



De Anza College

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# THE HEALTHY MINDS STUDY

2021 Winter/Spring Data Report

# ABOUT THE HEALTHY MINDS STUDY (HMS)

## STUDY TEAM

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# TABLE OF CONTENTS

STUDY PURPOSE	1
STUDY DESIGN	1
ABOUT THIS REPORT	2
KEY FINDINGS	3
SAMPLE CHARACTERISTICS	4
PREVALENCE OF MENTAL HEALTH PROBLEMS	5
HEALTH BEHAVIORS AND LIFESTYLE	7
ATTITUDES AND BELIEFS ABOUT MENTAL HEALTH SERVICES	8
USE OF SERVICES	9
REFERENCES	11
APPENDIX: DESCRIPTIVE STATISTICS FOR SURVEY ITEMS	12

# STUDY PURPOSE

The Healthy Minds Study provides a detailed picture of mental health and related issues in college student populations. Schools typically use their data for some combination of the following purposes: to identify needs and priorities; benchmark against peer institutions; evaluate programs and policies; plan for services and programs; and advocate for resources.

# STUDY DESIGN

The Healthy Minds Study is designed to protect the privacy and confidentiality of participants. HMS is approved by Advarra. To further protect respondent privacy, the study is covered by a Certificate of Confidentiality from the National Institutes of Health.

# SAMPLING

Each participating school provides the HMS team with a sample of currently enrolled students over the age of 18, either randomly selected or their entire student population. Schools with graduate students typically include both undergraduates and graduate students in the sample.

# DATA COLLECTION

HMS is a web-based survey. Students are invited and reminded to participate in the survey via emails, which are timed to avoid, if at all possible, the first two weeks of the term, the last week of the term, and any major holidays. The data collection protocol begins with an email invitation, and non-responders are contacted up to three times by email reminders. Reminders are only sent to those who have not yet completed the survey. Each communication contains a URL that students use to gain access to the survey.

# NON-RESPONSE ANALYSIS

A potential concern in any survey study is that those who respond to the survey will not be fully representative of the population from which they are drawn. In the HMS, we can be confident that those who are invited to fill out the survey are representative of the full student population because these students are randomly selected from the full list of currently enrolled students. However it is still possible that those who actually complete the survey are different in important ways from those who do not complete the survey. The overall participation rate for the Winter 2021 study was 13%. It is important to raise the question of whether the 13% who participated are different in important ways from the 87% who did not participate. We address this issue by constructing non-response weights using administrative data on full student populations. Most of the 102 schools in the Winter 2021 HMS were able to provide administrative data about all randomly selected students. The analysis of these administrative data, separated from any identifying information, was approved in the IRB application at Advarra and at each participating school. We used the following variables, when available, to estimate which types of students were more or less likely to respond: gender, race/ethnicity, academic level, and grade point average. We used these variables to estimate the response propensity of each type of student (based on multivariate logistic regressions), and then assigned response propensity weights to each student who completed the survey. The less likely a type of student was to complete the survey, the larger the weight they received in the analysis, such that the weighted estimates are representative of the full student population in terms of the administrative variables available for each institution. Finally, note that these sample weights give equal aggregate weight to each school in the national estimates. An alternative would have been to assign weights in proportion to school size, but we decided that we did not want our overall national estimates to be dominated by schools in our sample with very large enrollments.

# ABOUT THIS REPORT

This data report provides descriptive statistics (percentages, mean values, etc.) from the sample of respondents at your institution for a set of key measures. In addition to the key measures highlighted in this report, an appendix is also included with descriptive statistics for each survey item (see below).

## APPENDIX

The appendix includes values for most measures in the three standard survey modules that are administered on all participating campuses: Demographics, Mental Health Status, and Mental Health Services Utilization/Help-Seeking. For each measure, the data tables display the following information: the value table for your institution, the 95% confidence interval for your institution's value, the value for the national sample, and an indicator if your institution's value is significantly higher or lower than the national value. All values in the appendix have been weighted to be representative of the full student populations to which they refer (see Non-response Analysis). Also note that for some measures, respondents were allowed to check more than one response category (e.g., they might have gone to more than one type of provider for mental health services), so the percentages sometimes add up to more than 100% across response categories. The 95% confidence intervals give a sense of how much uncertainty there is about each estimated value. This uncertainty exists because our estimates are based only on a random sample of students, rather than a complete census of the student population. However, some schools that had less than 4,000 students (the typical requested sample size), provided their entire population. For consistency sake, these schools were not treated any differently than those schools that provided a 4,000 student sample of their full population. Essentially, the confidence interval tells us that there is a 95% probability that the true population value is within this particular range. Because both the school-level and national values are only estimates based on random sampling, we cannot say for certain that your institution's true value is above or below the national value. But in cases where we can say that there is a 95% or higher statistical probability that your institution's value is higher or lower than the national value, we indicate this.

## EXPLORING YOUR DATA FURTHER

There are two options for exploring your data beyond what is in this report. First, you can use statistical software (e.g., SPSS, Stata, etc.) to analyze the full data set for your students, which has been provided to your school. Second, you will be able to log on to a user-friendly website with drop-down menus, at [data.healthymindsnetwork.org](http://data.healthymindsnetwork.org).

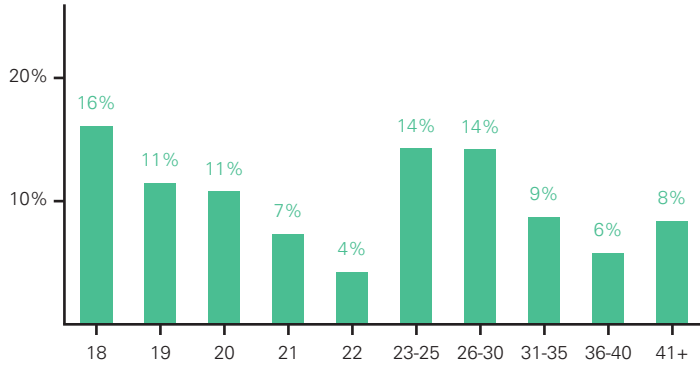
# KEY FINDINGS

This section offers a quick look at results that may be of special interest to your institution.

