Learning Intervention

Evaluation of the Raise Mentoring Program: Final Outcome Evaluation Report

Faculty of Education, The University of Melbourne

Prepared for the Raise Foundation

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ACKNOWLEDGEMENT OF TRADITIONAL OWNERS

The University of Melbourne acknowledges the Aboriginal and Torres Strait Islander traditional owners of the unceded land on which we work and learn. We pay respect to the Elders, past and present, and the place of Indigenous knowledge in the academy.

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List of Abbreviations

Abbreviation	Full text
ACARA	Australian Curriculum, Assessment and Reporting Authority
BBBS	Big Brother Big Sister
HKM	Healthy Kids Mentoring
SBM	School-Based Mentoring

Executive Summary

Key message

- Compared to similar students, those who participated in Raise had better help-seeking behaviour, connectedness, and peer support immediately at the end of the program.
- There were promising findings in relation to social-emotional wellbeing and school engagement.
- Student gender and difficult life event influenced the outcomes for Raise students.

Confirmed Student Outcomes

Small benefit	Medium benefit	Large benefit
	Connectedness Peer Learning Support	Helping-Seeking Behaviour

Promising Student Outcomes

Optimism Resilience	Engagement School belonging	

Introduction

The independent outcome evaluation of the Raise Mentoring Program was conducted by the University of Melbourne, Australia's highest ranked university, as commissioned by the Raise Foundation, using funding provided by the Australian Federal Department of Health.

This final report details the process and outcomes of the evaluation of the Raise Mentoring Program. The main aim of the Raise Mentoring Program is to improve outcomes in resilience, school belonging, hope for the future and help seeking for young people at risk of disengagement from education or poor wellbeing.

Aims and Objectives of the Evaluation

This evaluation aims to determine the differences in post-program outcomes between students who receive the Raise Mentoring program compared to a matched comparison group.

The primary outcome for the comparison was student help-seeking behaviour. This was prioritised after discussions with the Evaluation Advisory Group and Raise's Theory of Change, which determined it to be the key outcome which would be expected to change by the end of the program.

Raise's Theory of Change indicates that through changes in help-seeking behaviour, this would lead to improvements in our secondary outcomes of student well-being, school engagement and resilience.

Key Evaluation Questions

The key evaluation questions are:

- What are the outcomes of the program related to students:
  - help-seeking behaviour;
  - social-emotional wellbeing;
  - school engagement; and
  - resilience

- What are the student characteristics that are related to the outcomes we have observed?
- What are the student perceived enablers and barriers related to the outcomes of the program?

Methodology

Raise's Program Logic Model was utilised throughout the current independent evaluation.

A quasi-experimental design was employed to inform the benefits of the intervention compared to current practice and identify for whom and under what conditions the intervention is beneficial.

The evaluation comprised multiple components involving pre- and post-program surveys of the wider cohort's help-seeking behaviour, social-emotional wellbeing, resilience, and school engagement using validated measures. Qualitative survey data from Raise mentees was also collected.

Data collected by the evaluation team was supplemented with data collected internally and provided by Raise.

Overall, 75 schools were approached to participate, with 13 schools providing consent across 4 Australian states.

The final sample consisted of:

- 148 Raise mentees and 278 matched comparison students from the participating schools.
- 9 Raise mentees providing qualitative data about their experience.

Key Learnings

Program effectiveness

- Overall, there was statistically significant evidence that Raise mentees had better help-seeking behaviour, connectedness (feeling valued and supported) and peer learning support, when compared to the matched comparison group.
- There was a trend of findings benefiting Raise students above an effect size of 0.2, although not all were statistically significant.
- This magnitude of difference for wellbeing outcomes indicates a medium level of benefit, which has implications for long-term benefits.
- Those with low functioning in each domain at baseline were more likely to report improvements at follow up.
- Student gender and difficult life event at baseline showed evidence of influencing the degree of benefit for these students.
- Students who had difficult life events in the past month (such as financial difficulty, house insecurity) were less likely to report positive benefits.

Program experience:

- Raise mentees identified the opportunity to talk to someone about their issues, problems, and shared interests as the most significant benefit of participating in the program.
- Raise mentees suggested they may benefit if the program went for longer or had more contact points.

Recommendations

Recommendation 1: Use of existing and new mental health and wellbeing data to prioritise students:
Increase support for schools to use existing health and wellbeing administrative data (e.g. National Child Mental Health Check), to identify and prioritise students who are more likely to benefit from the program.

Recommendation 2: Further examining of why demographic variables are predictive of the changes observed Raise mentees:
Student gender and difficult life event influenced the outcomes achieved for these students. Consideration should be given as to why these differences occur, and whether this warrants adaptation to Raise.

Recommendation 3: Continue to build evidence base of the Raise Mentoring Program:
This is the first quantitative evaluation conducted by Raise by an independent team using a comparison group. The evidence for Raise could be further strengthened through either replication studies using a quasi-experimental approach (as used here) or via a larger, cluster randomised

controlled trial of the program. Pragmatic and financial implications of each approach should be used to inform how Raise continues to build its evidence. Given Raise has conducted strong internal evaluations for the past 15 years, the use of independent evaluations would be important to continue to build the evidence for the Raise Mentoring Program.

Recommendation 4: Consider ways to increase the reach and length of the program:
Given students reported a preference for increasing the length and/or quantity of the program, Raise should consider ways to enable this to occur. This would need identification of the barriers for expansion of all programs. For instance, training of existing school staff to deliver the program may increase the number of schools who can offer Raise instead of relying solely on external mentors. Another approach would be to consider a second year of enrolment, for students who may benefit from a second year in the program with a different mentor to help consolidate or extend benefits.

Learning Intervention

The Learning Intervention Academic Group brings together academics in Learning Interventions from a range of education focused contexts, including early years, primary, secondary, and tertiary settings and into adulthood. It is situated in the Faculty of Education (FoE, previously the Melbourne Graduate School of Education) at the University of Melbourne, which is the highest ranked university in Australia and 14th in the world, as per the Quacquarelli Symonds (QS) World University Rankings. The FoE is also the number 1 ranked faculty in Australia for Education, according to the Times Higher Education World University Rankings by subject 2024.

Report Overview

This independent evaluation was commissioned by the Raise Foundation (Raise), using funding from the Federal Department of Health, to examine the evidence of outcomes of the Raise Mentoring Program. The independent evaluation was intended to strengthen Raise's internal evidence base and identify opportunities for innovation to inform their monitoring and evaluation framework into the future.

This updated interim outcome evaluation report has been prepared for Raise and details the evaluation methodology, data and findings of evaluation questions and actionable insights and recommendations.

The overall report is structured in five sections, followed by the references and appendices.

- **Section 1 Evaluation Overview** provides a background to the Raise Mentoring Program, the purpose of the evaluation and the key evaluation questions/areas of investigation.
- **Section 2 International Review of the Evidence for School-Based Mentoring Programs for Adolescents** provides a succinct overview of current literature in this area.
- **Section 3 Methodology** presents the rationale and design of the evaluation, the sampling, data collection, and analytical methods.
- **Section 4 Findings** presents the evidence relating to the key evaluation questions.
- **Section 5 Discussion and Recommendations** concludes with an explanation of the findings and the resulting recommendations.

1. The Evaluation Overview

1.1 The Raise In-School Mentoring Program (The Evaluand)

The Evaluand for this project is the Raise Youth Mentoring Program (Raise Program). The Raise Program was developed by the Raise Foundation and aims to improve outcomes in resilience, school belonging, hope for the future and help-seeking for young people at risk of disengagement from education or poor wellbeing.

Raise work with each school's wellbeing teams to identify up to 15 students between the ages of 13 and 15 who will most benefit from the mentoring program. These students are matched with a volunteer mentor who has been recruited from the community and trained by Raise. Mentor training consists of eight online modules covering a range of topics including mentoring skills, mentor self-care and youth safety followed by six hours of group face-to-face training (either in-person or online) which provide practical skills and the opportunity to work through scenario-based activities. Each program is facilitated by a degree qualified Raise Program Counsellor, who is on-site for each mentoring session and provides additional supervision support to mentors at the conclusion of the mentoring session. The Program Counsellor matches mentors and students (mentees) based on their observations during an initial session called Jitters alongside mentee preference, amongst other factors. During the Raise Mentoring Program, the mentee and mentor work together through an evidence-informed curriculum over 23 weekly sessions which build practical skills, understanding and knowledge.

The Raise Mentoring Program has operated in Australia since 2008 and now operates in over 150 schools in all Australian jurisdictions (except for Tasmania and the Northern Territory). Raise conducts regular internal evaluation and has used these results, plus feedback and experiences of participants, to measure and improve the impact of their program. Raise have previously used a combination of internally developed measures and validated measures, such as the Children's Hope Scale (Snyder et al., 1997), Brief Resilience Scale (Smith et al., 2008), School Connectedness Scale (Resnick et al., 1997), and Growth Mindset Scale (Dweck, 1999). Raise's internal evaluations have shown positive benefits for mentees, with their 2023 evaluation finding statistically significant improvements in hope for the future, resilience, asking for help and school belonging for the whole mentee cohort.

1.2 Aims and Objectives of the Evaluation

The Raise Foundation sought an independent quantitative evaluation of the impact of the Raise Program to strengthen their evidence base and identify opportunities for innovation to inform their monitoring and evaluation framework into the future, using funding provided by the Australian Federal Department of Health.

The outcome evaluation was commissioned from the Faculty of Education at the University of Melbourne. The contract commenced in March 2022 with a project design and set-up phase, with data collection occurring during 2023 and concluding in December. This outcome evaluation aims to determine the differences in post-program outcomes between students who receive the Raise Mentoring Program compared to both matched cohort within schools, and all students in the same year level.

The scope of the evaluation sought by the Raise Foundation was to focus on the impact of the Raise Program on mentees, considering the following questions:

- Have the outcomes changed for the mentees?
- How have outcomes differed for different cohorts of mentees?

1.3 Key Evaluation Questions

In response to the scope of evaluation sought by the Raise Foundation and based on the program logic model the key evaluation questions are:

- What are the outcomes of the program related to student's help-seeking behaviour, social-emotional wellbeing, school engagement, belonging and resilience?
- What are the student characteristics that are related to the outcomes we have observed?
- What are the student perceived enablers and barriers related to the outcomes of the program?

2. International Review of the Evidence for School-Based Mentoring Programs for Adolescents

The following section provides a rapid review of existing research which has described the characteristics and outcomes of other school-based mentoring programs provided to adolescents in Australia and internationally. The purpose of the review was to inform the development of the evaluation of the Raise Mentoring Program through identifying potential theories of change for school-based mentoring programs, as well as key populations, characteristics and barriers that are likely to influence the theory of change. In addition, the review highlights the potential differences between the Raise Program and other evaluated school-based mentoring programs.

2.1 Overview of School-Based Programs

Student success is not only dependent on academic skills, but also social skills and emotional wellbeing (Claro & Perelmiter, 2022). Mentoring programs propose that adult role models can support youth to build strengths such as competence, confidence, and connection which can be preventive factors against school disengagement and misbehaviour (Claro & Perelmiter, 2022; Lerner et al., 2005).

School-based mentoring (SBM) programs have gained increasing popularity since the 1980s, largely due to their inexpensive implementation, ease of mentee recruitment, lower time commitment for mentors and promising social and academic benefits for students (Herrera & Karcher, 2014; Wood & Mayo-Wilson, 2012; Herrera, 2004). Positive student outcomes include improved academic performance, increases in confidence, resilience, connectedness, and perception of support (non-familial adult), along with reductions in school absenteeism and poor behaviour such as discipline referrals and school-related misconduct (Gordon, Downey & Bangert, 2013; Schwartz, Rhodes & Herrera, 2012).

Students are often referred for SBM by teachers due to behavioural or academic difficulties, allowing these programs to reach youth who are most in need of support (Randolph & Johnson, 2008; Wood & Mayo-Wilson, 2012). Additionally, SBM programs provide students with one-on-one or small group support, allowing for individualised student specific goals and outcomes.

Research highlights the importance of school-community partnerships, like mentoring programs, for their ability to provide and contribute to improvements in family and child wellbeing through the fostering of supportive relationships outside of the immediate family. Whilst many schools implement peer-to- peer mentoring programs internally, there is significant literature outlining the positive outcomes for students, especially males, where intergenerational, one-on-one youth mentoring programs are implemented (Raposa et al., 2019; Gwyther et al., 2019). Community led SBM programs implementing intergenerational, one-on-one mentoring often report stronger relationships between mentor and mentee, contributing to the longevity of experienced positive outcomes (Bayer et al, 2015; Raposa et al, 2019).

2.2 Characteristics of Individual School-Based Mentoring Programs

Mentoring programs can vary greatly, including length of programs and weekly contact time, content of mentoring session, mentor training and ongoing support, and outcome focuses of the program (Herrera, 2004; Randolph & Johnson, 2008; Raposa et al, 2019). Occurring typically at least once a week in a supervised school setting, mentoring activities can be structured to the specific goals of the program or up to the mentor-mentee pair including academic help, social activities, and school events support (Herrera, 2004; Randolph & Johnson, 2008).

An evaluation of the Big Brothers Big Sisters (BBBS) program implementations for students from Grade 3 to high school in the USA reported that 70% of mentors were spending half an hour to 1 hour a week with their mentees, whilst 20% reported spending between one to two hours a week. Session content also varied considerably with approximately 50% of mentors reported spending time assisting mentees with

homework, 85% reported spending time on social activities, and 33% reported that they attended school activities such as sport or extra-curricular events with their mentees (Herrera, 2004).

In contrast to the BBBS program, the Healthy Kids Mentoring (HKM) Program, designed for Grade 4 students, outlined that mentors and mentees would meet for one hour each week to cover four program components: relationship building, self-esteem enhancement, goal setting, and academic assistance building. HKM mentors received an initial training session and a program guidebook to refer for examples of activities (King et al., 2002).

The Building Positive Relationships mentoring program was designed to develop relationship skills in girls from Grade 3 to high school. This program was delivered in a group format and split by age groups, Grades 3-4, Grades 5-8, and high school aged girls. Session lengths also varied by age group with Grades 3-4 meeting for one hour sessions, Grades 5-8 for 1.5 hours, and high school aged group for 1.5 hours. The content of the sessions also differed by age group to align with their developmental periods (Westhues et al., 2001).

2.3 Immediate and Long-Term Outcomes Achieved via School-Based Mentoring Programs

Due to the variability in SBM programs, significant findings have been inconsistent and can depend on selected outcomes; however, overall positive student outcomes are consistently reported (Raposa et al., 2019; Gwyther et al., 2019; Claro & Perelmiter, 2022).

An evaluation of the BBBS program (USA) found that surveyed mentees reported significant positive changes in peer network (i.e., *ability to make friends*; r^2 = .48); social skills (i.e., *mentees' confidence in communicating with other and ability to express their feelings*; r^2 = .29); positive classroom behaviour (i.e., *following class rules and working without disturbing others*; r^2 = .55); and attitudes towards school (i.e., *how much mentees' liked school*; r^2 = .39) for mentees' who continued sessions for over 9 months, compared to mentees who engaged with their mentor for 6 months or less (Herrera, 2004). Alternatively, a systematic review and meta-analysis found that evidence from eight SBM studies did not improve academic achievement, school attendance, mentee behaviour, and/or psychological outcomes (Wood & Mayo-Wilson, 2012).

A national study in the USA of 255 mentoring programs suggested that SBM programs are most likely to affect school connectedness (*measured by school efficacy and bonding*); however, effect sizes varied between studies from *d* = .38 to *d* = -.35 (Herrera & Karcher, 2014). The HKM program also reported significantly higher school connectedness (*measured by relationship with teachers and attitude towards school*) and family connectedness (*measured by feeling close with their family*) in mentored students compared to non-mentored students at post-test. Furthermore, mentored students were significantly less likely to have physically fought with a peer and more likely to talk with their parent/guardian to seek advice when they have problems, however effect sizes for later observed outcomes were not reported (King et al., 2002).

A meta-analysis that examined effects of SBM programs on emotional wellbeing found that mentees experienced greater decreases in internalising behaviour, as measured by negative affect (*d* = 0.20), than externalising behaviour. Additionally, mentoring programs were found to have a positive effect on emotional wellbeing (*d* = 0.34) and self-esteem (*d* = 0.45), suggesting that mentoring relationships may influence emotional wellbeing though self-esteem (Claro & Perelmiter, 2022).

Long-term student benefits from SBM programs included increases in likelihood of high school completion and further vocational education, gaining employment and progressing career paths, and increased likelihood of good social-emotional and mental health such as lower levels of depression, higher self-

esteem and confidence, greater resilience and feeling more connected and supported (Raposa et al, 2019; DuBois et al, 2002).

2.4 Differences in Outcomes Based on Student Characteristics

When examining which groups may best benefit from SBM programs, past literature has largely examined the age and gender of mentees (Herrera, 1999; Herrera et al., 2007; Karcher, 2008). Herrera et al. (2007) found that females showed improvements in academic performance and decreased school misbehaviour, which was not observed in males. Karcher (2008) further examined age and gender together and demonstrated positive outcomes in young males and teenage females, but negative outcomes in high-school aged males. It was suggested that younger youth may view focused attention from an adult positively and feel proud to have a mentor, however, high school adolescents may feel embarrassed by the additional attention due to the stigma of mental health interventions (Herrera, 1999; Karcher, 2008).

Raposa et al. (2019) reported that male and female students were often referred to SBM programs for different reasons, which may also impact on student outcomes. Female students were more commonly referred because of "relational challenges with their primary caregivers", whilst males are most often referred from "the need for a male role model" (Raposa et al. 2019). Raposa et al.'s (2019) meta-analysis of SBM program outcomes suggested that female students were more "prone to co-rumination in their dyadic relationships" than male students. This excessive focus on close relationships may reduce the positive effects of SBM programs for female students and further highlight why programs with a higher male student population often report statically significant stronger effects sizes for male students ($B = .38$, $t = 2.19$, $p < .05$) (Raposa et al. 2019; Splendelow et al. 2017; DuBois et al. 2011).

High risk environmental factors such as poverty, socioeconomic status and neighbourhood violence may also affect SBM program outcomes, with afflicted students benefiting by SBM programs more than their peers (Raposa et al. 2019). However, no significant differences in effect sizes were reported based on indicators of youth risk at baseline (i.e. percentage of single-parent households, students receiving free or reduced-price lunch, below grade level academic performance and exhibiting problematic behaviours) (Raposa et al. 2019).

Literature also indicates that program length, mentor support, and mentor-mentee match characteristics may influence the outcomes on SBM programs (Herrera, 2004; Wood & Mayo-Wilson, 2012). Studies have consistently found that most benefits of SBM are not observed until at least one year of regular mentoring sessions (Herrera, 2004; Lee & Cramond, 1999). Furthermore, higher levels of mentor training and support have been associated with relationship quality and match continuation (Herrera et al., 2007). Teacher support to mentors has also been linked with higher engagement and increased benefits in mentees (Herrera et al., 2008).

Two aspects of mentor-mentee match characteristics – relationship quality or "closeness" and match suitability – are commonly reported to influence SBM program outcomes (Grossman & Johnson, 1999). Mentees who have a closer and more supportive relationship with their mentors were more likely to have positive outcomes (Herrera et al., 2007). Additionally, matching by gender and/or race was not found to impact the closeness of the mentoring relationship; however, mentors and mentees who shared interests had greater engagement and were more likely to demonstrate better outcomes (Herrera, 2004; Sipe 1996).

2.5 Enablers and Barriers Related to Student Outcomes

In a report of the BBBS program, mentors reported enablers and barriers related to student outcomes. These included the agency providing additional support/structure for match interactions, ensuring a consistent meeting place, facilitating structured communication with teachers throughout the duration, and providing feedback and advice from parents to create longer and stronger mentor-mentee relationships (Herrera, 2004).

Mentor characteristics have also been reported to impact the effectiveness of SBM programs outcomes, including mentor age and profession/experiences (Raposa et al., 2019). Programs that had more male mentors ($B = .36$, $t = 2.14$, $p < .05$) and mentors who worked "within helping professions" ($F(1, 289) = 5.49$, $p < .05$; $B = .25$, $t = 2.34$, $p < .05$) reported higher program impact effect sizes (Raposa et al. 2019).

2.6 Known Evidence Gaps in School-Based Mentoring Programs

While evaluations of SBM programs are plentiful, there is a lack of recent rigorous, systematic program evaluations on the effects of mentoring, especially outside of the USA (or USA populations), where most evidence for SBM largely originates. As context (including school culture, support from teachers/school staff, relationship models of mentoring style) can influence the impact of mentoring program outcomes and can vary considerably between schools, the generalisability of already mixed results cross-culturally remains ambiguous. While there are meta-analyses of SBM programs, effects sizes of outcomes are often inconsistent between studies and vary depending on the program's outcome domains (Raposa et al., 2019; DuBois et al., 2011).

2.7 How Does Raise Compare to Previously Evaluated Interventions?

Raise is an Australian school-based mentoring program that has been in operation since 2008 and is currently endorsed by two Australian state departments of education. Unlike previous evaluated SBM programs, Raise is a curriculum-based mentoring program that focuses on delivering early intervention whilst engaging and fostering relationships with schools, forming "part of a wider referral system". Guided by wellbeing support principles such as the Australian Wellbeing Framework, Raise is a research-driven, evidence-informed 6-month program that regularly collects data and undergoes internal evaluations to continue to improve the program and its impacts. Unlike many SBM evaluations outcomes, Raise focuses on outcomes on three levels: school, mentor, and mentee (Year 7-9 high school student).

Additionally, Raise provides comprehensive mentor training in mentoring skills, youth safety and the Raise curriculum. Qualified professional counsellors provide ongoing support and weekly training, guidelines for mentoring sessions and enables ongoing one-to-one support with the same mentor throughout the entire program. This ensures that the program can provide individual solutions for the needs of each student.

To continue to improve evaluative evidence, Raise has initiated an external evaluation of the impact of their SBM program on student outcomes, addressing the lack of rigorous SBM program evaluation within Australia.

3. Methodology

3.1 Evaluation Design

The current evaluation aimed to independently examine the evidence of impact on student outcomes of the Raise Youth Mentoring Program in the schools that participated in this evaluation.

A quasi-experimental comparative pre-post design was employed to achieve the evaluation objectives. This design involved the collection of data to establish a comparison group, enabling an understanding of the counter-factual to be established. Therefore, the project compared the student-reported outcomes between those who received the Program against matched students who did not receive the Program.

Matching occurred based on baseline student and school demographics of students who received the program, but also considered the response rates across the evaluation data collection periods. Therefore, matching of the cohort occurred after all data collection had occurred.

See Figure 1 for an overview of the design approach.

The evaluation was comprised of a number of components involving baseline and follow-up cohort survey data collection, Raise mentee pulse surveys, Raise mentor surveys, and interview and focus group data from Raise mentees, as well as the analysis of additional mentee and mentor survey data provided by Raise.

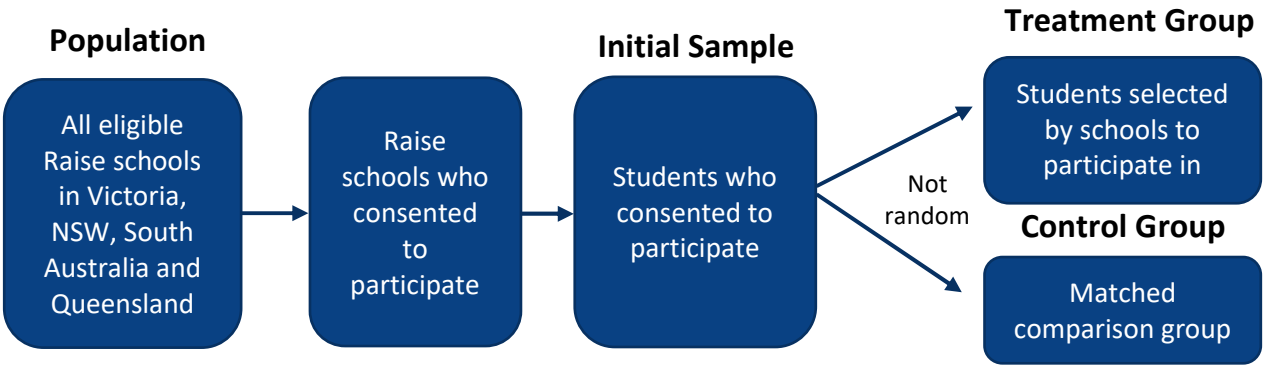

Figure 1. Overview of the Raise evaluation design.

3.2 Measures

The measures chosen for this evaluation were based on their alignment to Raise's Theory of Change and Program Logic (see Appendices A and B), discussions with Raise stakeholders, as well as a review of published research papers which have evaluated mentoring programs delivered in secondary school settings for students with increased school disengagement risk factors. Where possible, Raise's own internal data collection measures were aligned with evaluation data collection measures. This enabled further analyses to occur that included both sets of data.

3.2.1 Demographic Information

Student demographic questions were designed to better understand for whom and under what conditions the intervention is beneficial, given Raise's desire to understand whether differing characteristics affect program outcomes for mentees. These questions were in alignment with the Australian Curriculum, Assessment and Reporting Authority's (ACARA) agreed Student Background Characteristics, specifically with regards to gender and language other than English spoken at home. A question about Aboriginal and/or Torres Strait Islander status was initially included but was removed to avoid further delays in ethics and

departmental approval processes (see section 3.3). The following student demographic information was collected:

- Year level (Year 7/Year 8/Year 9/Year 10)
- Gender (Male/Female/Other/Rather not say)
- Whether the student was born in Australia (Yes/No)
- Whether the student speaks a language other than English at home (Yes, mostly/Yes, sometimes/No)
- Who the student lives with (One parent/Both parents/Carer or guardian/Other)
- Whether the student is a person with disability (Yes/No/Rather not say)
- Whether the student is a carer for family or friends with disability, a health condition or mental illness (Yes/No/Rather not say)
- How many school days the student was absent in the past two weeks (Free text)
- Whether the student has experienced any difficult home or personal events (Yes/No) and if so, the impact of these on their ability to engage in school activities (None of the time/A little of the time/Some of the time/Most of the time/All of the time)

3.2.2 Help-Seeking Intentions

General Help-Seeking Questionnaire (Deane et al., 2001)
The General Help Seeking Questionnaire (GHSQ) assesses formal help-seeking intentions for nonsuicidal and suicidal problems using a matrix design. In this evaluation, only the questions for nonsuicidal problems were used and the measure was adapted for relevancy to an adolescent population by removing husband, wife, and de-facto as examples of intimate partners (in Question A). Ten items rated on a 7-point Likert scale from 1 (extremely unlikely) to 7 (extremely likely) were presented to students, with higher scores representing higher intentions of seeking help.

Wilson et al. (2005) used an 18-item version of the GHSQ with a sample of Australian public high school students (aged 12-19 years) and found that the GHSQ is a flexible measure of help-seeking intentions applicable across a range of contexts. The survey has also been used as part of the Longitudinal Study of Australian Children, a federally funded project since 2014, as well as by the Federal Department of Health in various data collections with adolescents. The scale is considered reliable, with a Cronbach's alpha of .70 and test-retest reliability assessed over a three-week period being .86 (Wilson et al., 2005). Convergent and divergent validity of the GHSQ were also supported, with intentions to seek counselling correlating positively with prior mental health experiences, and negatively with self-reported barriers to seeking professional help (Wilson et al., 2005).

Raise-Developed Help-Seeking Questions
This measure was adopted from Raise's own internal surveys, to further understand student's general help-seeking confidence. Three questions were presented on a 4-point Likert scale from 1 (never) to 4 (always), with higher scores representing higher help-seeking confidence.

- Do you feel able to trust adults who can help when you need it?
- Do you feel able to ask for help from others when you need it?
- Do you feel like you know where to get help when you need it?

3.2.3 Social-Emotional Wellbeing

EPOCH Measure of Adolescent Wellbeing (Kern et al., 2016)

The EPOCH Measure of Adolescent Well-being (EPOCH) measures interpersonal and intrapersonal characteristics in young people (aged 10-18 years) that might foster wellbeing and physical health in adulthood. It utilises a 5-point Likert-type scale with 20 items across the five subscales of engagement, perseverance, optimism, connectedness, and happiness, yielding a range of 5-20 on each, with higher scores representing higher wellbeing. Happiness did not align with Raise's Theory of Change and was therefore not utilised in this evaluation. However, it remained in the survey as advice from the measure developer advised that removing it from the way the tool is presented may negatively influence the validity of the other domains captured in the survey.

Evidence for the EPOCH measure is drawn from ten samples of adolescents from the US and Australia (N = 4,480). Internal consistency estimates (alpha) range from 0.74 to 0.92 (Kern et al., 2016). Across 3-week, 4-month, and 2-year, 9-month intervals, test-retest reliabilities range from 0.23 to 0.71 (Kern et al., 2016). Scale scores have shown expected significant relationships with existing measures and unidimensionality was established using confirmatory factor analysis (Kern et al., 2016).

Short Warwick-Edinburgh Mental Wellbeing Scale (Stewart-Brown et al., 2009)
The SWEMWBS is a short version of the Warwick-Edinburgh Mental Wellbeing Scale (WEMWBS), which was developed to enable the monitoring of mental wellbeing in the general population and the evaluation of projects, programmes and policies which aim to improve mental wellbeing. Seven of the WEMWBS's original 14 statements that focus on functioning rather than feelings are used in the SWEMWBS. These positively worded statements are rated based on the respondent's experiences over the past two weeks on a 5-point scale from 'None of the time' to 'All of the time'. Scores range from 7 to 35, with higher scores indicating higher positive mental wellbeing.

The SWEMWBS has been validated for populations of young people aged 15-21 (McKay & Andretta, 2017; Ringdal et al., 2018). While the test-retest reliability of the SWEMWBS has not been reported for most populations, the WEMWBS test-retest reliability within 7-8 days after first completion was moderate in a UK population of 13- to 16-year-olds (Clarke et al., 2010). Likewise, one-week test-retest reliability of the WEMWBS was high in a UK population of university students (Tennant et al., 2007).

3.2.4 School Affective and Cognitive Engagement

Student School Engagement Measure (Hazel et al., 2013)
The SSEM was developed from a model of student school engagement, comprising aspirations, belonging, and productivity. The SSEM has 22 items across three factors: aspirations (4 items), productivity (12 items), and belonging (6 items). The survey uses a Likert-style scale ranging from 1 (Strongly disagree) to 10 (Strongly agree). Scores from all items are combined to get an overall engagement score, with higher scores indicating greater engagement.

The SSEM was validated with data from 396 eighth graders in an urban school district in the US by Hazel et al. (2013). Structural equation modelling showed that the SSEM model fit the data well, had good reliability for the three factors, and was predictive of district-identified risk factors and state standardized academic assessment results. Cronbach's alpha for the three empirical factors ranged from .83 for belonging, to .92 for productivity (Hazel et al., 2013). Another study (Hazel et al., 2014) found strong and significant positive correlations (.80) between the SSEM and the 2 measures of engagement (the School Engagement Measure and the Student Engagement Instrument) and a weak but significant positive correlation (.35) between the SSEM and a measure of life satisfaction (the Student Life Satisfaction Survey). These findings support the use of the SSEM as a valid measure of adolescents' engagement with school.

Student Engagement Scale – Peer Support for Learning (Appleton et al., 2006)
The Student Engagement Scale (SEI) is a self-report survey measuring student's engagement at school, with the Peer Support for Learning (PLS) subscale specifically measuring psychological engagement in school.

The SEI – Peer Support for Learning subscale has 7 items that are rated on a 5-point Likert scale, from 'Disagree a lot' to 'Agree a lot'. It is scored by adding all items together, resulting in a possible score range from 7 to 35, with higher scores indicating higher levels of engagement.

Appleton et al. (2006) reported an internal consistency coefficient alpha of .82 for the Peer Support for Learning subscale and demonstrated the construct validity of the six subscales using a confirmatory factor analysis. Betts et al. (2010) confirmed evidence of the validity of all subscales except extrinsic motivation. Engagement subscales correlate with measures of academic performance and behaviour, demonstrating criterion-related validity through positive relationships with grade point average and reading and mathematics achievement, and negative relationships with frequency of suspensions. The instrument has been used in several research studies on engagement in school (Reschly et al. 2008; Lewis et al. 2009).

3.2.5 Resilience

Brief Resilience Scale (Smith et al., 2008)
The Brief Resilience Scale (BRS) assesses the perceived ability to bounce back or recover from stress. This scale was developed to assess a unitary construct of resilience, including both positively and negatively worded items. The BRS has six items rated on a 5-point scale from 'Strongly disagree' to 'Agree'. It is scored by reverse coding the three negatively worded items and then finding the mean score of all six items, resulting in a possible score range from 1 to 5, with higher scores indicating higher resilience.

The BRS has demonstrated good internal consistency, with Cronbach's alpha ranging from .80-.91, and test-retest reliability, with an intra-class correlation of .69 for one month and .62 for three months (Smith et al., 2008). A review found it to be among the resilience measures with the best psychometrics (Windle et al., 2011). Although it was developed for an adult population, it has been used with children to measure their resilience (e.g. Sharma & Nagle, 2018).

Table 1. Alignment between evaluation questions/outcomes and data collection activities.

Key Evaluation Outcomes		Domain	Key Evaluation Questions			
			What are the outcomes related to student's help-seeking behaviour?	What are the outcomes related to student's social-emotional wellbeing, school engagement and resilience?	What are the student or mentor characteristics that are related to the outcomes we have observed?	What are the student perceived enablers and barriers related to the outcomes of the program?
Student demographics		Student/mentor characteristics			x	
Collected at pre and post Raise delivery	**General Help-Seeking Questionnaire**	Help-seeking	x			
	Raise-developed Help-Seeking Questions	Help- seeking	x			
	Short Warwick-Edinburgh Mental Wellbeing Scale	Wellbeing, school engagement and resilience		x		
	EPOCH Measure of Adolescent Wellbeing	Wellbeing, school engagement and resilience		x		
	Student School Engagement Scale	Wellbeing, school engagement and resilience		x		
	Student Engagement Scale – Peer Support for Learning	Wellbeing, school engagement and resilience		x		
	Brief Resilience Scale	Wellbeing, school engagement and resilience		x		
Mentee 'Pulse' surveys		Student/mentor characteristics			x	
Mentor surveys		Student/mentor characteristics			x	
Raise administrative data		Help-seeking Wellbeing, school engagement and resilience Student/mentor characteristics	x	x	x	
Mentee qualitative perspective data		Enablers and barriers				x

3.3 Ethics and State Approvals

Ethics approval was sought from the University of Melbourne's Human Research Ethics Committee (HREC) in October 2022 and was granted in December 2022 (HREC #2022-24962-35335-3). Individual state-based education department approval was then required before school recruitment could commence. The National Application Form, a single form for applying to conduct school-based research in more than one Australian jurisdiction, was completed and individually submitted in January 2023 to each governmental education department in jurisdictions the Raise program operates in. This included the Australian Capital Territory, New South Wales, Queensland, South Australia, Victoria, and Western Australia. Each jurisdiction assesses applications to conduct research in its school sites according to their own research approval guidelines, although they apply broadly similar criteria. A process of feedback, revision and resubmission was therefore followed with each jurisdiction as required. Feedback received and implemented generally related to clarification of evaluation methodology, mechanisms to identify and support students experiencing distress, and clarifications to study consent documents.

The earliest approval was approximately five weeks after application submission, and the latest was approximately 13 weeks after application submission. Feedback was received from the Australian Capital Territory at a stage deemed too late to be worthwhile implementing, given the small number of eligible Raise schools in the jurisdiction. Western Australia was the first jurisdiction to provide feedback and request revisions to the research application. However, they only provided an update in November 2023 due to their own internal staff shortages, which they had raised during the initial application process.

Final approval was granted by the following states:

- New South Wales
- Queensland
- South Australia
- Victoria

It is important to note that there were a number of research restrictions that limited the scope of the approved data collection. Most states did not allow the collection of student's personal information from the school prior to the student consenting, and restricted what student information was able to be collected once they had consented. For instance, asking students if they identify as Aboriginal and/or Torres Strait Islander was flagged by multiple states as requiring further advice or approval from their First Nations departmental areas. To avoid further delays to state-based approval and commencement of data collection, the question was therefore removed from the cohort survey. Many states also do not allow researchers to incentivise student participation. However, a cohort-level report of student wellbeing was able to be provided to schools at follow-up to incentivise their engagement and encouragement of student participation. Table 2 contains a summary of the states enforcing each research restriction.

Table 2. Research restrictions by state

State	Identifying First Nations students	Incentivising students
New South Wales		X
Queensland	X	X
South Australia		
Victoria	X	X

3.4 School Recruitment

Schools were eligible to participate in the study if they had been implementing the Raise Program for at least one year, a decision made through consultation with Raise and the Evaluation Advisory Group. This was to avoid an additional level of burden for schools with a new relationship with Raise, and because

Raise's experience indicated that schools needed a year to properly understand the Raise Program and to readily identify which students may benefit from participation.

Three online school information sessions about the independent evaluation were hosted by the Raise Foundation on 8th December 2022, 28th February 2023, and 9th March 2023. The University of Melbourne evaluation team attended these sessions to present information about recruitment and data collection and to answer questions from schools. As these sessions occurred prior to receiving state-based education department approval for the evaluation, an online Qualtrics form was set up where schools could submit an Expression of Interest (EOI) in participating in the evaluation. Twenty-five schools completed the EOI form. When the relevant state approval was received, these schools were emailed a letter including the Plain Language Statement and consent form for the evaluation, which was then followed up with a phone call and subsequent reminders.

In addition to the EOI schools, the Raise Foundation identified 50 further schools appropriate to contact about the evaluation. This resulted in a total of 75 schools across the four states being contacted by the University of Melbourne to determine their interest in participating in the independent evaluation. Schools were contacted via phone, which was followed up with an email including information about the evaluation if the school's contact was unavailable, followed by multiple reminders. Raise State and Program Managers were also engaged by the Raise Foundation to support the evaluation and liaised with and sent information to eligible schools.

Many schools were not responsive to contact, particularly those who did not submit EOIs. Reasons cited by responding schools who declined to participate were predominantly around a lack of capacity within the school to facilitate the cohort-wide survey, but also included concerns about the potential for additional surveys for Raise mentees to be burdensome and impact their experience in the program. One school consented to participate but later dropped out due to not having originally realised the cohort-wide scope of the survey. Discussions with Raise around recruitment were ongoing at meetings and regular updates were provided to Raise via email to facilitate support from Raise State and Program Managers. Ultimately, 13 schools consented to participate in the independent evaluation prior to the baseline survey (See Table 3).

At follow-up data collection, schools who had initially expressed interest but had either indicated a lack of capacity at that time or dropped off communications were reapproached either via email or phone call to invite them again to participate. Only one additional school responded and consented to participate, but later dropped out due to being unable to run the survey past their region's Legal Branch in time.

Table 3. Consented independent evaluation schools.

State	Number of schools
South Australia	1
Victoria	4
New South Wales	7
Queensland	1

3.4.1 Delays in Approval Processes

Delays in the approval process impacted the lead-in time for the evaluation team to liaise with schools and increase engagement, even with support from the Raise Foundation in disseminating information and Expression of Interest processes. While the process of seeking approval from a Human Research Ethics Committee and from the relevant state education department can naturally be time-consuming (Thomas,

2009), these timelines were significantly affected by ongoing COVID-19 impacts. The Victorian Department of Education's Research in Schools and Early Childhood (RISEC) was suspended during the COVID-19 pandemic and was still suspended in January 2023, requiring an exemption process for approval. The Western Australia Department of Education flagged delays in their research approval process due to reduced staff capacity also resulting from COVID-19 lockdowns. After providing feedback required to progress the application, the Western Australian Department of Education only contacted the evaluation team in November 2023 – 10 months after the initial application.

The evaluation team submitted applications addressing all feedback and revisions as promptly as possible and, in collaboration with the Raise Foundation, leveraged the Department of Health funding and existing relationships with state education departments to ensure that approvals were received as soon as was possible.

3.5 Challenges in Evaluation Recruitment

The challenges of engaging adolescents in school-based research, as experienced in this evaluation, have been well documented in published literature through both research and experience (Bonnell et al., 2018; Trimmer et al., 2020; Hatch et al., 2023; Thomas, 2009). Such challenges include difficulties accessing schools, low staff buy-in and low student survey response rates, which result from a consistent lack of capacity in schools, often complex ethics approval processes or procedures, and approvals and engagement from gatekeepers. These challenges with school-based research engagement have only been amplified since the COVID-19 pandemic (Waechter et al., 2023) likely due to increased school burdens, often reduced school capacity and delays in gatekeeper approvals. The Raise Foundation also reported difficulties engaging with their school key contacts and surveying mentees in 2023, both more broadly and with some of the specific evaluation schools.

Eligible Raise schools in this evaluation were all public schools which can be particularly difficult to access, as researchers are required to go through multiple gatekeepers before approaching students. These gatekeepers can include the Human Research Ethics Committee, relevant state education departments, school principals and other staff (Bonnell et al., 2018). A high level of necessary yet difficult gatekeeping was noticeable in the evaluation, such as reports from some schools that they were passing the online survey to their Legal or Information Technology branches for approval before allowing students to complete it. This was despite the survey having received state education department approval and the school having already consented to participate. This resulted in one school dropping out of the evaluation, as they could not seek the relevant advice within the provided timeframe.

The response rate of schools consenting to participate in the evaluation once contacted was also low, despite frequent and varying communications from the evaluation team. This may be attributable to low capacity in schools, where teachers have continued to feel stressed and burnt out since COVID-19 (Kotowski et al., 2022). Even when schools consented to participate, some changed their mind when they received the survey or completely disengaged from contact, which often happens in research – an experience detailed by Australian researcher Nicholas Flegg (Trimmer et al., 2020). Some schools that did remain consented and engaged in the evaluation found fulfilling their participation commitment difficult, another regular occurrence in research due to time and resource constraints and competing priorities (Hatch et al., 2023). To address these limitations, it has been recommended that survey-based research methods should align with school priorities and be led by schools and tailored to their timetable and resources (Hatch et al., 2023). The objectives of this research were naturally aligned to the priorities of eligible schools, given they had already been implementing the Raise Program. The evaluation's methodology also followed these recommendations by allowing schools to flexibly distribute surveys in a way and at a time that best suited them.

Finally, there were some challenges with student response rates, even once schools had consented and were engaged. Required opt-in consent procedures used in the evaluation are known to yield much lower

response rates than those using passive or implied consent (Thomas, 2009). Furthermore, it was reported by some school staff that adolescents in the control condition did not see the value of committing their time to surveys due to not being involved in the Raise Program. This is where school engagement was particularly crucial, as the most engaged and keen evaluation schools had the highest consent rates. While the evaluation team attempted to minimise these difficulties and maximise participation by advising on multiple occasions that schools provide time and encouragement to students in a wellbeing or homegroup period to complete the survey, final consent numbers from some schools indicated that this was likely not provided. Similarly, there were difficulties engaging Raise mentees to consent in focus groups or interviews where access to the students was only possible via student-supplied school email, as per ethics and education department approvals (see 3.3). As a contingency plan, qualitative questions about mentee experiences of the Raise Program were incorporated into the follow-up survey. Intended interview questions were provided in an additional optional online REDCap survey.

3.6 Data Collection

3.5.1 Cohort Surveys

Surveys were provided to consenting students pre (baseline) and post (follow-up) the Raise Mentoring Program, using the measures outlined in 3.2. See Appendix C for the cohort surveys.

Baseline Survey
The baseline survey was conducted from May to June 2023, to measure student outcomes prior to commencement of the Raise program.

Schools were provided with a written piece to place in their newsletter to publicise the study to parents and a poster to publicise the study to students. Surveys were built into the University of Melbourne's REDCap, a secure web platform for building and managing online databases and surveys. Schools were provided with a general online survey link and QR code to the online survey, to distribute to all students in the cohort. This led students through the study's Plain Language Statement before obtaining their consent and providing them with the opportunity to complete the baseline survey. It was recommended that schools provide a wellbeing or homegroup period time for students to complete the survey. Schools that provided this time and had leadership who saw the value of having comparison cohort data had the highest survey response rates. Some key contacts at schools raised difficulties with providing this time and engaging students in a non-compulsory survey, particularly those who were not selected for the Raise Program and had no vested interest. Ongoing contact was made with schools who communicated such difficulties to assist with problem-solving and to increase their understanding of the evaluation and its objectives to promote engagement, including reminders of the cohort-level wellbeing report incentive.

Students were required to self-identify as mentees who had been selected for the Raise Mentoring Program in 2023. This was due to the restriction of student information collection prior to the initial survey. Students who indicated that they were participating as mentees were not required to re-answer questions they had already been asked in Raise's own internal surveys.

As required by certain states, students were identified as distressed if they answered 'Yes' to having experienced any difficult home or personal events and answered 'Most of the time' or 'All of the time' to the follow up question as to the degree that these issues have impacted their ability to engage in school activities. These students were either contacted and provided with contact information for relevant support services or re-identified to the school principal for follow-up.

Follow-Up Survey
The follow-up survey was conducted from October to November 2023, to measure outcomes after conclusion of the Raise program.

Students who had consented to and completed the baseline survey and provided their email were emailed a unique link to their follow-up survey. Students received two reminder emails in the subsequent two weeks if they had not completed their survey. Students who had not provided their email were mailed a letter via the school with a unique QR code and access code to their follow-up survey. Schools were again provided with a general survey link and QR code to facilitate participation of any additional students who did not participate in the initial survey, or those who had difficulty accessing their individual links. Schools also received reminder emails and it was again recommended that they encourage students to complete the survey during a dedicated wellbeing or homegroup period time. The same process was followed as in the baseline survey for supporting students identified as distressed. At the conclusion of this data collection to thank schools for their participation, schools were mailed cohort-level reports of student wellbeing based on the EPOCH measure.

3.5.2 Pulse Surveys

Pulse surveys (see Appendix D) were conducted to track mentee outcomes and engagement with the program to determine impact on outcomes. These pulse surveys were mailed to schools in hard-copy format individually addressed to mentees. This was to simplify distribution by Program Counsellors, who were engaged by Raise to facilitate this data collection during program time. Data was manually entered into REDCap when surveys were returned via pre-paid mail satchels.

Pulse surveys were initially intended to be conducted monthly. However, concerns were raised by school key contacts and Raise Program Counsellors during the first two pulse surveys about feedback received from both mentees and mentors about this frequency and the challenges of motivating mentees to complete multiple surveys. It was therefore decided that only one further pulse survey would be distributed, to focus on where mentee outcomes were tracking at the midpoint of the program. This resulted in a maximum of three pulse surveys.

The pulse surveys collected demographic information from mentees including their date of birth, year level and gender. Mentees were asked how many Raise sessions they had attended in the past four weeks, and whether they had to match with a different mentor during individual mentoring time. At the third midpoint survey, only mentees were asked to answer whether they had experienced any difficult home or personal events (Yes/No) and if so, the impact of these on their ability to engage in school activities (None of the time/A little of the time/Some of the time/Most of the time/All of the time), as per the cohort surveys.

Mentees were then asked to indicate on a 5-point Likert scale (from ‘not at all’ to ‘always’) how much they agreed with the following statements about their relationship with their mentor:

- I feel safe with my mentor
- My mentor helps me to share my problems
- My mentor helps me come up with ideas to my problems

Additionally, mentees were asked to indicate on the same 5-point scale how much they agreed with the following statements related to the outcomes of the evaluation in the previous month:

- I am finding the Raise program useful for me
- I feel that I really belong in my school
- I can bounce back quickly after hard times
- I feel hopeful about the future
- I am able to seek help from others when I need

Schools were mailed physical copies of pulse surveys individually addressed to each Raise mentee. Nine schools facilitated completion of and returned at least one pulse survey via post.

3.5.3 Mentee Perspectives

Mentees were asked open-ended questions about their experiences in the Raise program at the end of the follow-up survey (see Appendices B and E). These questions asked about benefits and negatives of participating in Raise, as well as the mentee's engagement with their mentor.

Mentees were also asked on the follow-up survey whether they were interested in hearing more about opportunities to further provide their experience in participating in the Raise program. Seven mentees indicated their interest and were offered the opportunity to participate in either a focus group or interview. These mentees were not responsive to contact or follow-up emails and were instead offered the opportunity to answer the questions via a second online survey (see Appendix G). These questions focused on the enablers and barriers for mentees to program participation and any changes they had seen in themselves. Two mentees consented to participating and completed the additional survey.

3.5.4 Raise Administrative Data

The evaluation measures informed the measures used in Raise's survey design for 2023, with mutual measures being the Raise-developed help-seeking questions, the perseverance, optimism, and connectedness scales from the EPOCH, and the BRS. This provided the opportunity to utilize Raise datasets. Raise therefore provided demographic information and all survey data for mentees and mentors at consenting evaluation schools to supplement the evaluation dataset.

It is important to note that these responses were not collected for research purposes as they are part of Raise's standard evaluation data collection for their own internal use, which may involve sharing with key stakeholders. Raise's data collection process was different to the evaluation's, with mentees provided with Raise Program time to complete internal surveys in the presence of the Raise mentors, as opposed to the opt-in process during class or a student's own time for the evaluation surveys. Therefore, it is likely that the two different approaches to data collection may be influenced by different types of bias (e.g. selection bias for the evaluation cohort, response bias for the Raise collected data).

It is also important to note there was a difference in how the three help-seeking questions were asked. Specifically, the response option for Raise involved a 5-point scale (Almost Never, Sometimes, Often, Very Often, Almost Always), while the evaluation collected data on a 4-point scale, as outlined (see 3.2.2). The evaluation was decided in consultation with Raise where their internal data would be transposed as follows:

- Raise's *Almost Never* (1) to the Evaluation's *Rarely* (2)
- Raise's *Sometimes* (2) and *Often* (3) to the Evaluation's *Sometimes* (3)
- Raise's *Very Often* (4) and *Almost Always* (5) to the Evaluation's *Always* (4)

Given this discrepancy, responses to these three questions were collected from mentees at follow-up on the 4-point scale through the evaluation's data collection process, in addition to Raise's internal data collection.

3.6 Data Management

3.6.1 Missing Data

Missing data is common in research and evaluation projects, particularly when reliant on self-report and when time to complete data collection activities is not explicitly provided or supported. Data may be absent due to three overarching factors:

1) Missing completely at random (MCAR) is the most stringent assumption, suggesting that the absence of a data point is entirely unrelated to both observed and unobserved data.
2) Missing at random (MAR) is a more realistic assumption than MCAR, indicating that the reason for a data point being missing can be explained by the observed data.
3) Missing not at random (MNAR) implies that the missingness is influenced by the unobserved values.

