

Study of College Transition Messaging in GEAR UP: Impacts on Enrolling and Staying in College

NCEE 2021-005
U.S. Department of Education

A Publication of the National Center for Education Evaluation at IES



U.S. Department of Education

Phil Rosenfelt
Acting Secretary

Institute of Education Sciences

Mark Schneider
Director

National Center for Education Evaluation and Regional Assistance

Matthew Soldner
Commissioner

Marsha Silverberg
Project Officer

The Institute of Education Sciences (IES) is the independent, non-partisan statistics, research, and evaluation arm of the U.S. Department of Education. The IES mission is to provide scientific evidence on which to ground education practice and policy and to share this information in formats that are useful and accessible to educators, parents, policymakers, researchers, and the public.

We strive to make our products available in a variety of formats and in language that is appropriate to a variety of audiences. You, as our customer, are the best judge of our success in communicating information effectively. If you have any comments or suggestions about this or any other IES product or report, we would like to hear from you. Please direct your comments to ncee.feedback@ed.gov.

This report was prepared for the Institute of Education Sciences (IES) under Contract ED-IES-12-C-0087 by Abt Associates and Mathematica. The content of the publication does not necessarily reflect the views or policies of IES or the U.S. Department of Education nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. Government.

February 2021

This report is in the public domain. While permission to reprint this publication is not necessary, it should be cited as:

Linkow, T., Miller, H., Parsad, A., Price, C. & Martinez, A. (2021). *Study of College Transition Messaging in GEAR UP: Impacts on Enrolling and Staying in College* (NCEE 2021-005). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. Retrieved from <http://ies.ed.gov/ncee>.

This report is available on the Institute of Education Sciences website at <http://ies.ed.gov/ncee>.



Study of College Transition Messaging in GEAR UP: Impacts on Enrolling and Staying in College

February 2021

Tamara Linkow
Hannah Miller
Amanda Parsad
Cristofer Price
Abt Associates

Alina Martinez
Mathematica

Many high school seniors who plan to attend college do not enroll, and others enroll but do not return for a second year. Low-income students are more likely than their higher-income peers to fall off track after high school ends, when they often have limited connections to advisors, insufficient information about key college transition steps, and concerns about falling short and fitting in. Text-message-based advising is an increasingly popular strategy to address these challenges, including among states and districts that participate in the federal college access program Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP). In this study about 4,800 college-intending seniors in high-need high schools across the country were randomly divided into two groups: one received their regular GEAR UP supports in the summer before and during their first year of college, and the other group received these regular supports with the addition of text messaging designed to support a successful transition to college. The study compared the experiences and outcomes of the two groups to determine the effectiveness of the transition messaging.

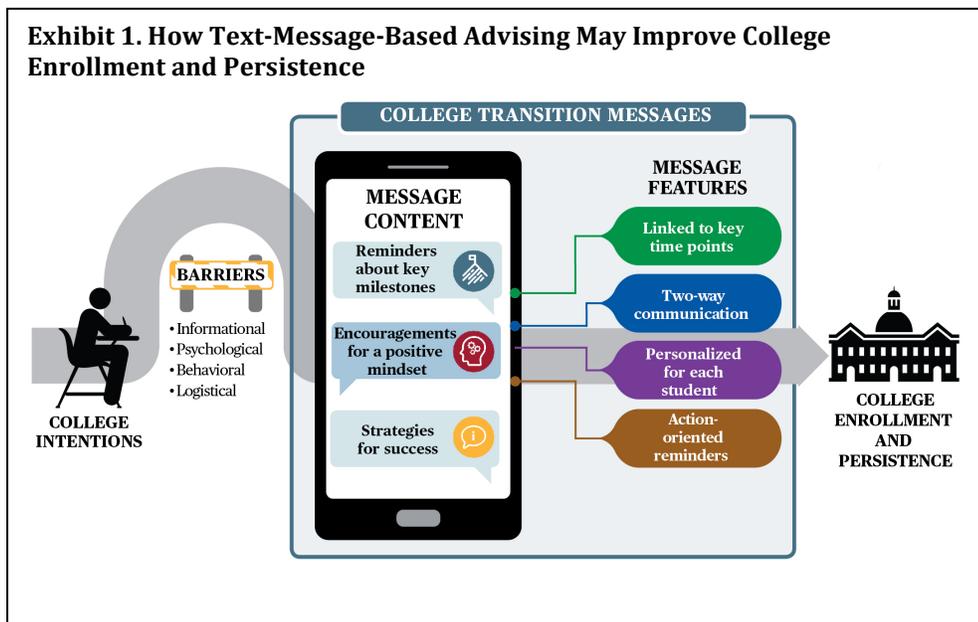
Key Findings

- *The college transition messaging made no difference in whether students enrolled in college immediately after high school, nor whether they stayed enrolled in college throughout the first year.*
- *Students were sent, and responded to, the messages as intended. But, students already had more information about college than expected and advisors potentially needed more information to support students dispersed across an average of 8 colleges, both of which may have been factors that limited the effectiveness of the messaging.*

The summer after high school and the first year of college can be challenging for students, especially for low-income students who may have less familiarity with college processes and expectations.¹ During the summer, when high school services have ended, students must complete multiple pre-enrollment steps such as paying deposits, registering for classes, and filling out housing and health insurance forms. Once college begins, access to supports can still be limited, with college advisor-to-student ratios often as high as 1 to 260 at four-year institutions.² During this period many low-income students, including those who are the first in their family to attend college, struggle with new cultural norms at college and anxiety about doing well academically and socially.³ At least partly for these

reasons, perhaps as many as 40 percent of low-income high school seniors who intend to go to college fail to enroll the following fall,⁴ and as many as half of low-income students who start college leave without earning a credential.⁵

This study's text-message-based advising program was designed to address these barriers and strengthen students' transition into postsecondary education (**Exhibit 1**). This kind of messaging had shown promise in a small set of studies as a way to raise the college enrollment and



persistence rates of low-income and first-generation college students. The messages in those earlier studies provided reminders about important milestones, guidance on logistics, and success strategies. The earlier studies emphasized the importance of certain messaging features, such as connecting students to counselors for follow up communication, personalizing messages to students' specific intended college, timing messaging to key decision points, and framing messages to help nudge students toward taking action.⁶ New messages were added in the current study to help students develop a positive and growth-oriented mindset, based on emerging evidence about the benefits of these mindsets for academic success in college. With the help of education and psychological experts who had developed the earlier promising strategies, this study enhanced and integrated them into a single approach (see Appendix A).⁷

The text-message-based advising was tested in high schools participating in the federal Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP) in order to fulfill a new program need. GEAR UP is a U.S. Department of Education (ED) program that now provides up to seven-year grants to states and local partnerships of districts and higher education institutions to improve the college success of students in high-need middle and high schools. GEAR UP grantees use a variety of approaches to provide services to eligible students,⁸ each grantee choosing its specific offerings to supplement existing activities focused on increasing high school graduation rates and improving college preparation of low-income students.⁹ GEAR UP activities are expected to include some combination of financial aid information and assistance, mentoring, tutoring, academic and career counseling, trips to college campuses, and encouragement to enroll in rigorous courses. In a typical year, GEAR UP grantees around the country serve about half a million students in more than 40 states.¹⁰

In 2015, GEAR UP grantees were beginning to take advantage of a change in federal law that allowed them to extend services for one year beyond high school – when students might scatter to pursue different postsecondary education or training options.¹¹ Texting, and the promising research supporting it, attracted the attention of GEAR UP leaders as a low-cost way for GEAR UP advisors, typically based at high schools, to provide students with access to information and support during this critical transition period.¹² As interest in this approach grew, ED's Institute of Education Sciences offered to provide and evaluate an enhanced messaging program to generate evidence of effectiveness for both the GEAR UP community and others seeking to improve college success for low-income students. GEAR UP directors from 16 grants across the country agreed to participate in this demonstration of text-message-based advising.¹³ More about the study and its design is described in Box 1.

