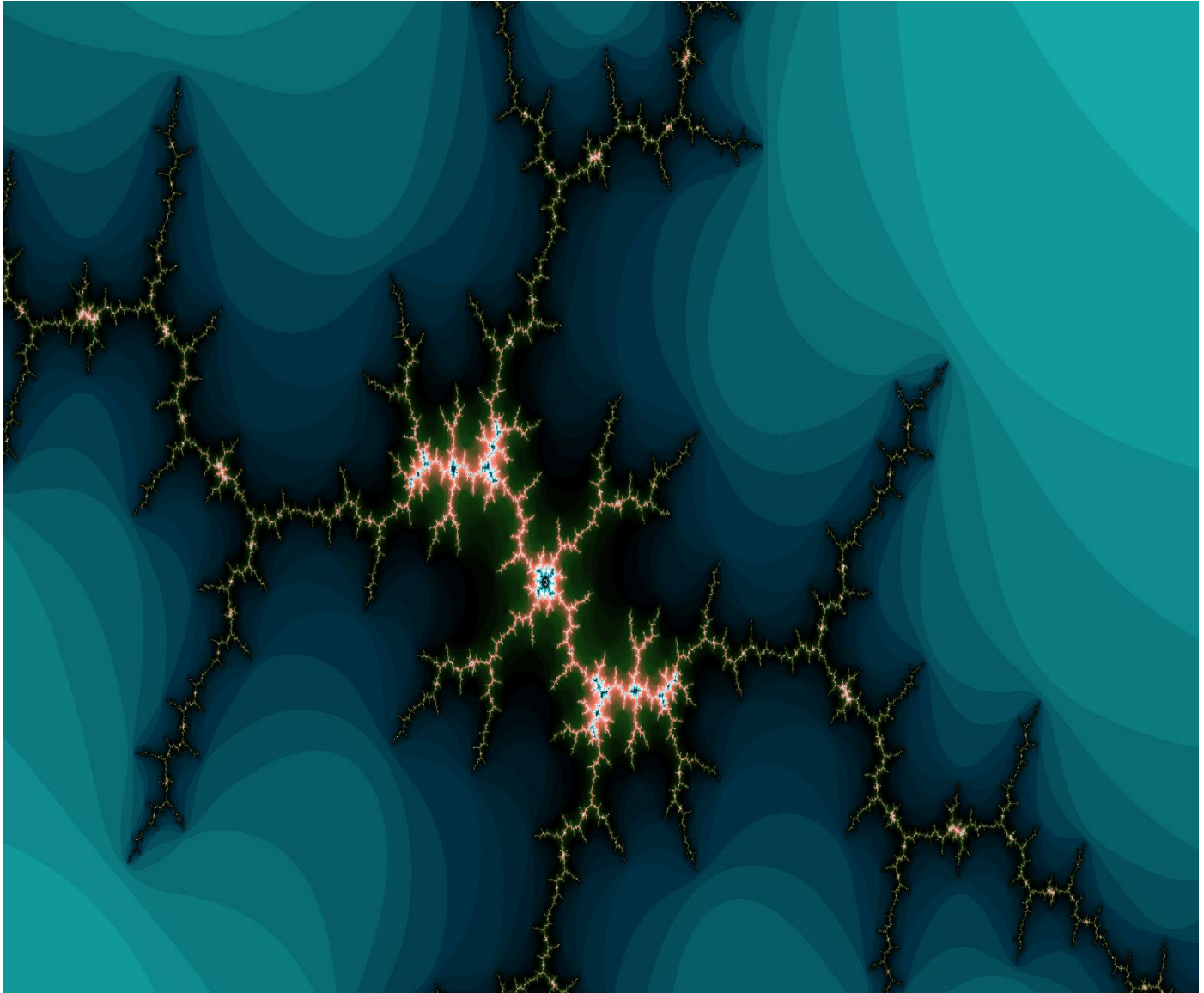


Enrollment Snapshot 2023



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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

Sample

In late September 2023, an invitation to complete an online questionnaire was sent via email to 1,209 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 late October 2023, a total of 301 responses had been received, yielding an overall response rate of 28.5%.

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 95% Level
Radiography	221	734	30.1%	±5.5%
Radiation Therapy	40	97	41.2%	±11.9%
Nuclear Medicine Technology	23	94	24.5%	±17.9%
Sonography	29	224	12.9%	±17.0%
Magnetic Resonance Imaging	32	60	53.3%	±11.9%
Total	345	1,209	28.5%	±4.5%

Representation

A test of proportions for each discipline and Bonferroni post hoc tests indicated that the sample proportion for sonography was statistically different from the population proportion ($P \leq .0125$). Proportional weights derived from the population distribution were computed and comparisons were made between unweighted and weighted aggregated descriptive and frequency statistics. The differences were not statistically significant; therefore, unweighted statistics are presented in this report.

Demographics

Most responses to the survey were from programs offering instruction in radiography (64.1%); 11.6% were from radiation therapy programs, 9.3% from magnetic resonance imaging (MRI) programs, 8.4% were from sonography programs, and 6.7% from programs offering instruction in nuclear medicine technology (NMT).

A plurality of respondents (48.8%) work at a community college; 20.5% work at a university, 18.2% at a medical center, 8.4% at a technical college, and 4.0% at a for-profit school.

The most common terminal degree offered by responding institutions is an associate degree (79.7%); another 20.3% offer a bachelor's degree.

The majority of programs surveyed (97.3%) are located in the United States; the remaining 2.7% are in Canada.

Of the programs responding, 21.9% were in the South Atlantic region, with 18.5% from the East North Central region. The lowest response rates were from the Pacific region (4.8%) and New England (4.5%).

2023 Student Capacity

Asked whether their program is currently at full enrollment, 55.5% of responding programs said yes and 44.5% said no.