When encountering missing data, it is crucial to refrain from excluding instances that lack information (analyses conducted after such exclusion are referred to as complete case analyses). Multiple imputation is a method that replaces missing values with plausible numbers. These numbers are generated based on the distributions and correlations of the observable variables in the dataset.

The several imputation method is distinct from single imputation methods as it involves filling in missing data several times, with numerous feasible values calculated for each missing value. Employing several plausible values enables a precise assessment of the uncertainty associated with predicting the potential missing values, hence preventing the generation of misleading accuracy (which can occur with single imputation). Multiple imputation is a statistical technique that yields precise estimates of quantities or relationships of interest. These include treatment effects in randomised trials, sample averages of specific variables, correlations between two variables, and their respective variances. By doing this, it decreases the likelihood of reaching incorrect positive or negative conclusions.

For this dataset, multiple imputation involved the generation of 50 imputed datasets. These datasets each uniquely predicted the value of the missing variables, with analyses taking into account the mean of these datasets. Specifically, multiple imputation was focused on imputed outcome scores, based on variations in baseline scores for each individual variable.

3.6.2 Establishing the Matched Comparison Group

A comparison analysis was conducted between students who receive the Raise intervention and a matched cohort. Propensity score matching (PSM) is a statistical technique used to evaluate the causal effect of a certain programme by comparing outcomes between individuals who received the program and those who did not, while accounting for potential confounding variables.

PSM mitigates the selection bias that could exist in non-experimental data. Selection bias occurs when units (such as individuals, communities, or schools) are not randomly assigned to a certain programme, and the units that choose or are able to participate differ systematically from those that do not. A propensity score is a calculated likelihood that a unit would be subjected to the programme, based on the unit's observed characteristics. The propensity scores of all units in the sample, including both beneficiaries and non-beneficiaries, are utilised to form a comparison group for measuring the program's impact. Raise mentees were matched against students in the same cohort who did not/have not participated in the Raise program and were matched on similar baseline demographic information (i.e., age, gender, etc.).

Matching occurred between Raise participants and non-Raise participants at participating evaluation schools. To identify matching variables, univariate analyses were conducted of baseline demographic variables to predict variables related to Raise participation. Matching was eventually conducted with 1 nearest, with a caliper of 0.003. The identified matching variables were student experience of a difficult life event, student gender, and student disability, as well as EPOCH subscores of perseverance, optimism and connectedness, and help-seeking behaviour. The variance after matching is present below.

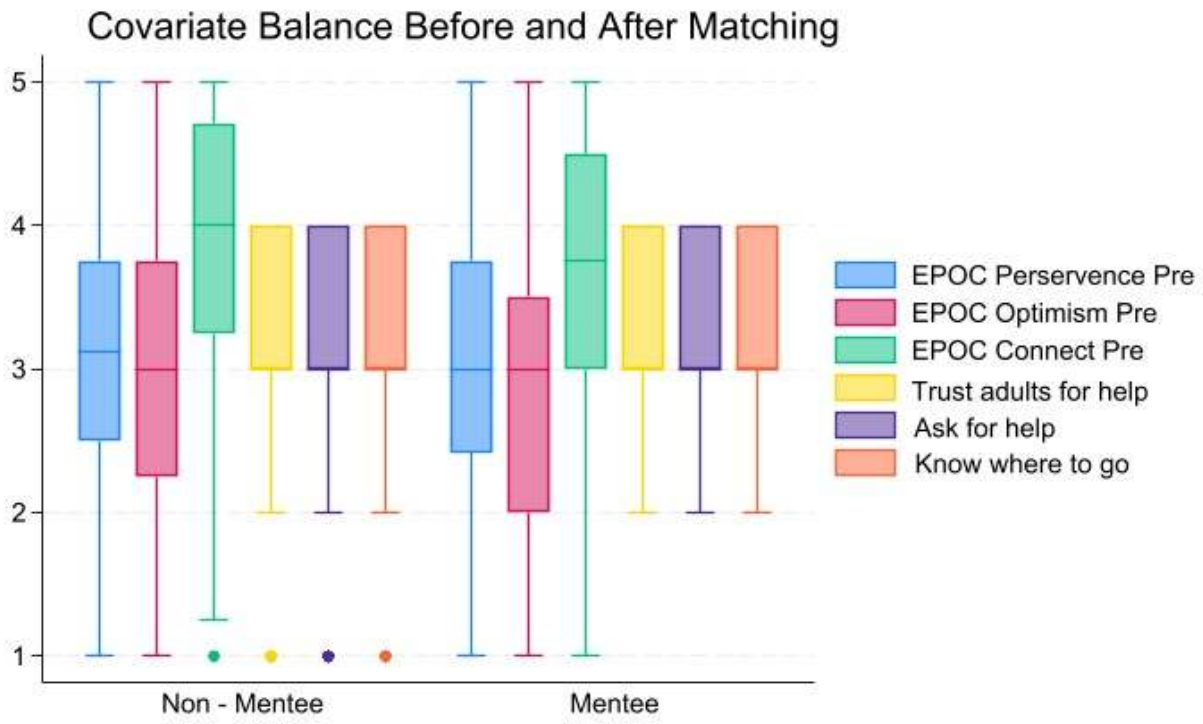

Figure 2: Covariate after matching.

Overall, 148 Raise mentees were matched with 276 non-Raise students based on demographic variables. However, as matching is based on baseline characteristics, the final sample size for each outcome data at follow up is presented in the following table.

Table 4. Sample size of each outcome after matching

	Mentee Data	Non-mentee Data
Know where to go	100	99
Ask for help	101	98
Trust in adult	101	99
EPOCH – Engagement	17	95
EPOCH – Perseverance	102	95
EPOCH – Optimism	95	83
EPOCH - Connectedness	95	83
SSE School Aspiration	17	101
School Belonging Scale	95	88
Brief Resilience Scale	94	83

3.6.1 Defining Students who were 'Low' at Baseline

For each outcome, students who were defined as 'low' were established to examine whether these students had a differential change in their outcomes. Established risk categories and cut points for measures were used to define students as 'low', when these were available.

For measures without established cut points, the bottom third of scores for all participants who completed the baseline survey were defined as 'low'. It was decided to establish these cut points with all participants, as only using the matched cohort would less likely reflect an at-risk group of the general student population.

3.7 Minimum Detectable Effect Size for the Sample Size

Given the lower-than-expected recruitment and data collection, the final sample size varied depending on outcome collected.

Given this, we conducted power calculations before the analyses to determine the minimum detectable effect size of the sample.

- For EPOCH School Engagement, which had the lowest sample size, there were 112 students overall with outcome data. Assuming a power of 0.80% and a statistically significant alpha of 5%, our final sample size had a **minimum detectable effect size of 0.28**. Therefore, it is more likely findings below this effect will not be statistically significant. However, as described in Section 3.9 below, an effect size of 0.27 could be defined as a large effect size which has significant, long-term implications for student psychological outcomes.
- For outcomes such as EPOC Connectedness, which included data collected by Raise to supplement the evaluation data, the sample size was higher at 199. For these outcomes, based on the assumption of 80% power and statistically significant alpha of 5%, the sample size enabled a **minimum detectable effect size of 0.20**. Based on Section 3.9 below, this effect size would meet the criteria for a medium effect size for student psychological outcomes.

3.8 Interpretation of Effect Sizes

In research aiming to understand the outcomes of an intervention, a traditional approach is to focus on whether outcomes are statistically significant or not. However, increasing attention has been paid to the magnitude or size of the difference as opposed to the significance of effects. Effect size refers to the magnitude of the relation between the independent and dependent variables and is separable from statistical significance, as a highly significant finding could correspond to a small effect, and vice versa, depending on the study's sample size. For intervention research, Cohen's d is often used, with benchmarks indicating an effect size up to 0.2 as small, up to 0.5 as medium and over 0.8 as a large effect size difference.

However, more recently it has been recognised that the magnitude of difference between groups that can be expected should be aligned to the intervention's theory of change, but also to the specific domain which is being examined. More recently, Funder & Ozer (2019) found that for intervention research in psychological domains, the following benchmarks should be used:

- 0.05 indicates an effect that is very small for the explanation of single events, but potentially consequential in the not-very-long run.
- 0.10 indicates an effect that is still small at the level of single events, but potentially more ultimately consequential.
- 0.20 indicates a medium effect that is of some explanatory and practical use, even in the short run, and is therefore even more important,
- 0.30 indicates a large effect that is potentially powerful in both the short and the long run.
- 0.40 or greater, in the context of psychological research, is likely to be a gross overestimate that will rarely be found in a large sample or in a replication.

Therefore, our interpretation of the outcomes of the Raise Mentoring Program are based on these guidelines, given the psychological outcomes being measured and the type of intervention. In addition to statistical

significance, we will also examine the overall pattern of difference between the groups, reflecting the limitation of the small sample size in detecting statistically significant findings.

In the findings, these benchmarks are presented to help with interpretation, with red indicating a 0 effect size, orange an effect size of 0.2 and green representing an effect size of 0.4.

3.9 Considerations for Testing of Multiple Outcomes

Examining various outcomes in a study endeavour presents a distinct array of obstacles that researchers must meticulously tackle to uphold the integrity and dependability of their results. An important concern arises from the phenomenon of alpha inflation, in which the likelihood of committing a Type I mistake escalates with the testing of each successive result. This phenomenon of inflation arises due to the fact that conventional standards of statistical significance (e.g., $p < 0.05$) are predicated on the premise of a solitary test.

However, when several outcomes are examined concurrently, there is an increased probably that positive findings will be identified by random chance. Therefore, there is an increased likelihood of identifying inaccurate positive results or relationships that are not genuine, potentially resulting in incorrect conclusions about an intervention's benefits. Another problem pertains to the possibility that some outcomes will interact with others, or that there is overlap in the domain which is being measured.

Therefore, a common approach to examine multiple outcomes is to consider the patterns across multiple outcomes, patterns between measures which capture similar domains in addition to the final p-value and confidence intervals.

Although the evaluation was guided by an established theory of change and program logic, it is also likely that not all outcomes will demonstrate statistical significance at the same timepoint and some changes in outcomes may be predicted by changes in other outcomes which occur earlier. For instance, students may need to have improved connectedness before changes in school engagement occur. More importantly, examination of the outcomes should consider the pattern of findings and whether outcomes in similar domains are showing findings in the same direction.

3.10 Data Analysis

All analyses were conducted in STATA v17, with all output provided as Supplementary files 01 to 07.

The baseline characteristics of the participants and schools are summarised by group. Categorical variables are presented as frequency and proportion values in each category. Continuous variables are presented by means and standard deviations (SDs) for unskewed data, medians and IQRs for skewed data, and ranges.

In these analyses, the primary analysis was by intention to treat and included all matched participants where outcome data were available. The analysis used a multivariate linear regression to examine continuous outcomes, whilst logistic regression was used for categorical data. The analysis output is presented as part of Appendix H.

3.10.1 To Examine Differences in Change Scores

Outcomes for the intervention students were compared with students in the control group. Both unadjusted and adjusted analyses were conducted. For adjusted analyses, two models were conducted. The first was based only on change scores, whilst the second also included student gender and family difficult event. Clustering of students within schools was accounted for in the models using regression techniques that respect these structures. Findings between groups were presented as mean differences with 95% CIs, p values and Cohen's d effect sizes.

3.10.2 To Examine Differences at Follow Up

Both unadjusted and adjusted analyses were conducted. For adjusted analyses, two models were conducted. The same approach to above was used, except model one accounted for baseline scores. Clustering of students within schools was accounted for in the models using regression techniques that respect these structures. Findings between groups were presented as mean differences with 95% CIs, p values and Hedge's g effect sizes.

4. Findings

4.1 Demographic Information

The overall flow of participants is presented in the participant flow chart below.

At baseline, 418 students consented to participate and at least partially completed the survey, with 41 enrolled in Raise. These responses were across nine schools, with the remaining four schools either nonresponsive or communicating difficulties with survey facilitation or student engagement. At follow-up, 365 students completed the survey, with 28 enrolled in Raise. This was comprised of 137 students who had completed the baseline survey, representing a follow-up rate of approximately 32.78%. An additional 311 new students completing the follow-up survey (10 Raise mentees and 211 non- mentees). These responses were across eight schools, with the remaining five schools nonresponsive to multiple points of email and phone contact. This meant that overall, data from 751 unique students was available. This was supplemented with Raise administrative data for 124 additional mentees. After matching on baseline variables, there were 148 Raise mentees and 276 matched comparison students.

It is important to note that Raise administrative data provided a response option of 'Rather not say' when asking if mentees had experienced a difficult event. A conservative approach was taken for analysis, where students who selected this response option were categorised as having answered 'No/Rather not say'.

Tables 3 and 4 contain demographic information for the whole recruited cohort and matched cohort respectively. The *P* value shows the difference between mentees and non-mentees at baseline.

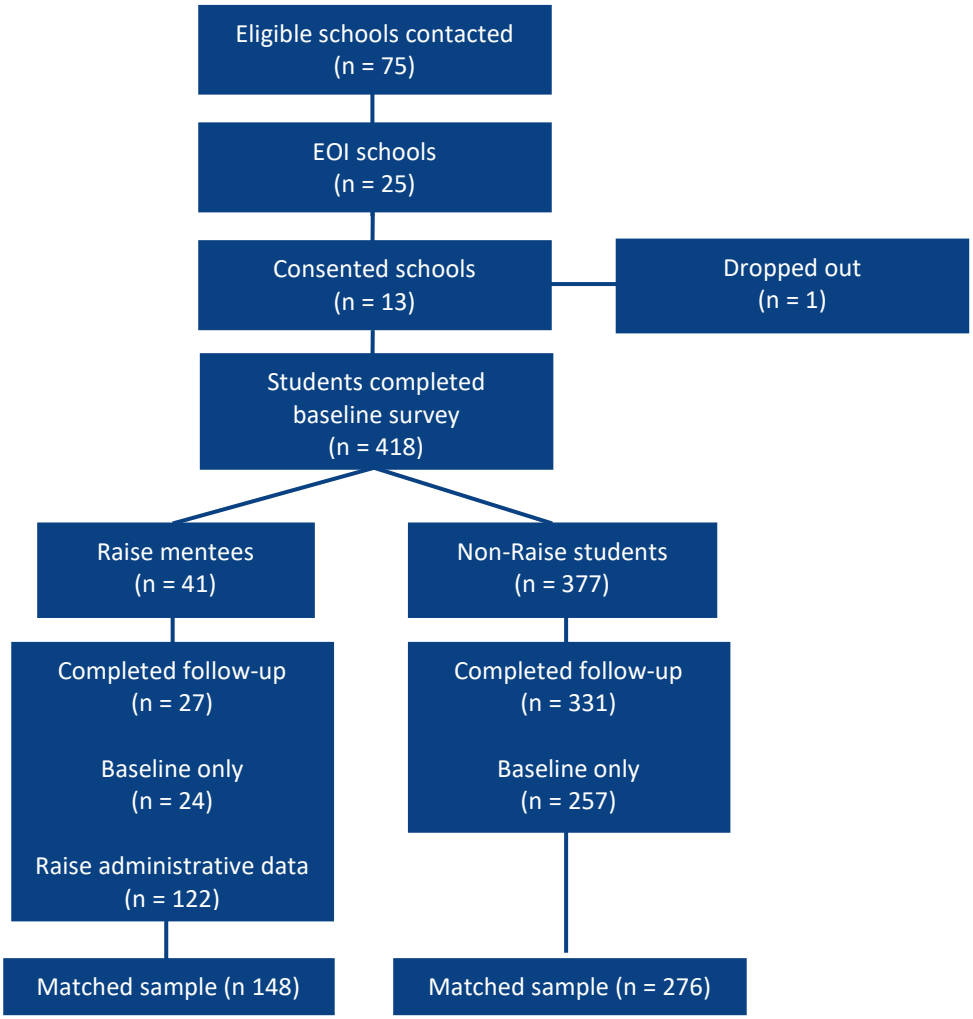

Table 5. Recruited cohort demographic information

	Mentee		Non-Mentee		
	N	%	N	%	P-value
Year Level					0.000
Year 7	11	6.92%	2	0.34%	
Year 8	95	59.75%	395	66.28%	
Year 9	45	28.30%	199	33.39%	
Year 10	8	5.03%	0	0.00%	
Gender					0.027
Male	66	41.77%	305	51.87%	
Female	81	51.27%	245	41.67%	
Other	8	5.06%	15	2.55%	
Rather not say	3	1.90%	23	3.91%	
Born in Australia					0.729
Yes	122	77.22%	460	78.50%	
No	36	22.78%	126	21.50%	
Speak a language other than English at home					0.362
Yes, mostly	39	24.68%	143	24.16%	
Yes, sometimes	45	28.48%	139	23.48%	
No	74	46.84%	310	52.36%	
Has a disability					0.707
Yes	9	5.84%	32	5.45%	
No	138	89.61%	518	88.25%	
Rather not say	7	4.55%	37	6.30%	
Lives with					0.000
One parent	52	33.12%	92	15.54%	
Both parents	91	57.96%	463	78.21%	
Carer or guardian	4	2.55%	9	1.52%	
Other	10	6.37%	28	4.73%	
Carer					0.001
Yes	49	31.82%	70	18.92%	
No	99	64.29%	263	71.08%	
Rather not say	6	3.90%	37	10.00%	
Experienced a difficult event					0.000
Yes	82	52.90%	110	29.49%	
No	73	47.10%	263	70.51%	
Degree of impact of the difficult event					0.037
None of the time	9	11.25%	11	10.09%	
A little of the time	16	20.00%	36	33.03%	
Some of the time	22	27.50%	39	35.78%	
Most of the time	24	30.00%	17	15.60%	
All of the time	9	11.25%	6	5.50%	

Table 6. Matched cohort demographic information

	Mentee	Non-Mentee

	N = 148		N = 276		
	N	%	N	%	P-value
Year Level					0.000
Year 7	11	7.38%	1	0.36%	
Year 8	95	63.76%	161	58.33%	
Year 9	43	28.86%	114	41.30%	
Gender					0.082
Male	64	42.95%	148	54.01%	
Female	75	50.34%	108	39.42%	
Other	8	5.37%	10	3.65%	
Rather not say	2	1.34%	8	2.92%	
Born in Australia					0.494
Yes	116	77.85%	221	80.66%	
No	33	22.15%	53	19.34%	
Speak a language other than English at home					0.002
Yes, mostly	35	23.49%	48	17.39%	
Yes, sometimes	45	30.20%	52	18.84%	
No	69	46.31%	176	63.77%	
Has a disability					0.886
Yes	9	6.04%	16	5.80%	
No	134	89.93%	246	89.13%	
Rather not say	6	4.03%	14	5.07%	
Lives with					0.000
One parent	49	33.11%	42	15.22%	
Both parents	85	57.43%	219	79.35%	
Carer or guardian	4	2.70%	1	0.36%	
Other	10	6.76%	14	5.07%	
Carer					0.000
Yes	48	32.21%	48	17.52%	
No	96	64.43%	198	72.26%	
Rather not say	5	3.36%	28	10.22%	
Experienced a difficult event					0.000
Yes	78	52.35%	78	28.26%	
No	71	47.65%	198	71.74%	
Degree of impact of the difficult event					0.031
None of the time	9	11.69%	8	10.39%	
A little of the time	16	20.78%	28	36.36%	
Some of the time	21	27.27%	27	35.06%	
Most of the time	24	31.17%	10	12.99%	
All of the time	7	9.09%	4	5.19%	

4.2 Changes in Student Outcomes

4.2.1 Help Seeking Behaviour

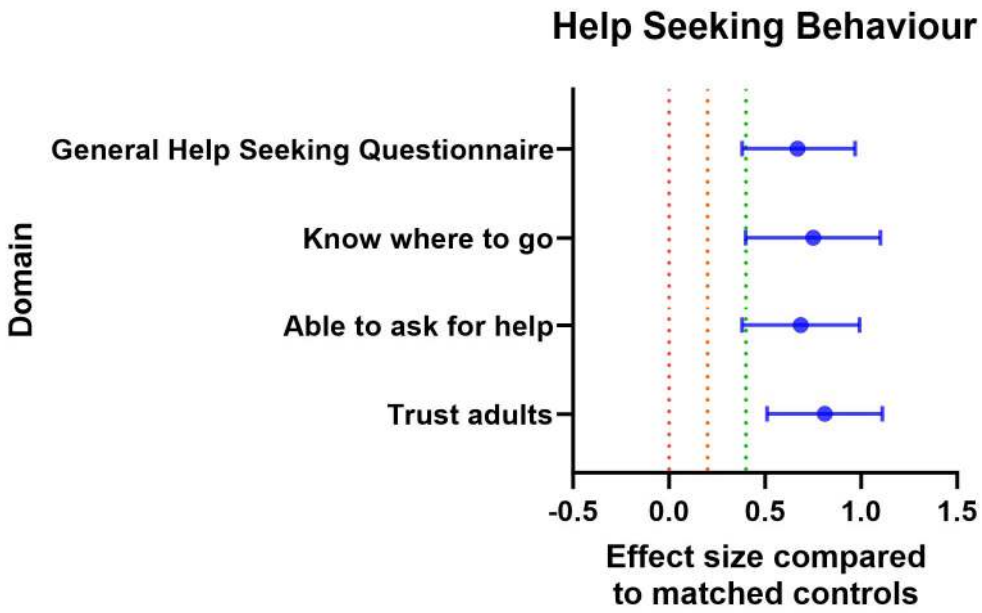

Figure 3. Effect size differences for help-seeking behaviour.

When examining help-seeking behaviour, there were consistent findings that Raise students had a statistically significant greater magnitude of change between the pre and post intervention time points. This ranged from a mean difference of 0.69 (95% CI 0.38 – 0.99) for being confident to ask for help when needed, to a mean difference of 0.81 (0.51 – 1.11) for being able to trust adults for help. Importantly, the findings were also confirmed by the validated General Health Seeking Questionnaire, which had an effect size mean difference of 0.67 (95% CI 0.38 – 0.97) between the two groups. These differences attenuated when accounting for difficult life event and student gender but remained statistically significant.

4.2.2 Changes in Student Social-Emotional Wellbeing

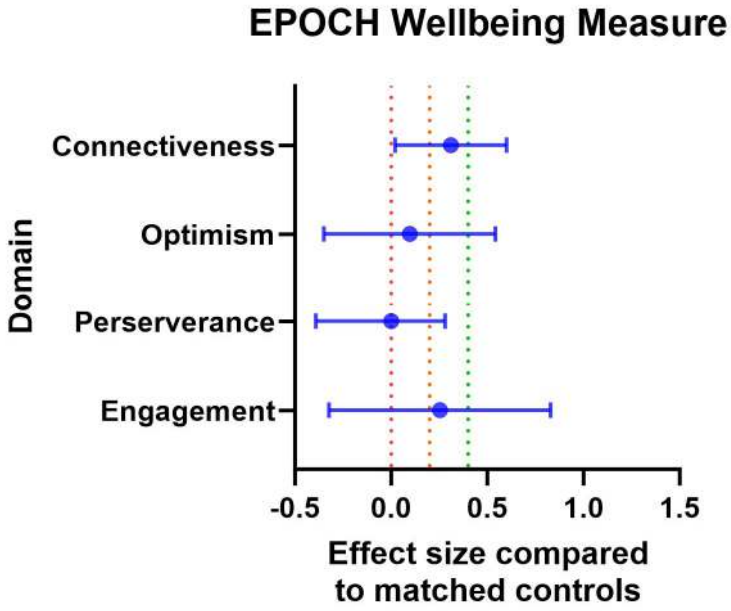

Figure 4. Effect size differences for the EPOCH measure.

Changes in student wellbeing were measured using the EPOCH, specifically the engagement, perseverance, optimism, and connectedness domains. In unadjusted analyses, there was a statistically significant difference between the Raise and matched cohort participants, with a mean difference effect size of 0.31 (95% CI 0.02 to 0.60). This finding provides evidence that Raise mentees reported having greater improvements in their connectedness, which EPOCH defines as feeling of supported and being valued by others. Although there were suggestions that Raise mentees have a greater magnitude of change in terms of optimism (effect size = 0.10, 95% CI -0.35 to 0.54) and engagement (effect size 0.25, 95% CI -0.32 to 0.83), these were not statistically significant.

4.2.3 Changes in Student School Engagement

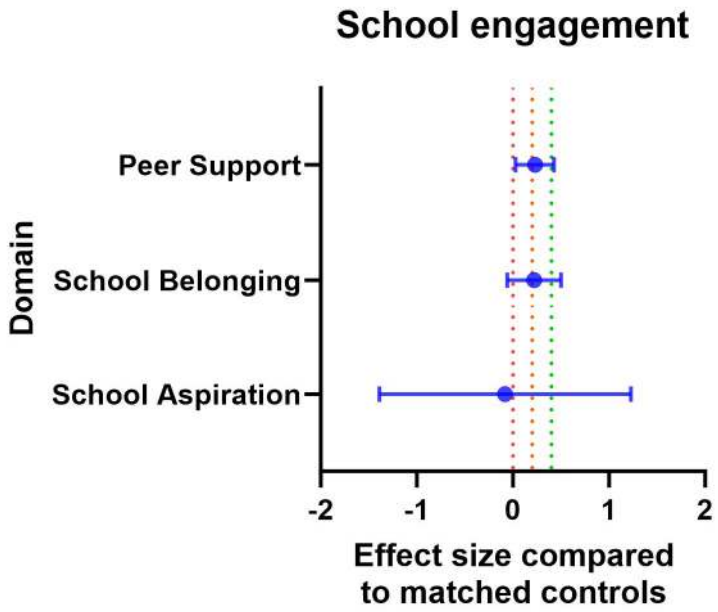

Figure 5. Effect size differences for school engagement.

Changes in student school engagement were measured using three different measures that captured school aspiration, belonging, and peer learning support. For the unadjusted analyses, there was only evidence for a statistically significant difference between Raise mentees and matched cohort students for peer support for learning. Raise mentees had a greater magnitude of positive change, with an effect size of 0.23 (95% CI -0.0.2 to 0.0.43) when compared to the matched cohort. Although school belonging had an effect size difference of 0.22, this was not statistically significant.

In addition, school aspiration, which is defined by how students feel about school, had minimal difference between the Raise and matched cohorts. Similar to above, it is important to note the smaller sample size for the school aspiration measure, with data only available for 17 mentees and 101 matched comparison students.

Overall, the findings suggest that there is evidence for Raise mentees reporting a greater change in peer learning support compared to their matched peers, with promising findings for school belonging.

4.2.4 Student Resilience

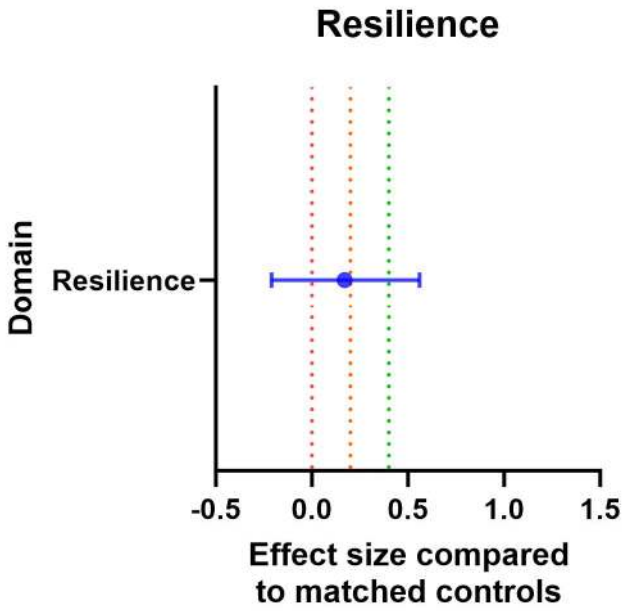

Figure 6. Effect size differences for student resilience.

The final domain examined was student resilience. Raise mentees had a greater magnitude of change when compared to the matched comparison (effect size = 0.17, 95% -0.20 to 0.56), but this difference was not statistically significant. This analysis was based on a cohort of 94 Raise mentees and 83 matched comparison students.

4.3 Differential Outcomes Based on Student Baseline Demographics

Additional analyses were conducted to examine whether baseline student demographics were associated with a differential effect on the observed outcomes. This analysis explored baseline demographics of child gender and difficult life event, which was determined via the consultation with the Evaluation Advisory Group.

As the analyses involved examining the interaction of the baseline variables and Raise allocation, this meant the sample was further divided along both baseline demographic characteristics (see Table 6). Despite the sample size, there was evidence for a statistically significant interaction for some of the outcomes.

For the General Help Seeking Questionnaire, there was evidence that female Raise students had a greater magnitude of benefit compared to those who did not identify as female. The comparison to females was used, as during consultation with Raise, it was signalled that female students may have different outcomes compared to other students. Although not statistically significant, this pattern of having at least an effect size greater than 0.2 difference was also seen for engagement and school aspiration. Inversely, those who did not identify as female had a pattern of greater improvement for optimism, school belonging, and resilience.

When examining students who had a difficult life event at baseline, there was statistically significant evidence that these students had a lower magnitude of change in terms of connectedness and school belonging. A similar pattern was also seen for general help-seeking and optimism. Although not statistically significant, these Raise students had a large magnitude of difference in engagement compared to Raise mentees who did not have a difficult life event at baseline.

Table 7. Differential effects for gender (female) and difficult life event.

	Female Mean diff (95% CI)	Difficult life event Mean diff (95% CI)
General Help-Seeking Questionnaire	0.34** (0.10 to 0.59)	-0.32 (-0.54 to -0.09)
Know where to go	-0.03 (-0.59 to 0.53)	-0.06 (-0.31 to 0.18)
Ask for help	0.00 (-0.69 to 0.70)	-0.16 (-0.55 to 0.24)
Trust in adult	-0.03 (-0.59 to 0.52)	-0.04 (-0.37 to 0.28)
EPOCH – Engagement	0.60 (-0.30 to 2.50)	0.75 (-0.24 to 1.75)
EPOCH – Perseverance	-0.10 (-0.56 to 0.38)	-0.17 (-0.73 to 0.38)
EPOCH – Optimism	-0.45 (-0.93 to 0.02)	-0.41(-0.98 to 0.14)
EPOCH - Connectedness	0.08 (-0.38 to 0.55)	-0.48 ** (-0.90 to -0.07)
SSE School Aspiration	0.96 (-1.99 to 3.91)	-0.04 (-2.10 to 2.01)
School Belonging Scale	-0.30 (-0.80 to 0.20)	-0.63** (-1.18 to -.07)
Brief Resilience Scale	-0.31 (-0.90 to 0.32)	-0.08 (-0.65 to 0.49)

** Statistically significant <0.05

4.4 Proportion of Students Showing Improved Scores

In exploratory analyses, we examined the proportion of Raise and non-Raise students whose outcomes had improved above an effect size of 0.1 between the two time points. Research has shown defining a change score as simply any improvement above 0 can lead to overestimation of benefits, as scores can increase by more than 0 (e.g. 0.05) simply due to the standardisation approach and range of schools. A similar limitation occurs when using the medium or mean score to define positive change. Therefore, the cut point of 0.1 was used to ensure that any improvements shown represent a substantial change, as well as accounting for potential influence of regression to the mean due to repeated measurements.

The differences in proportions between the Raise and non-Raise students are presented in Figure 6. Help-seeking items are not presented as these were measured via single Likert scales, which is not suitable for these types of analyses.

Similarly to above, although there appears to be a pattern that Raise students were more likely to have a score change of at least 0.1, only student connectedness had a statistically significant finding. However, Raise mentees had positive increased odds for improving scores, ranging from OR 0.95 for student mental wellbeing, to OR 2.65 for student connectedness.

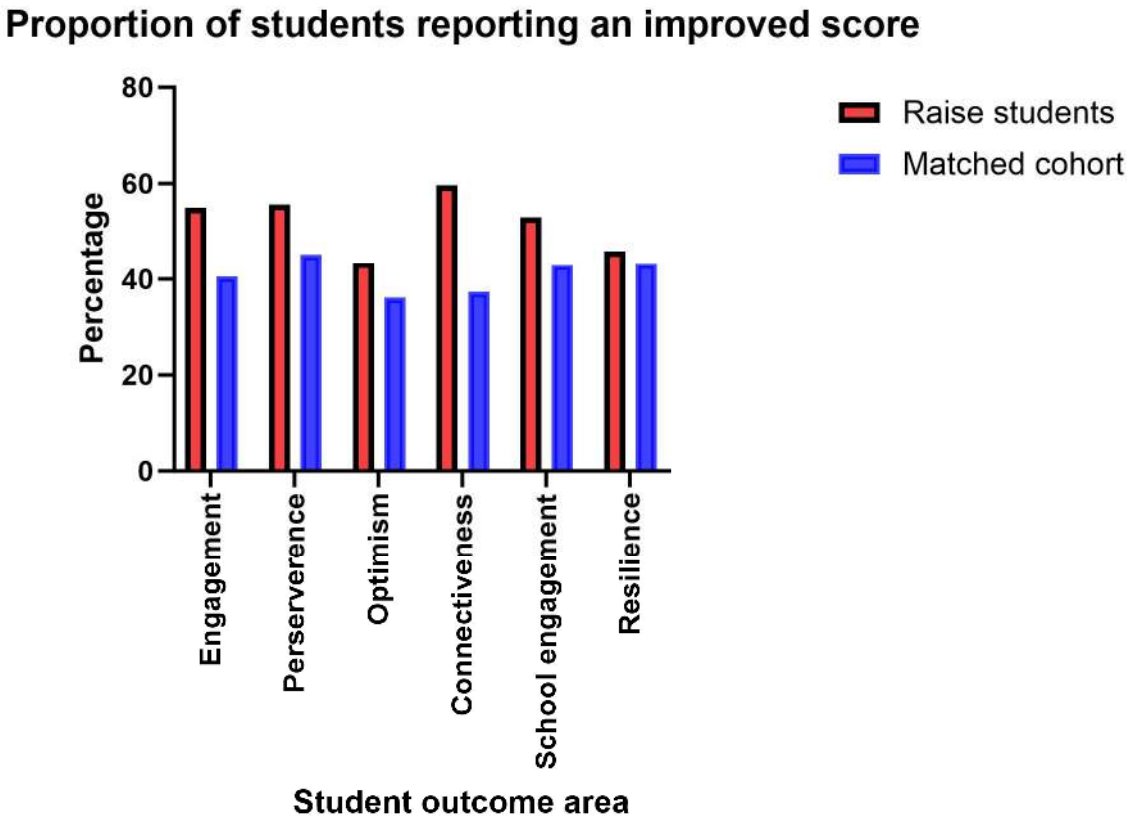

Figure 7. Proportion of students with improved scores.

Table 8. Odds ratio for mentee having an improved scores compared to matched non-mentees.

	Odds Ratio	95% CI	P-value
Engagement	1.67	0.86, 3.26	0.13
Perseverance	1.27	0.71, 2.25	0.40
Optimism	1.35	0.74, 2.46	0.31
Connectedness	2.62	1.38, 4.97	0.003
School engagement	1.39	0.49, 3.90	0.53

Resilience	1.83	0.97, 3.45	0.06
Mental well-being	0.95	0.32, 2.80	0.93

4.5 Changes in Student Outcomes for Those at Risk at Baseline

A previous internal evaluation conducted by Raise in 2020-2022 found that students who were at-risk in each outcome domain at program commencement had a statistically significant increase in their outcome scores at follow up. We aimed to replicate these findings for our cohort. A main different between the analyses presented here is that instead of using the mean as the cut point to define low and high student baseline outcomes, we have used the bottom third of all participants to define the low group. In examination of the differences in outcomes for those defined as low or not low at baseline, findings are presented in Figure 7 below. Furthermore, only the outcomes which were collected by both the evaluation and Raise are presented, due to the other outcomes having low sample sizes (N < 30).

Overall, the effect size mean difference suggests that Raise mentees had better change scores across all measures when compared to their matched comparisons. However, the differences were not statistically significant.

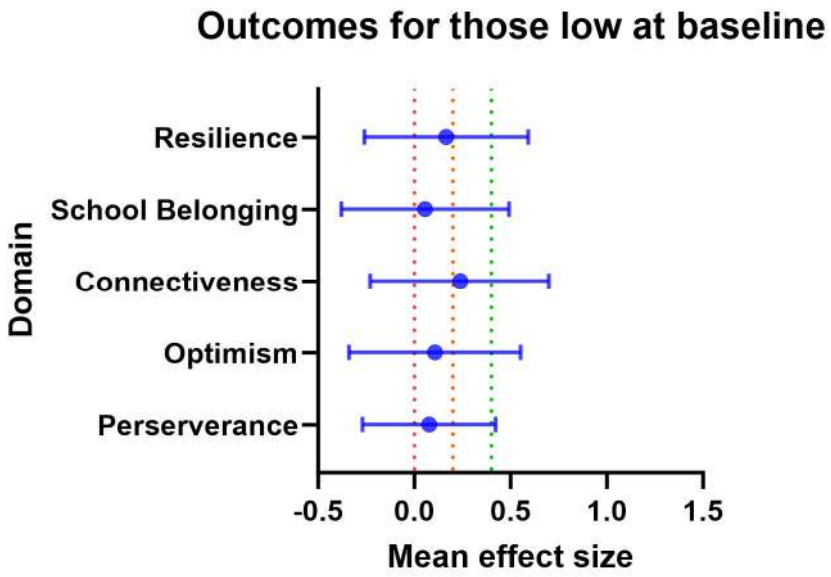

Figure 7. Differences for those low at baseline.

4.6 Student Perceived Enablers and Barriers Related to Outcomes

Raise mentees were asked about the benefits and negatives of participating in the program as part of the follow-up survey. Twenty-seven mentees answered these questions (see Appendix F) and survey responses were thematically coded.

One of the key benefits identified by mentees was the opportunity to talk to someone about their issues, problems, and shared interests (n = 15). From these responses, trust, feeling listened to and having a mentor that was not a medical professional were seen as enablers to mentees' ability to talk to their mentor.

> "I was able to trust my mentor and felt like I was able to improve some learning skills and had someone to talk to about my problems" (Mentee Survey Respondent).

All mentees, except one who didn't know, indicated that they had positive engagement with their mentor, which may have also supported their ability to talk about their issues and problems. Self-reflection and goal setting was seen by three respondents as the key benefit of the program.

> "help you set goals for the future" (Mentee Survey Respondent).

Other benefits included improved confidence, mental health and learning skills, as well as not going to class. Providing free food was identified as an enabler to participation.

When asked about the negatives of the program, 10 mentees identified feedback to be considered for improvement. The largest portion of these responses (three mentees) thought that the Raise Program was too short. One mentee found the initial settling in period to be difficult and another mentee found talking to a stranger difficult. Other negatives identified included missing out on core school subjects and the games at the start of the period not being enjoyable.

Two further mentees completed the intended focus group/interview questions via an additional online survey (see Appendix G). Both mentees spoke frequently about their confidence as being both a key takeaway from the program and a change they had noticed in themselves through participating in the Raise program. These mentees described themselves as engaged and noted that they had tried all activities provided. Both again reiterated that the best part of the program was getting to speak with their mentor. One mentee noted that they would not change anything about the program as it was all "fun and useful". The other mentee would change the duration of the program so that it would run until the end of the year.

5. Discussion and Recommendations

5.1 Summary of Findings

Key Findings

- Compared to similar students, those who participated in Raise had better help-seeking behaviour, connectedness, and peer support immediately at the end of the program.
- There were promising findings in relation to social-emotional wellbeing and school engagement.
- Student gender and difficult life event influenced the outcomes for Raise students.

The findings were presented to the Raise Foundation and Evaluation Advisory Group through a series of meetings to conduct sense-making activities. These aimed to determine whether there was anything unusual about the findings that required further verification, as well as understanding how findings might be similar or different to previous Raise evaluations. However, the final conclusions were based on the interpretation of the University of Melbourne Independent Evaluation team.

Overall, the findings from this evaluation provide promising, independent evidence that students who receive the Raise Mentoring Program have better outcomes at the end of the program when compared to their matched peers. Specifically, the statistically significant findings were for validated measures capturing help-seeking behaviour, students being valued and supported, and as having peer support for their learning.

Although the other outcomes were not statistically significant, evaluation of the effect size patterns found that all outcomes, except for student school aspiration and perseverance, trended towards positive outcomes for the Raise mentees compared to matched comparisons. Furthermore, similar positive patterns were demonstrated for those students who were low in each functioning domain at baseline. However, as described in section 3.9, the testing of multiple outcomes requires caution against focusing on the individual statistically significant findings due to the increased likelihood of false positive and negative findings being identified by chance. Despite this, there is a promising pattern of findings trending towards positive outcomes for Raise mentees compared to matched comparison group. This is particularly important given the guidelines by Funder & Ozer (2019) which found effect sizes between 0.2 to 0.4 to have long-term benefits for psychological based outcomes for interventions. However, the final sample size and wide confidence intervals do not fully confirm these outcomes. Therefore, replication of these findings is required to add further strength to the evidence of these benefits.

The findings from this evaluation build on the significant internal evaluations conducted by Raise over the past 15 years. Importantly, this is the first quantitative evaluation to be conducted at a national level by an independent organisation outside of Raise, and the first to use a comparison group to compare outcomes. As noted in the rapid review, there have been few school-based mentoring programs internationally which have aimed to evaluate findings using a comparison group.

The following high-level recommendations for future data collection have emerged from the conduct of the evaluation for the interim report:

5.2 Recommendations

Recommendation 1: Refinement of the mentee selection criteria, with a focus on identifying students who may experience the greatest benefit from the program

The findings suggest that students who are low in functional domains at recruitment may experience greater improvements and benefits through the Raise Mentoring Program. Therefore, it is recommended that Raise consider including data on student functioning as part of the mentee selection process, which

would enable schools to prioritise which students participate in the program. This would be particularly helpful for schools in which the number of potential Raise mentees is greater than the number of potential mentors available to support students. However, it is important to caution that the use of functional data should be used in combination with other key factors which align with Raise's intervention intentions. Given that this approach does risk missing young people who may benefit from the program but are high functioning or masking difficulties that would not be reflected in functional data, it would be important to further explore the specific domains that could be used or instead identify profiles to assess student's enrolment into the Raise program.

To be able to refine the selection approach, schools could be supported to use existing and/or emerging administrative data collection tools that enable them to identify which students are most likely to benefit from Raise. For example, the Australian government funded Mental Health Checklist is due to be available for all schools in Australia once developed. The tool is designed to provide a comprehensive, but simple, measure of domains which are known to negatively impact student mental health. Another example of existing data is South Australia's Wellbeing and Engagement Collection (WEC), which enables schools to track a range of positive and negative wellbeing dimensions through student self-report. This tool includes domains such as life satisfaction, optimism, and worries. In an initial scoping approach, Raise could examine what tools schools in each state are collecting and determine to what extent this existing data collection could be utilised by schools in their student selection process.

However, it is also accepted that the limitation of administrative data is that it may not always capture all domains which are important for a selection process. Therefore, another possibility is that Raise designs a specific selection tool which can be used by schools to select students to participate in the Raise Mentoring Program. This approach would enable Raise to include items to measure specific domains of student wellbeing that Raise will be specifically aiming to address through the program. This would increase the specificity of the selection process to potentially increase the benefits of the program.

Recommendation 2: Further examining of why demographic variables are predictive of the changes observed Raise mentees

In all the adjusted and interaction analyses, student gender (female, yes/no) and difficult family circumstances at baseline were commonly shown to be a predictor of student change outcomes for Raise mentees.

This suggests further research is required to examine the specific mechanisms for why these particular groups may have different outcomes compared to other students, and the extent these differences warrant consideration in how students are identified to participate in Raise or are supported during the program. For instance, although gender may result in some students receiving a higher benefit from the program, it would not mean that student gender should be part of the recruitment criteria. Instead, it would simply be an aspect of the program that females may be more likely to benefit more from the intervention. Furthermore, this difference may also be related to how Raise is implemented, with mentors being more likely to be female which may influence the benefits observed by students of other genders.

The benefits observed through Raise for students with a difficult family circumstance may not be as large because the family circumstances are beyond the scope of impact and influence of Raise. For instance, Raise does not address a student's exposure to negative life events. Instead, Raise supports the students at school. Therefore, the outcomes of these students are more challenging to shift in the absence of additional support that may be required within and outside of the school system to address the difficult life event more directly. The positive outcomes of Raise were still present when accounting for students who had a difficult life event, and outcomes were not negative for these students but were slightly attenuated.

Recommendation 3: Building on the promising independent findings to conduct robust, cluster randomised controlled trials

The promising findings suggest that Raise mentees have more positive outcomes compared to matched comparisons, although not all findings were statistically significant. The limited statistically significant findings may be related to the sample size which provided outcome data, although depending on outcome the minimum detectable effect size ranged from 0.2 to 0.28 between groups. There were a significant number of outcomes with effect sizes of between 0.20 to 0.25. It is also important to note that population-based interventions aiming to address student wellbeing outcomes often have effect sizes of below 0.25 in psychosocial outcomes.

However, the positive outcomes that were observed would suggest that Raise has met the criteria for 'Level 3 – High Confidence' in terms of evidence, according to the Australian Education Research Organisation evidence standards.

Australian Education Research Organisation

Level 3 High confidence

Research shows the approach *causes* positive effects.

What types of research fit within this level?	Research that meets the following criteria: • uses rigorous qualitative, quantitative or mixed methods that address issues like selection bias, history effects and maturation effects • uses outcome measures validated for the purposes of the study. This research does not necessarily prove the approach causes positive effects *in my context*. This is because there may be other factors in my context that mean the approach will not work as intended.
What features of research studies increase my confidence within this level?	The study corroborates findings from other studies conducted in many different contexts. The study measures change in outcomes over time. The study has a large sample size that is spread across more than one site. The study uses strategies that discount the possibility that effects are due to chance. The study compares one group that has been subject to the approach to another group that has not been subject to the approach. The study has been conducted by people or organisations independent of the developer of the approach. The study has been conducted recently. The study mitigates the likelihood that effects are simply due to the particular characteristics of those that participate in the study. The study discusses and/or tests the key contextual factors that may influence the effectiveness of the approach.

Figure 8: Australian Education Research Organization - Standards of Evidence

The promising findings from this evaluation would benefit from further independent evaluation using methods which also include a comparison group. Simply, this may require a replication quasi-experimental study, whereby the aim will be to determine whether the findings in this evaluation are replicable so as to increase the confidence in the findings.

Another approach would be for the Raise Program to be evaluated via a large-scale project that would meet the AERO criteria for 'Level 4 – Very High Confidence'. It is common for promising findings in smaller quasi-experimental studies to be used to inform the design of larger, cluster randomised controlled trials to examine the outcomes of an intervention when implemented with a broader population of students in different contexts. This is because the between-group effect sizes observed in this evaluation can be used to inform the larger study, so as to ensure it has sufficient sample size and is using the appropriate design

to examine the program. However, there are pragmatic considerations when conducting a study of this type. For instance, the student sample would be expected to be randomised after baseline data collection has occurred, with students who may benefit from Raise being randomly allocated to either receive the program or be a comparison group. Furthermore, it would be likely that all participating schools would have to be new to the program, to avoid contamination in terms of non-Raise mentees receiving part of the program unintentionally. However, this type of research often has significant financial and resourcing requirements, which is why they are not common for commercial-based programs.

Given difficulties with control group recruitment and data collection, a possible alternative would be to compare future Raise evaluation data to existing population data or administrative data. Similar to Recommendation 1, this could involve aligning outcome data collection with the Mental Health Checklist or South Australia's WEC and requesting data linkage for mentees. However, schools may collect this population data at different times and use it for different purposes. If this approach were taken, it would therefore be important to acknowledge any differences in the timeframes of data collection.

A final approach to building the evidence for Raise would be to use a longitudinal approach, whereby participants are followed up at certain intervals to capture their outcomes, and to include specific measures which enable them to reflect on the contribution of participating in Raise on those outcomes. For instance, following up cohorts the year after they were due to finish high school would capture the proportion of students who were able to complete high school, or those who have been able to secure employment by the age of 24. This would align with existing policy reports which have demonstrated the significant social and fiscal burden of students not completing high school and not being in employment by the age of 24. Although this would not necessarily involve a comparison group, the use of existing administrative data could enable a level of comparison to be conducted.

Recommendation 4: Consider ways to increase the reach and length of the program

One theme in qualitative feedback from mentees was that they could have further benefited from the program if it was extended in duration or included more interactions. A recommendation is for Raise to explore to what extent this feedback is provided in general. However, students expressing negatively that the program has ended can be interpreted in two ways. Positively, it could be an indicator of the benefit they believe they are receiving from their participation, and not wanting the program to end. Conversely, it may reflect that they believe they require more of the program to have a positive impact on their outcomes. Existing mentoring research has consistently found that most benefits of SBM are not observed until at least one full year of regular mentoring sessions (Herrera, 2004; Lee & Cramond, 1999). It is accepted in intervention research that it is rare that all participants in a program will benefit to the same extent. Therefore, a consideration is whether there are modifications to the intervention for some participants to increase the likelihood that all participants benefit to a similar degree.

For instance, a potential approach could be to offer the program to students for a second year, targeting students who required additional mentoring support to either realise positive outcomes and/or consolidate the benefits further. This would require a review of each mentee's outcomes at the end of the year and offering additional support the following year for those identified as need this extension. However, consideration of whether the current activities are repeated or if a different manual is created needs to be considered.

Another approach could be through increasing the capacity of school staff via a professional development approach that aims to build the capacity of school staff to provide support, which is complementary to the content covered in the Raise program. This approach would enable school staff to provide support to students on the other days in which the mentoring program is not conducted, which could lead to greater benefit to students without requiring additional mentor commitment and resourcing. This approach would also enable all educators involved in the student's learning to support them.

To what extent, if any, does the current intervention model need to be extended or supplemented could be explored in future evaluation activities.

