



# **Medical School Graduation Questionnaire**

## **2019 All Schools Summary Report**

July 2019

# Table of Contents

	<b>Page</b>
Executive Summary	1
Demographic Information	5
Overall Satisfaction with Medical Education	6
Basic Science Education	6
Clinical Experiences	9
Quality of Clerkships	9
Core Clerkship Activities	11
Preparedness for Residency	18
Veterans Affairs	19
Electives	19
Benefits of Diversity	20
Away Rotations	20
Educational Environment	21
Learning Environment Scales	21
Professionalism of Faculty	22
Personal and Professional Development	24
Personal Characteristics	24
Tolerance for Ambiguity Scale	24
Interpersonal Reactivity Index	24
Oldenburg Burnout Inventory for Medical Students Scale	25
Career Plans and Interests	26
Career Activities	26
Area of Practice (Specialty Choice)	26
Work Location	29
Plans to Serve Underserved Areas/Populations	31
Student Affairs and School Services	32
Offices of the Deans	32
Student Support, Services, and Facilities	32
Mistreatment Policies	35
Behaviors Experienced During Medical School	35
Financing of Education	41
Background Information	44
Gender Identity	44
Sexual Orientation	44
Region and Control of Medical School	44
References	45
Appendix - Piloted Questions	46

## 2019 AAMC Medical School Graduation Questionnaire All Schools Summary Report & Individual School Report

### Executive Summary

#### Background

The *All Schools Summary Report* of the 2019 Medical School Graduation Questionnaire (GQ) provides aggregate data from graduates of U.S. MD-granting medical schools accredited by the Liaison Committee on Medical Education (LCME). The *All Schools Summary Report* is made available to the public. In addition, each accredited medical school receives separately an *Individual School Report* showing data from its graduating students who responded to the GQ, with comparisons to the national data. By request, regional and clinical campuses under the aegis of an accredited institution are also issued GQ campus reports if there are five or more student respondents from the campus. Eighty-four percent (16,657) of medical school graduates in academic year 2018-2019 (19,933) participated in the 2019 GQ.

The GQ was established in 1978 as a method for the Association of American Medical Colleges (AAMC), medical schools, and other organizations to identify and address issues critical to the future of medical education and the well-being of medical students. These issues include: students' satisfaction with their educational program's ability to prepare them for residency; students' career and specialty plans; the costs of medical education; and students' experiences of mistreatment in the learning environment. Since its inception, the GQ has been a tool used by medical schools, faculty, students, researchers, and the LCME for benchmarking and improving medical education.

The attached report displays five years of data, 2015 through 2019, where comparable data are available.

#### Methodology

The data in the 2019 GQ *All Schools Summary Report* reflect the responses of 16,657 graduates of the 142 U.S. medical schools that graduated students in the 2018-2019 academic year. According to the AAMC Student Records System (SRS) as of July 8, 2019, these 16,657 respondents represent 83.6% of the 19,933 medical students who graduated from July 1, 2018 through June 30, 2019. Survey data for participating individuals may not be comparable to data for nonparticipants. The 2019 results include responses from the first graduating class at California Northstate University College of Medicine.

The 2019 GQ was open for participation from February 14, 2019 through June 7, 2019. The initial participants were individuals with expected graduation dates between July 1, 2018 and June 30, 2019 as identified by SRS data and confirmed by medical school personnel in January 2019. While the survey was open, medical schools could request changes to the list of eligible participants to reflect changes in expected graduation status. Through a variety of measures, medical schools independently encouraged graduating students to participate. The AAMC also sent email invitations and monthly reminders to eligible students.

Percentages displayed in the reports may not sum to 100 due to rounding or to collection formats permitting more than one response. Where the reports appear to have missing columns, rows, or blank spaces within rows, these correspond to unavailable data for a particular survey item in a given year, usually due to changes in when the survey item was offered, or to alterations to the item affecting the comparability of the data. These are to be distinguished from data with a displayed percent of '0.0', which correspond to real survey response options that were selected by no, or very few, respondents.

## Changes to the Graduation Questionnaire in 2019

Revisions to the GQ aim to incorporate emerging issues that impact medical education, enable the tracking of students' opinions and experiences across the educational continuum, and improve the quality of the survey data. The following changes were made to the GQ survey and reports for 2019.

### *Away Rotations*

To better understand the diversity of clinical experiences of medical students, the 2019 GQ introduced questions about the number of away rotations students completed. The data for these new items are displayed in report items 17 and 18. School- and campus-level data about away rotations are also being made available in the 2019 GQ school and campus reports.

### *Piloted Items on Disability and Preparation for Residency (in Report Appendix)*

The 2019 GQ piloted several new items; the national data for these items are displayed in an Appendix at the end of this *All Schools Summary Report*. The 2019 GQ school and campus reports are not displaying school- and campus-level data for these piloted items.

The piloted items address the topics of student with disabilities (report items 67-70); core “entrustable professional activities,” or EPAs (items 71-73); and student confidence in their ability to apply the principles of high value care in medical decision-making, and, separately, student confidence in their ability to address the social determinants that differentially influence patient health (item 74).

Refer to the Appendix at the end of the *All Schools Summary Report* for more information about these piloted items.

### *Clerkship Experiences: Teaching by Residents*

The 2019 GQ reports do not display current or prior-year data for the items labeled “Residents provided effective teaching during the clerkship.” Due to an error in the 2019 collection instrument, these data, normally presented after the data for “Faculty provided effective teaching during the clerkship” at report item 11, have been determined to be not comparable with prior years' data and therefore not useful for analysis.

## Selected Findings

### *Graduates Report Satisfaction with Their Medical School Education and Development as Physicians*

Roughly nine out of ten U.S. medical school graduates who responded to the 2019 GQ either agreed or strongly agreed with the statement, “Overall, I am satisfied with the quality of my medical education” (89.2%).

An equally strong majority of 2019 U.S. medical school graduates also affirmed their readiness for the next phase of their training, with 90.6% stating they agreed or strongly agreed they “have acquired the clinical skills required to begin a residency program.”

On a related note, a strong majority (91.8%) of 2019 medical school graduates who responded to the GQ agreed or strongly agreed that “My medical school has done a good job of fostering and nurturing my development as a future physician.” Meanwhile, 72.3% agreed or strongly agreed with the statement, “My medical school has done a good job of fostering and nurturing my development as a person.”

### *Percentage of Students Reporting Clinical Observation and Feedback Continues to Increase*

In 2019, there were small increases in the percentage of graduating medical students who reported that, during clerkships, they were observed taking patient histories and performing patient exams. Similar increases were also seen in the number of graduates who confirmed that they received mid-clerkship feedback. These increases were seen across all clerkships and extend gains observed in previous years.

### *Students Increase Engagement in Research and Education Activities*

The share of 2019 medical school graduates who indicated they had participated in a research project with a faculty member was 80.9%. This is two points higher than the figure reported by 2018 graduates (78.8%) and 11 points higher than the figure reported in 2015 (69.4%). Similarly, those in the class of 2019 were more likely than recent past graduates to report authoring a peer-reviewed article submitted for publication (54.0%, compared to 47.8% in 2015) and authoring a peer-reviewed poster or oral presentation (60.6%, compared to 52.5% in 2015). The class of 2019 also indicated greater involvement in educating younger students about careers in health and science: 53.7% of 2019 graduates said they had participated in such activities, an increase of nine points over the 44.7% reported by graduates five years ago. The 2019 medical school graduates were also more involved in providing specific health education on HIV/AIDS and other topics: 64.5% of the 2019 respondents said they had provided such education, compared to 60.5% of graduates in 2015.

### *Graduates Report Higher Approval with Electives Advice*

The portion of 2019 medical school graduates who said they agree or strongly agree that they “received appropriate guidance in the selection of electives” was 71.8%. Those who said they “strongly agree” has risen in recent years. In 2019, the portion who stated they “strongly agree” was 28.0%; by comparison, in 2015 the portion who stated “strongly agree” was 20.9%.

### *More Graduates Agree that Student Diversity Enhances Training*

The benefits of having a diverse student body have been increasingly confirmed by the medical school graduates of recent years. In the 2019 GQ, 70.8% of respondents said they agree or strongly agree that “the diversity within my medical school class enhanced my training and skills to work with individuals from different backgrounds.” As a comparison, in 2015 this figure was 62.0%. Relatedly, 2019 medical school graduates expressed appreciation for the value of being exposed to diverse populations. About ninety percent of respondents to the 2019 GQ said they agree or strongly agree that their knowledge was “influenced or changed by becoming more aware of the perspectives of individuals from different backgrounds” (89.8%). In 2015, this figure was 85.4%.

### *Medical Education Debt Rises, but fewer Graduates are Indebted*

The percentage of 2019 medical school graduates who graduated with no medical school debt was 28.7%. This is slightly larger than the 27.7% of 2018 graduates who reported having no medical school debt. The share of graduates without medical school debt has grown steadily in recent years; in 2015, the figure was 21.5%.

For those graduating with debt, the median medical school debt reported was \$200,000, an increase of 2.7% over the median \$195,000 reported by 2018 graduates. For total educational debt, the sum of premedical educational debt and medical school debt, the median reported by indebted students in 2019 was \$200,000, the same as in 2018. Of those carrying debt, 43.9% indicated plans to enter a loan forgiveness program. Three quarters (76.3%) of respondents planning to enter a loan forgiveness program identified the Department of Education’s Public Loan Forgiveness Program in their repayment plans.

### *Personal Interest Remains Top Influence on Medical Specialty Choice*

The strongest influence on specialty choice reported by 2019 GQ respondents was “Fit with personality, interests, and skills”: 87.2% of respondents indicated that “fit” had a “strong influence.” Similarly, “Content of specialty” was selected by 83.4% of respondents as having a strong influence. The third most frequently cited strong influence on specialty choice by 2019 graduates was “Role model influence” at 50.9%. Personal fit, content, and role modeling have been the three most frequently cited influences on specialty choice by each of the past five classes of medical school graduates.

The percentage of medical school graduates who said their financial concerns affected their choice of medical specialty went up slightly in 2019. The portion of 2019 graduates who said that the level of education debt had a

strong (6.5%) or moderate (15.4%) influence on their specialty choice was 21.8%, a slight increase over the 21.3% who reported similar opinions in 2018.

#### *More Graduates Plan to Serve the Underserved*

The percentage of medical school graduates who “plan to care primarily for an underserved population” increased in 2019, to 36.1% of GQ respondents. This number has grown by nearly eight points since 2015 (28.2%). The share of new graduates who “plan to work primarily in an underserved area” remained steady: among 2019 GQ respondents, 26.9% said they planned to work in an underserved area, up slightly from the 26.4% of respondents who reported such plans a year ago.

#### *Indicators of Mistreatment Experienced by Medical Students Fall Slightly*

The medical school graduates of 2019 were slightly less likely than the class of 2018 to state that they personally experienced negative behaviors directed at them while in medical school. The GQ asks respondents to indicate how frequently they experienced any of 16 types of behaviors, including public humiliation, derogatory remarks, and discrimination based on gender, race, sexual orientation, or other personal traits or beliefs. The share of 2019 medical school graduates who reported experiencing any of these behaviors (excluding “embarrassment”) “once” or more during their time in medical school was 40.4%. This was slightly less than what was reported by 2018 graduates (42.1%) but still about one point above what was reported by graduates from 2015 to 2017.

#### *Medical School Graduates Self-Report Their Marital Status, Gender, Sexual Orientation*

U.S. medical school graduates who were legally married in 2019 comprised 23.2% of GQ respondents. This represents a decline of 2.5 points since 2016 (25.7%) when the question was introduced to the GQ. Perhaps relatedly, the percentage of graduates who reported having dependents other than a spouse also declined in recent years: from 9.2% in 2016 to 7.7% in 2019.

Among 2019 GQ respondents, about one-half of one percent (0.4%) self-identified as having a gender identity that was different from the sex they were assigned at birth. Medical school graduates who identified as “heterosexual or straight” were 92.8% of respondents, those who identified as “gay or lesbian” were 4.0% of respondents, and those who identified as “bisexual” were 3.2%.

Copies of the GQ survey are available at [www.aamc.org/gq](http://www.aamc.org/gq).

#### **Providing Feedback**

For inquiries or feedback regarding the GQ surveys or reports, contact [gq@aamc.org](mailto:gq@aamc.org).

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>Total number of students who responded to the questionnaire:</b>		14,939	15,232	15,609	16,223	16,657
<b>1. Sex:</b>	<b>Note: The data are from other AAMC data sources.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Male		50.9	52.2	51.3	50.9	50.7
Female		49.1	47.8	48.7	49.1	49.3
Number of respondents		14,939	15,232	15,609	16,222	16,655
<b>2. Age at graduation:</b>	<b>Note: The data are from other AAMC data sources.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Under 24		0.5	0.3	0.3	0.4	0.3
24 through 26		42.1	41.8	40.0	39.9	39.5
27 through 29		40.3	40.4	42.2	41.7	42.6
30 through 32		11.3	11.5	11.8	12.0	12.0
Over 32		5.8	6.0	5.6	6.0	5.6
Number of respondents		14,939	15,232	15,609	16,223	16,657
<b>3. How do you self-identify?</b>	<b>Note: The data are from other AAMC data sources. Percentages may not sum to 100% as multiple responses were allowed. Race/ethnicity data are only displayed for U.S. citizens and permanent residents.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
American Indian or Alaska Native		0.7	0.8	0.8	0.7	0.9
Asian		21.9	23.4	22.9	23.1	23.9
Black or African American		5.6	6.3	6.2	5.8	6.7
Hispanic, Latino, or of Spanish origin		7.5	8.2	8.4	8.8	8.6
Native Hawaiian or Other Pacific Islander		0.1	0.3	0.3	0.2	0.3
White		67.2	69.0	65.0	64.9	63.2
Other		2.8	0.4	2.9	2.9	3.0
Non-US citizen and Non-permanent resident		1.9	1.9	1.6	1.7	1.9
Number of respondents		14,882	15,062	15,464	16,064	16,558
<b>4. What is your current marital status?</b>						
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Single (never legally married)		72.7	73.9	74.3	75.3	75.3
Legally married		25.7	24.6	24.3	23.2	23.2
Common law or civil union		0.4	0.4	0.4	0.4	0.4
Divorced		1.0	0.9	0.8	0.9	0.9
Separated, but still legally married		0.1	0.2	0.1	0.2	0.2
Widowed		0.1	0.0	0.0	0.0	0.0
Number of respondents		13,866	14,360	15,319	15,581	15,581

		All Schools				
		2015	2016	2017	2018	2019
<b>5. How many dependents do you have (not including a spouse/partner)?</b>		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	None		90.8	91.1	91.7	92.3
	One		5.3	5.4	4.9	4.4
	Two		2.8	2.6	2.3	2.2
	Three		0.8	0.7	0.8	0.7
	Four or more		0.4	0.2	0.4	0.3
Number of respondents			13,857	14,349	15,301	15,544

<b>6. Type of degree program:</b>		<b>Note: The data are from the AAMC Student Records System.</b>				
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
MD		90.3	90.5	90.5	90.9	90.8
Joint BA/MD		3.1	3.2	2.7	2.6	2.7
Joint MD/MBA		0.6	0.7	0.8	0.8	0.9
Joint MD/MPH		1.6	1.4	1.8	1.7	1.7
Joint MD/PhD		3.2	3.2	3.1	3.0	2.9
Joint MD/Other		1.1	1.0	1.2	1.0	1.1
Number of respondents		14,939	15,232	15,609	16,223	16,657

<b>7. Please indicate the extent to which you agree with the following statement:</b>		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
Overall, I am satisfied with the quality of my medical education							
All Medical Schools	2019	1.4	3.2	6.2	49.4	39.8	16,020
All Medical Schools	2018	1.0	3.1	6.6	51.0	38.3	16,153
All Medical Schools	2017	0.8	3.0	6.2	50.2	39.7	15,589
All Medical Schools	2016	1.0	2.8	6.1	50.3	39.8	15,213
All Medical Schools	2015	0.8	2.6	5.7	49.2	41.7	14,842