Box 1. Overview of the Evaluation Design

Who participated?

- 16 GEAR UP grantees across the country, and 81 of the high schools they serve.¹⁴
- From these schools, 4,803 high school seniors in school years 2015-16 and 2016-17 participated. Students who reported both intentions to enroll in college immediately after high school and interest in receiving text messages were included in the study.¹⁵ Based on information collected from the students:
 - 51 percent were Hispanic; 33 percent were from single-parent households; and 71 percent would be the first in their family to attain a college degree.
 - 54 percent reported taking at least one Advanced Placement or International Baccalaureate course in high school, and 80 percent expected to earn a bachelor's degree or higher.

How was the study conducted?

- Within each school, students were randomly assigned by lottery either to receive regular GEAR UP services plus the college transition messaging (the “messed” group) or to receive regular GEAR UP services only (the “non-messed” group).¹⁶
- The study compared outcomes for the two groups using statistical (regression) models, which took into account the demographic and academic characteristics of participating students and schools. The students in the messed and non-messed groups were similar on most of the characteristics measured before the lottery,¹⁷ suggesting that the lottery worked as planned to create two statistically similar groups. Thus, any differences in students’ outcomes can be interpreted as impacts of the messaging.¹⁸

What outcomes were measured and why?

- College enrollment immediately after high school,¹⁹ because the text messages began in the summer after students completed high school.
- College persistence, because the text messages continued throughout students’ first year of college. The study examined two measures of persistence:
 - Continuous enrollment in the year after high school.
 - Continuous enrollment into the second fall after high school.
- Free Application for Federal Student Aid (FAFSA) completion for the second year after high school, because securing financial aid is likely essential for GEAR UP students to persist in college.²⁰

What data were used?

- A student survey (82 percent of students responded) to identify eligible students and describe their characteristics.
- National Student Clearinghouse and Federal Student Aid (FSA) data to measure college enrollment and persistence.
- FSA data to measure FAFSA completion.
- Implementation data on messages sent and delivered, collected daily from the text messaging platform and its provider.
- Administrative data from GEAR UP Annual Performance Reports as well as the Common Core of Data and the Integrated Postsecondary Education Data System (both U.S. Department of Education data systems) to measure student, college, and GEAR UP project characteristics.

STUDENTS SENT TEXT MESSAGES WERE NO MORE LIKELY TO ENROLL OR PERSIST IN COLLEGE THAN WERE OTHER STUDENTS

The low-cost text messaging program (about \$15 per student) addressed the informational, logistical, psychological, and behavioral challenges that students may face in enrolling and staying in college.^{21,22} The messages focused on reminders about key milestones, positive mindset prompts, and success strategies for the transition period during which students are beginning and adjusting to college (**Exhibit 2**). Although the content of the text messages was guided by prior research,²³ the study team and its experts conducted a significant piloting effort to improve on earlier versions and tailor it to GEAR UP students. The piloting included focus groups and debrief sessions with students who were shown the messages and asked for feedback, and a series of rapid turnaround, small-scale experiments to assess whether different message presentation approaches worked better or worse than others. The pilots helped to fine-tune the messages.²⁴

The wording and delivery of the messages were important features of the program (**Exhibit 3**). Messages were action-oriented (for example, “submit the housing form,” “register for orientation”), nudging students to meet a milestone or seek needed support.²⁵ Messages were also personalized, initially based on a student’s intended college and then on the college where the student enrolled. For example, a message might say, “Hi, Sara! Your tuition bill is due August 20th. Need info about tuition payment options?” and provide a link to a relevant campus resource. Accuracy of the personalized information was high because 86 percent of students provided the name of their intended college before or at the beginning of the messaging.²⁶

Messages were sent automatically through a messaging platform. The automatic messages were programmed to be sent to students two to three times per month starting at the end of high school and continuing through the first

Exhibit 2. College Transition Messaging Focused on Three Types of Supports



Reminders about key milestones related to enrolling and persisting in college



Mindset prompts encouraging students to believe that abilities can be developed through effort and that worries of social belonging will pass



Success strategies with concrete tips and suggested campus resources where students could seek additional support

Exhibit 3. Sample College Transition Messages

Reminder about key milestone

(1/2) Hey Monica! Have you signed up for the UC Santa Barbara orientation?
 (2/2) Need to register? Visit <http://orientation.sa.ucsb.edu/fresh-man-orientation> for more information. Text back if I can help.

Strategy for success

Are midterms coming up in the next couple weeks? Writing out a study schedule can help you stay on track to prepare for your exams/papers.

Encouragement for a positive mindset

Hi Robert! How are you feeling about transitioning to college at the end of the summer? Reply 1-10, 1=anxious, 10=excited.

If 7 OR ABOVE: Great to hear! Some students go back and forth between being excited and nervous. That’s totally normal when you’re going into a new situation.

If 4-6: That’s OK, it’s normal to be a bit nervous. Most students find over time that their nervousness goes away. Text me if you want to talk.

If 3 OR BELOW: It’s normal to feel nervous. Most students find that they feel less nervous over time. Let me know if you want to talk.

year of college (June to May).²⁷ In total, 37 messages were programmed to correspond with key college milestones; for example, before registration deadlines, tuition payment due dates, and the opening of the Free Application for Federal Student Aid (FAFSA) renewal period.

In addition to the programmed messages, advisors could write and send their own text messages on an ad hoc basis to individual students or groups of students. The messaging platform allowed two-way communication, so students could reply to receive additional support

from a GEAR UP advisor. Advisors received training to prepare them for this role. A national college advising organization with experience delivering text-message-based advising provided four 1-hour webinars to GEAR UP advisors on the content of the text messages, key college advising topics, and best practices and strategies for advising via text messages. The webinars were held at strategic times throughout the messaging period so that information provided could focus on upcoming issues students might face, such as signing up for orientation and paying for college in the summer webinars, adjusting to college courses during the fall webinar, and activities students might need to complete soon in the winter webinar. During the first webinar, the text messaging platform provider instructed advisors on how to use the platform. Additional ongoing technical support was available to advisors throughout the text messaging program.²⁸

- *The college transition messaging did not increase college enrollment in the fall after high school.* Because being accepted to college is just one step toward successful enrollment, the messages reminded students about activities they needed to complete during the summer before the start of classes. Eleven (11) college transition messages were sent to students over the summer.

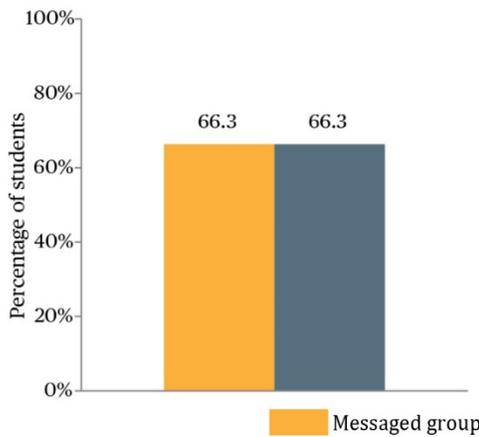
However, the potential of this text-message-based advising approach to get low-income college-intending students through the door on the first day of college was not realized.²⁹ About 66 percent of students in both the messaged group and the non-messaged group enrolled in college immediately after high school as they had intended (**Exhibit 4**, panel 1).³⁰ This is nearly the same rate of immediate college enrollment as for low-income students nationally: among the graduating class of 2016, 65 percent of low-income students enrolled in college immediately after high school.³¹ The lack of an effect on immediate college enrollment was consistent for most groups of GEAR UP students and high schools (“subgroups”) that the study examined.³²

- *The college transition messaging did not affect whether students were enrolled throughout the first year of college.* Students continue to face challenges after they enroll in college and may drop out or fail to return for a second year because of doubts about whether they belong in college or can meet the demands of college-level work. Because the GEAR UP program had been extended to help students during this period, messages continued throughout the first year of college rather than ending after the summer. Messages during the first year of college focused on keeping students in college by directing them to on-campus resources, reminding them of deadlines throughout the year, and assuring them that struggles with social belonging and feelings of fitting in are normal.

