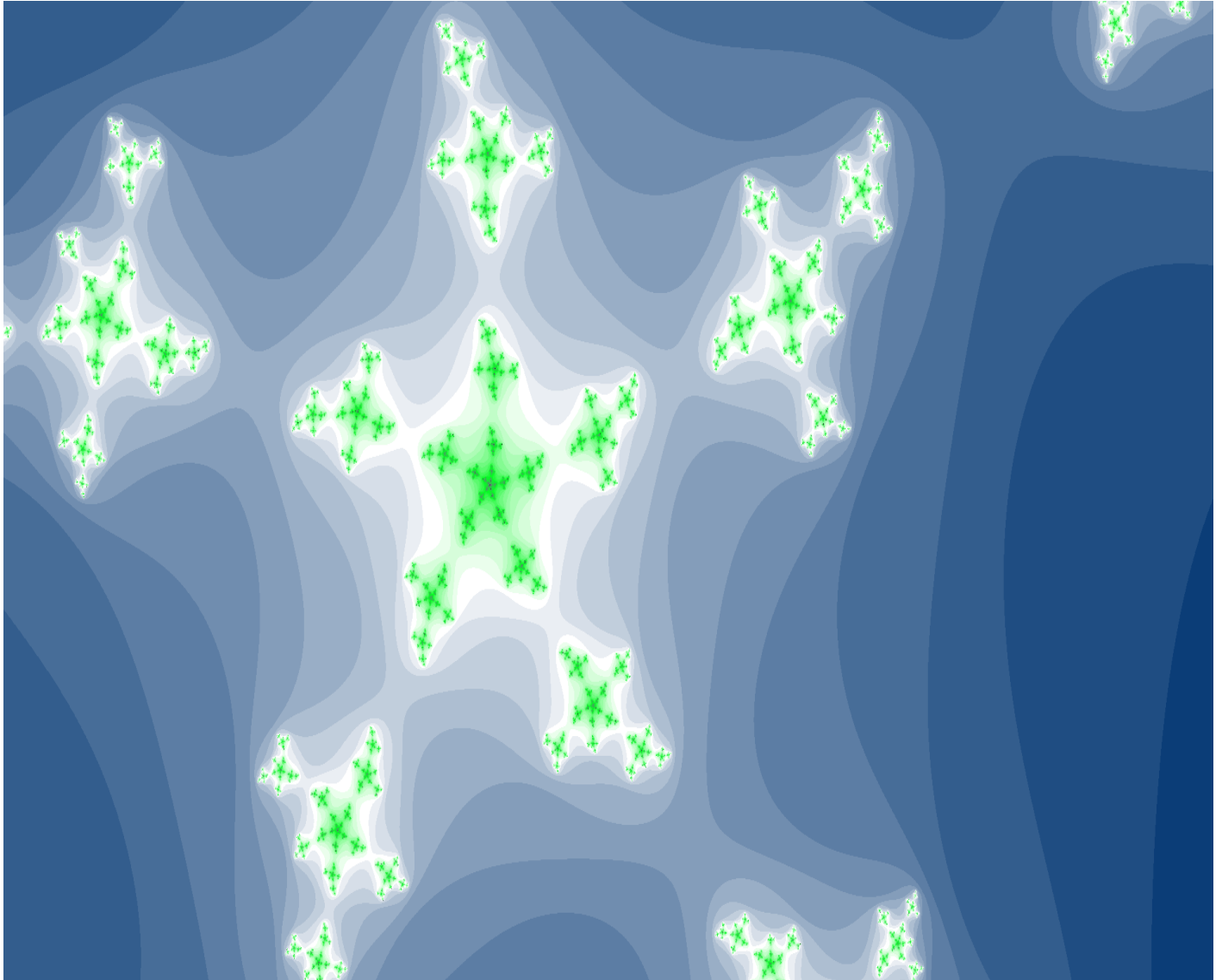


Enrollment Snapshot 2022



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American Society of Radiologic Technologists

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Additional Documents (please contact the ASRT for a copy):

 Survey Instruments and Invitation Letter

Executive Summary

In late September 2022, an invitation to complete an online questionnaire was sent via email to 1,197 radiography, radiation therapy, nuclear medicine technology, sonography, and magnetic resonance imaging programs approved by the American Registry of Radiologic Technologists (ARRT). At the close of the survey in November 2022, a total of 247 responses had been received, yielding an overall response rate of 20.6%.

Based upon the known population parameters listed below, the finite population correction factor was used when computing confidence intervals.

	Return	Population	Percent Sampled	Margin of Error at the 95% Level
Radiography	189	729	25.9%	±6.1%
Radiation Therapy	29	99	29.3%	±15.4%
Nuclear Medicine	14	94	14.9%	±24.3%
Sonography	30	214	14.0%	±16.6%
Magnetic Resonance Imaging	30	61	49.2%	±12.9%
Overall	247	1,197	20.6%	±5.6%

This report summarizes findings regarding enrollment in ARRT-approved radiologic sciences programs based on the responses from program directors.

Demographics

Most responses to the survey were from programs offering instruction in radiography (76.9%); 12.1% were from sonography programs, 12.1% were from magnetic resonance imaging (MRI) programs, 11.7% were from radiation therapy programs, and 5.7% from programs offering instruction in nuclear medicine technology (NMT).

A plurality of respondents (41.1%) work at a community college; 27.2% work at a university, 21.5% at a medical center, 7.7% at a technical college, and 2.4% at a for-profit school.

The most common terminal degree offered by responding institutions is an associate degree (61.4%); 23.6% offer a bachelor's degree, and 15.0% offer another type of degree.

The majority of programs surveyed (96.8%) are located in the United States; 2.8% are in Canada, and 0.4% are in Australia.

Of the programs responding, 20.7% were in the East North Central region, with another 15.2% each from the Mid-Atlantic and South Atlantic regions. The lowest response rates were from the Pacific (6.3%) and East South Central regions (4.6%).

2022 Student Capacity

Asked whether their program is currently at full enrollment, 47.8% of responding programs said yes and 52.2% said no.

Programs not at full enrollment were asked how many additional students their program could accommodate. An estimated 5.8 additional students could be accommodated at radiography programs, 4.5 at radiation therapy programs, 3.9 at NMT programs, 6.0 at sonography programs, and 9.7 at MRI programs.

For programs not at capacity, this produces an estimate of 2,136 additional spaces for students across all radiography programs, 310 additional spaces for students across all radiation therapy programs, 282 additional spaces for students across

all NMT programs, 817 additional spaces for students across all sonography programs, and 458 additional spaces for students across all MRI programs.

The mean number of qualified students turned away by radiography programs was 29.2. Radiation therapy programs turned away an average of 9.6 qualified students, NMT programs turned away an average of 2.0 qualified students, sonography programs turned away an average of 4.5 qualified students, and MRI programs had not turned away any qualified students.

This produces an estimate of 10,505 qualified students turned away in radiography, 288 turned away by therapy programs, 42 turned away by nuclear medicine programs, and 351 turned away by sonography programs. No students were turned away by MRI programs.

Near-term Changes

Most of the programs surveyed plan to maintain their current levels of enrollment; 62.9% of programs across these disciplines plan to keep their enrollment at the same level; 36.3% of programs plan to increase enrollment, and the remaining 0.8% plan to decrease their enrollment.

The majority of programs across disciplines (83.3%) definitely continue to operate; 15.0% will most likely continue operations, 0.8% will most likely close, and another 0.8% will definitely close.

Student Attrition

Asked about the attrition rate¹ of their program, respondents indicated that, on average, 11.4% of their students failed to complete the program for the cohort that graduated in 2021.

Enrollment Analysis

Based on the survey responses, radiography programs enrolled an average of 22.3 students in 2022. This represents an increase of 2.6 students per program

from 2021. This produces an overall estimate of 16,235 students entering ARRT-approved radiography programs in 2022, up from 15,477 in 2021.

On average, radiation therapy programs enrolled 12.2 students in 2022 compared to 11.7 students in 2021. This represents an increase of 0.5 students per program from 2021 when, on average, 11.7 students enrolled in each radiation therapy program. This produces an overall estimate of 1,208 students enrolling in ARRT-approved radiation therapy programs in 2022, down from 1,275 in 2021. The marginally higher levels in students enrolled per program is offset by there being 10 fewer radiation therapy programs certified by the ARRT, hence the lower overall estimated enrollment.

On average, NMT programs enrolled 8.9 students in 2022. This represents a decrease of 2.4 students per program from 2021 when, on average, 11.3 students enrolled in each NMT program. Overall, this produces an estimate of 837 students enrolling in NMT programs in 2022, down from 1,300 in 2021.

Sonography programs enrolled an average of 16.5 students, producing an estimate of 3,531 students enrolling in ARRT-recognized programs. MRI programs enrolled an average of 11.8 students, producing an estimate of 720 students enrolled in all ARRT-recognized programs. This is the first year that the enrollment survey collected data on these disciplines, so there is no baseline for longitudinal comparison.

COVID-19 Questions

In light of the COVID-19 pandemic, respondents were asked several questions pertaining to the pandemic's effect on their program. The results were compared to those from the previous Enrollment Snapshot and, where possible, were compared to those of an ASRT survey conducted in April 2020 on the effects of COVID-19.

¹ Methodological Note: In previous years, no attempt was made to determine the plausibility of responses about attrition. In the last three years responses were recoded according to the following scheme: If the respondent indicated an attrition rate of 59% or lower, the response was left as is. If the respondent

indicated an attrition rate over 59%, the response was recoded as (1-x) where x = *uncoded user response*. For this reason, reported attrition means on the last three Enrollment Snapshots will be noticeably lower than they have been in previous years.

Comparative Questions

Asked whether the response to COVID-19 has reduced their ability to place students in a clinical setting, 35.4% of respondents said yes; this represents a sharp decline from 98.4% in the April 2020 survey.

A majority of respondents (96.7%) said that less than twenty-five percent of their clinical rotation schedule has been eliminated as a result of COVID-19. This represents a return to normalcy from the April 2020 survey when 61.8% of respondents had eliminated their entire clinical rotation schedule.

Asked about alternatives being used to compensate for a reduced clinical schedule, 28.5% of programs reported using virtual solutions, up from 15.8% in April 2020; 25.7% are using various online resources such as videos, up from 17.2% in April 2020; 22.9% are delaying their clinical schedule to a later date, down from 46.4% in April 2020; 15.9% are using alternative assignments such as papers, up from 8.6% in April 2020; 7% are using some other alternative, down from 12.1% in April 2020.

Asked about their program's most pressing needs to offset a reduced clinical schedule, the largest proportion of respondents (43.2%) suggested alternatives to clinical instruction, up from 38.7% in April 2020; 24.7% suggested additional resources for online instruction, up from 7.8% in April 2020; 14.4% suggested a relaxation of clinical requirements, down from 23.7% in April 2020; 11.6% suggested and extended program to allow students to meet requirements, down from 17.2% in April 2020, and 2.1% suggested a relaxation of graduation requirements, down from 5.1% in April 2020. Another 4.1% have "other" pressing needs, down from 7.5% in April 2020.

Questions Unique to the Enrollment Survey

Asked whether their program allows students to perform exams on known or suspected COVID-19 patients, 77.2% said yes, up from 73.9% in October 2020.

The question, "How many clinical sites are currently allowing students to complete clinical procedures at their site?" was originally asked by the ARRT in their

May 2020 survey, *Radiography Educational Program Director Survey Results & Analysis*. Asked again in the current Enrollment Survey, 53.7% of respondents said that 10 or more clinical sites were allowing students, up from 1.0% from the May 2020 ARRT survey; only a single program (0.4% of respondents) said that none of their clinical sites are allowing students, compared to 74.0% on the May 2020 ARRT survey.

Diversity Questions

Additional questions on institutional and departmental diversity were asked in the survey. The results to these questions will be released in an upcoming report.

Glossary

The following statistical results are displayed using a common set of acronyms and symbols for brevity. The symbols and acronyms used are listed here for reference.

Population

The total number of programs.

N

The number of responses.

Valid Percent

The percentage of total responses.

Mean

The arithmetic average.

SD

The standard deviation.

95% Confidence Level

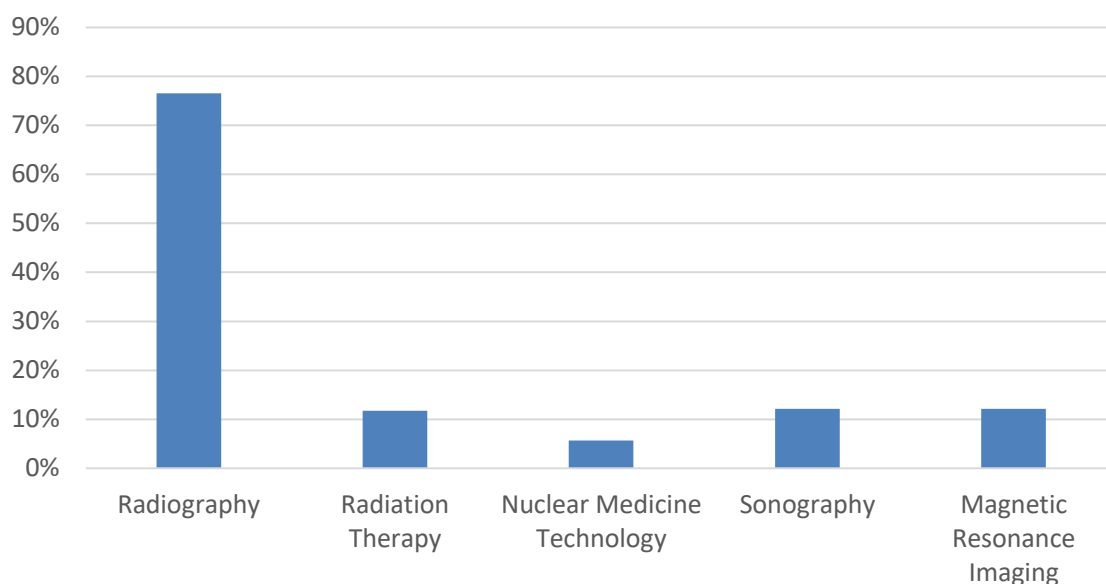
The probability that the population mean falls between the lower and upper bound values.