Estimated values of selected measures for De Anza College	Percentage of students
Major depression (positive PHQ-9 screen)	24%
Depression overall, including major and moderate (positive PHQ-9 screen)	44%
Anxiety disorder (positive GAD-7 screen)	34%
Eating disorder (positive SCOFF screen)	14%
Non-suicidal self-injury (past year)	23%
Suicidal ideation (past year)	18%
Lifetime diagnoses of mental disorders	34%
Psychiatric medication (past year)	15%
Mental health therapy/counseling (past year)	23%
Any mental health therapy/counseling and/or psychiatric medication among students with positive depression or anxiety screens (past year)	40%
Personal stigma: agrees with "I would think less of someone who has received mental health treatment."	13%
Perceived public stigma: agrees with "Most people would think less of someone who has received mental health treatment."	57%

# SAMPLE CHARACTERISTICS (N=743)

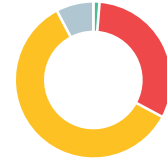
**Age (years)**



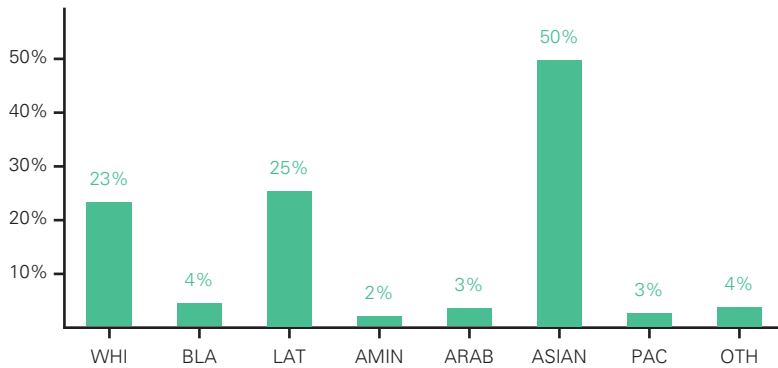
**Gender**



**Living arrangement**

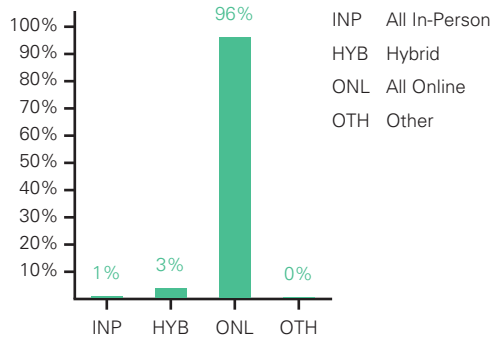


**Race/ethnicity**



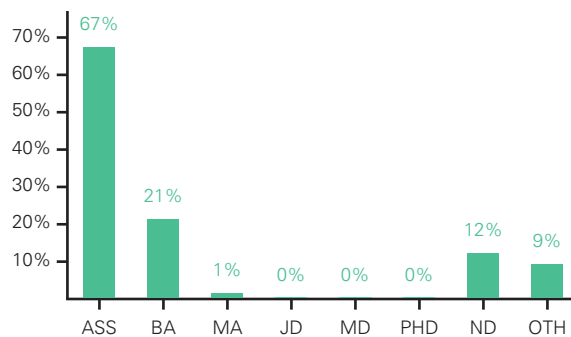
- WHI White or Caucasian
- BLA African American/Black
- LAT Hispanic/Latino
- AMIN American Indian/Alaskan Native
- ARAB Arab/Middle Eastern or Arab American
- ASIAN Asian/Asian American
- PAC Pacific Islander
- OTH Other

**Class Format**



- INP All In-Person
- HYB Hybrid
- ONL All Online
- OTH Other

**Degree program**



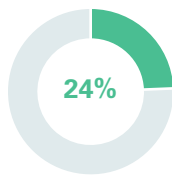
- ASS Associate's degree
- BA Bachelor's degree
- MA Master's degree
- JD JD
- MD MD
- PHD PhD or equivalent
- ND Non-degree student
- OTH Other

# PREVALENCE OF MENTAL HEALTH PROBLEMS

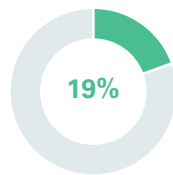
## DEPRESSION SCREEN

Depression is measured using the Patient Health Questionnaire-9 (PHQ-9), a nine-item instrument based on the symptoms provided in the Diagnostic and Statistical Manual for Mental Disorders for a major depressive episode in the past two weeks (Spitzer, Kroenke, & Williams, 1999). Following the standard algorithm for interpreting the PHQ-9, symptom levels are categorized as severe (score of 15+), moderate (score of 10-14), or mild/minimal (score <10).

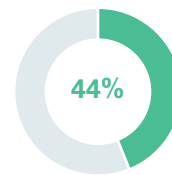
Severe depression



Moderate depression



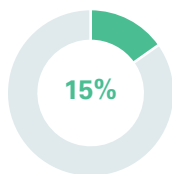
Any depression



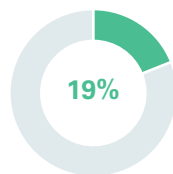
## ANXIETY SCREEN

Anxiety is measured using the GAD-7, a seven-item screening tool for screening and severity measuring of generalized anxiety disorder in the past two weeks (Spitzer, Kroenke, Williams, & Lowe, 2006). Following the standard algorithm for interpreting the GAD-7, symptom levels are categorized as severe anxiety, moderate anxiety, or neither.

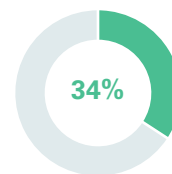
Severe anxiety



Moderate anxiety



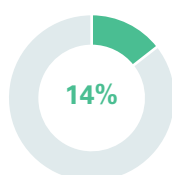
Any anxiety



## EATING DISORDER SCREEN

Eating disorders are measured using the written U.S. version of the SCOFF, a five-item screening tool designed to identify subjects likely to have an eating disorder (Morgan, Reid, & Lacey, 1999).

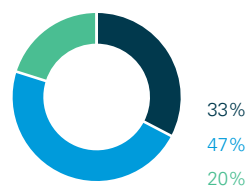
Eating disorders



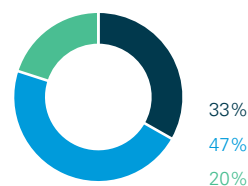
## LONELINESS

How often do you feel...

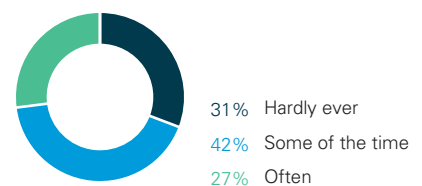
lack companionship



left out



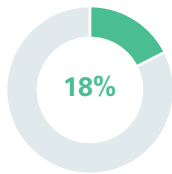
isolated from others



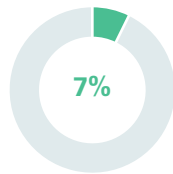


## SUICIDALITY AND SELF-INJUROUS BEHAVIOR

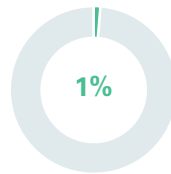
Suicidal ideation (past year)



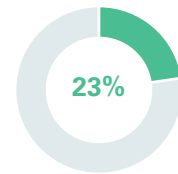
Suicide plan (past year)



Suicide attempt (past year)



Non-suicidal self-injury (past year)



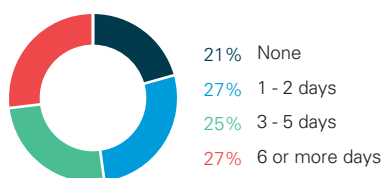
## LIFETIME DIAGNOSES OF MENTAL DISORDERS