Programs not at full enrollment were asked how many additional students their program could accommodate. An estimated 6.7 additional students could be accommodated at radiography programs, 15.3 at radiation therapy programs, 3.7 at NMT

programs, 4.0 at sonography programs, and 4.4 at MRI programs.

For programs not at capacity, this produces an estimate of 2,136 additional spaces for students across all radiography programs, 722 additional spaces for students across all radiation therapy programs, 205 additional spaces for students across all NMT programs, 138 additional spaces for students across all sonography programs, and 165 additional spaces for students across all MRI programs.

The mean number of qualified students turned away by radiography programs was 32.6. Radiation therapy programs turned away an average of 8.3 qualified students, NMT programs turned away an average of 6.6 qualified students, sonography programs turned away an average of 39.4 qualified students and MRI programs turned away an average of 1.7 qualified students.

This produces an estimate of 13,511 qualified students turned away in radiography, 413 turned away by therapy programs, 256 turned away by nuclear medicine programs, 7,474 turned away by sonography programs and 38 turned away by MRI programs.

Near-term Changes

Most of the programs surveyed plan to maintain their current levels of enrollment; 66.3% of programs across these disciplines plan to keep their enrollment at the same level; 33.0% of programs plan to increase enrollment, and the remaining 0.7% plan to decrease their enrollment.

The majority of programs across disciplines (83.3%) will definitely continue to operate; 15.7% will most likely continue operations, and 1.0% will most likely close. No responding programs have a definite plan to close.

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

Student Attrition

Asked about the attrition rate¹ of their program, respondents indicated that, on average, 14.0% of their students across disciplines failed to complete the program for the cohort that graduated in 2022.

Enrollment Analysis²

Based on the survey responses, radiography programs enrolled an average of 24.1 students in 2023. This represents an increase of 1.8 students per program from 2022, when each radiography program enrolled an average of 22.3 students. This produces an overall estimate of 17,679 students entering ARRT-approved radiography programs in 2023, up from 16,235 in 2022.

On average, radiation therapy programs enrolled 13.4 students in 2023 compared to 12.2 students in 2022, an increase of 1.2 students per program. This produces an overall estimate of 1,302 students enrolling in ARRT-approved radiation therapy programs in 2023, up from 1,208 in 2022.

On average, NMT programs enrolled 9.6 students in 2023. This represents an increase of 0.7 students per program from 2022 when, on average, 8.9 students enrolled in each NMT program. Overall, this produces an estimate of 903 students enrolling in NMT programs in 2023, up from 837 in 2022.

Sonography programs enrolled an average of 14.0 students in 2023, down 2.5 students from 16.5 students per program in 2022. This produces an estimate of 3,144 students enrolling in ARRT-recognized sonography programs, down from 3,531 in 2022.

MRI programs enrolled an average of 9.3 students in 2023, down from 11.8 in 2022, a drop of 2.5 students per program. This produces an estimate of 555 students enrolled in all ARRT-recognized MRI programs in 2023, down from 720 in 2022.

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

² See tables in the body of the report for statistical testing results.

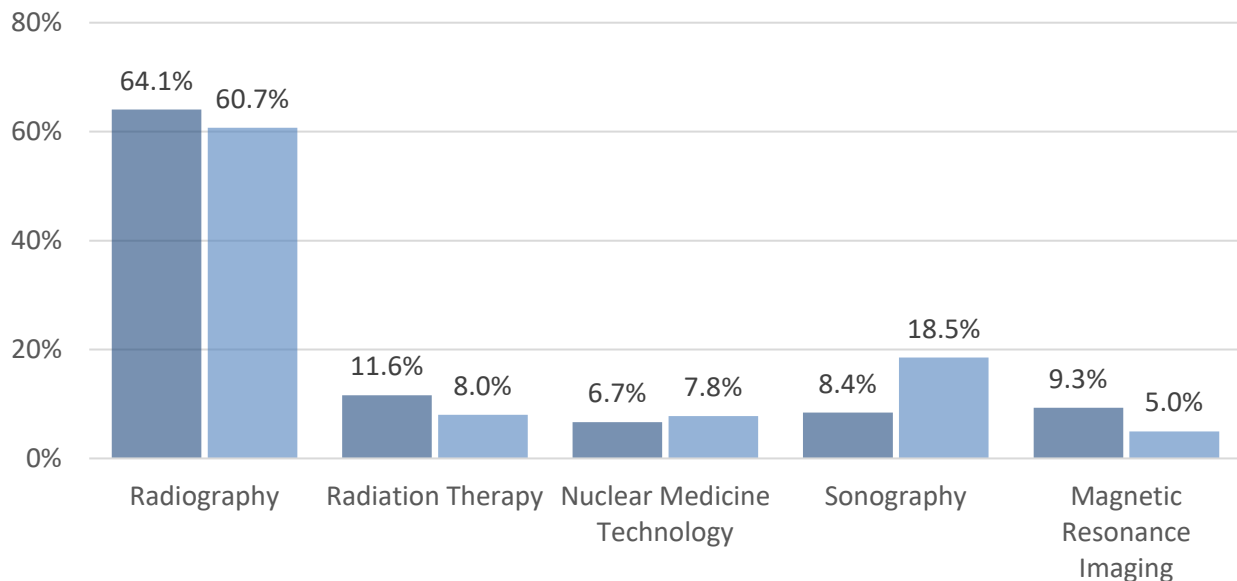
Demographics

Indicate your program type.