Demographics

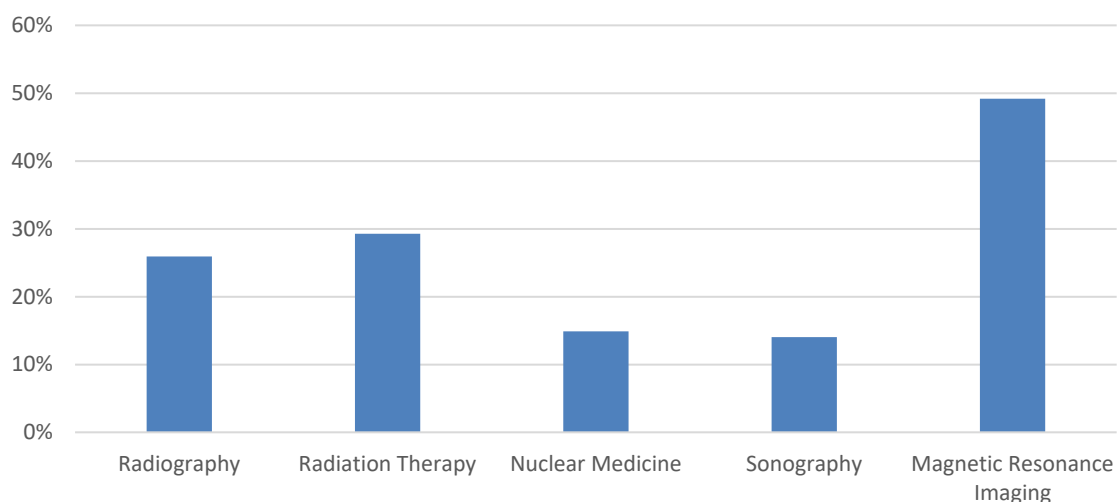
Indicate your program type.

	N	Valid Percent	Population Distribution	Sample Return as Percent of Population
Radiography	189	76.5%	729	25.9%
Radiation Therapy	29	11.7%	99	29.3%
Nuclear Medicine Technology	14	5.7%	94	14.9%
Sonography	30	12.1%	214	14.0%
Magnetic Resonance Imaging	30	12.1%	61	49.2%
Total	247	100.0%	1197	20.6%

Indicate your program type.



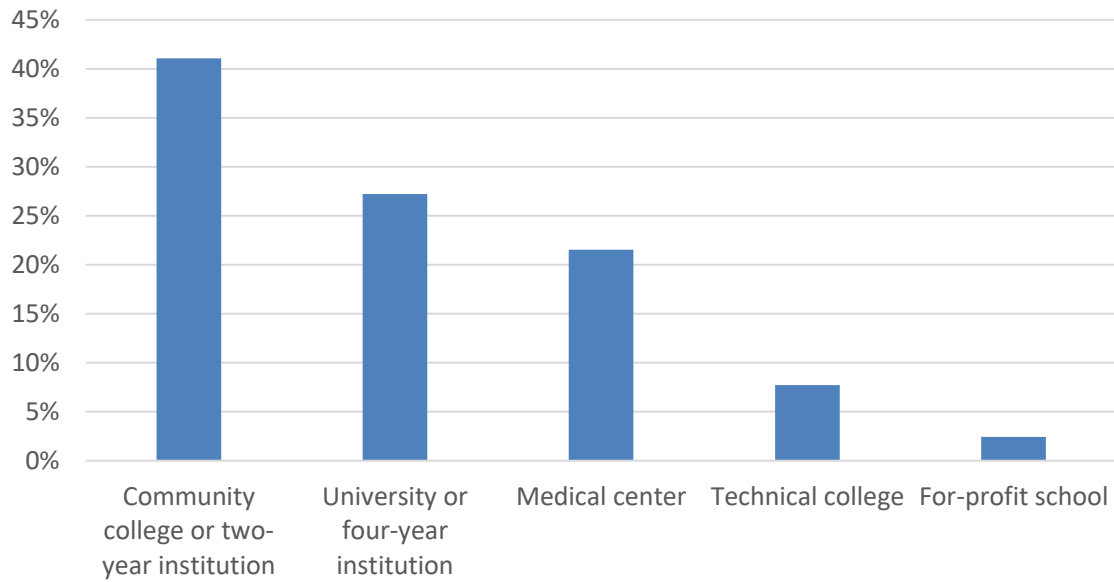
Sample Return as Percent of Population



What is your primary place of employment?

	N	Valid Percent
Community college or two-year institution	101	41.1%
University or four-year institution	67	27.2%
Medical center	53	21.5%
Technical college	19	7.7%
For-profit school	6	2.4%
Total	246	100.0%

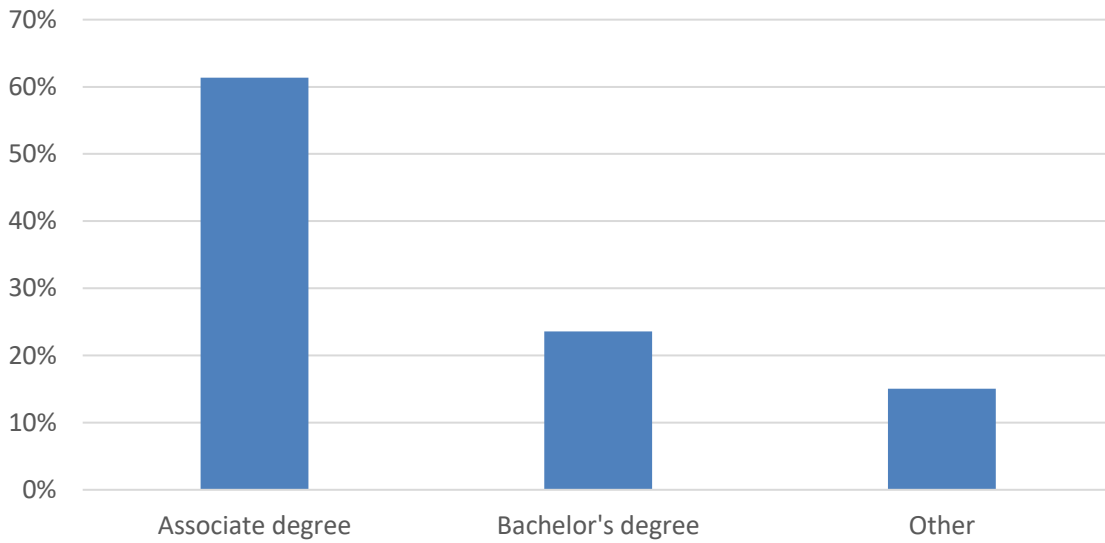
What is your primary place of employment?



What is the terminal degree earned by the graduates in your program?

	N	Valid Percent
Associate degree	151	61.4%
Bachelor's degree	58	23.6%
Other	37	15.0%
Total	246	100.0%

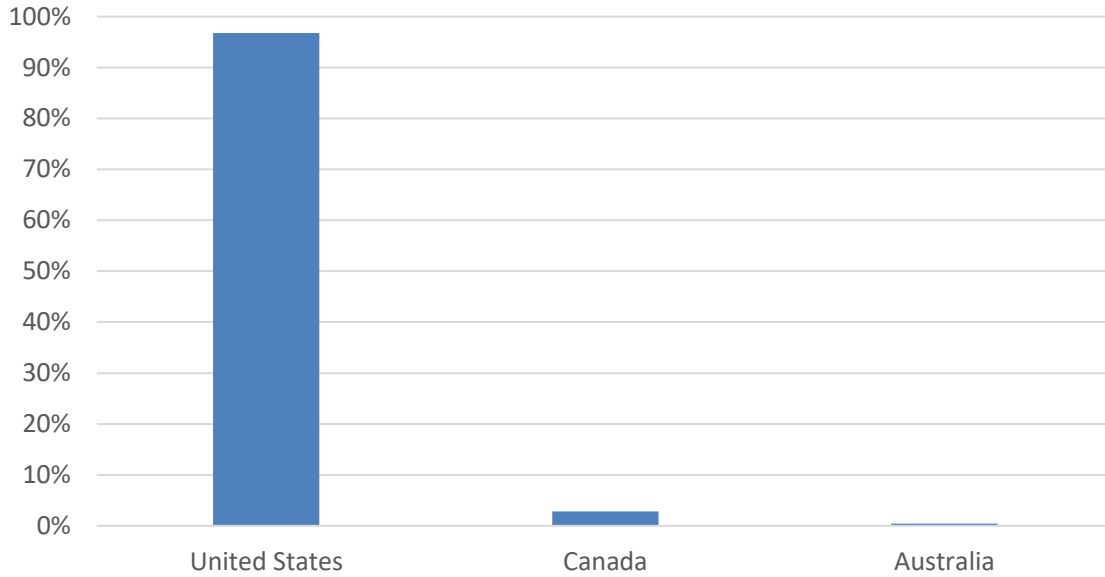
What is the terminal degree earned by the graduates in your program?



In what country is your program located?

	N	Valid Percent
United States	238	96.8%
Canada	7	2.8%
Australia	1	0.4%
Total	246	100.0%

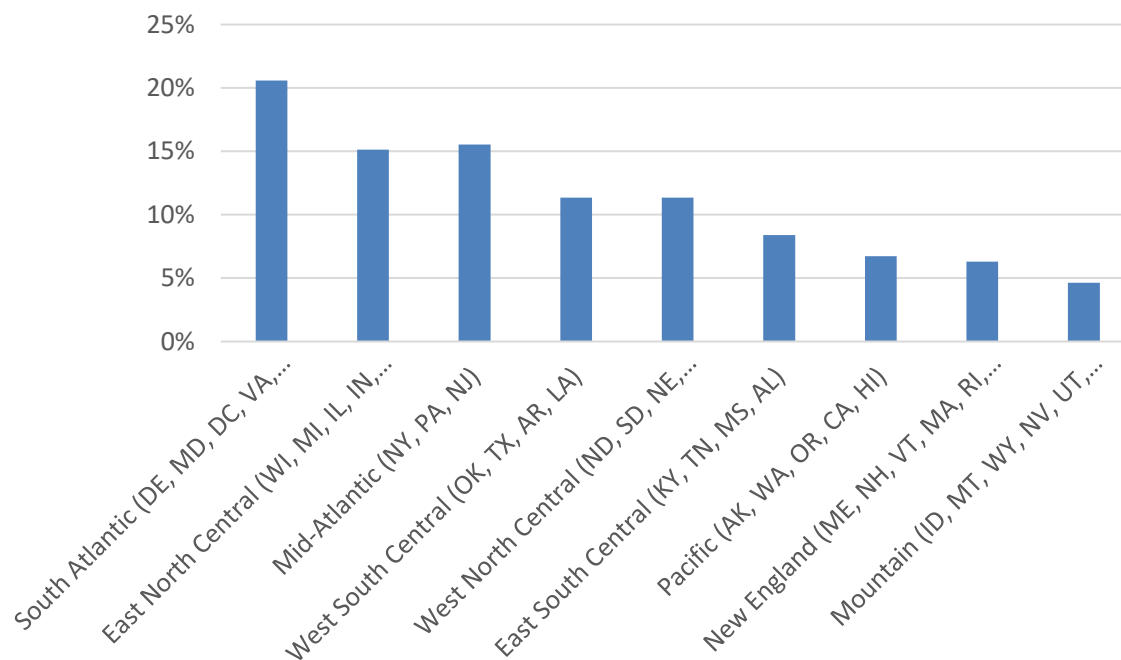
In what country is your program located?



If you chose the United States in the question above, please indicate in which region your program is located.

	N	Valid Percent
East North Central (WI, MI, IL, IN, OH)	49	20.6%
Mid-Atlantic (NY, PA, NJ)	36	15.1%
South Atlantic (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	37	15.5%
West North Central (ND, SD, NE, KS, MN, IA, MO)	27	11.3%
West South Central (OK, TX, AR, LA)	27	11.3%
Mountain (ID, MT, WY, NV, UT, CO, AZ, NM)	20	8.4%
New England (ME, NH, VT, MA, RI, CT)	16	6.7%
Pacific (AK, WA, OR, CA, HI)	15	6.3%
East South Central (KY, TN, MS, AL)	11	4.6%
Total	238	100.0%

If you chose the United States in the question above, please indicate in which region your program is located.

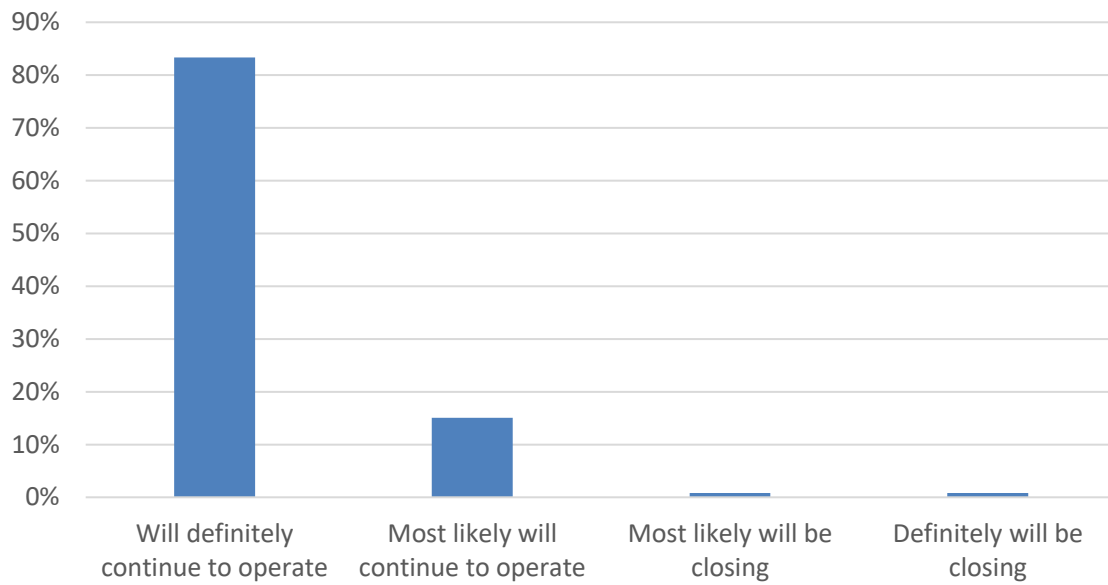


Overall Program Frequency Statistics

How viable is your program over the next few years?