<b>8. Based on your experiences, indicate whether you agree or disagree with the following statements about medical school:</b>		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
Basic science coursework had sufficient illustrations of clinical relevance.							
All Medical Schools	2019	1.5	9.2	14.5	51.7	23.1	16,477
All Medical Schools	2018	1.3	7.7	13.8	53.1	24.1	16,078
All Medical Schools	2017	1.0	7.6	13.9	53.1	24.4	15,329
All Medical Schools	2016	1.4	7.8	12.6	54.0	24.2	14,932
All Medical Schools	2015	1.1	7.4	13.2	55.1	23.2	14,653
Required clinical experiences integrated basic science content.							
All Medical Schools	2019	0.9	4.7	14.0	55.1	25.3	16,437
All Medical Schools	2018	0.7	4.6	14.1	55.1	25.6	16,028
All Medical Schools	2017	0.7	4.6	14.0	55.0	25.7	15,257
All Medical Schools	2016	0.9	5.1	13.2	55.7	25.1	14,861
All Medical Schools	2015	0.7	5.1	14.7	55.9	23.5	14,552



**9. How well did your study of the following sciences basic to medicine prepare you for clinical clerkships and electives?**

**Note: Respondents had the option to select "Not applicable"; these data are not included in the report calculations and counts.**

		Percentage of Respondents Selecting Each Rating				
		Poor	Fair	Good	Excellent	Count
<b>Biochemistry</b>						
All Medical Schools	2019	11.0	26.5	40.2	22.3	16,161
All Medical Schools	2018	10.0	27.7	40.1	22.2	15,780
All Medical Schools	2017	10.1	27.0	40.9	22.0	15,109
All Medical Schools	2016	10.5	27.1	40.1	22.3	14,710
All Medical Schools	2015	9.5	27.2	41.0	22.3	14,428
<b>Biostatistics and epidemiology</b>						
All Medical Schools	2019	7.9	23.9	42.2	26.0	16,284
All Medical Schools	2018	7.5	23.9	42.6	26.0	15,897
All Medical Schools	2017	6.7	23.7	43.3	26.3	15,241
All Medical Schools	2016	7.0	23.7	43.6	25.8	14,818
All Medical Schools	2015	6.5	24.3	44.2	25.0	14,545
<b>Genetics</b>						
All Medical Schools	2019	5.1	23.5	46.6	24.8	16,288
All Medical Schools	2018	5.2	23.4	47.2	24.2	15,915
All Medical Schools	2017	4.6	23.1	48.5	23.8	15,210
All Medical Schools	2016	4.8	23.7	47.1	24.5	14,833
All Medical Schools	2015	4.8	23.1	48.7	23.4	14,556
<b>Gross anatomy</b>						
All Medical Schools	2019	3.1	10.3	34.4	52.2	16,402
All Medical Schools	2018	3.3	10.5	33.6	52.6	16,005
All Medical Schools	2017	3.0	10.4	34.3	52.3	15,308
All Medical Schools	2016	2.7	9.6	33.6	54.1	14,910
All Medical Schools	2015	2.8	9.5	34.5	53.2	14,625
<b>Immunology</b>						
All Medical Schools	2019	3.8	15.5	45.4	35.2	16,341
All Medical Schools	2018	3.5	15.5	45.6	35.5	15,973
All Medical Schools	2017	3.1	14.9	46.3	35.7	15,244
All Medical Schools	2016	3.6	15.8	45.8	34.8	14,831
All Medical Schools	2015	4.0	15.5	46.5	34.0	14,559
<b>Introduction to Clinical Medicine/Introduction to the Patient</b>						
All Medical Schools	2019	1.6	6.8	29.5	62.1	16,178
All Medical Schools	2018	1.8	6.7	30.0	61.5	15,759
All Medical Schools	2017	1.7	7.3	29.4	61.6	15,101
All Medical Schools	2016	1.8	6.9	29.9	61.4	14,712
All Medical Schools	2015	1.8	6.9	30.2	61.1	14,438
<b>Microanatomy/Histology</b>						
All Medical Schools	2019	7.2	21.5	41.7	29.6	16,257
All Medical Schools	2018	6.8	22.1	41.5	29.7	15,880
All Medical Schools	2017	6.1	21.4	42.7	29.8	15,198
All Medical Schools	2016	6.0	20.7	43.0	30.2	14,800
All Medical Schools	2015	5.5	20.5	44.0	30.0	14,522

**9. How well did your study of the following sciences basic to medicine prepare you for clinical clerkships and electives?**

**Note: Respondents had the option to select "Not applicable"; these data are not included in the report calculations and counts. (Continued)**

		Percentage of Respondents Selecting Each Rating				
		Poor	Fair	Good	Excellent	Count
<b>Microbiology</b>						
All Medical Schools	2019	3.7	11.6	38.8	45.8	16,358
All Medical Schools	2018	3.8	12.6	38.9	44.8	15,972
All Medical Schools	2017	3.3	12.8	41.3	42.6	15,272
All Medical Schools	2016	4.0	13.1	41.0	41.9	14,866
All Medical Schools	2015	3.5	13.4	41.9	41.2	14,592
<b>Neuroscience</b>						
All Medical Schools	2019	4.3	12.6	38.4	44.7	16,359
All Medical Schools	2018	4.0	12.4	38.3	45.2	15,983
All Medical Schools	2017	4.0	12.2	38.1	45.7	15,266
All Medical Schools	2016	3.4	11.7	38.3	46.5	14,883
All Medical Schools	2015	3.1	11.5	39.6	45.8	14,622
<b>Pathology</b>						
All Medical Schools	2019	2.8	12.8	40.4	44.0	16,305
All Medical Schools	2018	2.6	12.5	40.1	44.9	15,921
All Medical Schools	2017	2.5	11.9	39.8	45.8	15,222
All Medical Schools	2016	2.5	10.7	39.3	47.5	14,833
All Medical Schools	2015	2.4	11.0	39.5	47.1	14,554
<b>Pharmacology</b>						
All Medical Schools	2019	6.0	15.4	37.9	40.7	16,364
All Medical Schools	2018	7.3	17.0	38.5	37.2	15,985
All Medical Schools	2017	6.3	16.8	39.4	37.5	15,281
All Medical Schools	2016	6.3	16.1	39.6	38.1	14,905
All Medical Schools	2015	5.7	16.4	40.3	37.6	14,616
<b>Physiology</b>						
All Medical Schools	2019	2.2	8.0	37.6	52.2	16,320
All Medical Schools	2018	2.1	8.1	37.0	52.8	15,968
All Medical Schools	2017	1.7	7.5	37.3	53.5	15,249
All Medical Schools	2016	1.6	7.5	37.1	53.8	14,842
All Medical Schools	2015	1.8	7.4	37.3	53.6	14,561
<b>Behavioral science</b>						
All Medical Schools	2019	2.4	11.4	43.3	42.9	16,185
All Medical Schools	2018	2.5	11.3	43.6	42.6	15,770
All Medical Schools	2017	2.2	11.5	44.6	41.7	15,095
All Medical Schools	2016	2.4	12.1	44.0	41.5	14,737
All Medical Schools	2015	2.3	12.3	45.4	40.0	14,392
<b>Pathophysiology of disease</b>						
All Medical Schools	2019	1.2	5.5	35.6	57.7	16,221
All Medical Schools	2018	1.0	5.5	35.4	58.0	15,828
All Medical Schools	2017	1.2	5.3	34.3	59.2	15,117
All Medical Schools	2016	1.1	5.0	34.2	59.7	14,719
All Medical Schools	2015	1.0	5.2	34.7	59.1	14,414

- 10. Rate the quality of your educational experiences in the following clerkships. If you participated in an integrated clerkship, please answer this question in terms of your educational experience in each discipline. If you had no clinical experiences in the discipline, select "Not applicable."  
Note: "Not applicable" responses are not included in the report calculations and counts.**

		Percentage of Respondents Selecting Each Rating				
		Poor	Fair	Good	Excellent	Count
<b>Emergency Medicine</b>						
All Medical Schools	2019	3.7	9.0	31.2	56.2	12,006
All Medical Schools	2018	3.6	9.0	32.0	55.5	11,821
All Medical Schools	2017	3.1	9.2	32.1	55.5	10,996
All Medical Schools	2016	2.8	9.5	31.7	56.0	10,580
All Medical Schools	2015	3.1	9.6	32.5	54.8	10,344
<b>Family Medicine</b>						
All Medical Schools	2019	4.0	12.0	31.4	52.6	15,816
All Medical Schools	2018	3.6	11.7	31.2	53.6	15,355
All Medical Schools	2017	3.7	10.6	33.1	52.6	14,690
All Medical Schools	2016	3.8	11.6	32.8	51.8	14,359
All Medical Schools	2015	4.1	11.9	33.7	50.3	14,125
<b>Internal Medicine</b>						
All Medical Schools	2019	2.1	6.9	29.0	61.9	16,490
All Medical Schools	2018	1.8	7.1	29.5	61.6	16,046
All Medical Schools	2017	1.7	7.0	28.4	62.8	15,354
All Medical Schools	2016	2.0	6.7	28.8	62.6	14,947
All Medical Schools	2015	1.7	6.7	29.4	62.2	14,694
<b>Neurology</b>						
All Medical Schools	2019	5.8	16.1	35.9	42.1	14,805
All Medical Schools	2018	5.7	16.5	36.4	41.4	14,539
All Medical Schools	2017	6.1	17.3	36.1	40.6	13,715
All Medical Schools	2016	6.9	17.0	36.7	39.4	13,511
All Medical Schools	2015	6.3	18.0	37.6	38.2	13,002
<b>Obstetrics-Gynecology/Women's Health</b>						
All Medical Schools	2019	7.1	14.0	33.0	45.9	16,484
All Medical Schools	2018	6.8	13.9	33.4	45.9	16,033
All Medical Schools	2017	6.5	14.0	33.9	45.5	15,361
All Medical Schools	2016	7.0	14.4	34.8	43.9	14,957
All Medical Schools	2015	6.6	14.5	34.8	44.1	14,686
<b>Pediatrics</b>						
All Medical Schools	2019	3.2	10.4	32.8	53.6	16,483
All Medical Schools	2018	3.2	10.3	32.8	53.8	16,045
All Medical Schools	2017	3.2	10.5	33.7	52.6	15,364
All Medical Schools	2016	3.0	10.4	32.3	54.3	14,941
All Medical Schools	2015	3.1	9.8	33.5	53.6	14,694
<b>Psychiatry</b>						
All Medical Schools	2019	2.6	9.7	32.5	55.2	16,479
All Medical Schools	2018	2.5	9.6	33.3	54.6	16,036
All Medical Schools	2017	2.9	9.8	34.1	53.2	15,349
All Medical Schools	2016	3.1	10.4	34.6	51.9	14,939
All Medical Schools	2015	3.2	11.0	35.6	50.2	14,670

**10. Rate the quality of your educational experiences in the following clerkships. If you participated in an integrated clerkship, please answer this question in terms of your educational experience in each discipline. If you had no clinical experiences in the discipline, select "Not applicable."**

**Note: "Not applicable" responses are not included in the report calculations and counts. (Continued)**

		Percentage of Respondents Selecting Each Rating				
		Poor	Fair	Good	Excellent	Count
Surgery						
All Medical Schools	2019	5.0	12.9	34.7	47.4	16,481
All Medical Schools	2018	5.1	13.1	34.8	47.0	16,024
All Medical Schools	2017	5.1	12.5	34.7	47.7	15,357
All Medical Schools	2016	4.9	11.9	35.2	48.0	14,937
All Medical Schools	2015	4.5	12.1	35.5	47.9	14,674

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>11. Clerkship Experiences: Family Medicine</b>						
<b>Family Medicine: Were you observed taking the relevant portions of the patient history?</b>						
Yes		87.3	88.9	90.0	91.0	91.6
No		12.7	11.1	10.0	9.0	8.4
Number of respondents		14,068	14,279	14,626	15,293	15,758
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Family Medicine: Were you observed performing the relevant portions of the physical or mental status exam?</b>						
Yes		89.3	90.9	91.7	92.7	92.9
No		10.7	9.1	8.3	7.3	7.1
Number of respondents		14,027	14,223	14,563	15,228	15,699
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Family Medicine: Were you provided with mid-clerkship feedback?</b>						
Yes		94.0	94.8	95.0	95.2	95.6
No		6.0	5.2	5.0	4.8	4.4
Number of respondents		14,014	14,228	14,566	15,221	15,705

		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Family Medicine: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	2.1	4.0	9.3	34.6	50.0	15,721
All Medical Schools	2018	2.1	3.7	8.7	34.1	51.3	15,238
All Medical Schools	2017	1.7	3.8	9.3	36.4	48.9	14,546
All Medical Schools	2016	1.7	3.9	9.1	36.8	48.5	14,195
All Medical Schools	2015	1.9	4.0	9.0	37.0	48.1	13,993

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>11. Clerkship Experiences: Internal Medicine</b>		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Internal Medicine: Were you observed taking the relevant portions of the patient history?</b>						
Yes		91.5	92.7	93.4	93.9	94.3
No		8.5	7.3	6.6	6.1	5.7
Number of respondents		14,618	14,861	15,275	15,972	16,413
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Internal Medicine: Were you observed performing the relevant portions of the physical or mental status exam?</b>						
Yes		92.9	93.8	94.3	94.8	95.0
No		7.1	6.2	5.7	5.2	5.0
Number of respondents		14,570	14,796	15,206	15,905	16,348
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Internal Medicine: Were you provided with mid-clerkship feedback?</b>						
Yes		97.2	97.7	98.0	98.0	98.2
No		2.8	2.3	2.0	2.0	1.8
Number of respondents		14,559	14,803	15,210	15,914	16,360

		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Internal Medicine: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	1.0	2.0	4.9	29.0	63.1	16,387
All Medical Schools	2018	1.1	1.9	4.9	27.9	64.2	15,938
All Medical Schools	2017	0.8	1.6	5.0	30.0	62.6	15,182
All Medical Schools	2016	0.9	1.7	4.9	29.8	62.7	14,735
All Medical Schools	2015	0.7	1.9	4.9	30.5	62.0	14,518

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>11. Clerkship Experiences: Neurology</b>						
<b>Neurology: Were you observed taking the relevant portions of the patient history?</b>						
Yes		78.7	81.4	82.9	84.5	85.9
No		21.3	18.6	17.1	15.5	14.1
Number of respondents		12,964	13,458	13,653	14,478	14,730
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Neurology: Were you observed performing the relevant portions of the physical or mental status exam?</b>						
Yes		87.7	89.5	90.9	92.0	92.4
No		12.3	10.5	9.1	8.0	7.6
Number of respondents		12,933	13,406	13,607	14,417	14,672
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Neurology: Were you provided with mid-clerkship feedback?</b>						
Yes		85.4	87.4	88.5	89.2	89.8
No		14.6	12.6	11.5	10.8	10.2
Number of respondents		12,915	13,414	13,596	14,413	14,672

		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Neurology: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	1.9	4.5	12.4	37.2	43.9	14,709
All Medical Schools	2018	1.7	4.8	12.0	35.6	45.9	14,439
All Medical Schools	2017	1.8	4.8	12.9	37.3	43.2	13,574
All Medical Schools	2016	2.0	5.4	12.8	37.4	42.3	13,348
All Medical Schools	2015	1.9	5.2	12.7	39.0	41.3	12,885

		<b>All Schools</b>					
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	
<b>11. Clerkship Experiences: Obstetrics-Gynecology/Women's Health</b>		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	
<b>Obstetrics-Gynecology/Women's Health: Were you observed taking the relevant portions of the patient history?</b>							
Yes		78.9	81.8	83.3	84.4	85.9	
No		21.1	18.2	16.7	15.6	14.1	
Number of respondents		14,601	14,845	15,257	15,971	16,401	
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	
<b>Obstetrics-Gynecology/Women's Health: Were you observed performing the relevant portions of the physical or mental status exam?</b>							
Yes		88.8	90.1	91.0	91.2	92.4	
No		11.2	9.9	9.0	8.8	7.6	
Number of respondents		14,570	14,797	15,205	15,915	16,340	
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	
<b>Obstetrics-Gynecology/Women's Health: Were you provided with mid-clerkship feedback?</b>							
Yes		92.3	93.2	93.6	94.0	94.2	
No		7.7	6.8	6.4	6.0	5.8	
Number of respondents		14,548	14,802	15,214	15,910	16,354	
<b>Percentage of Respondents Selecting Each Rating</b>							
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Obstetrics-Gynecology/Women's Health: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	3.0	6.8	13.7	37.5	39.1	16,380
All Medical Schools	2018	3.0	6.7	12.6	37.1	40.6	15,944
All Medical Schools	2017	2.8	6.7	13.8	38.4	38.3	15,193
All Medical Schools	2016	2.9	6.4	14.0	39.5	37.2	14,777
All Medical Schools	2015	2.9	6.8	14.2	39.3	36.9	14,529