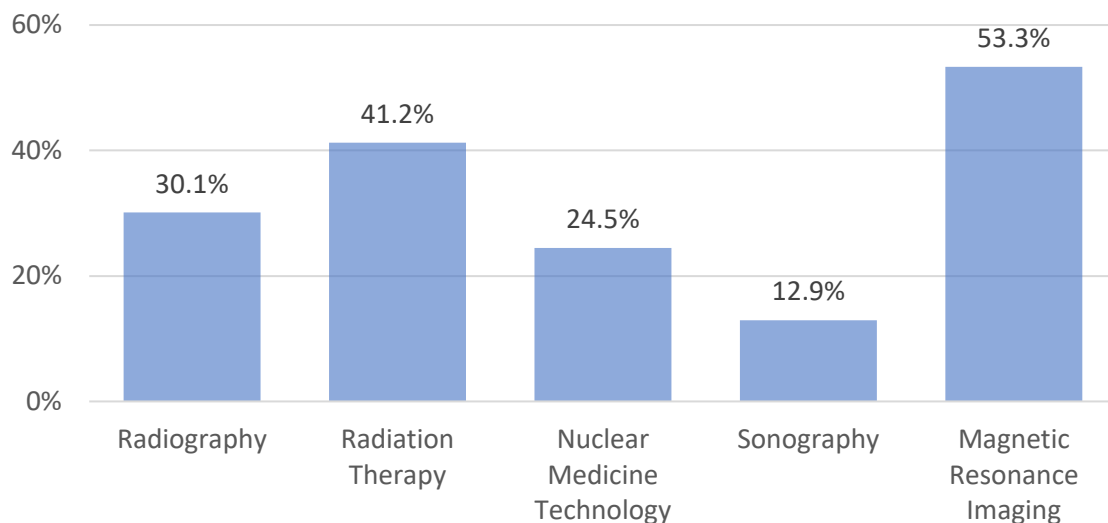
	Sample n	Sample %	Population N	Population %	Sample Return as Percent of Population
Radiography	221	64.1%	734	60.7%	30.1%
Radiation Therapy	40	11.6%	97	8.0%	41.2%
Nuclear Medicine Technology	23	6.7%	94	7.8%	24.5%
Sonography	29	8.4%	224	18.5%	12.9%
Magnetic Resonance Imaging	32	9.3%	60	5.0%	53.3%
Total	345	100.0%	1,209	100.0%	28.5%

Note. See “Representation and Group Comparisons” in the executive summary for further information about the population and sample proportions.

Indicate your program type.



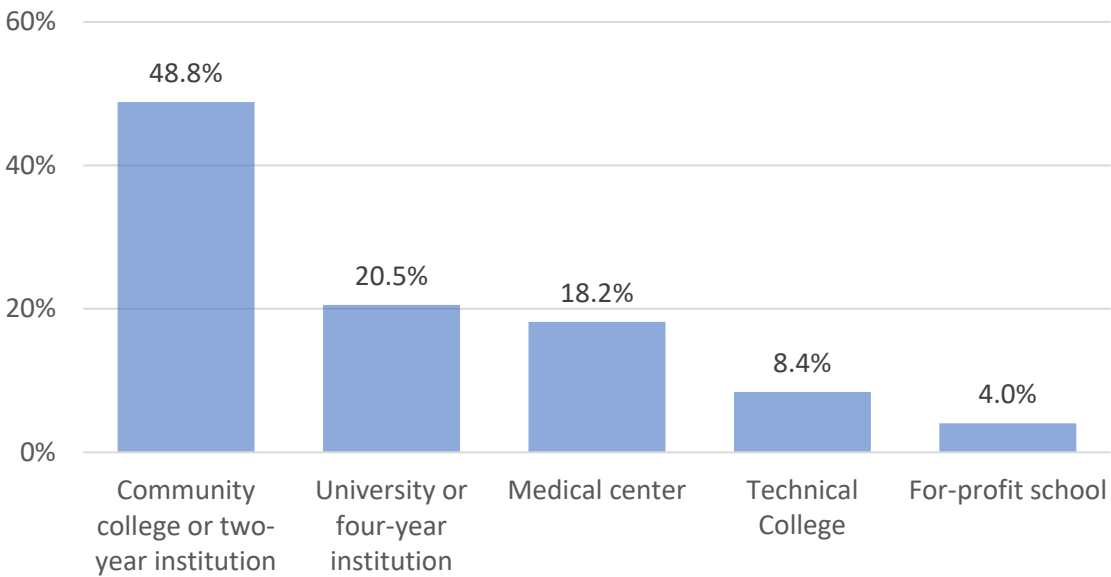
Sample Return as Percent of Population



What is your primary place of employment?

	N	Valid Percent
Community college or two-year institution	145	48.8%
University or four-year institution	61	20.5%
Medical center	54	18.2%
Technical college	25	8.4%
For-profit school	12	4.0%
Total	297	100.0%

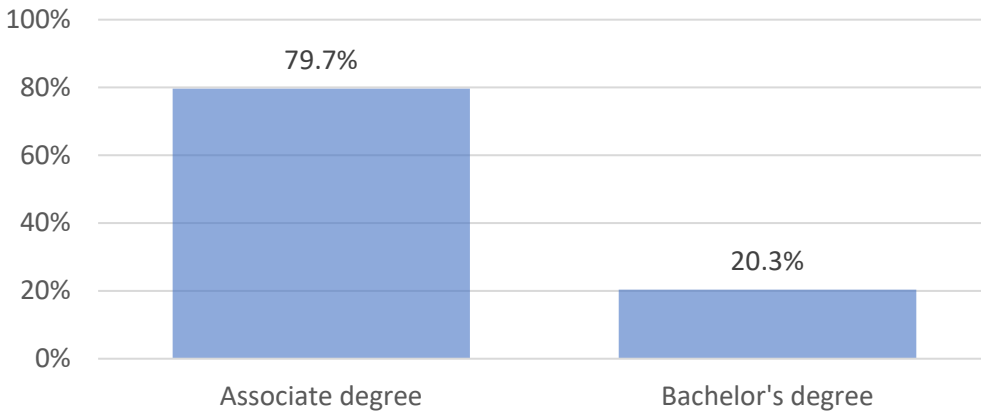
What is your primary place of employment?