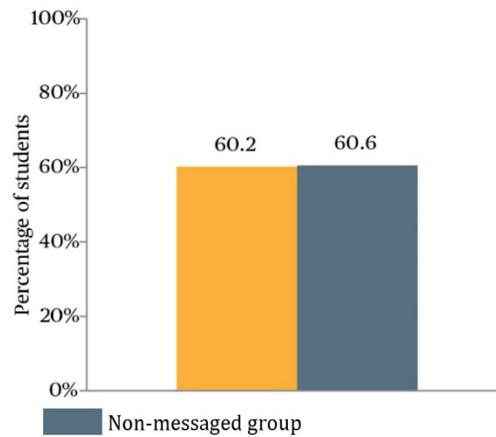
Even though students and advisors continued to engage with each other throughout the school year, students in the messaged group were no more likely than those in the non-messaged group to be continuously enrolled in college throughout the first year after high school (**Exhibit 4**, panel 2).^{33,34} Similarly, there were no differences in continuous first year enrollment for most subgroups that the study examined.³⁵

Exhibit 4. Impact of College Transition Messaging on Enrollment

Panel 1: Immediate College Enrollment



Panel 2: Continuous Enrollment During Year After High School



Notes: Data include 2,819 students in the messaged group and 1,984 in the non-messaged group. Percentage of students represents those who (panel 1) enrolled in college on October 1 of the first year after high school and (panel 2) were enrolled continuously during the first year after high school (that is, between July 1 and June 30 without a break of five consecutive months or more). The effect of messaging is estimated using the study's statistical model.

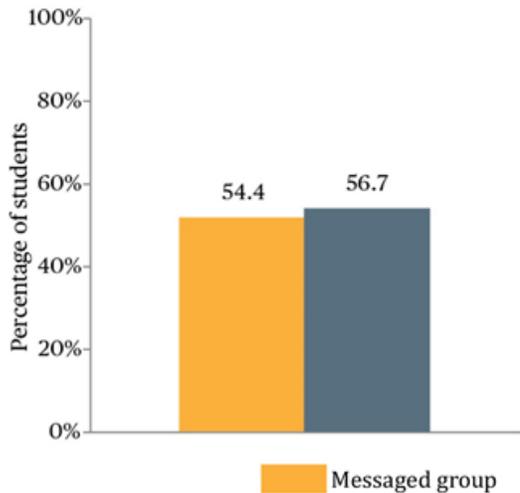
Source: Federal Student Aid 2017, 2018, 2019; National Student Clearinghouse 2018.

- *The college transition messaging did not prompt more students to complete the FAFSA for the subsequent year or continue enrollment into a second year of college.* One reason students may not continue into a second year of college is difficulty funding their education. Renewing the FAFSA provides access to federal financial aid and often state and local aid, as well. Messages starting in late fall reminded students to take steps to finance their next year of college by completing the FAFSA. Somewhat more than half of GEAR UP students in both the messaged group and the non-messaged group completed the FAFSA for the second year after high school (**Exhibit 5**, panel 1).³⁶ There were generally no differences in FAFSA completion for most subgroups examined.³⁷

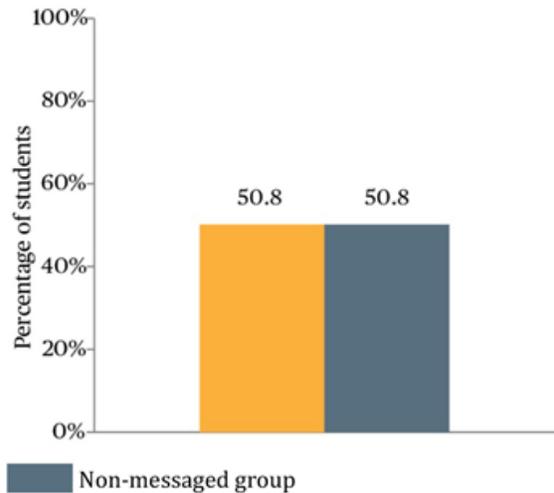
In addition to reminders about completing the FAFSA for the next school year, the text messages sent to students in the spring of their first year in college encouraged them to believe in their abilities and reminded them to register for classes for the next school year. Yet, consistent with the results for FAFSA completion, students in the messaged group were no more likely to be continuously enrolled into the second year of college than those in the non-messaged group (**Exhibit 5**, panel 2).³⁸ Similarly, there were generally no differences in continuous enrollment into the second fall for most subgroups examined.³⁹

Exhibit 5. Impact of College Transition Messaging on Persistence into the Second Year after High School

Panel 1: FAFSA Completion for the Second Year



Panel 2: Continuous Enrollment into Second Fall After High School



Notes: Data include 2,819 students in the message group and 1,984 in the non-message group. Percentage of students represents those who (panel 1) completed the FAFSA by October 1 of the second year after high school or (panel 2) were enrolled continuously during the first year after high school (that is, between July 1 and June 30 without a break of five consecutive months or more) and were also enrolled on October 1 of the second year after high school. The effect of messaging is estimated using the study's statistical model.

Source: Federal Student Aid 2017, 2018, 2019; National Student Clearinghouse 2018.

MESSAGING WENT AS PLANNED, BUT THE INFORMATION STUDENTS AND ADVISORS HAD MAY HAVE BEEN AMONG THE FACTORS THAT LIMITED ITS EFFECTIVENESS

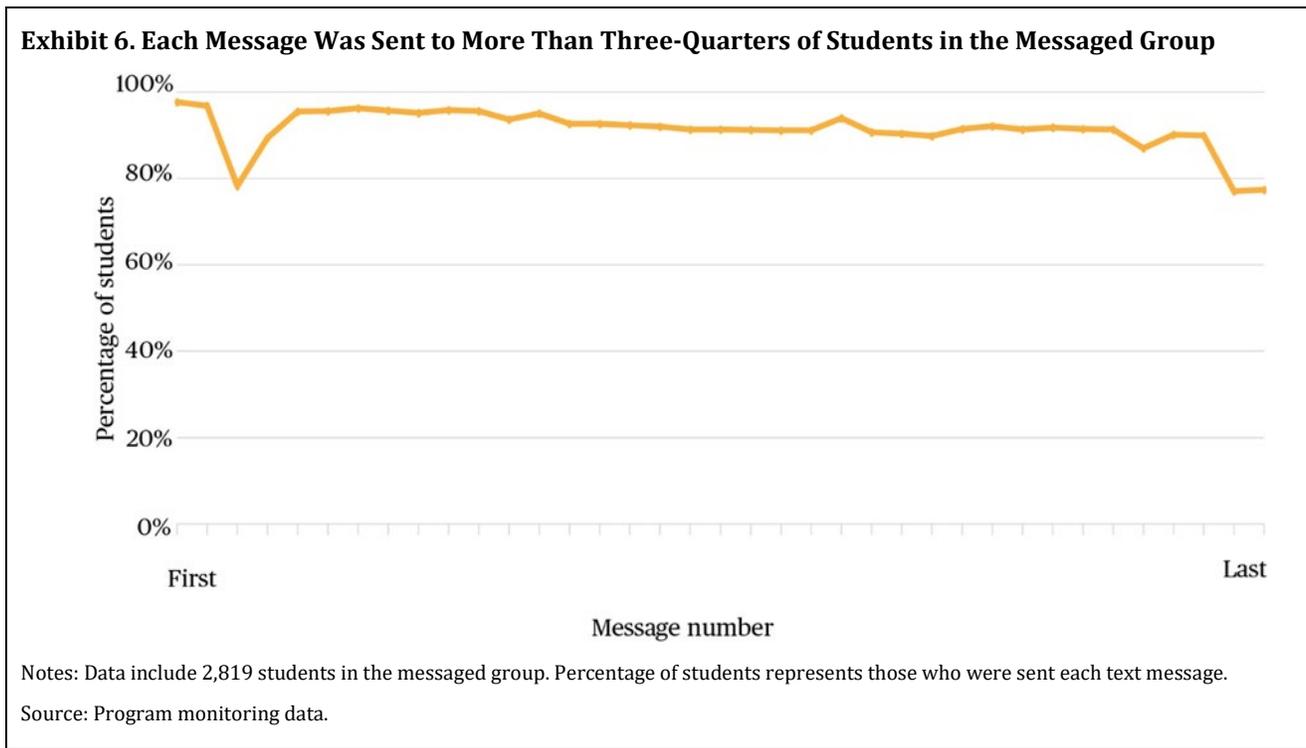
The study's college transition messaging was modeled on similar programs that demonstrated promise elsewhere, though only for certain groups of students. The study messaging expanded on those programs by adding positive mindset messages derived from other successful strategies and by extending the length of the advising into and through the first year of college. Examining how it was carried out may provide clues about why the outcomes of this study varied from earlier ones, and whether programs like it could be more helpful in the future.