Have you ever been diagnosed with any of the following conditions by a health professional (e.g. primary care doctor, psychiatrist, psychologist, etc.)? (Select all that apply)

24%	Depression or other mood disorders (e.g., major depressive disorder, persistent depressive disorder)
3%	Bipolar (e.g., bipolar I or II, cyclothymia)
23%	Anxiety (e.g., generalized anxiety disorder, phobias)
3%	Obsessive-compulsive or related disorders (e.g., obsessive-compulsive disorder, body dysmorphia)
7%	Trauma and Stressor Related Disorders (e.g., posttraumatic stress disorder)
4%	Neurodevelopmental disorder or intellectual disability (e.g., attention deficit disorder, attention deficit hyperactivity disorder, intellectual disability, autism spectrum disorder)
3%	Eating disorder (e.g., anorexia nervosa, bulimia nervosa)
1%	Psychosis (e.g., schizophrenia, schizo-affective disorder)
1%	Personality disorder (e.g., antisocial personality disorder, paranoid personality disorder, schizoid personality disorder)
2%	Substance use disorder (e.g., alcohol abuse, abuse of other drugs)
66%	No, none of these

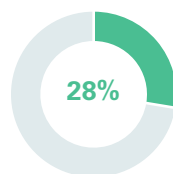
## ACADEMIC IMPAIRMENT

In the past 4 weeks, how many days have you felt that emotional or mental difficulties have hurt your academic performance?



## POSITIVE MENTAL HEALTH

Positive mental health



Positive mental health (psychological well-being) is measured using The Flourishing Scale, an eight-item summary measure of the respondent's self-perceived success in important areas such as relationships, self-esteem, purpose, and optimism (Diener, Wirtz, Tov, Kim-Prieto, Choi, Oishi, & Biswas-Diener, 2009). The score ranges from 8-56, and we are using 48 as the threshold for positive mental health.

# HEALTH BEHAVIORS AND LIFESTYLE

## Drug use

Over the past 30 days, have you used any of the following drugs? (Select all that apply)

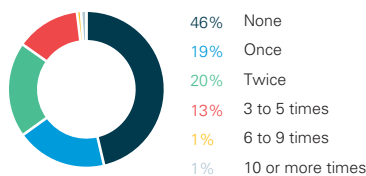
19%	Marijuana
1%	Cocaine (any form, including crack, powder, or freebase)
0%	Heroin
0%	Opioid pain relievers (such as Vicodin, OxyContin, Percocet, Demerol, Dilaudid, codeine, hydrocodone, methadone, morphine) without a prescription or more than prescribed
0%	Benzodiazepenes
0%	Methamphetamines (also known as speed, crystal meth, or ice)
1%	Other stimulants (such as Ritalin, Adderall) without a prescription or more than prescribed
0%	MDMA (also known as Ecstasy or Molly)
0%	Ketamine (also known as K, Special K)
1%	LSD (also known as acid)
1%	Psilocybin (also known as magic mushrooms, boomers, shrooms)
0%	Kratom
0%	Athletic performance enhancers (anything that violates policies set by school or any athletic governing body)
1%	Other drugs without a prescription
79%	No, none of these

## Binge drinking

The following questions ask about how much you drink. A "drink" means any of the following:

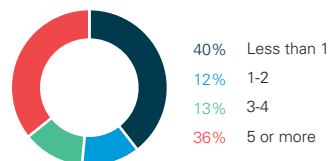
- A 12-ounce can or bottle of beer
- A 4-ounce glass of wine
- A shot of liquor straight or in a mixed drink

During the last two weeks, how many times have you had 4 (female), 5 (male), 4 or 5 (other gender) or more drinks in a row? (among those with any alcohol use)



## Exercise

In the past 30 days, about how many hours per week on average did you spend exercising? (include any exercise of moderate or higher intensity, where "moderate intensity" would be roughly equivalent to brisk walking or bicycling)

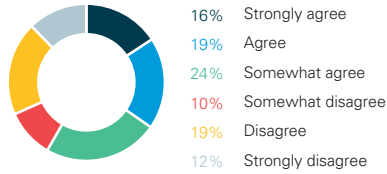


# ATTITUDES AND BELIEFS ABOUT MENTAL HEALTH SERVICES

## KNOWLEDGE

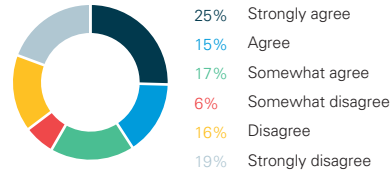
### Knowledge of campus mental health resources

If I needed to seek professional help for my mental or emotional health, I would know where to go to access resources from my school.



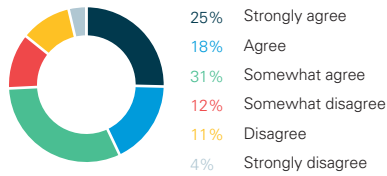
### Perceived need (past year)

In the past 12 months, I needed help for emotional or mental health problems such as feeling sad, blue, anxious or nervous.



### Perceived need (current)

I currently need help for emotional or mental health problems such as feeling sad, blue, anxious or nervous.



## SCHOOL CLIMATE

### Anti-racism

I believe my school actively works towards combating racism within the campus community.



89% Agree

# USE OF SERVICES

## Psychotropic medication use, all students (past year)

In the past 12 months have you taken any of the following types of medications? Please count only those you took, or are taking, several times per week. (Select all that apply)

2%	Psychostimulants (e.g., methylphenidate (Ritalin, or Concerta), amphetamine salts (Adderall), dextroamphetamine (Dexedrine), etc.)
9%	Anti-depressants (e.g., fluoxetine (Prozac), sertraline (Zoloft), paroxetine (Paxil), escitalopram (Lexapro), venlafaxine (Effexor), bupropion (Wellbutrin), etc.)
1%	Anti-psychotics (e.g., haloperidol (Haldol), clozapine (Clozaril), risperidone (Risperdal), olanzapine (Zyprexa), etc.)
4%	Anti-anxiety medications (e.g., lorazepam (Ativan), clonazepam (Klonopin), alprazolam (Xanax), buspirone (BuSpar), etc.)
2%	Mood stabilizers (e.g., lithium, valproate (Depakote), lamotrigine (Lamictal), carbamazepine (Tegretol), etc.)
4%	Sleep medications (e.g., zolpidem (Ambien), zaleplon (Sonata), etc.)
3%	Other medication for mental or emotional health
85%	None

## Psychotropic medication use among students with positive depression or anxiety screens (past year)

In the past 12 months have you taken any of the following types of medications? Please count only those you took, or are taking, several times per week. (Select all that apply)