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

	N	Valid Percent
Associate degree	239	79.7%
Bachelor's degree	61	20.3%
Total	300	100.0%

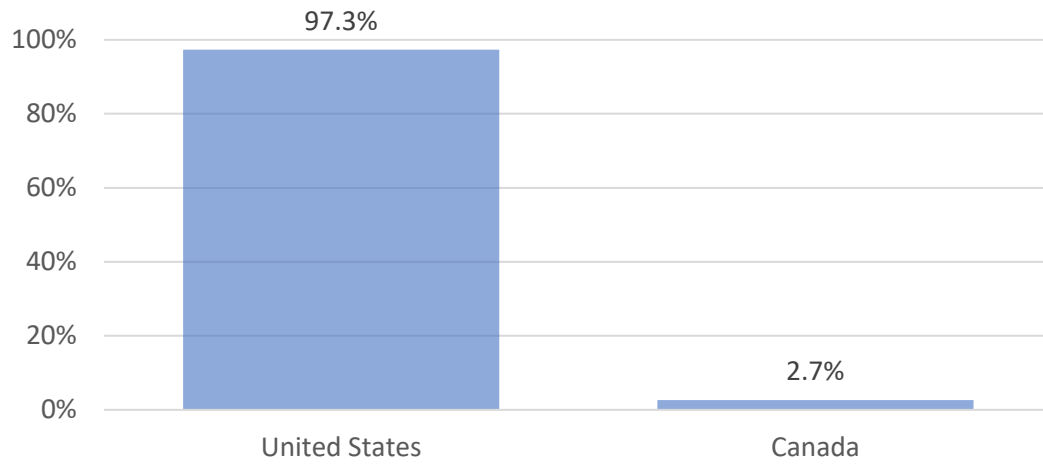
What is the terminal degree earned by the graduates in your program?



In what country is your program located?

	N	Valid Percent
United States	292	97.3%
Canada	8	2.7%
Total	300	100.0%

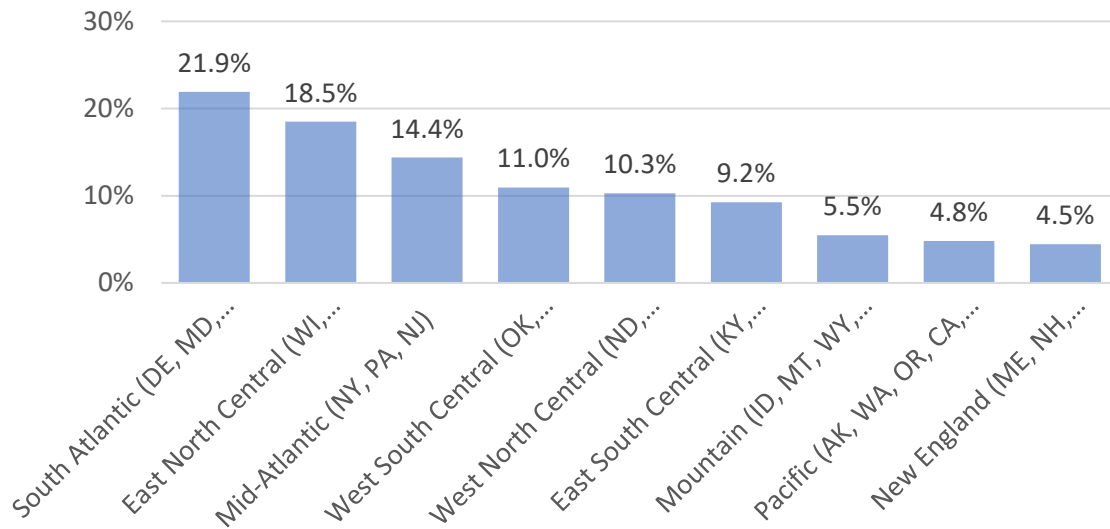
In what country is your program located?



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

	N	Valid Percent
South Atlantic (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	64	21.9%
East North Central (WI, MI, IL, IN, OH)	54	18.5%
Mid-Atlantic (NY, PA, NJ)	42	14.4%
West South Central (OK, TX, AR, LA)	32	11.0%
West North Central (ND, SD, NE, KS, MN, IA, MO)	30	10.3%
East South Central (KY, TN, MS, AL)	27	9.2%
Mountain (ID, MT, WY, NV, UT, CO, AZ, NM)	16	5.5%
Pacific (AK, WA, OR, CA, HI)	14	4.8%
New England (ME, NH, VT, MA, RI, CT)	13	4.5%
Total	292	100.0%