		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>11. Clerkship Experiences: Pediatrics</b>						
<b>Pediatrics: Were you observed taking the relevant portions of the patient history?</b>						
Yes		90.0	91.4	92.2	92.8	93.2
No		10.0	8.6	7.8	7.2	6.8
Number of respondents		14,618	14,847	15,274	15,970	16,400
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Pediatrics: Were you observed performing the relevant portions of the physical or mental status exam?</b>						
Yes		91.9	92.8	93.5	94.1	94.6
No		8.1	7.2	6.5	5.9	5.4
Number of respondents		14,579	14,794	15,220	15,901	16,341
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Pediatrics: Were you provided with mid-clerkship feedback?</b>						
Yes		95.2	96.0	96.3	96.6	96.8
No		4.8	4.0	3.7	3.4	3.2
Number of respondents		14,571	14,808	15,210	15,908	16,348

		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Pediatrics: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	1.4	2.8	7.4	34.7	53.7	16,380
All Medical Schools	2018	1.2	2.7	7.1	34.1	54.8	15,948
All Medical Schools	2017	1.1	2.7	8.1	36.4	51.8	15,197
All Medical Schools	2016	1.2	2.8	7.6	35.6	52.9	14,765
All Medical Schools	2015	1.1	2.9	7.7	35.5	52.8	14,536

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>11. Clerkship Experiences: Psychiatry</b>						
<b>Psychiatry: Were you observed taking the relevant portions of the patient history?</b>						
Yes		90.4	91.7	92.5	93.2	93.8
No		9.6	8.3	7.5	6.8	6.2
Number of respondents		14,603	14,843	15,257	15,968	16,405
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Psychiatry: Were you observed performing the relevant portions of the physical or mental status exam?</b>						
Yes		89.1	90.6	91.5	92.5	92.6
No		10.9	9.4	8.5	7.5	7.4
Number of respondents		14,568	14,787	15,212	15,897	16,332
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Psychiatry: Were you provided with mid-clerkship feedback?</b>						
Yes		91.9	93.4	93.9	94.6	95.0
No		8.1	6.6	6.1	5.4	5.0
Number of respondents		14,549	14,799	15,206	15,885	16,332

		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Psychiatry: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	1.4	3.5	9.0	35.9	50.1	16,373
All Medical Schools	2018	1.4	3.5	8.7	35.5	50.9	15,926
All Medical Schools	2017	1.4	3.5	9.3	37.7	48.2	15,164
All Medical Schools	2016	1.5	3.8	9.8	37.3	47.6	14,748
All Medical Schools	2015	1.4	4.0	10.3	37.9	46.4	14,519

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>11. Clerkship Experiences: Surgery</b>						
<b>Surgery: Were you observed taking the relevant portions of the patient history?</b>						
Yes		68.7	72.4	74.4	74.9	77.6
No		31.3	27.6	25.6	25.1	22.4
Number of respondents		14,568	14,819	15,234	15,968	16,384
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Surgery: Were you observed performing the relevant portions of the physical or mental status exam?</b>						
Yes		76.6	78.8	80.4	81.0	82.8
No		23.4	21.2	19.6	19.0	17.2
Number of respondents		14,542	14,784	15,194	15,901	16,318
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
<b>Surgery: Were you provided with mid-clerkship feedback?</b>						
Yes		89.3	91.2	92.0	92.4	92.5
No		10.7	8.8	8.0	7.6	7.5
Number of respondents		14,544	14,792	15,205	15,904	16,337

		<b>Percentage of Respondents Selecting Each Rating</b>					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<b>Surgery: Faculty provided effective teaching during the clerkship</b>							
All Medical Schools	2019	3.5	7.5	15.1	37.0	36.9	16,361
All Medical Schools	2018	3.4	7.7	14.1	37.0	37.7	15,908
All Medical Schools	2017	3.3	7.8	15.0	38.1	35.8	15,169
All Medical Schools	2016	3.4	7.3	14.2	38.3	36.7	14,733
All Medical Schools	2015	3.3	7.9	14.5	38.5	35.9	14,502

**12. Indicate whether you agree or disagree with the following statements about your preparedness for beginning a residency program:**

		Percentage of Respondents Selecting Each Rating					Count
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	
I am confident that I have acquired the clinical skills required to begin a residency program.							
All Medical Schools	2019	0.6	1.9	6.8	44.1	46.5	16,180
All Medical Schools	2018	0.5	1.9	6.9	46.5	44.2	15,923
All Medical Schools	2017	0.5	1.8	7.6	46.8	43.3	15,137
All Medical Schools	2016	0.6	2.0	7.3	47.0	43.1	14,709
All Medical Schools	2015	0.5	2.2	8.0	48.3	40.9	14,384
I have the fundamental understanding of common conditions and their management encountered in the major clinical disciplines.							
All Medical Schools	2019	0.3	0.9	4.3	46.2	48.2	16,173
All Medical Schools	2018	0.3	1.0	5.1	49.8	43.9	15,914
All Medical Schools	2017	0.3	1.1	5.3	50.7	42.6	15,112
All Medical Schools	2016	0.4	1.0	5.4	50.3	42.9	14,684
All Medical Schools	2015	0.3	1.0	5.3	53.3	40.1	14,367
I have the communication skills necessary to interact with patients and health professionals.							
All Medical Schools	2019	0.2	0.2	1.3	21.8	76.6	16,164
All Medical Schools	2018	0.2	0.1	1.2	22.0	76.4	15,887
All Medical Schools	2017	0.2	0.2	1.5	24.6	73.5	15,083
All Medical Schools	2016	0.3	0.2	1.4	24.4	73.8	14,663
All Medical Schools	2015	0.1	0.2	1.4	26.7	71.5	14,337
I have basic skills in clinical decision making and the application of evidence based information to medical practice.							
All Medical Schools	2019	0.3	0.6	3.7	39.9	55.5	16,165
All Medical Schools	2018	0.3	0.7	4.7	43.1	51.3	15,884
All Medical Schools	2017	0.3	0.7	5.0	44.0	50.0	15,056
All Medical Schools	2016	0.4	0.8	4.8	44.9	49.1	14,622
All Medical Schools	2015	0.3	0.8	5.1	48.4	45.4	14,304
I have a fundamental understanding of the issues in social sciences of medicine (e.g., ethics, humanism, professionalism, organization and structure of the health care system).							
All Medical Schools	2019	0.3	1.1	4.1	34.4	60.2	16,171
All Medical Schools	2018	0.4	1.1	4.9	37.4	56.2	15,913
All Medical Schools	2017	0.3	1.0	5.1	38.1	55.5	15,110
All Medical Schools	2016	0.4	1.2	5.0	39.0	54.3	14,683
All Medical Schools	2015	0.3	1.0	5.4	42.9	50.4	14,369
I understand the ethical and professional values that are expected of the profession.							
All Medical Schools	2019	0.2	0.2	1.4	24.1	74.0	16,154
All Medical Schools	2018	0.2	0.2	1.4	25.8	72.4	15,898
All Medical Schools	2017	0.3	0.2	1.6	27.9	70.1	15,098
All Medical Schools	2016	0.3	0.2	1.5	27.8	70.2	14,666
All Medical Schools	2015	0.2	0.1	1.6	31.0	67.1	14,348
I believe I am adequately prepared to care for patients from different backgrounds.							
All Medical Schools	2019	0.3	0.6	2.8	29.4	67.0	16,137
All Medical Schools	2018	0.3	0.7	3.1	31.8	64.1	15,870
All Medical Schools	2017	0.3	0.6	3.8	33.1	62.3	15,112
All Medical Schools	2016	0.4	0.7	3.4	33.4	62.1	14,675
All Medical Schools	2015	0.2	0.6	3.9	39.7	55.7	14,356

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>13.</b>	<b>Have you had a clinical training experience during medical school at a Department of Veterans Affairs medical facility?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	59.0	60.5	58.9	57.9	57.0
	No	41.0	39.5	41.1	42.1	43.0
	Number of respondents	14,564	14,705	15,137	15,913	16,116
	<b>How would you rate the value of your Department of Veterans Affairs clinical training experience?</b>					
	<b>Note: Only those who responded "Yes" to the prior question could respond to this item.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Poor	2.7	2.6	2.4	3.0	3.0
	Fair	5.6	5.6	6.0	6.3	6.9
	Adequate	20.9	21.6	21.8	23.6	24.4
	Very Good	36.9	38.0	37.1	35.9	35.6
	Excellent	33.8	32.2	32.7	31.1	30.0
	Number of respondents	8,590	8,881	8,892	9,191	9,169
<b>14.</b>	<b>Indicate the activities you will have participated in during medical school on an elective (for credit) or volunteer (not required) basis:</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Independent study project for credit	32.5	46.6	47.8	50.4	53.7
	Research project with faculty member	69.4	74.1	77.3	78.8	80.9
	Authorship (sole or joint) of a peer-reviewed paper submitted for publication	47.8	46.5	48.6	50.5	54.0
	Authorship (sole or joint) of a peer-reviewed oral or poster presentation	52.5	50.3	53.3	56.7	60.6
	Global health experience	31.2	28.0	27.1	25.9	24.2
	Educating elementary, high school or college students about careers in health professions or biological sciences	44.7	48.4	49.6	51.6	53.7
	Providing health education (e.g., HIV/AIDS education, breast cancer awareness, smoking cessation, obesity)	60.5	61.5	61.6	63.1	64.5
	Field experience in providing health education in the community (e.g., adult/child protective services, family violence program, rape crisis hotline)	36.2	35.0	36.0	35.8	35.5
	Field experience in home care	32.6	33.3	33.2	33.2	31.3
	Learned another language in order to improve communication with patients	23.7	23.9	24.8	24.7	24.9
	Learned the proper use of the interpreter when needed	73.1	79.4	79.7	83.5	84.3
	Experience related to health disparities	61.7	75.2	76.6	79.7	79.0
	Experience related to cultural awareness and cultural competence	64.2	72.4	73.7	75.9	74.9
	Community-based research project	26.0	31.4	31.8	33.4	32.7
	Field experience in nursing home care	31.9	31.8	31.2	31.9	29.0
	Experience with a free clinic for the underserved population	73.5	73.0	72.3	74.7	74.1
	Other	1.9	2.3	2.5	1.9	1.6
	Number of respondents	14,551	14,701	15,132	15,932	16,126

**15. Indicate whether you agree or disagree with the following statement:**

		Percentage of Respondents Selecting Each Rating					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
I received appropriate guidance in the selection of electives.							
All Medical Schools	2019	3.2	8.5	16.5	43.8	28.0	15,972
All Medical Schools	2018	2.8	8.4	17.7	44.4	26.7	15,595
All Medical Schools	2017	2.8	8.2	17.7	45.3	26.1	14,862
All Medical Schools	2016	3.3	9.4	19.2	45.2	22.9	14,607
All Medical Schools	2015	3.9	11.7	20.4	43.2	20.9	14,445

**16. Based on your experiences, indicate whether you agree or disagree with the following statements:**

		Percentage of Respondents Selecting Each Rating					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
My knowledge or opinion was influenced or changed by becoming more aware of the perspectives of individuals from different backgrounds.							
All Medical Schools	2019	0.6	1.7	7.9	43.2	46.6	16,025
All Medical Schools	2018	0.8	2.1	11.0	45.6	40.6	15,844
All Medical Schools	2017	0.6	2.2	11.5	46.5	39.3	15,008
All Medical Schools	2016	0.9	2.7	13.4	47.9	35.1	14,557
All Medical Schools	2015	1.0	2.1	11.5	47.7	37.7	14,435
The diversity within my medical school class enhanced my training and skills to work with individuals from different backgrounds.							
All Medical Schools	2019	3.3	8.2	17.7	34.3	36.6	16,019
All Medical Schools	2018	3.6	8.8	21.3	34.5	31.8	15,838
All Medical Schools	2017	3.7	9.0	20.9	35.5	31.0	15,029
All Medical Schools	2016	4.1	10.4	23.4	35.4	26.6	14,580
All Medical Schools	2015	4.1	10.2	23.7	35.8	26.2	14,454

**All Schools**

**2019**

**17. By the time you have graduated from medical school, will you have completed any away rotations? Include only rotations that were not required by your medical school for graduation AND were at institutions not affiliated with your medical school.**

	Percent
Yes	55.5
No	44.5
Number of respondents	16,034

**18. Number of Away Rotations**

	Percent
Zero away rotations	44.6
One	22.0
Two	20.3
Three	9.8
Four or more	3.3
Number of respondents	15,992

### 19. Learning Environment Scales

A shortened version of the Medical School Learning Environment Survey (MSLES) instrument consists of 7 items measuring two dimensions of the learning environment – emotional climate, and student-faculty interaction. Each subscale is calculated by summing across the items, which are measured on a 0-5 point scale. **Higher scores for each subscale indicate more positive perceptions of the learning environment.** Only participants who responded to every item on the scale are included in the summary statistics. For each subscale, the mean score, the standard deviation, and the number of respondents are displayed below. Additionally, a reliability estimate (Cronbach’s alpha) is shown as a measure of internal consistency. The measure varies from 0 to 1, and an instrument is often considered to be reliable if the estimate is 0.7 or higher.

#### Emotional Climate

The emotional climate subscale combines the responses of three items assessing a student’s affective response to the learning environment. These questions ask to what extent [or, how often] the educational experience leads to a sense of achievement, valuing oneself, and confidence in one’s academic abilities. The possible range of responses for the emotional climate subscale is 0 to 15. Higher scores are correlated with positive perceptions of the learning environment.

		Reliability Estimate	Mean	Standard Deviation	Count
All Medical Schools	2019	0.9	9.6	3.3	15,875
All Medical Schools	2018	0.9	9.5	3.2	15,635
All Medical Schools	2017	0.9	9.6	3.2	14,747
All Medical Schools	2016	0.9	9.7	3.2	14,272

#### Student-Faculty Interaction

The student-faculty interaction subscale combines responses to four items assessing a student’s perception of faculty supportiveness. In addition to asking about perceived distance between faculty and students, these questions ask to what extent students feel that faculty are helpful when providing academic advice, when providing non-academic advice, and when answering questions and providing criticism. The possible range of responses for the student-faculty interaction subscale is 0 to 20, and higher scores are correlated with positive perceptions of the learning environment.