	N	Valid Percent
Will definitely continue to operate	205	83.3%
Most likely will continue to operate	37	15.0%
Most likely will be closing	2	0.8%
Definitely will be closing	2	0.8%
Total	246	100.0%

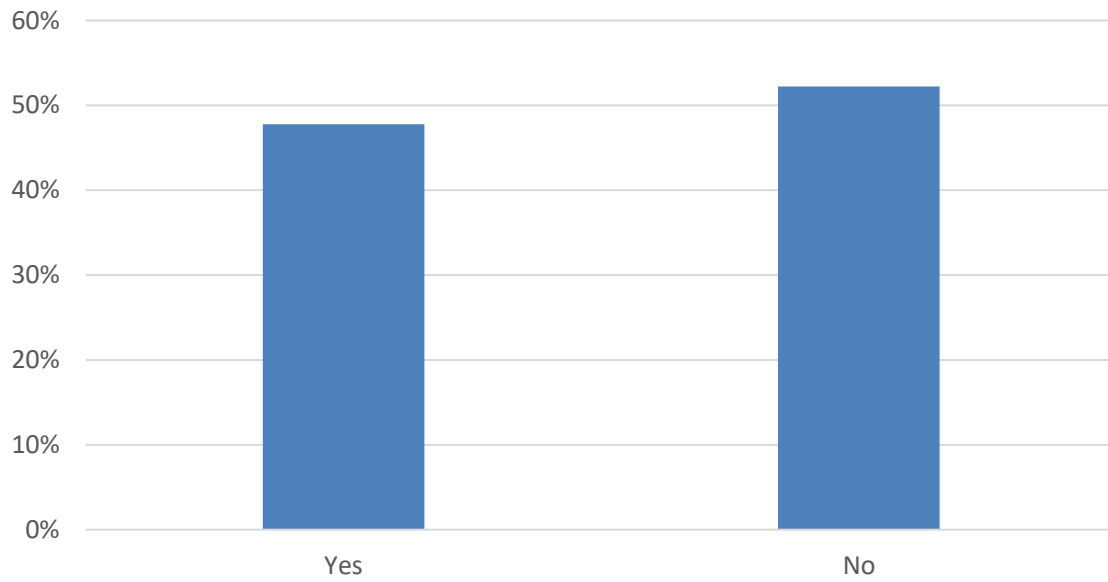
How viable is your program over the next few years?



Is your program currently at full enrollment?

	N	Valid Percent
Yes	118	47.8%
No	129	52.2%
Total	247	100.0%

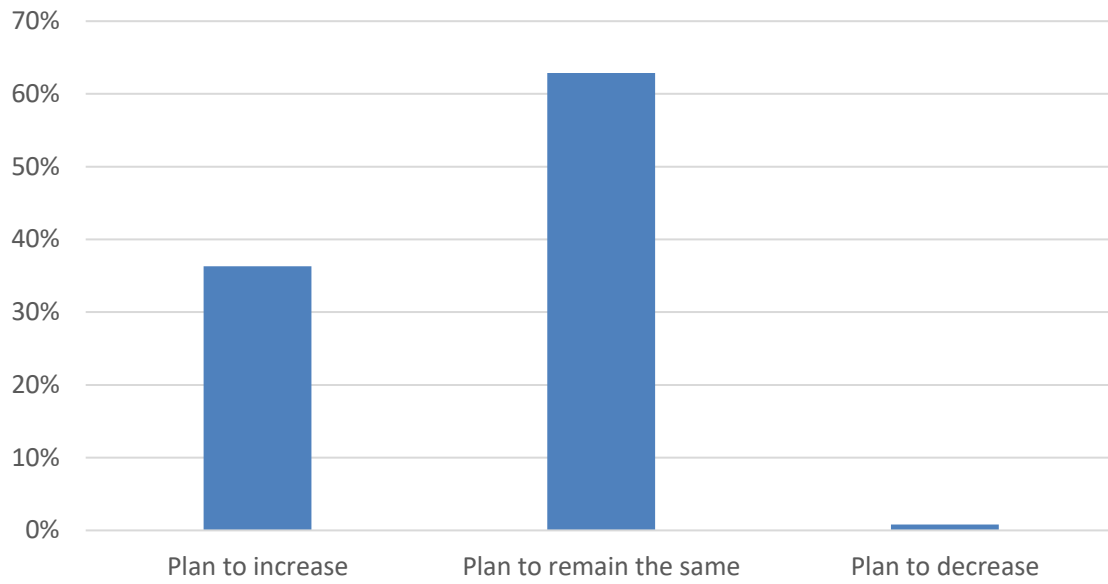
Is your program currently at full enrollment?



Do you plan any changes related to enrollment?

	N	Valid Percent
Plan to increase	89	36.3%
Plan to remain the same	154	62.9%
Plan to decrease	2	0.8%
Total	245	100.0%

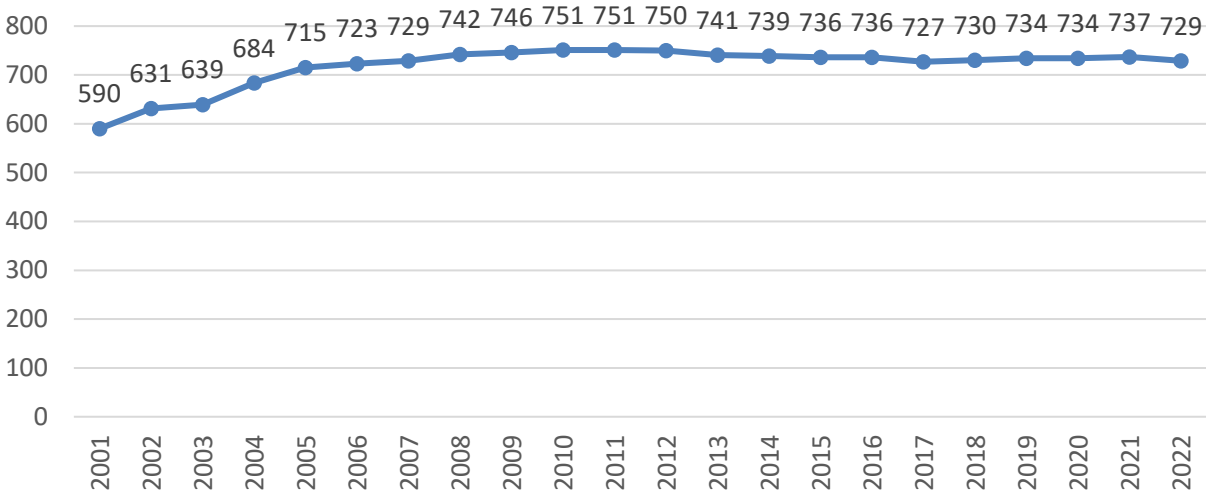
Do you plan any changes related to enrollment?



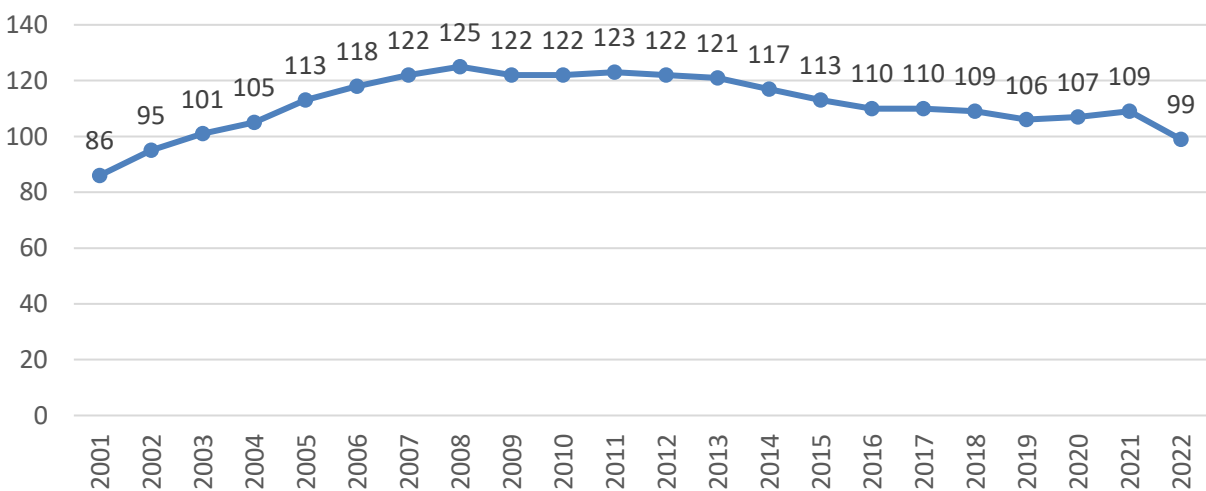
Longitudinal Enrollment Trends by Discipline

Number of ARRT-approved programs by discipline:

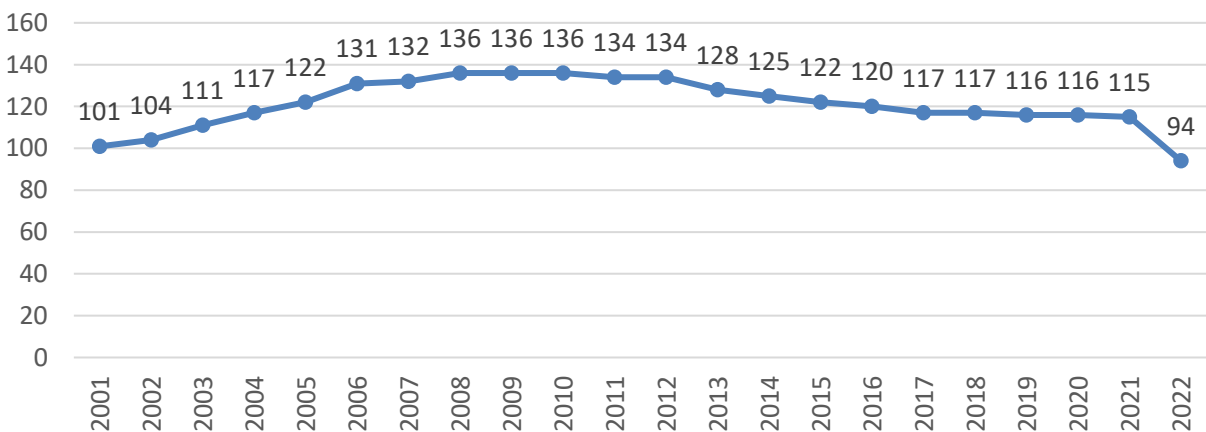
Radiography



Radiation Therapy



Nuclear Medicine Technology

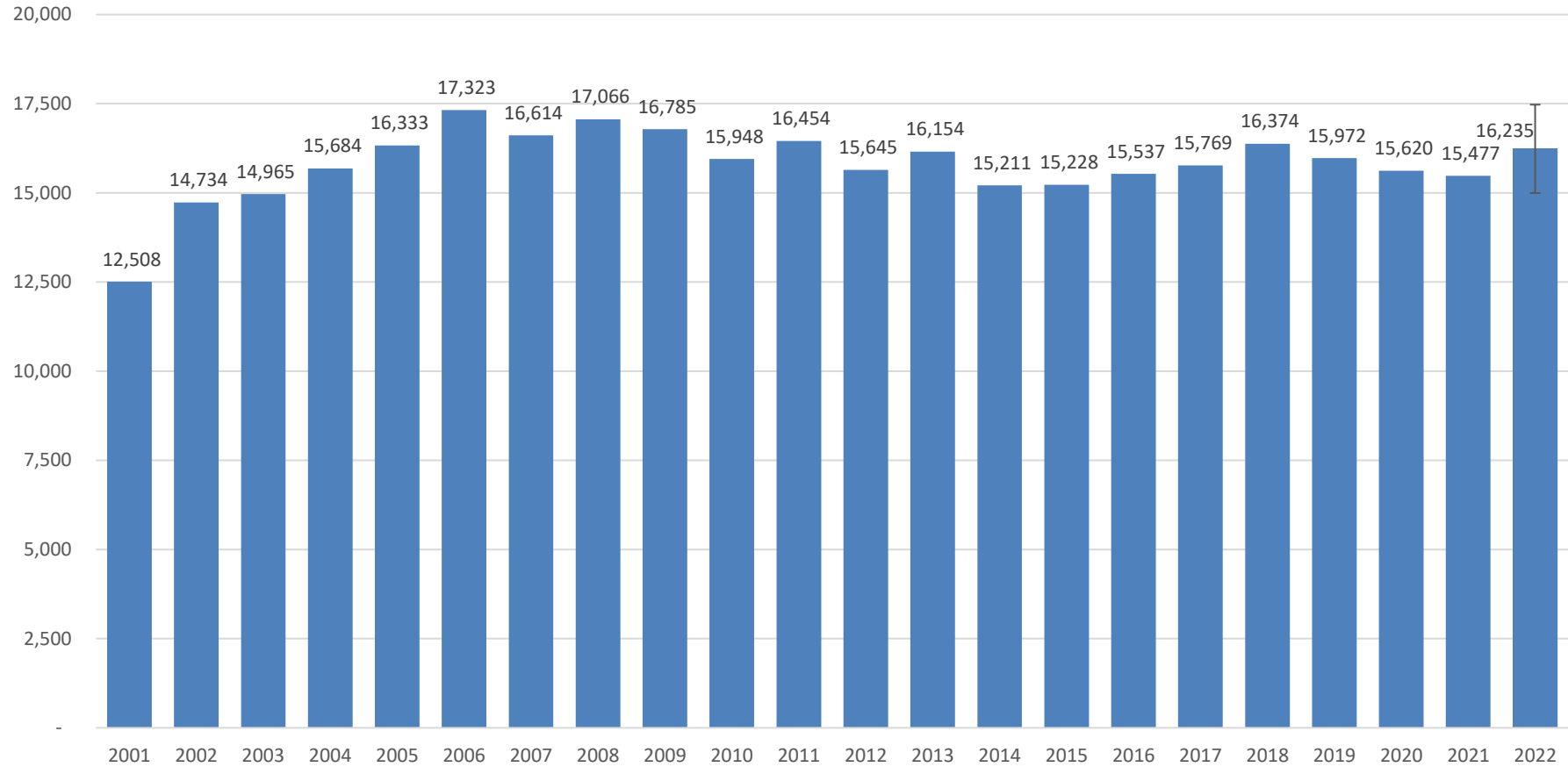


Radiography

Year	ARRT recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	590	75.4%	21.2	12,508	21.6%	50.2%	.	.	.	.
2002	631	67.5%	23.4	14,734	23.6%	30.9%	8.7	1,696	31.6	13,778
2003	639	71.4%	23.4	14,965	21.6%	21.2%	5.8	786	46.8	23,565
2004	684	68.7%	22.9	15,684	20.5%	21.7%	7.5	1,113	55.1	29,510
2005	715	66.4%	22.8	16,333	18.1%	20.9%	7.4	1,106	50.9	28,787
2006	723	74.7%	24.0	17,323	18.4%	22.6%	7.0	1,144	59.2	33,128
2007	729	69.3%	22.8	16,614	17.8%	30.2%	7.1	1,563	56.8	28,902
2008	742	71.0%	23.0	17,066	21.1%	33.3%	8.4	2,076	50.4	24,944
2009	746	61.0%	22.5	16,785	20.8%	40.0%	3.7	1,104	43.4	19,426
2010	751	65.5%	21.2	15,948	23.3%	43.7%	7.6	2,490	39.1	16,528
2011	751	57.8%	21.9	16,454	25.8%	46.2%	7.6	2,637	37.1	14,978
2012	750	62.8%	20.9	15,645	29.1%	44.9%	8.3	2,785	39.5	16,336
2013	741	50.5%	21.8	16,154	27.9%	46.5%	7.8	2,688	36.3	14,391
2014	739	49.1%	20.6	15,211	31.2%	50.3%	7.2	2,682	34.1	12,522
2015	736	54.2%	20.7	15,228	36.7%	49.9%	8.7	3,195	27.7	10,214
2016	736	39.5%	21.1	15,537	18.2%	47.6%	6.6	2,326	23.6	9,102
2017	727	35.6%	21.7	15,769	18.5%	47.5%	8.3	2,849	30.8	11,756
2018	730	40.8%	22.4	16,374	15.0%	43.3%	7.1	2,235	26.6	11,002
2019	734	36.1%	21.8	15,972	16.5%	43.0%	6.1	1,922	23.2	9,694
2020	734	37.9%	21.3	15,620	15.6%	41.0%	6.3	1,905	21.4	9,254
2021	737	29.0%	21.0	15,477	12.7%	53.7%	7.0	2,770	25.2	8,599
2022	729	25.9%	22.3	16,235	11.9%	50.6%	5.8	2,136	29.2	10,505