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

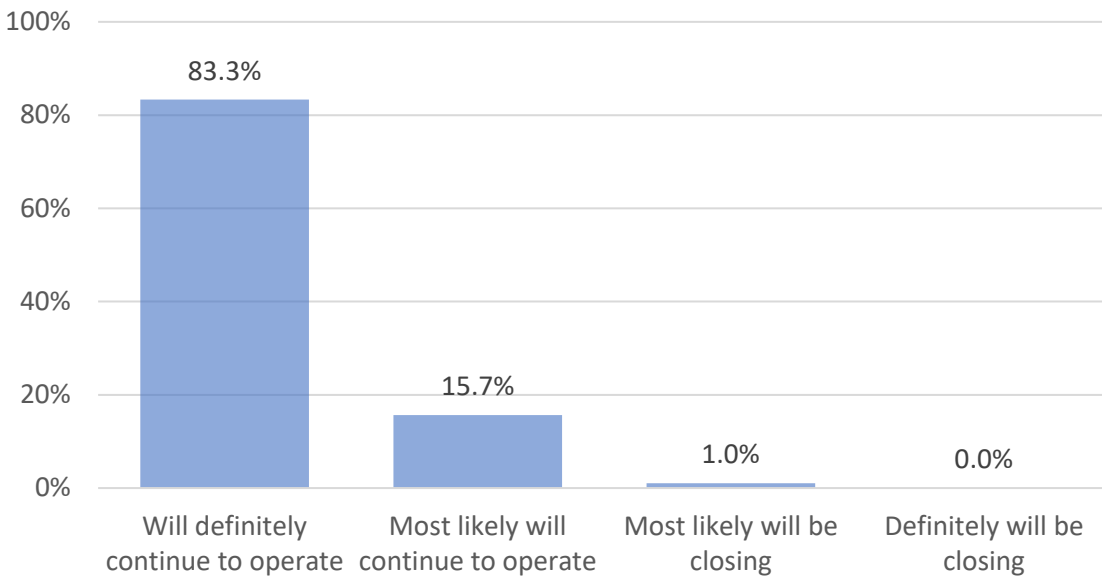


Overall Program Frequency Statistics

How viable is your program over the next few years?

	N	Valid Percent
Will definitely continue to operate	250	83.3%
Most likely will continue to operate	47	15.7%
Most likely will be closing	3	1.0%
Definitely will be closing	0	0.0%
Total	300	100.0%

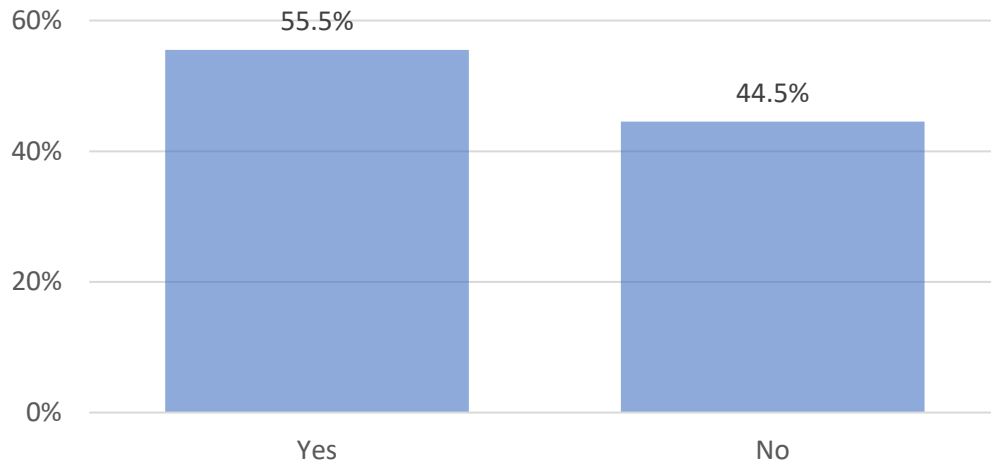
How viable is your program over the next few years?



Is your program currently at full enrollment?

	N	Valid Percent
Yes	167	55.5%
No	134	44.5%
Total	301	100.0%

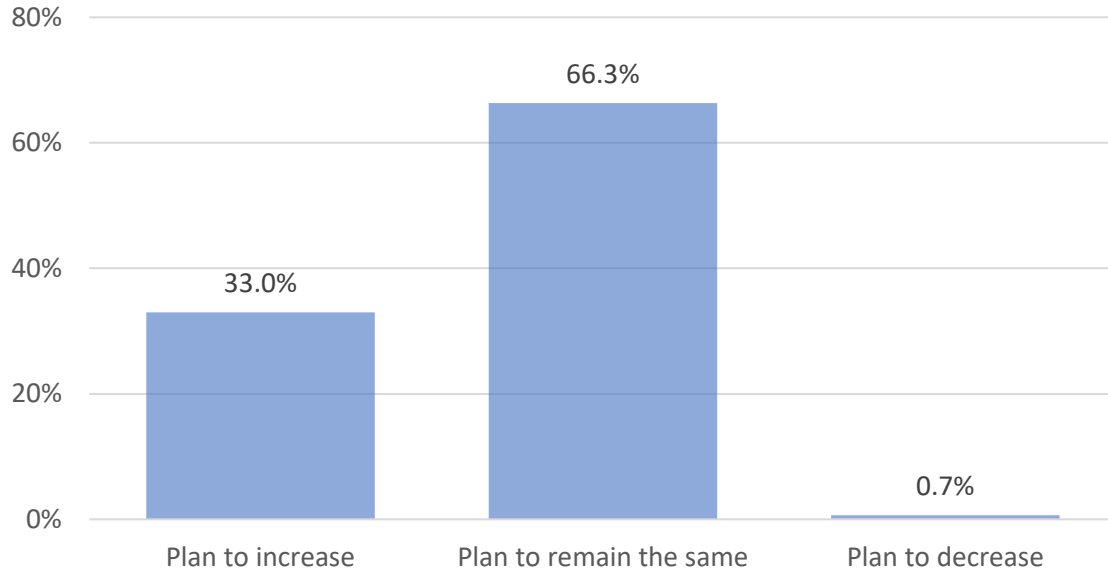
Is your program currently at full enrollment?



Do you plan any changes related to enrollment?