		Reliability Estimate	Mean	Standard Deviation	Count
All Medical Schools	2019	0.8	14.5	3.4	15,782
All Medical Schools	2018	0.8	14.3	3.4	15,538
All Medical Schools	2017	0.8	14.3	3.4	14,621
All Medical Schools	2016	0.8	14.2	3.4	14,184

**20. Think about how often you experience[d] the following at your medical school. Determine your response by choosing one of the categories of frequency given below. Choose the category that best approximates your perceptions.**

		Percentage of Respondents Selecting Each Rating						
		Never	Almost never	Sometimes	Fairly often	Very often	Always	Count
There are disconnects between what I am taught about professional behaviors/attitudes and what I see being demonstrated by faculty.								
All Medical Schools	2019	7.6	35.6	35.0	9.7	8.3	3.8	15,923
All Medical Schools	2018	7.7	37.6	34.4	9.4	7.5	3.4	15,722
All Medical Schools	2017	8.0	36.8	34.7	9.4	7.8	3.3	14,836
All Medical Schools	2016	7.3	36.7	35.0	9.6	7.8	3.6	14,374

**21. Please rate how often the following professional behaviors/attitudes are demonstrated by your medical school's faculty.**

		Percentage of Respondents Selecting Each Rating						
		Never	Almost never	Sometimes	Fairly often	Very often	Always	Count
<b>Respecting patient confidentiality</b>								
All Medical Schools	2019	0.1	0.1	1.7	6.8	36.6	54.7	15,869
All Medical Schools	2018	0.1	0.1	1.4	6.9	36.9	54.7	15,666
All Medical Schools	2017	0.1	0.1	1.8	7.3	38.3	52.5	14,760
All Medical Schools	2016	0.1	0.1	1.7	7.2	39.1	51.8	14,276
<b>Using professional language/avoiding derogatory language</b>								
All Medical Schools	2019	0.6	1.6	3.8	12.8	47.3	33.9	15,872
All Medical Schools	2018	0.6	1.3	3.7	12.3	47.2	34.9	15,667
All Medical Schools	2017	0.4	1.0	3.7	12.9	47.5	34.5	14,754
All Medical Schools	2016	0.4	1.3	3.6	13.2	47.3	34.1	14,262
<b>Being respectful of house staff and other physicians</b>								
All Medical Schools	2019	0.1	0.3	3.4	14.4	48.9	32.9	15,862
All Medical Schools	2018	0.1	0.4	3.8	13.8	49.4	32.5	15,655
All Medical Schools	2017	0.1	0.3	3.7	14.6	50.1	31.3	14,752
All Medical Schools	2016	0.2	0.3	3.7	14.8	50.7	30.3	14,262
<b>Respecting diversity</b>								
All Medical Schools	2019	0.2	0.6	4.6	13.5	40.9	40.2	15,855
All Medical Schools	2018	0.1	0.6	4.7	12.7	41.3	40.7	15,632
All Medical Schools	2017	0.1	0.5	4.5	12.6	41.7	40.6	14,723
All Medical Schools	2016	0.2	0.5	4.4	12.7	42.4	39.9	14,237
<b>Being respectful of other health professions</b>								
All Medical Schools	2019	0.1	0.4	4.9	16.7	45.7	32.3	15,828
All Medical Schools	2018	0.1	0.5	5.3	16.7	46.3	31.2	15,579
All Medical Schools	2017	0.1	0.4	5.4	16.9	46.1	31.1	14,677
All Medical Schools	2016	0.2	0.5	5.1	17.1	46.3	30.9	14,198
<b>Being respectful of other specialties</b>								
All Medical Schools	2019	0.1	1.0	9.6	26.2	43.5	19.6	15,871
All Medical Schools	2018	0.2	1.1	10.2	27.1	42.6	18.8	15,658
All Medical Schools	2017	0.2	1.3	10.0	26.5	44.4	17.6	14,752
All Medical Schools	2016	0.2	1.2	10.7	27.1	43.5	17.2	14,268
<b>Providing direction and constructive feedback</b>								
All Medical Schools	2019	0.2	1.5	11.6	24.8	41.5	20.4	15,860
All Medical Schools	2018	0.2	1.7	12.5	26.5	39.4	19.7	15,647
All Medical Schools	2017	0.2	1.9	12.0	25.4	42.2	18.3	14,743
All Medical Schools	2016	0.3	1.7	12.8	25.4	41.3	18.6	14,251
<b>Showing respectful interaction with students</b>								
All Medical Schools	2019	0.1	0.4	6.0	19.3	49.8	24.4	15,859
All Medical Schools	2018	0.1	0.4	5.8	19.5	49.5	24.7	15,642
All Medical Schools	2017	0.1	0.5	6.0	19.3	50.5	23.5	14,729
All Medical Schools	2016	0.2	0.4	6.2	19.4	50.6	23.2	14,243



**21. Please rate how often the following professional behaviors/attitudes are demonstrated by your medical school's faculty. (Continued)**

		Percentage of Respondents Selecting Each Rating						
		Never	Almost never	Sometimes	Fairly often	Very often	Always	Count
<b>Showing empathy and compassion</b>								
All Medical Schools	2019	0.1	0.4	5.9	19.8	49.7	24.0	15,847
All Medical Schools	2018	0.1	0.5	5.9	19.7	49.8	24.0	15,638
All Medical Schools	2017	0.1	0.5	6.1	20.4	50.0	22.7	14,718
All Medical Schools	2016	0.2	0.5	6.2	20.5	50.2	22.4	14,239
<b>Being respectful of patients' dignity and autonomy</b>								
All Medical Schools	2019	0.1	0.3	3.9	14.9	46.5	34.3	15,816
All Medical Schools	2018	0.1	0.3	3.8	14.3	46.8	34.7	15,581
All Medical Schools	2017	0.1	0.3	4.1	14.7	48.4	32.4	14,676
All Medical Schools	2016	0.1	0.3	4.3	15.4	48.6	31.2	14,168
<b>Actively listened and showed interest in patients</b>								
All Medical Schools	2019	0.1	0.3	4.3	17.5	51.9	26.0	15,864
All Medical Schools	2018	0.1	0.3	4.4	17.8	51.7	25.7	15,654
All Medical Schools	2017	0.1	0.3	4.7	18.2	52.9	23.9	14,748
All Medical Schools	2016	0.1	0.3	4.7	17.9	53.4	23.7	14,260
<b>Taking time and effort to explain information to patients</b>								
All Medical Schools	2019	0.1	0.7	6.9	21.5	47.9	22.9	15,861
All Medical Schools	2018	0.1	0.7	7.3	23.0	46.9	22.0	15,638
All Medical Schools	2017	0.1	0.8	7.6	22.4	48.6	20.5	14,734
All Medical Schools	2016	0.1	0.8	8.1	22.3	48.6	20.1	14,247
<b>Advocating appropriately on behalf of his/her patients</b>								
All Medical Schools	2019	0.1	0.5	5.2	16.0	48.8	29.4	15,852
All Medical Schools	2018	0.1	0.4	4.8	17.3	47.8	29.6	15,630
All Medical Schools	2017	0.1	0.4	5.5	17.0	49.2	27.8	14,728
All Medical Schools	2016	0.1	0.4	5.5	17.1	49.7	27.2	14,234
<b>Resolving conflicts in ways that respect the dignity of all involved</b>								
All Medical Schools	2019	0.1	0.4	5.0	16.8	49.7	28.0	15,827
All Medical Schools	2018	0.1	0.4	4.9	17.5	49.5	27.6	15,605
All Medical Schools	2017	0.1	0.4	4.9	17.3	50.4	26.8	14,713
All Medical Schools	2016	0.1	0.4	5.2	17.2	51.3	25.8	14,225

**22. Indicate whether you agree or disagree with the following statements.**

		Percentage of Respondents Selecting Each Rating					Count
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	
My medical school has done a good job of fostering and nurturing my development as a person							
All Medical Schools	2019	2.8	6.3	18.6	40.4	31.9	15,746
All Medical Schools	2018	2.7	6.3	18.9	40.9	31.2	15,427
All Medical Schools	2017	2.2	6.0	17.9	40.1	33.8	13,908
All Medical Schools	2016	2.5	5.7	17.3	41.7	32.9	13,533
My medical school has done a good job of fostering and nurturing my development as a future physician							
All Medical Schools	2019	0.7	1.6	5.9	44.0	47.8	15,849
All Medical Schools	2018	0.7	1.5	6.0	44.0	47.7	15,624
All Medical Schools	2017	0.7	1.5	6.0	42.3	49.5	14,749
All Medical Schools	2016	0.7	1.5	5.9	43.3	48.6	14,263

**23. Tolerance for Ambiguity (TFA) Scale**

Tolerance for Ambiguity (TFA) is a measure of one's ability to cope with situations of uncertainty. Scales measuring TFA have been used in prior research to show how ambiguity impacts medical education and medical care. TFA scores are calculated by summing across 7 items, which are measured on a 1-6 point scale. **The possible range of scores is 7 to 42, and higher scores are correlated with higher tolerance for ambiguity.** Only participants who responded to every item on the scale are included in the summary statistics. The mean TFA score, the standard deviation, and the number of respondents are displayed below. Additionally, a reliability estimate (Cronbach's alpha) is shown as a measure of internal consistency. The measure varies from 0 to 1, and an instrument is considered to be reliable if the estimate is 0.7 or higher.

Tolerance for Ambiguity (TFA) Scale		Reliability Estimate	Mean	Standard Deviation	Count
All Medical Schools	2019	0.8	24.9	6.0	15,602
All Medical Schools	2018	0.8	24.7	6.1	15,331
All Medical Schools	2017	0.8	24.8	6.1	14,415
All Medical Schools	2016	0.8	24.8	6.2	13,894

**24. Interpersonal Reactivity Index (IRI)**

The Interpersonal Reactivity Index (IRI) is a measure of individual differences in empathy. Scales measuring empathy have been used in prior research to show how levels of empathy may change throughout medical education. For Y2Q purposes, the IRI consists of 8 items. These include 4 items from each of the IRI subscales – perspective taking and empathic concern. IRI scores are calculated by summing across the 8 items, which are measured on a 0-4 point scale. **The possible range of scores is 0 to 32, and higher scores are correlated with higher levels of empathy.** Only participants who responded to every item on the scale are included in the summary statistics. The mean IRI score, the standard deviation, and the number of respondents are displayed below. Additionally, a reliability estimate (Cronbach's alpha) is shown as a measure of internal consistency. The measure varies from 0 to 1, and an instrument is considered to be reliable if the estimate is 0.7 or higher.

Interpersonal Reactivity Index (IRI)		Reliability Estimate	Mean	Standard Deviation	Count
All Medical Schools	2019	0.8	24.1	4.6	15,561
All Medical Schools	2018	0.8	23.9	4.6	15,233
All Medical Schools	2017	0.8	23.8	4.6	14,289
All Medical Schools	2016	0.8	23.6	4.7	13,822

## 25. Oldenburg Burnout Inventory for Medical Students Scale

The Oldenburg Burnout Inventory for Medical Students (OLBI-MS) is a modified and shortened version of the Oldenburg Burnout Inventory (OLBI). The OLBI-MS instrument consists of 16 items measuring two dimensions of burnout – exhaustion and disengagement. Each subscale is calculated by summing across the items, which are measured on a 0-3 point scale.

**Higher scores are correlated with higher levels of burnout.** Only participants who responded to every item on the scale are included in the summary statistics. For each subscale, the mean score, the standard deviation, and the number of respondents are displayed below. Additionally, a reliability estimate (Cronbach’s alpha) is shown as a measure of internal consistency. The measure varies from 0 to 1, and an instrument is often considered to be reliable if the estimate is 0.7 or higher.

### Disengagement

The disengagement subscale includes eight items on a 0-3 point scale and refers to distancing oneself from the object and content of medical school work and to negative attitudes toward medical school in general. The possible range of responses for the disengagement subscale is 0 to 24, and higher scores are correlated with higher levels of burnout.

		Reliability Estimate	Mean	Standard Deviation	Count
All Medical Schools	2019	0.8	9.9	3.7	15,475
All Medical Schools	2018	0.8	9.9	3.7	15,251
All Medical Schools	2017	0.8	9.8	3.7	14,196
All Medical Schools	2016	0.8	9.8	3.6	13,691

### Exhaustion

The exhaustion subscale includes eight items on a 0-3 point scale and refers to the cognitive and physical strain as a consequence of the demands of medical school. The possible range of responses for the exhaustion subscale is 0 to 24, and higher scores are correlated with higher levels of burnout.

		Reliability Estimate	Mean	Standard Deviation	Count
All Medical Schools	2019	0.8	11.1	3.8	15,477
All Medical Schools	2018	0.8	11.1	3.6	15,198
All Medical Schools	2017	0.8	11.1	3.7	14,139
All Medical Schools	2016	0.8	11.1	3.6	13,689

### All Schools

	2015	2016	2017	2018	2019
<b>26. In which of the following activities do you plan to participate during your career?</b>					
<b>Note: Percentages may not sum to 100% as multiple responses are allowed.</b>					
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Patient Care	97.9	97.2	97.1	97.2	97.4
Research	59.7	52.2	52.9	51.3	51.8
Teaching	85.3	83.6	83.1	82.9	82.5
Medical School Faculty	45.5	45.3	45.0	44.7	44.8
Administration (e.g., Department Chair, Dean)	26.6	28.6	28.3	28.5	27.9
Military Service	4.7	4.8	4.1	4.3	4.3
Public Health	25.0	28.0	29.8	31.6	30.2
Other	2.2	3.5	3.2	3.1	2.6
Number of respondents	13,909	13,990	14,485	15,430	15,673

		All Schools				
		2015	2016	2017	2018	2019
<b>27.</b>	<b>Do you anticipate providing patient care full-time or part-time?</b>					
	<b>Note: Only those who selected "Patient Care" at Q26 could respond to this item.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Full-time (at least 36 hours a week)	89.7	88.2	88.4	89.5	89.4
	Part-time (less than 36 hours a week)	10.3	11.8	11.6	10.5	10.6
	Number of respondents	13,594	13,567	14,032	14,940	15,218
<b>28.</b>	<b>How exclusively do you expect to be involved in research?</b>					
	<b>Note: Only those who selected "Research" at Q26 could respond to this item.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Full-time	2.5	2.8	2.5	3.1	2.8
	Significantly involved	42.2	44.5	44.1	44.4	44.9
	Involved in a limited way	55.3	52.6	53.4	52.4	52.4
	Number of respondents	8,301	7,294	7,647	7,900	8,103
<b>29.</b>	<b>When thinking about your career, what is your intended area of practice?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Anesthesiology or subspecialty	6.2	5.7	5.5	5.8	6.0
	Child Neurology					0.6
	Dermatology or subspecialty	2.4	2.4	2.4	2.2	2.3
	Emergency Medicine or subspecialty	8.4	8.8	9.4	9.1	9.3
	Family Medicine or subspecialty	8.5	8.6	8.7	9.3	8.7
	Internal Medicine or subspecialty	20.0	19.6	19.0	18.5	19.2
	Internal Medicine/Pediatrics	1.9	2.0	1.8	1.8	1.9
	Medical Genetics or subspecialty	0.1	0.1	0.0	0.1	0.1
	Neurological Surgery	1.2	1.3	1.0	1.2	1.3
	Neurology or subspecialty	2.6	3.1	2.9	3.1	2.4
	Nuclear Medicine	0.0	0.0	0.0	0.0	0.0
	Obstetrics and Gynecology or subspecialty	6.1	5.9	6.3	6.3	6.6
	Ophthalmology or subspecialty	2.5	2.5	2.3	2.4	2.2
	Orthopaedic Surgery or subspecialty	4.7	4.5	4.2	4.1	4.0
	Otolaryngology or subspecialty	2.0	1.8	1.6	1.7	1.9
	Pathology or subspecialty	1.5	1.4	1.2	1.3	1.1
	Pediatrics or subspecialty	11.6	11.3	11.2	10.3	9.8
	Physical Medicine and Rehabilitation or subspecialty	1.0	1.2	1.4	1.4	1.1
	Plastic Surgery or subspecialty	0.8	0.9	1.0	0.8	0.9
	Preventive Medicine or subspecialty	0.1	0.1	0.1	0.1	0.1
	Psychiatry or subspecialty	4.4	4.9	5.3	5.6	5.9
	Radiation Oncology	1.0	0.9	1.0	1.0	0.8
	Radiology or subspecialty	3.7	4.1	4.5	4.7	4.4
	Surgery - General Surgery or subspecialty	6.2	6.1	6.2	6.1	6.3
	Thoracic Surgery or subspecialty	0.5	0.4	0.4	0.5	0.5
	Urology or subspecialty	1.6	1.6	1.6	1.7	1.7
	Vascular Surgery	0.3	0.3	0.3	0.3	0.3
	Undecided	0.5	0.5	0.4	0.3	0.5
	I do not plan to practice medicine	0.2	0.2	0.2	0.2	0.2
	Number of respondents	13,939	14,029	14,526	15,452	15,706

		All Schools				
		2015	2016	2017	2018	2019
<b>30. Do you plan, at some point in your career, to work as a hospitalist (i.e., full-time care of hospitalized patients)?</b>		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	18.4	18.9	17.6	19.4	19.0
	No	44.5	44.8	46.9	46.2	46.3
	Not sure	37.1	36.3	35.5	34.4	34.7
	Number of respondents	13,923	14,006	14,513	15,438	15,706