Estimated total number of students entering radiography programs:

2022 Confidence Interval at the 95% Level = $\pm 1,240$



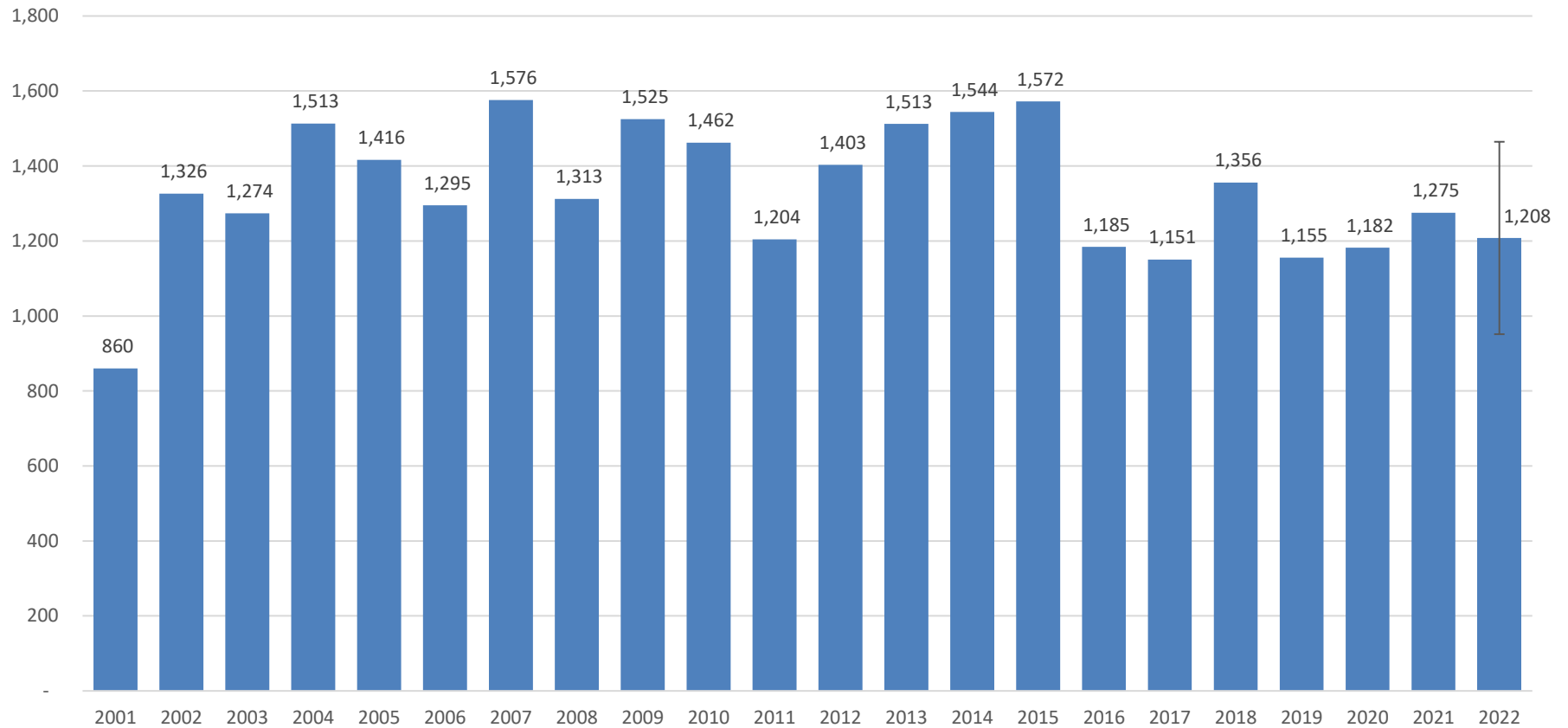
Note. The finite population correction factor was applied to the confidence interval.

Radiation Therapy

Year	ARRT recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	86	60.5%	10.0	860	18.1%	44.4%	.	.	.	.
2002	95	58.9%	14.0	1,326	11.1%	48.0%	5.7	260	9.1	450
2003	101	57.4%	12.6	1,274	18.0%	44.6%	4.4	198	13.6	761
2004	105	55.2%	14.4	1,513	11.9%	30.5%	12.5	400	13.4	978
2005	113	63.7%	12.5	1,416	16.8%	32.1%	3.4	123	24.5	1880
2006	118	68.6%	11.0	1,295	16.6%	49.3%	6.4	372	21.6	1292
2007	122	57.4%	12.9	1,576	15.2%	51.5%	6.3	396	13.3	787
2008	125	49.6%	10.5	1,313	14.4%	58.6%	4.5	330	33.0	1708
2009	122	50.8%	12.5	1,525	10.9%	55.5%	3.7	251	15.8	858
2010	122	58.2%	12.0	1,462	18.3%	49.3%	7.9	475	18.0	1112
2011	123	42.3%	9.8	1,204	21.9%	51.9%	6.1	388	14.3	846
2012	122	48.4%	11.5	1,403	18.9%	53.4%	6.9	451	14.4	818
2013	121	55.4%	12.5	1,513	21.8%	57.6%	5.7	397	17.1	877
2014	117	45.3%	13.2	1,544	26.5%	49.1%	6.2	355	15.7	935
2015	113	49.6%	13.9	1,572	24.6%	55.4%	7.1	444	14.8	746
2016	110	35.5%	10.8	1,185	7.3%	60.5%	4.6	309	11.3	492
2017	110	33.6%	10.5	1,151	10.0%	43.2%	5.2	247	16.0	998
2018	109	37.6%	12.4	1,356	9.4%	43.9%	7.7	369	29.0	1773
2019	106	29.2%	10.9	1,155	7.0%	58.1%	4.1	250	16.4	726
2020	107	36.4%	11.1	1,182	7.4%	68.0%	7.1	518	14.2	485
2021	109	33.0%	11.7	1,275	8.9%	33.3%	6.9	250	18.9	1374
2022	99	29.3%	12.2	1,208	9.2%	69.6%	4.5	310	9.6	288

Estimated total number of students entering radiation therapy programs:

2022 Confidence Interval at the 95% Level = ± 257



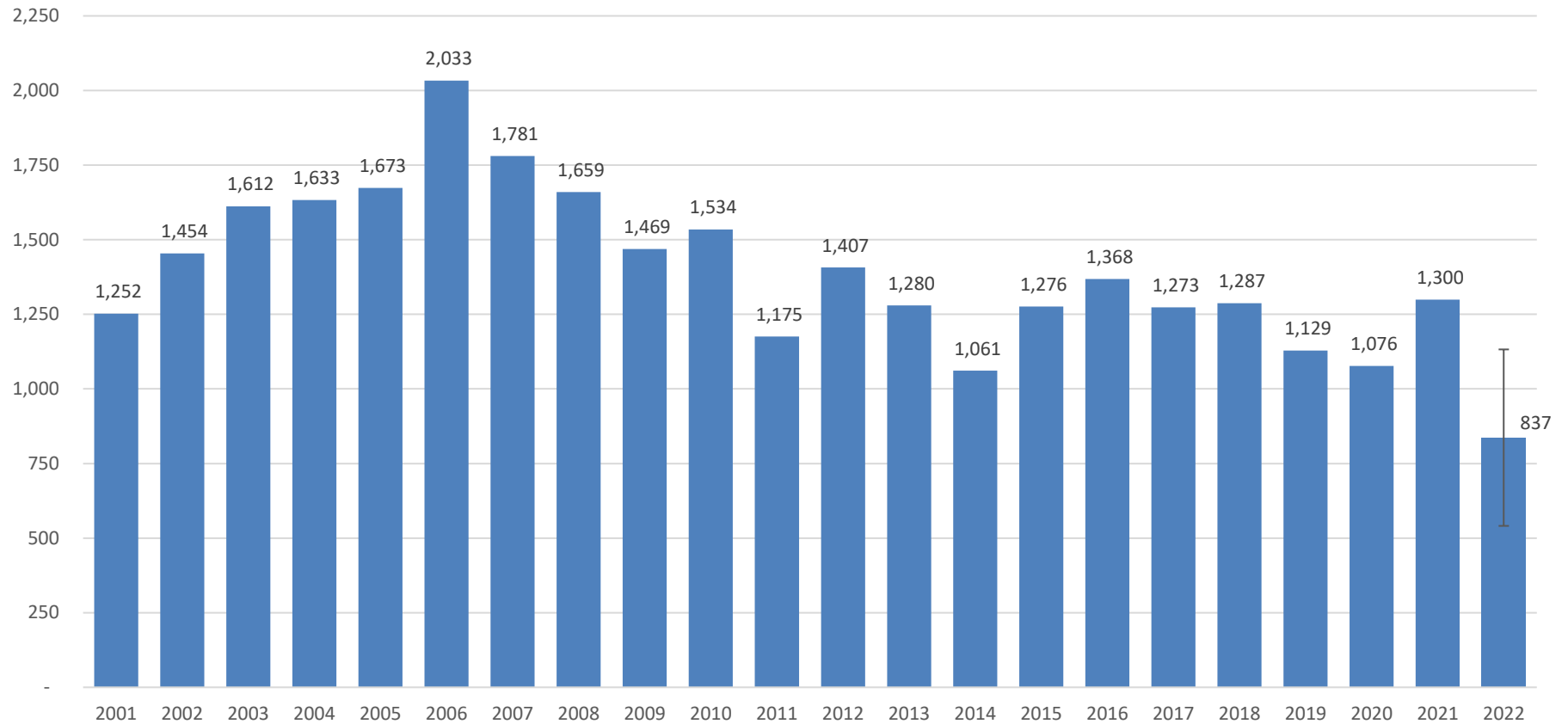
Note. The finite population correction factor was applied to the confidence interval.

Nuclear Medicine Technology

Year	ARRT recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	101	62.4%	12.4	1,252	11.8%	53.2%	.	.	.	.
2002	104	55.8%	14.0	1,454	8.0%	35.7%	6.7	249	19.7	1317
2003	111	59.5%	14.5	1,612	7.1%	33.3%	2.7	100	32.1	2377
2004	117	58.1%	14.0	1,633	9.8%	20.9%	3.6	88	24.4	2258
2005	122	57.4%	13.7	1,673	8.6%	30.6%	5.1	190	32.9	2786
2006	131	71.8%	15.5	2,033	10.2%	31.8%	5.7	237	30.2	2698
2007	132	56.8%	13.5	1,781	8.3%	39.7%	6.3	330	24.2	1926
2008	136	59.6%	12.2	1,659	12.3%	58.4%	10.0	794	18.2	1030
2009	136	48.5%	10.8	1,469	7.0%	63.0%	4.3	368	9.3	468
2010	136	48.5%	11.3	1,534	12.9%	78.8%	7.0	748	12.9	372
2011	134	47.0%	8.8	1,175	11.3%	82.5%	7.2	796	8.0	187
2012	134	56.7%	10.5	1,407	18.4%	73.0%	8.7	851	6.4	231
2013	128	46.9%	10.0	1,280	23.8%	76.1%	7.9	770	7.8	239
2014	125	42.4%	8.5	1,061	36.7%	79.2%	8.1	802	8.3	216
2015	122	50.8%	10.5	1,276	17.3%	68.9%	6.0	504	4.5	171
2016	120	33.3%	11.4	1,368	11.1%	67.5%	7.8	632	3.2	124
2017	117	27.4%	10.9	1,273	9.3%	71.9%	6.7	559	2.5	82
2018	117	23.1%	11.0	1,287	8.1%	59.3%	11.0	761	8.8	418
2019	116	22.4%	9.7	1,129	15.0%	53.8%	4.4	276	2.1	114
2020	116	21.6%	9.3	1,076	14.0%	46.4%	6.3	339	3.7	231
2021	115	21.7%	11.3	1,300	10.2%	52.0%	4.4	263	4.1	226
2022	94	14.90%	8.9	837	7.5%	77.8%	3.9	282	2	42

Estimated total number of students entering nuclear medicine technology programs:

2022 Confidence Interval at the 95% Level = ± 296

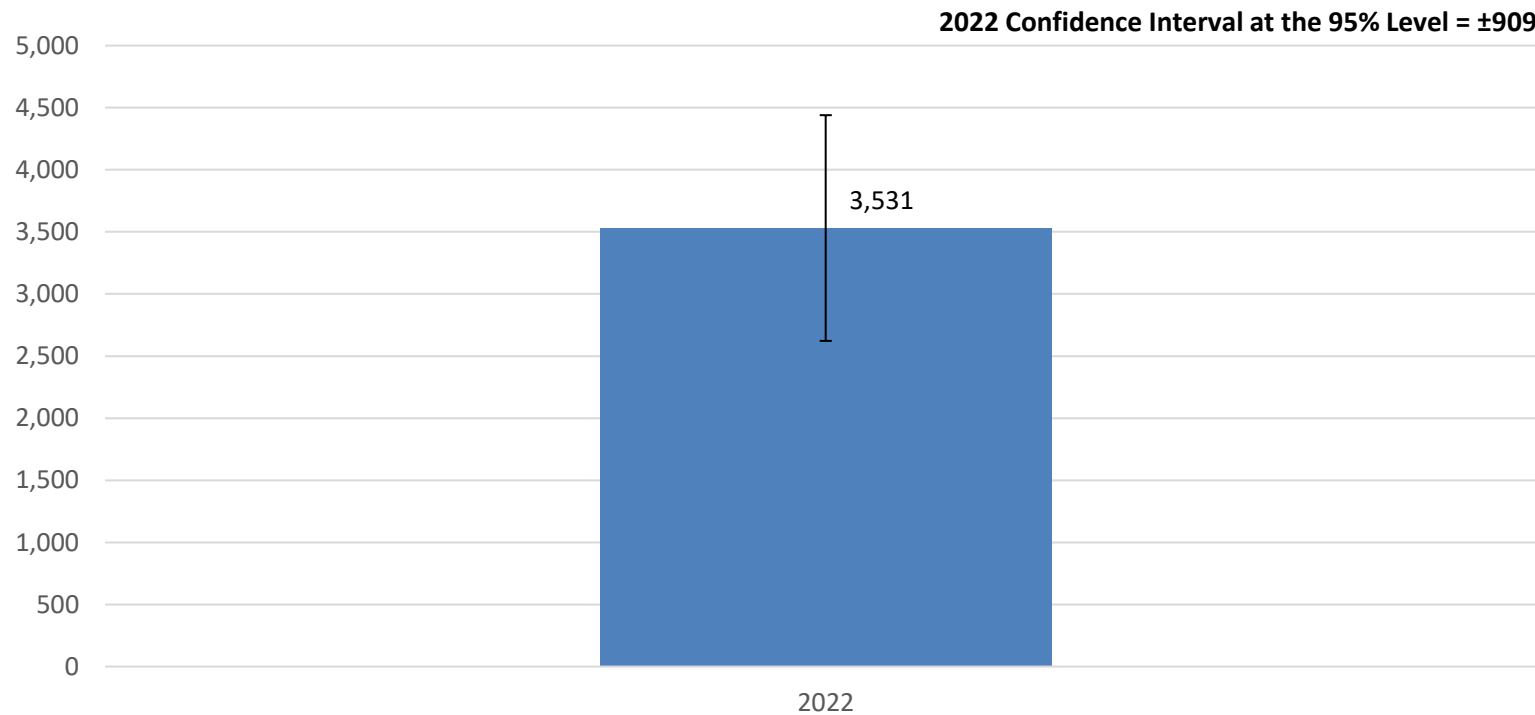


Note. The finite population correction factor was applied to the confidence interval.