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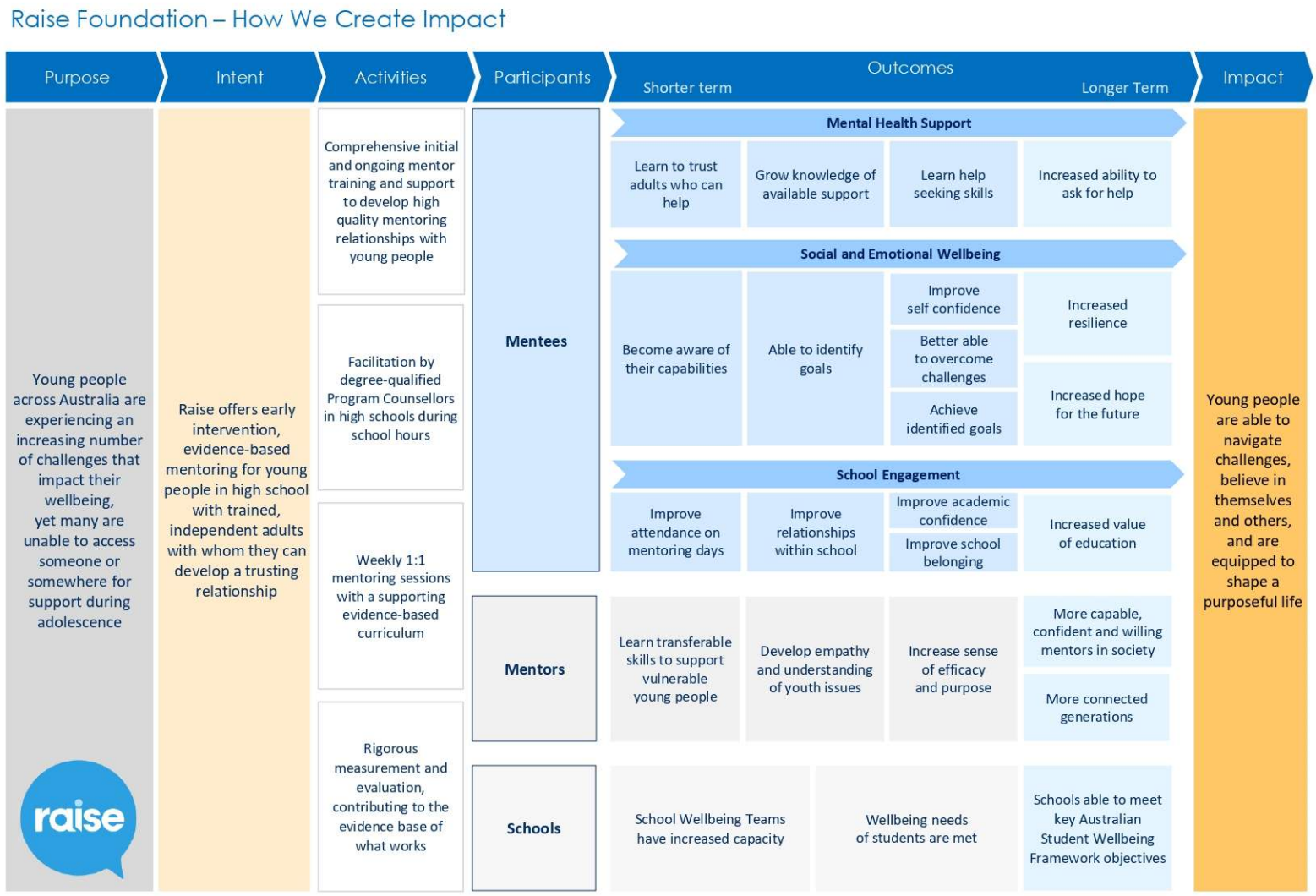
Appendices

Appendix A. Raise Theory of Change.



Appendix B. Raise Program Logic.

Needs	Inputs	Activities	Outputs	Intermediate Outcomes	Long Term outcomes
Australia's young people are struggling Suicide is the leading cause of death for young people, more than car accidents or cancer. 1 in 4 young people are unhappy with their lives, yet only 36% of young people will ask for help. Our young people have the opportunity to benefit from having a neutral adult role model who they can trust. **Mentoring Programs for Young People** • Lack of evidence based, best practice mentoring programs • Many mentoring programs do not meet definition of mentoring, and are not rigorously evaluated.	**Participants** • Mentees • Schools • Parents/carers **Raise Team** • Raise Mentors • Raise Staff Team • Raise Board of Directors • Raise Ambassadors **Advisory** • Patron's Advisory Council • Youth Advisory Council • School Advisory Council • Research Advisory Council • Fundraising Advisory Council • Centre for Social Impact • AYMN **Funding** • Government • Corporate • Community • Private Individuals • Events **Materials** • Program Material • Raise Mentor Training Course • Food and Beverages	**Mentees and Mentors** • Engage, recruit, train, retain and support • Ensure best practice youth safety measures in place **Schools** • Engage, recruit and retain school partners • Engage parent/carer support **Program** • Mentee information and orientation sessions • Mentor info session • Initial 'Jitters' session • Matching process for mentees with mentors • Weekly mentoring • Weekly evidence-based curriculum • Weekly supervision • Graduation celebration **Evaluation** • Conduct pre and post surveys with stakeholders • Post-intervention school and parent/carer surveys • Conduct mentee and mentor focus groups • Youth Participation in research	**Accountability** • 16 modules best practice training for all mentors (online and f2f) • Mentee and Mentor Orientation sessions • "Jitters" intro session • 20 weekly sessions of one-to-one mentoring • 20 weekly mentor supervision with PC • Parent consent, match agreement, school partner forms • Mentees set, track and achieve chosen goals • Graduation celebration • Mentor + mentee satisfaction with induction, training, supervision, program • School and parent/carer satisfaction **Dosage** • Number of programs • Avg number of mentees • % of retention rates • Avg number of sessions • Avg number of mentor supervision sessions • Avg number of goals • % of evaluation by mentees, mentors, schools and staff	**Mentees - Initial** • Support from non-parental adult (mentor) • Increased social networks **Mentees - Intermediate** • Confidence • Communication skills • Coping strategies • Help seeking skills • Positive relationships with friends, family and teachers • Resilience • Able to set and achieve goals • Hope for the future • Engagement with education • Attendance • Grades • Employability skills **Mentors** • Leadership skills • Ability to mentor others • Understanding of youth • Sense of purpose • Connection to community • Parenting skills • Increased social networks • Employer satisfaction	**"A powerful youth mentoring movement creating thriving communities across Australia"** **Mentees** • Engaged with education or employment • Good mental health and psychological wellbeing • Participating in community • Emerging role models • Leadership qualities **Mentors** Increased: • quality of relationships • engagement with their workplace (corporate) • wellbeing of workplace (corporate) • corporate community networks (corporate) • skills (industry mentors) • skills for employment • employment networks (industry and corporate mentors) • likelihood of volunteering in the future

Appendix C. Cohort Baseline and Follow-Up Survey.

What school do you attend?

_____

What is your school email address? (This is optional and so that we can send you a follow-up survey at the end of the program)

_____

What is your date of birth?

_____

What year level are you in?

- Year 7
- Year 8
- Year 9
- Year 10

What gender do you identify as?

- Male
- Female
- Other
- Rather not say

Were you born in Australia?

- Yes
- No

Do you speak a language other than English at home?

- Yes, mostly
- Yes, sometimes
- No

Who do you live with?

- One parent
- Both parents
- Carer or guardian
- Other

Are you a person with a disability?

- Yes
- No
- Prefer not to say

Do you help look after any family members or friends who need your support because of a disability, health condition or mental illness?

- Yes
- No
- Prefer not to say

In the past month, how many school days have you been absent for?

_____

Have you experienced any difficult home or personal events (e.g mental health, family separation, financial difficulties, discrimination)?

- Yes
- No

If yes, to what degree have these events impacted on your ability to engage in school activities (e.g. classroom attention, homework)?

None of the time A little of the time Some of the time Most of the time All of the time

o o o o o

About your school

The purpose of this section is to learn more about you and your school. It is important that you answer every question as honestly as possible. This information will not be used to grade you, or decide which classes you get to take. We will use the information from all students to tell your school what they are doing well to support students, and what they can do to do a better job.

On a scale of 1 to 10, how much do you agree with these statements? (With 1 being strongly disagree and 10 being strongly agree)
Please choose only one answer.

	Strongly Disagree									Strongly Agree
My family knows how I am doing in school	1	2	3	4	5	6	7	8	9	10
I like most of my teachers	1	2	3	4	5	6	7	8	9	10
If I do not know what something means, I do something to figure it out.	1	2	3	4	5	6	7	8	9	10
I study at home	1	2	3	4	5	6	7	8	9	10
I plan to pursue more education after high school.	1	2	3	4	5	6	7	8	9	10
There is someone in my family who helps me when I have trouble completing my homework.	1	2	3	4	5	6	7	8	9	10
Most days, I look forward to going to school.	1	2	3	4x	5	6	7	8	9	10
I pay attention to my teachers.	1	2	3	4	5	6	7	8	9	10
When I am doing school work, I make sure I understand what I am learning	1	2	3	4	5	6	7	8	9	10
I look for more information about things we are learning in school	1	2	3	4	5	6	7	8	9	10
My school work is important	1	2	3	4	5	6	7	8	9	10
Being successful in school will help me in the future	1	2	3	4	5	6	7	8	9	10
I am proud to be a student at this school.	1	2	3	4	5	6	7	8	9	10
When learning new things, I try to connect them to things I already know.	1	2	3	4	5	6	7	8	9	10
When I have an assignment due, I keep working until it is finished	1	2	3	4	5	6	7	8	9	10
Getting good grades is important to me.	1	2	3	4	5	6	7	8	9	10
It is important to me to be successful in a job	1	2	3	4	5	6	7	8	9	10
I talk to my family about problems I have at school.	1	2	3	4	5	6	7	8	9	10
There is a lot I can learn from my teachers.	1	2	3	4	5	6	7	8	9	10
Teachers help me to be successful at school.	1	2	3	4	5	6	7	8	9	10
I know how to study for tests	1	2	3	4	5	6	7	8	9	10
I feel like a part of my school.	1	2	3	4	5	6	7	8	9	10

About your connections

	Disagree a lot	Disagree	Neutral	Agree	Agree a lot
I usually fit in with other kids around me	☐	☐	☐	☐	☐
I feel like part of a group of friends	☐	☐	☐	☐	☐
I have a friend I can tell everything to	☐	☐	☐	☐	☐
I feel like I belong at school	☐	☐	☐	☐	☐
I feel comfortable talking to teachers	☐	☐	☐	☐	☐
I can be myself at school	☐	☐	☐	☐	☐
I have friends at school	☐	☐	☐	☐	☐

If you were having a personal or emotional problem, how likely is it that you would seek help from the following people?
Please indicate your response by putting a line through the number that best describes your intention to seek help from each help source that is listed. 1 = Extremely Unlikely 3 = Unlikely 5 = Likely 7 = Extremely Likely

	Extremely Unlikely		Unlikely		Likely		Extremely Likely
	1	2	3	4	5	6	7
a. Intimate partner (e.g., girlfriend, boyfriend)	☐	☐	☐	☐	☐	☐	☐
b. Friend (not related to you)	☐	☐	☐	☐	☐	☐	☐
c. Parent	☐	☐	☐	☐	☐	☐	☐
d. Other relative/family member	☐	☐	☐	☐	☐	☐	☐
e. Mental health professional (e.g. psychologist, social worker, counsellor)	☐	☐	☐	☐	☐	☐	☐
f. Phone helpline (e.g. Lifeline)	☐	☐	☐	☐	☐	☐	☐
g. Doctor/GP	☐	☐	☐	☐	☐	☐	☐
h. Minister or religious leader (e.g. Priest, Rabbi, Chaplain)	☐	☐	☐	☐	☐	☐	☐
i. I would not seek help from anyone	☐	☐	☐	☐	☐	☐	☐
j. I would seek help from another not listed above (please list in the space provided, (e.g., work colleague	☐	☐	☐	☐	☐	☐	☐

These next few questions are about how things are going for you:

Do you feel able to trust adults who can help when you need it?	Always	Sometimes	Rarely	Never
Do you feel able to ask for help from others when you need it?	Always	Sometimes	Rarely	Never
Do you feel like you know where to get help when you need it?	Always	Sometimes	Rarely	Never

About your well-being

This is a survey about you! Please read each of the following statements. Circle how much each statement describes you. Please be honest - there are no right or wrong answers!

	Almost Never	Sometimes	Often	Very Often	Almost Always
When something good happens to me, I have people who I like to share the good news with.	☐	☐	☐	☐	☐
I finish whatever I begin.	☐	☐	☐	☐	☐
I am optimistic about my future	☐	☐	☐	☐	☐
I feel happy.	☐	☐	☐	☐	☐
When I do an activity, I enjoy it so much that I lose track of time.	☐	☐	☐	☐	☐
I have a lot of fun.	☐	☐	☐	☐	☐
I get completely absorbed in what I am doing.	☐	☐	☐	☐	☐
I love life.	☐	☐	☐	☐	☐
I keep at my schoolwork until I am done with it.	☐	☐	☐	☐	☐
When I have a problem, I have someone who will be there for me.	☐	☐	☐	☐	☐
I get so involved in activities that I forget about everything else.	☐	☐	☐	☐	☐
When I am learning something new, I lose track of how much time has passed.	☐	☐	☐	☐	☐
In uncertain times, I expect the best.	☐	☐	☐	☐	☐
There are people in my life who really care about me.	☐	☐	☐	☐	☐
I think good things are going to happen to me.	☐	☐	☐	☐	☐
I have friends that I really care about.	☐	☐	☐	☐	☐
Once I make a plan to get something done, I stick to it.	☐	☐	☐	☐	☐
I believe that things will work out, no matter how difficult they seem.	☐	☐	☐	☐	☐
I am a hard worker.	☐	☐	☐	☐	☐
I am a cheerful person.	☐	☐	☐	☐	☐

Below are some statements about your feelings and thoughts. Please indicate how often you felt or thought a certain way during the last 2 weeks.

	None of the time	Rarely	Some of the time	Often	All of the time
a. I've been feeling optimistic about the future	☐	☐	☐	☐	☐
b. I've been feeling useful	☐	☐	☐	☐	☐
c. I've been feeling relaxed	☐	☐	☐	☐	☐
d. I've been dealing with problems well	☐	☐	☐	☐	☐
e. I've been thinking clearly	☐	☐	☐	☐	☐
f. I've been feeling close to other people	☐	☐	☐	☐	☐
g. I've been able to make up my own mind about things	☐	☐	☐	☐	☐

These questions relate to how you cope when things don't go quite right. Circle the response that describes YOU the best.

I tend to bounce back quickly after hard times	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I have a hard time making it through stressful events	Strongly disagree	Disagree	Neutral	Agree	Strongly agree

It does not take me long to recover from a stressful event	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
It is hard for me to snap back when something bad happens	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I usually come through difficult times with little trouble	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I tend to take a long time to get over setbacks in my life	Strongly disagree	Disagree	Neutral	Agree	Strongly agree

Raise Program (<u>only asked at follow-up</u>)

Did you participate in the Raise mentoring program in 2023?

- ☐ Yes – branching – next items
- ☐ No – branching – end survey

What has, if any, been the most significant benefit of participating in the Raise program?

What has, if any, been a negative of participating in the Raise program?

How would you describe your engagement with your mentor?

We are interested in hearing more from participants about their experience in participating in the Raise program. Would you be interested in hearing more about participating in this aspect?

- ☐ Yes
- ☐ No

Appendix D. Mentee 'Pulse' Survey.

What school do you attend?

_____

What is your date of birth?

_____

What year level are you in?

- Year 7
- Year 8
- Year 9
- Year 10

What gender do you identify as?

- Male
- Female
- Other
- Rather not say

How many Raise sessions have you attended in the past four weeks?

- 0
- 1
- 2
- 3
- 4

In the last 4 weeks have you had to match with a different mentor during the individual mentoring time?

- Yes
- No

The following statements are about your relationship with your matched mentor in the past four weeks. Please indicate how much you agree with each statement.

	Not at all	A little	Sometimes	Mostly	Always
I feel safe with my mentor	o	o	o	o	o
My mentor helps me to share my problems	o	o	o	o	o
My mentor helps me come up with ideas to cope with my problems	o	o	o	o	o

The following statements are about you in the last four weeks. Please indicate how much you agree with each statement.

	Not at all	A little	Sometimes	Mostly	Always
I am finding the Raise program useful for me	o	o	o	o	o
I feel that I really belong in my school	o	o	o	o	o
I can bounce back quickly after hard times	o	o	o	o	o
I feel hopeful about the future	o	o	o	o	o
	o	o	o	o	o

I am able to seek help from others when I need

Only asked at midpoint

Have you experienced any difficult home or personal events (e.g mental health, family separation, financial difficulties, discrimination)?

- Yes
- No

If yes, to what degree have these events impacted on your ability to engage in school activities (e.g. classroom attention, homework)?

None of the time	A little of the time	Some of the time	Most of the time	All of the time
o	o	o	o	o

Appendix E. Mentor Baseline and Follow-Up Survey.

If you were having a personal or emotional problem, how likely is it that you would seek help from the following people?
Please indicate your response by putting a line through the number that best describes your intention to seek help from each help source that is listed. 1 = Extremely Unlikely 3 = Unlikely 5 = Likely 7 = Extremely Likely

	Extremely Unlikely		Unlikely		Likely		Extremely Likely
	1	2	3	4	5	6	7
a. Intimate partner (e.g., girlfriend, boyfriend, husband, wife, de facto)	☐	☐	☐	☐	☐	☐	☐
b. Friend (not related to you)	☐	☐	☐	☐	☐	☐	☐
c. Parent	☐	☐	☐	☐	☐	☐	☐
d. Other relative/family member	☐	☐	☐	☐	☐	☐	☐
e. Mental health professional (e.g. psychologist, social worker, counsellor)	☐	☐	☐	☐	☐	☐	☐
f. Phone helpline (e.g. Lifeline)	☐	☐	☐	☐	☐	☐	☐
g. Doctor/GP	☐	☐	☐	☐	☐	☐	☐
h. Minister or religious leader (e.g. Priest, Rabbi, Chaplain)	☐	☐	☐	☐	☐	☐	☐
i. I would not seek help from anyone	☐	☐	☐	☐	☐	☐	☐
j. I would seek help from another not listed above (please list in the space provided, (e.g., work colleague	☐	☐	☐	☐	☐	☐	☐

Below are some statements about your feelings and thoughts. Please indicate how often you felt or thought a certain way during the last 2 weeks.

	None of the time	Rarely	Some of the time	Often	All of the time
h. I've been feeling optimistic about the future	☐	☐	☐	☐	☐
i. I've been feeling useful	☐	☐	☐	☐	☐
j. I've been feeling relaxed	☐	☐	☐	☐	☐
k. I've been dealing with problems well	☐	☐	☐	☐	☐
l. I've been thinking clearly	☐	☐	☐	☐	☐
m. I've been feeling close to other people	☐	☐	☐	☐	☐
n. I've been able to make up my own mind about things	☐	☐	☐	☐	☐

These questions relate to how you cope when things don't go quite right. Circle the response that describes YOU the best.

I tend to bounce back quickly after hard times	**Strongly disagree**	**Disagree**	**Neutral**	**Agree**	**Strongly agree**
I have a hard time making it through stressful events	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
It does not take me long to recover from a stressful event	Strongly disagree	Disagree	Neutral	Agree	Strongly agree

It is hard for me to snap back when something bad happens	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I usually come through difficult times with little trouble	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I tend to take a long time to get over setbacks in my life	Strongly disagree	Disagree	Neutral	Agree	Strongly agree

Appendix F. Student Perspective Questions and Data from Evaluation Mentees.

What has, if any, been the most significant benefit of participating in the Raise program?	What has, if any, been a negative of participating in the Raise program?	How would you describe your engagement with your mentor?
talking things on my mind out	missing out on core subjects	Great
Talking about issues with my mentor.	No	Good. I liked talking to her about life.
Not going up Class	Nothing	Good he was nice and funny
Not being in class	Could have been longer	Good. She was nice and good to talk to.
Nothing I was never here	Nothing was never here	I liked her. She can draw
talking to my mentor	going back to class after raise	very engaging
Learning skills	Nothing	Okay
Having someone in you corner	Talking to strangers	Good
Having someone to talk to who isn't a medical professional.	The games at the start of the period sometimes feel like I'm forced into them when sometimes i don't want to do them.	Very good. We had a very good connection.
I loved talking to my mentor every week and i loved the free food that they provided.	It took a week or two to get used to but then it went awesome.	Good I enjoyed getting to talk to her every week.
food?	qaiting for food	Great
Feeling listened to though other don't at times.	None	Pretty good
being able to talk to someone.	nothing	Good
Getting to speak to a person for a while about what I like to do.	No things.	We could take and engage a lot
I was able to trust my mentor and felt like I was able to improve some learning skills and had someone to talk to about my problems.	There wasn't any.	I felt I was able to warm up to her in the end and we had fun and enjoyed the time we had together.
having someone to talk to and trust	nothing	really engaged
Talking to someone I can trust	It only going for one period	We hit it off right away
got to talk to someone	nothing	easy to talk
This program has helped me and my mental health a lot I've been more happy and optimistic ever since I started this program	nothing the program has helped me so much and in no way has it been a negative effect on me	It was good we were both chill we were a bit jittery at the start but we had gotten a long swell as time passed and as we got to knowing each other
being able to speak to someone	nothing	very happy and talkative
food.	waitig fpr food.	good shes rly nice i love her
The program helped me to open up more and be more confident in myself.	Nothing	My mentor was an amazing person who has always been so kind and listens a lot.
Getting to share my responses was the most significant benefit of participating in the program.	Nothing.	I would say that it was really good.
realize who i am	realize the bad effects	i dont know
talking to the mentors.	there hasn't been any negative participating in Raise .	my engagement with my mentor is very good.
Thinking more about myself, doing more reflection		Positive
hep you set goals for the future	nothing really	good and fun

Appendix G. Additional Student Perspective Questions and Data from Evaluation Mentees.

Tell me a little bit about why you participated in the Raise program?	Describe how you engaged in the Raise activities and sessions throughout the year.	What have been your key takeaway learnings from the program?	Describe the changes you have noticed about yourself through participating in Raise.	What was the best part of the program?	What would you change about the program?	Is there anything else you would like to add?
i joined the program because i enjoyed it and it was fun.	I engaged in all the active by participating and answering the question.	in the program i learn to be confident, set gaols for my future and to be myself no matter where i am.	since I joined raise I learn things about myself such as being more confident and i can concentrate more.	the best part of the program was talking to my mentor.	I wouldn't change anything about the program because everything is fun and useful.	there is nothing I would like to add.
To build up my confidence and meet new people	I was very engaged I tried everything they said to do	Confidence	I got more confidence	Getting to meet my mentor	For it to stay until the end of the year	No

Appendix H. Analysis Output

Following Pages

Learning Intervention
Faculty of Education
100 Leicester Street, The University of Melbourne, 3010 VIC
Email: education-li@unimelb.edu.au

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\01_cohort charac
> teristics_26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:31:37

.
. ***********************************************
. *** Baseline key demographics for the whole cohort
. ***********************************************
.
.         foreach var of varlist student_year student_gender student_australia
student_language student_disability student_live student_support student_absent
student_d
> ifficultevent student_impact {
  2.         tab `var'
  3.         }

  What year |
  level are |
    you in? |      Freq.     Percent        Cum.
------------+-----------------------------------
     Year 7 |         13        1.72        1.72
     Year 8 |        498       65.96       67.68
     Year 9 |        244       32.32      100.00
------------+-----------------------------------
      Total |        755      100.00

What gender do |
  you identify |
           as? |      Freq.     Percent        Cum.
---------------+-----------------------------------
          Male |        371       49.73       49.73
        Female |        326       43.70       93.43
         Other |         23        3.08       96.51
Rather not say |         26        3.49      100.00
---------------+-----------------------------------
         Total |        746      100.00

   Were you |
    born in |
 Australia? |      Freq.     Percent        Cum.
------------+-----------------------------------
         No |        162       21.77       21.77
        Yes |        582       78.23      100.00
------------+-----------------------------------
      Total |        744      100.00

Do you speak a |
```

language other than English at home?	Freq.	Percent	Cum.
No	384	51.20	51.20
Yes, sometimes	184	24.53	75.73
Yes, mostly	182	24.27	100.00
Total	750	100.00	

Are you a person with a disability?	Freq.	Percent	Cum.
No	657	88.54	88.54
Yes	41	5.53	94.07
Prefer not to say	44	5.93	100.00
Total	742	100.00	

Who do you live with?	Freq.	Percent	Cum.
One parent	144	19.23	19.23
Both parents	554	73.97	93.19
Carer or guardian	13	1.74	94.93
Other	38	5.07	100.00
Total	749	100.00	

Do you help look after any family members or friends who need your support becau	Freq.	Percent	Cum.
No	362	69.08	69.08
Yes	119	22.71	91.79
Prefer not to say	43	8.21	100.00
Total	524	100.00	

In the past two weeks, how many school days have you been absent for?	Freq.	Percent	Cum.
0	251	52.07	52.07
.5	2	0.41	52.49
1	82	17.01	69.50

```
          2 |          54       11.20       80.71
          3 |          27        5.60       86.31
        3.5 |           1        0.21       86.51
          4 |           9        1.87       88.38
          5 |          21        4.36       92.74
          6 |           6        1.24       93.98
        6.5 |           1        0.21       94.19
          7 |           7        1.45       95.64
          9 |           3        0.62       96.27
         10 |           5        1.04       97.30
         11 |           1        0.21       97.51
         12 |           2        0.41       97.93
         13 |           2        0.41       98.34
         14 |           5        1.04       99.38
         15 |           1        0.21       99.59
         25 |           1        0.21       99.79
         26 |           1        0.21      100.00
------------+-----------------------------------
      Total |         482      100.00

   Have you |
experienced |
        any |
  difficult |
    home or |
   personal |
events (e.g |
     mental |
  health, f |      Freq.     Percent        Cum.
------------+-----------------------------------
         No |         336       63.64       63.64
        Yes |         192       36.36      100.00
------------+-----------------------------------
      Total |         528      100.00

     If yes, to what |
   degree have these |
  events impacted on |
     your ability to |
         engage in s |      Freq.     Percent        Cum.
---------------------+-----------------------------------
    None of the time |          20       10.58       10.58
A little of the time |          52       27.51       38.10
    Some of the time |          61       32.28       70.37
    Most of the time |          41       21.69       92.06
     All of the time |          15        7.94      100.00
---------------------+-----------------------------------
               Total |         189      100.00

.
.         sum epoc_engagement_pre epoc_perser_pre epoc_optimism_pre
epoc_connect_pre epoc_happy_pre helpseeking_pre SSE_aspiration_pre
SSE_productivity_pre SSE_belong_p
> re wemwbs brs_pre
```

```
    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
epoc_enga~re |        373    2.959562    .9696443          1          5
epoc_pers~re |        489    3.162747    .9346528          1          5
epoc_opti~re |        437    3.016209    1.017311          1          5
epoc_conn~re |        437    3.793669    .9261997          1          5
epoc_happ~re |        373     3.35992    1.007931          1          5
-------------+---------------------------------------------------------
helpseeki~re |        340    33.08529    9.273384         10         64
SSE_aspir~re |        415    8.097791     1.94677          1         10
SSE_produ~re |        416    6.395461    1.868436          1         10
SSE_belon~re |        415    5.798353    2.096109          1         10
      wemwbs |        358    21.67075    5.239425          7         35
-------------+---------------------------------------------------------
     brs_pre |        433    3.046459    .6137383          1          5

.
. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\01_cohort charac
> teristics_26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:31:37
-------------------------------------------------------------------------------
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```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\02_define_match_
> 26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:31:37

.
.
.
. ************************
. *** Compare raise and non raise students for baseline characteristics to
identify inbalance
. ************************
.
.         foreach var of varlist student_year student_gender student_australia
student_language student_disability student_live student_support student_absent
student_d
> ifficultevent student_impact {
  2.         tab student_mentee `var', row chi
  3.         }

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |
 student a |
     Raise |   What year level are you in?
   mentee? |    Year 7     Year 8     Year 9 |     Total
-----------+---------------------------------+----------
        No |         2        395        198 |       595
           |      0.34      66.39      33.28 |    100.00
-----------+---------------------------------+----------
       Yes |        11        103         46 |       160
           |      6.88      64.38      28.75 |    100.00
-----------+---------------------------------+----------
     Total |        13        498        244 |       755
           |      1.72      65.96      32.32 |    100.00

          Pearson chi2(2) =  32.1882   Pr = 0.000

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
```

+----------------+

Is this student a Raise mentee?	What gender do you identify as?				
	Male	Female	Other	Rather no	Total
No	305	244	15	23	587
	51.96	41.57	2.56	3.92	100.00
Yes	66	82	8	3	159
	41.51	51.57	5.03	1.89	100.00
Total	371	326	23	26	746
	49.73	43.70	3.08	3.49	100.00

Pearson chi2(3) = 9.5822 Pr = 0.022

+----------------+
Key
frequency
row percentage
+----------------+

Is this student a Raise mentee?	Were you born in Australia?		
	No	Yes	Total
No	126	459	585
	21.54	78.46	100.00
Yes	36	123	159
	22.64	77.36	100.00
Total	162	582	744
	21.77	78.23	100.00

Pearson chi2(1) = 0.0893 Pr = 0.765

+----------------+
Key
frequency
row percentage
+----------------+

Is this student a Raise mentee?	Do you speak a language other than English at home?			
	No	Yes, some	Yes, most	Total
No	310	138	143	591

	52.45	23.35	24.20	100.00
Yes	74	46	39	159
	46.54	28.93	24.53	100.00
Total	384	184	182	750
	51.20	24.53	24.27	100.00

Pearson chi2(2) = 2.4516 Pr = 0.294

Key
frequency
row percentage

Is this student a Raise mentee?	Are you a person with a disability?			
	No	Yes	Prefer no	Total
No	517	32	37	586
	88.23	5.46	6.31	100.00
Yes	140	9	7	156
	89.74	5.77	4.49	100.00
Total	657	41	44	742
	88.54	5.53	5.93	100.00

Pearson chi2(2) = 0.7467 Pr = 0.688

Key
frequency
row percentage

Is this student a Raise mentee?	Who do you live with?				
	One paren	Both pare	Carer or	Other	Total
No	92	462	9	28	591
	15.57	78.17	1.52	4.74	100.00
Yes	52	92	4	10	158
	32.91	58.23	2.53	6.33	100.00
Total	144	554	13	38	749
	19.23	73.97	1.74	5.07	100.00

```
          Pearson chi2(3) =  27.5660   Pr = 0.000

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |    Do you help look after any
 student a |  family members or friends who
     Raise |     need your support becau
   mentee? |        No        Yes  Prefer no |     Total
-----------+---------------------------------+----------
        No |       262         70         37 |       369
           |     71.00      18.97      10.03 |    100.00
-----------+---------------------------------+----------
       Yes |       100         49          6 |       155
           |     64.52      31.61       3.87 |    100.00
-----------+---------------------------------+----------
     Total |       362        119         43 |       524
           |     69.08      22.71       8.21 |    100.00

          Pearson chi2(2) =  13.3880   Pr = 0.001

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |
 student a |
     Raise |                                    In the past two weeks, how many
school days have you been absent for?
   mentee? |         0         .5          1          2          3        3.5
      4          5          6        6.5          7          9         10 |
Total
-----------+-------------------------------------------------------------------
-------------------------------------------------------------------------+----
------
        No |       203          2         67         35         17          1
      7         12          5          1          3          3          1 |
 365
           |     55.62       0.55      18.36       9.59       4.66       0.27
   1.92       3.29       1.37       0.27       0.82       0.82       0.27 |
100.00
-----------+-------------------------------------------------------------------
-------------------------------------------------------------------------+----
------
       Yes |        48          0         15         19         10          0
      2          9          1          0          4          0          4 |
 117
```

```
           |     41.03       0.00      12.82      16.24       8.55       0.00
   1.71       7.69       0.85       0.00       3.42       0.00       3.42 |
100.00
-----------+-------------------------------------------------------------------
-------------------------------------------------------------------------+----
------
     Total |       251          2         82         54         27          1
      9         21          6          1          7          3          5 |
 482
           |     52.07       0.41      17.01      11.20       5.60       0.21
   1.87       4.36       1.24       0.21       1.45       0.62       1.04 |
100.00


   Is this |
 student a |
     Raise |    In the past two weeks, how many school days have you been absent
for?
   mentee? |        11         12         13         14         15         25
     26 |     Total
-----------+-------------------------------------------------------------------
---------+----------
        No |         0          2          1          5          0          0
      0 |       365
           |      0.00       0.55       0.27       1.37       0.00       0.00
   0.00 |    100.00
-----------+-------------------------------------------------------------------
---------+----------
       Yes |         1          0          1          0          1          1
      1 |       117
           |      0.85       0.00       0.85       0.00       0.85       0.85
   0.85 |    100.00
-----------+-------------------------------------------------------------------
---------+----------
     Total |         1          2          2          5          1          1
      1 |       482
           |      0.21       0.41       0.41       1.04       0.21       0.21
   0.21 |    100.00

         Pearson chi2(19) =  45.5107   Pr = 0.001

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

           | Have you experienced
   Is this | any difficult home or
 student a | personal events (e.g
     Raise |   mental health, f
   mentee? |        No        Yes |     Total
-----------+----------------------+----------
```

```
        No |       262        110 |       372
           |     70.43      29.57 |    100.00
-----------+----------------------+----------
       Yes |        74         82 |       156
           |     47.44      52.56 |    100.00
-----------+----------------------+----------
     Total |       336        192 |       528
           |     63.64      36.36 |    100.00

          Pearson chi2(1) =  25.1130   Pr = 0.000

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |
 student a |  If yes, to what degree have these events impacted on
     Raise |              your ability to engage in s
   mentee? | None of t  A little   Some of t  Most of t  All of th |     Total
-----------+--------------------------------------------------------+----------
        No |        11         36         39         17          6 |       109
           |     10.09      33.03      35.78      15.60       5.50 |    100.00
-----------+--------------------------------------------------------+----------
       Yes |         9         16         22         24          9 |        80
           |     11.25      20.00      27.50      30.00      11.25 |    100.00
-----------+--------------------------------------------------------+----------
     Total |        20         52         61         41         15 |       189
           |     10.58      27.51      32.28      21.69       7.94 |    100.00

          Pearson chi2(4) =  10.2159   Pr = 0.037

.
.         bysort student_mentee: sum helpseeking2_1 helpseeking2_2
helpseeking2_3 epoc_engagement_pre epoc_perser_pre epoc_optimism_pre
epoc_connect_pre helpseeking_pre
>  SSE_aspiration_pre SSE_productivity_pre SSE_belong_pre wemwbs brs_pre

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> student_mentee = No

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
helpseekin~1 |        304    3.078947    .8406058          1          4
helpseekin~2 |        304    2.940789    .8383037          1          4
helpseekin~3 |        303    3.171617    .8320483          1          4
epoc_enga~re |        333    2.990741    .9652697          1          5
epoc_pers~re |        333    3.202703     .934315          1          5
-------------+---------------------------------------------------------
epoc_opti~re |        284    3.069836    1.003118          1          5
```

```
epoc_conn~re |        284    3.842723    .9279131          1          5
helpseeki~re |        308    33.30519    9.235485         10         64
SSE_aspir~re |        374     8.17803    1.938404          1         10
SSE_produ~re |        375    6.444285     1.88862          1         10
-------------+---------------------------------------------------------
SSE_belon~re |        374    5.850401    2.102973          1         10
      wemwbs |        319    21.84752    5.180994          7         35
     brs_pre |        281    3.126987     .596601          1          5

--------------------------------------------------------------------------------
--------------------------------------------------------------------------------
--------
-> student_mentee = Yes

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
helpseekin~1 |        153    3.346405    .6316255          2          4
helpseekin~2 |        152    3.256579    .6458908          2          4
helpseekin~3 |        151    3.370861    .6389146          2          4
epoc_enga~re |         40         2.7    .9792724        1.5          5
epoc_pers~re |        156    3.077457    .9326376          1          5
-------------+---------------------------------------------------------
epoc_opti~re |        153    2.916667     1.03912          1          5
epoc_conn~re |        153    3.702614    .9190939          1          5
helpseeki~re |         32    30.96875    9.519028         16         50
SSE_aspir~re |         41    7.365854    1.891674        2.5         10
SSE_produ~re |         41    5.948897    1.625589       2.75   8.833333
-------------+---------------------------------------------------------
SSE_belon~re |         41    5.323577    1.994579   1.333333   9.166667
      wemwbs |         39    20.22487    5.555305          7         35
     brs_pre |        152    2.897588     .619075   1.166667          5


.
.         foreach var of varlist helpseeking2_1 helpseeking2_2 helpseeking2_3
epoc_engagement_pre epoc_perser_pre epoc_optimism_pre epoc_connect_pre
helpseeking_pre SSE
> _aspiration_pre SSE_productivity_pre SSE_belong_pre wemwbs brs_pre {
  2.         ttest `var', by(student_mentee)
  3.         }

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     304    3.078947     .048212    .8406058    2.984075     3.17382
     Yes |     153    3.346405    .0510639    .6316255    3.245519    3.447292
---------+--------------------------------------------------------------------
Combined |     457     3.16849    .0367878    .7864341    3.096195    3.240785
---------+--------------------------------------------------------------------
    diff |           -.2674579    .0770257               -.418828   -.1160877
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =  -3.4723
H0: diff = 0                                     Degrees of freedom =      455
```

```
    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0003         Pr(|T| > |t|) = 0.0006          Pr(T > t) = 0.9997

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     304    2.940789      .04808    .8383037    2.846176    3.035402
     Yes |     152    3.256579    .0523887    .6458908    3.153069    3.360088
---------+--------------------------------------------------------------------
Combined |     456    3.046053    .0371296    .7928706    2.973086    3.119019
---------+--------------------------------------------------------------------
    diff |           -.3157895     .077445               -.4679847   -.1635943
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =  -4.0776
H0: diff = 0                                     Degrees of freedom =      454

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0001          Pr(T > t) = 1.0000

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     303    3.171617    .0477999    .8320483    3.077554     3.26568
     Yes |     151    3.370861    .0519941    .6389146    3.268125    3.473596
---------+--------------------------------------------------------------------
Combined |     454    3.237885     .036521    .7781627    3.166114    3.309657
---------+--------------------------------------------------------------------
    diff |           -.1992438    .0770332               -.3506315    -.047856
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =  -2.5865
H0: diff = 0                                     Degrees of freedom =      452

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0050         Pr(|T| > |t|) = 0.0100          Pr(T > t) = 0.9950

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     333    2.990741    .0528965    .9652697    2.886686    3.094795
     Yes |      40         2.7    .1548366    .9792724    2.386814    3.013186
---------+--------------------------------------------------------------------
Combined |     373    2.959562    .0502063    .9696443    2.860838    3.058286
---------+--------------------------------------------------------------------
    diff |            .2907407    .1617771               -.0273743    .6088558
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.7972
H0: diff = 0                                     Degrees of freedom =      371

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9634         Pr(|T| > |t|) = 0.0731          Pr(T > t) = 0.0366
```

```
Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     333    3.202703    .0512001     .934315    3.101985     3.30342
     Yes |     156    3.077457    .0746708    .9326376    2.929954    3.224961
---------+--------------------------------------------------------------------
Combined |     489    3.162747    .0422665    .9346528      3.0797    3.245794
---------+--------------------------------------------------------------------
    diff |            .1252454    .0905973               -.0527644    .3032553
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.3824
H0: diff = 0                                     Degrees of freedom =      487

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9163         Pr(|T| > |t|) = 0.1675          Pr(T > t) = 0.0837

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     284    3.069836    .0595241    1.003118    2.952669    3.187002
     Yes |     153    2.916667    .0840078     1.03912    2.750693     3.08264
---------+--------------------------------------------------------------------
Combined |     437    3.016209    .0486646    1.017311    2.920563    3.111855
---------+--------------------------------------------------------------------
    diff |             .153169    .1018738               -.047057    .3533951
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.5035
H0: diff = 0                                     Degrees of freedom =      435

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9333         Pr(|T| > |t|) = 0.1334          Pr(T > t) = 0.0667

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     284    3.842723    .0550615    .9279131    3.734341    3.951105
     Yes |     153    3.702614    .0743043    .9190939    3.555812    3.849417
---------+--------------------------------------------------------------------
Combined |     437    3.793669    .0443061    .9261997    3.706589    3.880749
---------+--------------------------------------------------------------------
    diff |            .1401086    .0927476               -.0421806    .3223979
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.5106
H0: diff = 0                                     Degrees of freedom =      435

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9342         Pr(|T| > |t|) = 0.1316          Pr(T > t) = 0.0658

Two-sample t test with equal variances
------------------------------------------------------------------------------
```

```
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     308    33.30519    .5262406    9.235485     32.2697    34.34069
     Yes |      32    30.96875    1.682742    9.519028    27.53677    34.40073
---------+--------------------------------------------------------------------
Combined |     340    33.08529    .5029199    9.273384    32.09606    34.07453
---------+--------------------------------------------------------------------
    diff |            2.336445    1.720232               -1.047263    5.720153
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.3582
H0: diff = 0                                     Degrees of freedom =      338

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9123         Pr(|T| > |t|) = 0.1753          Pr(T > t) = 0.0877

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     374     8.17803    .1002325    1.938404    7.980939    8.375122
     Yes |      41    7.365854    .2954298    1.891674    6.768768     7.96294
---------+--------------------------------------------------------------------
Combined |     415    8.097791    .0955632     1.94677    7.909942    8.285641
---------+--------------------------------------------------------------------
    diff |            .8121766    .3181534                .1867747    1.437579
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   2.5528
H0: diff = 0                                     Degrees of freedom =      413

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9945         Pr(|T| > |t|) = 0.0110          Pr(T > t) = 0.0055

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     375    6.444285    .0975279     1.88862    6.252513    6.636057
     Yes |      41    5.948897    .2538744    1.625589    5.435797    6.461996
---------+--------------------------------------------------------------------
Combined |     416    6.395461    .0916076    1.868436    6.215388    6.575533
---------+--------------------------------------------------------------------
    diff |            .4953882     .306745               -.1075837     1.09836
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.6150
H0: diff = 0                                     Degrees of freedom =      414

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9465         Pr(|T| > |t|) = 0.1071          Pr(T > t) = 0.0535

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     374    5.850401    .1087422    2.102973    5.636577    6.064226
```

```
     Yes |      41    5.323577     .311501    1.994579     4.69401    5.953144
---------+--------------------------------------------------------------------
Combined |     415    5.798353    .1028939    2.096109    5.596094    6.000613
---------+--------------------------------------------------------------------
    diff |            .5268238    .3442767               -.1499293    1.203577
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.5302
H0: diff = 0                                     Degrees of freedom =      413

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9366         Pr(|T| > |t|) = 0.1267          Pr(T > t) = 0.0634

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     319    21.84752      .29008    5.180994    21.27681    22.41824
     Yes |      39    20.22487    .8895607    5.555305    18.42405    22.02569
---------+--------------------------------------------------------------------
Combined |     358    21.67075    .2769122    5.239425    21.12617    22.21534
---------+--------------------------------------------------------------------
    diff |            1.622652    .8858694               -.1195432    3.364847
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   1.8317
H0: diff = 0                                     Degrees of freedom =      356

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9661         Pr(|T| > |t|) = 0.0678          Pr(T > t) = 0.0339

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
      No |     281    3.126987    .0355902     .596601    3.056929    3.197045
     Yes |     152    2.897588    .0502136     .619075    2.798376      2.9968
---------+--------------------------------------------------------------------
Combined |     433    3.046459    .0294944    .6137383    2.988488    3.104429
---------+--------------------------------------------------------------------
    diff |            .2293992    .0608717                .1097569    .3490416
------------------------------------------------------------------------------
    diff = mean(No) - mean(Yes)                                   t =   3.7686
H0: diff = 0                                     Degrees of freedom =      431

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9999         Pr(|T| > |t|) = 0.0002          Pr(T > t) = 0.0001

.
. ****************************************
. ************ Creating the matched cohort
. ****************************************
.
. ** Identify baseline characteristics which were related to treatment groups
for propensity score matching
. logistic student_mentee student_year student_gender student_australia
```

```
student_language student_disability student_difficultevent

Logistic regression                                     Number of obs =    513
                                                        LR chi2(6)    =  52.35
                                                        Prob > chi2   = 0.0000
Log likelihood = -286.4324                              Pseudo R2     = 0.0837

------------------------------------------------------------------------------
        student_mentee | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
----------------------+-------------------------------------------------------
          student_year |   .4404501   .0895811    -4.03   0.000     .2956479
.6561733
        student_gender |   1.074111   .1558456     0.49   0.622     .8082502
1.427421
     student_australia |   1.055102    .288042     0.20   0.844     .6178983
1.801656
      student_language |   1.487713   .2060708     2.87   0.004     1.134004
1.951747
    student_disability |   .6279462   .1401576    -2.08   0.037     .4054472
.972547
student_difficultevent |   2.929617   .6285888     5.01   0.000     1.923862
4.461158
                 _cons |   1.290872   .7760974     0.42   0.671     .3973053
4.194132
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

.
. ** Found that student_year and student_disability were related to decrease in
likelihood of being a mentee
. ** Found student_language, and difficult_event were related with increased
likelihood of being a mentee
.
. ** Identify baseline outcomes which are related to treatment groups for
propensity score matching
. logistic student_mentee epoc_perser_pre epoc_optimism_pre epoc_connect_pre

Logistic regression                                     Number of obs =    437
                                                        LR chi2(3)    =   2.77
                                                        Prob > chi2   = 0.4283
Log likelihood = -281.57969                             Pseudo R2     = 0.0049

------------------------------------------------------------------------------
   student_mentee | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
------------------+-----------------------------------------------------------
  epoc_perser_pre |   1.006256   .1447863     0.04   0.965     .7589839
1.334089
```

```
epoc_optimism_pre |   .9101492   .1326196    -0.65   0.518     .6840413
1.210996
 epoc_connect_pre |   .9045294   .1285767    -0.71   0.480     .6845835
1.195141
            _cons |   1.022599   .4550214     0.05   0.960     .4275134
2.446024
------------------------------------------------------------------------------
---
Note: _cons estimates baseline odds.

. logistic student_mentee SSE_productivity_pre SSE_belong_pre SSE_aspiration_pre
SSE_total_pre
note: SSE_total_pre omitted because of collinearity.

Logistic regression                                     Number of obs =    415
                                                        LR chi2(3)    =   5.89
                                                        Prob > chi2   = 0.1169
Log likelihood = -130.86026                             Pseudo R2     = 0.0220

------------------------------------------------------------------------------
------
      student_mentee | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
---------------------+--------------------------------------------------------
------
SSE_productivity_pre |   1.079082   .1890261     0.43   0.664      .765503
1.521115
      SSE_belong_pre |   .9540516   .1262905    -0.36   0.722     .7360306
1.236653
  SSE_aspiration_pre |   .8153582   .0948993    -1.75   0.079     .6490489
1.024282
       SSE_total_pre |          1  (omitted)
               _cons |   .4370582   .2542173    -1.42   0.155     .1397762
1.366612
------------------------------------------------------------------------------
------
Note: _cons estimates baseline odds.