**31. How useful were the following resources in learning about specialty choice and career planning?**

		Percentage of Respondents Selecting Each Rating					Count
		Did not use	Not useful	Somewhat useful	Moderately useful	Very useful	
<b>Advising/Mentoring</b>							
All Medical Schools	2019	4.9	5.9	14.7	27.1	47.4	15,653
All Medical Schools	2018	5.0	6.3	14.8	27.8	46.1	15,414
All Medical Schools	2017	5.6	5.5	13.8	27.5	47.5	14,430
All Medical Schools	2016	5.8	6.0	13.5	27.4	47.4	13,930
All Medical Schools	2015	7.3	5.2	12.9	29.2	45.3	13,878
<b>AAMC's Careers in Medicine website</b>							
All Medical Schools	2019	29.7	9.5	25.0	23.8	11.9	15,643
All Medical Schools	2018	29.1	9.5	25.0	24.5	11.9	15,412
All Medical Schools	2017	30.2	8.2	23.7	24.9	13.0	14,395
All Medical Schools	2016	31.4	8.4	23.7	23.6	12.9	13,900
All Medical Schools	2015	28.7	5.5	19.5	28.6	17.8	13,839
<b>Specialty interest group-sponsored panels and presentations</b>							
All Medical Schools	2019	13.0	6.2	23.2	32.8	24.8	15,644
All Medical Schools	2018	13.1	5.7	23.1	32.6	25.4	15,402
All Medical Schools	2017	14.1	5.8	21.9	33.8	24.4	14,422
All Medical Schools	2016	15.0	6.1	22.7	32.8	23.5	13,901
All Medical Schools	2015	15.4	4.0	16.9	33.6	30.2	13,849
<b>School-sponsored career planning workshops and courses</b>							
All Medical Schools	2019	26.2	10.3	23.7	26.2	13.7	15,628
All Medical Schools	2018	26.8	9.8	22.7	27.1	13.5	15,374
All Medical Schools	2017	28.6	9.7	21.6	27.2	12.9	14,416
All Medical Schools	2016	29.2	9.2	22.7	26.3	12.6	13,899
All Medical Schools	2015	31.8	7.4	16.6	27.4	16.7	13,841
<b>Participation in in-house and extramural electives</b>							
All Medical Schools	2019	13.3	4.4	12.4	25.9	44.0	15,620
All Medical Schools	2018	13.8	4.0	12.2	25.7	44.3	15,386
All Medical Schools	2017	13.9	3.8	11.4	26.4	44.5	14,439
All Medical Schools	2016	13.9	3.7	11.3	25.9	45.0	13,925
All Medical Schools	2015	16.7	2.9	9.0	24.5	46.9	13,850
<b>Other publications and web-based resources</b>							
All Medical Schools	2019	21.4	5.0	21.3	31.0	21.3	15,608
All Medical Schools	2018	22.4	4.8	21.2	30.7	20.9	15,347
All Medical Schools	2017	22.6	4.5	21.6	31.6	19.9	14,397
All Medical Schools	2016	23.5	4.4	21.1	32.1	18.9	13,895
All Medical Schools	2015	24.9	2.4	15.4	33.4	23.9	13,833

**32. How influential were the following in helping you choose your specialty?**

		Percentage of Respondents Selecting Each Rating				
		No influence	Minor influence	Moderate influence	Strong influence	Count
<b>Competitiveness of specialty</b>						
All Medical Schools	2019	30.0	30.7	29.7	9.5	15,663
All Medical Schools	2018	30.0	31.2	29.9	9.0	15,414
All Medical Schools	2017	29.7	30.9	30.4	9.0	14,462
All Medical Schools	2016	29.7	29.8	31.1	9.3	13,969
All Medical Schools	2015	30.8	28.7	30.6	10.0	13,897
<b>Level of educational debt</b>						
All Medical Schools	2019	54.9	23.2	15.4	6.5	15,654
All Medical Schools	2018	55.3	23.4	15.0	6.3	15,400
All Medical Schools	2017	54.5	24.0	15.3	6.2	14,438
All Medical Schools	2016	52.9	24.0	15.9	7.2	13,943
All Medical Schools	2015	51.8	24.0	16.4	7.8	13,880
<b>Role model influence</b>						
All Medical Schools	2019	7.6	11.4	30.1	50.9	15,653
All Medical Schools	2018	7.6	11.8	29.7	50.8	15,400
All Medical Schools	2017	7.4	12.0	30.1	50.4	14,454
All Medical Schools	2016	6.9	11.4	29.5	52.2	13,942
All Medical Schools	2015	7.6	11.0	28.8	52.6	13,888
<b>Options for fellowship training</b>						
All Medical Schools	2019	19.2	19.4	29.4	32.0	15,646
All Medical Schools	2018	19.9	19.8	29.1	31.2	15,385
All Medical Schools	2017	18.8	19.9	30.0	31.2	14,432
All Medical Schools	2016	18.2	19.1	30.3	32.5	13,938
All Medical Schools	2015	18.1	17.6	29.9	34.5	13,871
<b>Income expectations</b>						
All Medical Schools	2019	21.3	30.7	33.1	14.8	15,653
All Medical Schools	2018	22.7	31.8	32.0	13.5	15,403
All Medical Schools	2017	22.5	32.1	32.3	13.2	14,457
All Medical Schools	2016	22.2	31.1	32.8	13.9	13,965
All Medical Schools	2015	22.2	30.8	32.8	14.2	13,890
<b>Length of residency training</b>						
All Medical Schools	2019	25.2	31.4	29.9	13.5	15,661
All Medical Schools	2018	25.0	32.8	29.6	12.7	15,397
All Medical Schools	2017	24.4	32.6	30.8	12.2	14,461
All Medical Schools	2016	24.3	32.5	30.1	13.1	13,959
All Medical Schools	2015	24.0	31.9	31.3	12.8	13,896
<b>Family expectations</b>						
All Medical Schools	2019	49.1	21.4	17.8	11.6	15,655
All Medical Schools	2018	48.2	21.6	18.5	11.6	15,395
All Medical Schools	2017	45.2	23.2	19.8	11.9	14,462
All Medical Schools	2016	44.5	22.7	19.9	12.9	13,958
All Medical Schools	2015	43.5	22.1	20.5	13.9	13,890

**32. How influential were the following in helping you choose your specialty? (Continued)**

		Percentage of Respondents Selecting Each Rating				
		No influence	Minor influence	Moderate influence	Strong influence	Count
<b>My future family plans</b>						
All Medical Schools	2019	21.9	21.4	29.8	26.9	15,656
All Medical Schools	2018	20.5	21.0	30.8	27.7	15,409
All Medical Schools	2017	18.7	21.1	32.4	27.8	14,457
All Medical Schools	2016	17.9	19.9	32.3	29.9	13,954
All Medical Schools	2015	17.7	19.6	31.8	31.0	13,888
<b>Work/Life balance</b>						
All Medical Schools	2019	6.3	16.6	34.0	43.1	15,660
All Medical Schools	2018	6.3	16.3	33.2	44.2	15,400
All Medical Schools	2017	6.0	15.8	35.4	42.8	14,453
All Medical Schools	2016	5.9	15.3	35.1	43.8	13,931
All Medical Schools	2015	6.3	15.2	33.8	44.7	13,875
<b>Fit with personality, interests, and skills</b>						
All Medical Schools	2019	0.4	1.1	11.3	87.2	15,665
All Medical Schools	2018	0.4	1.2	10.8	87.6	15,418
All Medical Schools	2017	0.4	1.1	11.5	87.1	14,462
All Medical Schools	2016	0.4	1.1	11.4	87.0	13,960
All Medical Schools	2015	0.4	0.9	9.6	89.0	13,907
<b>Content of specialty</b>						
All Medical Schools	2019	0.5	1.6	14.6	83.4	15,645
All Medical Schools	2018	0.4	1.5	14.3	83.8	15,388
All Medical Schools	2017	0.6	1.5	16.3	81.6	14,455
All Medical Schools	2016	0.5	1.6	16.0	81.9	13,945
All Medical Schools	2015	0.5	1.4	13.7	84.4	13,892

**All Schools**

**33. Where do you hope to work after completing your medical training?**

**Note: The response options were revised in 2016. "Undecided" was added and other locations were discontinued or consolidated.**

	2016	2017	2018	2019
Alabama	1.0	0.9	0.9	0.6
Alaska	0.2	0.2	0.2	0.2
Arizona	1.0	0.8	1.0	0.9
Arkansas	0.3	0.2	0.6	0.4
California	14.3	15.0	13.9	12.5
Colorado	2.2	2.0	2.2	1.9
Connecticut	0.4	0.6	0.5	0.4
Delaware	0.0	0.1	0.1	0.0
District of Columbia	0.8	0.8	1.1	0.8
Florida	3.7	3.7	3.4	3.3
Georgia	1.5	1.9	2.2	2.0
Hawaii	0.5	0.4	0.5	0.6
Idaho	0.2	0.3	0.3	0.2
Iowa	0.6	0.3	0.3	0.3
Illinois	3.6	3.5	3.3	3.0
Indiana	0.6	0.6	0.8	0.7
Kansas	0.7	0.5	0.6	0.6
Kentucky	0.7	0.8	0.8	0.6

	All Schools			
	2016	2017	2018	2019
<b>33. Where do you hope to work after completing your medical training?</b>				
<b>Note: The response options were revised in 2016. "Undecided" was added and other locations were discontinued or consolidated. (Continued)</b>				
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Louisiana	1.0	1.0	1.1	0.9
Maine	0.3	0.3	0.3	0.3
Maryland	1.3	1.0	1.1	1.0
Massachusetts	2.9	3.7	3.0	2.7
Michigan	2.2	2.6	2.4	2.3
Minnesota	1.7	1.6	1.6	1.7
Mississippi	0.4	0.4	0.3	0.4
Missouri	1.1	1.0	0.9	0.7
Montana	0.3	0.3	0.3	0.3
Nebraska	0.4	0.4	0.4	0.4
Nevada	0.2	0.2	0.3	0.2
New Hampshire	0.1	0.1	0.1	0.1
New Jersey	1.0	0.9	0.9	0.9
New Mexico	0.4	0.4	0.3	0.3
New York	6.6	6.1	6.6	6.0
North Carolina	2.7	2.5	2.7	2.2
North Dakota	0.1	0.0	0.2	0.1
Ohio	2.2	2.0	2.4	1.9
Oklahoma	0.5	0.3	0.3	0.3
Oregon	1.1	1.1	0.9	0.8
Pennsylvania	3.0	3.7	3.7	2.9
Puerto Rico	0.7	0.7	0.7	0.6
Rhode Island	0.1	0.1	0.2	0.2
South Carolina	1.0	1.1	1.0	0.7
South Dakota	0.2	0.3	0.2	0.3
Tennessee	1.2	1.3	1.1	1.0
Texas	6.6	5.9	6.3	5.5
Utah	0.8	0.8	0.8	0.7
Vermont	0.3	0.2	0.2	0.1
Virginia	1.4	1.5	1.6	1.1
Washington	2.2	2.2	1.9	1.5
West Virginia	0.2	0.4	0.3	0.3
Wisconsin	1.0	1.2	1.0	1.1
Wyoming	0.1	0.2	0.1	0.1
U.S. Territory/Possession	0.1	0.0	0.1	0.1
Canada	0.2	0.3	0.3	0.2
Other Foreign Country	0.6	0.7	0.7	0.5
Undecided	21.7	20.6	21.0	30.6
Number of respondents	12,018	12,242	13,294	13,057



		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>34.</b>	<b>Please indicate the setting in which you plan to work after the completion of your medical education and training:</b> <b>Note: In 2015, "Suburb of moderate size city" was inadvertently omitted from the response options.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Large city (population 500,000 or more)	41.5	38.6	39.7	40.7	39.9
	Suburb of a large city	14.8	14.1	13.1	13.4	13.0
	City of moderate size (population 50,000 to 500,000)	23.3	21.3	21.5	21.0	21.3
	Suburb of moderate size city		4.8	4.9	4.7	4.7
	Small city (population 10,000 to 50,000--other than suburb)	4.8	4.0	4.2	4.1	3.7
	Town (population 2,500 to 10,000--other than suburb)	1.9	1.7	1.8	1.7	1.8
	Small town (population less than 2,500)	0.5	0.6	0.6	0.6	0.7
	Rural/unincorporated area	1.1	1.1	1.2	1.1	1.0
	Undecided or no preference	12.2	13.8	13.0	12.6	13.8
	Number of respondents	13,889	13,968	14,477	15,391	15,660
<b>35.</b>	<b>Do you plan to work primarily in an underserved area?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	22.3	23.1	25.5	26.4	26.9
	No	29.8	28.8	27.0	27.2	25.7
	Undecided	47.9	48.1	47.4	46.4	47.4
	Number of respondents	13,904	13,977	14,467	15,393	15,646
<b>36.</b>	<b>Regardless of location, do you plan to care primarily for an underserved population?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	28.2	29.8	33.4	34.7	36.1
	No	26.5	25.6	23.0	23.5	21.1
	Undecided	45.3	44.6	43.6	41.9	42.9
	Number of respondents	13,898	13,980	14,477	15,385	15,649
<b>37.</b>	<b>If you could revisit your career choice, would you choose to attend medical school again?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	No	2.4	1.9	2.1	2.1	1.9
	Probably not	6.7	6.0	5.5	5.8	5.5
	Neutral	9.1	8.9	9.1	9.2	9.0
	Probably yes	32.0	32.3	32.6	32.0	32.3
	Yes	49.7	50.9	50.7	51.0	51.3
	Number of respondents	13,926	13,998	14,490	15,417	15,698

- 38. Indicate your level of satisfaction with the following:**  
**Note: For items with an asterisk (\*) respondents had the option to select "Did not use"; these responses are not included in the report calculations and counts.**

		Percentage of Respondents Selecting Each Rating					Count
		Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very satisfied	
<b>Office of the Dean of Students/Associate Dean for Students: Accessibility</b>							
All Medical Schools	2019	1.8	3.3	14.9	37.4	42.6	15,639
All Medical Schools	2018	1.8	3.3	16.2	36.1	42.6	15,393
All Medical Schools	2017	2.0	3.2	15.2	36.5	43.0	14,442
All Medical Schools	2016	2.0	3.2	15.6	37.0	42.3	13,957
All Medical Schools	2015	1.7	2.8	12.6	37.2	45.7	13,995
<b>Office of the Dean of Students/Associate Dean for Students: Awareness of student concerns</b>							
All Medical Schools	2019	3.7	7.8	16.8	36.7	35.0	15,627
All Medical Schools	2018	4.0	7.3	17.6	36.5	34.6	15,379
All Medical Schools	2017	3.9	6.7	16.7	35.7	37.0	14,427
All Medical Schools	2016	3.6	6.6	16.9	37.3	35.6	13,952
All Medical Schools	2015	3.3	6.4	15.6	36.7	37.9	13,987
<b>Office of the Dean of Students/Associate Dean for Students: Responsiveness to student problems</b>							
All Medical Schools	2019	4.4	7.9	17.4	34.2	36.1	15,582
All Medical Schools	2018	4.3	7.6	18.1	34.3	35.7	15,312
All Medical Schools	2017	4.4	6.9	16.7	34.1	38.0	14,323
All Medical Schools	2016	4.2	6.7	17.6	35.1	36.4	13,887
All Medical Schools	2015	3.8	6.7	16.0	35.1	38.5	13,859
<b>Office of the Dean for Educational Programs/Curricular Affairs: Accessibility</b>							
All Medical Schools	2019	2.0	3.4	21.0	39.7	34.0	15,610
All Medical Schools	2018	1.8	3.6	22.1	39.0	33.5	15,343
All Medical Schools	2017	1.9	3.6	20.2	39.8	34.5	14,404
All Medical Schools	2016	2.1	3.3	20.9	40.4	33.3	13,927
All Medical Schools	2015	1.7	2.8	17.7	40.9	36.8	13,969
<b>Office of the Dean for Educational Programs/Curricular Affairs: Awareness of student concerns</b>							
All Medical Schools	2019	3.5	6.6	21.1	38.5	30.2	15,589
All Medical Schools	2018	3.2	6.3	22.4	38.3	29.8	15,322
All Medical Schools	2017	3.3	6.1	20.5	38.3	31.8	14,386
All Medical Schools	2016	3.2	6.0	20.8	39.5	30.5	13,905
All Medical Schools	2015	2.8	5.2	19.2	39.3	33.6	13,940
<b>Office of the Dean for Educational Programs/Curricular Affairs: Responsiveness to student problems</b>							
All Medical Schools	2019	4.1	7.5	22.0	36.2	30.2	15,589
All Medical Schools	2018	3.9	7.2	23.0	36.1	29.8	15,333
All Medical Schools	2017	3.7	6.9	21.0	36.3	32.1	14,380
All Medical Schools	2016	3.9	6.7	22.0	36.8	30.7	13,909
All Medical Schools	2015	3.5	6.1	19.2	37.7	33.5	13,941
<b>Office of the Dean for Educational Programs/Curricular Affairs: Participation of students on key medical school committees</b>							
All Medical Schools	2019	2.4	3.8	22.1	38.4	33.4	15,549
All Medical Schools	2018	2.3	3.9	22.7	38.4	32.7	15,284
All Medical Schools	2017	2.4	3.6	21.6	38.1	34.3	14,374
All Medical Schools	2016	2.4	3.5	22.2	39.0	33.0	13,890
All Medical Schools	2015	2.1	3.1	19.5	38.5	36.9	13,932
<b>Student Support: Academic counseling*</b>							
All Medical Schools	2019	4.6	9.1	13.1	39.0	34.2	12,343
All Medical Schools	2018	4.4	9.4	13.8	39.9	32.5	11,853
All Medical Schools	2017	4.2	8.8	13.6	38.5	35.0	11,283
All Medical Schools	2016	4.2	8.2	13.7	39.3	34.5	10,720
All Medical Schools	2015	3.7	9.3	12.9	37.8	36.3	9,839