Sonography

Year	ARRT recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2022	214	14.0%	16.5	3,531	16.2%	63.6%	6.0	817	4.5	351

Estimated total number of students entering sonography programs:



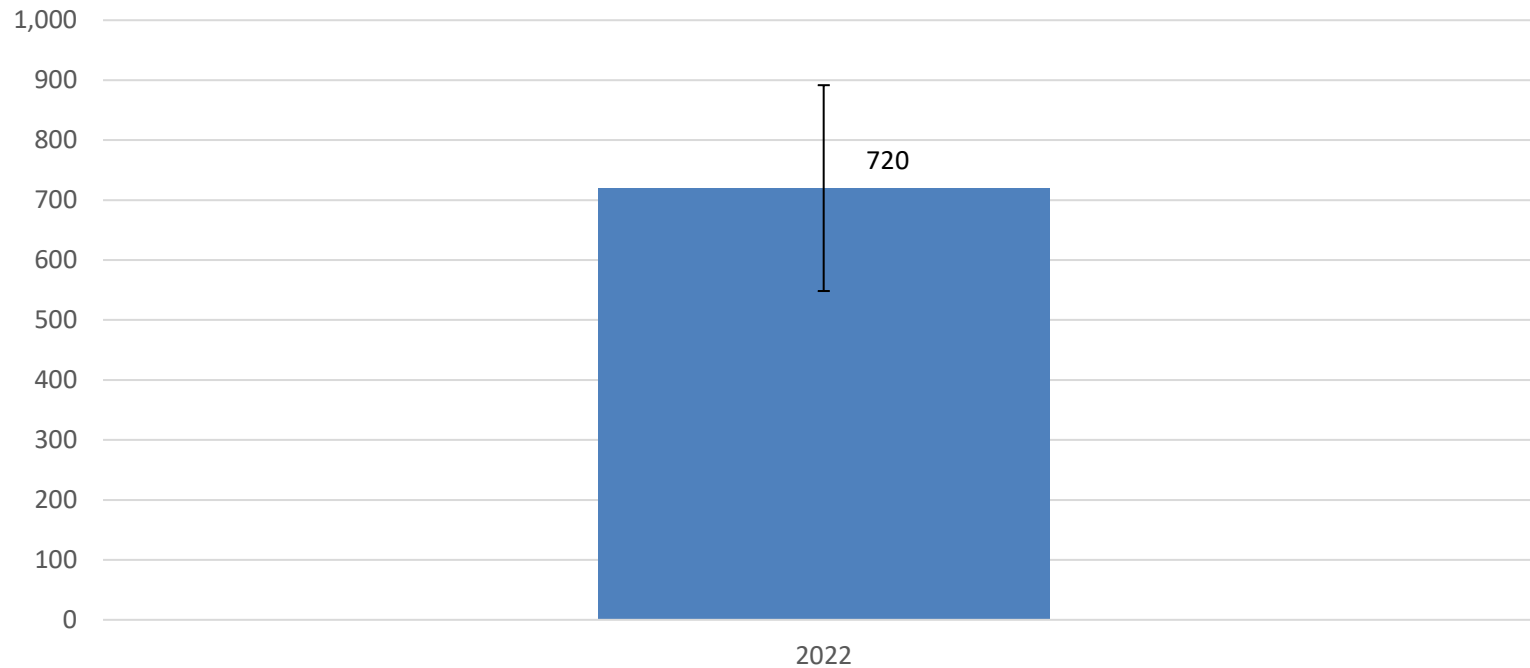
Note. The finite population correction factor was applied to the confidence interval.

Magnetic Resonance Imaging

Year	ARRT recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2022	61	49.2%	11.8	720	4.1%	75.0%	10.0	458	0	0

Estimated total number of students entering magnetic resonance imaging programs:

2022 Confidence Interval at the 95% Level = ± 172



Note. The finite population correction factor was applied to the confidence interval.

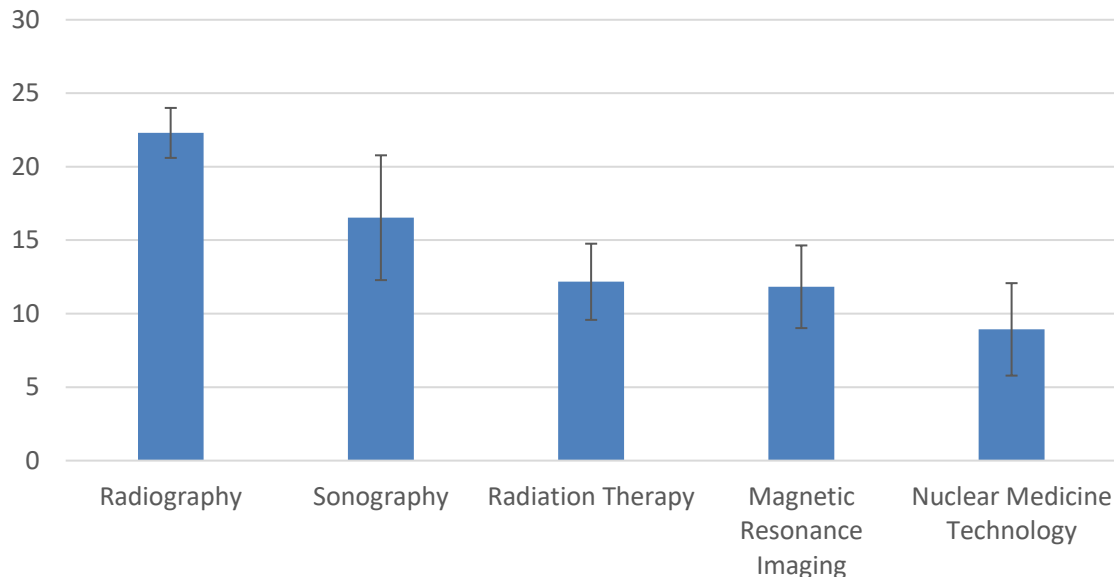
Discipline Comparisons

Number of students entering classroom

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
Radiography	22.3	189	13.9	20.6	24.0
Sonography	16.5	30	12.8	12.3	20.8
Radiation Therapy	12.2	29	8.4	9.6	14.8
Magnetic Resonance Imaging	11.8	30	10.9	9.0	14.6
Nuclear Medicine Technology	8.9	14	6.5	5.8	12.1

Note. The finite population correction factor was applied to the CIs.

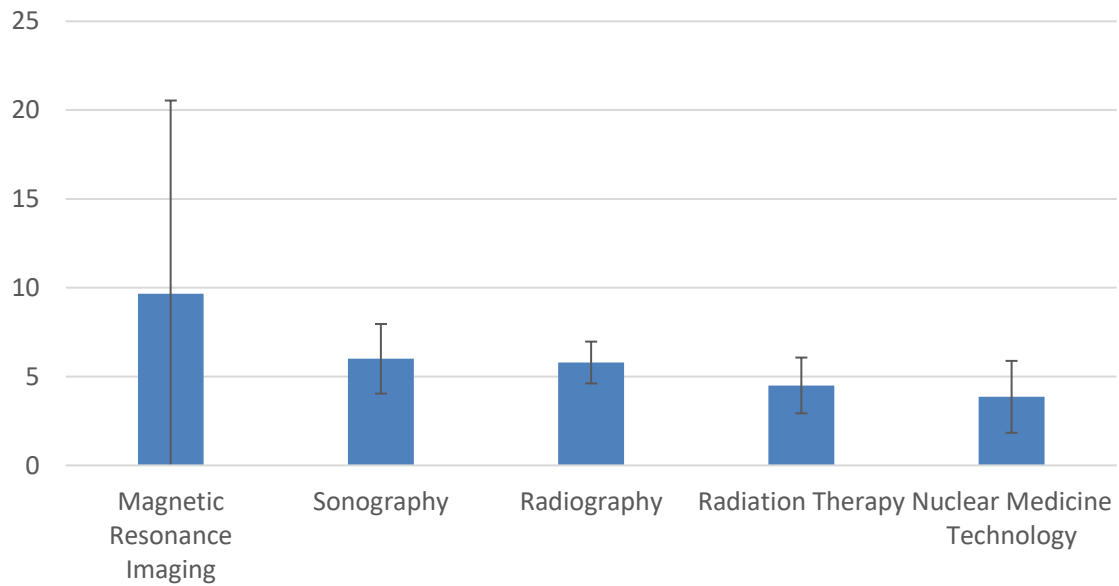
Number of students entering classroom (Mean)



Additional students per program for those not at full capacity

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
Magnetic Resonance Imaging	9.7	3	9.6	0.0	20.5
Sonography	6.0	7	2.6	4.0	8.0
Radiography	5.8	79	5.3	4.6	7.0
Radiation Therapy	4.5	16	3.2	2.9	6.1
Nuclear Medicine Technology	3.9	7	2.7	1.8	5.9
Total	5.6	112	5.0	4.7	6.5

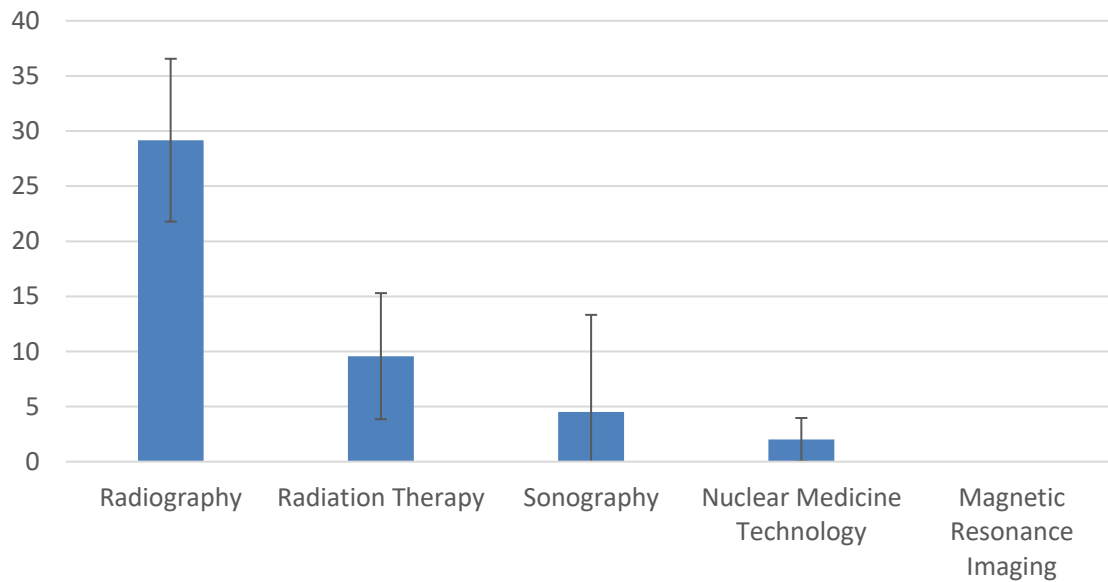
Additional students per program for those not at full capacity (Mean)



How many qualified students did you turn away this fall?

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
Radiography	29.2	71	31.8	21.8	36.6
Radiation Therapy	9.6	7	7.7	3.9	15.3
Sonography	4.5	4	9.0	0.0	13.3
Nuclear Medicine Technology	2.0	2	1.4	0.0	4.0
Magnetic Resonance Imaging	0.0	1	.	.	.
Total	25.4	85	30.4	19.0	31.9

How many qualified students did you turn away this fall? (Mean)

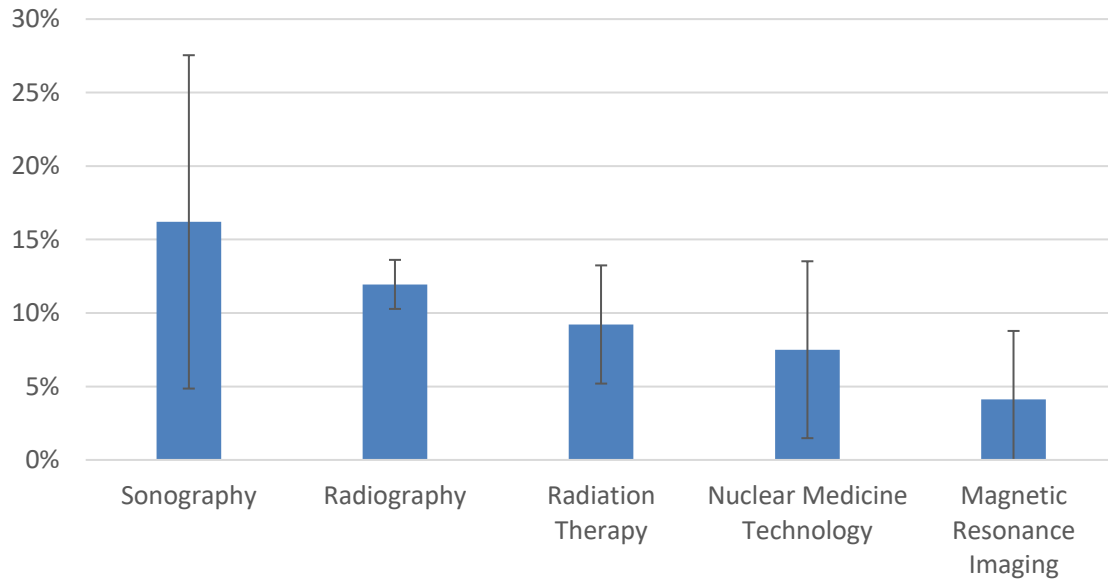


Attrition Rate

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
Sonography	16.2%	10	18.7%	4.9%	27.5%
Radiography	11.9%	155	11.9%	10.1%	13.8%
Radiation Therapy	9.2%	22	10.9%	4.8%	13.7%
Nuclear Medicine Technology	7.5%	9	9.6%	1.3%	13.7%
Magnetic Resonance Imaging	4.1%	4	4.9%	0.0%	8.8%
Total	11.5%	200	12.1%	9.9%	13.1%

Note. The finite population correction factor was applied to the CIs.