- *The text messages were sent as planned.* One potential reason why college transition messaging might not be effective at increasing college going could be problems with the messaging system. If students in the message group were not sent the messages, then they would not have access to the intended advising.

However, in this study most messages were sent to most students. Each of the messages was sent to more than 75 percent of students (**Exhibit 6**).⁴⁰ The minor fluctuations in messages sent were due to students' opting out, phone numbers becoming invalid, and advisors tailoring which messages were sent to students based on their prior advising activities.⁴¹ For example, when advisors knew that a student had already completed a milestone, such as filing the FAFSA, the advisor could turn off the reminder message.⁴² This level of customization allowed the messages to be appropriate for each student's circumstances. Even when students' college plans changed, they were still sent some of the messages. For example, a reduced set of messages was sent to the 6 percent of students who changed their plans and indicated they were not going to start college during the period of the texting study or intended to start in the spring (rather than the fall).⁴³

Messages were not sent to a small set of students who opted out of the messaging (4 percent) and to those whose phone number was or became invalid (3 percent). The number of students who opted out or had an

invalid phone number is similar to other texting efforts.⁴⁴ Overall, 56 percent of the 2,819 students in the messaged group received the full set of 37 messages.



- Students were at least as responsive to the text messages as in other similar efforts, and back and forth communications occurred between students and advisors.* It is estimated that teenagers send and receive 30 text messages per day,⁴⁵ and text messages are becoming a more common channel for colleges to reach their students. Thus, it could be that students sent the study’s college transition text messages did not pay attention to the messages, were not interested in engaging with them, or were receiving similar messages from their colleges.

However, few of the colleges where the majority of students in the study enrolled provided systematic information to students through text messaging during the study period.⁴⁶ Therefore, colleges themselves appear to be an unlikely source of text overload for students in this study.

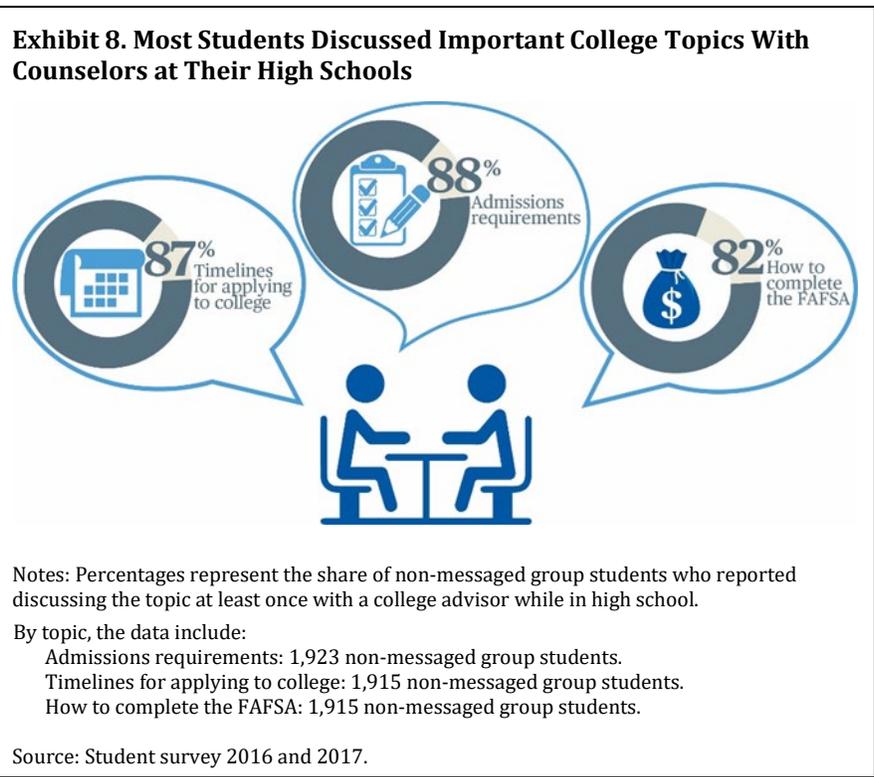
The study’s findings also suggest that students were responsive to the text messages and advisors engaged with them through this communication channel. Eighty-four (84) percent of students responded to a message at least once.⁴⁷ This rate of engagement is higher than that in most of the rigorous studies of text-message-based college advising conducted either before or subsequent to this study. To date, 14 rigorous studies have examined the impact of text-message-based college advising on students’ college enrollment or persistence. Of these studies, 12 reported detailed information on student engagement and, in all but one, the percentage of students who responded at least once was lower than found in this study.⁴⁸ On average, the GEAR UP students responded five times throughout the summer and school year.⁴⁹ It appears that students generally appreciated the information. Across messages, the most common words in students’ responses included “thank [you]” and “okay.” For example, common words in student responses to one of the programmed text messages about financial aid options are displayed in **Exhibit 7**.⁵⁰

percent of students in the study). But it is possible that the case load of colleges or students each advisor managed was too large to handle well or that advisors had too many competing job responsibilities.

- **GEAR UP students in both the messaged and non-messaged groups already had some awareness of key college topics as they left high school.** Students with knowledge about key college enrollment milestones and expectations once on campus may not benefit from the light-touch advising offered through text messages. Some prior research suggests that the students who benefit most from texts on college going milestones are those with limited access to college application and enrollment information.⁶⁰

Students in this study indicated that they had already laid some ground work for further education before any text messages were sent after high school. Across both students who received messages and those who did not, many reported they had already taken some key steps toward college enrollment: 94 percent of students had applied to college and 28 percent had paid a college deposit. Also, most students reported an awareness of the FAFSA, with 95 percent reporting that they planned to complete, or had already completed, the FAFSA as of May of their senior year.

Indeed, most GEAR UP students in both the messaged and non-messaged groups reported meeting with a college counselor or advisor to discuss a variety of topics related to the college application process, some of which were also covered in the messages, such as financial aid.⁶¹ Nationally, in the 2012-13 school year, 66 percent of low-income students who did not participate in a federal college access program met with a high school advisor to discuss college admission, compared to 88 percent of the GEAR UP students in the non-messaged group in this study (**Exhibit 8**).⁶² Similarly, only 56 percent of low-income students nationally who did not participate in a federal college access program discussed applying for financial aid with their high school advisor, whereas 82 percent of the students in the non-messaged group talked with high school staff about financial aid. The timing and question wording differed between this study and the national surveys. However, the results suggest that GEAR UP students might have had greater access to general information about college and a higher likelihood of meeting with a college advisor while in high school than expected by the study and more than students in other texting studies or their low-income peers nationally. This may have dampened the potential impact the message-based advising could have.