	N	Valid Percent
Plan to increase	99	33.0%
Plan to remain the same	199	66.3%
Plan to decrease	2	0.7%
Total	300	100.0%

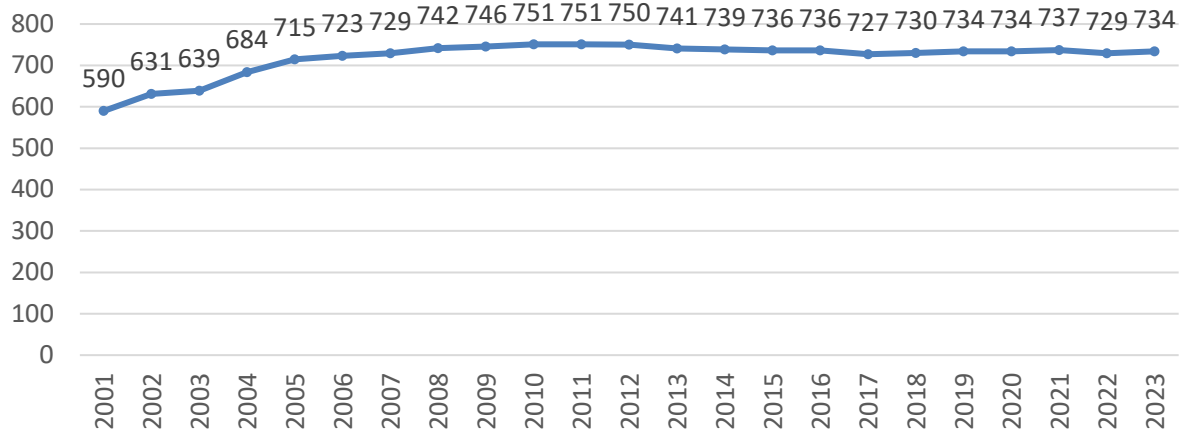
Do you plan any changes related to enrollment?



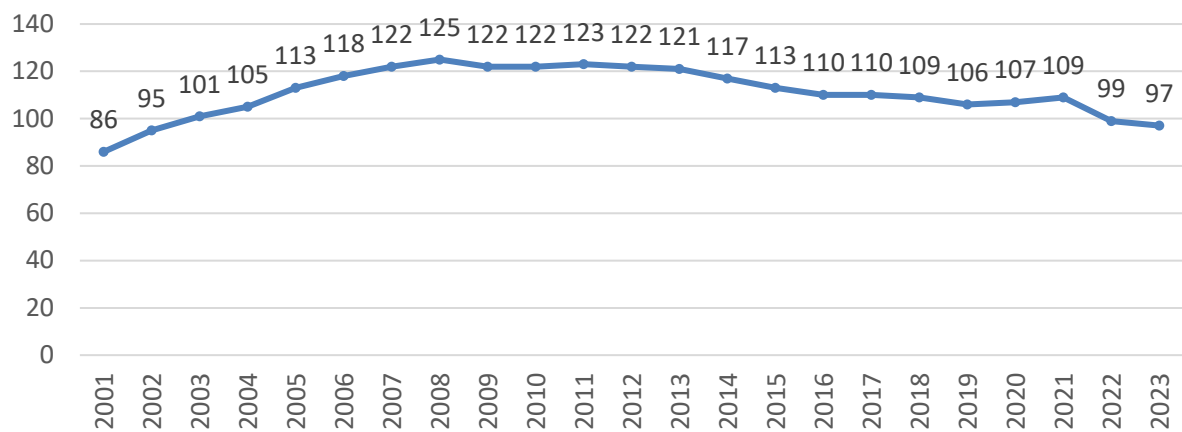
Longitudinal Enrollment Trends by Discipline

Number of ARRT-approved programs by discipline:

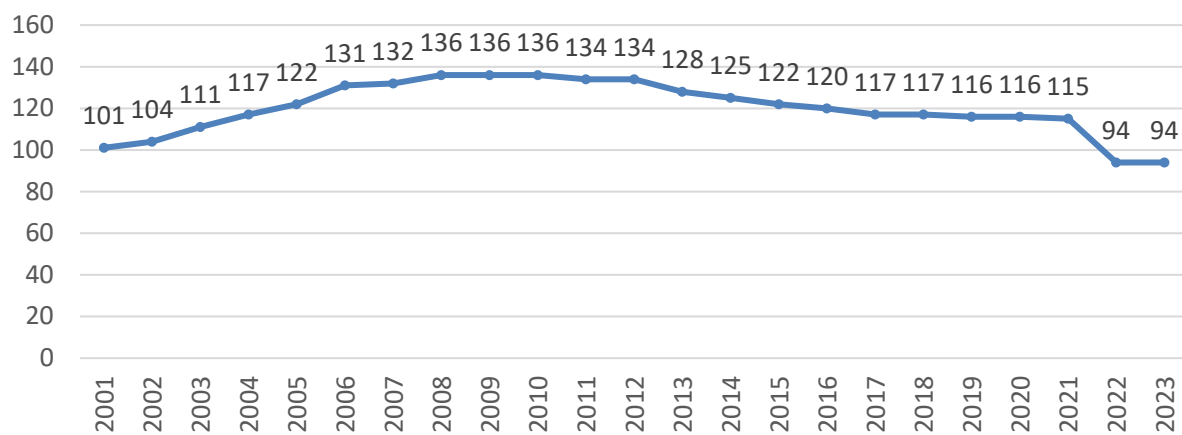
Radiography



Radiation Therapy



Nuclear Medicine Technology

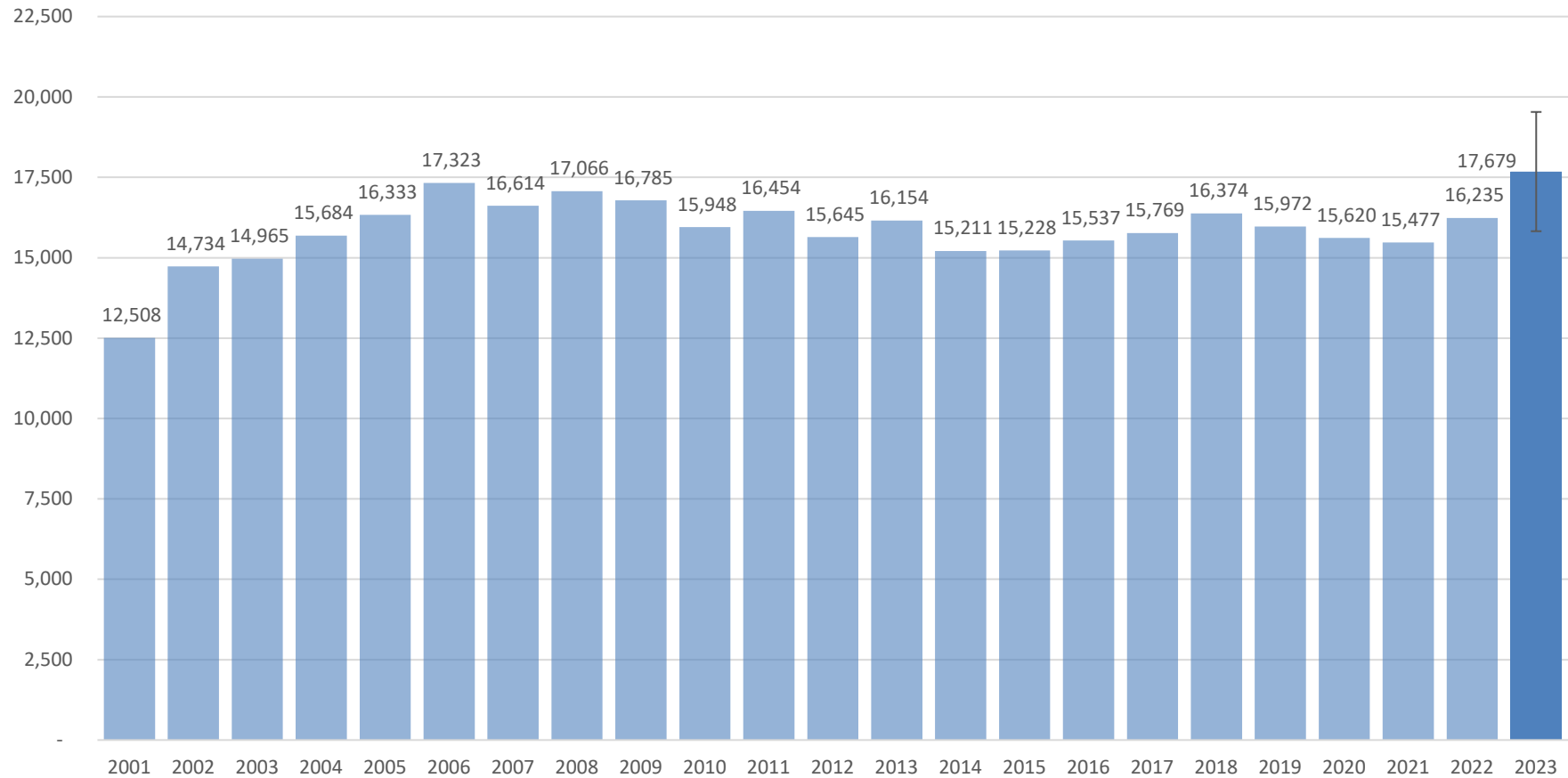


Radiography

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
2023	734	30.1%	24.1	17,679	15.0%	43.5%	6.7	2,136	32.6	13,511

Estimated total number of students entering radiography programs:

2023 Confidence Interval at the 95% Level = $\pm 1,854$



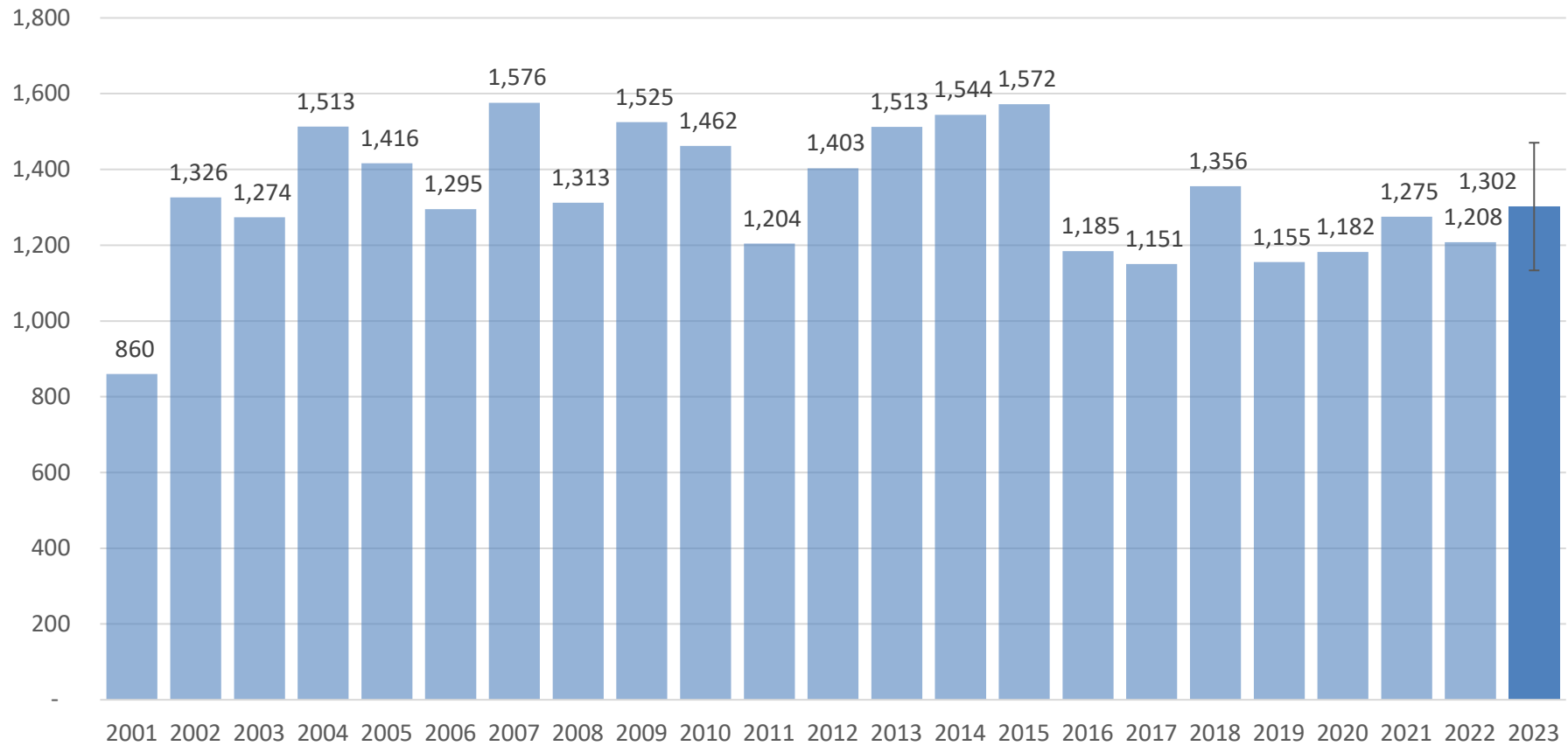
Note. The finite population correction factor was applied to the confidence interval.