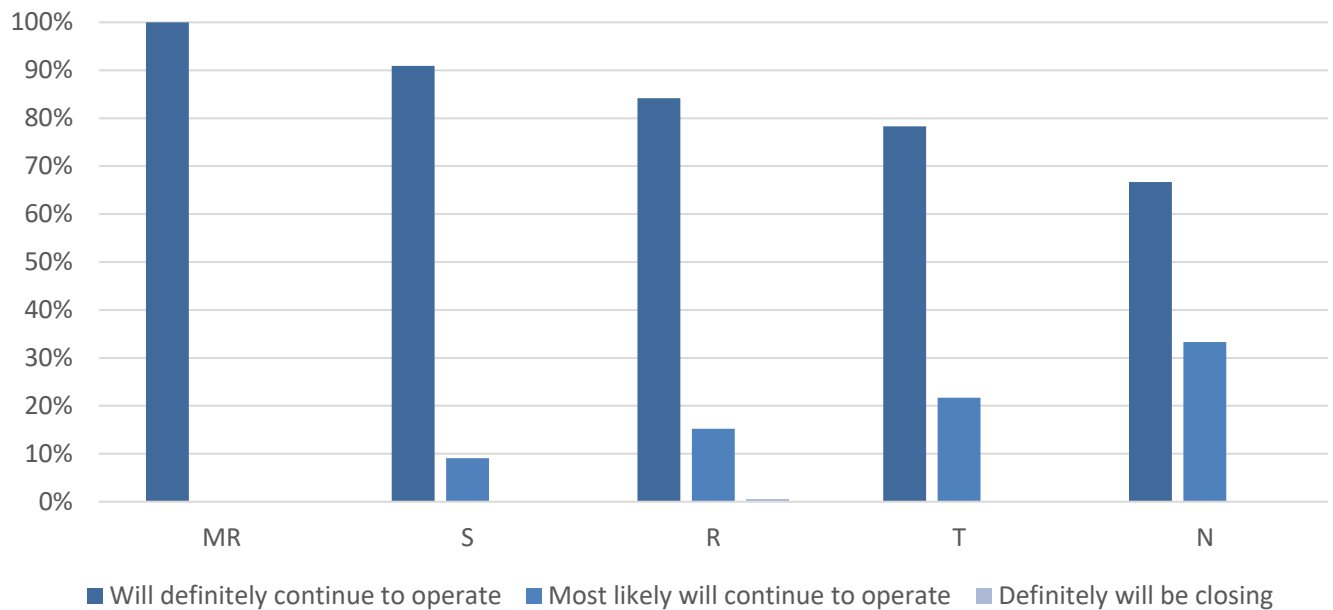
Attrition Rate (Mean)



How viable is your program over the next few years?

		MR	S	R	T	N	Overall
Will definitely continue to operate	N	4	10	133	18	6	171
	%	100.0%	90.9%	84.2%	78.3%	66.7%	83.4%
Most likely will continue to operate	N	0	1	24	5	3	33
	%	0.0%	9.1%	15.2%	21.7%	33.3%	16.1%
Definitely will be closing	N	0	0	1	0	0	1
	%	0.0%	0.0%	0.6%	0.0%	0.0%	0.5%
Total	N	4	11	158	23	9	205
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

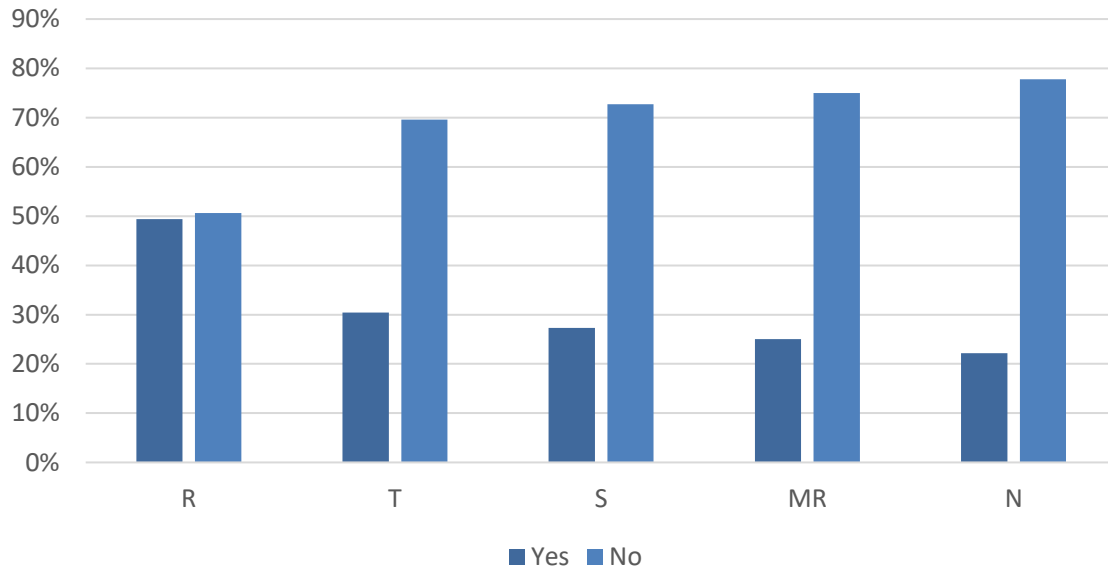
How viable is your program over the next few years?



Is your program currently at full enrollment?

		R	T	S	MR	N	Overall
Yes	N	78	7	3	1	2	92
	%	49.4%	30.4%	27.3%	25.0%	22.2%	44.9%
No	N	80	16	8	3	7	113
	%	50.6%	69.6%	72.7%	75.0%	77.8%	55.1%
Total	N	158	23	11	4	9	205
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

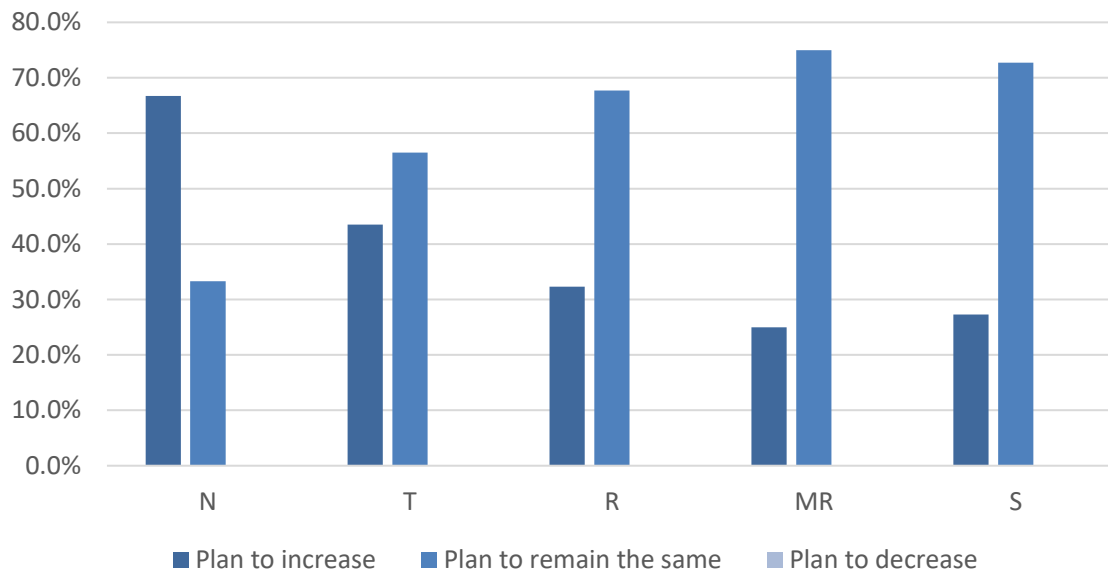
Is your program currently at full enrollment?



Do you plan any changes related to enrollment?

		N	T	R	MR	S	Overall
Plan to increase	N	6	10	51	1	3	71
	%	66.7%	43.5%	32.3%	25.0%	27.3%	34.6%
Plan to remain the same	N	3	13	107	3	8	134
	%	33.3%	56.5%	67.7%	75.0%	72.7%	65.4%
Plan to decrease	N	0	0	0	0	0	0
	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	N	9	23	158	4	11	205
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Do you plan any changes related to enrollment?

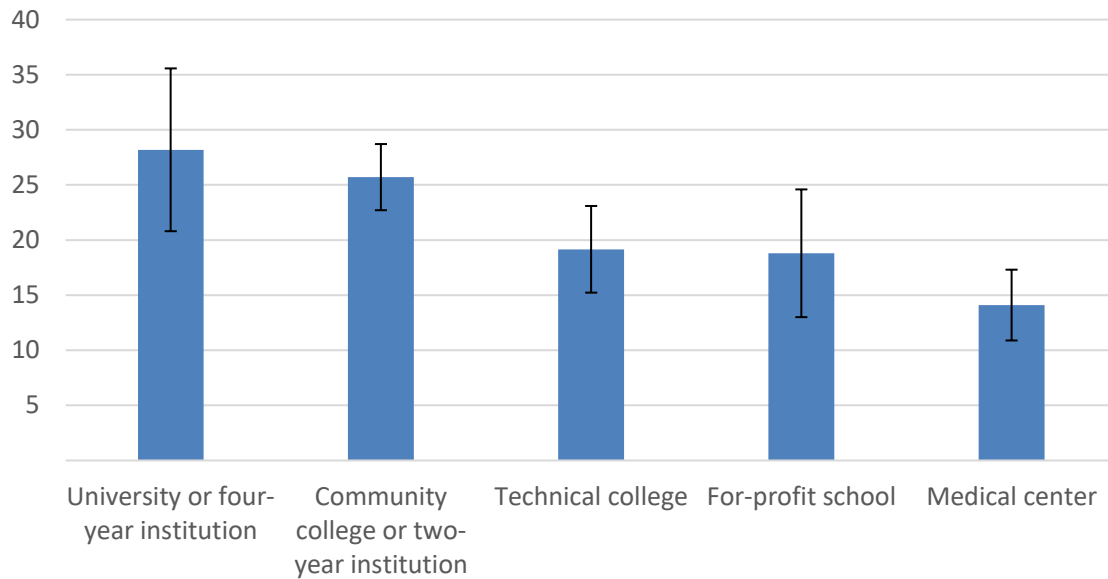


Institution Comparisons

Number of students entering classroom

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
University or four-year institution	28.2	64	30.1	20.8	35.6
Community college or two-year institution	25.7	100	15.3	22.7	28.7
Technical college	19.2	19	8.7	15.2	23.1
For-profit school	18.8	5	6.6	13.0	24.6
Medical center	14.1	50	11.6	10.9	17.3
Total	23.3	238	20.1	20.7	25.8

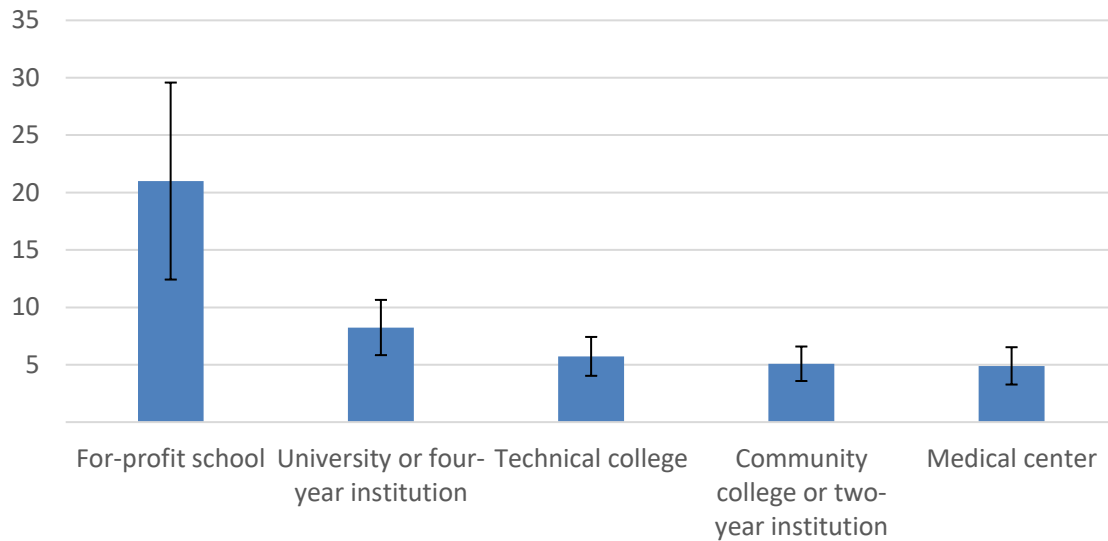
Number of students entering classroom (Mean)



Additional students per program for those not at full capacity

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
For-profit school	21.0	4	8.8	12.4	29.6
University or four-year institution	8.2	35	7.3	5.8	10.6
Technical college	5.7	11	2.9	4.0	7.4
Community college or two-year institution	5.1	47	5.2	3.6	6.6
Medical center	4.9	30	4.5	3.3	6.5
Total	6.5	127	6.4	5.4	7.6

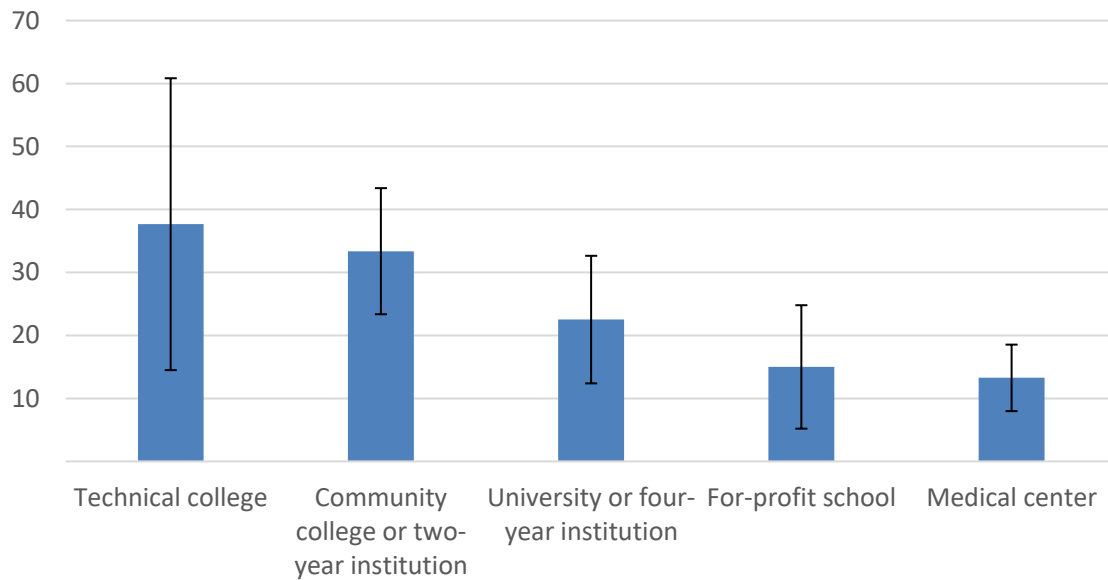
Additional students per program for those not at full capacity (Mean)



How many qualified students did you turn away this fall?