. logistic student_mentee helpseeking2_1 helpseeking2_2 helpseeking2_3

Logistic regression                                     Number of obs =    454
                                                        LR chi2(3)    =  17.61
                                                        Prob > chi2   = 0.0005
Log likelihood = -279.94048                             Pseudo R2     = 0.0305

------------------------------------------------------------------------------
student_mentee | Odds ratio   Std. err.      z    P>|z|     [95% conf. interval]
---------------+--------------------------------------------------------------
helpseeking2_1 |   1.242168   .2234111     1.21   0.228      .873146    1.767152
helpseeking2_2 |   1.503957   .2757762     2.23   0.026     1.049912    2.154357
helpseeking2_3 |   .9965004   .1765923    -0.02   0.984     .7040994    1.410331
         _cons |   .0706041    .038937    -4.81   0.000     .0239555     .208091
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.
```

```
.
. ** Include these as confounders in the propensity matching analyses. Only
difficult life event and year remained after modelling
.
. *** Creating the matched cohort
. kmatch ps student_mentee student_difficultevent student_year student_language
student_disability epoc_perser_pre epoc_optimism_pre epoc_connect_pre
helpseeking2_1 hel
> pseeking2_2 helpseeking2_3, att nn(1) caliper(0.001) generate(_treated)

Propensity-score nearest-neighbor matching                Number of obs = 424
                                                    Neighbors:    min =          1
Treatment   : student_mentee = 1                               max =          2
Covariates  : student_difficultevent student_year student_language
student_disability epoc_perser_pre epoc_optimism_pre epoc_connect_pre
helpseeking2_1 ...
PS model    : logit (pr)

Matching statistics
------------------------------------------------------------------------------
----------
           |             Matched             |             Controls            |
 Caliper
           |       Yes         No      Total |      Used     Unused      Total |

-----------+---------------------------------+---------------------------------+
----------
   Treated |        52         96        148 |        45        231        276 |
     .001
------------------------------------------------------------------------------
----------

Stored variables
Variable      Storage   Display    Value
    name         type    format    label      Variable label
------------------------------------------------------------------------------
------------------------------------------------------------------------------
--------
_treated        byte    %8.0g                 Treatment indicator
_KM_nc          byte    %10.0g                Number of matched controls
_KM_nm          byte    %10.0g                Number of times used as a match
_KM_mw          double  %10.0g                Matching weight
_KM_ps          double  %10.0g                Propensity score
_KM_strata      byte    %8.0g                 Matching stratum

. kmatch sum

------------------------------------------------------------------------------
----------
                       |               Raw               |          Matched(ATT)

                 Means |   Treated  Untreated     StdDif |   Treated  Untreated
   StdDif
```

```
----------------------+---------------------------------+----------------------
----------
student_difficultevent |   .527027   .2826087   .5127537 |  .3269231   .3076923
 .0403433
         student_year |  2.216216    2.40942  -.3618324 |  2.269231   2.346154
-.1440615
      student_language |   .777027   .5362319   .3046688 |  .5961538   .6346154
-.0486639
    student_disability |  .1283784   .1594203  -.0679825 |  .1730769   .1153846
 .1263475
       epoc_perser_pre |  3.103604   3.192029  -.0951542 |  3.326923   3.370192
-.0465618
     epoc_optimism_pre |  2.927365   3.066425  -.1353395 |  3.086538   3.346154
-.2526691
      epoc_connect_pre |  3.689189   3.838164  -.1612765 |  3.903846   4.009615
 -.114503
        helpseeking2_1 |  3.344595   3.061594   .3750685 |  3.288462   3.423077
-.1784096
        helpseeking2_2 |  3.256757   2.949275   .4095684 |  3.173077   3.269231
-.1280779
        helpseeking2_3 |  3.378378   3.177536    .270004 |  3.307692   3.384615
-.1034123
----------------------------------------------------------------------------
----------

----------------------------------------------------------------------------
----------
                       |               Raw               |          Matched(ATT)

             Variances |   Treated  Untreated      Ratio |   Treated  Untreated
    Ratio
----------------------+---------------------------------+----------------------
----------
student_difficultevent |  .2509653   .2034783   1.233376 |   .224359   .2178591
 1.029835
         student_year |  .3202795   .2499473   1.281388 |  .3182504   .2314753
 1.374879
      student_language |  .6506251   .5986825   1.086762 |  .5984163   .6305053
 .9491059
    student_disability |  .1806858   .2363109   .7646104 |  .2635747   .1437265
 1.833863
       epoc_perser_pre |   .865516   .8616271   1.004513 |  .9351433   .7067891
 1.323087
     epoc_optimism_pre |  1.090352   1.021127   1.067792 |  1.477658   .9468927
 1.560534
      epoc_connect_pre |  .8452943   .8612392   .9814861 |  .7479261   .7276152
 1.027914
        helpseeking2_1 |  .4042563   .7343742   .5504773 |  .4445701   .6036512
 .7364686
        helpseeking2_2 |   .409818   .7174177   .5712404 |  .4596531    .555238
 .8278487
        helpseeking2_3 |  .4000735   .7065481   .5662368 |  .3348416   .6354223
 .5269592
----------------------------------------------------------------------------
```

```
----------

.
. label define mentee_lab 0 "Non - Mentee" 1 "Mentee"

. label values _treated mentee_lab

.
. tab _treated if complete==1

   Treatment |
   indicator |      Freq.     Percent        Cum.
-------------+-----------------------------------
Non - Mentee |         95       48.22       48.22
      Mentee |        102       51.78      100.00
-------------+-----------------------------------
       Total |        197      100.00

. tab _treated student_mentee, m

             |   Is this student a
   Treatment |     Raise mentee?
   indicator |        No        Yes |     Total
-------------+----------------------+----------
Non - Mentee |       276          0 |       276
      Mentee |         0        148 |       148
           . |       321         27 |       348
-------------+----------------------+----------
       Total |       597        175 |       772

. **replace _treated=1 if student_mentee==1
. tab _treated student_mentee, m

             |   Is this student a
   Treatment |     Raise mentee?
   indicator |        No        Yes |     Total
-------------+----------------------+----------
Non - Mentee |       276          0 |       276
      Mentee |         0        148 |       148
           . |       321         27 |       348
-------------+----------------------+----------
       Total |       597        175 |       772

.
. gen _notmatched=.
(772 missing values generated)

. replace _notmatched=1 if _treated==. & student_mentee==1
(27 real changes made)

. tab _notmatched

_notmatched |      Freq.     Percent        Cum.
------------+-----------------------------------
```

```
          1 |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

.
. ************************
. ***     Boxplots of covariates before and after matching
. ************************
.
. graph box epoc_perser_pre epoc_optimism_pre epoc_connect_pre helpseeking2_1
helpseeking2_2 helpseeking2_3, over(_treated) ///
> title("Covariate Balance Before and After Matching")

.
. ************************
. *** Demographics for the matched cohort
. ************************
.
.         foreach var of varlist student_year student_gender student_australia
student_language student_disability student_live student_support student_absent
student_d
> ifficultevent student_impact {
  2.         tab student_mentee `var', row chi
  3.         }

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |
 student a |
    Raise |   What year level are you in?
   mentee? |    Year 7     Year 8     Year 9 |     Total
-----------+---------------------------------+----------
        No |         2        395        198 |       595
           |      0.34      66.39      33.28 |    100.00
-----------+---------------------------------+----------
       Yes |        11        103         46 |       160
           |      6.88      64.38      28.75 |    100.00
-----------+---------------------------------+----------
     Total |        13        498        244 |       755
           |      1.72      65.96      32.32 |    100.00

          Pearson chi2(2) =  32.1882   Pr = 0.000

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+
```

Is this student a Raise mentee?	What gender do you identify as? Male	Female	Other	Rather no	Total
No	305	244	15	23	587
	51.96	41.57	2.56	3.92	100.00
Yes	66	82	8	3	159
	41.51	51.57	5.03	1.89	100.00
Total	371	326	23	26	746
	49.73	43.70	3.08	3.49	100.00

Pearson chi2(3) = 9.5822 Pr = 0.022

Key
frequency
row percentage

Is this student a Raise mentee?	Were you born in Australia? No	Yes	Total
No	126	459	585
	21.54	78.46	100.00
Yes	36	123	159
	22.64	77.36	100.00
Total	162	582	744
	21.77	78.23	100.00

Pearson chi2(1) = 0.0893 Pr = 0.765

Key
frequency
row percentage

Is this student a Raise mentee?	Do you speak a language other than English at home? No	Yes, some	Yes, most	Total
No	310	138	143	591
	52.45	23.35	24.20	100.00

Yes	74	46	39	159
	46.54	28.93	24.53	100.00
Total	384	184	182	750
	51.20	24.53	24.27	100.00

Pearson chi2(2) = 2.4516 Pr = 0.294

Key
frequency
row percentage

Is this student a Raise mentee?	Are you a person with a disability? No	Yes	Prefer no	Total
No	517	32	37	586
	88.23	5.46	6.31	100.00
Yes	140	9	7	156
	89.74	5.77	4.49	100.00
Total	657	41	44	742
	88.54	5.53	5.93	100.00

Pearson chi2(2) = 0.7467 Pr = 0.688

Key
frequency
row percentage

Is this student a Raise mentee?	Who do you live with? One paren	Both pare	Carer or	Other	Total
No	92	462	9	28	591
	15.57	78.17	1.52	4.74	100.00
Yes	52	92	4	10	158
	32.91	58.23	2.53	6.33	100.00
Total	144	554	13	38	749
	19.23	73.97	1.74	5.07	100.00

Pearson chi2(3) = 27.5660 Pr = 0.000

```
+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |    Do you help look after any
 student a |  family members or friends who
     Raise |     need your support becau
   mentee? |        No        Yes  Prefer no |     Total
-----------+---------------------------------+----------
        No |       262         70         37 |       369
           |     71.00      18.97      10.03 |    100.00
-----------+---------------------------------+----------
       Yes |       100         49          6 |       155
           |     64.52      31.61       3.87 |    100.00
-----------+---------------------------------+----------
     Total |       362        119         43 |       524
           |     69.08      22.71       8.21 |    100.00

          Pearson chi2(2) =  13.3880   Pr = 0.001

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |
 student a |
     Raise |                                        In the past two weeks, how many
school days have you been absent for?
   mentee? |         0         .5          1          2          3        3.5
      4          5          6        6.5          7          9         10 |
Total
-----------+-------------------------------------------------------------------
-------------------------------------------------------------------------+----
------
        No |       203          2         67         35         17          1
      7         12          5          1          3          3          1 |
 365
           |     55.62       0.55      18.36       9.59       4.66       0.27
   1.92       3.29       1.37       0.27       0.82       0.82       0.27 |
100.00
-----------+-------------------------------------------------------------------
-------------------------------------------------------------------------+----
------
       Yes |        48          0         15         19         10          0
      2          9          1          0          4          0          4 |
 117
           |     41.03       0.00      12.82      16.24       8.55       0.00
```

```
   1.71       7.69       0.85       0.00       3.42       0.00       3.42 |
100.00
-----------+-------------------------------------------------------------------
-------------------------------------------------------------------------+----
------
     Total |       251          2         82         54         27          1
      9         21          6          1          7          3          5 |
 482
           |     52.07       0.41      17.01      11.20       5.60       0.21
   1.87       4.36       1.24       0.21       1.45       0.62       1.04 |
100.00


   Is this |
 student a |
     Raise |    In the past two weeks, how many school days have you been absent
for?
   mentee? |        11         12         13         14         15         25
     26 |     Total
-----------+-------------------------------------------------------------------
---------+----------
        No |         0          2          1          5          0          0
      0 |       365
           |      0.00       0.55       0.27       1.37       0.00       0.00
   0.00 |    100.00
-----------+-------------------------------------------------------------------
---------+----------
       Yes |         1          0          1          0          1          1
      1 |       117
           |      0.85       0.00       0.85       0.00       0.85       0.85
   0.85 |    100.00
-----------+-------------------------------------------------------------------
---------+----------
     Total |         1          2          2          5          1          1
      1 |       482
           |      0.21       0.41       0.41       1.04       0.21       0.21
   0.21 |    100.00

         Pearson chi2(19) =  45.5107   Pr = 0.001

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

           | Have you experienced
   Is this | any difficult home or
 student a | personal events (e.g
     Raise |   mental health, f
   mentee? |        No        Yes |     Total
-----------+----------------------+----------
        No |       262        110 |       372
```

```
           |     70.43      29.57 |    100.00
-----------+----------------------+----------
       Yes |        74         82 |       156
           |     47.44      52.56 |    100.00
-----------+----------------------+----------
     Total |       336        192 |       528
           |     63.64      36.36 |    100.00

          Pearson chi2(1) =  25.1130   Pr = 0.000

+----------------+
| Key            |
|----------------|
|   frequency    |
| row percentage |
+----------------+

   Is this |
 student a |  If yes, to what degree have these events impacted on
     Raise |              your ability to engage in s
   mentee? | None of t  A little   Some of t  Most of t  All of th |     Total
-----------+--------------------------------------------------------+----------
        No |        11         36         39         17          6 |       109
           |     10.09      33.03      35.78      15.60       5.50 |    100.00
-----------+--------------------------------------------------------+----------
       Yes |         9         16         22         24          9 |        80
           |     11.25      20.00      27.50      30.00      11.25 |    100.00
-----------+--------------------------------------------------------+----------
     Total |        20         52         61         41         15 |       189
           |     10.58      27.51      32.28      21.69       7.94 |    100.00

          Pearson chi2(4) =  10.2159   Pr = 0.037

.
.         bysort _treated: sum helpseeking2_1 helpseeking2_2 helpseeking2_3
epoc_engagement_pre epoc_perser_pre epoc_optimism_pre epoc_connect_pre
helpseeking_pre SSE_a
> spiration_pre SSE_productivity_pre SSE_belong_pre wemwbs brs_pre

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> _treated = Non - Mentee

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
helpseekin~1 |        276    3.061594    .8569563          1          4
helpseekin~2 |        276    2.949275    .8470051          1          4
helpseekin~3 |        276    3.177536    .8405641          1          4
epoc_enga~re |        276    2.996075    .9619843          1          5
epoc_pers~re |        276    3.192029    .9282387          1          5
-------------+---------------------------------------------------------
epoc_opti~re |        276    3.066425    1.010508          1          5
epoc_conn~re |        276    3.838164    .9280297          1          5
```

```
helpseeki~re |        242    33.16116    9.013295         10         64
SSE_aspir~re |        276    8.203804    1.920465          1         10
SSE_produ~re |        276     6.53688    1.861054          1         10
-------------+---------------------------------------------------------
SSE_belon~re |        276    5.936775    2.090089          1         10
      wemwbs |        262    21.76145    5.263501          7         35
     brs_pre |        273    3.122161    .6004375          1          5

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> _treated = Mentee

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
helpseekin~1 |        148    3.344595    .6358115          2          4
helpseekin~2 |        148    3.256757    .6401703          2          4
helpseekin~3 |        148    3.378378    .6325137          2          4
epoc_enga~re |         36    2.736111    1.012325        1.5          5
epoc_pers~re |        148    3.103604    .9303311          1          5
-------------+---------------------------------------------------------
epoc_opti~re |        148    2.927365    1.044199          1          5
epoc_conn~re |        148    3.689189    .9193989          1          5
helpseeki~re |         29    30.82759    9.562086         16         50
SSE_aspir~re |         37    7.439189    1.893341        2.5         10
SSE_produ~re |         37    6.055985    1.646507       2.75   8.833333
-------------+---------------------------------------------------------
SSE_belon~re |         37    5.445946    2.037857   1.333333   9.166667
      wemwbs |         35    20.55629    5.725057          7         35
     brs_pre |        147    2.900907    .6246454   1.166667          5

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> _treated = .

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
helpseekin~1 |         33    3.272727    .6261353          2          4
helpseekin~2 |         32     2.90625    .7770654          1          4
helpseekin~3 |         30         3.1    .7588558          2          4
epoc_enga~re |         61     2.92623     .976115          1          5
epoc_pers~re |         65    3.173077    .9792008          1          5
-------------+---------------------------------------------------------
epoc_opti~re |         13    2.961538    .8281893       1.75        4.5
epoc_conn~re |         13    4.038462    .9119927       2.25          5
helpseeki~re |         69    33.76812    10.02371         11         64
SSE_aspir~re |        102    8.049837    2.005776          1         10
SSE_produ~re |        103     6.13846    1.935571          1         10
-------------+---------------------------------------------------------
SSE_belon~re |        102    5.551634    2.115606          1         10
      wemwbs |         61    21.92066     4.83998      14.75         35
     brs_pre |         13    3.102564    .4978586          2   4.166667
```

```
.         foreach var of varlist helpseeking2_1 helpseeking2_2 helpseeking2_3
epoc_engagement_pre epoc_perser_pre epoc_optimism_pre epoc_connect_pre
helpseeking_pre SSE
> _aspiration_pre SSE_productivity_pre SSE_belong_pre wemwbs brs_pre {
  2.         ttest `var', by(_treated)
  3.         }

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    3.061594    .0515827    .8569563    2.960047    3.163141
  Mentee |     148    3.344595    .0522634    .6358115     3.24131    3.447879
---------+--------------------------------------------------------------------
Combined |     424    3.160377    .0387346    .7975944    3.084241    3.236514
---------+--------------------------------------------------------------------
    diff |           -.2830004    .0801819               -.440606   -.1253948
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =  -3.5295
H0: diff = 0                                     Degrees of freedom =      422

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0002         Pr(|T| > |t|) = 0.0005          Pr(T > t) = 0.9998

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    2.949275    .0509837    .8470051    2.848907    3.049643
  Mentee |     148    3.256757    .0526217    .6401703    3.152764    3.360749
---------+--------------------------------------------------------------------
Combined |     424    3.056604    .0385577     .793951    2.980815    3.132392
---------+--------------------------------------------------------------------
    diff |           -.3074814    .0795899              -.4639234   -.1510394
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =  -3.8633
H0: diff = 0                                     Degrees of freedom =      422

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0001         Pr(|T| > |t|) = 0.0001          Pr(T > t) = 0.9999

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    3.177536     .050596    .8405641    3.077932    3.277141
  Mentee |     148    3.378378    .0519923    .6325137    3.275629    3.481127
---------+--------------------------------------------------------------------
Combined |     424    3.247642     .037854     .779461    3.173236    3.322047
---------+--------------------------------------------------------------------
    diff |           -.2008421    .0789037              -.3559353    -.045749
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =  -2.5454
```

```
H0: diff = 0                                     Degrees of freedom =      422

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0056         Pr(|T| > |t|) = 0.0113          Pr(T > t) = 0.9944

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    2.996075    .0579047    .9619843    2.882082    3.110068
  Mentee |      36    2.736111    .1687208    1.012325     2.39359    3.078633
---------+--------------------------------------------------------------------
Combined |     312    2.966079     .054905    .9698163    2.858047    3.074111
---------+--------------------------------------------------------------------
    diff |            .2599638    .1714971               -.0774817    .5974093
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.5158
H0: diff = 0                                     Degrees of freedom =      310

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9347         Pr(|T| > |t|) = 0.1306          Pr(T > t) = 0.0653

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    3.192029    .0558734    .9282387    3.082035    3.302023
  Mentee |     148    3.103604    .0764727    .9303311    2.952476    3.254732
---------+--------------------------------------------------------------------
Combined |     424    3.161164    .0451079    .9288285      3.0725    3.249827
---------+--------------------------------------------------------------------
    diff |            .0884254    .0946451               -.0976092      .27446
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   0.9343
H0: diff = 0                                     Degrees of freedom =      422

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8247         Pr(|T| > |t|) = 0.3507          Pr(T > t) = 0.1753

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    3.066425    .0608255    1.010508    2.946682    3.186168
  Mentee |     148    2.927365    .0858326    1.044199     2.75774     3.09699
---------+--------------------------------------------------------------------
Combined |     424    3.017885    .0496966    1.023315    2.920202    3.115568
---------+--------------------------------------------------------------------
    diff |            .1390603    .1041611               -.065679    .3437995
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.3350
H0: diff = 0                                     Degrees of freedom =      422

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
```

```
 Pr(T < t) = 0.9087         Pr(|T| > |t|) = 0.1826          Pr(T > t) = 0.0913

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    3.838164    .0558608    .9280297    3.728195    3.948133
  Mentee |     148    3.689189    .0755741    .9193989    3.539837    3.838541
---------+--------------------------------------------------------------------
Combined |     424    3.786164    .0450031    .9266697    3.697706    3.874621
---------+--------------------------------------------------------------------
    diff |            .1489751    .0942442               -.0362714    .3342215
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.5807
H0: diff = 0                                     Degrees of freedom =      422

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9427         Pr(|T| > |t|) = 0.1147          Pr(T > t) = 0.0573

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     242    33.16116    .5793965    9.013295    32.01983    34.30248
  Mentee |      29    30.82759    1.775635    9.562086    27.19036    34.46481
---------+--------------------------------------------------------------------
Combined |     271    32.91144    .5518104    9.083945    31.82504    33.99784
---------+--------------------------------------------------------------------
    diff |            2.333571    1.782705               -1.176257    5.843399
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.3090
H0: diff = 0                                     Degrees of freedom =      269

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9042         Pr(|T| > |t|) = 0.1916          Pr(T > t) = 0.0958

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    8.203804    .1155984    1.920465    7.976234    8.431375
  Mentee |      37    7.439189    .3112634    1.893341    6.807918    8.070461
---------+--------------------------------------------------------------------
Combined |     313    8.113419    .1090998    1.930172    7.898754    8.328083
---------+--------------------------------------------------------------------
    diff |            .7646152    .3356735                .1041369    1.425093
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   2.2779
H0: diff = 0                                     Degrees of freedom =      311

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9883         Pr(|T| > |t|) = 0.0234          Pr(T > t) = 0.0117

Two-sample t test with equal variances
```

```
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276     6.53688    .1120223    1.861054    6.316349     6.75741
  Mentee |      37    6.055985    .2706841    1.646507    5.507012    6.604957
---------+--------------------------------------------------------------------
Combined |     313    6.480033     .104067    1.841134    6.275271    6.684795
---------+--------------------------------------------------------------------
    diff |            .4808951    .3216951               -.152079    1.113869
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.4949
H0: diff = 0                                     Degrees of freedom =      311

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9320         Pr(|T| > |t|) = 0.1360          Pr(T > t) = 0.0680

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     276    5.936775    .1258086    2.090089    5.689105    6.184446
  Mentee |      37    5.445946    .3350216    2.037857    4.766491    6.125401
---------+--------------------------------------------------------------------
Combined |     313    5.878754    .1179536    2.086813    5.646669    6.110839
---------+--------------------------------------------------------------------
    diff |            .4908294    .3648694              -.2270954    1.208754
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.3452
H0: diff = 0                                     Degrees of freedom =      311

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9102         Pr(|T| > |t|) = 0.1795          Pr(T > t) = 0.0898

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Non - Me |     262    21.76145    .3251802    5.263501    21.12114    22.40176
  Mentee |      35    20.55629    .9677113    5.725057    18.58966    22.52291
---------+--------------------------------------------------------------------
Combined |     297    21.61943    .3089295    5.323995    21.01145     22.2274
---------+--------------------------------------------------------------------
    diff |            1.205165    .9571991              -.6786396    3.088969
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   1.2591
H0: diff = 0                                     Degrees of freedom =      295

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8955         Pr(|T| > |t|) = 0.2090          Pr(T > t) = 0.1045

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
```

```
Non - Me |     273    3.122161    .0363401    .6004375    3.050617    3.193705
  Mentee |     147    2.900907    .0515199    .6246454    2.799086    3.002728
---------+--------------------------------------------------------------------
Combined |     420    3.044722    .0301252    .6173832    2.985507    3.103938
---------+--------------------------------------------------------------------
    diff |            .2212541    .0623022                .0987894    .3437189
------------------------------------------------------------------------------
    diff = mean(Non - Me) - mean(Mentee)                          t =   3.5513
H0: diff = 0                                     Degrees of freedom =      418

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9998         Pr(|T| > |t|) = 0.0004          Pr(T > t) = 0.0002


. 
. ************************
. *** Demographics for those who could not be matched
. ************************
.         foreach var of varlist student_year student_gender student_australia
student_language student_disability student_live student_support student_absent
student_d
> ifficultevent student_impact {
  2.         tab student_mentee if _notmatched==1
  3.         }

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
```

```
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

    Is this |
  student a |
      Raise |
```

```
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
        Yes |         27      100.00      100.00
------------+-----------------------------------
      Total |         27      100.00

.
.         sum helpseeking2_1 helpseeking2_2 helpseeking2_3 epoc_engagement_pre
epoc_perser_pre epoc_optimism_pre epoc_connect_pre SSE_aspiration_pre
SSE_productivity_pr
> e SSE_belong_pre wemwbs brs_pre if _notmatched==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
helpseekin~1 |          5         3.4    .5477226          3          4
helpseekin~2 |          4        3.25    .9574271          2          4
helpseekin~3 |          3           3           1          2          4
epoc_enga~re |          4       2.375     .595119          2       3.25
epoc_pers~re |          8     2.59375    .8957987       1.75       4.25
-------------+---------------------------------------------------------
epoc_opti~re |          5         2.6    .9117291       1.75          4
epoc_conn~re |          5         4.1    .9117291          3          5
SSE_aspir~re |          4      6.6875    2.003902       5.25        9.5
SSE_produ~re |          4    4.958333    1.119069   3.666667       6.25
SSE_belon~re |          4    4.191667    1.147743        2.6   5.333333
-------------+---------------------------------------------------------
      wemwbs |          4      17.325    2.636848      14.75      20.73
     brs_pre |          5         2.8    .4624812          2   3.166667

. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\02_define_match_
> 26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:31:41
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\03_matched_analy
> sis_26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:31:41

.
.
.
.
. ***********************************
. ** Conducting the analyses
. ***********************************
.
. *** All outcomes examined
.
. sum epoc_engagement_change epoc_perser_change epoc_optimism_change
epoc_connect_change epoc_happy_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
epoc_enga~ge |        125    .1813333    .9163651      -2.25        3.5
epoc_pers~ge |        214    .1674455    .8044684       -2.5       3.25
epoc_opti~ge |        182    .2408425    .7633557       -1.5       2.75
epoc_conn~ge |        182    .1694139    .7203256      -2.25        2.5
epoc_happ~ge |        125    .1226667    .7671702      -2.25          3

. sum helpseeking2_1_change helpseeking2_2_change helpseeking2_3_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
hel~1_change |        209    .2296651    .8575908         -2          3
hel~2_change |        208    .2355769    .8610092         -2          2
hel~3_change |        208    .3028846    .8395946         -2          2

. sum belonging_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
belonging~ge |        192    .1012153    .6496153  -2.333333   2.142857

. sum SSE_aspiration_change SSE_belong_change SSE_productivity_change
SSE_total_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
SSE_aspir~ge |        137   -1.354015    1.709641         -8          3
SSE_belon~ge |        137    .1493917    1.542948  -4.166667   4.333333
SSE_produ~ge |        137   -.0917441    1.426916  -5.416667          5
```

```
SSE_total~ge |        137   -.4321223    1.284018  -5.305556        3.5

. sum brs_change wembs_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
  brs_change |        181    .0441068    .7188354  -2.166667   2.166667
wembs_change |        115    .2803478    4.439234     -16.41      12.11

.
. sum z_epoc_engagement_change z_epoc_perser_change z_epoc_optimism_change
z_epoc_connect_change z_helpseeking2_1_change z_helpseeking2_2_change
z_helpseeking2_3_change
>  z_belonging_change z_SSE_total_change z_brs_change z_wembs_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
z_epoc_en~ge |        125    4.89e-09           1  -2.653237   3.621555
z_epoc_pe~ge |        214   -5.29e-09           1  -3.315786    3.83179
z_epoc_op~ge |        182    5.49e-09           1  -2.280513    3.28701
z_epoc_co~ge |        182    5.32e-10           1  -3.358778   3.235462
z_h~1_change |        209   -8.27e-09           1  -2.599917   3.230369
-------------+---------------------------------------------------------
z_h~2_change |        208    6.02e-09           1  -2.596461    2.04925
z_h~3_change |        208   -5.59e-09           1  -2.742853   2.021351
z_belongi~ge |        192    2.47e-09           1  -3.747677   3.142848
z_SSE_tot~ge |        137   -3.40e-10           1  -3.795455   3.062357
z_brs_change |        181    6.40e-09           1  -3.075493   2.952776
-------------+---------------------------------------------------------
z_wembs_ch~e |        115   -3.24e-11           1  -3.759736   2.664796

.
. * sum z_epoc_engagement_change z_epoc_perser_change z_epoc_optimism_change
z_epoc_connect_change z_belonging_change z_belonging_change z_SSE_total_change
z_brs_change
>  z_wembs_change
.
.
.
.
. ****************************
. *** Part 1 - matched comparson
. ****************************
.
. **** How many in matched cohort
. tab student_mentee

    Is this |
  student a |
     Raise |
    mentee? |      Freq.     Percent        Cum.
------------+-----------------------------------
         No |        597       77.33       77.33
        Yes |        175       22.67      100.00
```

```
------------+-----------------------------------
      Total |        772      100.00

. drop if _treated==.
(348 observations deleted)

. count
  424

.
. codebook student_mentee

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
student_mentee
                                                      Is this student a Raise
mentee?
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------

                  Type: Numeric (byte)
                 Label: student_mentee_

                 Range: [0,1]                         Units: 1
         Unique values: 2                         Missing .: 0/424

            Tabulation: Freq.   Numeric  Label
                          276         0  No
                          148         1  Yes

.
. rename student_gender gender

. gen student_gender=gender
(2 missing values generated)

. recode student_gender 1=0 2=1 3=0 4=0
(422 changes made to student_gender)

.
. save "raise_matchedclean.dta", replace
file raise_matchedclean.dta saved

.
. **** Change scores
. sum epoc_engagement_change epoc_perser_change epoc_optimism_change
epoc_connect_change helpseeking2_1_change helpseeking2_2_change
helpseeking2_3_change belonging_cha
> nge SSE_aspiration_change SSE_belong_change SSE_productivity_change
SSE_total_change brs_change wembs_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
```

```
-------------+--------------------------------------------------------
epoc_enga~ge |        112    .1443452    .9086795      -2.25        3.5
epoc_pers~ge |        197    .1298646    .7616857       -2.5          2
epoc_opti~ge |        178    .2223783     .756937       -1.5       2.75
epoc_conn~ge |        178     .170412    .7276606      -2.25        2.5
hel~1_change |        200        .235    .8622601         -2          3
-------------+--------------------------------------------------------
hel~2_change |        199    .2512563      .84518         -2          2
hel~3_change |        199    .3115578    .8429249         -2          2
belonging~ge |        183    .1076243    .6553943  -2.333333   2.142857
SSE_aspir~ge |        118    -1.32839    1.751112         -8          3
SSE_belon~ge |        118    .1019774    1.571846  -4.166667   4.333333
-------------+--------------------------------------------------------
SSE_produ~ge |        118   -.1415062     1.44602  -5.416667          5
SSE_total~ge |        118   -.4559729    1.331939  -5.305556        3.5
  brs_change |        177    .0422787    .7221972  -2.166667   2.166667
wembs_change |        103    .3671845    4.329821     -16.41      12.11


. 
. ****************************
. ** Looking at change scores overall
. ****************************
. bysort _treated: sum epoc_engagement_change epoc_perser_change
epoc_optimism_change epoc_connect_change helpseeking2_1_change
helpseeking2_2_change helpseeking2_3_cha
> nge belonging_change SSE_aspiration_change SSE_belong_change
SSE_productivity_change SSE_total_change brs_change wembs_change

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> _treated = Non - Mentee

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+--------------------------------------------------------
epoc_enga~ge |         95    .1087719    .8917531       -1.5        3.5
epoc_pers~ge |         95         .15    .7140311       -1.5          2
epoc_opti~ge |         83     .184739    .7331033       -1.5       2.75
epoc_conn~ge |         83    .0502008    .7037381      -1.75       2.25
hel~1_change |         99    .0606061    .8429562         -2          3
-------------+--------------------------------------------------------
hel~2_change |         99    .0909091    .8217814         -2          2
hel~3_change |         98    .1938776    .8453409         -2          2
belonging~ge |         88    .0332792    .6604462  -2.333333   2.142857
SSE_aspir~ge |        101   -1.316832    1.670829         -8          3
SSE_belon~ge |        101    .2640264     1.50156  -4.166667   4.333333
-------------+--------------------------------------------------------
SSE_produ~ge |        101    .0399715    1.315767  -5.416667          5
SSE_total~ge |        101   -.3376113    1.237613  -5.305556        3.5
  brs_change |         83   -.0251004    .5150208  -1.166667   1.333333
wembs_change |         87    .5434483    3.998817     -10.06      12.11

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
```

```
--------
-> _treated = Mentee

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
epoc_enga~ge |         17    .3431373    1.003415      -2.25          2
epoc_pers~ge |        102    .1111111    .8066123       -2.5       1.75
epoc_opti~ge |         95    .2552632    .7795414       -1.5          2
epoc_conn~ge |         95    .2754386    .7355858      -2.25        2.5
hel~1_change |        101    .4059406    .8506259         -2          2
-------------+---------------------------------------------------------
hel~2_change |        100         .41    .8420154         -2          2
hel~3_change |        101    .4257426    .8288128         -2          2
belonging~ge |         95    .1764912    .6465225  -1.666667        1.5
SSE_aspir~ge |         17   -1.397059    2.229172         -5       2.25
SSE_belon~ge |         17   -.8607843    1.680659  -3.833333   2.266666
-------------+---------------------------------------------------------
SSE_produ~ge |         17   -1.219697    1.739806  -4.583333   .8333335
SSE_total~ge |         17    -1.15918    1.669116  -4.138889   .8611107
  brs_change |         94    .1017731    .8634537  -2.166667   2.166667
wembs_change |         16   -.5912498    5.885818     -16.41   8.040001


.
. foreach var of varlist epoc_engagement_change epoc_perser_change
epoc_optimism_change epoc_connect_change helpseeking2_1_change
helpseeking2_2_change helpseeking2_3_c
> hange belonging_change SSE_aspiration_change SSE_belong_change
SSE_productivity_change SSE_total_change brs_change wembs_change {
  2.
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated,
cluster(school)
  3.
. *** Outcomes adjusting for student gender and difficult live event
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated
student_gender student_difficultevent, cluster(school)
  4.
. *** Interaction between student gender and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_gender, cluster(school)
  5.
. *** Interaction between difficult life event and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_difficultevent, cluster(school)
  6.         }

Linear regression                               Number of obs =     112
                                                Replications  =     500
                                                Wald chi2(1)  =    0.74
                                                Prob > chi2   =  0.3893
                                                R-squared     =  0.0086
                                                Adj R-squared = -0.0004
                                                Root MSE      =  0.9088
```

```
                                   (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
epoc_enga~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2343653   .2722129     0.86   0.389    -.2991621    .7678927
       _cons |   .1087719    .104751     1.04   0.299    -.0965362    .3140801
------------------------------------------------------------------------------

Linear regression                                       Number of obs =     112
                                                        Replications  =     500
                                                        Wald chi2(3)  =    3.18
                                                        Prob > chi2   =  0.3641
                                                        R-squared     =  0.0188
                                                        Adj R-squared = -0.0085
                                                        Root MSE      =  0.9125

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
--------
                         |   Observed   Bootstrap
Normal-based
epoc_engagement_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
--------
              _treated |   .1553808   .3223684     0.48   0.630    -.4764497
.7872113
        student_gender |   .1394512   .1977703     0.71   0.481    -.2481714
.5270738
student_difficultevent |   .1125428     .12246     0.92   0.358    -.1274744
 .35256
                 _cons |   .0164986     .12124     0.14   0.892    -.2211275
.2541246
------------------------------------------------------------------------------
--------

Linear regression                                       Number of obs =     112
                                                        Replications  =     488
                                                        Wald chi2(3)  =    4.63
                                                        Prob > chi2   =  0.2006
                                                        R-squared     =  0.0252
                                                        Adj R-squared = -0.0019
                                                        Root MSE      =  0.9095

                                               (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
---------
                          |   Observed   Bootstrap
Normal-based
 epoc_engagement_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
```

```
------------------------+------------------------------------------------------------
---------
               _treated |
                Mentee  |  -.1819892   .8302502    -0.22   0.826     -1.80925
1.445271
      1.student_gender |   .0771017   .1820241     0.42   0.672     -.279659
.4338623
                       |
_treated#student_gender |
             Mentee#1  |   .5506761   .8893863     0.62   0.536    -1.192489
2.293841
                       |
                 _cons |   .0819892   .0843863     0.97   0.331    -.0834049
.2473834
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    112
                                                        Replications  =    500
                                                        Wald chi2(3)  =   3.46
                                                        Prob > chi2   = 0.3254
                                                        R-squared     = 0.0310
                                                        Adj R-squared = 0.0041
                                                        Root MSE      = 0.9068

                                                     (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap                        
Normal-based
         epoc_engagement_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
-------------------------------+----------------------------------------------
-----------------
                      _treated |
                       Mentee  |  -.2227011    .435966    -0.51   0.609
-1.077179    .6317765
                               |
         student_difficultevent |
                          Yes  |    .028425   .0894595     0.32   0.751
-.1469124    .2037624
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   .6950599   .4680111     1.49   0.138
-.222225    1.612345
                               |
                         _cons |   .0977011   .0962892     1.01   0.310
-.0910223    .2864246
------------------------------------------------------------------------------
-----------------
```

```
Linear regression                                       Number of obs =     197
                                                        Replications  =     499
                                                        Wald chi2(1)  =    0.08
                                                        Prob > chi2   =  0.7790
                                                        R-squared     =  0.0007
                                                        Adj R-squared = -0.0045
                                                        Root MSE      =  0.7634

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
epoc_pers~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.0388889   .1385915    -0.28   0.779    -.3105232    .2327455
       _cons |        .15   .0886772     1.69   0.091    -.0238042    .3238042
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     197
                                                        Replications  =     499
                                                        Wald chi2(3)  =    2.39
                                                        Prob > chi2   =  0.4946
                                                        R-squared     =  0.0116
                                                        Adj R-squared = -0.0037
                                                        Root MSE      =  0.7631

                                          (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
    epoc_perser_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |  -.0708086   .1600951    -0.44   0.658    -.3845892
.2429721
        student_gender |   .0731195   .1049018     0.70   0.486    -.1324842
.2787233
student_difficultevent |   .1359355   .1019035     1.33   0.182    -.0637918
.3356628
                 _cons |   .0716573   .0688934     1.04   0.298    -.0633714
.2066859
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     197
                                                        Replications  =     499
                                                        Wald chi2(3)  =    0.74
                                                        Prob > chi2   =  0.8642
```

```
                                                      R-squared     =  0.0045
                                                      Adj R-squared = -0.0110
                                                      Root MSE      =  0.7658

                                           (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
epoc_perser_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
    _treated |
      Mentee |  -.0253813   .1509091    -0.17   0.866    -.3211577
 .270395
1.student_gender |   .1300098   .1694673     0.77   0.443      -.20214
.4621595
             |
_treated#student_gender |
  Mentee#1 |  -.0752863   .1950849    -0.39   0.700    -.4576457
 .307073
             |
       _cons |   .1048387   .0725672     1.44   0.149    -.0373904
.2470679
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =     197
                                                      Replications  =     499
                                                      Wald chi2(3)  =    2.99
                                                      Prob > chi2   =  0.3931
                                                      R-squared     =  0.0116
                                                      Adj R-squared = -0.0038
                                                      Root MSE      =  0.7631

                                                    (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         Normal-based
        epoc_perser_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
-----------------------------+------------------------------------------------
                   _treated |
                    Mentee |   .0072402   .2119066     0.03   0.973
-.408089    .4225695
                             |
         student_difficultevent |
```

```
                           Yes  |   .2191286   .1351937     1.62   0.105
-.0458461    .4841033
                                |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.1406972   .2308324    -0.61   0.542
-.5931205     .311726
                                |
                          _cons |   .0646552   .0895993     0.72   0.471
-.1109563    .2402666
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     178
                                                        Replications  =     499
                                                        Wald chi2(1)  =    0.16
                                                        Prob > chi2   =  0.6859
                                                        R-squared     =  0.0022
                                                        Adj R-squared = -0.0035
                                                        Root MSE      =  0.7583

                                (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
epoc_opti~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .0705242   .1743546     0.40   0.686    -.2712045    .4122529
       _cons |    .184739   .1261653     1.46   0.143    -.0625405    .4320184
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     178
                                                        Replications  =     499
                                                        Wald chi2(3)  =    7.26
                                                        Prob > chi2   =  0.0640
                                                        R-squared     =  0.0298
                                                        Adj R-squared =  0.0131
                                                        Root MSE      =  0.7520

                                            (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
  epoc_optimism_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
--------
               _treated |   .0073977   .1940147     0.04   0.970    -.3728642
.3876596
          student_gender |   .2191346   .1190902     1.84   0.066    -.0142778
```

```
.452547
student_difficultevent |   .1196739    .112974     1.06   0.289    -.1017512
.341099
                 _cons |    .061791   .1229129     0.50   0.615    -.1791139
.3026959
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   9.38
                                                        Prob > chi2   = 0.0247
                                                        R-squared     = 0.0360
                                                        Adj R-squared = 0.0194
                                                        Root MSE      = 0.7496

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                         |   Observed   Bootstrap                         
Normal-based
   epoc_optimism_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
---------
               _treated |
                Mentee  |   .1700758   .1870564     0.91   0.363     -.196548
.5366995
       1.student_gender |   .4218615   .1587149     2.66   0.008      .110786
.7329369
                        |
_treated#student_gender |
              Mentee#1  |  -.3479978   .1860402    -1.87   0.061      -.71263
.0166343
                        |
                  _cons |   .0424242   .1381136     0.31   0.759    -.2282734
.3131219
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =  13.45
                                                        Prob > chi2   = 0.0038
                                                        R-squared     = 0.0212
                                                        Adj R-squared = 0.0043
                                                        Root MSE      = 0.7553

                                                    (Replications based on 13
```

```
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap                        
Normal-based
           epoc_optimism_change | coefficient  std. err.      z    P>|z|     
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                       _treated |
                        Mentee  |   .2025935   .2314986     0.88   0.381     
-.2511354    .6563225
                                |
         student_difficultevent |
                            Yes |   .3098239   .0893996     3.47   0.001     
.134604    .4850439
                                |
_treated#student_difficultevent |
                     Mentee#Yes |  -.3202406   .2186856    -1.46   0.143     
-.7488565    .1083753
                                |
                          _cons |   .0578231   .1493222     0.39   0.699     
-.234843    .3504893
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(1)  =   4.53
                                                        Prob > chi2   = 0.0333
                                                        R-squared     = 0.0240
                                                        Adj R-squared = 0.0184
                                                        Root MSE      = 0.7209

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
epoc_conn~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2252378    .105836     2.13   0.033     .0178031    .4326725
       _cons |   .0502008   .0919115     0.55   0.585    -.1299425    .2303441
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   9.20
                                                        Prob > chi2   = 0.0267
                                                        R-squared     = 0.0336
                                                        Adj R-squared = 0.0170
                                                        Root MSE      = 0.7215
```

```
                                                (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
-------
                        |   Observed   Bootstrap                         
Normal-based
   epoc_connect_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
----------------------+-------------------------------------------------------
-------
              _treated |   .1900792   .1117049     1.70   0.089    -.0288584
.4090168
        student_gender |   .1184278   .0891702     1.33   0.184    -.0563425
.2931982
student_difficultevent |   .0769311   .0952245     0.81   0.419    -.1097056
.2635677
                 _cons |  -.0212647   .0865107    -0.25   0.806    -.1908225
.1482931
------------------------------------------------------------------------------
-------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   6.77
                                                        Prob > chi2   = 0.0798
                                                        R-squared     = 0.0313
                                                        Adj R-squared = 0.0146
                                                        Root MSE      = 0.7223

                                               (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
    epoc_connect_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
----------------------+-------------------------------------------------------
---------
              _treated |
               Mentee  |    .167803   .1560814     1.08   0.282    -.1381108
.4737169
      1.student_gender |   .0904221   .0618268     1.46   0.144    -.0307563
.2116004
                       |
_treated#student_gender |
             Mentee#1  |   .0614719   .1734833     0.35   0.723    -.2785492
 .401493
                       |
                 _cons |    .019697   .1028097     0.19   0.848    -.1818063
.2212002
```

```
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =  28.54
                                                        Prob > chi2   = 0.0000
                                                        R-squared     = 0.0417
                                                        Adj R-squared = 0.0252
                                                        Root MSE      = 0.7184

                                                 (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
            epoc_connect_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .3754252   .1329186     2.82   0.005
.1149095    .6359409
                               |
         student_difficultevent |
                           Yes  |   .2761605   .0604873     4.57   0.000
.1576076    .3947134
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.3510718   .1521102    -2.31   0.021
-.6492022   -.0529414
                               |
                         _cons |  -.0629252   .0716884    -0.88   0.380
-.2034318    .0775815
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(1)  =   6.19
                                                        Prob > chi2   = 0.0129
                                                        R-squared     = 0.0403
                                                        Adj R-squared = 0.0355
                                                        Root MSE      = 0.8468

                                   (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
hel~1_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
```

```
-------------+----------------------------------------------------------------
    _treated |   .3453345   .1388557     2.49   0.013     .0731824    .6174866
       _cons |   .0606061   .1043638     0.58   0.561    -.1439432    .2651553
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(3)  =   7.43
                                                        Prob > chi2   = 0.0595
                                                        R-squared     = 0.0416
                                                        Adj R-squared = 0.0269
                                                        Root MSE      = 0.8506

                                             (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap                         
Normal-based
 helpseeking2_1_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
--------
              _treated |   .3387029   .1483499     2.28   0.022     .0479424
.6294634
        student_gender |  -.0070076   .1187719    -0.06   0.953    -.2397963
.2257811
student_difficultevent |   .0639368   .1362832     0.47   0.639    -.2031734
.331047
                 _cons |   .0390464   .1096325     0.36   0.722    -.1758293
.253922
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(3)  =   7.89
                                                        Prob > chi2   = 0.0484
                                                        R-squared     = 0.0427
                                                        Adj R-squared = 0.0280
                                                        Root MSE      = 0.8501

                                              (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
  helpseeking2_1_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
```

```
------------------------+------------------------------------------------------------
---------
               _treated |
                Mentee  |   .2662338   .1565724     1.70   0.089    -.0406425
  .57311
      1.student_gender |  -.0909091   .1981017    -0.46   0.646    -.4791814
.2973632
                       |
_treated#student_gender |
              Mentee#1  |   .1744442   .2799472     0.62   0.533    -.3742421
.7231305
                       |
                 _cons |   .0909091   .0578889     1.57   0.116     -.022551
.2043692
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(3)  =   8.02
                                                        Prob > chi2   = 0.0456
                                                        R-squared     = 0.0457
                                                        Adj R-squared = 0.0311
                                                        Root MSE      = 0.8488

                                                  (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
          helpseeking2_1_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .2393548     .15033     1.59   0.111
-.0552865    .5339961
                               |
         student_difficultevent |
                          Yes  |  -.0536181   .1487743    -0.36   0.719
-.3452104    .2379741
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   .2238142   .1585258     1.41   0.158
-.0868906    .5345191
                               |
                         _cons |   .0806452   .1238129     0.65   0.515
-.1620237    .3233141
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
```

```
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(1)  =   5.18
                                                        Prob > chi2   = 0.0228
                                                        R-squared     = 0.0358
                                                        Adj R-squared = 0.0309
                                                        Root MSE      = 0.8320

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
hel~2_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .3190909   .1401629     2.28   0.023     .0443766    .5938052
       _cons |   .0909091   .0843516     1.08   0.281     -.074417    .2562352
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =  12.75
                                                        Prob > chi2   = 0.0052
                                                        R-squared     = 0.0449
                                                        Adj R-squared = 0.0302
                                                        Root MSE      = 0.8323

                                             (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
 helpseeking2_2_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
--------
              _treated |   .2745818   .1554207     1.77   0.077    -.0300371
.5792008
        student_gender |   .1480357   .1301637     1.14   0.255    -.1070804
.4031519
student_difficultevent |   .0586632   .1166224     0.50   0.615    -.1699125
.2872389
                 _cons |   .0196392   .0996582     0.20   0.844    -.1756872
.2149657
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
```

```
                                                      Wald chi2(3)  =  11.01
                                                      Prob > chi2   = 0.0117
                                                      R-squared     = 0.0474
                                                      Adj R-squared = 0.0327
                                                      Root MSE      = 0.8312

                                          (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
  helpseeking2_2_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
               _treated |
                Mentee  |   .1861472   .2164618     0.86   0.390    -.2381102
.6104046
       1.student_gender |   .0454545   .2396791     0.19   0.850    -.4243078
.5152169
                        |
_treated#student_gender |
              Mentee#1  |   .2098821   .3383048     0.62   0.535    -.4531831
.8729473
                        |
                  _cons |   .0757576   .0767315     0.99   0.323    -.0746334
.2261485
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    199
                                                      Replications  =    499
                                                      Wald chi2(3)  =   5.44
                                                      Prob > chi2   = 0.1424
                                                      R-squared     = 0.0386
                                                      Adj R-squared = 0.0238
                                                      Root MSE      = 0.8350

                                                    (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         Normal-based
          helpseeking2_2_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
-----------------------------+------------------------------------------------
                      _treated |
                       Mentee  |   .2662936   .1511983     1.76   0.078
-.0300495    .5626368
```

```
                                |
         student_difficultevent |
                            Yes |   .0274629   .1843564     0.15   0.882
-.3338689    .3887948
                                |
_treated#student_difficultevent |
                     Mentee#Yes |   .0961865    .216707     0.44   0.657
-.3285513    .5209243
                                |
                          _cons |   .0806452   .0934063     0.86   0.388
-.1024278    .2637181
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(1)  =   2.26
                                                        Prob > chi2   = 0.1330
                                                        R-squared     = 0.0190
                                                        Adj R-squared = 0.0140
                                                        Root MSE      = 0.8370

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
hel~3_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .231865   .1543424     1.50   0.133    -.0706405    .5343706
       _cons |   .1938776   .1235447     1.57   0.117    -.0482657    .4360208
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   5.69
                                                        Prob > chi2   = 0.1275
                                                        R-squared     = 0.0287
                                                        Adj R-squared = 0.0138
                                                        Root MSE      = 0.8371

                                            (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
 helpseeking2_3_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |   .2078284   .1661073     1.25   0.211    -.1177359
```

```
.5333928
        student_gender |   .0113056   .1369903     0.08   0.934    -.2571906
.2798017
student_difficultevent |   .1667145   .1344752     1.24   0.215     -.096852
.430281
                 _cons |   .1271273   .1311182     0.97   0.332    -.1298597
.3841143
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   4.71
                                                        Prob > chi2   = 0.1945
                                                        R-squared     = 0.0252
                                                        Adj R-squared = 0.0102
                                                        Root MSE      = 0.8386

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
  helpseeking2_3_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |   .1025641   .2202418     0.47   0.641    -.3291019
.5342301
       1.student_gender |  -.1095571   .1918069    -0.57   0.568    -.4854918
.2663776
                        |
_treated#student_gender |
              Mentee#1  |   .2677492   .2766732     0.97   0.333    -.2745203
.8100187
                        |
                  _cons |   .2307692    .109055     2.12   0.034     .0170253
.4445132
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   3.59
                                                        Prob > chi2   = 0.3090
                                                        R-squared     = 0.0293
                                                        Adj R-squared = 0.0144
                                                        Root MSE      = 0.8368
```

```
                                                    (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         
Normal-based
      helpseeking2_3_change | coefficient  std. err.      z    P>|z|     
[95% conf. interval]
----------------------------+-------------------------------------------------
                    _treated |
                     Mentee  |    .172459   .1657615     1.04   0.298    
-.1524276    .4973456
                             |
         student_difficultevent |
                         Yes  |   .1227293   .1598129     0.77   0.443    
-.1904982    .4359568
                             |
_treated#student_difficultevent |
                  Mentee#Yes  |   .0866825   .1757234     0.49   0.622    
-.257729     .431094
                             |
                       _cons |    .147541   .1439733     1.02   0.305    
-.1346415    .4297234
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(1)  =   2.32
                                                        Prob > chi2   = 0.1278
                                                        R-squared     = 0.0120
                                                        Adj R-squared = 0.0065
                                                        Root MSE      = 0.6533

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
belonging~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .143212   .0940507     1.52   0.128     -.041124     .327548
       _cons |   .0332792   .0958349     0.35   0.728    -.1545537    .2211122
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(3)  =  11.40
                                                        Prob > chi2   = 0.0098
                                                        R-squared     = 0.0420
```

```
                                                      Adj R-squared = 0.0259
                                                      Root MSE      = 0.6468

                                          (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
belonging_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
     _treated |   .0950238   .1046061     0.91   0.364    -.1100004
.3000479
student_gender |   .1092203    .073614     1.48   0.138    -.0350605
.253501
student_difficultevent |   .1924556   .1040727     1.85   0.064    -.0115232
.3964344
       _cons |  -.0758305   .1084406    -0.70   0.484    -.2883701
.1367091
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    183
                                                      Replications  =    499
                                                      Wald chi2(3)  =   9.46
                                                      Prob > chi2   = 0.0238
                                                      R-squared     = 0.0262
                                                      Adj R-squared = 0.0099
                                                      Root MSE      = 0.6522

                                          (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
belonging_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
     _treated |
      Mentee |    .194909   .1643784     1.19   0.236    -.1272667
.5170847
1.student_gender |   .2367913   .0832203     2.85   0.004     .0736825
.3999002
             |
_treated#student_gender |
      Mentee#1 |  -.1951925    .168629    -1.16   0.247    -.5256992
.1353143
             |
```