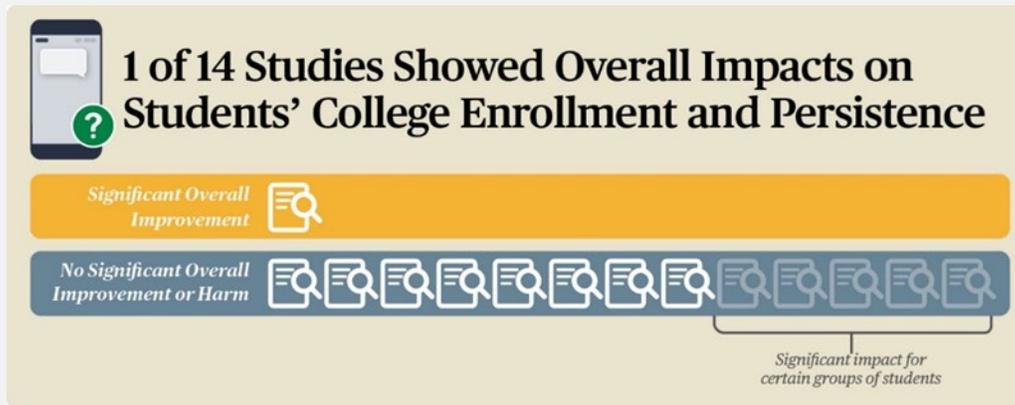
How this Study Contributes to the Accumulating Evidence about Text-Message-Based College Advising

Early studies of low-cost text-message-based advising generated enthusiasm because of their potential to help improve college access and affordability. This prompted the current study, as well as large-scale applications of text-message-based advising, such as efforts tied to the Common Application and from the College Board,⁶³ and other studies to better understand whether and in what contexts text-message-based advising could be effective. The activities mirrored broader interest in learning how to apply behavioral and psychological insights about what prompts people to make decisions and take actions to improve a wide range of local and federal programs.⁶⁴

More recent efforts suggest that text messaging is not a simple or consistent solution to help more college-intending students enroll and stay in college.⁶⁵ The accumulating evidence indicates that text-message-based advising is only effective in a small set of the situations in which it may be used.⁶⁶ This increasingly rich body of research, to which the current study contributes, raises some potential considerations for organizations interested in this approach:

- **Targeting of students.** Among 14 rigorous studies so far, only one has found positive effects on college enrollment or persistence for students overall (Exhibit 9).⁶⁷ In five of these studies there were positive effects for some groups of students, most often students with the least knowledge of college going. The GEAR UP students in this study seemed to be more knowledgeable about critical steps for college enrollment and success than assumed from the start. Future efforts that use text-message-based advising may be more likely to be effective if they focus on students with little access to college counseling and information on how to enroll and succeed in college.

Exhibit 9. Summary of Accumulating Evidence on the Effectiveness of Text-Message-Based Advising



Notes: Each icon represents a single study. The list of studies and more information on the impacts found in each are provided in Appendix Section C.3.

- **Targeting of messages to key barriers.** Text messages may not be sufficient to help students overcome the biggest challenges to getting into and staying in college. For example, college costs are often cited by students as a very important factor in their decision making.⁶⁸ Simply connecting students to the FAFSA may not be sufficient to improve enrollment and persistence, especially if students' financial aid needs are complex. Although this study's college transition messages included eight messages focused on affordability (of 37 messages in total), understanding loans and borrowing was not addressed. If affordability is the biggest barrier to college success then a text messaging program more narrowly focused on college costs and affordability might be most effective.
- **Providing in-depth college-specific information to advisors.** Every college has its own processes and organization, which could make it difficult for advisors not familiar with the college to provide useful guidance to students beyond information about deadlines and more generic college processes. Having advisors support students at only one or two colleges and providing the advisors with extensive training on each college could be beneficial.

This study underscores the importance of repeated replications to build an evidence base for an approach that initially shows promise. Researchers continue to adapt and adjust technology-based advising as new information emerges, because it remains a low-cost approach that feels like it holds promise for helping students.

ENDNOTES

- ¹ Arnold et al. 2009; Avery, Howell, and Page 2014; Castleman and Page 2014; Castleman, Page, and Schooley 2014.
- ² Carlstrom and Miller 2013. The median advisor-to-student ratio at community colleges is even higher, at 1 advisor to 441 students.
- ³ Arnold et al. 2009; Bettinger, Long, Oreopoulos, and Sanbonmatsu 2012; Castleman, Arnold, and Wartman 2012; Dynarski and Scott-Clayton 2006; Page and Scott-Clayton 2016; Roderick et al. 2008; Walton and Cohen 2011.
- ⁴ Castleman, Page, and Schooley 2014.
- ⁵ Nichols 2015.
- ⁶ Castleman and Page 2015, 2016; Castleman et al. 2017; Page, Castleman, and Meyer 2020.
- ⁷ Walton and Cohen 2011; Yeager, Walton, and Cohen 2013.
- ⁸ Serving low-income students is the focus of GEAR UP. The program funds projects across the country to prepare low-income students in middle and high school for college (<https://www2.ed.gov/programs/gearup/index.html>).
- ⁹ GEAR UP requires grantees to provide financial aid information; encouragement for enrollment in rigorous and challenging coursework; activities to increase high school graduation, college applications and college enrollment; and for state grantees only, scholarships to students enrolling in college (HEA 20 U.S.C. 1070a–24(a)). GEAR UP permits grantees to provide a wide array of services and activities such as mentoring, tutoring, academic and career counseling, rigorous courses such as Advanced Placement or International Baccalaureate, dual enrollment programs, college application assistance, financial literacy and counseling to students and parents, and staff development (HEA 20 U.S.C. 1070a–24(b)).
- ¹⁰ Author calculations based on GEAR UP 2017 Annual Performance Reports data.
- ¹¹ The Higher Education Act, as amended and reauthorized in 2008, allows GEAR UP grantees to provide services for seven years, “through the student’s first year of attendance at an institution of higher education” (20 U.S.C 1070a-21–1070a-28).
- ¹² West Virginia’s GEAR UP program was the first to attract attention and excitement among the GEAR UP community about the potential for text-message-based advising. The West Virginia GEAR UP program sponsored a text messaging program to support high school students transitioning into college (Castleman and Meyer 2020).
- ¹³ Grantees from the 2011 fiscal year and onward were eligible to apply for funding to extend services for a seventh year, which would allow them to support students through the year following high school. The study recruited grantees from the first cohort of grantees eligible to provide these seventh-year services.
- ¹⁴ All 80 GEAR UP grantees funded with fiscal year 2011 funds and serving 2015-16 or 2016-17 high school seniors were eligible to participate in the study. Of them, 16 volunteered. These 16 grantees served 282 high schools, of which 81 volunteered.
- ¹⁵ The study’s survey was administered during the spring of students’ senior year before messages were sent to any students. Students were asked whether they intended to enroll in college in the fall after high school. To be eligible for the study, students had to answer yes and to provide a cell phone number to enable the study to send at least one message to all students in the messaged group. Appendix Section B.1.1 provides more details on the study sample.
- ¹⁶ The lottery resulted in 2,819 students in the messaged group and 1,984 students in the non-messaged group. See Appendix Section B.1.2 for more details on the lottery process.
- ¹⁷ As expected, students in the messaged and non-messaged groups had similar characteristics before the lottery, except that students in the messaged group were about 2 percentage points more likely to be Hispanic and about 3 percentage points less likely to have taken one or more AP or IB courses (see Exhibit B.5 in Appendix B for details). This small set of differences is about what would be expected to occur by chance, given the number of characteristics examined. Even so, these differences were taken into account in the statistical models that estimate the impact of the college transition messaging. Appendix Section B.3.2 describes the study’s statistical model.

¹⁸ To determine whether the difference between groups was statistically meaningful, the study used a probability threshold (called the *p*-value) of .05, a level used by most researchers. Meeting this threshold means there is a 95 percent likelihood that the difference found was not due to chance. See Appendix B.3 for a more detailed description of the analyses that were conducted.