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
Technical college	37.7	6	29.0	14.5	60.8
Community college or two-year institution	33.4	48	35.4	23.4	43.4
University or four-year institution	22.5	31	28.8	12.4	32.6
For-profit school	15.0	2	7.1	5.2	24.8
Medical center	13.3	23	12.9	8.0	18.5
Total	26.0	110	30.2	20.4	31.7

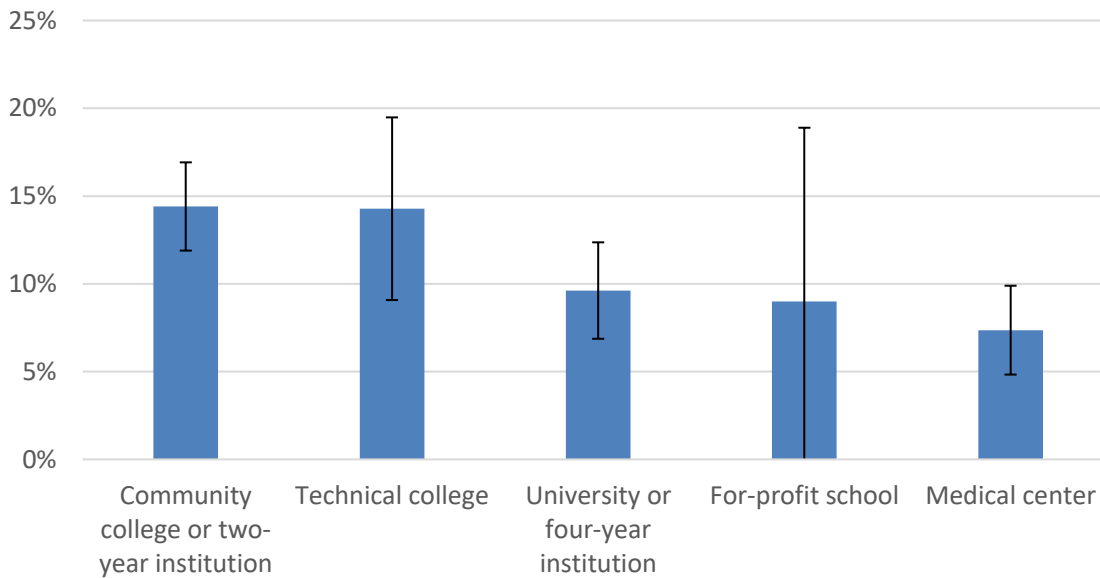
How many qualified students did you turn away this fall? (Mean)



Attrition Rate

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
Community college or two-year institution	14.4%	97	12.6%	11.9%	16.9%
Technical college	14.3%	19	11.6%	9.1%	19.5%
University or four-year institution	9.6%	66	11.4%	6.9%	12.4%
For-profit school	9.0%	6	12.4%	0.0%	18.9%
Medical center	7.4%	53	9.4%	4.8%	9.9%
Total	11.4%	241	11.8%	9.9%	12.9%

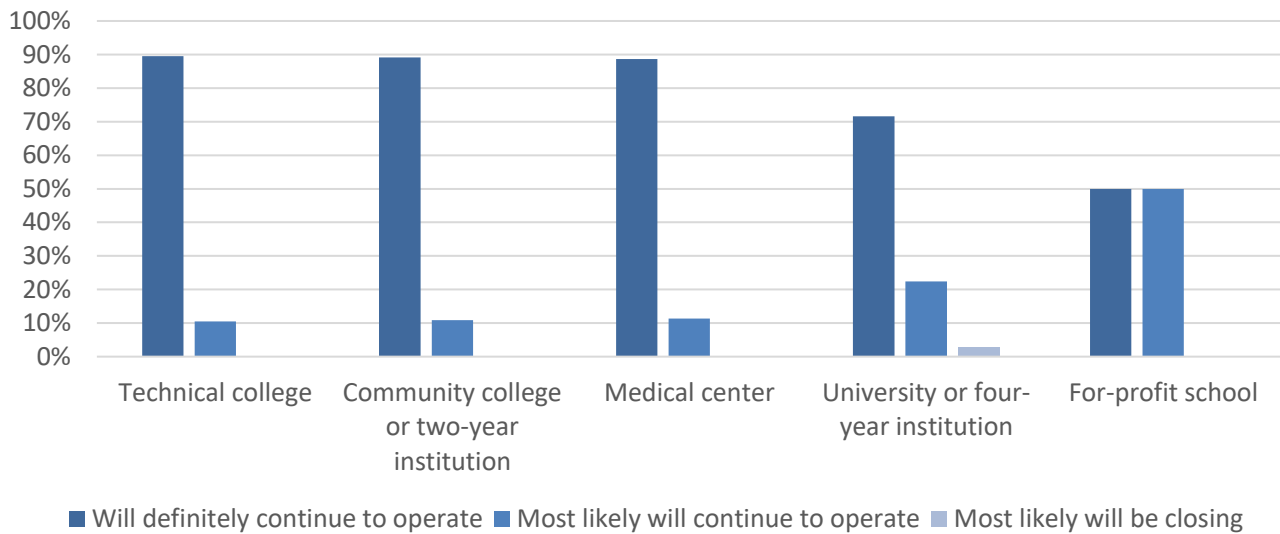
Attrition Rate



How viable is your program over the next few years?

		Technical college	Community college or two-year institution	Medical center	University or four-year institution	For-profit school	Overall
Will definitely continue to operate	N	17	90	47	48	3	205
	%	89.5%	89.1%	88.7%	71.6%	50.0%	83.3%
Most likely will continue to operate	N	2	11	6	15	3	37
	%	10.5%	10.9%	11.3%	22.4%	50.0%	15.0%
Most likely will be closing	N	0	0	0	2	0	2
	%	0.0%	0.0%	0.0%	3.0%	0.0%	0.8%
Definitely will be closing	N	0	0	0	2	0	2
	%	0.0%	0.0%	0.0%	3.0%	0.0%	0.8%
Total	N	19	101	53	67	6	246
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

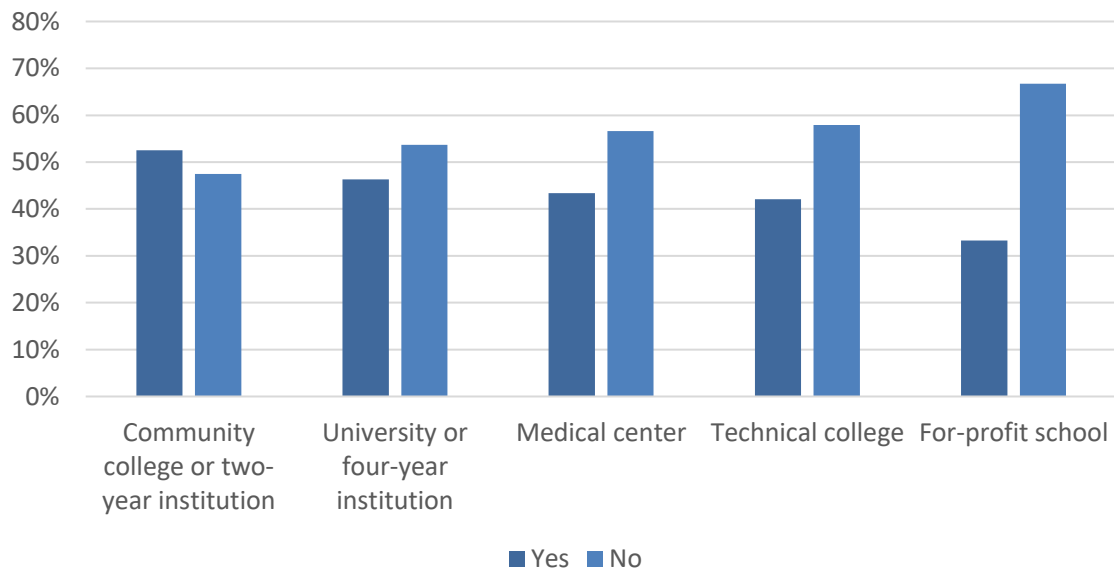
How viable is your program over the next few years?



Is your program currently at full enrollment?

		Community college or two-year institution	University or four-year institution	Medical center	Technical college	For-profit school	Overall
Yes	N	53	31	23	8	2	117
	%	52.5%	46.3%	43.4%	42.1%	33.3%	47.6%
No	N	48	36	30	11	4	129
	%	47.5%	53.7%	56.6%	57.9%	66.7%	52.4%
Total	N	101	67	53	19	6	246
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

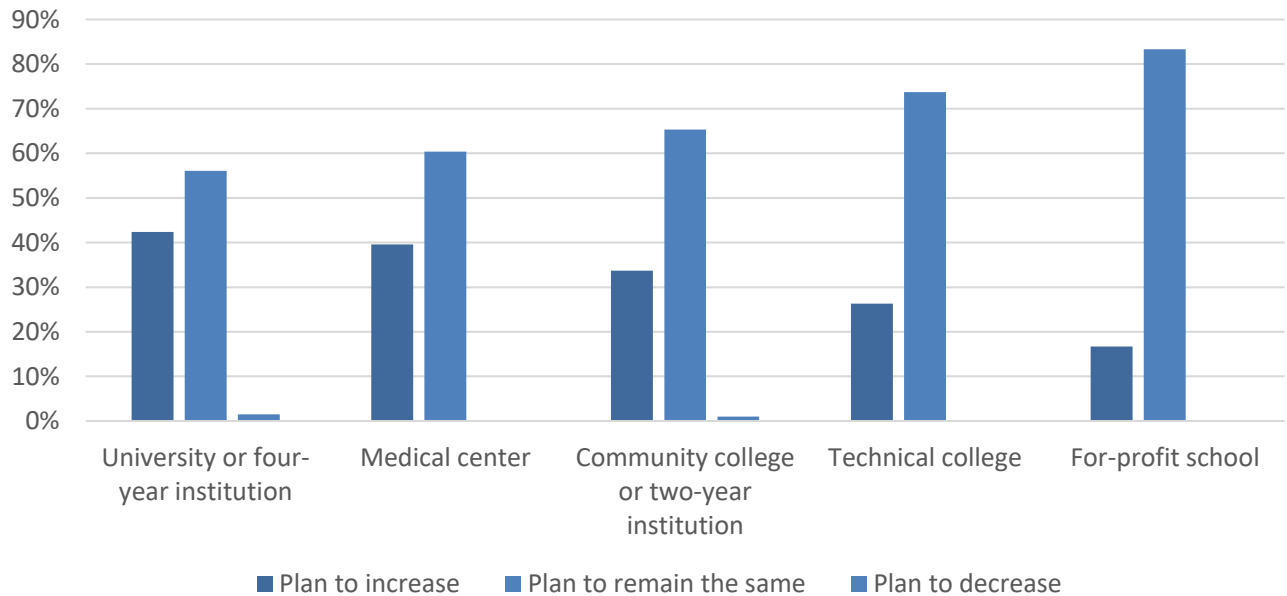
Is your program currently at full enrollment?



Do you plan any changes related to enrollment?

		University or four-year institution	Medical center	Community college or two-year institution	Technical college	For-profit school	Overall
Plan to increase	N	28	21	34	5	1	89
	%	42.4%	39.6%	33.7%	26.3%	16.7%	36.3%
Plan to remain the same	N	37	32	66	14	5	154
	%	56.1%	60.4%	65.3%	73.7%	83.3%	62.9%
Plan to decrease	N	1	0	1	0	0	2
	%	1.5%	0.0%	1.0%	0.0%	0.0%	0.8%
Total	N	66	53	101	19	6	245
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

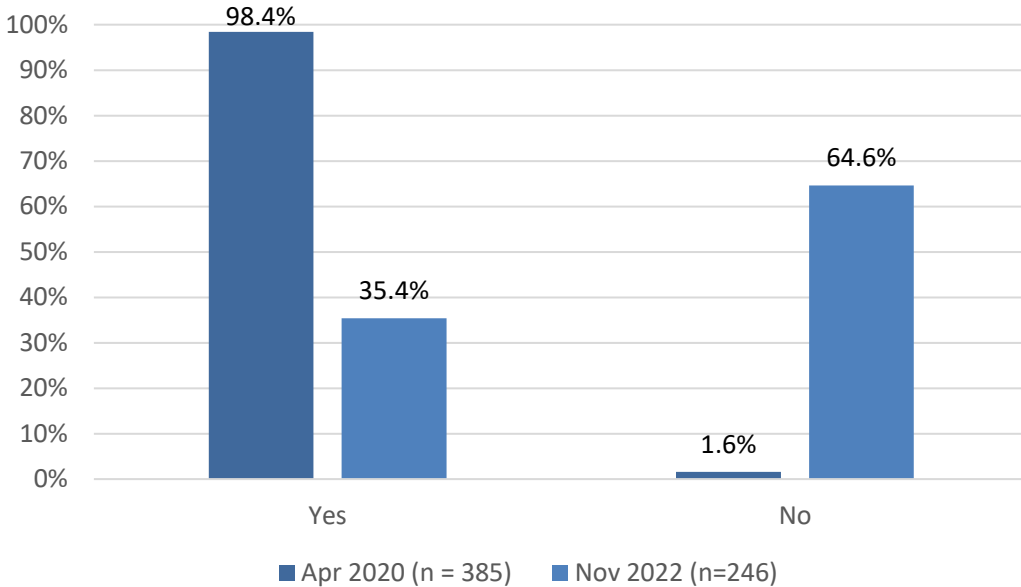
Do you plan any changes related to enrollment?