```
                 _cons |  -.0420635   .1263006    -0.33   0.739    -.2896081
.2054811
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(3)  =  10.88
                                                        Prob > chi2   = 0.0124
                                                        R-squared     = 0.0595
                                                        Adj R-squared = 0.0437
                                                        Root MSE      = 0.6409

                                                  (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
             belonging_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .3003638    .115886     2.59   0.010
.0732313    .5274962
                               |
         student_difficultevent |
                           Yes  |   .4216465   .1325165     3.18   0.001
.1619189     .681374
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.4100098   .1831179    -2.24   0.025
-.7689143   -.0511054
                               |
                         _cons |  -.1296296   .1294782    -1.00   0.317
-.3834023     .124143
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     118
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.01
                                                        Prob > chi2   =  0.9046
                                                        R-squared     =  0.0003
                                                        Adj R-squared = -0.0084
                                                        Root MSE      =  1.7584

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
```

```
             |   Observed   Bootstrap                         Normal-based
SSE_aspir~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.0802271   .6695173    -0.12   0.905    -1.392457    1.232003
       _cons |  -1.316832   .0646512   -20.37   0.000    -1.443546   -1.190118
------------------------------------------------------------------------------

Linear regression                                      Number of obs =    118
                                                       Replications  =    500
                                                       Wald chi2(3)  =   8.61
                                                       Prob > chi2   = 0.0349
                                                       R-squared     = 0.0262
                                                       Adj R-squared = 0.0006
                                                       Root MSE      = 1.7506

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
 SSE_aspiration_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
--------
              _treated |  -.3281643   .7486532    -0.44   0.661    -1.795498
1.139169
        student_gender |   .5736843   .2831465     2.03   0.043     .0187275
1.128641
student_difficultevent |   .1083807   .3786328     0.29   0.775    -.6337259
.8504874
                 _cons |  -1.543977   .1841127    -8.39   0.000    -1.904831
-1.183123
------------------------------------------------------------------------------
--------

Linear regression                                      Number of obs =    118
                                                       Replications  =    488
                                                       Wald chi2(3)  =   9.29
                                                       Prob > chi2   = 0.0256
                                                       R-squared     = 0.0332
                                                       Adj R-squared = 0.0077
                                                       Root MSE      = 1.7443

                                              (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
---------
                         |   Observed   Bootstrap
Normal-based
  SSE_aspiration_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
---------
```

```
              _treated |
               Mentee  |  -.9330882   1.525633    -0.61   0.541    -3.923273
2.057097
      1.student_gender |    .459336   .2180006     2.11   0.035     .0320628
.8866093
                       |
_treated#student_gender |
             Mentee#1  |   .9614973   1.507244     0.64   0.524    -1.992646
3.915641
                       |
                 _cons |  -1.466912   .1032886   -14.20   0.000    -1.669354
-1.26447
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     118
                                                        Replications  =     500
                                                        Wald chi2(3)  =    0.29
                                                        Prob > chi2   =  0.9624
                                                        R-squared     =  0.0032
                                                        Adj R-squared = -0.0230
                                                        Root MSE      =  1.7712

                                                     (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap                        
Normal-based
         SSE_aspiration_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   -.109375   1.251383    -0.09   0.930
-2.562041    2.343291
                                |
         student_difficultevent |
                           Yes  |   .2014358   .3787191     0.53   0.595
-.54084    .9437116
                                |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.0423449   1.050926    -0.04   0.968
-2.102123    2.017433
                                |
                          _cons |  -1.390625   .1673195    -8.31   0.000
-1.718565   -1.062685
------------------------------------------------------------------------------
-----------------

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
```

```
                                                      Wald chi2(1)  =   6.53
                                                      Prob > chi2   = 0.0106
                                                      R-squared     = 0.0637
                                                      Adj R-squared = 0.0556
                                                      Root MSE      = 1.5275

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
SSE_belon~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -1.124811   .4402234    -2.56   0.011    -1.987633   -.2619887
       _cons |   .2640264   .1277629     2.07   0.039     .0136158    .5144371
------------------------------------------------------------------------------

Linear regression                                     Number of obs =    118
                                                      Replications  =    500
                                                      Wald chi2(3)  =   7.60
                                                      Prob > chi2   = 0.0550
                                                      R-squared     = 0.0731
                                                      Adj R-squared = 0.0487
                                                      Root MSE      = 1.5331

                                           (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
-------
                       |   Observed   Bootstrap
Normal-based
     SSE_belong_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
----------------------+-------------------------------------------------------
-------
              _treated |  -1.254747   .4821901    -2.60   0.009    -2.199822
-.3096718
        student_gender |   .1520841   .2848278     0.53   0.593    -.4061681
.7103363
student_difficultevent |   .2574566   .2978009     0.86   0.387    -.3262224
.8411356
                 _cons |   .1200198   .2273081     0.53   0.597    -.3254959
.5655356
------------------------------------------------------------------------------
-------

Linear regression                                     Number of obs =    118
                                                      Replications  =    488
                                                      Wald chi2(3)  =  11.45
                                                      Prob > chi2   = 0.0095
                                                      R-squared     = 0.0773
                                                      Adj R-squared = 0.0531
                                                      Root MSE      = 1.5296

                                           (Replications based on 8 clusters
in school)
```

```
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
SSE_belong_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------
_treated |
  Mentee  |  -1.845098   1.506282    -1.22   0.221    -4.797356    1.10716
1.student_gender |   .0579322   .3303011     0.18   0.861     -.589446    .7053105
                 |
_treated#student_gender |
  Mentee#1  |   .9892901   1.634836     0.61   0.545    -2.214929    4.193509
                 |
           _cons |   .2450981   .1857715     1.32   0.187    -.1190074    .6092035
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(3)  =   8.24
                                                        Prob > chi2   = 0.0414
                                                        R-squared     = 0.0812
                                                        Adj R-squared = 0.0570
                                                        Root MSE      = 1.5264

                                                      (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         Normal-based
        SSE_belong_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+----------------------------------------------------
                   _treated |
                    Mentee  |  -1.771007   .9544831    -1.86   0.064    -3.641759    .0997455
                             |
         student_difficultevent |
                        Yes  |   .1477618   .3811791     0.39   0.698    -.5993355     .894859
                             |
_treated#student_difficultevent |
                 Mentee#Yes  |   .9345615   .9052998     1.03   0.302    -.8397935    2.708916
```

```
                           |
                     _cons |   .2098959   .2242201     0.94   0.349
-.2295674    .6493591
------------------------------------------------------------------------------
-----------------

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(1)  =   6.19
                                                        Prob > chi2   = 0.0128
                                                        R-squared     = 0.0944
                                                        Adj R-squared = 0.0866
                                                        Root MSE      = 1.3820

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
SSE_produ~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -1.259668   .5062287    -2.49   0.013    -2.251858   -.2674784
       _cons |   .0399715    .107816     0.37   0.711    -.1713439    .2512869
------------------------------------------------------------------------------

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(3)  =   9.59
                                                        Prob > chi2   = 0.0224
                                                        R-squared     = 0.1192
                                                        Adj R-squared = 0.0960
                                                        Root MSE      = 1.3748

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
--------
                       |   Observed   Bootstrap
Normal-based
SSE_productivity_cha~e | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |  -1.430406   .5751203    -2.49   0.013    -2.557621
-.3031912
        student_gender |   .1274753   .2922661     0.44   0.663    -.4453557
.7003064
student_difficultevent |    .436038   .3323518     1.31   0.190    -.2153596
1.087436
                 _cons |  -.1614156   .2127855    -0.76   0.448    -.5784676
.2556364
------------------------------------------------------------------------------
--------

Linear regression                                       Number of obs =    118
                                                        Replications  =    488
```

```
                                                      Wald chi2(3)  =  16.04
                                                      Prob > chi2   = 0.0011
                                                      R-squared     = 0.1182
                                                      Adj R-squared = 0.0950
                                                      Root MSE      = 1.3756

                                          (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
SSE_productivity_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |  -2.157498    1.39876    -1.54   0.123    -4.899016
.5840208
       1.student_gender |   .0251928   .2631292     0.10   0.924     -.490531
.5409166
                        |
_treated#student_gender |
              Mentee#1  |   1.258393   1.293767     0.97   0.331    -1.277344
3.794129
                        |
                  _cons |   .0317402   .1518995     0.21   0.834    -.2659773
.3294576
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    118
                                                      Replications  =    500
                                                      Wald chi2(3)  =   8.43
                                                      Prob > chi2   = 0.0378
                                                      R-squared     = 0.1329
                                                      Adj R-squared = 0.1101
                                                      Root MSE      = 1.3641

                                                (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap                         
Normal-based
        SSE_productivity_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |  -2.033302   1.100483    -1.85   0.065
-4.190209    .1236061
```

```
                                |
         student_difficultevent |
                            Yes |   .3042767   .4384971     0.69   0.488
-.5551619    1.163715
                                |
_treated#student_difficultevent |
                     Mentee#Yes |   1.063607   1.075085     0.99   0.323
-1.043521    3.170734
                                |
                          _cons |  -.0714962   .2713354    -0.26   0.792
-.6033038    .4603113
------------------------------------------------------------------------------
-----------------

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(1)  =   2.57
                                                        Prob > chi2   = 0.1087
                                                        R-squared     = 0.0473
                                                        Adj R-squared = 0.0391
                                                        Root MSE      = 1.3056

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
SSE_total~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.8215687   .5122109    -1.60   0.109    -1.825484    .1823462
       _cons |  -.3376113   .0901729    -3.74   0.000    -.5143469   -.1608756
------------------------------------------------------------------------------

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(3)  =   3.79
                                                        Prob > chi2   = 0.2849
                                                        R-squared     = 0.0698
                                                        Adj R-squared = 0.0453
                                                        Root MSE      = 1.3014

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
      SSE_total_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |  -1.004439   .5610399    -1.79   0.073    -2.104057
.0951788
         student_gender |   .2844146   .2421329     1.17   0.240     -.190157
.7589863
student_difficultevent |   .2672918   .2362737     1.13   0.258    -.1957962
```

```
.7303798
                 _cons |  -.5284576   .1690305    -3.13   0.002    -.8597513
-.1971638
------------------------------------------------------------------------------
--------

Linear regression                                       Number of obs =    118
                                                        Replications  =    488
                                                        Wald chi2(3)  =   5.93
                                                        Prob > chi2   = 0.1149
                                                        R-squared     = 0.0774
                                                        Adj R-squared = 0.0531
                                                        Root MSE      = 1.2961

                                             (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
       SSE_total_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |  -1.645228   1.472535    -1.12   0.264    -4.531344
1.240887
       1.student_gender |   .1808203   .1866834     0.97   0.333    -.1850724
 .546713
                        |
_treated#student_gender |
              Mentee#1  |   1.069727    1.44104     0.74   0.458     -1.75466
3.894114
                        |
                  _cons |  -.3966912   .1227991    -3.23   0.001    -.6373729
-.1560094
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(3)  =   4.23
                                                        Prob > chi2   = 0.2374
                                                        R-squared     = 0.0668
                                                        Adj R-squared = 0.0423
                                                        Root MSE      = 1.3035

                                               (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
```

```
Normal-based
               SSE_total_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+----------------------------------------------
-----------------
                      _treated |
                       Mentee  |  -1.304561   1.074701    -1.21   0.225
-3.410937    .8018146
                               |
         student_difficultevent |
                           Yes  |   .2178247   .3142248     0.69   0.488
-.3980446    .8336941
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   .6519412   .9552628     0.68   0.495
-1.220339    2.524222
                               |
                         _cons |  -.4174085   .1899163    -2.20   0.028
-.7896376   -.0451793
------------------------------------------------------------------------------
-----------------

Linear regression                                       Number of obs =    177
                                                        Replications  =    499
                                                        Wald chi2(1)  =   0.81
                                                        Prob > chi2   = 0.3672
                                                        R-squared     = 0.0077
                                                        Adj R-squared = 0.0021
                                                        Root MSE      = 0.7215

                                (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
  brs_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .1268735   .1406874     0.90   0.367    -.1488687    .4026156
       _cons |  -.0251004   .0681165    -0.37   0.713    -.1586063    .1084055
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    177
                                                        Replications  =    499
                                                        Wald chi2(3)  =  12.64
                                                        Prob > chi2   = 0.0055
                                                        R-squared     = 0.0410
                                                        Adj R-squared = 0.0244
                                                        Root MSE      = 0.7133

                                           (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                     |   Observed   Bootstrap
```

```
Normal-based
            brs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
              _treated |   .1056141   .1649907     0.64   0.522    -.2177616
.4289899
        student_gender |   .1798321   .1415912     1.27   0.204    -.0976814
.4573457
student_difficultevent |   -.215458    .149906    -1.44   0.151    -.5092684
.0783524
                 _cons |   .0024932   .1064421     0.02   0.981    -.2061295
.211116
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    177
                                                        Replications  =    499
                                                        Wald chi2(3)  =  11.51
                                                        Prob > chi2   = 0.0092
                                                        R-squared     = 0.0250
                                                        Adj R-squared = 0.0081
                                                        Root MSE      = 0.7193

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                           |   Observed   Bootstrap
Normal-based
             brs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+------------------------------------------------------
---------
               _treated |
                Mentee  |   .1903178   .2483372     0.77   0.443     -.296414
.6770497
       1.student_gender |   .2849026   .1015931     2.80   0.005     .0857838
.4840214
                        |
_treated#student_gender |
              Mentee#1  |  -.2269643   .2346192    -0.97   0.333    -.6868096
 .232881
                        |
                  _cons |  -.1212121   .0855852    -1.42   0.157    -.2889561
.0465319
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    177
```

```
                                                      Replications  =    499
                                                      Wald chi2(3)  =   5.41
                                                      Prob > chi2   = 0.1441
                                                      R-squared     = 0.0269
                                                      Adj R-squared = 0.0100
                                                      Root MSE      = 0.7186

                                                 (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
                    brs_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .1703069   .1784781     0.95   0.340
-.1795038    .5201175
                               |
         student_difficultevent |
                           Yes  |  -.1683874   .1213966    -1.39   0.165
-.4063203    .0695456
                               |
_treated#student_difficultevent |
                     Mentee#Yes  |  -.0564353   .2103345    -0.27   0.788
-.4686835    .3558128
                               |
                         _cons |   .0438776   .1040949     0.42   0.673
-.1601448    .2478999
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =     103
                                                      Replications  =     500
                                                      Wald chi2(1)  =    0.68
                                                      Prob > chi2   =  0.4106
                                                      R-squared     =  0.0091
                                                      Adj R-squared = -0.0007
                                                      Root MSE      =  4.3314

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
wembs_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -1.134698   1.378937    -0.82   0.411    -3.837364    1.567968
       _cons |   .5434483   .8301718     0.65   0.513    -1.083658    2.170555
------------------------------------------------------------------------------

Linear regression                                     Number of obs =    103
```

```
                                                    Replications  =    500
                                                    Wald chi2(3)  =   3.61
                                                    Prob > chi2   = 0.3070
                                                    R-squared     = 0.0364
                                                    Adj R-squared = 0.0072
                                                    Root MSE      = 4.3142

                                          (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
wembs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
    _treated |   -1.46272   1.639726    -0.89   0.372    -4.676525
1.751084
student_gender |   .0124515   .8459275     0.01   0.988    -1.645536
1.670439
student_difficultevent |   1.453767   .8422934     1.73   0.084    -.1970976
3.104632
       _cons |  -.0456941   1.097184    -0.04   0.967    -2.196135
2.104747
------------------------------------------------------------------------------

Linear regression                                   Number of obs =    103
                                                    Replications  =    488
                                                    Wald chi2(3)  =   1.43
                                                    Prob > chi2   = 0.6990
                                                    R-squared     = 0.0397
                                                    Adj R-squared = 0.0106
                                                    Root MSE      = 4.3068

                                           (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
wembs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
    _treated |
      Mentee |  -4.028526   3.541627    -1.14   0.255    -10.96999
2.912936
1.student_gender |  -.4555264   .6416976    -0.71   0.478    -1.713231
.8021777
             |
_treated#student_gender |
      Mentee#1 |   4.436254    3.92822     1.13   0.259    -3.262916
```

```
12.13542
                      |
                _cons |   .7005264   .8715632     0.80   0.422    -1.007706
2.408759
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    103
                                                        Replications  =    500
                                                        Wald chi2(3)  =   6.16
                                                        Prob > chi2   = 0.1040
                                                        R-squared     = 0.0627
                                                        Adj R-squared = 0.0343
                                                        Root MSE      = 4.2549

                                                  (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
                  wembs_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |  -3.809487    2.66784    -1.43   0.153
-9.038357    1.419384
                               |
         student_difficultevent |
                           Yes  |   .8508465   .8610878     0.99   0.323
-.8368546    2.538548
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   3.976487    3.07517     1.29   0.196
-2.050736    10.00371
                               |
                         _cons |   .2011538   .9380608     0.21   0.830
-1.637412    2.039719
------------------------------------------------------------------------------
-----------------

.
.
. bysort _treated: sum z_epoc_engagement_change z_epoc_perser_change
z_epoc_optimism_change z_epoc_connect_change z_helpseeking2_1_change
z_helpseeking2_2_change z_help
> seeking2_3_change z_helpseeking_change z_belonging_change
z_SSE_aspiration_change z_SSE_belong_change z_SSE_productivity_change
z_SSE_total_change z_brs_change z_wemb
> s_change
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> _treated = Non - Mentee

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+--------------------------------------------------------
z_epoc_en~ge |         95   -.0791839    .9731418  -1.834786   3.621555
z_epoc_pe~ge |         95   -.0216857    .8875813   -2.07273   2.277969
z_epoc_op~ge |         83   -.0734959    .9603692  -2.280513    3.28701
z_epoc_co~ge |         83   -.1654989    .9769721  -2.664648   2.888397
z_h~1_change |         99   -.1971325    .9829352  -2.599917   3.230369
-------------+--------------------------------------------------------
z_h~2_change |         99   -.1680212    .9544397  -2.596461    2.04925
z_h~3_change |         98    -.129833    1.006844  -2.742853   2.021351
z_h~g_change |         78    .1128577    .9285732  -1.916379   3.033852
z_belongi~ge |         88   -.1045789    1.016673  -3.747677   3.142848
z_SSE_asp~ge |        101     .021749    .9772979  -3.887356   2.546741
-------------+--------------------------------------------------------
z_SSE_bel~ge |        101    .0742959     .973176  -2.797281   2.711655
z_SSE_pro~ge |        101    .0923079    .9221056  -3.731771   3.568357
z_SSE_tot~ge |        101    .0736057    .9638592  -3.795455   3.062357
z_brs_change |         83   -.0962769    .7164656  -1.684354   1.793493
z_wembs_ch~e |         87    .0592671    .9007898  -2.329309   2.664796

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
-> _treated = Mentee

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+--------------------------------------------------------
z_epoc_en~ge |         17    .1765715    1.094995  -2.653237   1.984653
z_epoc_pe~ge |        102   -.0700268    1.002665  -3.315786   1.967205
z_epoc_op~ge |         95    .0188912    1.021203  -2.280513   2.304506
z_epoc_co~ge |         95    .1471899    1.021185  -3.358778   3.235462
z_h~1_change |        101    .2055474    .9918785  -2.599917   2.064312
-------------+--------------------------------------------------------
z_h~2_change |        100    .2025798      .97794  -2.596461    2.04925
z_h~3_change |        101    .1463301    .9871583  -2.742853   2.021351
z_h~g_change |         12   -.4884278    1.418722  -3.566456   1.256846
z_belongi~ge |         95    .1158777    .9952391  -2.721429   2.153251
z_SSE_asp~ge |         17   -.0251773    1.303883  -2.132602   2.108053
-------------+--------------------------------------------------------
z_SSE_bel~ge |         17   -.6547053    1.089252  -2.581244   1.372227
z_SSE_pro~ge |         17   -.7904832    1.219277  -3.147761   .6483058
z_SSE_tot~ge |         17   -.5662363    1.299916  -2.886849   1.007177
z_brs_change |         94    .0802218    1.201184  -3.075493   2.952776
z_wembs_ch~e |         16   -.1963396    1.325863  -3.759736   1.747971


.
. ******* Help Seeking Behaviour
. foreach var of varlist z_helpseeking2_1_change z_helpseeking2_2_change
```

```
z_helpseeking2_3_change z_helpseeking_change {
  2.
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated,
cluster(school)
  3.
. *** Outcomes adjusting for student gender and difficult live event
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated
student_gender student_difficultevent, cluster(school)
  4.
. *** Interaction between student gender and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_gender, cluster(school)
  5.
. *** Interaction between difficult life event and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_difficultevent, cluster(school)
  6.         }

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(1)  =   6.19
                                                        Prob > chi2   = 0.0129
                                                        R-squared     = 0.0403
                                                        Adj R-squared = 0.0355
                                                        Root MSE      = 0.9875

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_h~1_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .4026799   .1619137     2.49   0.013     .0853349    .7200248
       _cons |  -.1971325   .1216942    -1.62   0.105    -.4356487    .0413837
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(3)  =   7.43
                                                        Prob > chi2   = 0.0595
                                                        R-squared     = 0.0416
                                                        Adj R-squared = 0.0269
                                                        Root MSE      = 0.9918

                                             (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
z_helpseeking2_1_cha~e | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
```

```
--------
              _treated |    .394947   .1729845     2.28   0.022     .0559035
.7339904
        student_gender |  -.0081713   .1384949    -0.06   0.953    -.2796162
.2632737
student_difficultevent |    .074554    .158914     0.47   0.639    -.2369118
.3860198
                 _cons |  -.2222724   .1278377    -1.74   0.082    -.4728297
.028285
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(3)  =   7.89
                                                        Prob > chi2   = 0.0484
                                                        R-squared     = 0.0427
                                                        Adj R-squared = 0.0280
                                                        Root MSE      = 0.9913

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
z_helpseeking2_1_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |   .3104438   .1825724     1.70   0.089    -.0473915
.6682792
       1.student_gender |  -.1060052    .230998    -0.46   0.646    -.5587529
.3467425
                        |
_treated#student_gender |
             Mentee#1   |   .2034119   .3264344     0.62   0.533    -.4363878
.8432117
                        |
                 _cons  |  -.1617974   .0675018    -2.40   0.017    -.2940985
-.0294964
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    200
                                                        Replications  =    499
                                                        Wald chi2(3)  =   8.02
                                                        Prob > chi2   = 0.0456
                                                        R-squared     = 0.0457
```

```
                                                      Adj R-squared = 0.0311
                                                      Root MSE      = 0.9897

                                                 (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         
Normal-based
       z_helpseeking2_1_change | coefficient  std. err.      z    P>|z|     
[95% conf. interval]
-----------------------------+------------------------------------------------
                      _treated |
                       Mentee  |   .2791015   .1752933     1.59   0.111    
-.0644672    .6226701
                               |
         student_difficultevent |
                          Yes  |  -.0625218   .1734794    -0.36   0.719    
-.4025351    .2774915
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   .2609802   .1848502     1.41   0.158    
-.1013195    .6232799
                               |
                         _cons |  -.1737658    .144373    -1.20   0.229    
-.4567316    .1092001
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    199
                                                      Replications  =    499
                                                      Wald chi2(1)  =   5.18
                                                      Prob > chi2   = 0.0228
                                                      R-squared     = 0.0358
                                                      Adj R-squared = 0.0309
                                                      Root MSE      = 0.9663

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_h~2_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .370601   .1627891     2.28   0.023     .0515402    .6896619
       _cons |  -.1680212   .0979683    -1.72   0.086    -.3600355     .023993
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    199
                                                      Replications  =    499
                                                      Wald chi2(3)  =  12.75
```

```
                                                      Prob > chi2   = 0.0052
                                                      R-squared     = 0.0449
                                                      Adj R-squared = 0.0302
                                                      Root MSE      = 0.9667

                                          (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_helpseeking2_2_cha~e | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
          _treated |    .318907   .1805099     1.77   0.077    -.0348859
.6726998
    student_gender |   .1719328   .1511757     1.14   0.255    -.1243662
.4682318
student_difficultevent |    .068133   .1354485     0.50   0.615    -.1973411
.3336072
             _cons |   -.250796   .1157458    -2.17   0.030    -.4776536
-.0239385
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    199
                                                      Replications  =    499
                                                      Wald chi2(3)  =  11.01
                                                      Prob > chi2   = 0.0117
                                                      R-squared     = 0.0474
                                                      Adj R-squared = 0.0327
                                                      Root MSE      = 0.9654

                                           (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_helpseeking2_2_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
          _treated |
           Mentee  |   .2161965   .2514048     0.86   0.390    -.2765478
.7089408
  1.student_gender |   .0527922   .2783699     0.19   0.850    -.4928028
.5983872
                   |
_treated#student_gender |
         Mentee#1  |   .2437629   .3929166     0.62   0.535    -.5263395
```

```
1.013865
                      |
                _cons |  -.1856186   .0891181    -2.08   0.037    -.3602868
-.0109504
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   5.44
                                                        Prob > chi2   = 0.1424
                                                        R-squared     = 0.0386
                                                        Adj R-squared = 0.0238
                                                        Root MSE      = 0.9698

                                                  (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
        z_helpseeking2_2_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .3092808   .1756059     1.76   0.078
-.0349004     .653462
                               |
         student_difficultevent |
                           Yes  |   .0318962   .2141166     0.15   0.882
-.3877646    .4515571
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   .1117137   .2516895     0.44   0.657
-.3815886     .605016
                               |
                         _cons |   -.179942   .1084846    -1.66   0.097
-.392568    .0326839
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(1)  =   2.26
                                                        Prob > chi2   = 0.1330
                                                        R-squared     = 0.0190
                                                        Adj R-squared = 0.0140
                                                        Root MSE      = 0.9969
```

```
                                (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_h~3_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .276163   .1838297     1.50   0.133    -.0841364    .6364625
       _cons |   -.129833   .1471481    -0.88   0.378    -.4182379    .1585719
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   5.69
                                                        Prob > chi2   = 0.1275
                                                        R-squared     = 0.0287
                                                        Adj R-squared = 0.0138
                                                        Root MSE      = 0.9970

                                             (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
                        |   Observed   Bootstrap                         Normal-based
z_helpseeking2_3_cha~e | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
              _treated |   .2475342   .1978423     1.25   0.211    -.1402295
.635298
        student_gender |   .0134655   .1631625     0.08   0.934     -.306327
.333258
student_difficultevent |   .1985655   .1601668     1.24   0.215    -.1153556
.5124866
                 _cons |  -.2093359   .1561685    -1.34   0.180    -.5154205
.0967487
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   4.71
                                                        Prob > chi2   = 0.1945
                                                        R-squared     = 0.0252
                                                        Adj R-squared = 0.0102
                                                        Root MSE      = 0.9988

                                              (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
```

```
                       |   Observed   Bootstrap                         
Normal-based
z_helpseeking2_3_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
---------
               _treated |
                Mentee  |   .1221591   .2623192     0.47   0.641    -.3919771
.6362953
       1.student_gender |  -.1304881   .2284518    -0.57   0.568    -.5782454
.3172692
                        |
_treated#student_gender |
              Mentee#1  |   .3189029   .3295319     0.97   0.333    -.3269676
.9647735
                        |
                  _cons |  -.0858931   .1298901    -0.66   0.508     -.340473
.1686868
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    199
                                                        Replications  =    499
                                                        Wald chi2(3)  =   3.59
                                                        Prob > chi2   = 0.3090
                                                        R-squared     = 0.0293
                                                        Adj R-squared = 0.0144
                                                        Root MSE      = 0.9967

                                                  (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap                         
Normal-based
        z_helpseeking2_3_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .2054075   .1974304     1.04   0.298
-.181549    .5923639
                               |
         student_difficultevent |
                          Yes  |   .1461768   .1903453     0.77   0.443
-.2268931    .5192467
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |   .1032432   .2092955     0.49   0.622
-.3069684    .5134549
                               |
                        _cons |  -.1850222   .1714795    -1.08   0.281
```

```
-.5211159    .1510715
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     90
                                                        Replications  =    500
                                                        Wald chi2(1)  =   1.90
                                                        Prob > chi2   = 0.1686
                                                        R-squared     = 0.0407
                                                        Adj R-squared = 0.0298
                                                        Root MSE      = 1.0030

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_h~g_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.6012855   .4367318    -1.38   0.169    -1.457264    .2546931
       _cons |   .1128577    .102159     1.10   0.269    -.0873702    .3130856
------------------------------------------------------------------------------

Linear regression                                       Number of obs =     90
                                                        Replications  =    500
                                                        Wald chi2(3)  =   3.74
                                                        Prob > chi2   = 0.2912
                                                        R-squared     = 0.0494
                                                        Adj R-squared = 0.0163
                                                        Root MSE      = 1.0100

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
  z_helpseeking_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
--------
              _treated |  -.5254393   .5040915    -1.04   0.297     -1.51344
.4625618
        student_gender |  -.1887341   .2688191    -0.70   0.483    -.7156098
.3381416
student_difficultevent |  -.0390563   .2402643    -0.16   0.871    -.5099656
.431853
                 _cons |   .1888718   .1060127     1.78   0.075    -.0189094
.3966529
------------------------------------------------------------------------------
--------

Linear regression                                       Number of obs =     90
                                                        Replications  =    488
```

```
                                                      Wald chi2(3)  =   8.66
                                                      Prob > chi2   = 0.0341
                                                      R-squared     = 0.1226
                                                      Adj R-squared = 0.0920
                                                      Root MSE      = 0.9703

                                           (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_helpseeking_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
        _treated |
          Mentee  |  -1.596192   .7336329    -2.18   0.030    -3.034086
-.158298
1.student_gender |  -.4309838   .1830827    -2.35   0.019    -.7898193
-.0721484
             |
_treated#student_gender |
      Mentee#1  |    1.71614   .9334193     1.84   0.066    -.1133283
3.545608
             |
           _cons |   .2509935   .0775719     3.24   0.001     .0989555
.4030316
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =     90
                                                      Replications  =    499
                                                      Wald chi2(3)  =   3.65
                                                      Prob > chi2   = 0.3020
                                                      R-squared     = 0.0584
                                                      Adj R-squared = 0.0256
                                                      Root MSE      = 1.0052

                                                    (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
                   |   Observed   Bootstrap                         Normal-based
z_helpseeking_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------+----------------------------------------------------------
              _treated |
                Mentee  |  -1.085648   .6547556    -1.66   0.097
-2.368946    .1976494
```

```
                                  |
         student_difficultevent |
                            Yes  |  -.1807671   .2669523    -0.68   0.498
-.7039841    .3424498
                                  |
_treated#student_difficultevent |
                     Mentee#Yes  |   .7995461   .8102666     0.99   0.324
-.7885473    2.387639
                                  |
                           _cons |    .184701   .0682154     2.71   0.007
.0510013    .3184008
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

.
. ********************
. ***** EPOCH MEASURE
. ********************
.
.         foreach var of varlist z_epoc_engagement_change z_epoc_perser_change
z_epoc_optimism_change z_epoc_connect_change {
  2.
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated,
cluster(school)
  3.
. *** Outcomes adjusting for student gender and difficult live event
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated
student_gender student_difficultevent, cluster(school)
  4.
. *** Interaction between student gender and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_gender, cluster(school)
  5.
. *** Interaction between difficult life event and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_difficultevent, cluster(school)
  6.         }

Linear regression                                       Number of obs =     112
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.74
                                                        Prob > chi2   =  0.3893
                                                        R-squared     =  0.0086
                                                        Adj R-squared = -0.0004
                                                        Root MSE      =  0.9918

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_en~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2557554   .2970572     0.86   0.389     -.326466    .8379769
```

```
       _cons |  -.0791839   .1143114    -0.69   0.488    -.3032302    .1448623
------------------------------------------------------------------------------

Linear regression                                       Number of obs =     112
                                                        Replications  =     500
                                                        Wald chi2(3)  =    3.18
                                                        Prob > chi2   =  0.3641
                                                        R-squared     =  0.0188
                                                        Adj R-squared = -0.0085
                                                        Root MSE      =  0.9958

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
                        |   Observed   Bootstrap                         Normal-based
z_epoc_engagement_ch~e | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+------------------------------------------------------------
              _treated |   .1695621   .3517904     0.48   0.630    -.5199344
.8590586
        student_gender |   .1521786   .2158204     0.71   0.481    -.2708216
.5751788
student_difficultevent |   .1228143   .1336367     0.92   0.358    -.1391088
.3847375
                 _cons |  -.1798789   .1323053    -1.36   0.174    -.4391927
.0794348
------------------------------------------------------------------------------

Linear regression                                       Number of obs =     112
                                                        Replications  =     488
                                                        Wald chi2(3)  =    4.63
                                                        Prob > chi2   =  0.2006
                                                        R-squared     =  0.0252
                                                        Adj R-squared = -0.0019
                                                        Root MSE      =  0.9925

                                              (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
                         |   Observed   Bootstrap                         Normal-based
z_epoc_engagement_cha~e | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------------
               _treated |
                Mentee   |  -.1985991   .9060256    -0.22   0.826    -1.974377
1.577178
       1.student_gender |   .0841386   .1986371     0.42   0.672     -.305183
```

```
.4734602
                        |
_treated#student_gender |
              Mentee#1  |   .6009353    .970559     0.62   0.536    -1.301325
2.503196
                        |
                  _cons |   -.108411   .0920881    -1.18   0.239    -.2889004
.0720783
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    112
                                                        Replications  =    500
                                                        Wald chi2(3)  =   3.46
                                                        Prob > chi2   = 0.3254
                                                        R-squared     = 0.0310
                                                        Adj R-squared = 0.0041
                                                        Root MSE      = 0.9896

                                                     (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
       z_epoc_engagement_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |  -.2430267   .4757558    -0.51   0.609
-1.175491    .6894376
                                |
         student_difficultevent |
                           Yes  |   .0310193   .0976243     0.32   0.751
-.1603208    .2223594
                                |
_treated#student_difficultevent |
                    Mentee#Yes  |   .7584967   .5107256     1.49   0.138
-.2425071      1.7595
                                |
                         _cons |  -.0912651   .1050774    -0.87   0.385
-.297213    .1146827
------------------------------------------------------------------------------
-----------------

Linear regression                                       Number of obs =     197
                                                        Replications  =     499
                                                        Wald chi2(1)  =    0.08
                                                        Prob > chi2   =  0.7790
                                                        R-squared     =  0.0007
                                                        Adj R-squared = -0.0045
```

```
                                                      Root MSE      =  0.9489

                                (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_pe~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.0483411   .1722771    -0.28   0.779     -.385998    .2893158
       _cons |  -.0216857   .1102308    -0.20   0.844    -.2377342    .1943628
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =     197
                                                      Replications  =     499
                                                      Wald chi2(3)  =    2.39
                                                      Prob > chi2   =  0.4946
                                                      R-squared     =  0.0116
                                                      Adj R-squared = -0.0037
                                                      Root MSE      =  0.9486

                                           (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                       |   Observed   Bootstrap
Normal-based
  z_epoc_perser_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |  -.0880191   .1990073    -0.44   0.658    -.4780663
.3020281
        student_gender |   .0908917   .1303989     0.70   0.486    -.1646854
.3464689
student_difficultevent |   .1689756   .1266719     1.33   0.182    -.0792968
.4172479
                 _cons |  -.1190702   .0856384    -1.39   0.164    -.2869185
.0487781
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =     197
                                                      Replications  =     499
                                                      Wald chi2(3)  =    0.74
                                                      Prob > chi2   =  0.8642
                                                      R-squared     =  0.0045
                                                      Adj R-squared = -0.0110
                                                      Root MSE      =  0.9520

                                           (Replications based on 13 clusters
in school)
```

```
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_perser_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
               _treated |
                Mentee  |  -.0315505   .1875886    -0.17   0.866    -.3992173
.3361164
      1.student_gender |   .1616095   .2106575     0.77   0.443    -.2512715
.5744906
                       |
_treated#student_gender |
             Mentee#1  |  -.0935852   .2425016    -0.39   0.700    -.5688796
.3817092
                       |
                 _cons |  -.0778238   .0902052    -0.86   0.388    -.2546227
.0989751
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     197
                                                        Replications  =     499
                                                        Wald chi2(3)  =    2.99
                                                        Prob > chi2   =  0.3931
                                                        R-squared     =  0.0116
                                                        Adj R-squared = -0.0038
                                                        Root MSE      =  0.9486

                                                     (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         Normal-based
          z_epoc_perser_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------------------------
                      _treated |
                       Mentee  |       .009   .2634119     0.03   0.973    -.5072778    .5252779
                               |
         student_difficultevent |
                           Yes  |   .2723893   .1680534     1.62   0.105    -.0569893     .601768
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.1748947   .2869378    -0.61   0.542    -.7372825    .3874931
```

```
                           |
                     _cons |  -.1277742   .1113771    -1.15   0.251
-.3460692    .0905208
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     178
                                                        Replications  =     499
                                                        Wald chi2(1)  =    0.16
                                                        Prob > chi2   =  0.6859
                                                        R-squared     =  0.0022
                                                        Adj R-squared = -0.0035
                                                        Root MSE      =  0.9933

                                (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_op~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .0923871   .2284055     0.40   0.686    -.3552794    .5400535
       _cons |  -.0734959   .1652772    -0.44   0.657    -.3974333    .2504415
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   7.26
                                                        Prob > chi2   = 0.0640
                                                        R-squared     = 0.0298
                                                        Adj R-squared = 0.0131
                                                        Root MSE      = 0.9851

                                           (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                       |   Observed   Bootstrap
Normal-based
z_epoc_optimism_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |    .009691   .2541604     0.04   0.970    -.4884541
.5078361
        student_gender |   .2870675   .1560087     1.84   0.066     -.018704
.592839
student_difficultevent |   .1567734   .1479966     1.06   0.289    -.1332946
.4468415
                 _cons |  -.2345584   .1610166    -1.46   0.145    -.5501451
.0810282
------------------------------------------------------------------------------
```

```
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   9.38
                                                        Prob > chi2   = 0.0247
                                                        R-squared     = 0.0360
                                                        Adj R-squared = 0.0194
                                                        Root MSE      = 0.9819

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                          |   Observed   Bootstrap                         
Normal-based
 z_epoc_optimism_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
---------
               _treated |
                Mentee  |   .2228002   .2450449     0.91   0.363    -.2574789
.7030792
       1.student_gender |   .5526408   .2079173     2.66   0.008     .1451303
.9601513
                        |
_treated#student_gender |
              Mentee#1  |   -.455879   .2437137    -1.87   0.061    -.9335491
 .021791
                        |
                  _cons |   -.259929   .1809295    -1.44   0.151    -.6145443
.0946864
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =  13.45
                                                        Prob > chi2   = 0.0038
                                                        R-squared     = 0.0212
                                                        Adj R-squared = 0.0043
                                                        Root MSE      = 0.9894

                                                   (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
-----------------
                                  |   Observed   Bootstrap                         
Normal-based
         z_epoc_optimism_change | coefficient  std. err.      z    P>|z|
```

```
[95% conf. interval]
-------------------------------+----------------------------------------------
-----------------
                     _treated |
                      Mentee  |   .2653986   .3032644     0.88   0.381
-.3289887     .859786
                              |
         student_difficultevent |
                          Yes  |    .405871   .1171139     3.47   0.001
.1763319    .6354101
                              |
_treated#student_difficultevent |
                   Mentee#Yes  |  -.4195169   .2864793    -1.46   0.143
-.981006    .1419722
                              |
                         _cons |  -.2397563   .1956129    -1.23   0.220
-.6231505    .1436379
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(1)  =   4.53
                                                        Prob > chi2   = 0.0333
                                                        R-squared     = 0.0240
                                                        Adj R-squared = 0.0184
                                                        Root MSE      = 1.0008

                                (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_co~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .3126889   .1469279     2.13   0.033     .0247154    .6006623
       _cons |  -.1654989   .1275972    -1.30   0.195    -.4155848     .084587
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   9.20
                                                        Prob > chi2   = 0.0267
                                                        R-squared     = 0.0336
                                                        Adj R-squared = 0.0170
                                                        Root MSE      = 1.0016

                                           (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                     |   Observed   Bootstrap
```

```
Normal-based
 z_epoc_connect_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
----------------------+------------------------------------------------------------
--------
              _treated |   .2638795   .1550756     1.70   0.089     -.040063
.5678221
        student_gender |   .1644087   .1237915     1.33   0.184    -.0782181
.4070356
student_difficultevent |   .1068004   .1321965     0.81   0.419    -.1522999
.3659007
                 _cons |  -.2647117   .1200994    -2.20   0.028    -.5001021
-.0293212
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
                                                        Replications  =    499
                                                        Wald chi2(3)  =   6.77
                                                        Prob > chi2   = 0.0798
                                                        R-squared     = 0.0313
                                                        Adj R-squared = 0.0146
                                                        Root MSE      = 1.0028

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                         |   Observed   Bootstrap
Normal-based
  z_epoc_connect_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+------------------------------------------------------
---------
               _treated |
                Mentee  |   .2329544   .2166817     1.08   0.282    -.1917339
.6576427
       1.student_gender |   .1255294   .0858318     1.46   0.144    -.0426978
.2937566
                        |
_treated#student_gender |
              Mentee#1  |    .085339   .2408401     0.35   0.723     -.386699
 .557377
                        |
                  _cons |  -.2078462   .1427267    -1.46   0.145    -.4875853
.0718929
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    178
```

```
                                                      Replications  =    499
                                                      Wald chi2(3)  =  28.54
                                                      Prob > chi2   = 0.0000
                                                      R-squared     = 0.0417
                                                      Adj R-squared = 0.0252
                                                      Root MSE      = 0.9974

                                                 (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         
Normal-based
          z_epoc_connect_change | coefficient  std. err.      z    P>|z|     
[95% conf. interval]
------------------------------+-----------------------------------------------
                      _treated |
                       Mentee  |   .5211881   .1845257     2.82   0.005     
.1595244    .8828519
                               |
         student_difficultevent |
                           Yes  |   .3833828   .0839721     4.57   0.000     
.2188004    .5479652
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.4873793   .2111686    -2.31   0.021     
-.9012622   -.0734964
                               |
                         _cons |  -.3225473   .0995222    -3.24   0.001     
-.5176072   -.1274874
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

.
.
.         **********************
.         *** School engagement
.         **********************
.
. foreach var of varlist SSE_aspiration_change z_belonging_change z_sei_change{
  2.
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated,
cluster(school)
  3.
. *** Outcomes adjusting for student gender and difficult live event
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated
student_gender student_difficultevent, cluster(school)
  4.
. *** Interaction between student gender and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_gender, cluster(school)
```

```
  5.
. *** Interaction between difficult life event and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_difficultevent, cluster(school)
  6.         }

Linear regression                                       Number of obs =     118
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.01
                                                        Prob > chi2   =  0.9046
                                                        R-squared     =  0.0003
                                                        Adj R-squared = -0.0084
                                                        Root MSE      =  1.7584

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
SSE_aspir~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.0802271   .6695173    -0.12   0.905    -1.392457    1.232003
       _cons |  -1.316832   .0646512   -20.37   0.000    -1.443546   -1.190118
------------------------------------------------------------------------------

Linear regression                                       Number of obs =    118
                                                        Replications  =    500
                                                        Wald chi2(3)  =   8.61
                                                        Prob > chi2   = 0.0349
                                                        R-squared     = 0.0262
                                                        Adj R-squared = 0.0006
                                                        Root MSE      = 1.7506

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
-------
                        |   Observed   Bootstrap
Normal-based
 SSE_aspiration_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
-------
              _treated |  -.3281643   .7486532    -0.44   0.661    -1.795498
1.139169
        student_gender |   .5736843   .2831465     2.03   0.043     .0187275
1.128641
student_difficultevent |   .1083807   .3786328     0.29   0.775    -.6337259
.8504874
                 _cons |  -1.543977   .1841127    -8.39   0.000    -1.904831
-1.183123
------------------------------------------------------------------------------
-------

Linear regression                                       Number of obs =    118
                                                        Replications  =    488
```

```
                                                      Wald chi2(3)  =   9.29
                                                      Prob > chi2   = 0.0256
                                                      R-squared     = 0.0332
                                                      Adj R-squared = 0.0077
                                                      Root MSE      = 1.7443

                                           (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
                        |   Observed   Bootstrap                         Normal-based
  SSE_aspiration_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
               _treated |
                Mentee  |  -.9330882   1.525633    -0.61   0.541    -3.923273
2.057097
       1.student_gender |    .459336   .2180006     2.11   0.035     .0320628
.8866093
                        |
_treated#student_gender |
              Mentee#1  |   .9614973   1.507244     0.64   0.524    -1.992646
3.915641
                        |
                  _cons |  -1.466912   .1032886   -14.20   0.000    -1.669354
-1.26447
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =     118
                                                      Replications  =     500
                                                      Wald chi2(3)  =    0.29
                                                      Prob > chi2   =  0.9624
                                                      R-squared     =  0.0032
                                                      Adj R-squared = -0.0230
                                                      Root MSE      =  1.7712

                                                    (Replications based on 8
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         Normal-based
          SSE_aspiration_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
-----------------------------+------------------------------------------------
                      _treated |
                       Mentee  |   -.109375   1.251383    -0.09   0.930
-2.562041    2.343291
```

```
                                |
         student_difficultevent |
                            Yes |   .2014358   .3787191     0.53   0.595
-.54084    .9437116
                                |
_treated#student_difficultevent |
                     Mentee#Yes |  -.0423449   1.050926    -0.04   0.968
-2.102123    2.017433
                                |
                          _cons |  -1.390625   .1673195    -8.31   0.000
-1.718565   -1.062685
------------------------------------------------------------------------------
-----------------

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(1)  =   2.32
                                                        Prob > chi2   = 0.1278
                                                        R-squared     = 0.0120
                                                        Adj R-squared = 0.0065
                                                        Root MSE      = 1.0056

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_belongi~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2204566   .1447791     1.52   0.128    -.0633052    .5042185
       _cons |  -.1045789   .1475256    -0.71   0.478    -.3937238     .184566
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(3)  =  11.40
                                                        Prob > chi2   = 0.0098
                                                        R-squared     = 0.0420
                                                        Adj R-squared = 0.0259
                                                        Root MSE      = 0.9957

                                            (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
    z_belonging_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |    .146277   .1610277     0.91   0.364    -.1693316
.4618856
        student_gender |   .1681307   .1133194     1.48   0.138    -.0539711
```

```
.3902326
student_difficultevent |   .2962609   .1602067     1.85   0.064    -.0177385
.6102603
                 _cons |  -.2725395   .1669304    -1.63   0.103    -.5997171
.0546382
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(3)  =   9.46
                                                        Prob > chi2   = 0.0238
                                                        R-squared     = 0.0262
                                                        Adj R-squared = 0.0099
                                                        Root MSE      = 1.0039

                                             (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
---------
                        |   Observed   Bootstrap                         
Normal-based
     z_belonging_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |   .3000376   .2530396     1.19   0.236    -.1959108
.7959861
       1.student_gender |   .3645101   .1281071     2.85   0.004     .1134248
.6155954
                        |
_treated#student_gender |
              Mentee#1  |  -.3004739   .2595829    -1.16   0.247     -.809247
.2082992
                        |
                  _cons |  -.2205594   .1944237    -1.13   0.257    -.6016228
 .160504
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    183
                                                        Replications  =    499
                                                        Wald chi2(3)  =  10.88
                                                        Prob > chi2   = 0.0124
                                                        R-squared     = 0.0595
                                                        Adj R-squared = 0.0437
                                                        Root MSE      = 0.9866

                                                    (Replications based on 13
```

```
clusters in school)
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap
Normal-based
             z_belonging_change | coefficient  std. err.      z    P>|z|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                       _treated |
                        Mentee  |   .4623718   .1783918     2.59   0.010
.1127303    .8120132
                                |
         student_difficultevent |
                            Yes |    .649071   .2039923     3.18   0.001
.2492535    1.048889
                                |
_treated#student_difficultevent |
                     Mentee#Yes |  -.6311579   .2818866    -2.24   0.025
-1.183646   -.0786702
                                |
                          _cons |  -.3553563   .1993152    -1.78   0.075
-.746007    .0352943
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    179
                                                        Replications  =    500
                                                        Wald chi2(1)  =   5.03
                                                        Prob > chi2   = 0.0250
                                                        R-squared     = 0.0134
                                                        Adj R-squared = 0.0078
                                                        Root MSE      = 0.9957

                                  (Replications based on 12 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_sei_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2307811    .102931     2.24   0.025       .02904    .4325221
       _cons |  -.1016074   .0843779    -1.20   0.229    -.2669851    .0637702
------------------------------------------------------------------------------

Linear regression                                       Number of obs =    179
                                                        Replications  =    500
                                                        Wald chi2(3)  =  10.58
                                                        Prob > chi2   = 0.0142
                                                        R-squared     = 0.0247
                                                        Adj R-squared = 0.0080
                                                        Root MSE      = 0.9956

                                             (Replications based on 12 clusters in
```

```
school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
     z_sei_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
             _treated |   .1752212   .1252313     1.40   0.162    -.0702277
.4206701
        student_gender |   .1637878   .1516517     1.08   0.280     -.133444
.4610196
student_difficultevent |   .1274524   .1600044     0.80   0.426    -.1861505
.4410554
                 _cons |  -.2041297   .1127411    -1.81   0.070    -.4250982
.0168387
------------------------------------------------------------------------------

Linear regression                                      Number of obs =    179
                                                       Replications  =    500
                                                       Wald chi2(3)  =  11.71
                                                       Prob > chi2   = 0.0084
                                                       R-squared     = 0.0244
                                                       Adj R-squared = 0.0077
                                                       Root MSE      = 0.9957

                                          (Replications based on 12 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
     z_sei_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
             _treated |
              Mentee  |   .2961282   .1659085     1.78   0.074    -.0290464
.6213028
       1.student_gender |   .3144989    .161613     1.95   0.052    -.0022566
.6312545
                        |
_treated#student_gender |
             Mentee#1  |  -.2522325    .197761    -1.28   0.202     -.639837
 .135372
                        |
                 _cons |  -.2028255   .1057853    -1.92   0.055    -.4101608
.0045098
------------------------------------------------------------------------------

Linear regression                                      Number of obs =    179
```

```
                                                    Replications  =    500
                                                    Wald chi2(3)  =  10.30
                                                    Prob > chi2   = 0.0162
                                                    R-squared     = 0.0238
                                                    Adj R-squared = 0.0071
                                                    Root MSE      = 0.9960

                                                 (Replications based on 12
clusters in school)
------------------------------------------------------------------------------
                             |   Observed   Bootstrap                         
Normal-based
                  z_sei_change | coefficient  std. err.      z    P>|z|     
[95% conf. interval]
-----------------------------+------------------------------------------------
                      _treated |
                       Mentee  |   .3454073   .1167408     2.96   0.003     
.1165996    .5742149
                               |
         student_difficultevent |
                           Yes  |   .2995774   .1933259     1.55   0.121    
-.0793345    .6784892
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.2946773   .2869138    -1.03   0.304    
-.8570181    .2676634
                               |
                         _cons |  -.2186836   .1425066    -1.53   0.125    
-.4979915    .0606243
------------------------------------------------------------------------------

. 
.         ********************
.         ******** Resilience
.         ********************
. 
.         foreach var of varlist  z_brs_change z_wembs_change{
  2.
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated,
cluster(school)
  3.
. *** Outcomes adjusting for student gender and difficult live event
.         bootstrap, reps(500) seed(7582) nodots: regress `var' _treated
student_gender student_difficultevent, cluster(school)
  4.
. *** Interaction between student gender and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
_treated##student_gender, cluster(school)
  5.
. *** Interaction between difficult life event and mentoring
.         bootstrap, reps(500) seed(7582) nodots: regress `var'
```

```
_treated##student_difficultevent, cluster(school)
  6.         }

Linear regression                                       Number of obs =    177
                                                        Replications  =    499
                                                        Wald chi2(1)  =   0.81
                                                        Prob > chi2   = 0.3672
                                                        R-squared     = 0.0077
                                                        Adj R-squared = 0.0021
                                                        Root MSE      = 1.0036

                                  (Replications based on 13 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_brs_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .1764986   .1957157     0.90   0.367    -.2070971    .5600943
       _cons |  -.0962769   .0947596    -1.02   0.310    -.2820022    .0894485
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    177
                                                        Replications  =    499
                                                        Wald chi2(3)  =  12.64
                                                        Prob > chi2   = 0.0055
                                                        R-squared     = 0.0410
                                                        Adj R-squared = 0.0244
                                                        Root MSE      = 0.9923

                                             (Replications based on 13 clusters in
school)
------------------------------------------------------------------------------
--------
                        |   Observed   Bootstrap
Normal-based
          z_brs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
------------------------+-----------------------------------------------------
--------
              _treated |   .1469239    .229525     0.64   0.522    -.3029367
.5967845
        student_gender |   .2501715    .196973     1.27   0.204    -.1358885
.6362315
student_difficultevent |   -.299732   .2085401    -1.44   0.151    -.7084632
.1089991
                 _cons |  -.0578903   .1480758    -0.39   0.696    -.3481135
.232333
------------------------------------------------------------------------------
--------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    177
```

```
                                                      Replications  =    499
                                                      Wald chi2(3)  =  11.51
                                                      Prob > chi2   = 0.0092
                                                      R-squared     = 0.0250
                                                      Adj R-squared = 0.0081
                                                      Root MSE      = 1.0006

                                           (Replications based on 13 clusters
in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
  z_brs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------+----------------------------------------------------------------
      _treated |
       Mentee  |   .2647586   .3454715     0.77   0.443    -.4123532
.9418703
1.student_gender |   .3963391   .1413301     2.80   0.005     .1193372
 .673341
             |
_treated#student_gender |
    Mentee#1  |  -.3157389    .326388    -0.97   0.333    -.9554476
.3239698
             |
         _cons |  -.2299816    .119061    -1.93   0.053    -.4633369
.0033736
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                     Number of obs =    177
                                                      Replications  =    499
                                                      Wald chi2(3)  =   5.41
                                                      Prob > chi2   = 0.1441
                                                      R-squared     = 0.0269
                                                      Adj R-squared = 0.0100
                                                      Root MSE      = 0.9996

                                                    (Replications based on 13
clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
  z_brs_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
      _treated |
       Mentee  |   .2369205   .2482878     0.95   0.340
```

```
-.2497147    .7235557
                                |
         student_difficultevent |
                            Yes |  -.2342502   .1688795    -1.39   0.165
-.5652481    .0967476
                                |
_treated#student_difficultevent |
                     Mentee#Yes |  -.0785094   .2926046    -0.27   0.788
-.6520039    .4949851
                                |
                          _cons |  -.0003189   .1448105    -0.00   0.998
-.2841423    .2835045
------------------------------------------------------------------------------
-----------------
Note: One or more parameters could not be estimated in 1 bootstrap replicate;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =     103
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.68
                                                        Prob > chi2   =  0.4106
                                                        R-squared     =  0.0091
                                                        Adj R-squared = -0.0007
                                                        Root MSE      =  0.9757

                                  (Replications based on 8 clusters in school)
------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_wembs_ch~e | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.2556067   .3106249    -0.82   0.411    -.8644203    .3532069
       _cons |   .0592671   .1870079     0.32   0.751    -.3072616    .4257958
------------------------------------------------------------------------------

Linear regression                                       Number of obs =    103
                                                        Replications  =    500
                                                        Wald chi2(3)  =   3.61
                                                        Prob > chi2   = 0.3070
                                                        R-squared     = 0.0364
                                                        Adj R-squared = 0.0072
                                                        Root MSE      = 0.9718

                                             (Replications based on 8 clusters in
school)
------------------------------------------------------------------------------
--------
                       |   Observed   Bootstrap
Normal-based
       z_wembs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
              _treated |  -.3294984   .3693714    -0.89   0.372    -1.053453
.3944564
```

```
        student_gender |   .0028049   .1905571     0.01   0.988    -.3706801
.3762898
student_difficultevent |   .3274815   .1897384     1.73   0.084     -.044399
.699362
                 _cons |  -.0734455   .2471562    -0.30   0.766    -.5578627
.4109716
------------------------------------------------------------------------------
--------

Linear regression                                       Number of obs =    103
                                                        Replications  =    488
                                                        Wald chi2(3)  =   1.43
                                                        Prob > chi2   = 0.6990
                                                        R-squared     = 0.0397
                                                        Adj R-squared = 0.0106
                                                        Root MSE      = 0.9702

                                             (Replications based on 8 clusters
in school)
------------------------------------------------------------------------------
---------
                         |   Observed   Bootstrap                         
Normal-based
         z_wembs_change | coefficient  std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
---------
               _treated |
                Mentee  |  -.9074822   .7978014    -1.14   0.255    -2.471144
.6561798
       1.student_gender |  -.1026137   .1445514    -0.71   0.478    -.3859293
.1807018
                        |
_treated#student_gender |
              Mentee#1  |   .9993286   .8848869     1.13   0.259    -.7350178
2.733675
                        |
                  _cons |   .0946511   .1963319     0.48   0.630    -.2901523
.4794545
------------------------------------------------------------------------------
---------
Note: One or more parameters could not be estimated in 12 bootstrap replicates;
      standard-error estimates include only complete replications.