¹⁹ Immediate college enrollment was measured as enrollment on October 1 in the fall after students' expected high school graduation. Appendix Section B.3.1 contains more details on how the outcomes were measured.

²⁰ The study did not examine FAFSA completion for the first year after high school because many students completed the FAFSA for their first year while still enrolled in high school, prior to the beginning of the study.

²¹ The projected cost to grantees, should they choose to send college transition messages in the future, is \$15.00 per student. The per student cost was calculated as the total cost to access the message platform for 12 months divided by the number of students sent messages. Access to the message platform allowed for programming, sending, responding, and monitoring messages. Advisors' time to respond to students' messages or customize messages based on the colleges students attend is not considered a cost for the college transition messages because the GEAR UP advisors could shift how they spend their time to incorporate the addition of the messaging into their responsibilities, rather than hiring additional advisors.

²² Academic preparation and costs also can be hurdles to low-income and first-generation college students' success; however, the college transition messaging did not target either of these barriers. The timing of the college transition messaging was too late to substantially improve students' academic preparation because it began after high school ended. The college transition messaging included information about applying for and receiving financial aid but there was not a separate financial support component.

²³ Bettinger and Baker 2014; Castleman and Page 2015, 2016; Page, Castleman, and Meyer 2020; Oreopoulos and Petronijevic 2018; Walton and Cohen 2011; Yeager, Walton, and Cohen 2013.

²⁴ See Appendix A for more details about how the college transition messages were adapted and expanded as well as for details about pilot testing.

²⁵ The full content of the text messages can be found in Appendix Section A.1.

²⁶ See Appendix Section A.1.2 for additional details about the alignment of students' college intentions and actual enrollment.

²⁷ The timing and content of messages varied based on where students intended to and then enrolled in college. For example, the 3 percent of students who indicated that they were starting college in the spring (rather than the fall) received a pared-down set of messages starting later in the fall.

²⁸ Appendix Section A.2 provides more details on training for advisors.

²⁹ Additional analyses, known as sensitivity analyses, showed that these results were consistent even using alternative ways of measuring effectiveness. See Appendix Exhibit C.2 for results from the sensitivity analyses.

³⁰ Immediate college enrollment was measured as enrollment on October 1 in the fall after students' expected high school graduation.

³¹ National Center for Education Statistics 2017.

³² The exception was among students from rural high schools, for whom there was a statistically significant ($p < .05$) difference: students in the messaged group enrolled at higher rates (a positive "impact") than did students in the non-messaged group. Given the number of subgroups examined, however, these results may not reflect a real difference because conducting a large number of comparisons increases the likelihood of a result being due to chance. Subgroups explored include (1) first generation, (2) gender, (3) college intentions (four-year/two-year), (4) high school locale, and (5) high school FAFSA completion rate. See Appendix Section B.3.1 for more details on the subgroups explored and Appendix Exhibit C.1 for more details on the results of the subgroup analyses for immediate college enrollment.

³³ Continuous college enrollment takes into account both whether students enter college and whether they persist. It is defined as a record of whether or not a student was enrolled in any postsecondary institution following high school between July 1, 2016 and June 30, 2017 (for cohort 1) or July 1, 2017 and June 30, 2018 (for cohort 2) with a

break of less than five months. This definition aligns with measures of continuous enrollment used in other research. For example, Warburton, Bugarin, and Nuñez (2001) investigate how high school preparation could help first-generation college goers be prepared for and persist in college, defining continuous enrollment as having no breaks in enrollment of more than four months. Horn (2009) investigates whether community college students are on track to complete degrees, defining continuous enrollment as having no break in enrollment of five or more months. Continuous college enrollment into the second fall after high school is defined as a record of whether or not a student was enrolled in any postsecondary institution during the year after high school and enrollment is documented in a college on October 1, 2017 (cohort 1) or October 1, 2018 (cohort 2).

³⁴ Additional analyses, known as sensitivity analyses, showed that these results were consistent even using alternative methods of measuring the impact of the college transition messaging. See Appendix Exhibit C.6 for results from the sensitivity analyses.

³⁵ The one exception was a statistically significant ($p < .05$) negative impact for students from high schools with lower than average FAFSA completion rates; at these high schools, students in the messaged group were less likely to be continuously enrolled than were students in the non-messaged group. Given the number of subgroups examined, however, these impacts may not be real, because conducting a large number of comparisons increases the likelihood of a result being due to chance. See Appendix Exhibit C.5 for more details.

³⁶ Additional analyses, known as sensitivity analyses, showed that these results were consistent even using alternative ways of measuring effectiveness. See Appendix Exhibit C.8 for results from the sensitivity analyses.

³⁷ There were statistically significant ($p < .05$) negative impacts on FAFSA renewal for female students and students from non-rural high schools. Given the number of subgroups examined, however, these impacts may not be real, because conducting a large number of comparisons increases the likelihood of a result being due to chance. See Appendix Exhibit C.7 for more details.

³⁸ Additional analyses, known as sensitivity analyses, showed that these results were consistent even using alternative ways of measuring effectiveness. See Appendix Exhibit C.10 for results from the sensitivity analyses.

³⁹ There were statistically significant ($p < .05$) positive impacts on continuous enrollment into the second fall for male students and students from rural high schools. Given the number of subgroups examined, however, these impacts may not be real because conducting a large number of comparisons increases the likelihood of a result being due to chance. See Appendix Exhibit C.9 for more details.

⁴⁰ Almost all students (99.6 percent) were sent at least one programmed message.

⁴¹ Advisors excluded some specific messages from being sent to 17 percent of students, based on their understanding of these students' needs.

⁴² This particular example explains the dip in the percentage of students who received the fourth message, which was a reminder about submitting the FAFSA. One grantee turned off this message for all of its students because it knew the students had already submitted the FAFSA.

⁴³ Students who reported that they planned to delay enrollment until the spring semester were sent a reduced set of messages in the fall semester. These messages included reminders about completing the FAFSA for the spring term, registering for courses, attending orientation if offered, and paying tuition. During the spring semester, they were then sent some of the mindset messages they missed during the fall semester and were also sent the same spring messages as students who enrolled in the fall.

⁴⁴ The opt-out rate in this study is similar to that in other text messaging studies (Castleman and Meyer 2020; Castleman and Page 2016; Page, Castleman, and Meyer 2020).

⁴⁵ Lenhart 2015.

⁴⁶ By 2016, text messaging was becoming a more common channel to reach college-age students. To determine whether students in the study might be receiving similar information via text messaging from their college, the study systematically reviewed college websites and called college student support offices. This review documented that only three of the 33 colleges enrolling at least 25 study students provided systematic information to students through text messaging.

⁴⁷ Wrong number responses and opt-outs are not included in the percentage of students replying at least once.

⁴⁸ The exception was Page and Gehlbach (2017), which had a slightly higher percentage of students respond to at least one text message (85 percent, compared to 84 percent in this study). Two of the prior studies – by Phillips and Reber (2018) and Dobronyi, Oreopoulos, and Petronijevic (2019) – did not report the percentage of students who responded to at least one message, though Dobronyi and colleagues note that they did not prompt students to respond to the messages and few students did respond. The remaining 11 studies with lower percentages of students responding to at least one message than in this study are by Avery et al. (2020); Bird et al. (2019); Castleman and Page (2015, 2016, 2017); Castleman and Meyer (2020); Castleman et al. (2017); Mabel, Castleman, and Bettinger (2017); Oreopoulos, Patterson, Petronijevic, and Pope (2019); Page, Castleman, and Meyer (2020); and Page, Sacerdote, Goldrick-Rab, and Castleman (2019).

⁴⁹ On average, students were sent 34 of the 37 programmed text messages.

⁵⁰ The word cloud was created using students' responses to the advisor text message shown in the graphic. A standard list of the most common words in the English language (such as *a*, *and*, *but*, *I*) was consulted to remove these words from the responses because their ubiquity in all communication suggests these words have little value in understanding students' interactions with advisor messages. The remaining words that appeared at least 10 times across all students' responses were used to create the word cloud. The size of each word is proportional to the number of times it was used in student responses.