4%	Psychostimulants (e.g., methylphenidate (Ritalin, or Concerta), amphetamine salts (Adderall), dextroamphetamine (Dexedrine), etc.)
14%	Antidepressants (e.g., fluoxetine (Prozac), sertraline (Zoloft), paroxetine (Paxil), escitalopram (Lexapro), venlafaxine (Effexor), bupropion (Wellbutrin), etc.)
1%	Anti-psychotics (e.g., haloperidol (Haldol), clozapine (Clozaril), risperidone (Risperdal), olanzapine (Zyprexa), etc.)
7%	Anti-anxiety medications (e.g., lorazepam (Ativan), clonazepam (Klonopin), alprazolam (Xanax), buspirone (BuSpar), etc.)
2%	Mood stabilizers (e.g., lithium, valproate (Depakote), lamotrigine (Lamictal), carbamazepine (Tegretol), etc.)
6%	Sleep medications (e.g., zolpidem (Ambien), zaleplon (Sonata), etc.)
4%	Other medication for mental or emotional health
77%	None

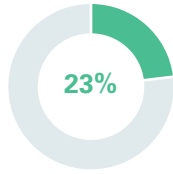
## Mental health care access

How has your access to mental health care been affected by the COVID-19 pandemic?

15%	Much more difficult or limited access
16%	Somewhat more difficult or limited access
23%	No significant change in access
2%	Somewhat less difficult or limited access
4%	Much less difficult or limited access
40%	Don't know or not applicable (have not tried to access care)

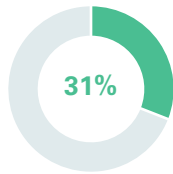
**Mental health counseling/therapy, all students (past year)**

In the past 12 months have you received counseling or therapy for your mental or emotional health from a health professional (such as psychiatrist, psychologist, social worker, or primary care doctor)?



**Mental health counseling/therapy among students with positive depression or anxiety screens (past year)**

In the past 12 months have you received counseling or therapy for your mental or emotional health from a health professional (such as psychiatrist, psychologist, social worker, or primary care doctor)?



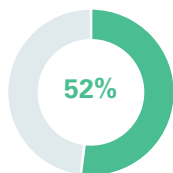
**Mental health counseling/therapy, all students (lifetime)**

Have you ever received counseling or therapy for mental health concerns?



**Mental health counseling/therapy among students with positive depression or anxiety screens (lifetime)**

Have you ever received counseling or therapy for mental health concerns?



**Informal help-seeking**

In the past 12 months have you received counseling or support for your mental or emotional health from any of the following sources? (Select all that apply)

3%	Roommate
35%	Friend (who is not a roommate)
22%	Significant other
29%	Family member
1%	Religious counselor or other religious contact
3%	Support group
2%	Other non-clinical source
43%	None of the above
1%	Faculty member/professor
1%	Staff member

**Barriers to help-seeking**

In the past 12 months, which of the following factors have caused you to receive fewer services (counseling, therapy, or medications) for your mental or emotional health than you would have otherwise received? (Select all that apply)

7%	I haven't had the chance to go but I plan to
43%	No need for services
17%	Financial reasons (too expensive, not covered by insurance)
13%	Not enough time
16%	Not sure where to go
8%	Difficulty finding an available appointment
17%	Prefer to deal with issues on my own or with support from family/friends
2%	Privacy concerns
2%	People providing services don't understand me
6%	Other
16%	No barriers

# REFERENCES

## MENTAL HEALTH SCREENS

- Diener, E., Wirtz, D., Tov, W., Kim-Prieto, C., Choi, D., Oishi, S., & Biswas-Diener, R. (2009). New measures of well-being: Flourishing and positive and negative feelings. *Social Indicators Research*, 39, 247-266.
- Morgan, J. F., Reid, F., & Lacey, J. H. (1999). The SCOFF questionnaire: assessment of a new screening tool for eating disorders *BMJ*, 319(7223), 1467-1468.
- Spitzer, R. L., Kroenke, K., Williams, J. B., & Patient Health Questionnaire Primary Care Study Group. (1999). Validation and utility of a self-report version of PRIME-MD: the PHQ primary care study. *JAMA*, 282(18), 1737-1744.
- Spitzer, R. L., Kroenke, K., Williams, J. B., & Löwe, B. (2006). A brief measure for assessing generalized anxiety disorder: the GAD-7. *Archives of Internal Medicine*, 166(10), 1092-1097.

## SELECTED ARTICLES PUBLISHED WITH HMS DATA

- Eisenberg, D., Golberstein, E., Hunt, J. (2009). Mental Health and Academic Success in College. *B.E. Journal of Economic Analysis & Policy* 9(1) (Contributions): Article 40.
- Eisenberg, D., Hunt, J.B., Speer, N., Zivin, K. (2011). Mental Health Service Utilization among College Students in the United States. *Journal of Nervous and Mental Disease* 199(5): 301-308.
- Eisenberg, D., Chung, H. (2012). Adequacy of Depression Treatment in College Student Populations. *General Hospital Psychiatry* 34(3):213-220.
- Eisenberg, D., Speer, N., Hunt, J.B. (2012). Attitudes and Beliefs about Treatment among College Students with Untreated Mental Health Problems. *Psychiatric Services* 63(7): 711-713.
- Eisenberg, D., Hunt, J.B., Speer, N. (2013). Mental Health in American Colleges and Universities: Variation across Student Subgroups and across Campuses. *Journal of Nervous and Mental Disease* 201(1): 60-67.
- Lipson, S., Gaddis, S.M., Heinze, J., Beck, K., Eisenberg, D. (2015). Variations in Student Mental Health and Treatment Utilization Across US Colleges and Universities. *Journal of American College Health*, 63(6): 388-396.
- Lipson, S., Zhou, S., Wagner, B., Beck, K., Eisenberg, D. (2016). Major differences: Variations in student mental health and service utilization across academic disciplines. *Journal of College Student Psychotherapy*, 30(1), 23-41.

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Website: [www.healthymindsnetwork.org](http://www.healthymindsnetwork.org)