Linear regression                                       Number of obs =    103
                                                        Replications  =    500
                                                        Wald chi2(3)  =   6.16
                                                        Prob > chi2   = 0.1040
                                                        R-squared     = 0.0627
                                                        Adj R-squared = 0.0343
                                                        Root MSE      = 0.9585

                                                   (Replications based on 8
clusters in school)
```

```
------------------------------------------------------------------------------
-----------------
                                |   Observed   Bootstrap                        
Normal-based
                z_wembs_change | coefficient  std. err.      z    P>|z|       
[95% conf. interval]
-------------------------------+----------------------------------------------
-----------------
                      _treated |
                        Mentee  |  -.8581405   .6009685    -1.43   0.153      
-2.036017    .3197361
                                |
         student_difficultevent |
                           Yes  |   .1916651   .1939721     0.99   0.323      
-.1885133    .5718435
                                |
_treated#student_difficultevent |
                     Mentee#Yes  |   .8957595   .6927253     1.29   0.196      
-.4619572    2.253476
                                |
                          _cons |  -.0178396   .2113114    -0.08   0.933      
-.4320023    .3963232
------------------------------------------------------------------------------
-----------------

.
.
*******************************************************************************
*********************************************
.
*******************************************************************************
*********************************************
.
. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\03_matched_analy
> sis_26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:36:21
------------------------------------------------------------------------------
------------------------------------------------------------------------------
--------
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\04_low_analysis_
> 26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:36:21

.
.         ****************************
. *** Part 2 - Outcomes for those low at baseline
. ****************************
.
.
. ****************
. *** EPOCH
. ****************
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_engagement_change
_treated if epoc_engagement_pre_low==1

Linear regression                                       Number of obs =      55
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.50
                                                        Prob > chi2   =  0.4815
                                                        R-squared     =  0.0081
                                                        Adj R-squared = -0.0106
                                                        Root MSE      =  0.9418

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_en~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2021454   .2871517     0.70   0.481    -.3606616    .7649524
       _cons |   .3350616   .1379358     2.43   0.015     .0647124    .6054108
------------------------------------------------------------------------------

.
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_perser_change _treated
if epoc_perser_pre_low==1

Linear regression                                       Number of obs =      80
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.17
                                                        Prob > chi2   =  0.6822
                                                        R-squared     =  0.0021
                                                        Adj R-squared = -0.0107
                                                        Root MSE      =  0.8357

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_pe~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
```

```
-------------+----------------------------------------------------------------
    _treated |   .0751014   .1834046     0.41   0.682     -.284365    .4345677
       _cons |   .2890785   .1412499     2.05   0.041     .0122338    .5659231
------------------------------------------------------------------------------

.
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_optimism_change
_treated if epoc_optimism_pre_low==1

Linear regression                                       Number of obs =      71
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.20
                                                        Prob > chi2   =  0.6580
                                                        R-squared     =  0.0029
                                                        Adj R-squared = -0.0115
                                                        Root MSE      =  0.9656

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_op~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .1039187   .2347255     0.44   0.658    -.3561349    .5639723
       _cons |   .4623107    .171235     2.70   0.007     .1266963    .7979251
------------------------------------------------------------------------------

.
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_connect_change _treated
if epoc_connect_pre_low==1

Linear regression                                       Number of obs =      71
                                                        Replications  =     500
                                                        Wald chi2(1)  =    0.88
                                                        Prob > chi2   =  0.3492
                                                        R-squared     =  0.0129
                                                        Adj R-squared = -0.0015
                                                        Root MSE      =  1.0267

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_co~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2328696   .2487438     0.94   0.349    -.2546594    .7203985
       _cons |    .388034   .1917534     2.02   0.043     .0122042    .7638638
------------------------------------------------------------------------------

.
.
. *****************
. ** Belonging
. *****************
. bootstrap, reps(500) seed(7582) nodots: regress z_belonging_change _treated if
belonging_pre_low==1

Linear regression                                       Number of obs =      81
```

```
                                                Replications  =     500
                                                Wald chi2(1)  =    0.05
                                                Prob > chi2   =  0.8245
                                                R-squared     =  0.0007
                                                Adj R-squared = -0.0120
                                                Root MSE      =  1.0014

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_belongi~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .051516   .2322982     0.22   0.824    -.4037802    .5068121
       _cons |   .4621809   .1942826     2.38   0.017     .0813939    .8429678
------------------------------------------------------------------------------

.
.
. ****************
. *** Resilience
. ****************
. bootstrap, reps(500) seed(7582) nodots: regress z_brs_change _treated if
brs_pre_low==1

Linear regression                               Number of obs =      65
                                                Replications  =     500
                                                Wald chi2(1)  =    0.65
                                                Prob > chi2   =  0.4217
                                                R-squared     =  0.0070
                                                Adj R-squared = -0.0088
                                                Root MSE      =  0.9417

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_brs_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .1680959   .2092132     0.80   0.422    -.2419544    .5781462
       _cons |    .540309   .1530266     3.53   0.000     .2403824    .8402356
------------------------------------------------------------------------------

.
. ********************************************
. *** Part 2 - Outcomes for those low at baseline
. ********************************************
.
. ****************
. *** EPOCH
. ****************
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_engagement_change
_treated if epoc_engagement_pre_low==0

Linear regression                               Number of obs =      57
                                                Replications  =     497
                                                Wald chi2(1)  =    0.26
                                                Prob > chi2   =  0.6105
```

```
                                                R-squared     =  0.0076
                                                Adj R-squared = -0.0104
                                                Root MSE      =  0.8781

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_en~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.2672208   .5245761    -0.51   0.610    -1.295371    .7609294
       _cons |  -.4217332   .1140662    -3.70   0.000    -.6452989   -.1981675
------------------------------------------------------------------------------
Note: One or more parameters could not be estimated in 3 bootstrap replicates;
      standard-error estimates include only complete replications.

.
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_perser_change _treated
if epoc_perser_pre_low==0

Linear regression                               Number of obs =     117
                                                Replications  =     500
                                                Wald chi2(1)  =    0.37
                                                Prob > chi2   =  0.5447
                                                R-squared     =  0.0030
                                                Adj R-squared = -0.0057
                                                Root MSE      =  0.9420

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_pe~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.1024641   .1691495    -0.61   0.545    -.4339911    .2290629
       _cons |  -.2476961   .1052893    -2.35   0.019    -.4540594   -.0413328
------------------------------------------------------------------------------

.
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_optimism_change
_treated if epoc_optimism_pre_low==0

Linear regression                               Number of obs =     107
                                                Replications  =     500
                                                Wald chi2(1)  =    0.08
                                                Prob > chi2   =  0.7812
                                                R-squared     =  0.0008
                                                Adj R-squared = -0.0087
                                                Root MSE      =  0.8426

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_op~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .0473975   .1706783     0.28   0.781    -.2871259    .3819208
       _cons |  -.4096883   .1143404    -3.58   0.000    -.6337915   -.1855852
------------------------------------------------------------------------------
```

```
.
. bootstrap, reps(500) seed(7582) nodots: regress z_epoc_connect_change _treated
if epoc_connect_pre_low==0

Linear regression                                       Number of obs =    107
                                                        Replications  =    500
                                                        Wald chi2(1)  =   3.88
                                                        Prob > chi2   = 0.0489
                                                        R-squared     = 0.0316
                                                        Adj R-squared = 0.0223
                                                        Root MSE      = 0.8332

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_epoc_co~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2981606   .1514022     1.97   0.049     .0014178    .5949034
       _cons |  -.4954897   .1023319    -4.84   0.000    -.6960565   -.2949229
------------------------------------------------------------------------------


.
.
. **********
. ** Belonging
. **********
. bootstrap, reps(500) seed(7582) nodots: regress z_belonging_change _treated if
belonging_pre_low==0

Linear regression                                       Number of obs =    102
                                                        Replications  =    500
                                                        Wald chi2(1)  =   2.33
                                                        Prob > chi2   = 0.1266
                                                        R-squared     = 0.0229
                                                        Adj R-squared = 0.0131
                                                        Root MSE      = 0.8409

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_belongi~ge | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2547916   .1667653     1.53   0.127    -.0720625    .5816456
       _cons |   -.496951   .0957286    -5.19   0.000    -.6845756   -.3093265
------------------------------------------------------------------------------


.
.
. **********
. *** Resilience
. **********
. bootstrap, reps(500) seed(7582) nodots: regress z_brs_change _treated if
brs_pre_low==1

Linear regression                                       Number of obs =      65
                                                        Replications  =     500
```

```
                                                Wald chi2(1)  =    0.65
                                                Prob > chi2   =  0.4217
                                                R-squared     =  0.0070
                                                Adj R-squared = -0.0088
                                                Root MSE      =  0.9417

------------------------------------------------------------------------------
             |   Observed   Bootstrap                         Normal-based
z_brs_change | coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .1680959   .2092132     0.80   0.422    -.2419544    .5781462
       _cons |    .540309   .1530266     3.53   0.000     .2403824    .8402356
------------------------------------------------------------------------------

.
. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\04_low_analysis_
> 26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:36:39
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
```

```
------------------------------------------------------------------------------
------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\05_improved_anal
> ysis_26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:36:39

.
. ****************************************
. ** Part 3 - Predicting those who have improved scores
. ****************************************
.
. foreach var of varlist epoc_engagement_change epoc_perser_change
epoc_optimism_change epoc_connect_change belonging_change SSE_total_change
brs_change wembs_change {
  2.         gen `var'_improve = .
  3.         replace `var'_improve=1 if z_`var'>0.1 & z_`var'<.
  4.         replace `var'_improve=0 if z_`var'<=0.1
  5. }
(424 missing values generated)
(44 real changes made)
(68 real changes made)
(424 missing values generated)
(98 real changes made)
(99 real changes made)
(424 missing values generated)
(69 real changes made)
(109 real changes made)
(424 missing values generated)
(89 real changes made)
(89 real changes made)
(424 missing values generated)
(92 real changes made)
(91 real changes made)
(424 missing values generated)
(56 real changes made)
(62 real changes made)
(424 missing values generated)
(80 real changes made)
(97 real changes made)
(424 missing values generated)
(49 real changes made)
(54 real changes made)

.
. foreach var of varlist epoc_engagement_change epoc_perser_change
epoc_optimism_change epoc_connect_change belonging_change SSE_total_change
brs_change wembs_change {
  2.         tab `var'_improve _treated, col
  3.         logistic `var'_improve _treated
```

```
  4.         }

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

epoc_engag |
ement_chan |  Treatment indicator
ge_improve | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        59          9 |        68
           |     62.11      52.94 |     60.71
-----------+----------------------+----------
         1 |        36          8 |        44
           |     37.89      47.06 |     39.29
-----------+----------------------+----------
     Total |        95         17 |       112
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    112
                                                        LR chi2(1)    =   0.50
                                                        Prob > chi2   = 0.4795
Log likelihood = -74.790987                             Pseudo R2     = 0.0033

------------------------------------------------------------------------------
epoc_engagement_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-------------------------------+----------------------------------------------
                      _treated |    1.45679   .7720136     0.71   0.478
.5155965    4.116082
                         _cons |   .6101695   .1290432    -2.34   0.019
.4031179    .9235681
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

epoc_perse |
r_change_i |  Treatment indicator
    mprove | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        52         47 |        99
           |     54.74      46.08 |     50.25
```

```
-----------+----------------------+----------
         1 |        43         55 |        98
           |     45.26      53.92 |     49.75
-----------+----------------------+----------
     Total |        95        102 |       197
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    197
                                                        LR chi2(1)    =   1.48
                                                        Prob > chi2   = 0.2243
Log likelihood = -135.80899                             Pseudo R2     = 0.0054

------------------------------------------------------------------------------
epoc_perser_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
---------------------------+--------------------------------------------------
                  _treated |   1.415141   .4050988     1.21   0.225      .807485
   2.480076
                     _cons |   .8269231   .1704477    -0.92   0.357     .5520941
    1.23856
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

+--------------------+
| Key                |
|--------------------|
|     frequency      |
| column percentage  |
+--------------------+

epoc_optim |
ism_change |  Treatment indicator
  _improve | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        53         56 |       109
           |     63.86      58.95 |     61.24
-----------+----------------------+----------
         1 |        30         39 |        69
           |     36.14      41.05 |     38.76
-----------+----------------------+----------
     Total |        83         95 |       178
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    178
                                                        LR chi2(1)    =   0.45
                                                        Prob > chi2   = 0.5022
Log likelihood = -118.62208                             Pseudo R2     = 0.0019

------------------------------------------------------------------------------
epoc_optimism_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
```

```
conf. interval]
-----------------------------+------------------------------------------------
-------------
                   _treated |   1.230357    .380615     0.67   0.503
.6709795    2.256073
                      _cons |   .5660377    .129326    -2.49   0.013
.3617148    .8857771
------------------------------------------------------------------------------
-------------
Note: _cons estimates baseline odds.

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

epoc_conne |
ct_change_ |  Treatment indicator
   improve | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        52         37 |        89
           |     62.65      38.95 |     50.00
-----------+----------------------+----------
         1 |        31         58 |        89
           |     37.35      61.05 |     50.00
-----------+----------------------+----------
     Total |        83         95 |       178
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    178
                                                        LR chi2(1)    =  10.05
                                                        Prob > chi2   = 0.0015
Log likelihood = -118.35414                             Pseudo R2     = 0.0407

------------------------------------------------------------------------------
-------------
epoc_connect_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
-------------
                   _treated |   2.629468   .8136802     3.12   0.002
1.433727    4.822469
                      _cons |   .5961538   .1352742    -2.28   0.023
.3821298    .9300489
------------------------------------------------------------------------------
-------------
Note: _cons estimates baseline odds.

+-------------------+
| Key               |
|-------------------|
|     frequency     |
```

```
| column percentage |
+-------------------+

belonging_ |
change_imp |  Treatment indicator
      rove | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        51         40 |        91
           |     57.95      42.11 |     49.73
-----------+----------------------+----------
         1 |        37         55 |        92
           |     42.05      57.89 |     50.27
-----------+----------------------+----------
     Total |        88         95 |       183
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    183
                                                        LR chi2(1)    =   4.61
                                                        Prob > chi2   = 0.0318
Log likelihood = -124.53837                             Pseudo R2     = 0.0182

------------------------------------------------------------------------------
belonging_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
                _treated |    1.89527   .5680017     2.13   0.033     1.053346
 3.410134
                   _cons |   .7254902   .1566704    -1.49   0.137     .4751313
  1.10777
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

SSE_total_ |
change_imp |  Treatment indicator
      rove | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        53          9 |        62
           |     52.48      52.94 |     52.54
-----------+----------------------+----------
         1 |        48          8 |        56
           |     47.52      47.06 |     47.46
-----------+----------------------+----------
     Total |       101         17 |       118
           |    100.00     100.00 |    100.00
```

```
Logistic regression                                     Number of obs =    118
                                                        LR chi2(1)    =   0.00
                                                        Prob > chi2   = 0.9716
Log likelihood = -81.638126                             Pseudo R2     = 0.0000

------------------------------------------------------------------------------
SSE_total_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
                _treated |   .9814815   .5154529    -0.04   0.972     .3506303
 2.747355
                   _cons |   .9056604   .1804544    -0.50   0.619      .612861
 1.338347
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

+--------------------+
| Key                |
|--------------------|
|     frequency      |
| column percentage  |
+--------------------+

brs_change |  Treatment indicator
  _improve | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        47         50 |        97
           |     56.63      53.19 |     54.80
-----------+----------------------+----------
         1 |        36         44 |        80
           |     43.37      46.81 |     45.20
-----------+----------------------+----------
     Total |        83         94 |       177
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    177
                                                        LR chi2(1)    =   0.21
                                                        Prob > chi2   = 0.6467
Log likelihood = -121.76437                             Pseudo R2     = 0.0009

------------------------------------------------------------------------------
brs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------+----------------------------------------------------------
          _treated |   1.148889   .3480615     0.46   0.647     .6344573
2.080433
             _cons |   .7659575    .169646    -1.20   0.229      .496225
1.182308
```

```
------------------------------------------------------------------------------
----
Note: _cons estimates baseline odds.

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

wembs_chan |  Treatment indicator
ge_improve | Non - Men     Mentee |     Total
-----------+----------------------+----------
         0 |        45          9 |        54
           |     51.72      56.25 |     52.43
-----------+----------------------+----------
         1 |        42          7 |        49
           |     48.28      43.75 |     47.57
-----------+----------------------+----------
     Total |        87         16 |       103
           |    100.00     100.00 |    100.00

Logistic regression                                     Number of obs =    103
                                                        LR chi2(1)    =   0.11
                                                        Prob > chi2   = 0.7387
Log likelihood = -71.217098                             Pseudo R2     = 0.0008

------------------------------------------------------------------------------
------
wembs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
---------------------+--------------------------------------------------------
------
            _treated |   .8333334   .4564355    -0.33   0.739     .2848371
2.438041
               _cons |   .9333333   .2002468    -0.32   0.748     .6129307
1.421223
------------------------------------------------------------------------------
------
Note: _cons estimates baseline odds.

.
.         foreach var of varlist epoc_engagement_change epoc_perser_change
epoc_optimism_change epoc_connect_change belonging_change SSE_total_change
brs_change wembs_c
> hange {
  2.         logistic `var'_improve student_difficultevent if _treated==1
  3.         logistic `var'_improve student_australia if _treated==1
  4.         logistic `var'_improve student_disability if _treated==1
  5.         logistic `var'_improve i.student_year if _treated==1
  6.         logistic `var'_improve student_gender if _treated==1
  7.         }
```

```
Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   0.71
                                                        Prob > chi2   = 0.3989
Log likelihood = -11.398187                             Pseudo R2     = 0.0303

------------------------------------------------------------------------------
epoc_engagement_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-------------------------------+----------------------------------------------
        student_difficultevent |        2.4   2.536139     0.83   0.407
.3025002    19.04131
                         _cons |         .5   .4330127    -0.80   0.423
.0915815    2.729808
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   1.06
                                                        Prob > chi2   = 0.3022
Log likelihood = -11.221754                             Pseudo R2     = 0.0453

------------------------------------------------------------------------------
epoc_engagement_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-------------------------------+----------------------------------------------
             student_australia |        3.5    4.48609     0.98   0.328
.283824    43.16055
                         _cons |   .3333333   .3849002    -0.95   0.341
.0346734     3.20451
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.
note: student_disability != 0 predicts success perfectly;
      student_disability omitted and 2 obs not used.


Logistic regression                                     Number of obs =     15
                                                        LR chi2(0)    =   0.00
                                                        Prob > chi2   =      .
Log likelihood = -10.095175                             Pseudo R2     = 0.0000

------------------------------------------------------------------------------
epoc_engagement_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-------------------------------+----------------------------------------------
            student_disability |          1  (omitted)
                         _cons |   .6666667   .3513642    -0.77   0.442
```

```
.2372937    1.872972
------------------------------------------------------------------------------
----------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   0.57
                                                        Prob > chi2   = 0.4512
Log likelihood = -11.470256                             Pseudo R2     = 0.0241

------------------------------------------------------------------------------
----------------
epoc_engagement_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-------------------------------+----------------------------------------------
----------------
                  student_year |
                       Year 9  |   2.666667   3.569417     0.73   0.464
.1934678    36.75605
                         _cons |        .75   .4050463    -0.53   0.594
.2602315    2.161537
------------------------------------------------------------------------------
----------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   2.20
                                                        Prob > chi2   = 0.1377
Log likelihood = -10.652331                             Pseudo R2     = 0.0937

------------------------------------------------------------------------------
----------------
epoc_engagement_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-------------------------------+----------------------------------------------
----------------
                student_gender |   5.599999   7.067672     1.37   0.172
.4719541    66.44712
                         _cons |        .25   .2795085    -1.24   0.215
.0279427    2.236723
------------------------------------------------------------------------------
----------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =    102
                                                        LR chi2(1)    =   0.04
                                                        Prob > chi2   = 0.8425
Log likelihood = -70.367234                             Pseudo R2     = 0.0003

------------------------------------------------------------------------------
------------
epoc_perser_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
---------------------------+--------------------------------------------------
```

```
------------
    student_difficultevent |   1.082126   .4299952     0.20   0.843     .4966413
    2.35783
                     _cons |      1.125   .3156095     0.42   0.675     .6491647
   1.949621
------------------------------------------------------------------------------
------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =    102
                                                        LR chi2(1)    =   0.00
                                                        Prob > chi2   = 0.9929
Log likelihood = -70.386925                             Pseudo R2     = 0.0000

------------------------------------------------------------------------------
------------
epoc_perser_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
---------------------------+--------------------------------------------------
------------
         student_australia |   1.004082   .4576273     0.01   0.993     .4109788
   2.453119
                     _cons |   1.166667   .4589642     0.39   0.695     .5396173
   2.522364
------------------------------------------------------------------------------
------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =    102
                                                        LR chi2(1)    =   0.30
                                                        Prob > chi2   = 0.5862
Log likelihood = -70.238827                             Pseudo R2     = 0.0021

------------------------------------------------------------------------------
------------
epoc_perser_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
---------------------------+--------------------------------------------------
------------
        student_disability |    1.32466   .6967542     0.53   0.593       .47248
    3.71386
                     _cons |   1.136264   .2338404     0.62   0.535     .7591084
   1.700805
------------------------------------------------------------------------------
------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =    102
                                                        LR chi2(2)    =   2.72
                                                        Prob > chi2   = 0.2569
Log likelihood = -69.028069                             Pseudo R2     = 0.0193

------------------------------------------------------------------------------
------------
```

```
epoc_perser_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
---------------------------+--------------------------------------------------
------------
              student_year |
                   Year 8  |     2.0625   1.858029     0.80   0.422     .3528406
   12.05617
                   Year 9  |   3.636364    3.43229     1.37   0.171     .5717884
   23.12593
                           |
                     _cons |         .5   .4330127    -0.80   0.423     .0915815
   2.729808
------------------------------------------------------------------------------
------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =    102
                                                        LR chi2(1)    =   0.11
                                                        Prob > chi2   = 0.7433
Log likelihood = -70.333352                             Pseudo R2     = 0.0008

------------------------------------------------------------------------------
------------
epoc_perser_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
---------------------------+--------------------------------------------------
------------
            student_gender |   .8764881   .3530742    -0.33   0.743      .397977
   1.930341
                     _cons |   1.263158   .3878908     0.76   0.447     .6919433
   2.305923
------------------------------------------------------------------------------
------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   0.51
                                                        Prob > chi2   = 0.4767
Log likelihood = -64.066492                             Pseudo R2     = 0.0039

------------------------------------------------------------------------------
--------------
epoc_optimism_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+--------------------------------------------------
--------------
      student_difficultevent |   1.346154   .5630874     0.71   0.477
.5929835    3.055954
                       _cons |         .6   .1788854    -1.71   0.087
.3344814    1.076293
------------------------------------------------------------------------------
--------------
Note: _cons estimates baseline odds.
```

```
Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   2.96
                                                        Prob > chi2   = 0.0852
Log likelihood = -62.838121                             Pseudo R2     = 0.0230

------------------------------------------------------------------------------
epoc_optimism_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
           student_australia |   .4347826   .2117189    -1.71   0.087
.1674081    1.129192
                       _cons |        1.3   .5468089     0.62   0.533
.5700449    2.964679
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   0.57
                                                        Prob > chi2   = 0.4509
Log likelihood = -64.035549                             Pseudo R2     = 0.0044

------------------------------------------------------------------------------
epoc_optimism_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
          student_disability |   1.465808   .7483927     0.75   0.454
.5388673    3.987238
                       _cons |   .6655641   .1449224    -1.87   0.062
.4343563    1.019844
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(2)    =   0.16
                                                        Prob > chi2   = 0.9214
Log likelihood = -64.2378                               Pseudo R2     = 0.0013

------------------------------------------------------------------------------
epoc_optimism_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
                student_year |
                     Year 8  |   1.411765   1.279248     0.38   0.704
.2390341    8.338056
                     Year 9  |   1.444444   1.356916     0.39   0.695
.2291286     9.10589
```

```
                           |
                     _cons |         .5   .4330127    -0.80   0.423
.0915815    2.729808
------------------------------------------------------------------------------
--------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   1.05
                                                        Prob > chi2   = 0.3049
Log likelihood = -63.793374                             Pseudo R2     = 0.0082

------------------------------------------------------------------------------
--------------
epoc_optimism_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
--------------
              student_gender |   1.547619   .6624523     1.02   0.308
.6688221    3.581109
                       _cons |   .5384615   .1784983    -1.87   0.062
.2811798    1.031158
------------------------------------------------------------------------------
--------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   0.09
                                                        Prob > chi2   = 0.7700
Log likelihood = -63.465906                             Pseudo R2     = 0.0007

------------------------------------------------------------------------------
-------------
epoc_connect_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
----------------------------+-------------------------------------------------
-------------
     student_difficultevent |   .8842105   .3722461    -0.29   0.770
.3874415    2.017926
                      _cons |   1.666667    .496904     1.71   0.087
.929115    2.989703
------------------------------------------------------------------------------
-------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   0.95
                                                        Prob > chi2   = 0.3307
Log likelihood = -63.035492                             Pseudo R2     = 0.0075

------------------------------------------------------------------------------
-------------
epoc_connect_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
```

```
-----------------------------+------------------------------------------------
-------------
          student_australia |      .6125   .3138129    -0.96   0.339
.2243856    1.671926
                      _cons |   2.285714   1.035802     1.82   0.068
.9403477    5.555913
------------------------------------------------------------------------------
-------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   1.58
                                                        Prob > chi2   = 0.2092
Log likelihood = -62.720333                             Pseudo R2     = 0.0124

------------------------------------------------------------------------------
-------------
epoc_connect_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
-------------
         student_disability |   2.135244    1.44998     1.12   0.264
.5641862    8.081142
                      _cons |   1.458165   .3172041     1.73   0.083
.9520053    2.233439
------------------------------------------------------------------------------
-------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(2)    =   0.60
                                                        Prob > chi2   = 0.7405
Log likelihood = -63.208214                             Pseudo R2     = 0.0047

------------------------------------------------------------------------------
-------------
epoc_connect_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
-----------------------------+------------------------------------------------
-------------
               student_year |
                    Year 8  |   1.761905   1.516992     0.66   0.511
.3259132    9.524954
                    Year 9  |   1.384615   1.237776     0.36   0.716
.2401033    7.984728
                            |
                      _cons |          1   .8164966     0.00   1.000
.2018352    4.954538
------------------------------------------------------------------------------
-------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   0.03
```

```
                                                  Prob > chi2   = 0.8577
Log likelihood = -63.492563                       Pseudo R2     = 0.0003

------------------------------------------------------------------------------
epoc_connect_change_improve | Odds ratio   Std. err.      z    P>|z|     [95%
conf. interval]
----------------------------+-------------------------------------------------
             student_gender |   1.079365   .4594565     0.18   0.858
.4686352    2.486004
                      _cons |        1.5   .4841229     1.26   0.209
.7968327    2.823679
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                               Number of obs =     95
                                                  LR chi2(1)    =   0.55
                                                  Prob > chi2   = 0.4567
Log likelihood = -64.382871                       Pseudo R2     = 0.0043

------------------------------------------------------------------------------
belonging_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
  student_difficultevent |   1.363248   .5685812     0.74   0.458     .6019453
 3.087398
                   _cons |   1.181818   .3423523     0.58   0.564     .6698419
  2.08511
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                               Number of obs =     95
                                                  LR chi2(1)    =   0.40
                                                  Prob > chi2   = 0.5246
Log likelihood = -64.457416                       Pseudo R2     = 0.0031

------------------------------------------------------------------------------
belonging_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
       student_australia |   1.359195   .6546484     0.64   0.524     .5288174
 3.493478
                   _cons |   1.090909   .4553712     0.21   0.835     .4813677
 2.472294
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.
```

```
Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   2.04
                                                        Prob > chi2   = 0.1534
Log likelihood = -63.640593                             Pseudo R2     = 0.0158

------------------------------------------------------------------------------
belonging_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
      student_disability |    2.35742   1.613633     1.25   0.210     .6163069
 9.017308
                   _cons |   1.267218   .2727598     1.10   0.271     .8310672
 1.932264
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(2)    =   0.00
                                                        Prob > chi2   = 0.9990
Log likelihood = -64.658808                             Pseudo R2     = 0.0000

------------------------------------------------------------------------------
belonging_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
            student_year |
                 Year 8  |    1.03125    .834805     0.04   0.970     .2110132
 5.039858
                 Year 9  |   1.038462   .8785974     0.04   0.964     .1977997
 5.451992
                         |
                   _cons |   1.333333    1.01835     0.38   0.706     .2984165
 5.957371
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     95
                                                        LR chi2(1)    =   0.28
                                                        Prob > chi2   = 0.5957
Log likelihood = -64.519065                             Pseudo R2     = 0.0022

------------------------------------------------------------------------------
belonging_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
```

```
          student_gender |         .8    .337046    -0.53   0.596      .350326
  1.82687
                   _cons |     1.5625   .5002441     1.39   0.163     .8342622
 2.926426
------------------------------------------------------------------------------
----------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   0.03
                                                        Prob > chi2   = 0.8576
Log likelihood = -11.737985                             Pseudo R2     = 0.0014

------------------------------------------------------------------------------
----------
SSE_total_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
----------
  student_difficultevent |   .8333333   .8471084    -0.18   0.858     .1136441
 6.110696
                   _cons |          1   .8164966    -0.00   1.000     .2018352
 4.954538
------------------------------------------------------------------------------
----------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   1.06
                                                        Prob > chi2   = 0.3022
Log likelihood = -11.221754                             Pseudo R2     = 0.0453

------------------------------------------------------------------------------
----------
SSE_total_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
----------
       student_australia |        3.5    4.48609     0.98   0.328      .283824
 43.16055
                   _cons |   .3333333   .3849002    -0.95   0.341     .0346734
  3.20451
------------------------------------------------------------------------------
----------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   0.01
                                                        Prob > chi2   = 0.9294
Log likelihood = -11.750144                             Pseudo R2     = 0.0003

------------------------------------------------------------------------------
----------
SSE_total_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
```

```
interval]
-------------------------+----------------------------------------------------
----------
      student_disability |   1.142857   1.721075     0.09   0.929     .0597218
 21.87011
                   _cons |       .875   .4528555    -0.26   0.796     .3172995
 2.412941
------------------------------------------------------------------------------
----------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   0.28
                                                        Prob > chi2   = 0.5961
Log likelihood = -11.613603                             Pseudo R2     = 0.0120

------------------------------------------------------------------------------
----------
SSE_total_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
----------
            student_year |
                 Year 9  |         .5   .6681531    -0.52   0.604     .0364338
 6.861766
                   _cons |          1   .5345225     0.00   1.000     .3507629
 2.850929
------------------------------------------------------------------------------
----------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     17
                                                        LR chi2(1)    =   2.20
                                                        Prob > chi2   = 0.1377
Log likelihood = -10.652331                             Pseudo R2     = 0.0937

------------------------------------------------------------------------------
----------
SSE_total_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------------+----------------------------------------------------
----------
          student_gender |   5.599999   7.067672     1.37   0.172     .4719541
 66.44712
                   _cons |        .25   .2795085    -1.24   0.215     .0279427
 2.236723
------------------------------------------------------------------------------
----------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     94
                                                        LR chi2(1)    =   4.31
                                                        Prob > chi2   = 0.0380
Log likelihood = -62.811085                             Pseudo R2     = 0.0331
```

```
------------------------------------------------------------------------------
    brs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
----------------------+-------------------------------------------------------
student_difficultevent |   .4197531   .1776869    -2.05   0.040     .1830919
.9623179
                 _cons |       1.35   .3982775     1.02   0.309     .7572023
2.406886
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     94
                                                        LR chi2(1)    =   0.69
                                                        Prob > chi2   = 0.4063
Log likelihood = -64.619437                             Pseudo R2     = 0.0053

------------------------------------------------------------------------------
brs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------+----------------------------------------------------------
 student_australia |   .6666667    .326315    -0.83   0.407     .2554283
1.739997
             _cons |        1.2   .5138093     0.43   0.670     .5184639
2.777435
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     94
                                                        LR chi2(1)    =   0.01
                                                        Prob > chi2   = 0.9399
Log likelihood = -64.961377                             Pseudo R2     = 0.0000

------------------------------------------------------------------------------
brs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
-------------------+----------------------------------------------------------
student_disability |    .962568   .4877651    -0.08   0.940     .3565327
2.598744
             _cons |   .8839296   .1900273    -0.57   0.566     .5799977
1.347129
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     94
```

```
                                                      LR chi2(2)    =   3.73
                                                      Prob > chi2   = 0.1549
Log likelihood = -63.09913                            Pseudo R2     = 0.0287

------------------------------------------------------------------------------
brs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------------+----------------------------------------------------------------
      student_year |
           Year 8  |   6.214286   6.911179     1.64   0.100     .7026398    54.96038
           Year 9  |       5.25   5.987291     1.45   0.146     .5615883    49.07955
                   |
             _cons |   .1666667   .1800206    -1.66   0.097     .0200653    1.384368
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                   Number of obs =     94
                                                      LR chi2(1)    =   0.01
                                                      Prob > chi2   = 0.9364
Log likelihood = -64.96103                            Pseudo R2     = 0.0000

------------------------------------------------------------------------------
brs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------------+----------------------------------------------------------------
    student_gender |   1.033835   .4309992     0.08   0.936     .4566573    2.340516
             _cons |   .8636364   .2704797    -0.47   0.640     .4674613    1.595571
------------------------------------------------------------------------------
Note: _cons estimates baseline odds.

Logistic regression                                   Number of obs =     16
                                                      LR chi2(1)    =   0.43
                                                      Prob > chi2   = 0.5125
Log likelihood = -10.750557                           Pseudo R2     = 0.0196

------------------------------------------------------------------------------
  wembs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf. interval]
-----------------------+------------------------------------------------------------------
student_difficultevent |          2   2.144761     0.65   0.518     .2444658    16.36221
```

```
                _cons |         .5   .4330127    -0.80   0.423     .0915815
2.729808
------------------------------------------------------------------------------
--------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     16
                                                        LR chi2(1)    =   0.80
                                                        Prob > chi2   = 0.3723
Log likelihood = -10.567107                             Pseudo R2     = 0.0363

------------------------------------------------------------------------------
------
wembs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
---------------------+--------------------------------------------------------
------
   student_australia |          3   3.872983     0.85   0.395     .2389048
37.67192
               _cons |   .3333333   .3849002    -0.95   0.341     .0346734
3.20451
------------------------------------------------------------------------------
------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     16
                                                        LR chi2(1)    =   0.04
                                                        Prob > chi2   = 0.8494
Log likelihood = -10.947008                             Pseudo R2     = 0.0016

------------------------------------------------------------------------------
------
wembs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
---------------------+--------------------------------------------------------
------
  student_disability |   1.333333   2.018434     0.19   0.849      .068607
25.91248
               _cons |        .75   .4050463    -0.53   0.594     .2602315
2.161537
------------------------------------------------------------------------------
------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     16
                                                        LR chi2(1)    =   0.79
                                                        Prob > chi2   = 0.3748
Log likelihood = -10.571162                             Pseudo R2     = 0.0359

------------------------------------------------------------------------------
------
wembs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
---------------------+--------------------------------------------------------
```

```
------
        student_year |
             Year 9  |        3.2   4.322962     0.86   0.389     .2265896
45.19183
               _cons |       .625   .3563048    -0.82   0.410     .2044657
1.910467
------------------------------------------------------------------------------
------
Note: _cons estimates baseline odds.

Logistic regression                                     Number of obs =     16
                                                        LR chi2(1)    =   0.04
                                                        Prob > chi2   = 0.8381
Log likelihood = -10.94416                              Pseudo R2     = 0.0019

------------------------------------------------------------------------------
------
wembs_change_improve | Odds ratio   Std. err.      z    P>|z|     [95% conf.
interval]
---------------------+--------------------------------------------------------
------
      student_gender |       1.25   1.369306     0.20   0.839     .1460379
10.69928
               _cons |   .6666667   .6085806    -0.44   0.657     .1113965
3.989752
------------------------------------------------------------------------------
------
Note: _cons estimates baseline odds.