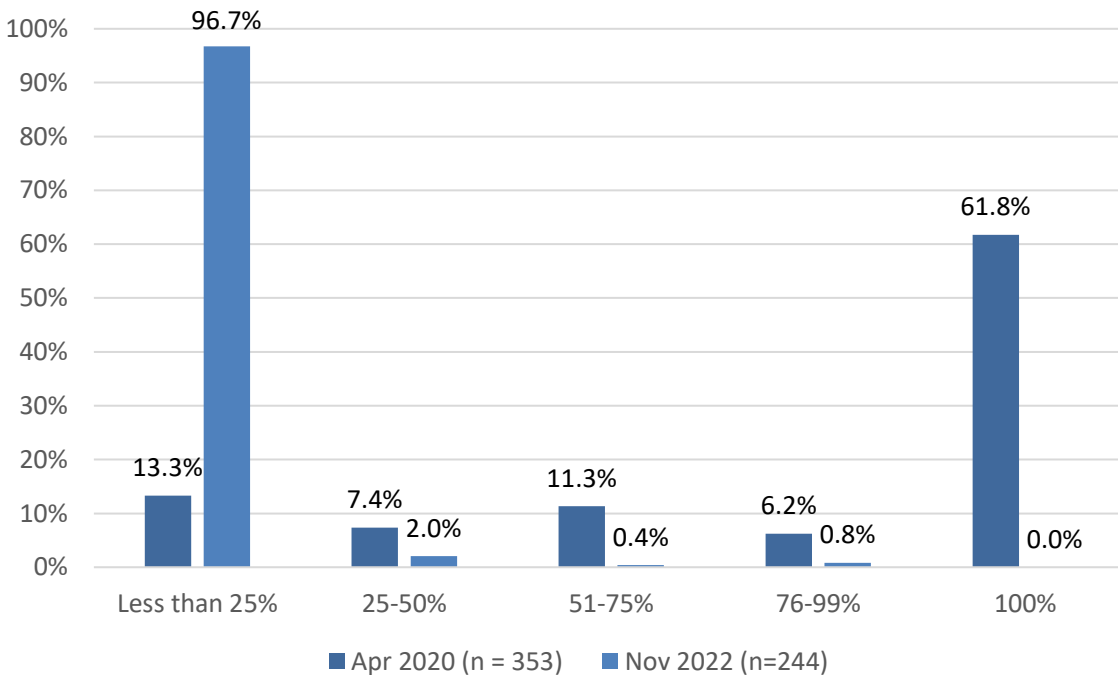
COVID-19 Clinical Education Questions

Comparison between the April 2020 COVID-19 Educational Survey and the current 2022 Enrollment Survey.

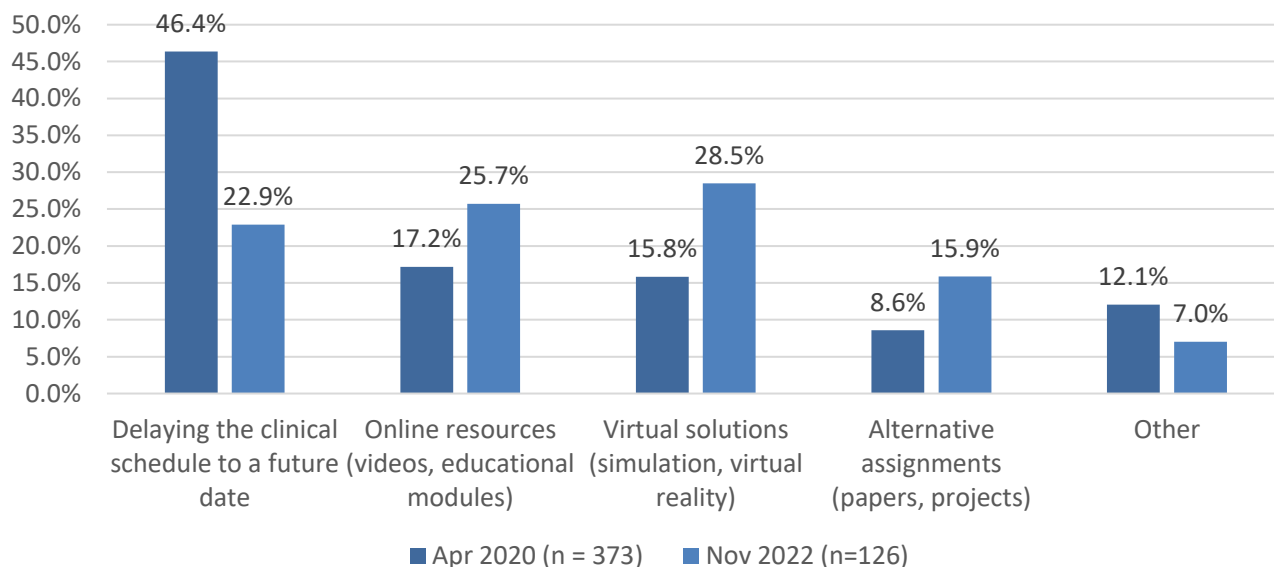
Has the response to the COVID-19 virus reduced your ability to place students in a clinical rotation as you normally would?



Approximately what percentage of the clinical rotation schedule has been eliminated due to COVID-19?



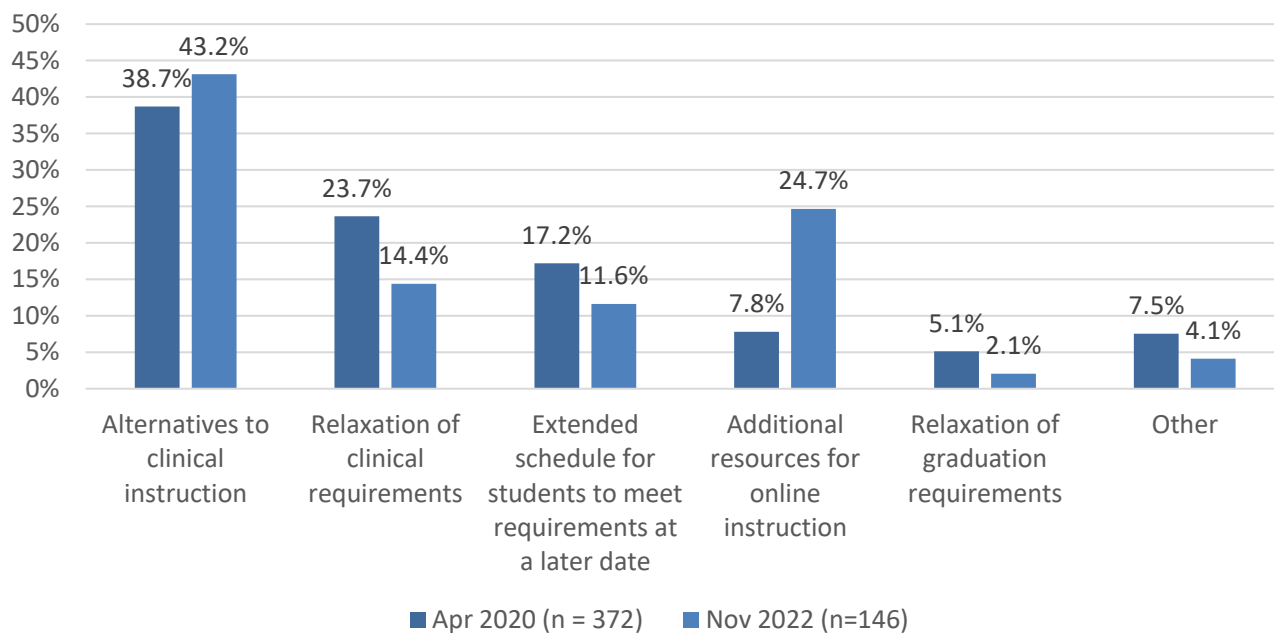
What alternatives are your program using to compensate for the reduced clinical schedule?



Note. An additional 81 respondents (39.1% of the total who responded to this question) indicated that their program had returned to their normal pre COVID-19 clinical schedule in the “Other” category. These responses were not computed in the “Other” percentage above.

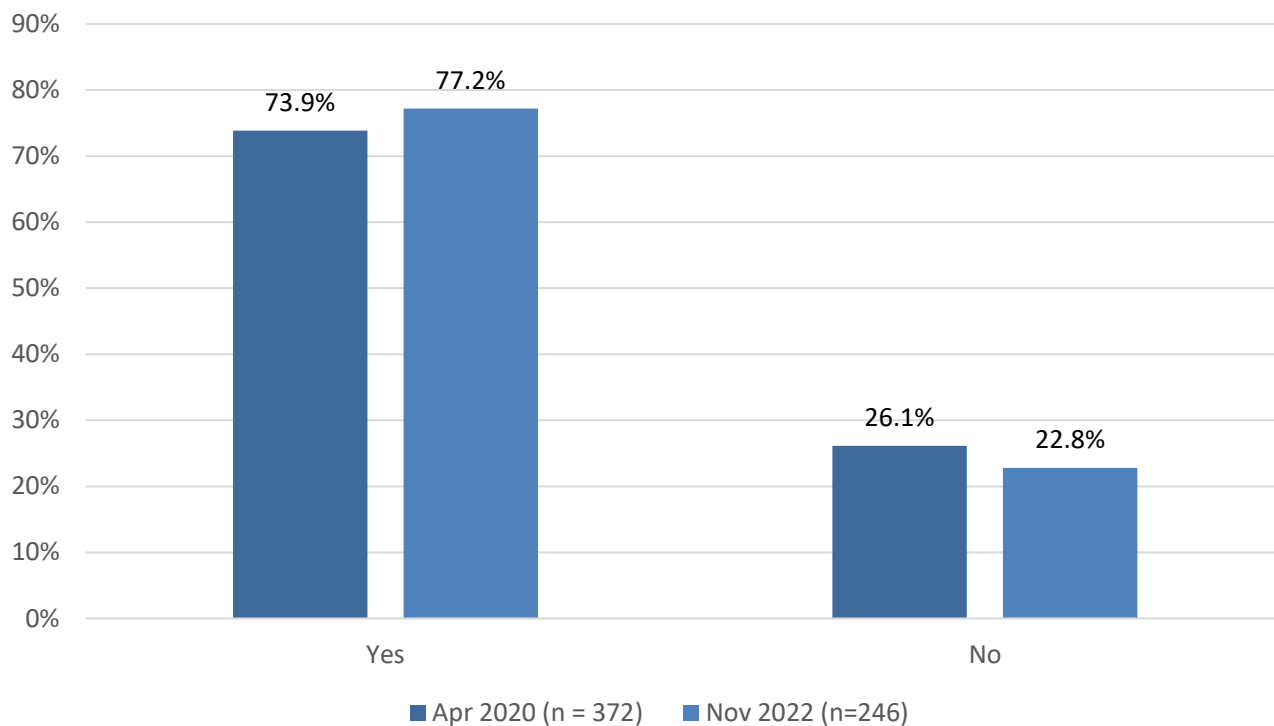
What is the most immediate need for your program in order to respond to the reduced clinical schedule?

Title

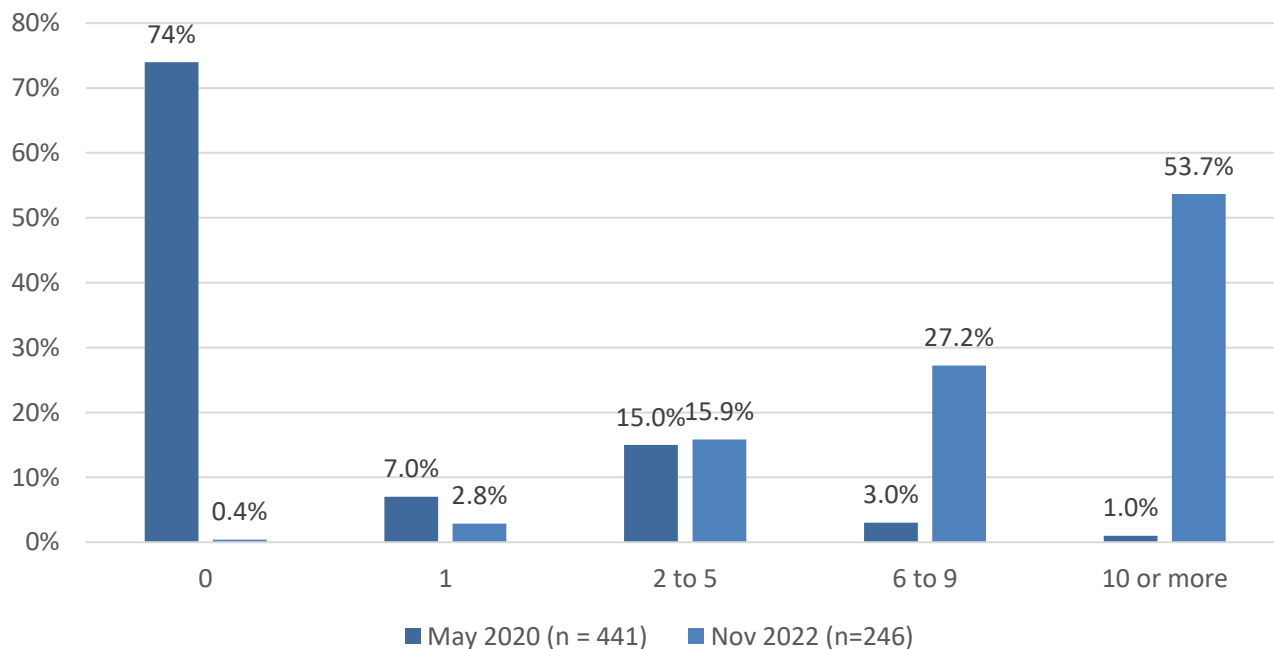


Note. An additional 67 respondents (31.5% of the total who responded to this question) indicated that their program had returned to their normal pre COVID-19 clinical schedule in the “Other” category. These responses were not computed in the “Other” percentage above.

Does your program allow students to perform examinations on known or suspected COVID-19 patients?



How many clinical sites are currently allowing students to complete clinical procedures at their site?²



² This question was originally asked by the ARRT in the May 2020 survey *Radiography Educational Program Director Survey Results & Analysis*