# APPENDIX: DESCRIPTIVE STATISTICS FOR SURVEY ITEMS

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b>Respondent Characteristics</b>				
<i>Sample</i>				
N	743			
Response Rate	9%			
<i>Gender</i>				
Female	51%	(47%, 55%)	58%	X
Male	46%	(42%, 50%)	39%	X
Other	2%	(1%, 4%)	3%	
<i>Race/Ethnicity</i>				
White / Caucasian	23%	(20%, 26%)	63%	X
Black / African American	4%	(3%, 6%)	17%	X
Hispanic / Latino	25%	(22%, 29%)	12%	X
American Indian	2%	(1%, 3%)	2%	
Arab / Middle Eastern	3%	(2%, 5%)	2%	X
Asian / Asian American	50%	(45%, 54%)	11%	X
Pacific Islander	3%	(1%, 4%)	1%	X
Other	4%	(2%, 5%)	2%	X
<i>Country</i>				
US Resident / Citizen	89%	(87%, 92%)	94%	X
International	11%	(8%, 13%)	6%	X
<i>Residence</i>				
Campus residence hall	0%	(0%, 0%)	21%	
Fraternity / sorority house	0%	(0%, 0%)	1%	
Other campus housing	1%	(0%, 2%)	6%	X
Off-campus / non-university housing	32%	(28%, 35%)	38%	X
Parent or guardian's home	59%	(55%, 64%)	30%	X
Other	8%	(5%, 10%)	4%	X
<i>Academic level</i>				
Associates	67%	(63%, 71%)	18%	X
Bachelors	21%	(18%, 24%)	64%	X
Masters	1%	(0%, 2%)	11%	X
JD	0%	(0%, 0%)	0%	
MD	0%	(0%, 0%)	1%	
PhD or equivalent	0%	(0%, 0%)	3%	
Other	9%	(7%, 11%)	2%	X
Non-degree	12%	(9%, 15%)	2%	X
<i>Ever trained for or served in the military (Armed Forces, Reserves, or National Guard)</i>	3%	(2%, 5%)	3%	
<i>Age</i>				
18-22	49%	(45%, 53%)	66%	X
23-25	14%	(11%, 17%)	11%	X
26-30	14%	(11%, 17%)	9%	X
31+	22%	(19%, 26%)	13%	X
<i>Highest educational attainment of either parent</i>				
Less than high school degree	15%	(12%, 18%)	5%	X
High school degree	34%	(30%, 38%)	27%	X
College degree	30%	(26%, 34%)	38%	X
Graduate degree	21%	(18%, 25%)	30%	X

## Respondent Characteristics

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b>Religiosity</b>				
Very important	13%	(10%, 16%)	24%	X
Important	22%	(18%, 25%)	22%	
Neutral	33%	(29%, 37%)	25%	X
Unimportant	16%	(13%, 19%)	14%	
Very unimportant	16%	(13%, 19%)	16%	
<b>Current financial situation</b>				
Always stressful	18%	(15%, 22%)	15%	
Often stressful	22%	(19%, 26%)	24%	
Stressful	32%	(29%, 36%)	35%	
Rarely Stressful	18%	(15%, 21%)	19%	
Never Stressful	9%	(6%, 12%)	7%	
<b>Financial situation growing up</b>				
Always stressful	15%	(12%, 17%)	13%	
Often stressful	22%	(19%, 26%)	19%	X
Stressful	29%	(25%, 32%)	29%	
Rarely Stressful	23%	(19%, 26%)	26%	
Never Stressful	11%	(9%, 14%)	14%	
<b>Relationship status</b>				
Single	52%	(48%, 56%)	51%	
In a relationship	28%	(25%, 32%)	34%	X
Married or domestic partnership	17%	(14%, 20%)	13%	X
Divorced	1%	(1%, 2%)	1%	
<b>Sexual orientation</b>				
Heterosexual	80%	(77%, 83%)	78%	
Bisexual	9%	(7%, 11%)	12%	X
Gay / lesbian	3%	(2%, 5%)	3%	
Queer	2%	(1%, 3%)	3%	
Questioning	6%	(4%, 8%)	3%	X
Other	4%	(2%, 6%)	3%	
<b>Chronic disease</b>				
Diabetes	1%	(0%, 2%)	2%	
High blood pressure	4%	(2%, 5%)	4%	
Asthma	13%	(10%, 16%)	15%	
Thyroid disease (e.g., hypothyroid or hyperthyroid)	3%	(1%, 4%)	3%	
Gastrointestinal disease (e.g., Crohn's Disease, Ulcerative Colitis)	1%	(1%, 2%)	2%	
Arthritis	1%	(0%, 2%)	2%	
Sickle cell anemia	0%	(0%, 0%)	0%	
Seizure disorders (e.g., epilepsy)	1%	(0%, 1%)	1%	
Cancers	1%	(0%, 1%)	1%	
High cholesterol	2%	(1%, 3%)	3%	
HIV/AIDS	0%	(0%, 0%)	0%	
Other autoimmune disorder (please specify)	2%	(1%, 4%)	2%	
Other chronic disease (please specify)	5%	(3%, 6%)	5%	

## Mental Health Measures

<b>Positive Mental Health</b>				
Flourishing Scale (8-56)	41.2	(40.4, 42.0)	43.1	X
<b>Depression (PHQ-9)</b>				
Overall score (0-27)	9.6	(9.0, 10.1)	9.1	
In moderate range (10-14)	17%	(14%, 20%)	17%	
In moderately severe range (15-19)	12%	(10%, 15%)	11%	
In severe range (20-27)	9%	(7%, 11%)	8%	
Major depression (positive screen)	24%	(21%, 28%)	22%	
Other depression (positive screen)	19%	(16%, 23%)	19%	
Depression overall	44%	(40%, 48%)	41%	



### Mental Health Measures

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b><i>Impairment from depression (1)</i></b>				
Not difficult at all	22%	(18%, 26%)	23%	
Somewhat difficult	53%	(49%, 58%)	51%	
Very difficult	18%	(15%, 21%)	17%	
Extremely difficult	7%	(5%, 9%)	9%	
<b><i>Generalized anxiety (GAD-7)</i></b>				
Overall score (0-21)	7.5	(7.0, 8.0)	7.8	
In moderate range (10-14)	19%	(16%, 22%)	18%	
In severe range (15-21)	15%	(12%, 18%)	17%	
Probable anxiety disorder (positive screen)	34%	(30%, 38%)	34%	
<b><i>Depression/Anxiety</i></b>				
Depression or anxiety disorder	49%	(45%, 53%)	48%	
<b><i>Disordered eating and body image</i></b>				
Probable eating disorder (3+ on SCOFF)	14%	(11%, 17%)	12%	
Need to be very thin to feel good about self	28%	(25%, 32%)	27%	
Think you are very underweight	2%	(1%, 3%)	1%	
<b><i>Academic impairment from mental health, past 4 weeks (2)</i></b>				
None	21%	(17%, 24%)	18%	
1-2 days	27%	(23%, 31%)	28%	
3-5 days	25%	(22%, 29%)	26%	
6 or more days	27%	(23%, 31%)	27%	

### Self-Injury and Suicide

<b><i>Non-suicidal self-injury, past year</i></b>				
Any	23%	(19%, 26%)	23%	
Cutting self	5%	(3%, 6%)	5%	
Burning self	1%	(0%, 2%)	1%	
Punching or banging self	10%	(8%, 13%)	9%	
Scratching self	9%	(6%, 11%)	9%	
Pulling one's hair	9%	(7%, 11%)	9%	
Biting self	6%	(4%, 8%)	5%	
Interfering with wound healing	6%	(4%, 8%)	8%	X
Carving words or symbols in skin	0%	(0%, 0%)	1%	
Rubbing sharp objects on skin	2%	(1%, 4%)	3%	
Punching or banging wall or object	6%	(4%, 9%)	7%	
Other	2%	(1%, 4%)	2%	
<b><i>Frequency of self-injury, past year (among those with any)</i></b>				
Once or twice	55%	(46%, 65%)	51%	
Once a month or less	28%	(20%, 37%)	25%	
2 or 3 times a month	10%	(5%, 14%)	14%	
Once or twice a week	3%	(0%, 8%)	6%	
3 to 5 days a week	1%	(0%, 3%)	3%	
Nearly everyday, or everyday	2%	(0%, 4%)	2%	
<b><i>Suicidality</i></b>				
Seriously thought about attempting suicide, past year	18%	(14%, 21%)	13%	X
Made a plan for attempting suicide, past year	7%	(5%, 10%)	5%	
Attempted suicide, past year	1%	(0%, 2%)	1%	

(1) How difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?