.
. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\05_improved_anal
> ysis_26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:36:41
------------------------------------------------------------------------------
------------------------------------------------------------------------------
--------
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\06_outcomes_anal
> ysis_26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:36:41

.
. ****************************
. *** Part 4 - Looking at differences at follow up
. ****************************
.
. ****************
. *** EPOCH ******
. ****************
.
. *** Pattern of missing
. mdesc epoc_engagement_post epoc_perser_post epoc_optimism_post
epoc_connect_post epoc_happy_post SSE_productivity_post SSE_belong_post
SSE_aspiration_post SSE_total_p
> ost

    Variable    |     Missing          Total     Percent Missing
----------------+-----------------------------------------------
   epoc_engag~t |         302            424          71.23
   epoc_perse~t |         227            424          53.54
   epoc_optim~t |         246            424          58.02
   epoc_conne~t |         246            424          58.02
   epoc_happy~t |         302            424          71.23
   SSE_produc~t |         296            424          69.81
   SSE_belong~t |         296            424          69.81
   SSE_aspira~t |         296            424          69.81
   SSE_total_~t |         296            424          69.81
----------------+-----------------------------------------------

.
. *** EPOC Engagement
. mean epoc_engagement_pre, over(student_mentee)

Mean estimation                                                 Number of obs
= 312

-------------------------------------------------------------------------------
------
                                    |       Mean   Std. err.     [95% conf.
interval]
------------------------------------+------------------------------------------
------
c.epoc_engagement_pre@student_mentee |
                                 No  |   2.996075   .0579047       2.88214
```

```
3.110009
                                Yes  |   2.736111   .1687208      2.404132
3.06809
------------------------------------------------------------------------------
------

. mean epoc_engagement_post, over(student_mentee)

Mean estimation                                                  Number of
obs = 122

------------------------------------------------------------------------------
-------
                                     |       Mean   Std. err.     [95% conf.
interval]
-------------------------------------+----------------------------------------
-------
c.epoc_engagement_post@student_mentee |
                                  No  |   3.005263   .0922515      2.822627
3.187899
                                 Yes  |   2.993827   .1617219      2.673656
3.313998
------------------------------------------------------------------------------
-------

.
. foreach var of varlist epoc_engagement_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee epoc_engagement_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##epoc_engagement_pre_low
student_difficultevent student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       122
-------------+----------------------------------   F(1, 120)       =      0.00
       Model |   .00274964         1   .00274964   Prob > F        =    0.9529
    Residual |  94.3574507       120  .786312089   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =   -0.0083
       Total |  94.3602003       121  .779836366   Root MSE        =    .88674

------------------------------------------------------------------------------
epoc_engagem~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   -.011436   .1933899    -0.06   0.953    -.3943345    .3714625
         _cons |   3.005263   .0909779    33.03   0.000     2.825133    3.185393
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(2, 109)       =     12.73
       Model |  16.1699849         2  8.08499245   Prob > F        =    0.0000
    Residual |   69.235707       109  .635189973   R-squared       =    0.1893
-------------+----------------------------------   Adj R-squared   =    0.1745
```

```
       Total |  85.4056919       111  .769420648   Root MSE        =    .79699

------------------------------------------------------------------------------
---------
   epoc_engagement_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
         student_mentee |   .0765179   .2134373     0.36   0.721    -.3465078
.4995436
epoc_engagement_pre_low |  -.7681167   .1531926    -5.01   0.000    -1.071739
-.464494
                  _cons |   3.352937   .1072111    31.27   0.000     3.140448
3.565426
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       122
-------------+----------------------------------   F(2, 119)       =      1.02
       Model |  1.59570117         2  .797850583   Prob > F        =    0.3625
    Residual |  92.7644991       119  .779533606   R-squared       =    0.0169
-------------+----------------------------------   Adj R-squared   =    0.0004
       Total |  94.3602003       121  .779836366   Root MSE        =    .88291

------------------------------------------------------------------------------
epoc_engagem~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .0946855   .2063694     0.46   0.647    -.3139466    .5033175
student_gender |  -.2465594   .1724796    -1.43   0.155    -.5880862    .0949674
         _cons |    3.09091   .1086062    28.46   0.000     2.875859    3.305961
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       122
-------------+----------------------------------   F(2, 119)       =      3.04
       Model |   4.5862779         2  2.29313895   Prob > F        =    0.0516
    Residual |  89.7739224       119  .754402709   R-squared       =    0.0486
-------------+----------------------------------   Adj R-squared   =    0.0326
       Total |  94.3602003       121  .779836366   Root MSE        =    .86856

------------------------------------------------------------------------------
--------
  epoc_engagement_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
         student_mentee |   .0842286   .1933603     0.44   0.664    -.2986441
.4671013
student_difficultevent |  -.3983437   .1616068    -2.46   0.015    -.7183413
-.0783461
                  _cons |   3.160408   .1090996    28.97   0.000     2.944379
3.376436
------------------------------------------------------------------------------
--------
```

```
      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(5, 106)       =      5.39
       Model |  17.3019417         5  3.46038834   Prob > F        =    0.0002
    Residual |  68.1037502       106  .642488209   R-squared       =    0.2026
-------------+----------------------------------   Adj R-squared   =    0.1650
       Total |  85.4056919       111  .769420648   Root MSE        =    .80155

------------------------------------------------------------------------------
-------------------------
                  epoc_engagement_post | Coefficient  Std. err.      t    P>|t|
   [95% conf. interval]
---------------------------------------+--------------------------------------
-------------------------
                         student_mentee |
                                   Yes  |    .182661   .3759693     0.49   0.628
  -.5627347    .9280567
                                        |
                       epoc_engagement_pre_low |
                              Low at baseline  |  -.7052447   .1694147    -4.16   0.000
  -1.041126   -.3693635
                                        |
student_mentee#epoc_engagement_pre_low |
                            Yes#Low at baseline  |  -.0579297    .461226    -0.13   0.900
   -.972355    .8564956
                                        |
                        student_difficultevent |  -.1750384   .1615036    -1.08   0.281
   -.495235    .1451583
                         student_gender |  -.1006562   .1636385    -0.62   0.540
  -.4250854    .2237729
                                  _cons |   3.427617   .1288597    26.60   0.000
    3.17214    3.683094
------------------------------------------------------------------------------
-------------------------

.
. ** EPOC Perservence
. mean epoc_perser_pre, over(student_mentee)

Mean estimation                                           Number of obs =
424

------------------------------------------------------------------------------
--
                                    |       Mean   Std. err.     [95% conf.
interval]
------------------------------------+-----------------------------------------
--
c.epoc_perser_pre@student_mentee |
                                 No  |   3.192029   .0558734      3.082205
3.301853
                                Yes  |   3.103604   .0764727       2.95329
3.253918
------------------------------------------------------------------------------
--
```

```
. mean epoc_perser_post, over(student_mentee)

Mean estimation                                                 Number of obs =
197

------------------------------------------------------------------------------
---
                                    |       Mean   Std. err.     [95% conf.
interval]
------------------------------------+-----------------------------------------
---
c.epoc_perser_post@student_mentee |
                                 No  |   3.318421   .0907572      3.139435
3.497407
                                Yes  |   3.310458   .1030719      3.107185
3.51373
------------------------------------------------------------------------------
---

.
. foreach var of varlist epoc_perser_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee epoc_perser_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##epoc_perser_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(1, 195)       =      0.00
       Model |   .00311939         1   .00311939   Prob > F        =    0.9541
    Residual |  183.001886       195  .938471209   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =   -0.0051
       Total |  183.005005       196  .933699006   Root MSE        =    .96875

------------------------------------------------------------------------------
epoc_perser_~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.0079635    .138128    -0.06   0.954    -.2803801     .264453
         _cons |   3.318421   .0993914    33.39   0.000     3.122401    3.514441
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(2, 194)       =     32.43
       Model |  45.8558274         2  22.9279137   Prob > F        =    0.0000
    Residual |  137.149178       194  .706954525   R-squared       =    0.2506
-------------+----------------------------------   Adj R-squared   =    0.2428
       Total |  183.005005       196  .933699006   Root MSE        =    .84081

------------------------------------------------------------------------------
-----
   epoc_perser_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
```

```
interval]
--------------------+------------------------------------------------------------
-----
     student_mentee |  -.0363623   .1199374    -0.30   0.762     -.272911
.2001864
epoc_perser_pre_low |  -.9828007   .1220334    -8.05   0.000    -1.223483
-.7421182
              _cons |   3.732232   .1004081    37.17   0.000       3.5342
3.930264
------------------------------------------------------------------------------
-----

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(2, 194)       =      0.95
       Model |  1.77762218         2  .888811092   Prob > F        =    0.3880
    Residual |  181.227383       194  .934161768   R-squared       =    0.0097
-------------+----------------------------------   Adj R-squared   =   -0.0005
       Total |  183.005005       196  .933699006   Root MSE        =    .96652

------------------------------------------------------------------------------
epoc_perser_~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .0372185   .1416559     0.26   0.793    -.2421649    .3166019
student_gender |  -.1955399   .1418757    -1.38   0.170    -.4753568     .084277
         _cons |   3.386345   .1107344    30.58   0.000     3.167948    3.604743
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(2, 194)       =      1.65
       Model |  3.05516148         2  1.52758074   Prob > F        =    0.1953
    Residual |  179.949844       194  .927576514   R-squared       =    0.0167
-------------+----------------------------------   Adj R-squared   =    0.0066
       Total |  183.005005       196  .933699006   Root MSE        =    .96311

------------------------------------------------------------------------------
--------
      epoc_perser_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
        student_mentee |   .0198807   .1381792     0.14   0.886    -.2526455
.292407
student_difficultevent |  -.2519244   .1388832    -1.81   0.071    -.5258393
.0219905
                 _cons |   3.416539   .1126492    30.33   0.000     3.194365
3.638713
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(5, 191)       =     12.79
       Model |  45.8909824         5  9.17819649   Prob > F        =    0.0000
    Residual |  137.114023       191  .717874465   R-squared       =    0.2508
-------------+----------------------------------   Adj R-squared   =    0.2312
```

```
       Total |  183.005005       196  .933699006   Root MSE        =    .84727

------------------------------------------------------------------------------
-------------------
                  epoc_perser_post | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
-----------------------------------+------------------------------------------
-------------------
                    student_mentee |
                               Yes |   -.030598   .1608316    -0.19   0.849
-.3478321    .2866362
                                   |
                epoc_perser_pre_low |
                   Low at baseline |  -.9796427   .1825129    -5.37   0.000
-1.339642   -.6196429
                                   |
student_mentee#epoc_perser_pre_low |
              Yes#Low at baseline  |   .0007853   .2475392     0.00   0.997
-.4874763     .489047
                                   |
            student_difficultevent |   .0043254   .1276414     0.03   0.973
-.2474424    .2560932
                    student_gender |  -.0279541   .1267148    -0.22   0.826
-.2778943    .2219861
                             _cons |   3.738928   .1230296    30.39   0.000
3.496257    3.981599
------------------------------------------------------------------------------
-------------------

.
. ** EPOC Optimism
. mean epoc_optimism_pre, over(student_mentee)

Mean estimation                                          Number of obs =
424

------------------------------------------------------------------------------
----
                                   |       Mean   Std. err.     [95% conf.
interval]
-----------------------------------+------------------------------------------
----
c.epoc_optimism_pre@student_mentee |
                                No |   3.066425   .0608255      2.946867
3.185983
                               Yes |   2.927365   .0858326      2.758653
3.096076
------------------------------------------------------------------------------
----

. mean epoc_optimism_post, over(student_mentee)

Mean estimation                                           Number of obs
= 178
```

```
------------------------------------------------------------------------------
-----
                                    |       Mean   Std. err.     [95% conf.
interval]
------------------------------------+-----------------------------------------
-----
c.epoc_optimism_post@student_mentee |
                                 No |   3.205823   .1012877      3.005936
3.40571
                                Yes |   3.194737   .1026782      2.992106
3.397368
------------------------------------------------------------------------------
-----

.
. foreach var of varlist epoc_optimism_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee epoc_optimism_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee epoc_optimism_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(1, 176)       =      0.01
       Model |  .005444612         1  .005444612   Prob > F        =    0.9392
    Residual |  163.971499       176  .931656242   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =   -0.0056
       Total |  163.976943       177  .926423408   Root MSE        =    .96522

------------------------------------------------------------------------------
epoc_optimis~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.0110865    .145023    -0.08   0.939    -.2972944    .2751215
         _cons |   3.205823    .105947    30.26   0.000     2.996733    3.414913
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =     42.81
       Model |  53.8688497         2  26.9344249   Prob > F        =    0.0000
    Residual |  110.108094       175  .629189106   R-squared       =    0.3285
-------------+----------------------------------   Adj R-squared   =    0.3208
       Total |  163.976943       177  .926423408   Root MSE        =    .79321

------------------------------------------------------------------------------
-------
   epoc_optimism_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
----------------------+-------------------------------------------------------
-------
       student_mentee |   .0169899   .1192176     0.14   0.887    -.2182995
.2522793
```

```
epoc_optimism_pre_low |  -1.123768   .1214564    -9.25   0.000    -1.363476
-.88406
                _cons |   3.639083   .0988601    36.81   0.000     3.443972
3.834195
------------------------------------------------------------------------------
-------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =      0.59
       Model |  1.08921878         2  .544609388   Prob > F        =    0.5581
    Residual |  162.887724       175  .930786997   R-squared       =    0.0066
-------------+----------------------------------   Adj R-squared   =   -0.0047
       Total |  163.976943       177  .926423408   Root MSE        =    .96477

------------------------------------------------------------------------------
epoc_optimis~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .0278567   .1493806     0.19   0.852    -.2669626    .3226761
student_gender |  -.1611901   .1493806    -1.08   0.282    -.4560094    .1336292
         _cons |   3.260201   .1172766    27.80   0.000     3.028742    3.491659
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =      5.11
       Model |  9.04327927         2  4.52163964   Prob > F        =    0.0070
    Residual |  154.933664       175  .885335223   R-squared       =    0.0551
-------------+----------------------------------   Adj R-squared   =    0.0444
       Total |  163.976943       177  .926423408   Root MSE        =    .94092

------------------------------------------------------------------------------
--------
    epoc_optimism_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |   .0275608   .1418884     0.19   0.846    -.2524719
.3075935
student_difficultevent |  -.4541483    .142141    -3.20   0.002    -.7346796
-.1736171
                _cons |    3.39186   .1185623    28.61   0.000     3.157864
3.625856
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(4, 173)       =     23.78
       Model |  58.1796182         4  14.5449046   Prob > F        =    0.0000
    Residual |  105.797325       173  .611545231   R-squared       =    0.3548
-------------+----------------------------------   Adj R-squared   =    0.3399
       Total |  163.976943       177  .926423408   Root MSE        =    .78201

------------------------------------------------------------------------------
--------
    epoc_optimism_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
```

```
interval]
----------------------+------------------------------------------------------------
--------
        student_mentee |   .0466436   .1213401     0.38   0.701    -.1928539
.2861411
 epoc_optimism_pre_low |  -1.080682   .1213753    -8.90   0.000     -1.32025
-.8411152
student_difficultevent |  -.3148855   .1193856    -2.64   0.009    -.5505253
-.0792457
        student_gender |  -.0162828    .122071    -0.13   0.894     -.257223
.2246575
                 _cons |   3.756954   .1115306    33.69   0.000     3.536818
3.97709
------------------------------------------------------------------------------
--------

.
.
. regress epoc_optimism_post student_mentee

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(1, 176)       =      0.01
       Model |  .005444612         1  .005444612   Prob > F        =    0.9392
    Residual |  163.971499       176  .931656242   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =   -0.0056
       Total |  163.976943       177  .926423408   Root MSE        =    .96522

------------------------------------------------------------------------------
epoc_optimis~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.0110865    .145023    -0.08   0.939    -.2972944    .2751215
         _cons |   3.205823    .105947    30.26   0.000     2.996733    3.414913
------------------------------------------------------------------------------

. regress epoc_optimism_post student_mentee student_difficultevent
epoc_optimism_pre

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(3, 174)       =     65.94
       Model |  87.2417959         3  29.0805986   Prob > F        =    0.0000
    Residual |  76.7351474       174  .441006594   R-squared       =    0.5320
-------------+----------------------------------   Adj R-squared   =    0.5240
       Total |  163.976943       177  .926423408   Root MSE        =    .66408

------------------------------------------------------------------------------
--------
    epoc_optimism_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
        student_mentee |   .0477991   .1001534     0.48   0.634    -.1498728
.245471
student_difficultevent |  -.0731975   .1043195    -0.70   0.484     -.279092
.1326971
```

```
     epoc_optimism_pre |   .6452169   .0484539    13.32   0.000     .5495838
 .74085
                 _cons |   1.286553   .1788813     7.19   0.000     .9334968
1.63961
------------------------------------------------------------------------------
--------

. regress epoc_optimism_post student_mentee##student_difficultevent
epoc_optimism_pre

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(4, 173)       =     49.67
       Model |  87.6548886         4  21.9137221   Prob > F        =    0.0000
    Residual |  76.3220547       173  .441167946   R-squared       =    0.5346
-------------+----------------------------------   Adj R-squared   =    0.5238
       Total |  163.976943       177  .926423408   Root MSE        =     .6642

------------------------------------------------------------------------------
-----------------------
                  epoc_optimism_post | Coefficient  Std. err.      t    P>|t|
  [95% conf. interval]
-------------------------------------+----------------------------------------
-----------------------
                      student_mentee |
                                 Yes |   .1356707   .1352056     1.00   0.317
 -.1311943    .4025356
                                     |
               student_difficultevent |
                                 Yes |   .0351758   .1530671     0.23   0.819
 -.2669436    .3372953
                                     |
student_mentee#student_difficultevent |
                           Yes#Yes |  -.1955897    .202127    -0.97   0.335
 -.5945421    .2033627
                                     |
                  epoc_optimism_pre |   .6492421    .048641    13.35   0.000
  .5532359    .7452483
                              _cons |   1.229999    .188218     6.53   0.000
  .8584996    1.601498
------------------------------------------------------------------------------
-----------------------

.
.
. ** EPOC Connectiveness
. mean epoc_connect_pre, over(student_mentee)

Mean estimation                                          Number of obs =
424

------------------------------------------------------------------------------
---
                                    |       Mean   Std. err.     [95% conf.
interval]
```

```
---------------------------------+--------------------------------------------
---
c.epoc_connect_pre@student_mentee |
                              No  |   3.838164   .0558608      3.728365
3.947964
                             Yes  |   3.689189   .0755741      3.540642
3.837737
------------------------------------------------------------------------------
---

. mean epoc_connect_post, over(student_mentee)

Mean estimation                                                 Number of obs =
178

------------------------------------------------------------------------------
----
                                    |       Mean   Std. err.     [95% conf.
interval]
---------------------------------+--------------------------------------------
----
c.epoc_connect_post@student_mentee |
                              No  |   3.893574    .088029      3.719853
4.067296
                             Yes  |    4.02807   .0839341       3.86243
4.193711
------------------------------------------------------------------------------
----

.
.
. foreach var of varlist epoc_connect_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee epoc_connect_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##epoc_connect_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(1, 176)       =      1.22
       Model |  .801308307         1  .801308307   Prob > F        =    0.2710
    Residual |  115.651719       176  .657112042   R-squared       =    0.0069
-------------+----------------------------------   Adj R-squared   =    0.0012
       Total |  116.453028       177   .65792671   Root MSE        =    .81062

------------------------------------------------------------------------------
epoc_connect~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .1344959   .1217948     1.10   0.271    -.1058704    .3748622
         _cons |   3.893574   .0889776    43.76   0.000     3.717974    4.069175
------------------------------------------------------------------------------
```

```
      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =     47.09
       Model |  40.7444071         2  20.3722036   Prob > F        =    0.0000
    Residual |  75.7086205       175  .432620689   R-squared       =    0.3499
-------------+----------------------------------   Adj R-squared   =    0.3424
       Total |  116.453028       177   .65792671   Root MSE        =    .65774

------------------------------------------------------------------------------
------
   epoc_connect_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
---------------------+--------------------------------------------------------
------
      student_mentee |   .1805586   .0989403     1.82   0.070    -.0147112
.3758284
epoc_connect_pre_low |  -.9685458   .1007982    -9.61   0.000    -1.167483
-.7696092
               _cons |    4.25532   .0814226    52.26   0.000     4.094624
4.416017
------------------------------------------------------------------------------
------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =      1.35
       Model |  1.76882434         2  .884412168   Prob > F        =    0.2620
    Residual |  114.684203       175  .655338305   R-squared       =    0.0152
-------------+----------------------------------   Adj R-squared   =    0.0039
       Total |  116.453028       177   .65792671   Root MSE        =    .80953

------------------------------------------------------------------------------
epoc_connect~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .0977007   .1253435     0.78   0.437    -.1496788    .3450801
student_gender |   .1522993   .1253435     1.22   0.226    -.0950801    .3996788
         _cons |   3.842196   .0984054    39.04   0.000     3.647982     4.03641
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =      4.44
       Model |  5.62201552         2  2.81100776   Prob > F        =    0.0132
    Residual |  110.831012       175  .633320069   R-squared       =    0.0483
-------------+----------------------------------   Adj R-squared   =    0.0374
       Total |  116.453028       177   .65792671   Root MSE        =    .79581

------------------------------------------------------------------------------
--------
     epoc_connect_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |   .1627214   .1200065     1.36   0.177    -.0741249
.3995676
student_difficultevent |  -.3316812   .1202201    -2.76   0.006    -.5689491
-.0944133
```

```
                _cons |   4.029444   .1002777    40.18   0.000     3.831534
4.227353
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(5, 172)       =     20.28
       Model |  43.1924839         5  8.63849678   Prob > F        =    0.0000
    Residual |  73.2605437       172  .425933394   R-squared       =    0.3709
-------------+----------------------------------   Adj R-squared   =    0.3526
       Total |  116.453028       177   .65792671   Root MSE        =    .65264

------------------------------------------------------------------------------
---------------------
                  epoc_connect_post | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
------------------------------------+-----------------------------------------
---------------------
                     student_mentee |
                                Yes |   .1102022    .127662     0.86   0.389
-.1417837    .3621881
                                    |
                epoc_connect_pre_low |
                    Low at baseline |  -.9905661   .1520779    -6.51   0.000
-1.290745   -.6903868
                                    |
student_mentee#epoc_connect_pre_low |
               Yes#Low at baseline  |   .0718034   .2029712     0.35   0.724
-.3288318    .4724385
                                    |
             student_difficultevent |  -.1169887   .1022041    -1.14   0.254
-.3187245    .0847471
                     student_gender |   .2116169   .1022596     2.07   0.040
.0097716    .4134621
                              _cons |   4.240079   .1014395    41.80   0.000
4.039852    4.440306
------------------------------------------------------------------------------
---------------------

.
.
. ** EPOC Happiness
. mean epoc_happy_pre, over(student_mentee)

Mean estimation                                           Number of obs =
312

------------------------------------------------------------------------------
-
                                |       Mean   Std. err.     [95% conf.
interval]
--------------------------------+---------------------------------------------
-
c.epoc_happy_pre@student_mentee |
```

```
                            No  |    3.38587   .0609724      3.265899
3.50584
                           Yes  |   3.331019   .1683934      2.999684
3.662353
------------------------------------------------------------------------------
-

. mean epoc_happy_post, over(student_mentee)

Mean estimation                                                 Number of obs =
122

------------------------------------------------------------------------------
--
                                |       Mean   Std. err.     [95% conf.
interval]
--------------------------------+---------------------------------------------
--
c.epoc_happy_post@student_mentee |
                             No  |       3.45     .09169      3.268475
3.631525
                            Yes  |   3.067901   .1754588      2.720534
3.415268
------------------------------------------------------------------------------
--


.
. foreach var of varlist epoc_happy_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee epoc_happy_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##epoc_happy_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       122
-------------+----------------------------------   F(1, 120)       =      3.81
       Model |    3.069579         1    3.069579   Prob > F        =    0.0533
    Residual |  96.6866255       120  .805721879   R-squared       =    0.0308
-------------+----------------------------------   Adj R-squared   =    0.0227
       Total |  99.7562045       121  .824431442   Root MSE        =    .89762

------------------------------------------------------------------------------
epoc_happy_p~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.3820988   .1957622    -1.95   0.053    -.7696943    .0054967
         _cons |       3.45   .0920939    37.46   0.000     3.267661    3.632339
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(2, 109)       =     41.17
       Model |  39.3634743         2  19.6817371   Prob > F        =    0.0000
    Residual |  52.1047177       109  .478024933   R-squared       =    0.4304
```

```
-------------+----------------------------------   Adj R-squared   =    0.4199
       Total |   91.468192       111  .824037765   Root MSE        =    .69139

------------------------------------------------------------------------------
   epoc_happy_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------------+----------------------------------------------------------------
    student_mentee |  -.2962963   .1850526    -1.60   0.112    -.6630646    .070472
epoc_happy_pre_low |  -1.138007   .1338484    -8.50   0.000     -1.40329   -.8727239
             _cons |   3.905203   .0888724    43.94   0.000     3.729061    4.081345
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       122
-------------+----------------------------------   F(2, 119)       =      1.90
       Model |   3.0814363         2  1.54071815   Prob > F        =    0.1546
    Residual |  96.6747682       119   .81239301   R-squared       =    0.0309
-------------+----------------------------------   Adj R-squared   =    0.0146
       Total |  99.7562045       121  .824431442   Root MSE        =    .90133

------------------------------------------------------------------------------
epoc_happy_p~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.3912545    .210674    -1.86   0.066    -.8084102    .0259011
student_gender |   .0212722   .1760773     0.12   0.904    -.3273784    .3699229
         _cons |   3.442611   .1108716    31.05   0.000     3.223074    3.662147
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       122
-------------+----------------------------------   F(2, 119)       =     11.25
       Model |  15.8594879         2  7.92974396   Prob > F        =    0.0000
    Residual |  83.8967165       119  .705014425   R-squared       =    0.1590
-------------+----------------------------------   Adj R-squared   =    0.1448
       Total |  99.7562045       121  .824431442   Root MSE        =    .83965

------------------------------------------------------------------------------
       epoc_happy_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-----------------------+------------------------------------------------------
        student_mentee |  -.2222957   .1869238    -1.19   0.237    -.5924236    .1478322
student_difficultevent |  -.6654137   .1562273    -4.26   0.000    -.9747594   -.356068
                 _cons |   3.709161    .105468    35.17   0.000     3.500324    3.917998
------------------------------------------------------------------------------
```

```
      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(5, 106)       =     16.95
       Model |   40.642047         5  8.12840939   Prob > F        =    0.0000
    Residual |   50.826145       106  .479491934   R-squared       =    0.4443
-------------+----------------------------------   Adj R-squared   =    0.4181
       Total |   91.468192       111  .824037765   Root MSE        =    .69245

------------------------------------------------------------------------------
------------------
                 epoc_happy_post | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
---------------------------------+--------------------------------------------
------------------
                  student_mentee |
                             Yes |  -.4817434   .2978704    -1.62   0.109
-1.0723    .1088136
                                 |
                epoc_happy_pre_low |
                  Low at baseline |  -1.095777   .1608217    -6.81   0.000
-1.414622   -.7769322
                                 |
student_mentee#epoc_happy_pre_low |
             Yes#Low at baseline |   .3079845   .3905794     0.79   0.432
-.4663772    1.082346
                                 |
           student_difficultevent |   -.198652   .1523553    -1.30   0.195
-.5007112    .1034072
                  student_gender |   .0750305   .1433522     0.52   0.602
-.2091792    .3592401
                           _cons |   3.939617   .1086264    36.27   0.000
3.724255     4.15498
------------------------------------------------------------------------------
------------------

.
.
. ********************
. *** Help Seeking
. ********************
. mdesc helpseeking_post helpseeking2_1_post helpseeking2_2_post
helpseeking2_3_post

    Variable    |     Missing          Total     Percent Missing
----------------+-----------------------------------------------
   help~ng_post |         311            424          73.35
   helps~1_post |         224            424          52.83
   helps~2_post |         225            424          53.07
   helps~3_post |         225            424          53.07
----------------+-----------------------------------------------

.
.
. foreach var of varlist  helpseeking2_1 helpseeking2_2 helpseeking2_3 {
```

```
  2.         tab `var' student_mentee, col
  3.         tab `var'_post student_mentee, col
  4.
.         regress `var'_post student_mentee
  5.         regress `var'_post student_mentee student_difficultevent `var'
  6.         regress `var'_post student_mentee##student_difficultevent `var'
  7.         }

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

    Do you |
 feel able |
  to trust |
adults who |
  can help |   Is this student a
  when you |     Raise mentee?
  need it? |        No        Yes |     Total
-----------+----------------------+----------
     Never |        19          0 |        19
           |      6.88       0.00 |      4.48
-----------+----------------------+----------
    Rarely |        36         13 |        49
           |     13.04       8.78 |     11.56
-----------+----------------------+----------
 Sometimes |       130         71 |       201
           |     47.10      47.97 |     47.41
-----------+----------------------+----------
    Always |        91         64 |       155
           |     32.97      43.24 |     36.56
-----------+----------------------+----------
     Total |       276        148 |       424
           |    100.00     100.00 |    100.00

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

    Do you |
 feel able |
  to trust |
adults who |
  can help |   Is this student a
  when you |     Raise mentee?
  need it? |        No        Yes |     Total
-----------+----------------------+----------
     Never |         2          1 |         3
```

```
           |      2.02       0.99 |      1.50
-----------+----------------------+----------
    Rarely |        18          3 |        21
           |     18.18       2.97 |     10.50
-----------+----------------------+----------
 Sometimes |        39         12 |        51
           |     39.39      11.88 |     25.50
-----------+----------------------+----------
    Always |        40         85 |       125
           |     40.40      84.16 |     62.50
-----------+----------------------+----------
     Total |        99        101 |       200
           |    100.00     100.00 |    100.00
```

```
      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(1, 198)       =     40.35
       Model |  18.6190639         1  18.6190639   Prob > F        =    0.0000
    Residual |  91.3609361       198  .461418869   R-squared       =    0.1693
-------------+----------------------------------   Adj R-squared   =    0.1651
       Total |      109.98       199  .552663317   Root MSE        =    .67928

------------------------------------------------------------------------------
helpsee~1_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |    .610261   .0960692     6.35   0.000     .4208108    .7997113
         _cons |   3.181818     .06827    46.61   0.000     3.047188    3.316448
------------------------------------------------------------------------------
```

```
      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(3, 196)       =     21.98
       Model |  27.6888266         3  9.22960887   Prob > F        =    0.0000
    Residual |  82.2911734       196  .419852925   R-squared       =    0.2518
-------------+----------------------------------   Adj R-squared   =    0.2403
       Total |      109.98       199  .552663317   Root MSE        =    .64796

------------------------------------------------------------------------------
--------
   helpseeking2_1_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |   .5907011   .0948741     6.23   0.000      .403596
.7778062
student_difficultevent |  -.2539358   .0968518    -2.62   0.009    -.4449413
-.0629303
        helpseeking2_1 |   .1996012   .0672301     2.97   0.003     .0670139
.3321885
                 _cons |   2.653726   .2318631    11.45   0.000     2.196459
3.110993
------------------------------------------------------------------------------
--------
```

```
      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(4, 195)       =     18.35
```

```
       Model |  30.0820787         4  7.52051967   Prob > F        =    0.0000
    Residual |  79.8979213       195   .40973293   R-squared       =    0.2735
-------------+----------------------------------   Adj R-squared   =    0.2586
       Total |      109.98       199  .552663317   Root MSE        =     .6401

------------------------------------------------------------------------------
-----------------------
                helpseeking2_1_post | Coefficient  Std. err.      t    P>|t|
  [95% conf. interval]
------------------------------------+-----------------------------------------
-----------------------
                      student_mentee |
                                 Yes |   .4005124     .12238     3.27   0.001
  .1591541    .6418707
                                     |
                     student_difficultevent |
                                 Yes |  -.4934494   .1377518    -3.58   0.000
 -.7651241   -.2217746
                                     |
student_mentee#student_difficultevent |
                           Yes#Yes |   .4472403   .1850534     2.42   0.017
  .0822772    .8122035
                                     |
                      helpseeking2_1 |    .183679   .0667409     2.75   0.006
  .0520523    .3153056
                               _cons |   2.792938   .2361833    11.83   0.000
  2.327136    3.258739
------------------------------------------------------------------------------
-----------------------
```

Key
frequency
column percentage

Do you feel able to ask for help from others when you need it?	Is this student a Raise mentee? No	Yes	Total
Never	20	0	20
	7.25	0.00	4.72
Rarely	46	16	62
	16.67	10.81	14.62
Sometimes	138	78	216
	50.00	52.70	50.94

```
    Always |        72         54 |       126
           |     26.09      36.49 |     29.72
-----------+----------------------+----------
     Total |       276        148 |       424
           |    100.00     100.00 |    100.00
```

```
+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+
```

```
    Do you |
 feel able |
to ask for |
 help from |
    others |   Is this student a
  when you |     Raise mentee?
  need it? |        No        Yes |     Total
-----------+----------------------+----------
     Never |         3          1 |         4
           |      3.03       1.00 |      2.01
-----------+----------------------+----------
    Rarely |        13          5 |        18
           |     13.13       5.00 |      9.05
-----------+----------------------+----------
 Sometimes |        43          8 |        51
           |     43.43       8.00 |     25.63
-----------+----------------------+----------
    Always |        40         86 |       126
           |     40.40      86.00 |     63.32
-----------+----------------------+----------
     Total |        99        100 |       199
           |    100.00     100.00 |    100.00
```

```
      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(1, 197)       =     35.14
       Model |  16.6132892         1  16.6132892   Prob > F        =    0.0000
    Residual |  93.1354545       197  .472768805   R-squared       =    0.1514
-------------+----------------------------------   Adj R-squared   =    0.1471
       Total |  109.748744       198  .554286584   Root MSE        =    .68758
```

```
------------------------------------------------------------------------------
helpsee~2_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .5778788    .097484     5.93   0.000     .3856326    .7701249
         _cons |   3.212121   .0691046    46.48   0.000     3.075842    3.348401
------------------------------------------------------------------------------
```

```
      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(3, 195)       =     20.14
       Model |  25.9637965         3  8.65459884   Prob > F        =    0.0000
    Residual |  83.7849472       195  .429666396   R-squared       =    0.2366
```

```
-------------+----------------------------------   Adj R-squared   =    0.2248
       Total |  109.748744       198  .554286584   Root MSE        =    .65549

------------------------------------------------------------------------------
--------
   helpseeking2_2_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |   .5451707   .0966244     5.64   0.000     .3546076
.7357338
student_difficultevent |  -.2498812   .0964879    -2.59   0.010    -.4401751
-.0595873
        helpseeking2_2 |   .2082887   .0637128     3.27   0.001     .0826342
.3339433
                 _cons |   2.691165   .2091018    12.87   0.000     2.278773
3.103556
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(4, 194)       =     15.84
       Model |   27.021535         4  6.75538375   Prob > F        =    0.0000
    Residual |  82.7272087       194  .426428911   R-squared       =    0.2462
-------------+----------------------------------   Adj R-squared   =    0.2307
       Total |  109.748744       198  .554286584   Root MSE        =    .65302

------------------------------------------------------------------------------
-----------------------
                  helpseeking2_2_post | Coefficient  Std. err.      t    P>|t|
  [95% conf. interval]
--------------------------------------+---------------------------------------
-----------------------
                       student_mentee |
                                  Yes |   .4186864   .1253621     3.34   0.001
  .1714389     .665934
                                      |
                  student_difficultevent |
                                  Yes |  -.4096374   .1397463    -2.93   0.004
 -.6852545   -.1340204
                                      |
student_mentee#student_difficultevent |
                             Yes#Yes  |   .2995161   .1901754     1.57   0.117
 -.0755607    .6745928
                                      |
                           helpseeking2_2 |   .1942479   .0640953     3.03   0.003
  .0678348     .320661
                                 _cons |   2.792285   .2179827    12.81   0.000
  2.362365    3.222205
------------------------------------------------------------------------------
-----------------------

+-------------------+
| Key               |
```

|---|
| frequency |
| column percentage |

Do you feel like you know where to get help when you need it?	Is this student a Raise mentee? No	Yes	Total
Never	13	0	13
	4.71	0.00	3.07
Rarely	38	12	50
	13.77	8.11	11.79
Sometimes	112	68	180
	40.58	45.95	42.45
Always	113	68	181
	40.94	45.95	42.69
Total	276	148	424
	100.00	100.00	100.00

Key
frequency
column percentage

Do you feel like you know where to get help when you need it?	Is this student a Raise mentee? No	Yes	Total
Never	2	1	3
	2.04	0.99	1.51
Rarely	9	4	13
	9.18	3.96	6.53
Sometimes	44	8	52
	44.90	7.92	26.13
Always	43	88	131
	43.88	87.13	65.83

```
-----------+----------------------+----------
     Total |        98        101 |       199
           |    100.00     100.00 |    100.00

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(1, 197)       =     31.24
       Model |   12.722755         1   12.722755   Prob > F        =    0.0000
    Residual |  80.2420691       197  .407320148   R-squared       =    0.1369
-------------+----------------------------------   Adj R-squared   =    0.1325
       Total |  92.9648241       198  .469519314   Root MSE        =    .63822

------------------------------------------------------------------------------
helpsee~3_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .5057587   .0904942     5.59   0.000      .327297    .6842205
         _cons |   3.306122   .0644696    51.28   0.000     3.178983    3.433262
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(3, 195)       =     18.59
       Model |  20.6767251         3  6.89224171   Prob > F        =    0.0000
    Residual |   72.288099       195    .3707082   R-squared       =    0.2224
-------------+----------------------------------   Adj R-squared   =    0.2105
       Total |  92.9648241       198  .469519314   Root MSE        =    .60886

------------------------------------------------------------------------------
--------
   helpseeking2_3_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |   .4750143   .0883743     5.38   0.000     .3007222
.6493065
student_difficultevent |  -.1487077   .0896617    -1.66   0.099    -.3255388
.0281234
        helpseeking2_3 |   .2333152   .0602013     3.88   0.000     .1145859
.3520445
                 _cons |   2.624229   .2095806    12.52   0.000     2.210894
3.037565
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(4, 194)       =     15.06
       Model |  22.0229331         4  5.50573327   Prob > F        =    0.0000
    Residual |   70.941891       194  .365679851   R-squared       =    0.2369
-------------+----------------------------------   Adj R-squared   =    0.2212
       Total |  92.9648241       198  .469519314   Root MSE        =    .60471

------------------------------------------------------------------------------
----------------------
                  helpseeking2_3_post | Coefficient  Std. err.      t    P>|t|
  [95% conf. interval]
--------------------------------------+---------------------------------------
```

```
-----------------------
                      student_mentee |
                                 Yes |   .3290774   .1161434     2.83   0.005
  .1000115    .5581433
                                     |
                       student_difficultevent |
                                 Yes |  -.3243893   .1277262    -2.54   0.012
 -.5762996   -.0724791
                                     |
student_mentee#student_difficultevent |
                             Yes#Yes |    .334407   .1742889     1.92   0.056
 -.0093374    .6781514
                                     |
                      helpseeking2_3 |   .2307782   .0598063     3.86   0.000
  .1128243    .3487322
                               _cons |   2.698583   .2117309    12.75   0.000
  2.280993    3.116173
------------------------------------------------------------------------------
-----------------------

.
. foreach var of varlist helpseeking2_1_change helpseeking2_2_change
helpseeking2_3_change {
  2.         regress `var' student_mentee
  3.         regress `var' student_mentee SSE_productivity_pre_low
  4.         regress `var' student_mentee student_gender
  5.         regress `var' student_mentee student_difficultevent
  6.         regress `var' student_mentee##SSE_productivity_pre_low
student_difficultevent student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(1, 198)       =      8.31
       Model |  5.96220072         1  5.96220072   Prob > F        =    0.0044
    Residual |  141.992799       198   .71713535   R-squared       =    0.0403
-------------+----------------------------------   Adj R-squared   =    0.0355
       Total |     147.955       199  .743492462   Root MSE        =    .84684

------------------------------------------------------------------------------
helps~1_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .3453345    .119767     2.88   0.004     .1091519    .5815172
         _cons |   .0606061   .0851105     0.71   0.477    -.1072333    .2284454
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       126
-------------+----------------------------------   F(2, 123)       =      0.16
       Model |  .251786718         2  .125893359   Prob > F        =    0.8553
    Residual |  98.9545625       123  .804508638   R-squared       =    0.0025
-------------+----------------------------------   Adj R-squared   =   -0.0137
       Total |  99.2063492       125  .793650794   Root MSE        =    .89694

------------------------------------------------------------------------------
----------
```

```
   helpseeking2_1_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------------------+------------------------------------------------------
----------
          student_mentee |   .0848791   .1949023     0.44   0.664    -.3009181
 .4706764
SSE_productivity_pre_low |   .0564924   .1696494     0.33   0.740    -.2793181
 .3923029
                   _cons |   .0423459   .1055147     0.40   0.689     -.166514
 .2512058
------------------------------------------------------------------------------
----------

      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(2, 197)       =      4.14
       Model |  5.96225338         2  2.98112669   Prob > F        =    0.0174
    Residual |  141.992747       197  .720775364   R-squared       =    0.0403
-------------+----------------------------------   Adj R-squared   =    0.0306
       Total |     147.955       199  .743492462   Root MSE        =    .84898

------------------------------------------------------------------------------
helps~1_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .3450677   .1240621     2.78   0.006     .1004074     .589728
student_gender |   .0010638   .1244548     0.01   0.993    -.2443709    .2464986
         _cons |   .0602515   .0948765     0.64   0.526    -.1268526    .2473555
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(2, 197)       =      4.28
       Model |   6.1549054         2   3.0774527   Prob > F        =    0.0152
    Residual |  141.800095       197  .719797435   R-squared       =    0.0416
-------------+----------------------------------   Adj R-squared   =    0.0319
       Total |     147.955       199  .743492462   Root MSE        =    .84841

------------------------------------------------------------------------------
--------
 helpseeking2_1_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |   .3370567    .121051     2.78   0.006     .0983347
.5757788
student_difficultevent |   .0630866    .121926     0.52   0.605     -.177361
.3035342
                 _cons |   .0370282   .0966807     0.38   0.702    -.1536337
.2276901
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       126
-------------+----------------------------------   F(5, 120)       =      0.18
       Model |  .752926452         5   .15058529   Prob > F        =    0.9683
    Residual |  98.4534228       120   .82044519   R-squared       =    0.0076
```

```
-------------+----------------------------------   Adj R-squared   =   -0.0338
       Total |  99.2063492       125  .793650794   Root MSE        =    .90578

------------------------------------------------------------------------------
-------------------------
                helpseeking2_1_change | Coefficient  Std. err.      t    P>|t|
    [95% conf. interval]
--------------------------------------+---------------------------------------
-------------------------
                        student_mentee |
                                  Yes  |  -.0186161    .259239    -0.07   0.943
   -.5318914    .4946591
                                       |
                    SSE_productivity_pre_low |
                           Low at baseline  |   .0155166   .2027101     0.08   0.939
   -.3858353    .4168684
                                       |
student_mentee#SSE_productivity_pre_low |
                     Yes#Low at baseline  |   .2309647   .4117865     0.56   0.576
   -.5843439    1.046273
                                       |
                     student_difficultevent |  -.0430721   .1747851    -0.25   0.806
   -.3891345    .3029902
                        student_gender |   .0834465   .1731204     0.48   0.631
   -.2593198    .4262128
                                 _cons |   .0438728    .131052     0.33   0.738
   -.2156012    .3033467
------------------------------------------------------------------------------
-------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(1, 197)       =      7.32
       Model |  5.06536775         1  5.06536775   Prob > F        =    0.0074
    Residual |  136.371818       197  .692242732   R-squared       =    0.0358
-------------+----------------------------------   Adj R-squared   =    0.0309
       Total |  141.437186       198  .714329222   Root MSE        =    .83201

------------------------------------------------------------------------------
helps~2_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .3190909   .1179609     2.71   0.007     .0864627    .5517192
         _cons |   .0909091   .0836203     1.09   0.278    -.0739967    .2558149
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       126
-------------+----------------------------------   F(2, 123)       =      0.04
       Model |  .071227817         2  .035613908   Prob > F        =    0.9571
    Residual |  99.9684547       123  .812751664   R-squared       =    0.0007
-------------+----------------------------------   Adj R-squared   =   -0.0155
       Total |  100.039683       125   .80031746   Root MSE        =    .90153

------------------------------------------------------------------------------
----------
   helpseeking2_2_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
```

```
interval]
-------------------------+----------------------------------------------------------
----------
          student_mentee |  -.0191119   .1958983    -0.10   0.922    -.4068805
 .3686568
SSE_productivity_pre_low |   .0483016   .1705163     0.28   0.777    -.2892249
 .3858281
                   _cons |   .0752964   .1060539     0.71   0.479    -.1346307
 .2852236
------------------------------------------------------------------------------
----------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(2, 196)       =      4.49
       Model |  6.18979398         2  3.09489699   Prob > F        =    0.0125
    Residual |  135.247392       196  .690037714   R-squared       =    0.0438
-------------+----------------------------------   Adj R-squared   =    0.0340
       Total |  141.437186       198  .714329222   Root MSE        =    .83069

------------------------------------------------------------------------------
helps~2_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .2806756   .1215569     2.31   0.022     .0409482     .520403
student_gender |   .1557377   .1220014     1.28   0.203    -.0848662    .3963416
         _cons |   .0389965   .0928649     0.42   0.675    -.1441462    .2221393
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(2, 196)       =      3.86
       Model |  5.35368359         2  2.67684179   Prob > F        =    0.0228
    Residual |  136.083502       196  .694303583   R-squared       =    0.0379
-------------+----------------------------------   Adj R-squared   =    0.0280
       Total |  141.437186       198  .714329222   Root MSE        =    .83325

------------------------------------------------------------------------------
--------
 helpseeking2_2_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
        student_mentee |    .308548   .1192639     2.59   0.010     .0733428
.5437532
student_difficultevent |   .0773719    .120067     0.64   0.520    -.1594172
.314161
                 _cons |   .0619923   .0950095     0.65   0.515    -.1253798
.2493644
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       126
-------------+----------------------------------   F(5, 120)       =      0.61
       Model |   2.4648986         5   .49297972   Prob > F        =    0.6952
    Residual |  97.5747839       120    .8131232   R-squared       =    0.0246
-------------+----------------------------------   Adj R-squared   =   -0.0160
```

```
       Total |  100.039683       125   .80031746   Root MSE        =    .90173

------------------------------------------------------------------------------
-------------------------
                  helpseeking2_2_change | Coefficient  Std. err.      t    P>|t|
    [95% conf. interval]
----------------------------------------+-------------------------------------
-------------------------
                         student_mentee |
                                    Yes |  -.2622028   .2580797    -1.02   0.312
   -.7731826    .2487769
                                        |
                    SSE_productivity_pre_low |
                           Low at baseline |  -.0552733   .2018035    -0.27   0.785
   -.4548302    .3442836
                                        |
student_mentee#SSE_productivity_pre_low |
                         Yes#Low at baseline |   .4121724   .4099449     1.01   0.317
   -.3994901    1.223835
                                        |
                       student_difficultevent |   .0296843   .1740034     0.17   0.865
   -.3148304     .374199
                         student_gender |   .2368464   .1723462     1.37   0.172
    -.104387    .5780798
                                  _cons |   .0187323    .130466     0.14   0.886
   -.2395812    .2770458
------------------------------------------------------------------------------
-------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(1, 197)       =      3.82
       Model |  2.67402125         1  2.67402125   Prob > F        =    0.0522
    Residual |  138.009396       197  .700555309   R-squared       =    0.0190
-------------+----------------------------------   Adj R-squared   =    0.0140
       Total |  140.683417       198  .710522309   Root MSE        =    .83699

------------------------------------------------------------------------------
helps~3_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |    .231865    .118679     1.95   0.052    -.0021794    .4659095
         _cons |   .1938776   .0845489     2.29   0.023     .0271404    .3606147
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       125
-------------+----------------------------------   F(2, 122)       =      0.14
       Model |  .236622767         2  .118311384   Prob > F        =    0.8664
    Residual |  100.531377       122  .824027682   R-squared       =    0.0023
-------------+----------------------------------   Adj R-squared   =   -0.0140
       Total |     100.768       124  .812645161   Root MSE        =    .90776

------------------------------------------------------------------------------
----------
   helpseeking2_3_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
```

```
-------------------------+------------------------------------------------------------
----------
          student_mentee |   -.049373   .1974458    -0.25   0.803    -.4402368
 .3414908
SSE_productivity_pre_low |   .0831117   .1720201     0.48   0.630    -.2574193
 .4236427
                   _cons |    .166739   .1075337     1.55   0.124    -.0461346
 .3796127
-------------------------------------------------------------------------------
----------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(2, 196)       =      1.93
       Model |  2.72141147         2  1.36070573   Prob > F        =    0.1474
    Residual |  137.962006       196  .703887784   R-squared       =    0.0193
-------------+----------------------------------   Adj R-squared   =    0.0093
       Total |  140.683417       198  .710522309   Root MSE        =    .83898

------------------------------------------------------------------------------
helps~3_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .2239597   .1228004     1.82   0.070    -.0182202    .4661395
student_gender |   .0319507   .1231368     0.26   0.796    -.2108925    .2747939
         _cons |   .1831186   .0943495     1.94   0.054    -.0029519    .3691892
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(2, 196)       =      2.90
       Model |  4.03760882         2  2.01880441   Prob > F        =    0.0576
    Residual |  136.645808       196  .697172491   R-squared       =    0.0287
-------------+----------------------------------   Adj R-squared   =    0.0188
       Total |  140.683417       198  .710522309   Root MSE        =    .83497

------------------------------------------------------------------------------
--------
 helpseeking2_3_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
----------------------+-------------------------------------------------------
--------
        student_mentee |   .2104542   .1193779     1.76   0.079    -.0249759
.4458843
student_difficultevent |   .1680607   .1201697     1.40   0.164    -.0689308
.4050523
                 _cons |    .130426    .095773     1.36   0.175    -.0584517
.3193038
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       125
-------------+----------------------------------   F(5, 119)       =      0.28
       Model |   1.1672737         5   .23345474   Prob > F        =    0.9239
    Residual |  99.6007263       119  .836980893   R-squared       =    0.0116
-------------+----------------------------------   Adj R-squared   =   -0.0299
       Total |     100.768       124  .812645161   Root MSE        =    .91487
```

```
------------------------------------------------------------------------------
-------------------------
                  helpseeking2_3_change | Coefficient  Std. err.      t    P>|t|
    [95% conf. interval]
---------------------------------------+--------------------------------------
-------------------------
                          student_mentee |
                                     Yes |  -.1350635   .2619409    -0.52   0.607
   -.6537326    .3836056
                                         |
                     SSE_productivity_pre_low |
                             Low at baseline |    .042139   .2050369     0.21   0.838
   -.3638546    .4481326
                                         |
student_mentee#SSE_productivity_pre_low |
                              Yes#Low at baseline |   .0270677   .4160839     0.07   0.948
   -.7968199    .8509554
                                         |
                           student_difficultevent |   .1242421   .1767273     0.70   0.483
   -.2256957    .4741799
                                  student_gender |   .1257406   .1751547     0.72   0.474
   -.2210832    .4725643
                                           _cons |   .0908689   .1337737     0.68   0.498
   -.1740163    .3557542
------------------------------------------------------------------------------
-------------------------

. 
. 
. ********************
. **** SSE
. ********************
. 
. mdesc SSE_productivity_post SSE_belong_post SSE_aspiration_post SSE_total_post

    Variable    |     Missing          Total     Percent Missing
----------------+-----------------------------------------------
   SSE_produc~t |         296            424          69.81
   SSE_belong~t |         296            424          69.81
   SSE_aspira~t |         296            424          69.81
   SSE_total_~t |         296            424          69.81
----------------+-----------------------------------------------

. 
. ** Productivity
. mean SSE_productivity_pre, over(student_mentee)

Mean estimation                                                 Number of
obs = 313

------------------------------------------------------------------------------
-------
                                       |       Mean   Std. err.     [95% conf.
```

```
interval]
-------------------------------------+----------------------------------------
-------
c.SSE_productivity_pre@student_mentee |
                                  No  |    6.53688   .1120223      6.316465
6.757294
                                 Yes  |   6.055985   .2706841      5.523387
6.588582
------------------------------------------------------------------------------
-------

. mean SSE_productivity_post, over(student_mentee)

Mean estimation                                                  Number of
obs = 128

------------------------------------------------------------------------------
--------
                                     |       Mean   Std. err.     [95% conf.
interval]
-------------------------------------+----------------------------------------
--------
c.SSE_productivity_post@student_mentee |
                                  No  |   6.691757   .1783962      6.338743
7.044771
                                 Yes  |   5.796857   .4193625      4.967015
 6.6267
------------------------------------------------------------------------------
--------

.
. foreach var of varlist SSE_productivity_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee SSE_productivity_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##SSE_productivity_pre_low
student_difficultevent student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(1, 126)       =      4.83
       Model |  17.0617429         1  17.0617429   Prob > F        =    0.0298
    Residual |  444.891838       126  3.53088761   R-squared       =    0.0369
-------------+----------------------------------   Adj R-squared   =    0.0293
       Total |  461.953581       127  3.63742977   Root MSE        =    1.8791

------------------------------------------------------------------------------
SSE_producti~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.8948992   .4071031    -2.20   0.030    -1.700544   -.0892542
         _cons |   6.691757    .186974    35.79   0.000     6.321741    7.061773
------------------------------------------------------------------------------
```

```
      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(2, 115)       =     40.29
       Model |  170.630426         2   85.315213   Prob > F        =    0.0000
    Residual |  243.537823       115   2.1177202   R-squared       =    0.4120
-------------+----------------------------------   Adj R-squared   =    0.4018
       Total |  414.168249       117  3.53989956   Root MSE        =    1.4552

------------------------------------------------------------------------------
   SSE_productivity_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------------------+----------------------------------------------------
          student_mentee |  -1.610943   .3815525    -4.22   0.000    -2.366725
-.8551608
SSE_productivity_pre_low |  -2.308287   .2887993    -7.99   0.000    -2.880343
-1.736231
                   _cons |   7.423095    .171289    43.34   0.000     7.083805
 7.762386
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      3.10
       Model |  21.8318432         2  10.9159216   Prob > F        =    0.0485
    Residual |  440.121738       125   3.5209739   R-squared       =    0.0473
-------------+----------------------------------   Adj R-squared   =    0.0320
       Total |  461.953581       127  3.63742977   Root MSE        =    1.8764

------------------------------------------------------------------------------
SSE_producti~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   -1.08489   .4380772    -2.48   0.015    -1.951899   -.2178809
student_gender |   .4212238   .3618933     1.16   0.247    -.2950079    1.137455
         _cons |   6.554129   .2210031    29.66   0.000     6.116736    6.991522
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      5.65
       Model |  38.3081842         2  19.1540921   Prob > F        =    0.0045
    Residual |  423.645397       125  3.38916318   R-squared       =    0.0829
-------------+----------------------------------   Adj R-squared   =    0.0683
       Total |  461.953581       127  3.63742977   Root MSE        =     1.841

------------------------------------------------------------------------------
 SSE_productivity_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
        student_mentee |  -.6723641   .4086321    -1.65   0.102    -1.481098
.1363696
student_difficultevent |  -.8451994   .3375688    -2.50   0.014     -1.51329
-.1771088
```

```
                _cons |   7.001384   .2210177    31.68   0.000     6.563963
7.438806
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(5, 112)       =     16.74
       Model |  177.155125         5  35.4310249   Prob > F        =    0.0000
    Residual |  237.013124       112  2.11618861   R-squared       =    0.4277
-------------+----------------------------------   Adj R-squared   =    0.4022
       Total |  414.168249       117  3.53989956   Root MSE        =    1.4547

------------------------------------------------------------------------------
-------------------------
                 SSE_productivity_post | Coefficient  Std. err.      t    P>|t|
    [95% conf. interval]
---------------------------------------+--------------------------------------
-------------------------
                        student_mentee |
                                   Yes |  -1.881283   .4775099    -3.94   0.000
   -2.827408   -.9351584
                                       |
                    SSE_productivity_pre_low |
                            Low at baseline |  -2.311388   .3261209    -7.09   0.000
   -2.957555   -1.665221
                                       |
student_mentee#SSE_productivity_pre_low |
                         Yes#Low at baseline |   .5834256   .8364192     0.70   0.487
   -1.073832    2.240683
                                       |
                       student_difficultevent |  -.2470956   .2963805    -0.83   0.406
   -.8343357    .3401444
                        student_gender |   .4431999   .2910501     1.52   0.131
   -.1334785    1.019878
                                 _cons |    7.36979   .2072079    35.57   0.000
    6.959234    7.780346
------------------------------------------------------------------------------
-------------------------


.
.
. ** Belong
. mean SSE_belong_pre, over(student_mentee)

Mean estimation                                          Number of obs =
313

------------------------------------------------------------------------------
-
                                |       Mean   Std. err.     [95% conf.
interval]
--------------------------------+---------------------------------------------
-
c.SSE_belong_pre@student_mentee |
```

```
                            No  |   5.936775   .1258086      5.689235
6.184316
                           Yes  |   5.445946   .3350216      4.786759
6.105133
------------------------------------------------------------------------------
-

. mean SSE_belong_post, over(student_mentee)

Mean estimation                                           Number of obs =
128

------------------------------------------------------------------------------
--
                                |       Mean   Std. err.     [95% conf.
interval]
--------------------------------+---------------------------------------------
--
c.SSE_belong_post@student_mentee |
                             No  |   6.305281   .2020667      5.905427
6.705134
                            Yes  |   5.322222   .4678286      4.396474
6.247971
------------------------------------------------------------------------------
--