**38. Indicate your level of satisfaction with the following:**

**Note: For items with an asterisk (\*) respondents had the option to select "Did not use"; these responses are not included in the report calculations and counts. (Continued)**

		Percentage of Respondents Selecting Each Rating					Count
		Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very satisfied	
<b>Student Support: Tutoring*</b>							
All Medical Schools	2019	4.4	8.1	18.1	37.1	32.2	7,339
All Medical Schools	2018	3.8	7.6	18.2	38.3	32.2	6,815
All Medical Schools	2017	3.5	7.3	17.8	37.3	34.0	6,491
All Medical Schools	2016	4.1	7.0	17.2	38.2	33.5	6,331
All Medical Schools	2015	3.1	7.4	15.8	39.5	34.1	5,250
<b>Student Support: Personal counseling*</b>							
All Medical Schools	2019	4.7	8.6	15.1	35.2	36.5	9,105
All Medical Schools	2018	4.3	8.7	15.7	35.4	35.9	8,539
All Medical Schools	2017	4.2	8.2	15.3	34.8	37.5	8,132
All Medical Schools	2016	4.4	7.2	15.1	35.5	37.8	7,727
All Medical Schools	2015	3.5	7.6	13.4	34.4	41.1	6,443
<b>Student Support: Financial aid administrative services*</b>							
All Medical Schools	2019	4.2	7.2	14.9	36.4	37.3	11,973
All Medical Schools	2018	3.7	6.9	14.5	37.0	38.0	11,693
All Medical Schools	2017	3.5	6.8	14.6	36.9	38.1	11,179
All Medical Schools	2016	3.2	6.5	14.5	38.0	37.7	10,833
All Medical Schools	2015	2.7	5.7	12.8	37.6	41.3	11,091
<b>Student Support: Overall educational debt management counseling*</b>							
All Medical Schools	2019	5.1	10.0	19.1	35.7	30.0	11,251
All Medical Schools	2018	4.4	9.7	18.3	36.7	30.8	10,882
All Medical Schools	2017	4.6	10.0	19.1	35.6	30.7	10,503
All Medical Schools	2016	4.2	9.5	19.0	37.3	30.0	10,224
All Medical Schools	2015	3.5	9.0	17.1	37.0	33.4	10,348
<b>Student Support: Senior loan exit interview*</b>							
All Medical Schools	2019	3.3	4.6	20.8	37.7	33.6	9,094
All Medical Schools	2018	2.4	4.8	20.6	37.6	34.6	8,815
All Medical Schools	2017	2.8	4.9	20.0	37.9	34.4	8,563
All Medical Schools	2016	2.5	4.7	19.6	38.9	34.3	8,406
All Medical Schools	2015	2.0	3.9	18.1	38.5	37.5	8,533
<b>Student Support: Faculty mentoring*</b>							
All Medical Schools	2019	2.4	5.4	11.6	36.4	44.3	14,990
All Medical Schools	2018	2.5	5.5	12.3	36.3	43.4	14,730
All Medical Schools	2017	2.3	5.5	12.0	35.9	44.4	13,759
All Medical Schools	2016	2.4	5.0	11.9	37.0	43.8	13,239
All Medical Schools	2015	2.6	7.0	12.4	34.2	43.8	13,055
<b>Career Planning Services: Career preference assessment activities*</b>							
All Medical Schools	2019	4.1	8.6	23.9	40.8	22.7	11,237
All Medical Schools	2018	4.1	9.4	24.8	40.1	21.6	10,581
All Medical Schools	2017	4.1	9.6	23.9	39.4	23.0	9,982
All Medical Schools	2016	4.3	9.1	23.6	41.3	21.7	9,398
All Medical Schools	2015	4.0	10.5	21.0	39.0	25.5	10,400
<b>Career Planning Services: Information about specialties*</b>							
All Medical Schools	2019	3.0	7.4	16.9	45.8	26.8	13,659
All Medical Schools	2018	2.9	7.8	18.3	45.8	25.2	13,068
All Medical Schools	2017	3.0	8.1	17.7	45.1	26.2	12,379
All Medical Schools	2016	3.1	7.6	17.8	46.2	25.3	11,712
All Medical Schools	2015	3.0	9.3	17.1	42.8	27.8	12,428

- 38. Indicate your level of satisfaction with the following:**  
**Note: For items with an asterisk (\*) respondents had the option to select "Did not use"; these responses are not included in the report calculations and counts. (Continued)**

		Percentage of Respondents Selecting Each Rating					Count
		Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very satisfied	
<b>Career Planning Services: Information about alternative medical careers*</b>							
All Medical Schools	2019	11.1	22.4	26.0	23.9	16.6	9,794
All Medical Schools	2018	10.0	21.1	25.1	27.4	16.5	9,831
All Medical Schools	2017	9.3	20.4	25.3	27.0	18.0	9,447
All Medical Schools	2016	9.7	19.7	24.8	28.8	17.0	9,045
All Medical Schools	2015	9.0	21.3	26.6	25.0	18.2	9,170
<b>Career Planning Services: Overall satisfaction with career planning services*</b>							
All Medical Schools	2019	4.0	9.3	22.0	42.4	22.2	13,522
All Medical Schools	2018	4.0	10.1	22.5	42.3	21.0	12,958
All Medical Schools	2017	4.4	9.9	21.9	41.6	22.3	12,222
All Medical Schools	2016	4.3	9.1	22.2	43.4	21.0	11,607
All Medical Schools	2015	3.9	10.8	21.2	39.7	24.4	12,282
<b>Wellness: Student programs/activities that promote effective stress management, a balanced lifestyle and overall well being*</b>							
All Medical Schools	2019	4.1	7.9	19.2	39.4	29.4	14,109
All Medical Schools	2018	3.3	7.4	18.5	40.4	30.4	13,610
All Medical Schools	2017	3.1	6.7	18.1	38.8	33.3	12,541
All Medical Schools	2016	2.9	6.8	17.1	40.5	32.8	11,858
All Medical Schools	2015	2.5	6.2	15.8	40.6	34.9	11,620
<b>Student Health: Student health services*</b>							
All Medical Schools	2019	3.3	6.0	11.6	40.7	38.3	13,284
All Medical Schools	2018	3.2	6.5	11.7	41.1	37.4	13,039
All Medical Schools	2017	2.9	6.3	11.4	41.7	37.8	12,213
All Medical Schools	2016	3.3	6.7	11.2	42.3	36.6	11,753
All Medical Schools	2015	2.8	6.5	11.0	43.2	36.5	11,725
<b>Student Health: Student mental health services*</b>							
All Medical Schools	2019	5.2	8.2	13.7	33.4	39.6	7,891
All Medical Schools	2018	5.4	7.8	13.5	34.6	38.7	7,194
All Medical Schools	2017	4.6	7.7	13.8	34.5	39.5	6,670
All Medical Schools	2016	5.3	7.3	13.3	34.5	39.6	5,913
All Medical Schools	2015	4.0	6.8	12.2	36.1	40.9	5,416
<b>Student Health: Student health insurance*</b>							
All Medical Schools	2019	8.3	12.3	17.4	35.3	26.8	10,578
All Medical Schools	2018	8.8	12.6	16.9	36.1	25.6	10,357
All Medical Schools	2017	7.5	13.5	17.4	35.3	26.3	9,856
All Medical Schools	2016	9.1	13.1	17.8	36.2	23.8	9,414
All Medical Schools	2015	7.4	13.3	17.1	37.0	25.2	9,440
<b>Facilities: Library*</b>							
All Medical Schools	2019	1.6	4.4	7.6	40.0	46.4	15,073
All Medical Schools	2018	1.5	4.3	7.9	40.8	45.5	14,817
All Medical Schools	2017	1.4	4.3	7.9	39.5	46.8	13,975
All Medical Schools	2016	1.7	4.6	7.8	40.6	45.3	13,438
All Medical Schools	2015	1.3	4.1	7.6	41.0	45.9	13,525
<b>Facilities: Computer resource center*</b>							
All Medical Schools	2019	1.5	4.0	9.9	41.0	43.5	13,477
All Medical Schools	2018	1.4	4.1	10.0	42.1	42.4	13,322
All Medical Schools	2017	1.4	4.0	10.0	40.8	43.9	12,776
All Medical Schools	2016	1.8	4.7	10.0	41.8	41.6	12,541
All Medical Schools	2015	1.3	4.5	9.0	42.1	43.1	12,734

**38. Indicate your level of satisfaction with the following:**  
**Note: For items with an asterisk (\*) respondents had the option to select "Did not use"; these responses are not included in the report calculations and counts. (Continued)**

		Percentage of Respondents Selecting Each Rating					Count
		Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very satisfied	
Facilities: Student study space*							
All Medical Schools	2019	2.8	7.9	10.0	37.4	41.9	15,268
All Medical Schools	2018	2.7	8.3	10.3	38.2	40.5	14,999
All Medical Schools	2017	2.7	7.5	10.5	37.5	41.8	14,068
All Medical Schools	2016	3.0	8.2	10.3	37.8	40.7	13,544
All Medical Schools	2015	2.4	7.7	10.3	38.8	40.8	13,556
Facilities: Student relaxation space*							
All Medical Schools	2019	4.8	11.7	16.7	33.7	33.1	13,831
All Medical Schools	2018	4.9	11.7	17.3	34.5	31.6	13,601
All Medical Schools	2017	4.4	11.8	16.7	33.9	33.2	12,817
All Medical Schools	2016	4.5	11.5	16.8	35.1	31.9	12,405
All Medical Schools	2015	4.1	10.8	16.6	35.8	32.7	12,501

		All Schools				
		2015	2016	2017	2018	2019
<b>39. Are you aware that your school has policies regarding the mistreatment of medical students?</b>		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Yes		94.5	95.7	97.0	97.5	97.2
No		5.5	4.3	3.0	2.5	2.8
Number of respondents		13,954	13,920	14,409	15,371	15,658

		Percent	Percent	Percent	Percent	Percent
<b>40. Do you know the procedures at your school for reporting the mistreatment of medical students?</b>		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Yes		80.8	82.3	86.1	88.1	87.8
No		19.2	17.7	13.9	11.9	12.2
Number of respondents		13,954	13,927	14,402	15,358	15,648

**41. For each of the following behaviors, please indicate the frequency you personally experienced that behavior during medical school. Include in your response any behaviors performed by faculty, nurses, residents/interns, other institution employees or staff, and other students. Please do not include behaviors performed by patients.**  
**During medical school, how frequently have you...**

		Percentage of Respondents Selecting Each Rating				Count
		Never	Once	Occasionally	Frequently	
Been publicly embarrassed?						
All Medical Schools	2019	57.1	20.4	21.1	1.4	15,631
All Medical Schools	2018	56.7	21.8	20.6	1.0	15,342
All Medical Schools	2017	57.0	21.0	21.1	0.9	14,396
All Medical Schools	2016	58.1	20.5	20.4	1.0	13,904
All Medical Schools	2015	53.7	17.9	27.0	1.4	13,877

- 41. For each of the following behaviors, please indicate the frequency you personally experienced that behavior during medical school. Include in your response any behaviors performed by faculty, nurses, residents/interns, other institution employees or staff, and other students. Please do not include behaviors performed by patients.**

**During medical school, how frequently have you... (Continued)**

		Percentage of Respondents Selecting Each Rating					
		Never	Once	Occasionally	Frequently	Count	
<b>Been publicly humiliated?</b>							
All Medical Schools	2019	77.3	13.1	8.8	0.8	15,623	
All Medical Schools	2018	77.6	13.7	8.2	0.5	15,340	
All Medical Schools	2017	78.4	12.8	8.3	0.5	14,382	
All Medical Schools	2016	78.8	12.6	8.2	0.5	13,886	
All Medical Schools	2015	80.5	10.3	8.6	0.6	13,852	
<b>Been threatened with physical harm?</b>							
All Medical Schools	2019	98.7	1.0	0.3	0.1	15,623	
All Medical Schools	2018	98.6	1.1	0.2	0.1	15,325	
All Medical Schools	2017	98.6	1.0	0.3	0.0	14,382	
All Medical Schools	2016	98.6	1.0	0.3	0.1	13,891	
All Medical Schools	2015	98.4	1.2	0.3	0.1	13,855	
<b>Been physically harmed?</b>							
All Medical Schools	2019	98.2	1.5	0.2	0.1	15,616	
All Medical Schools	2018	98.3	1.5	0.2	0.0	15,332	
All Medical Schools	2017	98.3	1.4	0.3	0.0	14,373	
All Medical Schools	2016	98.1	1.6	0.3	0.1	13,885	
All Medical Schools	2015	97.9	1.8	0.3	0.0	13,857	
<b>Been required to perform personal services?</b>							
All Medical Schools	2019	95.0	3.5	1.4	0.1	15,627	
All Medical Schools	2018	94.1	4.1	1.7	0.1	15,350	
All Medical Schools	2017	93.8	4.2	1.8	0.2	14,394	
All Medical Schools	2016	94.3	3.8	1.7	0.1	13,901	
All Medical Schools	2015	92.1	5.1	2.6	0.2	13,875	
<b>Been subjected to unwanted sexual advances?</b>							
All Medical Schools	2019	95.2	2.8	1.8	0.2	15,624	
All Medical Schools	2018	95.1	3.0	1.8	0.2	15,342	
All Medical Schools	2017	95.7	2.8	1.4	0.1	14,387	
All Medical Schools	2016	96.2	2.4	1.3	0.2	13,897	
All Medical Schools	2015	95.3	2.6	2.0	0.1	13,868	
<b>Been asked to exchange sexual favors for grades or other rewards?</b>							
All Medical Schools	2019	99.7	0.2	0.1	0.1	15,626	
All Medical Schools	2018	99.8	0.1	0.1	0.0	15,352	
All Medical Schools	2017	99.7	0.1	0.1	0.0	14,385	
All Medical Schools	2016	99.8	0.1	0.1	0.1	13,895	
All Medical Schools	2015	99.8	0.1	0.1	0.0	13,863	
<b>Been denied opportunities for training or rewards based on gender?</b>							
All Medical Schools	2019	93.8	3.0	2.8	0.5	15,606	
All Medical Schools	2018	93.1	3.4	3.1	0.3	15,341	
All Medical Schools	2017	94.1	2.9	2.7	0.4	14,390	
All Medical Schools	2016	94.4	2.6	2.6	0.4	13,892	
All Medical Schools	2015	93.6	2.7	3.2	0.4	13,863	