(2) How many days have you felt that emotional or mental difficulties have hurt your academic performance?

### Previous Diagnoses of Mental Disorders

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b><i>Mental disorders</i></b> Any	34%	(30%, 38%)	40%	X
<b><i>Depression or mood disorder</i></b> Any Major depression Dysthymia Premenstrual dysphoric disorder	24% 14% 2% 1%	(21%, 28%) (11%, 17%) (1%, 3%) (0%, 1%)	27% 14% 2% 1%	
<b><i>Bipolar and related disorders</i></b> Any Bipolar I disorder Bipolar II disorder Cyclothymic disorder	3% 0% 1% 0%	(1%, 4%) (0%, 1%) (0%, 2%) (0%, 0%)	3% 1% 1% 0%	
<b><i>Anxiety disorder</i></b> Any Generalized anxiety disorder Panic disorder Agoraphobia Specific phobia Social anxiety disorder or social phobia	23% 18% 2% 0% 0% 5%	(19%, 27%) (15%, 22%) (1%, 3%) (0%, 1%) (0%, 0%) (3%, 7%)	31% 24% 5% 0% 1% 7%	X X X  X
<b><i>Obsessive-compulsive or related disorders</i></b> Any Obsessive-compulsive disorder	3% 2%	(2%, 5%) (1%, 3%)	5% 4%	X
<b><i>Trauma and stressor related disorders</i></b> Any Posttraumatic stress disorder Acute stress disorder	7% 6% 0%	(5%, 9%) (4%, 8%) (0%, 1%)	8% 7% 1%	
<b><i>Psychotic disorder</i></b> Any Schizophrenia	1% 0%	(0%, 2%) (0%, 1%)	1% 0%	
<b><i>Neurodevelopmental disorder or intellectual disability</i></b> Any ADHD Other intellectual disability Autism spectrum disorder	4% 4% 0% 1%	(2%, 6%) (2%, 6%) (0%, 1%) (0%, 1%)	7% 6% 0% 1%	X X
<b><i>Eating disorder</i></b> Any Anorexia nervosa Bulimia nervosa Binge eating disorder	3% 1% 1% 1%	(1%, 4%) (0%, 3%) (0%, 2%) (0%, 2%)	4% 2% 1% 1%	
<b><i>Personality disorder</i></b> Any	1%	(0%, 2%)	1%	
<b><i>Substance abuse disorder</i></b> Any Alcohol abuse disorder	2% 2%	(1%, 4%) (0%, 3%)	1% 1%	X

## Health Behaviors and Lifestyle

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b>Substance use, past 30 days</b>				
Cigarettes	4%	(2%, 6%)	7%	X
Vape pen or E-Cigarette	10%	(7%, 13%)	15%	X
Marijuana	19%	(16%, 23%)	20%	
Cocaine	1%	(0%, 1%)	1%	
Heroin	0%	(0%, 0%)	0%	
Opioid pain relievers without a prescription or more than prescribed	0%	(0%, 1%)	0%	
Benzodiazepenes	0%	(0%, 0%)	1%	
Methamphetamines	0%	(0%, 0%)	0%	
Other stimulants without a prescription or more than prescribed	1%	(0%, 1%)	1%	
MDMA (also known as Ecstasy or Molly)	0%	(0%, 1%)	0%	
Ketamine (also known as K, Special K)	0%	(0%, 0%)	0%	
LSD (also known as acid)	1%	(0%, 1%)	1%	
Psilocybin (also known as magic mushrooms, boomers, shrooms)	1%	(0%, 2%)	1%	
Kratom	0%	(0%, 0%)	0%	
Athletic performance enhancers (anything that violates policies set by school or any athletic governing body)	0%	(0%, 0%)	0%	
Other drugs without a prescription	1%	(0%, 2%)	1%	
<b>In the past 2 weeks, about how many times did you have 4 [female]/5 [male]/4 or 5 [not female or male] or more alcoholic drinks in a row? (1 drink is a can of beer, a glass of wine, a wine cooler, a shot of liquor, or a mixed drink.)</b>				
More than one time	18%	(14%, 21%)	28%	X
More than 3 times	5%	(3%, 7%)	9%	X
<b>Time studying/doing homework</b>				
Less than 1 hour/week	3%	(2%, 5%)	2%	X
1-2 hours/week	10%	(7%, 13%)	6%	X
3-5 hours/week	24%	(20%, 28%)	21%	
6-10 hours/week	24%	(21%, 28%)	28%	X
11-15 hours/week	16%	(13%, 19%)	17%	
16-20 hours/week	10%	(8%, 13%)	12%	
More than 20 hours/week	12%	(9%, 15%)	13%	
<b>Violence (past 12 months)</b>				
Did anyone strike or physically injure you?	7%	(5%, 9%)	6%	

## Attitudes and Beliefs about Services

<b>...think less of someone who has received mental health treatment.</b>				
I...	13%	(10%, 16%)	6%	X
Most people...	57%	(53%, 62%)	45%	X
<b>know where to go to access resources</b>				
Agree or strongly agree	58%	(54%, 63%)	70%	X
<b>Beliefs about effectiveness of treatment for depression</b>				
Believes medication is helpful or very helpful for depression	49%	(45%, 54%)	61%	X
Believes therapy is helpful or very helpful for depression	78%	(75%, 82%)	83%	X