⁵¹ In addition to continuing the conversation via text, advisors always had the option to call a student or schedule an in-person appointment if they thought that would be best. Therefore, the data on student responses likely undercount the level of interaction between advisors and students.

⁵² Advisors sent replies to almost all (96 percent) of the subset of students who responded to a message.

⁵³ Most often, students were sent four non-programmed messages from their advisor.

⁵⁴ This information about the regular college transition activities provided to both the messaged and non-messaged group was obtained from staff in 11 of the 16 study grantees, at the time transition services were provided. The study did not collect systematic information from students about the specific services they received in the year after high school.

⁵⁵ Bird et al. 2019; Page et al. 2019; Avery et al. 2020.

⁵⁶ Other advisors were located at the GEAR UP grantee central offices and local colleges. Information about advisor backgrounds came from the study's "welcome calls." The welcome calls occurred in the spring before the advising began and collected information about each advisor's location, current position, years of experience in current position, advising experience, texting experience, and existing relationship with the students. Calls were not able to be conducted with 17 of the 125 advisors. Of the 80 advisors who were located at high schools, 57 had been employed at the high school for at least one year prior to the start of the study.

⁵⁷ See Appendix Exhibits C.13 through C.16 for more details about how the effects of text-message-based advising varied across GEAR UP grantees.

⁵⁸ Castleman and Page 2015, 2016, 2017; Oreopoulos et al. 2019; Oreopoulos, Petronijevic, Logel, and Beattie 2020.

⁵⁹ Conversation with West Virginia's GEAR UP program director as part of the study's advisory panel.

⁶⁰ Castleman and Page 2015.

⁶¹ Results shown in Exhibit 8 are for the non-messaged group, as the reference group, but were exactly the same for the messaged group. The study's survey was administered to high school seniors in either spring 2016 (cohort 1) or spring 2017 (cohort 2). The survey asked students the following question: "Since the beginning of last school year, that is, your junior year, how many times have you discussed the following topics with a college counselor/advisor at your high school: (a) College graduation rates, employment rates, and/or other student outcomes at different colleges; (b) Admissions requirements (such as SAT/ACT scores, transcripts, and letters of recommendation) for different types of colleges; (c) Timelines for applying to college; (d) How to complete the Common Application; (e) Your family's options for paying for college; (f) How much you and your family will have to pay for college if you get financial aid; (g) How to complete the FAFSA form; (h) Colleges that would be a good fit for you based on your grades, resources, and interests." Results for all students surveyed, which include students not eligible for the text-

message-based advising study because they did not plan to enroll in college after high school, are shown in Appendix Exhibit E.2.

⁶² The national estimates come from questions on the U.S. Department of Education’s High School Longitudinal Study Survey that asked students, “Did you meet one-on-one with a high school counselor in the 2012-2013 school year [12th grade] about gaining admission to a college or university?” and “Did you meet one-on-one with a high school counselor in the 2012-2013 school year [12th grade] about applying for financial aid?”

⁶³ For more information about the text-based advising offered by the Common Application see <https://www.commonapp.org/college-advising>, and for information about the College Board’s texting program, see <https://go.collegeboard.org/opportunity-scholarships-student-email-text-message-notifications>.

⁶⁴ Executive Office of the President, National Science and Technology Council 2015.

⁶⁵ Avery et al. 2020; Bird et al. 2019; Castleman and Page 2015, 2016, 2017; Castleman and Meyer 2020; Castleman et al. 2017; Dobronyi et al. 2019; Mabel et al. 2017; Oreopoulos et al. 2019; Page et al. 2020; Page and Gehlbach 2017; Page et al. 2019; Phillips and Reber 2018.

⁶⁶ For example, Page, Lee, and Gehlbach (2020) found that text-message-based outreach was most effective for discrete, time-sensitive, administrative tasks. Similarly, across many studies over a five-year period, Oreopoulos and Petronijevic (2019) found that text-message-based campaigns improved some outcomes, such as students’ study time, but did not significantly change any academic outcomes.

⁶⁷ Rather than relying on a single study to understand whether text messaging works, an analysis that combines evidence from this study with relevant information from prior studies (known in statistics as a Bayesian analysis) shows that there is a very high probability that college transition messaging has a small, positive effect on immediate college enrollment and a very low probability that college transition messaging increases immediate college enrollment by more than 2 or 3 percentage points. This analysis uses results from seven of the 14 prior studies shown in Exhibit 9. All studies from this exhibit that examined immediate college enrollment as an outcome are included in the Bayesian analysis, discussed in detail in Appendix D.

⁶⁸ LaFave, Kelly, and Ford 2018.

REFERENCES

- Arnold, K., Fleming, S., DeAnda, M., Castleman, B., and Wartman, K.L. (2009). The Summer Flood: The Invisible Gap Among Low-Income Students. *Thought & Action*, 25: 23-34.
- Avery, C., Castleman, B.L., Hurwitz, M., Long, B.T., and Page, L.C. (2020). *Digital Messaging to Improve College Enrollment and Success*. (NBER Working Paper 27897). Cambridge, MA: National Bureau of Economic Research.
- Avery, C., Howell, J., and Page, L. (2014). *A Review of the Role of College Counseling, Coaching, and Mentoring on Students' Postsecondary Outcomes*. New York: College Board Research.
- Bettinger, E.P., and Baker, R.B. (2014). The Effects of Student Coaching: An Evaluation of a Randomized Experiment in Student Advising. *Educational Evaluation and Policy Analysis*, 36(1): 3-19.
- Bettinger, E.P., Long, B.T., Oreopoulos, P., and Sanbonmatsu, L. (2012). The Role of Application Assistance and Information in College Decisions: Results from the H&R Block FAFSA Experiment. *Quarterly Journal of Economics*, 127(3): 1205-1242.
- Bird, K.A., Castleman, B.L., Denning, J.T., Goodman, J., Lambertson, C., and Rosinger, K.O. (2019). Nudging at Scale: Experimental Evidence from FAFSA Completion Campaigns (NBER Working Paper 26158). Cambridge, MA: National Bureau of Economic Research.
- Carlstrom, A., and Miller, M.A. (Eds.). (2013). *NACADA National Survey of Academic Advising* (Monograph No. 25). Manhattan, KS: National Academic Advising Association.
- Castleman, B.L., Arnold, K., and Wartman, K.L. (2012). Stemming the Tide of Summer Melt: An Experimental Study of the Effects of Post-High School Summer Intervention on Low-Income Students' College Enrollment. *Journal of Research on Educational Effectiveness*, 5(1): 1-17.
- Castleman, B.L., and Meyer, K.E. (2020). Can Text Message Nudges Improve Academic Outcomes in College? Evidence From a West Virginia Initiative. *The Review of Higher Education*, 43(4): 1125-1165.
- Castleman, B.L., Meyer, K., Sullivan, Z., Hartog, W.D., and Miller, S. (2017). Nudging Students Beyond FAFSA: The Impact of University Outreach on Financial Aid Behaviors and Outcomes. *Journal of Student Financial Aid*, 47(3): 4-27.
- Castleman, B.L., and Page, L.C. (2014). A Trickle or a Torrent? Understanding the Extent of Summer "Melt" Among College-Intending High School Graduates. *Social Science Quarterly*, 95(1): 202-220.
- Castleman, B.L., and Page, L.C. (2015). Summer Nudging: Can Personalized Text Messages and Peer Mentor Outreach Increase College Going Among Low-Income High School Graduates? *Journal of Economic Behavior & Organization*, 115: 144-160.
- Castleman, B.L., and Page, L.C. (2016). Freshman Year Financial Aid Nudges: An Experiment to Increase FAFSA Renewal and College Persistence. *Journal of Human Resources*, 51(2): 389-415.
- Castleman, B.L., and Page, L.C. (2017). Parental Influences on Postsecondary Decision Making: Evidence From a Text Messaging Experiment. *Educational Evaluation and Policy Analysis*, 39(2): 361-377.
- Castleman, B.L., Page, L.C., and Schooley, K. (2014). The Forgotten Summer: Does the Offer of College Counseling After High School Mitigate Summer Melt Among College-Intending, Low-Income High School Graduates? *Journal of Policy Analysis and Management*, 33(2): 320-344.
- Dobronyi, C.R., Oreopoulos, P., and Petronijevic, U. (2019). Goal Setting, Academic Reminders, and College Success: A Large-Scale Field Experiment. *Journal of Research on Educational Effectiveness*, 12(1): 38-66.
- Dynarski, S.M., and Scott-Clayton, J.E. (2006). The Cost of Complexity in Federal Student Aid: Lessons from Optimal Tax Theory and Behavioral Economics. *National Tax Journal*, 59(2): 319-356.
- Executive Office of the President, National Science and Technology Council. (2015). *Social and Behavioral Sciences Team Annual Report*. Washington, DC: Office of Science and Technology Policy.
<https://sbst.gov/download/2015%20SBST%20Annual%20Report.pdf>