**41. For each of the following behaviors, please indicate the frequency you personally experienced that behavior during medical school. Include in your response any behaviors performed by faculty, nurses, residents/interns, other institution employees or staff, and other students. Please do not include behaviors performed by patients.**

**During medical school, how frequently have you... (Continued)**

		Percentage of Respondents Selecting Each Rating					
		Never	Once	Occasionally	Frequently	Count	
<b>Been subjected to offensive sexist remarks/names?</b>							
All Medical Schools	2019	84.2	6.9	8.2	0.8	15,595	
All Medical Schools	2018	83.5	7.5	8.3	0.7	15,343	
All Medical Schools	2017	85.2	7.1	7.0	0.7	14,382	
All Medical Schools	2016	87.1	6.3	6.1	0.5	13,891	
All Medical Schools	2015	85.9	5.9	7.6	0.6	13,862	
<b>Received lower evaluations or grades solely because of gender rather than performance?</b>							
All Medical Schools	2019	92.9	4.5	2.2	0.4	15,606	
All Medical Schools	2018	93.6	4.3	1.8	0.3	15,327	
All Medical Schools	2017	94.2	3.9	1.6	0.3	14,370	
All Medical Schools	2016	94.3	3.7	1.7	0.3	13,889	
All Medical Schools	2015	93.8	4.0	1.9	0.3	13,866	
<b>Been denied opportunities for training or rewards based on race or ethnicity?</b>							
All Medical Schools	2019	96.3	1.5	1.5	0.6	15,614	
All Medical Schools	2018	96.7	1.3	1.6	0.4	15,335	
All Medical Schools	2017	97.1	1.2	1.3	0.5	14,384	
All Medical Schools	2016	97.1	0.9	1.5	0.5	13,888	
All Medical Schools	2015	96.6	1.1	1.7	0.6	13,861	
<b>Been subjected to racially or ethnically offensive remarks/names?</b>							
All Medical Schools	2019	91.5	4.1	3.9	0.5	15,610	
All Medical Schools	2018	91.3	4.4	3.9	0.4	15,324	
All Medical Schools	2017	92.8	3.8	3.0	0.4	14,380	
All Medical Schools	2016	93.3	3.5	2.7	0.4	13,885	
All Medical Schools	2015	92.7	3.5	3.4	0.3	13,856	
<b>Received lower evaluations or grades solely because of race or ethnicity rather than performance?</b>							
All Medical Schools	2019	96.5	1.7	1.3	0.4	15,604	
All Medical Schools	2018	97.0	1.6	1.1	0.3	15,325	
All Medical Schools	2017	97.2	1.5	1.0	0.3	14,383	
All Medical Schools	2016	97.3	1.3	1.0	0.4	13,870	
All Medical Schools	2015	97.0	1.5	1.2	0.3	13,856	
<b>Been denied opportunities for training or rewards based on sexual orientation?</b>							
All Medical Schools	2019	99.3	0.3	0.3	0.1	15,606	
All Medical Schools	2018	99.4	0.2	0.3	0.1	15,338	
All Medical Schools	2017	99.5	0.2	0.2	0.1	14,374	
All Medical Schools	2016	99.5	0.2	0.2	0.1	13,878	
All Medical Schools	2015	99.5	0.2	0.3	0.1	13,853	
<b>Been subjected to offensive remarks/names related to sexual orientation?</b>							
All Medical Schools	2019	98.0	0.9	1.0	0.1	15,608	
All Medical Schools	2018	97.7	1.1	1.1	0.1	15,337	
All Medical Schools	2017	97.9	1.0	1.0	0.1	14,371	
All Medical Schools	2016	98.0	0.9	1.0	0.2	13,870	
All Medical Schools	2015	97.9	0.9	1.1	0.1	13,854	

**41. For each of the following behaviors, please indicate the frequency you personally experienced that behavior during medical school. Include in your response any behaviors performed by faculty, nurses, residents/interns, other institution employees or staff, and other students. Please do not include behaviors performed by patients.**

**During medical school, how frequently have you... (Continued)**

		Percentage of Respondents Selecting Each Rating					
		Never	Once	Occasionally	Frequently	Count	
Received lower evaluations or grades solely because of sexual orientation rather than performance?							
All Medical Schools	2019	99.4	0.3	0.2	0.1	15,605	
All Medical Schools	2018	99.4	0.3	0.2	0.0	15,323	
All Medical Schools	2017	99.5	0.2	0.2	0.0	14,354	
All Medical Schools	2016	99.5	0.3	0.1	0.1	13,860	
All Medical Schools	2015	99.6	0.2	0.1	0.1	13,832	
Been subjected to negative or offensive behavior(s) based on your personal beliefs or personal characteristics other than your gender, race/ethnicity, or sexual orientation?							
All Medical Schools	2019	92.4	3.6	3.4	0.6	15,597	
All Medical Schools	2018	91.7	4.0	3.8	0.5	15,316	
All Medical Schools	2017	91.6	4.3	3.5	0.6	14,372	
All Medical Schools	2016	92.4	3.7	3.3	0.6	13,874	

**All Schools**

		2015	2016	2017	2018	2019
<b>42. Percent of respondents who indicated they personally experienced any of the listed behaviors, excluding "publicly embarrassed." The data are derived from the responses to the survey question reported in Q41 above.</b>						
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Yes		38.7	38.1	39.3	42.1	40.4
No		61.3	61.9	60.7	57.9	59.6
Number of respondents		13,886	13,910	14,405	15,357	15,638

**43. Sources of "publicly humiliated"-only behaviors experienced personally, as percent of all who answered Q41 above, including those who indicated they "Never" experienced any of the listed behaviors. The actual question was: "Indicate below which person(s) engaged in the behavior that was directed at you. Check all that apply."**

	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Pre-clerkship faculty	0.7	0.8	0.9	1.0	1.1
Clerkship faculty (classroom)	1.0	1.3	1.2	1.3	1.4
Clerkship faculty (clinical setting)	12.1	12.9	13.3	13.7	14.4
Resident/Intern	8.6	9.4	9.8	10.3	9.5
Nurse	2.9	3.7	3.8	3.6	4.2
Administrator	0.5	0.5	0.6	0.6	0.6
Other institution employee	0.8	1.0	1.1	1.2	1.4
Student	1.1	1.4	1.5	1.2	1.5
Number of respondents	13,886	13,910	14,405	15,357	15,638



		All Schools				
		2015	2016	2017	2018	2019
<b>44.</b>	<b>Sources of behaviors experienced personally, excluding "publicly embarrassed" and "publicly humiliated," as percent of all who answered Q41 above, including those who indicated they "Never" experienced any of the listed behaviors. The actual question was: "Indicate below which person(s) engaged in the behavior that was directed at you. Check all that apply."</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Pre-clerkship faculty	2.0	1.9	2.4	2.6	2.6
	Clerkship faculty (classroom)	2.3	2.2	2.2	2.5	2.5
	Clerkship faculty (clinical setting)	18.8	17.7	19.2	20.8	20.4
	Resident/Intern	17.2	14.4	15.6	15.9	14.2
	Nurse	4.2	3.5	4.0	4.8	4.5
	Administrator	1.6	1.5	1.3	1.6	1.6
	Other institution employee	4.0	3.3	4.0	5.0	4.8
	Student	5.8	4.9	5.6	6.2	5.9
	Number of respondents	13,886	13,910	14,405	15,357	15,638
<b>45.</b>	<b>Did you report any of the behaviors listed above to a designated faculty member or a member of the medical school administration empowered to handle such complaints?</b>					
	<b>Note: The results include those who indicated they had personally experienced at least "Once" any of the behaviors, excluding "publicly embarrassed," listed in Q41 above.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	19.3	20.2	21.0	22.2	23.2
	No	80.7	79.8	79.0	77.8	76.8
	Number of respondents	5,310	5,277	5,632	6,400	6,582
<b>46.</b>	<b>To whom did you report the behavior(s)? Check all that apply.</b>					
	<b>Note: Only those who responded "Yes" to Q45 could respond to this item.</b>					
	<b>As multiple responses were permitted, totals may exceed 100%.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Dean of Students	24.8	27.1	26.4	24.1	27.7
	Designated counselor/advocate/ombudsperson	19.5	18.8	21.7	20.4	19.8
	Other medical school administrator	22.1	23.1	24.2	26.7	26.3
	Faculty member	45.7	44.5	44.3	44.6	44.4
	Other	20.8	22.0	21.4	18.5	16.3
	Number of respondents	1,026	1,068	1,185	1,418	1,525

**47. How satisfied are you with the outcome of having reported the behavior(s)?**

**Note: Only those who responded "Yes" to Q45 could respond to this item.**

		Percentage of Respondents Selecting Each Rating					Count
		Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very satisfied	
All Medical Schools	2019	14.4	17.0	28.7	25.3	14.5	1,503
All Medical Schools	2018	14.9	17.6	30.2	23.3	13.9	1,414
All Medical Schools	2017	16.3	16.7	26.5	24.8	15.6	1,177
All Medical Schools	2016	13.7	16.8	27.4	24.6	17.5	1,062
All Medical Schools	2015	18.2	16.3	26.8	24.5	14.2	1,017

**All Schools**

**48. If there were any incidents of these behaviors that you did not report, why didn't you report them? Check all that apply.**

**Note: The results include those who indicated they had personally experienced at least "Once" any of the behaviors, excluding "publicly embarrassed," listed in Q41 above. As multiple responses were permitted, totals may exceed 100%.**

	2015	2016	2017	2018	2019
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
The incident did not seem important enough to report	58.3	57.8	56.6	57.4	57.3
I resolved the issue myself	19.2	17.5	18.2	17.0	16.5
I did not think anything would be done about it	36.5	36.0	37.4	38.3	39.0
Fear of reprisal	25.9	27.1	28.3	27.2	30.1
I did not know what to do	9.1	9.0	8.7	10.3	10.6
Other	9.3	9.0	8.4	7.2	6.9
Number of respondents	5,369	5,305	5,665	6,465	6,319

**49. During medical school, did you witness other students subjected to any of the behaviors listed above? Do not include experiences of embarrassment, or behaviors performed by patients.**

	2015	2016	2017	2018	2019
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Yes	19.4	18.4	19.2	21.5	21.4
No	80.6	81.6	80.8	78.5	78.6
Number of respondents	13,874	13,903	14,404	15,334	15,634

**50. Did you report any of the behaviors that you witnessed to a designated faculty member or a member of the medical school administration empowered to handle such complaints?**

**Note: Only those who responded "Yes" at Q49 could respond to this item.**

	2015	2016	2017	2018	2019
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Yes	11.8	11.1	15.2	14.1	14.7
No	88.2	88.9	84.8	85.9	85.3
Number of respondents	2,678	2,547	2,764	3,287	3,341

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>51.</b>	<b>Did you receive any scholarships, stipends, or grants (not loans) for medical school?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	61.2	62.7	63.2	63.5	62.8
	No	38.8	37.3	36.8	36.5	37.2
	Number of respondents	13,921	13,913	14,398	15,346	15,618
<b>52.</b>	<b>Scholarship Categories</b>					
	<b>Note: The upper reportable limits were \$1,000,000 (2019) and \$750,000 (2015-2018).</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	No scholarships (\$0)	39.5	38.0	37.6	37.2	38.0
	\$1 to \$24,999	29.8	32.4	31.3	31.4	30.5
	\$25,000 to \$49,999	9.4	9.9	10.3	9.8	10.0
	\$50,000 to \$74,999	5.2	5.1	5.0	5.6	5.4
	\$75,000 to \$99,999	2.9	2.5	2.9	2.8	3.0
	\$100,000 to \$149,999	4.6	4.3	4.8	4.8	4.9
	\$150,000 to \$199,999	2.3	2.2	2.1	2.2	2.1
	\$200,000 to \$299,999	3.9	3.8	4.1	3.9	3.8
	\$300,000 or more	2.3	1.9	1.9	2.3	2.3
	Number of respondents	13,685	13,665	14,110	15,053	15,286
	Median scholarship amount of those with scholarships	\$25,000	\$20,000	\$24,000	\$24,050	\$25,000
<b>53.</b>	<b>Do you have any outstanding educational loans for your college/premedical education?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	34.8	34.2	33.8	33.4	32.9
	No	65.2	65.8	66.2	66.6	67.1
	Number of respondents	13,913	13,905	14,388	15,329	15,613
<b>54.</b>	<b>Premedical Debt Categories</b>					
	<b>Note: The upper reportable limit was \$500,000.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	No debt (\$0)	66.1	66.7	67.3	67.6	68.3
	\$1 to \$24,999	16.6	15.9	15.0	14.7	14.0
	\$25,000 to \$49,999	7.7	7.9	8.4	8.6	8.6
	\$50,000 to \$74,999	3.8	3.5	3.7	3.7	3.5
	\$75,000 to \$99,999	1.7	1.7	1.5	1.6	1.4
	\$100,000 to \$149,999	1.8	2.0	1.9	1.8	1.9
	\$150,000 to \$199,999	1.0	0.7	0.9	0.7	0.8
	\$200,000 or more	1.3	1.5	1.3	1.4	1.4
	Number of respondents	13,724	13,716	14,149	15,102	15,337
	Median premedical debt of those reporting premedical debt	\$25,000	\$25,000	\$25,000	\$25,000	\$27,000

		All Schools				
		2015	2016	2017	2018	2019
<b>55.</b>	<b>Do you have any outstanding educational loans (including loan service commitments) for your medical school education?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	78.5	73.6	73.1	72.3	71.3
	No	21.5	26.4	26.9	27.7	28.7
	Number of respondents	13,902	13,884	14,370	15,317	15,585
<b>56.</b>	<b>Medical School Debt Categories</b>					
	<b>Note: The upper reportable limit was \$600,000.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	No debt (\$0)	22.0	26.9	27.6	28.3	29.5
	\$1 to \$49,999	8.4	5.7	5.2	4.6	4.6
	\$50,000 to \$99,999	7.5	6.6	6.6	6.4	6.2
	\$100,000 to \$149,999	11.7	11.5	11.0	10.1	9.7
	\$150,000 to \$199,999	17.7	16.9	16.6	15.2	13.9
	\$200,000 to \$299,999	26.5	25.5	26.0	26.8	26.7
	\$300,000 to \$399,999	5.7	6.2	6.1	7.6	8.4
	\$400,000 or more	0.5	0.8	0.9	1.0	1.0
	Number of respondents	13,616	13,610	14,030	14,982	15,174
	Median medical school debt of those reporting medical school debt	\$180,000	\$180,000	\$180,000	\$195,000	\$200,000
<b>57.</b>	<b>Total Education Debt Categories</b>					
	<b>Note: Total education debt is the sum of premedical debt and medical school debt. The displayed categories and averages are calculated using only records with complete responses to both questions. The upper reportable limit was \$1,100,000.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	No debt (\$0)	19.2	24.0	24.6	25.3	26.7
	\$1 to \$49,999	9.6	6.8	6.3	6.1	5.6
	\$50,000 to \$99,999	7.2	6.6	6.6	6.4	6.1
	\$100,000 to \$149,999	10.6	10.6	10.4	9.6	9.1
	\$150,000 to \$199,999	16.4	15.8	15.2	13.9	13.1
	\$200,000 to \$299,999	26.6	25.5	25.8	26.3	26.2
	\$300,000 to \$399,999	8.0	8.2	8.7	9.5	10.5
	\$400,000 to \$499,999	1.6	1.9	1.7	2.2	2.0
	\$500,000 or more	0.7	0.7	0.7	0.7	0.8
	Number of respondents	13,520	13,523	13,945	14,874	15,072
	Median education debt of those reporting education debt	\$185,000	\$190,000	\$195,000	\$200,000	\$200,000
<b>58.</b>	<b>Do you have any non-educational, consumer debt that you are legally required to repay? (This includes credit card debt, car loans, home mortgages, or other consumer debt.)</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	23.9	23.5	22.1	21.9	20.0
	No	76.1	76.5	77.9	78.1	80.0
	Number of respondents	13,886	13,879	14,348	15,302	15,411