## Help-Seeking

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<i>Think you needed help for emotional or mental health problems, past year</i>				
Strongly agree	25%	(22%, 29%)	28%	
Agree	15%	(12%, 18%)	18%	
Somewhat agree	17%	(14%, 21%)	16%	
Somewhat disagree	6%	(4%, 9%)	6%	
Disagree	16%	(13%, 19%)	14%	
Strongly disagree	19%	(16%, 23%)	18%	
<i>Psychotropic medication</i>				
Any, current	10%	(8%, 13%)	20%	X
Psychostimulants	2%	(1%, 3%)	6%	X
Anti-depressants	9%	(7%, 11%)	17%	X
Anti-psychotics	1%	(0%, 2%)	1%	
Anti-anxiety	4%	(2%, 6%)	8%	X
Mood stabilizers	2%	(1%, 3%)	2%	
Other	3%	(1%, 4%)	2%	
<i>Prescriber (among those with any past-year medication use)</i>				
General practitioner/nurse practitioner/primary care physician	30%	(20%, 40%)	60%	X
Psychiatrist	58%	(47%, 69%)	37%	X
Other type of health provider	3%	(0%, 8%)	4%	
No prescription	13%	(5%, 21%)	5%	X
Don't know	3%	(0%, 5%)	1%	
<i>Discussed medication with provider, past year (among those with medication use)</i>				
Not at all	20%	(11%, 29%)	10%	X
1-2 times	34%	(23%, 45%)	39%	
3-5 times	20%	(11%, 28%)	28%	
More than 5 times	26%	(16%, 36%)	22%	
<i>Whom you would talk to, if you were experiencing serious emotional distress</i>				
Professional clinician	31%	(27%, 34%)	33%	
Roommate	4%	(2%, 6%)	14%	X
Friend (who is not a roommate)	40%	(36%, 44%)	41%	
Significant other	27%	(24%, 31%)	33%	X
Family member	33%	(29%, 37%)	41%	X
Religious counselor / other religious contact	3%	(2%, 5%)	6%	X
Support group	5%	(3%, 7%)	3%	X
Other non-clinical source	1%	(0%, 1%)	1%	
No one	11%	(9%, 14%)	10%	
<i>Therapy or counseling for mental health</i>				
Past year	23%	(19%, 27%)	30%	X
Current	13%	(10%, 15%)	16%	X
<i>Visits in past year, among those with any</i>				
1-3	43%	(36%, 50%)	37%	
4-6	16%	(12%, 21%)	19%	
7-9	15%	(10%, 21%)	13%	
More than 10	6%	(3%, 10%)	7%	
<i>Use of specific providers for therapy or counseling for mental health</i>				
Campus Provider A	3%	(1%, 4%)	11%	X
Campus Provider B	1%	(0%, 1%)	1%	
Campus Provider C	2%	(0%, 3%)	2%	

## Help-Seeking

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b><i>Use of specific providers for therapy or counseling for mental health</i></b>				
Psychiatric emergency services	0%	(0%, 1%)	1%	
Inpatient psychiatric hospital	1%	(0%, 1%)	1%	
Partial hospitalization program	0%	(0%, 1%)	1%	
Provider in the local community (not on campus)	9%	(6%, 11%)	8%	
Provider in another location (such as hometown)	8%	(6%, 10%)	12%	X
Other	2%	(1%, 4%)	2%	
<b><i>Any medication or therapy for mental health</i></b>				
Past year	29%	(25%, 33%)	39%	X
Current	17%	(14%, 20%)	28%	X
<b><i>Any medication or therapy, among those with positive depression or anxiety screen</i></b>				
Past year	40%	(33%, 46%)	52%	X
Current	23%	(18%, 29%)	38%	X
<b><i>Any visit to a health provider</i></b>				
Past year	56%	(52%, 61%)	70%	X
<b><i>Received counseling or support for mental health from these sources, past year</i></b>				
Roommate	3%	(2%, 5%)	15%	X
Friend (other than roommate)	35%	(31%, 39%)	41%	X
Significant other	22%	(19%, 26%)	30%	X
Family member	29%	(25%, 33%)	37%	X
Religious contact	1%	(0%, 2%)	4%	X
Support group	3%	(1%, 4%)	2%	
Other non-clinical source	2%	(1%, 3%)	1%	X
None of the above	43%	(39%, 48%)	35%	X
<b><i>How helpful, overall, do you think the medication(s) was or has been for your mental or emotional health?</i></b>				
Very helpful	38%	(27%, 49%)	39%	
Helpful	27%	(16%, 37%)	31%	
Somewhat helpful	24%	(15%, 33%)	22%	
Not helpful	12%	(4%, 19%)	8%	
<b><i>How helpful, overall, do you think therapy or counseling was or has been for your mental or emotional health?</i></b>				
Very helpful	34%	(28%, 41%)	35%	
Helpful	28%	(22%, 34%)	28%	
Somewhat helpful	24%	(18%, 30%)	25%	
Not helpful	14%	(9%, 19%)	12%	
<b><i>Of the places you reported receiving counseling or therapy, how were your counseling or therapy sessions conducted?</i></b>				
In-person only	23%	(15%, 31%)	22%	
Remote/telehealth only (digital video conferencing, text/app chat, etc.)	46%	(37%, 56%)	42%	
Both in-person and remote	31%	(23%, 40%)	35%	

### Satisfaction with Therapy, Campus Providers

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b><i>Convenient hours</i></b>				
Very dissatisfied	7%	(0%, 21%)	3%	
Dissatisfied	0%	(0%, 0%)	4%	
Somewhat dissatisfied	7%	(0%, 16%)	8%	
Somewhat satisfied	29%	(8%, 50%)	20%	
Satisfied	30%	(10%, 49%)	43%	
Very satisfied	27%	(9%, 45%)	22%	
<b><i>Location</i></b>				
Very dissatisfied	7%	(0%, 22%)	2%	
Dissatisfied	4%	(0%, 12%)	4%	
Somewhat dissatisfied	4%	(0%, 11%)	7%	
Somewhat satisfied	15%	(1%, 29%)	17%	
Satisfied	41%	(18%, 63%)	46%	
Very satisfied	28%	(9%, 47%)	24%	
<b><i>Quality of therapists</i></b>				
Very dissatisfied	9%	(0%, 24%)	4%	
Dissatisfied	2%	(0%, 8%)	4%	
Somewhat dissatisfied	8%	(0%, 19%)	8%	
Somewhat satisfied	15%	(0%, 31%)	16%	
Satisfied	22%	(4%, 40%)	31%	
Very satisfied	44%	(22%, 66%)	30%	
<b><i>Respect for privacy concerns</i></b>				
Very dissatisfied	0%	(0%, 0%)	2%	
Dissatisfied	0%	(0%, 0%)	1%	
Somewhat dissatisfied	4%	(0%, 11%)	2%	
Somewhat satisfied	18%	(3%, 32%)	9%	
Satisfied	22%	(2%, 42%)	39%	
Very satisfied	57%	(35%, 79%)	46%	
<b><i>Scheduling appointments w/o long delays</i></b>				
Very dissatisfied	8%	(0%, 23%)	5%	
Dissatisfied	5%	(0%, 12%)	6%	
Somewhat dissatisfied	12%	(0%, 28%)	8%	
Somewhat satisfied	15%	(0%, 32%)	15%	
Satisfied	23%	(4%, 42%)	35%	
Very satisfied	37%	(16%, 58%)	31%	

Note: the confidence intervals are wide for these numbers, because the sample sizes are small (these questions were only asked of service users).