- Horn, L. (2009). *On Track to Complete? A Taxonomy of Beginning Community College Students and Their Outcomes 3 Years After Enrolling: 2003-04 Through 2006*. Washington, DC: National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education.
- LaFave, A., Kelly, E., and Ford, J. (2018). *Factors that Influence Student College Choice*. Washington, DC: National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2019119>
- Lenhart, A. (2015). *Teens, Social Media, Technology Overview 2015*. Washington, DC: The Pew Research Center. <https://www.pewinternet.org/2015/04/09/teens-social-media-technology-2015/#fn-13190-2>
- Mabel, Z., Castleman, B., and Bettinger, E. (2017). *Finishing the Last Lap: Experimental Evidence on Strategies to Increase College Completion for Students at Risk of Late Departure*. <https://ssrn.com/abstract=3054765>
- National Center for Education Statistics. (2017). *Digest of Education Statistics*. Washington, DC. https://nces.ed.gov/programs/digest/d17/tables/dt17_302.30.asp
- Nichols, A.H. (2015). *The Pell Partnership: Ensuring a Shared Responsibility for Low-Income Student Success*. Washington, DC: Education Trust.
- Oreopoulos, P., Patterson, R.W., Petronijevic, U., and Pope, N.G. (2019). *When Studying and Nudging Don't Go as Planned: Unsuccessful Attempts to Help Traditional and Online College Students* (NBER Working Paper 25036). Cambridge, MA: National Bureau of Economic Research.
- Oreopoulos, P., and Petronijevic, U. (2018). Student Coaching: How Far Can Technology Go? *Journal of Human Resources*, 53(2): 299-329.
- Oreopoulos, P., and Petronijevic, U. (2019). *The Remarkable Unresponsiveness of College Students to Nudging and What We Can Learn from It* (NBER Working Paper 26059). Cambridge, MA: National Bureau of Economic Research.
- Oreopoulos, P., Petronijevic, U., Logel, C., and Beattie, G. (2020). Improving Non-Academic Student Outcomes Using Online and Text-Message Coaching. *Journal of Economic Behavior & Organization*, 171(March): 342-360.
- Page, L.C., Castleman, B., and Meyer, K. (2020). Customized Nudging to Improve FAFSA Completion and Income Verification. *Educational Evaluation and Policy Analysis*, 42(1): 3-21.
- Page, L.C., and Gehlbach, H. (2017). How an Artificially Intelligent Virtual Assistant Helps Students Navigate the Road to College. *AERA Open*, 3(4): 1-12.
- Page, L.C., Lee, J., and Gehlbach, H. (2020). *Conditions Under Which College Students Can Be Responsive to Nudging* (EdWorkingPaper 20-242). Providence, RI: Annenberg Institute at Brown University. <https://doi.org/10.26300/yjfs-kv29>
- Page, L., Sacerdote, B., Goldrick-Rab, S., and Castleman, B. (2019). *Financial Aid Nudges: A National Experiment with Informational Interventions* (Hope Center for College, Community, and Justice Working Paper 3). Philadelphia, PA: Hope Center for College, Community, and Justice at Temple University.
- Page, L.C., and Scott-Clayton, J. (2016). Improving College Access in the United States: Barriers and Policy Responses. *Economics of Education Review*, 51: 4-22.
- Phillips, M., and Reber, S. (2018). *When "Low Touch" Is Not Enough: Evidence from a Random Assignment College Access Field Experiment* (PWP-CCPR-2018-008). Los Angeles: California Center for Population Research, University of California – Los Angeles.
- Roderick, M., Nagaoka, J., Coca, V., Moeller, E., Roddie, K., Gilliam, J., and Patton, D. (2008). *From High School to the Future: Potholes on the Road to College*. Chicago, IL: The University of Chicago Consortium on Chicago School Research.
- Walton, G., and Cohen, G. (2011). A Brief Social-Belonging Intervention Improves Academic and Health Outcomes of Minority Students. *Science*, 331: 1447-1451.

- Warburton, E.C., Bugarin, R., and Nuñez, A.M. (2001). *Bridging the Gap: Academic Preparation and Postsecondary Success of First-Generation Students*. Washington, DC: National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education.
- Yeager, G., Walton, G., and Cohen, G. (2013). Addressing Achievement Gaps With Psychological Interventions. *Kappa*, 94: 62-65.
- Yeager, D.S., Hanselman, P., Walton, G.M., Murray, J.S., Crosnoe, R., Muller, C., and Dweck, C.S. (2019). A National Study Reveals Where a Growth Mindset Improves Achievement. *Nature*. Available at: <https://www.nature.com/articles/s41586-019-1466-y>

ACKNOWLEDGEMENTS

We gratefully acknowledge the contributions of many individuals in conducting the study and producing the report.

We appreciate the efforts of the GEAR UP grantees, high schools, advisors, and students who participated in the data collection for this study. Input from the National Council for Community and Education Partnerships (NCCEP) during the study's planning phase was invaluable. Benjamin Castleman and Chris Hulleman of the University of Virginia provided essential guidance about adapting text messages used in prior research, including adapting growth mindset content to be delivered via text message.

We were fortunate to have the advice of our expert technical working group members: Peter Bergman, Columbia University; Denise Gorsline, Minnesota State University, Moorhead; Adam Green, East Tennessee State University; Michal Kurlaender, University of California, Davis; Philip Oreopoulos, University of Toronto; Lesley Turner, Vanderbilt University; and Vivian Wong, University of Virginia.

The report would not have been possible without the contributions of many staff at Abt Associates, Program and Policy Insight (PPI), and Survey Research Management (SRM). At Abt, we thank Kaitlyn Bimberg, Amy Checkoway, I-Fang Cheng, Sarah Costelloe, Brian Freeman, Marissa Hashizume, Emilie Kahn-Boesel, Kelly Lack, Jackie Mendez, Tyler Morrill, Bry Pollack, Cristopher Price, and Anne Wolf. We also thank our colleagues Jennifer Ash, Samantha Burke, Kristen Cummings, Emily Dastrup, Hayley Didriksen, Will Huguenin, Jeff Lambart, Arturo Nava, Rob Olsen, Marissa Personette, David Robinson, Lisa Setrakian, Djaniele Taylor, and Daniel Weiss. At PPI, we thank Kendra Lodewick and Kari Parsons. At SRM, we thank Linda Kuhn and Betsy Rowe.

DISCLOSURE OF POTENTIAL CONFLICT OF INTEREST

The research team for this evaluation included staff from Abt Associates and subcontractors Mathematica, Survey Research Management (SRM), and Program and Policy Insight (PPI). None of the research team members has financial interests that could be affected by findings from the evaluation of College Transition Messaging in GEAR UP. No one on the seven-member technical working group, convened by the research team twice to provide advice and guidance, has financial interests that could be affected by findings from the evaluation.