. 
. foreach var of varlist SSE_belong_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee SSE_belong_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##SSE_belong_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(1, 126)       =      4.58
       Model |   20.588925         1   20.588925   Prob > F        =    0.0342
    Residual |   566.03496       126  4.49234095   R-squared       =    0.0351
-------------+----------------------------------   Adj R-squared   =    0.0274
       Total |  586.623885       127  4.61908571   Root MSE        =    2.1195

------------------------------------------------------------------------------
SSE_belong_p~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.9830582   .4591967    -2.14   0.034    -1.891795   -.0743215
         _cons |   6.305281   .2108996    29.90   0.000     5.887916    6.722645
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(2, 115)       =     47.38
       Model |  241.148098         2  120.574049   Prob > F        =    0.0000
    Residual |  292.636758       115  2.54466746   R-squared       =    0.4518
```

```
-------------+----------------------------------   Adj R-squared   =    0.4422
       Total |  533.784857       117  4.56226373   Root MSE        =    1.5952

------------------------------------------------------------------------------
   SSE_belong_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------------+----------------------------------------------------------
    student_mentee |  -1.910916   .4187757    -4.56   0.000     -2.74043
-1.081402
SSE_belong_pre_low |   -2.71164   .3071391    -8.83   0.000    -3.320023
-2.103256
             _cons |   7.298653   .1945627    37.51   0.000     6.913262
7.684045
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      2.32
       Model |  20.9680088         2  10.4840044   Prob > F        =    0.1028
    Residual |  565.655876       125  4.52524701   R-squared       =    0.0357
-------------+----------------------------------   Adj R-squared   =    0.0203
       Total |  586.623885       127  4.61908571   Root MSE        =    2.1273

------------------------------------------------------------------------------
SSE_belong_p~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -1.036618   .4966385    -2.09   0.039    -2.019527   -.0537084
student_gender |   .1187454   .4102705     0.29   0.773    -.6932308    .9307216
         _cons |   6.266483   .2505464    25.01   0.000      5.77062    6.762345
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      5.94
       Model |  50.9297192         2  25.4648596   Prob > F        =    0.0034
    Residual |  535.694166       125  4.28555332   R-squared       =    0.0868
-------------+----------------------------------   Adj R-squared   =    0.0722
       Total |  586.623885       127  4.61908571   Root MSE        =    2.0702

------------------------------------------------------------------------------
       SSE_belong_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
        student_mentee |  -.7171273   .4595044    -1.56   0.121    -1.626544
.192289
student_difficultevent |  -1.010019   .3795942    -2.66   0.009    -1.761283
-.258755
                 _cons |   6.675287   .2485331    26.86   0.000      6.18341
7.167165
------------------------------------------------------------------------------
```

```
      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(5, 112)       =     19.56
       Model |  248.801516         5  49.7603033   Prob > F        =    0.0000
    Residual |   284.98334       112  2.54449411   R-squared       =    0.4661
-------------+----------------------------------   Adj R-squared   =    0.4423
       Total |  533.784857       117  4.56226373   Root MSE        =    1.5951

------------------------------------------------------------------------------
                   SSE_belong_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-----------------------------------+------------------------------------------------------------------
                    student_mentee |
                               Yes |  -2.039167   .5180323    -3.94   0.000    -3.065582   -1.012753
                                   |
                  SSE_belong_pre_low |
                    Low at baseline |  -2.667863   .3447902    -7.74   0.000    -3.351021   -1.984706
                                   |
student_mentee#SSE_belong_pre_low |
              Yes#Low at baseline |   .2511359    .920015     0.27   0.785    -1.571756    2.074028
                                   |
            student_difficultevent |  -.3767166   .3235989    -1.16   0.247    -1.017886    .2644531
                  student_gender |   .4307053   .3216504     1.34   0.183    -.2066037    1.068014
                           _cons |   7.279896   .2325926    31.30   0.000     6.819044    7.740749
------------------------------------------------------------------------------

.
.
. ** Aspiration
. mean SSE_aspiration_pre, over(student_mentee)

Mean estimation                                           Number of obs
= 313

------------------------------------------------------------------------------
-----
                                    |       Mean   Std. err.     [95% conf.
interval]
------------------------------------+-----------------------------------------
-----
c.SSE_aspiration_pre@student_mentee |
                                 No |   8.203804   .1155984      7.976353
8.431255
                                Yes |   7.439189   .3112634      6.826748
8.05163
```

```
------------------------------------------------------------------------------
-----

. mean SSE_aspiration_post, over(student_mentee)

Mean estimation                                                 Number of obs
= 128

------------------------------------------------------------------------------
------
                                    |       Mean   Std. err.     [95% conf.
interval]
------------------------------------+-----------------------------------------
------
c.SSE_aspiration_post@student_mentee |
                                 No |   7.079208   .2184535      6.646928
7.511488
                                Yes |   7.194444   .4462437      6.311409
8.07748
------------------------------------------------------------------------------
------

.
. foreach var of varlist SSE_aspiration_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee SSE_aspiration_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##SSE_aspiration_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(1, 126)       =      0.06
       Model |  .282914668         1  .282914668   Prob > F        =    0.8112
    Residual |  621.783003       126  4.93478574   R-squared       =    0.0005
-------------+----------------------------------   Adj R-squared   =   -0.0075
       Total |  622.065918       127  4.89815683   Root MSE        =    2.2214

------------------------------------------------------------------------------
SSE_aspirati~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |   .1152365   .4812786     0.24   0.811    -.8371997    1.067673
         _cons |   7.079208   .2210413    32.03   0.000     6.641774    7.516642
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(2, 115)       =     21.50
       Model |  154.600152         2  77.3000762   Prob > F        =    0.0000
    Residual |  413.399848       115  3.59478128   R-squared       =    0.2722
-------------+----------------------------------   Adj R-squared   =    0.2595
       Total |         568       117  4.85470085   Root MSE        =     1.896

------------------------------------------------------------------------------
```

```
--------
   SSE_aspiration_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
        student_mentee |  -.1294387    .501277    -0.26   0.797    -1.122372
.8634945
SSE_aspiration_pre_low |  -2.559411   .3959485    -6.46   0.000    -3.343708
-1.775113
                 _cons |   7.712725   .2125965    36.28   0.000     7.291613
8.133838
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      3.66
       Model |  34.4386699         2   17.219335   Prob > F        =    0.0285
    Residual |  587.627248       125  4.70101798   R-squared       =    0.0554
-------------+----------------------------------   Adj R-squared   =    0.0402
       Total |  622.065918       127  4.89815683   Root MSE        =    2.1682

------------------------------------------------------------------------------
SSE_aspirati~t | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.3931582    .506192    -0.78   0.439    -1.394975    .6086585
student_gender |   1.127148   .4181625     2.70   0.008     .2995528    1.954744
         _cons |   6.710932   .2553659    26.28   0.000     6.205531    7.216333
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      0.90
       Model |  8.87552823         2  4.43776412   Prob > F        =    0.4073
    Residual |   613.19039       125  4.90552312   R-squared       =    0.0143
-------------+----------------------------------   Adj R-squared   =   -0.0015
       Total |  622.065918       127  4.89815683   Root MSE        =    2.2148

------------------------------------------------------------------------------
--------
   SSE_aspiration_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
        student_mentee |   .2567566   .4916193     0.52   0.602     -.716219
1.229732
student_difficultevent |  -.5375003   .4061241    -1.32   0.188     -1.34127
.2662697
                 _cons |   7.276114   .2659031    27.36   0.000     6.749859
7.802369
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(5, 112)       =     10.48
       Model |  181.049048         5  36.2098096   Prob > F        =    0.0000
```

```
    Residual |  386.950952       112  3.45491921   R-squared       =    0.3187
-------------+----------------------------------   Adj R-squared   =    0.2883
       Total |         568       117  4.85470085   Root MSE        =    1.8587

------------------------------------------------------------------------------
----------------------
                  SSE_aspiration_post | Coefficient  Std. err.      t    P>|t|
  [95% conf. interval]
--------------------------------------+---------------------------------------
----------------------
                        student_mentee |
                                   Yes  |  -.5894792   .6373407    -0.92   0.357
 -1.852288    .6733296
                                        |
                     SSE_aspiration_pre_low |
                           Low at baseline  |  -2.479344   .4416816    -5.61   0.000
  -3.35448   -1.604209
                                        |
student_mentee#SSE_aspiration_pre_low |
                         Yes#Low at baseline  |    .389738   1.025513     0.38   0.705
 -1.642184     2.42166
                                        |
                     student_difficultevent |  -.3144646   .3672627    -0.86   0.394
 -1.042149    .4132194
                        student_gender |   .9882305   .3784903     2.61   0.010
  .2383005    1.738161
                                 _cons |    7.48522   .2692129    27.80   0.000
  6.951809     8.01863
------------------------------------------------------------------------------
----------------------

.
.
. ** Total
. mean SSE_total_pre, over(student_mentee)

Mean estimation                                           Number of obs = 313

------------------------------------------------------------------------------
                             |       Mean   Std. err.     [95% conf. interval]
-----------------------------+------------------------------------------------
c.SSE_total_pre@student_mentee |
                          No  |   6.892486   .1053875      6.685126    7.099846
                         Yes  |   6.313707   .2616026      5.798978    6.828435
------------------------------------------------------------------------------

. mean SSE_total_post, over(student_mentee)

Mean estimation                                            Number of obs =
128

------------------------------------------------------------------------------
-
                               |       Mean   Std. err.     [95% conf.
```

```
interval]
-------------------------------+----------------------------------------------
-
c.SSE_total_post@student_mentee |
                             No  |   6.692082   .1809636      6.333987
7.050176
                            Yes  |   6.104508   .4119097      5.289413
6.919603
------------------------------------------------------------------------------
-


.
. foreach var of varlist SSE_total_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee SSE_total_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##SSE_total_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(1, 126)       =      2.06
       Model |  7.35529047         1  7.35529047   Prob > F        =    0.1537
    Residual |  449.861236       126  3.57032727   R-squared       =    0.0161
-------------+----------------------------------   Adj R-squared   =    0.0083
       Total |  457.216527       127  3.60013013   Root MSE        =    1.8895

------------------------------------------------------------------------------
SSE_total_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.5875737   .4093704    -1.44   0.154    -1.397706    .2225583
         _cons |   6.692082   .1880154    35.59   0.000     6.320005    7.064159
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(2, 115)       =     35.45
       Model |  157.509677         2  78.7548387   Prob > F        =    0.0000
    Residual |  255.474799       115  2.22151999   R-squared       =    0.3814
-------------+----------------------------------   Adj R-squared   =    0.3706
       Total |  412.984476       117  3.52978185   Root MSE        =    1.4905

------------------------------------------------------------------------------
---
   SSE_total_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------+-----------------------------------------------------------
---
   student_mentee |  -1.070831   .3916133    -2.73   0.007    -1.846542
-.2951207
SSE_total_pre_low |   -2.37849   .3063911    -7.76   0.000    -2.985392
-1.771588
            _cons |   7.327916   .1694223    43.25   0.000     6.992323
7.663509
```

```
------------------------------------------------------------------------------
---

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      2.22
       Model |  15.6574627         2  7.82873134   Prob > F        =    0.1133
    Residual |  441.559064       125  3.53247251   R-squared       =    0.0342
-------------+----------------------------------   Adj R-squared   =    0.0188
       Total |  457.216527       127  3.60013013   Root MSE        =    1.8795

------------------------------------------------------------------------------
SSE_total_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.8382221    .438792    -1.91   0.058    -1.706646    .0302017
student_gender |   .5557059   .3624837     1.53   0.128    -.1616944    1.273106
         _cons |   6.510514   .2213637    29.41   0.000     6.072408    6.948621
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       128
-------------+----------------------------------   F(2, 125)       =      3.81
       Model |  26.2747459         2  13.1373729   Prob > F        =    0.0247
    Residual |  430.941781       125  3.44753424   R-squared       =    0.0575
-------------+----------------------------------   Adj R-squared   =    0.0424
       Total |  457.216527       127  3.60013013   Root MSE        =    1.8568

------------------------------------------------------------------------------
--------
        SSE_total_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |  -.3775783    .412136    -0.92   0.361    -1.193247
 .43809
student_difficultevent |  -.7975729   .3404634    -2.34   0.021    -1.471392
-.1237537
                 _cons |   6.984262   .2229128    31.33   0.000      6.54309
7.425434
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(5, 112)       =     15.61
       Model |  169.615543         5  33.9231086   Prob > F        =    0.0000
    Residual |  243.368934       112  2.17293691   R-squared       =    0.4107
-------------+----------------------------------   Adj R-squared   =    0.3844
       Total |  412.984476       117  3.52978185   Root MSE        =    1.4741

------------------------------------------------------------------------------
------------------
                  SSE_total_post | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
---------------------------------+--------------------------------------------
------------------
                  student_mentee |
```

```
                            Yes  |  -1.549627   .4890262    -3.17   0.002
-2.51857   -.5806846
                                 |
                SSE_total_pre_low |
                 Low at baseline  |  -2.456344   .3496544    -7.03   0.000
-3.14914   -1.763549
                                 |
student_mentee#SSE_total_pre_low |
             Yes#Low at baseline  |   .9435974   .8218875     1.15   0.253
-.6848674    2.572062
                                 |
          student_difficultevent |  -.2174484   .3024486    -0.72   0.474
-.8167116    .3818149
                 student_gender |   .5630224   .2958033     1.90   0.060
-.0230738    1.149119
                           _cons |    7.24443   .2080241    34.82   0.000
6.832257    7.656603
------------------------------------------------------------------------------
------------------

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. *****************
. ** Resilience
. *****************
.
. mdesc brs_post

    Variable    |     Missing          Total     Percent Missing
----------------+-----------------------------------------------
       brs_post |         246            424          58.02
----------------+-----------------------------------------------

.
. mean brs_pre, over(student_mentee)

Mean estimation                                    Number of obs = 420

------------------------------------------------------------------------------
                             |       Mean   Std. err.     [95% conf. interval]
-----------------------------+------------------------------------------------
c.brs_pre@student_mentee |
                          No |   3.122161   .0363401      3.050729    3.193593
                         Yes |   2.900907   .0515199      2.799637    3.002177
------------------------------------------------------------------------------

. mean brs_post, over(student_mentee)

Mean estimation                                    Number of obs = 178

------------------------------------------------------------------------------
                             |       Mean   Std. err.     [95% conf. interval]
-----------------------------+------------------------------------------------
```

```
c.brs_post@student_mentee |
                      No  |   3.079518   .0579237      2.965208    3.193828
                     Yes  |   3.001754   .0712713      2.861104    3.142405
------------------------------------------------------------------------------


.
. foreach var of varlist brs_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee brs_pre_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##brs_pre_low student_difficultevent
student_gender
  7. }

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(1, 176)       =      0.69
       Model |  .267876895         1  .267876895   Prob > F        =    0.4068
    Residual |  68.1959971       176  .387477256   R-squared       =    0.0039
-------------+----------------------------------   Adj R-squared   =   -0.0017
       Total |   68.463874       177  .386801548   Root MSE        =    .62248

------------------------------------------------------------------------------
      brs_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.0777637    .093526    -0.83   0.407    -.2623404    .1068131
         _cons |   3.079518   .0683257    45.07   0.000     2.944675    3.214361
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       177
-------------+----------------------------------   F(2, 174)       =      2.71
       Model |  2.06523038         2  1.03261519   Prob > F        =    0.0696
    Residual |  66.3971903       174  .381593048   R-squared       =    0.0302
-------------+----------------------------------   Adj R-squared   =    0.0190
       Total |  68.4624207       176  .388991027   Root MSE        =    .61773

------------------------------------------------------------------------------
      brs_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
student_mentee |  -.0264445   .0959963    -0.28   0.783    -.2159117    .1630226
   brs_pre_low |  -.2157663   .0993784    -2.17   0.031    -.4119086    -.019624
         _cons |    3.13151   .0719093    43.55   0.000     2.989583    3.273437
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =      0.68
       Model |  .531393149         2  .265696575   Prob > F        =    0.5057
    Residual |  67.9324809       175  .388185605   R-squared       =    0.0078
-------------+----------------------------------   Adj R-squared   =   -0.0036
       Total |   68.463874       177  .386801548   Root MSE        =    .62305

------------------------------------------------------------------------------
      brs_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
```

```
student_mentee |  -.0594298   .0962198    -0.62   0.538    -.2493304    .1304708
student_gender |  -.0793427   .0962992    -0.82   0.411       -.2694    .1107147
         _cons |   3.106284    .075712    41.03   0.000     2.956858     3.25571
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(2, 175)       =      2.53
       Model |  1.92421678         2  .962108388   Prob > F        =    0.0825
    Residual |  66.5396572       175  .380226613   R-squared       =    0.0281
-------------+----------------------------------   Adj R-squared   =    0.0170
       Total |   68.463874       177  .386801548   Root MSE        =    .61663

------------------------------------------------------------------------------
--------
              brs_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
--------
        student_mentee |  -.0612189   .0929853    -0.66   0.511    -.2447358
.1222981
student_difficultevent |  -.1944197   .0931508    -2.09   0.038    -.3782633
-.010576
                 _cons |    3.15916   .0776987    40.66   0.000     3.005813
3.312507
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       177
-------------+----------------------------------   F(5, 171)       =      2.97
       Model |  5.47727052         5   1.0954541   Prob > F        =    0.0134
    Residual |  62.9851502       171  .368334212   R-squared       =    0.0800
-------------+----------------------------------   Adj R-squared   =    0.0531
       Total |  68.4624207       176  .388991027   Root MSE        =    .60691

------------------------------------------------------------------------------
------------
                  brs_post | Coefficient  Std. err.      t    P>|t|     [95%
conf. interval]
---------------------------+--------------------------------------------------
------------
            student_mentee |
                      Yes  |  -.1499587   .1179683    -1.27   0.205    -.3828204
   .0829031
                           |
              brs_pre_low |
         Low at baseline  |  -.4766425   .1580911    -3.01   0.003    -.7887039
  -.1645811
                           |
student_mentee#brs_pre_low |
      Yes#Low at baseline  |   .4270435   .2005099     2.13   0.035     .0312502
   .8228369
                           |
    student_difficultevent |  -.1876278   .0925249    -2.03   0.044    -.3702658
  -.0049898
```

```
            student_gender |  -.0085724   .0965123    -0.09   0.929    -.1990812
   .1819365
                     _cons |   3.274123   .0876786    37.34   0.000     3.101051
   3.447195
------------------------------------------------------------------------------
------------

.
.
.
. ******************
. *** Mental Health
. ******************
. mdesc wemwbs

    Variable    |     Missing          Total     Percent Missing
----------------+-----------------------------------------------
         wemwbs |         127            424          29.95
----------------+-----------------------------------------------

.
. ** Raw
. mean wemwbs, over(student_mentee)

Mean estimation                                   Number of obs = 297

------------------------------------------------------------------------------
                         |       Mean   Std. err.     [95% conf. interval]
-------------------------+----------------------------------------------------
c.wemwbs@student_mentee  |
                      No |   21.76145   .3251802      21.12149    22.40141
                     Yes |   20.55629   .9677113      18.65182    22.46075
------------------------------------------------------------------------------

. mean wemwbs_post, over(student_mentee)

Mean estimation                                   Number of obs = 119

------------------------------------------------------------------------------
                            |       Mean   Std. err.     [95% conf. interval]
----------------------------+-------------------------------------------------
c.wemwbs_post@student_mentee |
                         No |   22.27333    .462928      21.35661    23.19006
                        Yes |   20.05962   .8252993       18.4253    21.69393
------------------------------------------------------------------------------

.
. foreach var of varlist wemwbs_post {
  2. regress `var' student_mentee
  3. regress `var' student_mentee wemwbs_low
  4. regress `var' student_mentee student_gender
  5. regress `var' student_mentee student_difficultevent
  6. regress `var' student_mentee##wemwbs_low student_difficultevent
student_gender
```

```
. }

      Source |       SS           df       MS      Number of obs   =       119
-------------+----------------------------------   F(1, 117)       =      5.12
       Model |  99.5758272         1  99.5758272   Prob > F        =    0.0255
    Residual |  2276.29805       117  19.4555389   R-squared       =    0.0419
-------------+----------------------------------   Adj R-squared   =    0.0337
       Total |  2375.87387       118  20.1345244   Root MSE        =    4.4108

------------------------------------------------------------------------------
  wemwbs_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
student_mentee |  -2.213718   .9785138    -2.26   0.026    -4.151613   -.2758226
         _cons |   22.27333   .4573831    48.70   0.000     21.36751    23.17916
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       103
-------------+----------------------------------   F(2, 100)       =     17.39
       Model |  518.872919         2   259.43646   Prob > F        =    0.0000
    Residual |  1492.08849       100  14.9208849   R-squared       =    0.2580
-------------+----------------------------------   Adj R-squared   =    0.2432
       Total |  2010.96141       102  19.7153079   Root MSE        =    3.8628

------------------------------------------------------------------------------
  wemwbs_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
student_mentee |  -1.885654     1.0592    -1.78   0.078    -3.987076    .2157674
    wemwbs_low |  -4.164306   .7780143    -5.35   0.000    -5.707864   -2.620748
         _cons |   23.63433   .5137624    46.00   0.000     22.61504    24.65362
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       119
-------------+----------------------------------   F(2, 116)       =      3.03
       Model |  117.914094         2  58.9570472   Prob > F        =    0.0522
    Residual |  2257.95978       116  19.4651705   R-squared       =    0.0496
-------------+----------------------------------   Adj R-squared   =    0.0332
       Total |  2375.87387       118  20.1345244   Root MSE        =    4.4119

------------------------------------------------------------------------------
  wemwbs_post | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
student_mentee |  -1.853922     1.0466    -1.77   0.079    -3.926845    .2190016
student_gender |  -.8462913   .8719063    -0.97   0.334    -2.573212    .8806291
         _cons |   22.56453   .5470917    41.24   0.000     21.48095    23.64811
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       119
-------------+----------------------------------   F(2, 116)       =      6.92
       Model |  253.400521         2   126.70026   Prob > F        =    0.0014
    Residual |  2122.47335       116  18.2971841   R-squared       =    0.1067
-------------+----------------------------------   Adj R-squared   =    0.0913
       Total |  2375.87387       118  20.1345244   Root MSE        =    4.2775

------------------------------------------------------------------------------
```

```
--------
           wemwbs_post | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------------
--------
        student_mentee |  -1.680715   .9665785    -1.74   0.085    -3.595145
.2337159
student_difficultevent |  -2.334786   .8052416    -2.90   0.004    -3.929669
-.7399037
                 _cons |   23.17712   .5421299    42.75   0.000     22.10337
24.25088
------------------------------------------------------------------------------
--------

      Source |       SS           df       MS      Number of obs   =       103
-------------+----------------------------------   F(5, 97)        =      6.82
       Model |  523.329061         5  104.665812   Prob > F        =    0.0000
    Residual |  1487.63235        97   15.336416   R-squared       =    0.2602
-------------+----------------------------------   Adj R-squared   =    0.2221
       Total |  2010.96141       102  19.7153079   Root MSE        =    3.9162

------------------------------------------------------------------------------
-----------
              wemwbs_post | Coefficient  Std. err.      t    P>|t|     [95%
conf. interval]
--------------------------+---------------------------------------------------
-----------
           student_mentee |
                      Yes |  -2.048702   1.598197    -1.28   0.203    -5.220681
  1.123277
                          |
                wemwbs_low |
         Low at baseline  |  -4.054435   .9697589    -4.18   0.000    -5.979139
 -2.129732
                          |
student_mentee#wemwbs_low |
     Yes#Low at baseline  |   .5035229   2.161249     0.23   0.816    -3.785959
  4.793004
                          |
   student_difficultevent |  -.3717283   .9020987    -0.41   0.681    -2.162145
  1.418688
           student_gender |  -.1641913   .8236502    -0.20   0.842    -1.798909
  1.470526
                    _cons |   23.79755   .6197455    38.40   0.000     22.56753
  25.02758
------------------------------------------------------------------------------
-----------

.
.
. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
```

```
Analysis\ALL\Stata\06_outcomes_anal
> ysis_26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:36:43
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
--------
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\07_Restandardise
> d_analysis_26 Mar 2024.log
  log type:  text
 opened on:  26 Mar 2024, 20:36:43

.
. ********************************************
. *** Repeating analyses based on standardisation of just matched cohort
. ********************************************
.
.
. *** Create z-scores for change scores
. foreach var of varlist epoc_engagement_change epoc_perser_change
epoc_optimism_change epoc_connect_change SSE_aspiration_change SSE_belong_change
SSE_productivity_cha
> nge helpseeking_change helpseeking2_1_change helpseeking2_2_change
helpseeking2_3_change belonging_change sei_change brs_change wembs_change {
  2.         qui sum `var'
  3.         gen mz_`var'=((`var'-`r(mean)')/`r(sd)')
  4.
. }
(312 missing values generated)
(227 missing values generated)
(246 missing values generated)
(246 missing values generated)
(306 missing values generated)
(306 missing values generated)
(306 missing values generated)
(334 missing values generated)
(224 missing values generated)
(225 missing values generated)
(225 missing values generated)
(241 missing values generated)
(245 missing values generated)
(247 missing values generated)
(321 missing values generated)

.
. sum mz_epoc_engagement_change mz_epoc_perser_change mz_epoc_optimism_change
mz_epoc_connect_change mz_helpseeking2_1_change mz_helpseeking2_2_change
mz_helpseeking2_3
> _change mz_SSE_aspiration_change mz_belonging_change mz_brs_change

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
mz_epoc_en~e |        112   -6.85e-09           1  -2.634972   3.692891
mz_epoc_pe~e |        197    2.27e-09           1   -3.45269   2.455259
mz_epoc_op~e |        178    4.86e-09           1  -2.275458   3.339276
```

```
mz_epoc_co~e |        178    3.89e-09           1  -3.326293   3.201476
mz_~1_change |        200   -4.32e-09           1  -2.592025   3.206689
-------------+------------------------------------------------------------
mz_~2_change |        199   -4.79e-09           1  -2.663641   2.069078
mz_~3_change |        199    6.29e-09           1  -2.742306   2.003076
mz_SSE_asp~e |        118    6.95e-10           1  -3.809928   2.471795
mz_belongi~e |        183    7.28e-09           1  -3.724411   3.105356
mz_brs_cha~e |        177   -2.46e-09           1  -3.058645   2.941562

.
. foreach var of varlist mz_epoc_engagement_change mz_epoc_perser_change
mz_epoc_optimism_change mz_epoc_connect_change mz_helpseeking2_1_change
mz_helpseeking2_2_chang
> e mz_helpseeking2_3_change mz_belonging_change mz_SSE_aspiration_change
mz_brs_change {
  2.         regress `var' _treated
  3.         regress `var' _treated##student_difficultevent
  4.         regress `var' _treated##student_gender
  5. }

      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(1, 110)       =      0.96
       Model |  .959223295         1  .959223295   Prob > F        =    0.3296
    Residual |  110.040775       110  1.00037069   R-squared       =    0.0086
-------------+----------------------------------   Adj R-squared   =   -0.0004
       Total |  110.999999       111  .999999989   Root MSE        =    1.0002

------------------------------------------------------------------------------
mz_epoc_en~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2579186   .2633924     0.98   0.330    -.2640633    .7799005
       _cons |  -.0391484   .1026168    -0.38   0.704    -.2425109    .1642141
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(3, 108)       =      1.15
       Model |  3.44244568         3  1.14748189   Prob > F        =    0.3315
    Residual |  107.557553       108  .995903269   R-squared       =    0.0310
-------------+----------------------------------   Adj R-squared   =    0.0041
       Total |  110.999999       111  .999999989   Root MSE        =    .99795

------------------------------------------------------------------------------
-----------------
      mz_epoc_engagement_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                     _treated |
                      Mentee  |  -.2450822   .4279657    -0.57   0.568
-1.093384    .6032201
                              |
         student_difficultevent |
                           Yes  |   .0312816   .2099692     0.15   0.882
-.3849137     .447477
```

```
                                  |
_treated#student_difficultevent |
                    Mentee#Yes  |    .764912   .5482769     1.40   0.166
-.321868    1.851692
                                  |
                          _cons |  -.0513317   .1310372    -0.39   0.696
-.3110702    .2084067
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       112
-------------+----------------------------------   F(3, 108)       =      0.93
       Model |  2.79886319         3  .932954398   Prob > F        =    0.4283
    Residual |  108.201136       108  1.00186237   R-squared       =    0.0252
-------------+----------------------------------   Adj R-squared   =   -0.0019
       Total |  110.999999       111  .999999989   Root MSE        =    1.0009

------------------------------------------------------------------------------
---------
mz_epoc_engagement_ch~e | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |  -.2002788   .4653295    -0.43   0.668    -1.122643
 .722085
      1.student_gender |   .0848502   .2156816     0.39   0.695    -.3426681
.5123685
                       |
_treated#student_gender |
              Mentee#1  |    .606018   .5747865     1.05   0.294    -.5333086
1.745345
                       |
                  _cons |  -.0686226   .1271183    -0.54   0.590    -.3205932
.1833479
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(1, 195)       =      0.13
       Model |  .128220369         1  .128220369   Prob > F        =    0.7213
    Residual |  195.871781       195  1.00447067   R-squared       =    0.0007
-------------+----------------------------------   Adj R-squared   =   -0.0045
       Total |  196.000001       196  1.00000001   Root MSE        =    1.0022

------------------------------------------------------------------------------
mz_epoc_pe~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |  -.0510563   .1429025    -0.36   0.721    -.3328893    .2307766
       _cons |   .0264353   .1028269     0.26   0.797    -.1763604    .2292309
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(3, 193)       =      0.75
```

```
       Model |  2.26821371         3  .756071236   Prob > F        =    0.5217
    Residual |  193.731788       193  1.00379165   R-squared       =    0.0116
-------------+----------------------------------   Adj R-squared   =   -0.0038
       Total |  196.000001       196  1.00000001   Root MSE        =    1.0019

------------------------------------------------------------------------------
          mz_epoc_perser_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------------------------+---------------------------------------------------------------
                      _treated |
                       Mentee  |   .0095056   .1923251     0.05   0.961    -.3698233    .3888344
                               |
         student_difficultevent |
                           Yes  |    .287689   .2107991     1.36   0.174    -.1280767    .7034548
                               |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.1847182   .2894834    -0.64   0.524    -.7556755     .386239
                               |
                         _cons |   -.085612   .1315551    -0.65   0.516    -.3450824    .1738583
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       197
-------------+----------------------------------   F(3, 193)       =      0.29
       Model |  .884060548         3  .294686849   Prob > F        =    0.8315
    Residual |  195.115941       193  1.01096342   R-squared       =    0.0045
-------------+----------------------------------   Adj R-squared   =   -0.0110
       Total |  196.000001       196  1.00000001   Root MSE        =    1.0055

------------------------------------------------------------------------------
  mz_epoc_perser_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
------------------------+---------------------------------------------------------------
                _treated |
                 Mentee  |  -.0333226   .1995411    -0.17   0.868    -.4268838    .3602386
       1.student_gender |   .1706869    .216659     0.79   0.432    -.2566365    .5980103
                        |
_treated#student_gender |
              Mentee#1  |  -.0988418   .2959508    -0.33   0.739    -.6825549    .4848714
                        |
                  _cons |   -.032856   .1276944    -0.26   0.797    -.2847117    .2189997
------------------------------------------------------------------------------
```

```
---------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(1, 176)       =      0.38
       Model |  .384537293         1  .384537293   Prob > F        =    0.5367
    Residual |  176.615467       176  1.00349697   R-squared       =    0.0022
-------------+----------------------------------   Adj R-squared   =   -0.0035
       Total |  177.000004       177  1.00000002   Root MSE        =    1.0017

------------------------------------------------------------------------------
mz_epoc_op~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .0931705   .1505106     0.62   0.537    -.2038674    .3902084
       _cons |  -.0497258    .109956    -0.45   0.652    -.2667278    .1672762
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(3, 174)       =      1.26
       Model |  3.75188306         3  1.25062769   Prob > F        =    0.2911
    Residual |  173.248121       174  .995678856   R-squared       =    0.0212
-------------+----------------------------------   Adj R-squared   =    0.0043
       Total |  177.000004       177  1.00000002   Root MSE        =    .99784

------------------------------------------------------------------------------
-----------------
       mz_epoc_optimism_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
-------------------------------+----------------------------------------------
-----------------
                   _treated |
                    Mentee  |   .2676491   .2026408     1.32   0.188
-.1323013    .6675995
                            |
         student_difficultevent |
                       Yes  |   .4093127    .222721     1.84   0.068
-.0302699    .8488952
                            |
_treated#student_difficultevent |
                 Mentee#Yes  |  -.4230743   .3025436    -1.40   0.164
-1.020202    .1740534
                            |
                     _cons |  -.2173961   .1425482    -1.53   0.129
-.4987421      .06395
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(3, 174)       =      2.16
       Model |  6.36824254         3  2.12274751   Prob > F        =    0.0939
    Residual |  170.631761       174  .980642307   R-squared       =    0.0360
-------------+----------------------------------   Adj R-squared   =    0.0194
       Total |  177.000004       177  1.00000002   Root MSE        =    .99027

------------------------------------------------------------------------------
```

```
---------
mz_epoc_optimism_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+---------------------------------------------------
---------
               _treated |
                Mentee  |   .2246894   .2057812     1.09   0.276    -.1814592
.6308381
      1.student_gender |    .557327   .2298974     2.42   0.016     .1035806
1.011073
                       |
_treated#student_gender |
             Mentee#1  |  -.4597447   .3085429    -1.49   0.138    -1.068713
.1492237
                       |
                 _cons |  -.2377398   .1335285    -1.78   0.077    -.5012838
.0258043
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(1, 176)       =      4.32
       Model |  4.24430402         1  4.24430402   Prob > F        =    0.0390
    Residual |  172.755699       176  .981566474   R-squared       =    0.0240
-------------+----------------------------------   Adj R-squared   =    0.0184
       Total |  177.000003       177  1.00000002   Root MSE        =    .99074

------------------------------------------------------------------------------
mz_epoc_co~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .3095369   .1488569     2.08   0.039     .0157626    .6033111
       _cons |  -.1652023   .1087479    -1.52   0.131    -.3798199    .0494154
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(3, 174)       =      2.53
       Model |  7.38708009         3  2.46236003   Prob > F        =    0.0591
    Residual |  169.612923       174  .974786915   R-squared       =    0.0417
-------------+----------------------------------   Adj R-squared   =    0.0252
       Total |  177.000003       177  1.00000002   Root MSE        =    .98731

------------------------------------------------------------------------------
-----------------
        mz_epoc_connect_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
-------------------------------+----------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .5159344   .2005035     2.57   0.011
.1202023    .9116666
                               |
         student_difficultevent |
                           Yes |   .3795182    .220372     1.72   0.087
-.0554281    .8144645
```

```
                                  |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.4824664   .2993527    -1.61   0.109
-1.073296    .1083634
                                  |
                          _cons |  -.3206676   .1410447    -2.27   0.024
-.5990463   -.0422888
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       178
-------------+----------------------------------   F(3, 174)       =      1.87
       Model |   5.5398823         3  1.84662743   Prob > F        =    0.1357
    Residual |  171.460121       174  .985402995   R-squared       =    0.0313
-------------+----------------------------------   Adj R-squared   =    0.0146
       Total |  177.000003       177  1.00000002   Root MSE        =    .99267

------------------------------------------------------------------------------
---------
 mz_epoc_connect_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-----------------------+------------------------------------------------------
---------
               _treated |
                Mentee  |   .2306062   .2062801     1.12   0.265    -.1765272
.6377395
       1.student_gender |   .1242641   .2304547     0.54   0.590    -.3305824
.5791106
                        |
_treated#student_gender |
              Mentee#1  |   .0844788   .3092909     0.27   0.785    -.5259661
.6949236
                        |
                  _cons |  -.2071227   .1338522    -1.55   0.124    -.4713057
.0570603
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(1, 198)       =      8.31
       Model |  8.01918115         1  8.01918115   Prob > F        =    0.0044
    Residual |  190.980819       198  .964549588   R-squared       =    0.0403
-------------+----------------------------------   Adj R-squared   =    0.0355
       Total |         199       199  .999999998   Root MSE        =    .98211

------------------------------------------------------------------------------
mz_~1_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .4004993    .138899     2.88   0.004     .1265881    .6744104
       _cons |  -.2022521   .0987063    -2.05   0.042    -.3969026   -.0076017
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(3, 196)       =      3.13
```

```
       Model |  9.09243229         3  3.03081076   Prob > F        =    0.0269
    Residual |  189.907567       196   .96891616   R-squared       =    0.0457
-------------+----------------------------------   Adj R-squared   =    0.0311
       Total |         199       199  .999999998   Root MSE        =    .98434

------------------------------------------------------------------------------
-----------------
       mz_helpseeking2_1_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                        _treated |
                         Mentee  |   .2775901   .1870989     1.48   0.140
-.0913954    .6465755
                                 |
         student_difficultevent |
                            Yes  |  -.0621832   .2044862    -0.30   0.761
-.4654589    .3410924
                                 |
_treated#student_difficultevent |
                     Mentee#Yes  |   .2595669   .2831807     0.92   0.360
-.2989053    .8180392
                                 |
                           _cons |  -.1790119   .1250107    -1.43   0.154
-.4255507    .0675269
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       200
-------------+----------------------------------   F(3, 196)       =      2.91
       Model |  8.49399947         3  2.83133316   Prob > F        =    0.0356
    Residual |     190.506       196  .971969389   R-squared       =    0.0427
-------------+----------------------------------   Adj R-squared   =    0.0280
       Total |         199       199  .999999998   Root MSE        =    .98589

------------------------------------------------------------------------------
---------
mz_helpseeking2_1_cha~e | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |   .3087627   .1945994     1.59   0.114    -.0750148
.6925403
       1.student_gender |  -.1054312   .2101914    -0.50   0.617    -.5199583
 .309096
                        |
_treated#student_gender |
             Mentee#1   |   .2023104   .2894764     0.70   0.485     -.368578
.7731989
                        |
                  _cons |  -.1671084   .1213541    -1.38   0.170    -.4064358
.0722189
------------------------------------------------------------------------------
```

```
---------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(1, 197)       =      7.32
       Model |   7.0910831         1   7.0910831   Prob > F        =    0.0074
    Residual |  190.908918       197  .969080801   R-squared       =    0.0358
-------------+----------------------------------   Adj R-squared   =    0.0309
       Total |  198.000001       198           1   Root MSE        =    .98442

------------------------------------------------------------------------------
mz_~2_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .377542    .139569     2.71   0.007     .1023009     .652783
       _cons |  -.1897196   .0989378    -1.92   0.057    -.3848328    .0053936
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(3, 195)       =      2.61
       Model |  7.65042355         3  2.55014118   Prob > F        =    0.0526
    Residual |  190.349577       195  .976151678   R-squared       =    0.0386
-------------+----------------------------------   Adj R-squared   =    0.0238
       Total |  198.000001       198           1   Root MSE        =      .988

------------------------------------------------------------------------------
-----------------
       mz_helpseeking2_2_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                        _treated |
                         Mentee  |   .3150733    .188854     1.67   0.097
-.0573854    .6875319
                                 |
         student_difficultevent |
                            Yes  |   .0324936   .2052483     0.16   0.874
-.3722979    .4372851
                                 |
_treated#student_difficultevent |
                     Mentee#Yes  |    .113806    .284936     0.40   0.690
-.4481461     .675758
                                 |
                           _cons |  -.2018637   .1254766    -1.61   0.109
-.4493292    .0456018
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(3, 195)       =      3.23
       Model |  9.37805136         3  3.12601712   Prob > F        =    0.0235
    Residual |  188.621949       195  .967292048   R-squared       =    0.0474
-------------+----------------------------------   Adj R-squared   =    0.0327
       Total |  198.000001       198           1   Root MSE        =    .98351

------------------------------------------------------------------------------
```

```
---------
mz_helpseeking2_2_cha~e | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+---------------------------------------------------
---------
               _treated |
                Mentee  |   .2202456   .1941306     1.13   0.258    -.1626196
.6031108
       1.student_gender |   .0537809   .2096851     0.26   0.798    -.3597608
.4673226
                        |
_treated#student_gender |
              Mentee#1  |   .2483283   .2892681     0.86   0.392    -.3221675
 .818824
                        |
                  _cons |  -.2076466   .1210617    -1.72   0.088     -.446405
.0311119
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(1, 197)       =      3.82
       Model |  3.76345867         1  3.76345867   Prob > F        =    0.0522
    Residual |  194.236549       197  .985972332   R-squared       =    0.0190
-------------+----------------------------------   Adj R-squared   =    0.0140
       Total |  198.000008       198  1.00000004   Root MSE        =    .99296

------------------------------------------------------------------------------
mz_~3_change | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .275072   .1407943     1.95   0.052    -.0025856    .5527296
       _cons |  -.1396094   .1003042    -1.39   0.166    -.3374173    .0581985
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(3, 195)       =      1.96
       Model |  5.80996028         3  1.93665343   Prob > F        =    0.1206
    Residual |  192.190048       195  .985589988   R-squared       =    0.0293
-------------+----------------------------------   Adj R-squared   =    0.0144
       Total |  198.000008       198  1.00000004   Root MSE        =    .99277

------------------------------------------------------------------------------
-----------------
       mz_helpseeking2_3_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |    .204596   .1893912     1.08   0.281
-.1689221     .578114
                               |
         student_difficultevent |
                           Yes  |   .1455993    .206869     0.70   0.482
-.2623885    .5535872
```

```
                                |
_treated#student_difficultevent |
                  Mentee#Yes  |   .1028354   .2860627     0.36   0.720
-.4613387    .6670094
                                |
                          _cons |  -.1945806    .127111    -1.53   0.127
-.4452695    .0561083
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       199
-------------+----------------------------------   F(3, 195)       =      1.68
       Model |  4.99732107         3  1.66577369   Prob > F        =    0.1720
    Residual |  193.002687       195  .989757369   R-squared       =    0.0252
-------------+----------------------------------   Adj R-squared   =    0.0102
       Total |  198.000008       198  1.00000004   Root MSE        =    .99487

------------------------------------------------------------------------------
---------
mz_helpseeking2_3_cha~e | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |   .1216765   .1969586     0.62   0.537    -.2667661
 .510119
      1.student_gender |  -.1299726   .2126492    -0.61   0.542    -.5493602
.2894151
                       |
_treated#student_gender |
              Mentee#1  |    .317643   .2925079     1.09   0.279    -.2592423
.8945283
                       |
                 _cons |  -.0958431   .1233979    -0.78   0.438    -.3392089
.1475227
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       183
-------------+----------------------------------   F(1, 181)       =      2.20
       Model |  2.18126609         1  2.18126609   Prob > F        =    0.1401
    Residual |  179.818734       181   .99347367   R-squared       =    0.0120
-------------+----------------------------------   Adj R-squared   =    0.0065
       Total |         182       182           1   Root MSE        =    .99673

------------------------------------------------------------------------------
mz_belongi~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   .2185127   .1474689     1.48   0.140    -.0724667    .5094921
       _cons |  -.1134356   .1062519    -1.07   0.287    -.3230873    .0962162
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       183
-------------+----------------------------------   F(3, 179)       =      3.77
```

```
       Model |  10.8241348         3  3.60804495   Prob > F        =    0.0117
    Residual |  171.175865       179  .956289751   R-squared       =    0.0595
-------------+----------------------------------   Adj R-squared   =    0.0437
       Total |         182       182           1   Root MSE        =     .9779

------------------------------------------------------------------------------
-----------------
           mz_belonging_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
-------------------------------+----------------------------------------------
-----------------
                       _treated |
                        Mentee  |   .4582948   .1939891     2.36   0.019
.075495    .8410945
                                |
         student_difficultevent |
                           Yes  |   .6433477   .2140917     3.01   0.003
.2208795    1.065816
                                |
_treated#student_difficultevent |
                     Mentee#Yes  |  -.6255926   .2934357    -2.13   0.034
-1.204631   -.0465542
                                |
                           _cons |  -.3620017   .1330754    -2.72   0.007
-.6246002   -.0994033
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       183
-------------+----------------------------------   F(3, 179)       =      1.60
       Model |  4.76718198         3  1.58906066   Prob > F        =    0.1899
    Residual |  177.232818       179  .990127477   R-squared       =    0.0262
-------------+----------------------------------   Adj R-squared   =    0.0099
       Total |         182       182           1   Root MSE        =    .99505

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    mz_belonging_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
                _treated |
                 Mentee  |    .297392   .2016224     1.47   0.142    -.1004705
.6952545
       1.student_gender |    .361296   .2277363     1.59   0.114    -.0880973
.8106892
                        |
_treated#student_gender |
              Mentee#1  |  -.2978244   .3071628    -0.97   0.334    -.9039504
.3083015
                        |
                  _cons |  -.2283934   .1284606    -1.78   0.077    -.4818854
.0250986
------------------------------------------------------------------------------
```

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      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(1, 116)       =      0.03
       Model |  .030542393         1  .030542393   Prob > F        =    0.8621
    Residual |  116.969456       116  1.00835738   R-squared       =    0.0003
-------------+----------------------------------   Adj R-squared   =   -0.0084
       Total |  116.999998       117  .999999985   Root MSE        =    1.0042

------------------------------------------------------------------------------
mz_SSE_asp~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |   -.045815   .2632468    -0.17   0.862    -.5672084    .4755785
       _cons |   .0066005   .0999186     0.07   0.947     -.191301    .2045019
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(3, 114)       =      0.12
       Model |  .372833003         3  .124277668   Prob > F        =    0.9473
    Residual |  116.627165       114  1.02304531   R-squared       =    0.0032
-------------+----------------------------------   Adj R-squared   =   -0.0230
       Total |  116.999998       117  .999999985   Root MSE        =    1.0115

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-----------------
       mz_SSE_aspiration_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                        _treated |
                         Mentee  |  -.0624603   .4318479    -0.14   0.885
-.9179477    .7930271
                                 |
         student_difficultevent |
                            Yes  |   .1150331   .2088898     0.55   0.583
-.298776    .5288422
                                 |
_treated#student_difficultevent |
                     Mentee#Yes  |  -.0241817   .5542081    -0.04   0.965
-1.122064      1.0737
                                 |
                           _cons |  -.0355404   .1264321    -0.28   0.779
-.2860014    .2149207
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       118
-------------+----------------------------------   F(3, 114)       =      1.30
       Model |   3.8828831         3  1.29429437   Prob > F        =    0.2765
    Residual |  113.117115       114  .992255396   R-squared       =    0.0332
-------------+----------------------------------   Adj R-squared   =    0.0077
       Total |  116.999998       117  .999999985   Root MSE        =    .99612

------------------------------------------------------------------------------
```

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---------
mz_SSE_aspiration_cha~e | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+---------------------------------------------------
---------
               _treated |
                Mentee  |  -.5328547   .4615659    -1.15   0.251    -1.447213
.3815038
       1.student_gender |   .2623111   .2113299     1.24   0.217    -.1563319
 .680954
                        |
_treated#student_gender |
              Mentee#1  |   .5490782   .5707884     0.96   0.338    -.5816492
1.679806
                        |
                  _cons |  -.0791051   .1207973    -0.65   0.514    -.3184037
.1601934
------------------------------------------------------------------------------
---------

      Source |       SS           df       MS      Number of obs   =       177
-------------+----------------------------------   F(1, 175)       =      1.36
       Model |  1.36038742         1  1.36038742   Prob > F        =    0.2446
    Residual |  174.639611       175  .997940636   R-squared       =    0.0077
-------------+----------------------------------   Adj R-squared   =    0.0021
       Total |  175.999999       176  .999999993   Root MSE        =    .99897

------------------------------------------------------------------------------
mz_brs_cha~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    _treated |    .175677   .1504652     1.17   0.245    -.1212829     .472637
       _cons |  -.0932974   .1096512    -0.85   0.396    -.3097063    .1231115
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =       177
-------------+----------------------------------   F(3, 173)       =      1.59
       Model |  4.72897252         3  1.57632417   Prob > F        =    0.1930
    Residual |  171.271026       173  .990005932   R-squared       =    0.0269
-------------+----------------------------------   Adj R-squared   =    0.0100
       Total |  175.999999       176  .999999993   Root MSE        =    .99499

------------------------------------------------------------------------------
-----------------
                  mz_brs_change | Coefficient  Std. err.      t    P>|t|
[95% conf. interval]
--------------------------------+---------------------------------------------
-----------------
                      _treated |
                       Mentee  |   .2358176   .2031457     1.16   0.247
-.1651454    .6367807
                               |
         student_difficultevent |
                           Yes  |  -.2331598   .2220856    -1.05   0.295
-.6715061    .2051864
```

```
                                  |
_treated#student_difficultevent |
                    Mentee#Yes  |  -.0781439   .3024069    -0.26   0.796
-.675026    .5187382
                                  |
                          _cons |   .0022138   .1421415     0.02   0.988
-.278341    .2827686
------------------------------------------------------------------------------
-----------------

      Source |       SS           df       MS      Number of obs   =       177
-------------+----------------------------------   F(3, 173)       =      1.48
       Model |  4.39668221         3  1.46556074   Prob > F        =    0.2224
    Residual |  171.603316       173  .991926685   R-squared       =    0.0250
-------------+----------------------------------   Adj R-squared   =    0.0081
       Total |  175.999999       176  .999999993   Root MSE        =    .99596

------------------------------------------------------------------------------
---------
          mz_brs_change | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
------------------------+-----------------------------------------------------
---------
               _treated |
                Mentee  |   .2635261   .2054954     1.28   0.201    -.1420748
.6691271
       1.student_gender |   .3944942   .2312163     1.71   0.090     -.061874
.8508623
                        |
_treated#student_gender |
              Mentee#1  |  -.3142691    .310435    -1.01   0.313    -.9269969
.2984587
                        |
                  _cons |  -.2263798   .1342946    -1.69   0.094    -.4914465
 .038687
------------------------------------------------------------------------------
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. log close
      name:  <unnamed>
       log:  C:\Users\quachjl\OneDrive - The University of
Melbourne\Documents\1_Projects\1_InProgress\2022_RAISE Evaluation\10_Data
Analysis\ALL\Stata\07_Restandardise
> d_analysis_26 Mar 2024.log
  log type:  text
 closed on:  26 Mar 2024, 20:36:44
------------------------------------------------------------------------------
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```

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