### Satisfaction with Therapy, Non-Campus Providers

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b><i>Convenient hours</i></b>				
Very dissatisfied	5%	(0%, 12%)	2%	
Dissatisfied	2%	(0%, 6%)	3%	
Somewhat dissatisfied	8%	(0%, 18%)	7%	
Somewhat satisfied	25%	(11%, 39%)	18%	
Satisfied	27%	(13%, 41%)	42%	
Very satisfied	32%	(14%, 50%)	28%	
<b><i>Location</i></b>				
Very dissatisfied	1%	(0%, 4%)	2%	X
Dissatisfied	9%	(2%, 15%)	4%	
Somewhat dissatisfied	3%	(0%, 5%)	7%	
Somewhat satisfied	17%	(9%, 25%)	15%	
Satisfied	41%	(30%, 52%)	43%	
Very satisfied	29%	(19%, 39%)	29%	
<b><i>Quality of therapists</i></b>				
Very dissatisfied	1%	(0%, 3%)	3%	
Dissatisfied	1%	(0%, 3%)	4%	
Somewhat dissatisfied	4%	(0%, 10%)	7%	
Somewhat satisfied	15%	(8%, 21%)	14%	
Satisfied	32%	(22%, 42%)	32%	
Very satisfied	47%	(36%, 58%)	40%	
<b><i>Respect for privacy concerns</i></b>				
Very dissatisfied	1%	(0%, 3%)	2%	
Dissatisfied	0%	(0%, 1%)	1%	
Somewhat dissatisfied	0%	(0%, 0%)	2%	
Somewhat satisfied	5%	(1%, 9%)	7%	
Satisfied	35%	(24%, 46%)	36%	
Very satisfied	58%	(47%, 69%)	52%	
<b><i>Scheduling appointments w/o long delays</i></b>				
Very dissatisfied	5%	(1%, 10%)	4%	
Dissatisfied	7%	(2%, 12%)	4%	
Somewhat dissatisfied	10%	(3%, 16%)	7%	
Somewhat satisfied	16%	(8%, 24%)	13%	
Satisfied	24%	(15%, 33%)	34%	X
Very satisfied	39%	(28%, 50%)	38%	

### Barriers and Facilitators to Help-Seeking

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<b>Reasons for receiving no or fewer services for mental health</b>				
I haven't had the chance to go but I plan to.	7%	(5%, 9%)	5%	
No need for services	43%	(38%, 47%)	37%	X
Financial reasons	17%	(14%, 21%)	18%	
Not enough time	13%	(10%, 15%)	19%	X
Not sure where to go	16%	(13%, 19%)	14%	
Difficulty finding an available appointment	8%	(6%, 11%)	9%	
Prefer to deal with issues on my own or with support from family/friends	17%	(14%, 20%)	19%	
Other	6%	(4%, 8%)	6%	
No barriers	16%	(13%, 19%)	17%	
<b>Reasons for seeking help</b>				
Decided on my own	81%	(75%, 87%)	73%	X
Friend encouraged or pressured me	13%	(7%, 19%)	19%	
Family member encouraged or pressured me	25%	(18%, 32%)	32%	X
Other person encouraged or pressured me	4%	(1%, 7%)	4%	
A campus advisor mandated me to seek help by campus staff	0%	(0%, 1%)	1%	
I acquired more information about my options	3%	(0%, 5%)	1%	
A campus advisor referred me to seek help	5%	(1%, 9%)	3%	
Health professional recommended help	14%	(8%, 20%)	12%	
Other reasons	4%	(1%, 8%)	4%	
<b>Source of health insurance</b>				
None (uninsured)	4%	(2%, 5%)	6%	X
Parent's employer	33%	(29%, 37%)	46%	X
Own employer	13%	(10%, 16%)	9%	X
Spouse's employer	7%	(5%, 8%)	3%	X
Student plan	5%	(3%, 7%)	6%	
Embassy or other international source	1%	(0%, 1%)	0%	
Individual market	3%	(2%, 4%)	2%	
Public insurance	17%	(14%, 20%)	8%	X
Uncertain whether insured	3%	(2%, 5%)	1%	X
Insured but uncertain of source	3%	(2%, 5%)	3%	
<b>Plan provides any coverage for local mental health visits (among those with a plan)</b>				
Yes, it definitely would	26%	(22%, 30%)	31%	X
I think it would but am not sure	26%	(22%, 30%)	28%	
I have no idea	37%	(32%, 41%)	31%	X
I think it would not but am not sure	8%	(5%, 10%)	7%	
No, it definitely would not	4%	(2%, 5%)	3%	
<b>Plan meets needs for mental health services (among those with a plan)</b>				
Have not needed plan to cover services	59%	(55%, 64%)	58%	
Yes, everything I have needed is covered	29%	(25%, 34%)	32%	
No, the coverage is inadequate to meet my needs	11%	(8%, 14%)	10%	



### Supportiveness of Academic and Social Environment

MEASURE	All Students	95% CONFIDENCE INTERVAL	NATIONAL SAMPLE	Significantly Different from National Sample
<i>Talked with any academic personnel about mental health problems affecting performance</i>	7%	(5%, 9%)	16%	X
<i>Supportiveness of response by academic personnel</i>				
Very supportive	44%	(27%, 60%)	51%	
Supportive	49%	(32%, 66%)	39%	
Not supportive	5%	(0%, 11%)	7%	
Very unsupportive	3%	(0%, 7%)	3%	
<i>Whom would you talk to about mental health problems affecting academic performance</i>				
Professor from one of classes	26%	(22%, 29%)	29%	
Academic advisor	18%	(15%, 22%)	25%	X
Another faculty member	3%	(2%, 5%)	5%	
Teaching assistant	2%	(0%, 3%)	2%	
Student services staff	11%	(9%, 14%)	9%	
Dean of Students or Class Dean	2%	(1%, 3%)	3%	
Other	4%	(2%, 5%)	4%	
No one	38%	(34%, 42%)	33%	X
<i>Persistence/retention</i>				
Am confident I will finish my degree no matter the challenges	71%	(67%, 75%)	78%	X

### Ethnicity Subcategories

<i>Black</i>				
African	36%	(15%, 58%)	14%	X
African American	53%	(30%, 75%)	79%	X
African Carribean	0%	(0%, 0%)	8%	
Afro-Latina/o/x	12%	(0%, 29%)	3%	
Other	8%	(0%, 18%)	4%	
<i>Asian</i>				
East Asian (eg Chinese, Japanese, Korean, Taiwanese)	43%	(37%, 49%)	43%	
Southeast Asian (eg Cambodian, Vietnamese, Hmong)	33%	(27%, 38%)	16%	X
South Asian (eg Indian, Pakistani, Nepalese, Sri Lankan)	16%	(11%, 21%)	23%	X
Filipina/o/x	13%	(9%, 18%)	10%	
Other	2%	(0%, 3%)	2%	
<i>Hispanic</i>				
Mexican/Mexican American	76%	(69%, 84%)	57%	X
Central American	13%	(8%, 19%)	13%	
South American	9%	(4%, 14%)	14%	
Carribean	6%	(1%, 11%)	11%	
Other	4%	(1%, 7%)	8%	