		All Schools				
		2015	2016	2017	2018	2019
<b>59.</b>	<b>Please list the amount of your non-educational, consumer debt.</b>					
	<b>Note: Amounts totaling &gt; \$10,000,000 for mortgage and total debt were treated as invalid.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	No debt (\$0)	76.7	77.2	78.6	79.6	80.7
	\$1 to \$24,999	15.5	15.9	15.2	14.3	13.5
	\$25,000 to \$49,999	2.2	2.0	1.9	2.1	1.7
	\$50,000 to \$74,999	0.6	0.5	0.5	0.6	0.5
	\$75,000 to \$99,999	0.6	0.6	0.3	0.3	0.3
	\$100,000 to \$149,999	1.7	1.3	1.1	0.9	1.1
	\$150,000 or more	2.9	2.6	2.4	2.2	2.2
	Number of respondents	13,789	13,760	14,207	15,015	15,267
	Median non-educational debt of those reporting non-educational debt	\$15,000	\$12,000	\$12,000	\$12,000	\$12,000
<b>60.</b>	<b>Please list the amount of your non-educational, consumer debt for each category listed below.</b>					
	<b>Note: The number shown in each category is the median of those providing valid figures. Amounts totaling &gt; \$500,000 for credit cards, car loans, residency, and other loans were treated as invalid, and amounts totaling &gt; \$10,000,000 for mortgage and total debt were treated as invalid.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Credit cards	\$4,000	\$4,000	\$4,000	\$5,000	\$5,000
	Number of respondents	2,083	2,069	2,019	2,124	2,012
	Car loans	\$10,000	\$10,000	\$10,000	\$11,000	\$10,000
	Number of respondents	1,177	1,144	1,139	1,162	1,086
	Mortgage	\$140,000	\$145,500	\$150,000	\$150,000	\$150,000
	Number of respondents	768	674	586	591	600
	Residency and relocation loans	\$12,000	\$12,000	\$13,000	\$12,000	\$10,000
	Number of respondents	675	571	448	467	385
	Other consumer loans	\$7,000	\$10,000	\$10,000	\$10,000	\$9,000
	Number of respondents	195	171	161	167	144
	Total amount	\$15,000	\$12,000	\$12,000	\$12,000	\$12,000
	Number of respondents	3,217	3,140	3,036	3,061	2,940
<b>61.</b>	<b>Do you plan to enter into a loan-forgiveness program?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Yes	39.9	44.3	45.9	45.7	43.9
	No	60.1	55.7	54.1	54.3	56.1
	Number of respondents	11,281	10,639	10,929	11,559	11,558

		<b>All Schools</b>				
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>62.</b>	<b>Select the type of loan forgiveness program in which you plan to participate.</b>					
	<b>Note: Only those who selected "Yes" at Q61 could respond to this item.</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Department of Education's Public Service Loan Forgiveness (PSLF)	66.1	71.4	73.2	76.3	76.3
	National Health Service Corps	6.8	5.3	5.4	4.4	4.2
	Indian Health Service Corps	0.5	0.6	0.8	0.4	0.4
	Armed Services (Navy, Army, Air Force)	1.5	0.9	0.9	0.8	1.0
	Uniformed Service (CDC, HHS)	0.2	0.2	0.1	0.1	0.1
	State loan forgiveness program	8.8	8.8	7.6	6.8	6.8
	Hospital program (e.g., sign-on bonus)	10.7	8.5	8.0	8.4	8.7
	Private loan forgiveness program	0.7	0.7	0.8	0.4	0.4
	Other	4.7	3.6	3.3	2.4	2.1
	Number of respondents	4,403	4,638	4,938	5,207	5,006
<b>63.</b>	<b>Gender Identity:</b>					
	<b>Note: The results are derived from two questions: "What sex were you assigned at birth?" (response options "Male" or "Female") and "What is your current gender identity?" (response options "Male," "Female," "Trans male/trans man," "Trans female/trans woman," "Genderqueer/gender non-conforming," or "Different identity").</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Same gender identity as the sex assigned at birth	99.7	99.7	99.6	99.6	99.6
	Different gender identity from the sex assigned at birth	0.3	0.3	0.4	0.4	0.4
	Number of respondents	13,862	14,325	15,299	15,541	15,541
<b>64.</b>	<b>How do you self-identify?</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Bisexual	2.1	2.3	2.9	3.2	3.2
	Gay or lesbian	3.1	3.4	3.9	4.0	4.0
	Heterosexual or straight	94.8	94.3	93.2	92.8	92.8
	Number of respondents	13,806	14,260	15,159	15,445	15,445
<b>65.</b>	<b>Region of medical school:</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Northeast	29.5	28.8	29.0	28.6	28.9
	South	32.2	33.3	33.2	33.6	32.9
	Midwest	27.0	26.5	26.1	26.5	26.7
	West	11.3	11.5	11.6	11.3	11.5
	Number of respondents	14,939	15,232	15,609	16,223	16,657
<b>66.</b>	<b>Control of medical school:</b>					
		<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
	Private	39.6	39.0	39.4	39.3	39.0
	Public	60.4	61.0	60.6	60.7	61.0
	Number of respondents	14,939	15,232	15,609	16,223	16,657

## 2019 GQ References

Each item number below refers to the question number in the 2019 GQ *All Schools Summary Report*.

### **Q19. Medical School Learning Environment Survey (MSLES)**

Marshall RE. Measuring the medical school learning environment. *Journal of medical education*. 1978;53(2):98-104.

### **Q23. Tolerance for Ambiguity (TFA)**

Geller G, Tambor ES, Chase GA, Holtzman NA. Measuring physicians' tolerance for ambiguity and its relationship to their reported practices regarding genetic testing. *Medical care*. 1993;31(11):989-1001.

Caulfield M, Andolsek K, Grbic D, Roskovensky L. Ambiguity tolerance of students matriculating to U.S. medical schools. *Acad Med*. 2014;89(11):1526-1532.

### **Q24. Interpersonal Reactivity Index (IRI)**

Hojat M, Spandorfer J, Louis DZ, Gonnella JS. Empathic and sympathetic orientations toward patient care: conceptualization, measurement, and psychometrics. *Acad Med*. 2011;86(8):989-995.

Davis MH. Measuring individual differences in empathy: evidence for a multidimensional approach. *Journal of personality and social psychology*. 1983;44:113-126.

### **Q25. Oldenburg Burnout Inventory for Medical Students Scale**

Halbesleben JRB, Demerouti E. The construct validity of an alternative measure of burnout: Investigating the English translation of the Oldenburg Burnout Inventory. *Work and Stress*. 2005;19(3):208-220.

## 2019 AAMC Medical School Graduation Questionnaire All Schools Summary Report

### Appendix: Piloted Survey Items

#### Background

This appendix to the *All Schools Summary Report* of the 2019 Medical School Graduation Questionnaire (GQ) provides additional national response data for new items that were piloted in the 2019 survey. The 2019 data are being reported at the national level only; the 2019 GQ school and campus reports do not display institutional results for these items.

The piloted items on the 2019 GQ address the following topics:

#### *Students with Disabilities*

These items are intended to help the AAMC better understand the experiences of medical school students with disabilities. The questions were presented to respondents in the section of the survey where students are asked to evaluate medical school services.

#### *Core Entrustable Professional Activities (EPAs)*

To better understand the extent to which medical schools are incorporating competency-based medicine to prepare medical students to perform core physician activities upon entering residency, questions addressing Entrustable Professional Activities (EPAs) were piloted in the 2019 GQ. These questions fall into three categories: 1) how frequently students performed core physician activities in clinical settings with real patients while also receiving feedback on their performance; 2) how confident students are in their ability to perform these activities upon entering residency; and 3) whether or not students were introduced to the concept of EPAs in their medical education. The questions were presented to students in the section of the survey dealing with clinical experiences.

#### *Additional Items Pertaining to Preparation for Residency*

Two items further address students' confidence in their ability to meet emerging demands of health care: specifically, the ability to apply the principles of high value care in medical decision-making, and the ability to address the social determinants that differentially influence patient health. These questions were presented to students in the same section of the survey as the piloted EPA items.

Copies of the GQ survey are available at [www.aamc.org/gq](http://www.aamc.org/gq).

#### Providing Feedback

For inquiries or feedback regarding the GQ surveys or reports, contact [gq@aamc.org](mailto:gq@aamc.org).



All Schools
 

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2019

**67. The Americans with Disabilities Act (ADA) defines a person with a disability as a person who has a physical or mental impairment that substantially limits one or more major life activity. Do you have a disability as defined by the ADA?**

	<u>Percent</u>
Yes	2.3
No	96.1
I don't know	1.5
<hr/>	
Number of respondents	15,653

**68. Which of the following best describes your disability? Select all that apply. Note: Only those who answered "Yes" to Q67 above could respond to this item.**

	<u>Percent</u>
Attention deficit/hyperactivity disorder	41.6
Chronic health issue	31.0
Hearing impairment	4.1
Mobility disability	5.5
Psychological disability	17.8
Vision impairment	4.9
Other: Learning disability	11.2
Other	8.2
<hr/>	
Number of respondents	365

**69. Has your medical school provided accommodations for your disability? Note: Only those who answered "Yes" to Q67 above could respond to this item.**

	<u>Percent</u>
Yes	79.1
No	20.9
<hr/>	
Number of respondents	364

**70. Which of the following best describes why your medical school did not or has not provided accommodations: Note: only those who answered "No" to Q69 above could respond to this question.**

	<u>Percent</u>
My request for accommodations was denied	9.2
My request for accommodations is under review	3.9
I have not requested accommodations because I feel I do not need accommodations	53.9
I have not requested accommodations for other reasons	32.9
<hr/>	
Number of respondents	76

- 71. In the workplace (clinical setting), how often during medical school have supervising residents or faculty members directly observed you performing the following activity and also provided you with immediate (within 24 hours) verbal or written feedback on your performance of the activity? Include only activities involving real patients. Do not include activities involving standardized or simulated patients.**

		Percentage of Respondents Selecting Each Rating				
		Never	Once	2 to 5 times	More than 5 times	Count
Gather a history and perform a physical examination						
All Medical Schools	2019	0.8	3.3	24.0	71.9	16,255
Prioritize a differential diagnosis following a clinical encounter						
All Medical Schools	2019	0.4	1.2	12.3	86.2	16,257
Recommend and interpret common diagnostic and screening tests						
All Medical Schools	2019	0.4	1.3	11.9	86.4	16,244
Enter and discuss orders and prescriptions						
All Medical Schools	2019	5.4	5.4	26.2	63.0	16,227
Document a clinical encounter in the patient record						
All Medical Schools	2019	1.3	1.7	13.4	83.6	16,240
Provide an oral presentation of a clinical encounter						
All Medical Schools	2019	0.2	0.8	6.8	92.2	16,185
Form clinical questions and retrieve evidence to advance patient care						
All Medical Schools	2019	1.5	2.3	20.1	76.1	16,207

71. **In the workplace (clinical setting), how often during medical school have supervising residents or faculty members directly observed you performing the following activity and also provided you with immediate (within 24 hours) verbal or written feedback on your performance of the activity? Include only activities involving real patients. Do not include activities involving standardized or simulated patients. (Continued)**

		Percentage of Respondents Selecting Each Rating				
		Never	Once	2 to 5 times	More than 5 times	Count
Give or receive a patient handover to transition care responsibility						
All Medical Schools	2019	6.5	5.9	29.7	58.0	16,212
Collaborate as a member of an interprofessional team						
All Medical Schools	2019	2.2	2.4	16.3	79.1	16,205
Recognize a patient requiring urgent or emergent care and initiate evaluation and management						
All Medical Schools	2019	7.0	7.2	34.0	51.8	16,207
Obtain informed consent for tests and/or procedures						
All Medical Schools	2019	20.9	11.2	33.8	34.1	16,204
Perform basic Cardiopulmonary Resuscitation (CPR)						
All Medical Schools	2019	39.3	19.2	27.6	13.9	16,162
Perform bag and mask ventilation						
All Medical Schools	2019	29.8	12.8	28.1	29.3	16,225
Perform sterile technique						
All Medical Schools	2019	1.2	1.9	12.5	84.4	16,221

- 71. In the workplace (clinical setting), how often during medical school have supervising residents or faculty members directly observed you performing the following activity and also provided you with immediate (within 24 hours) verbal or written feedback on your performance of the activity? Include only activities involving real patients. Do not include activities involving standardized or simulated patients. (Continued)**

		Percentage of Respondents Selecting Each Rating				
		Never	Once	2 to 5 times	More than 5 times	Count
<hr/>						
Perform venipuncture						
All Medical Schools	2019	24.2	13.9	33.0	28.9	16,203
<hr/>						
Insert an intravenous (IV) line						
All Medical Schools	2019	24.1	15.8	33.7	26.4	16,219
<hr/>						
Place a urinary catheter						
All Medical Schools	2019	6.1	11.6	43.3	39.1	16,209
<hr/>						
Report patient safety concerns using system reporting structures						
All Medical Schools	2019	67.0	12.3	11.3	9.3	16,191
<hr/>						

- 72. Indicate whether you agree or disagree with the following statements about your preparedness for beginning a residency program: I have the skills to...**

		Percentage of Respondents Selecting Each Rating					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
<hr/>							
Gather a history and perform a physical examination							
All Medical Schools	2019	0.1	0.2	1.0	22.2	76.5	16,105
<hr/>							
Prioritize a differential diagnosis following a clinical encounter							
All Medical Schools	2019	0.2	0.4	2.7	38.0	58.8	16,097
<hr/>							

**72. Indicate whether you agree or disagree with the following statements about your preparedness for beginning a residency program: I have the skills to... (Continued)**

		Percentage of Respondents Selecting Each Rating					Count
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	
Recommend and interpret common diagnostic and screening tests							
All Medical Schools	2019	0.2	0.5	3.3	40.6	55.5	16,094
Enter and discuss orders and prescriptions							
All Medical Schools	2019	2.0	7.9	16.8	38.6	34.7	16,086
Document a clinical encounter in the patient record							
All Medical Schools	2019	0.2	0.5	2.6	28.9	67.9	16,034
Provide an oral presentation of a clinical encounter							
All Medical Schools	2019	0.1	0.3	1.7	28.3	69.6	16,084
Form clinical questions and retrieve evidence to advance patient care							
All Medical Schools	2019	0.2	0.6	3.7	36.4	59.2	16,073
Give or receive a patient handover to transition care responsibility							
All Medical Schools	2019	0.7	3.2	10.7	41.0	44.4	16,080
Collaborate as a member of an interprofessional team							
All Medical Schools	2019	0.2	0.3	2.2	26.5	70.8	16,061
Recognize a patient requiring urgent or emergent care and initiate evaluation and management							
All Medical Schools	2019	0.5	2.5	9.9	43.4	43.7	16,026

**72. Indicate whether you agree or disagree with the following statements about your preparedness for beginning a residency program: I have the skills to... (Continued)**

		Percentage of Respondents Selecting Each Rating					Count
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	
Obtain informed consent for tests and/or procedures							
All Medical Schools	2019	1.4	5.9	14.1	40.0	38.6	16,082
Perform general procedures of a physician							
All Medical Schools	2019	1.4	6.4	16.7	40.4	35.2	16,073
Report patient safety concerns using system reporting structures							
All Medical Schools	2019	2.8	11.9	24.3	33.1	27.9	16,077

**All Schools**
**2019**
**73. Have you been introduced to the concept of Entrustable Professional Activities (EPAs) in your medical education?**

	Percent
Yes	26.9
No	24.6
Not sure	48.5
Number of respondents	16,038

**74. Indicate whether you agree or disagree with the following statements about your preparedness for beginning a residency program: I have the skills to...**

		Percentage of Respondents Selecting Each Rating					Count
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	
Apply the principles of high value care (e.g., quality, safety, cost) in medical decision-making							
All Medical Schools	2019	1.3	5.2	16.1	40.2	37.2	16,074
Address the social determinants that differentially influence the health status of patients							
All Medical Schools	2019	0.6	1.8	7.8	38.6	51.3	16,048