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
2023	97	41.2%	13.4	1,302	7.0%	48.6%	15.3	722	8.3	413

Estimated total number of students entering radiation therapy programs:

2023 Confidence Interval at the 95% Level = ±168



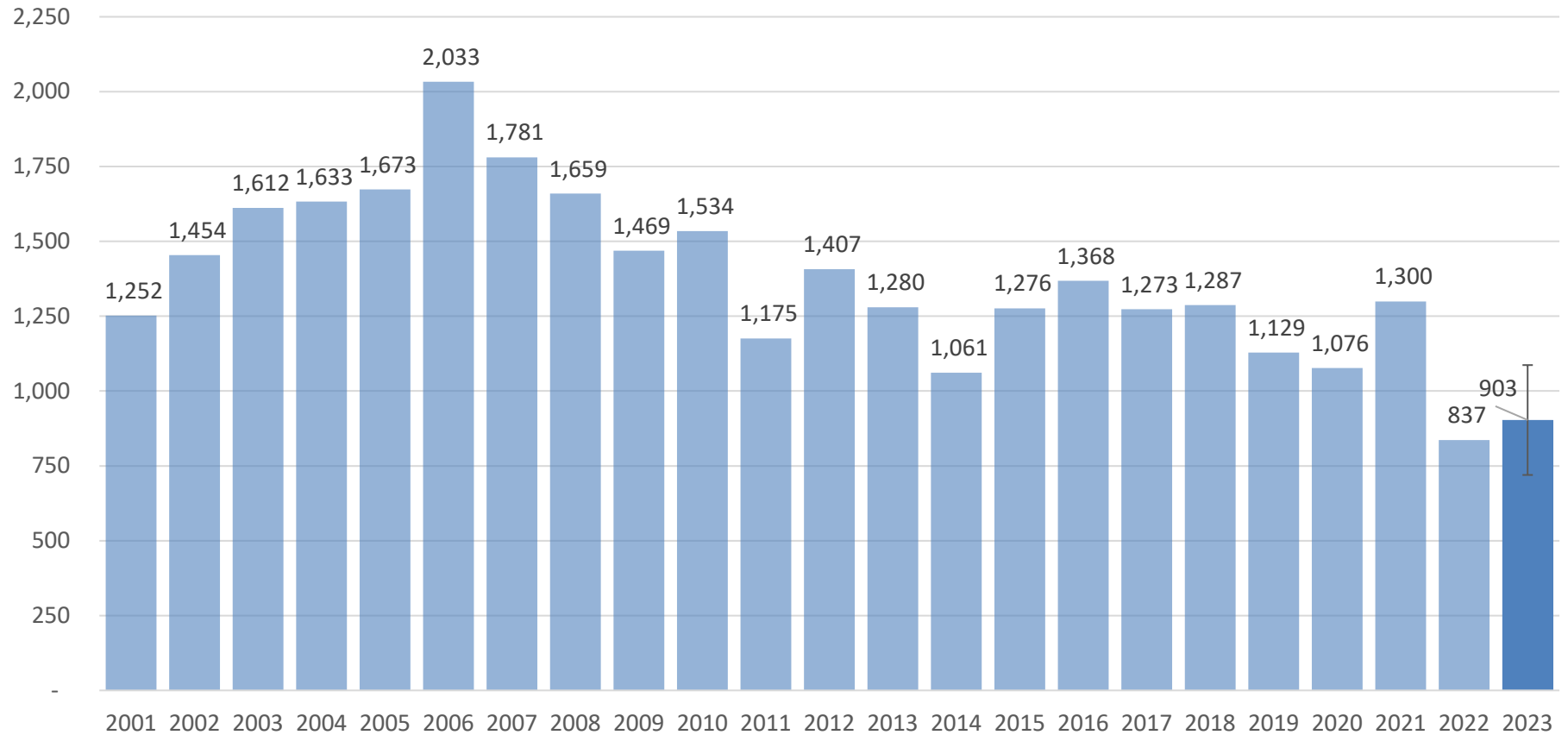
Note. The finite population correction factor was applied to the confidence interval.

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	14.9%	8.9	837	7.5%	77.8%	3.9	282	2	42
2023	94	24.5%	9.6	903	12.0%	58.8%	3.7	205	6.6	256

Estimated total number of students entering nuclear medicine technology programs:

2023 Confidence Interval at the 95% Level = ±184

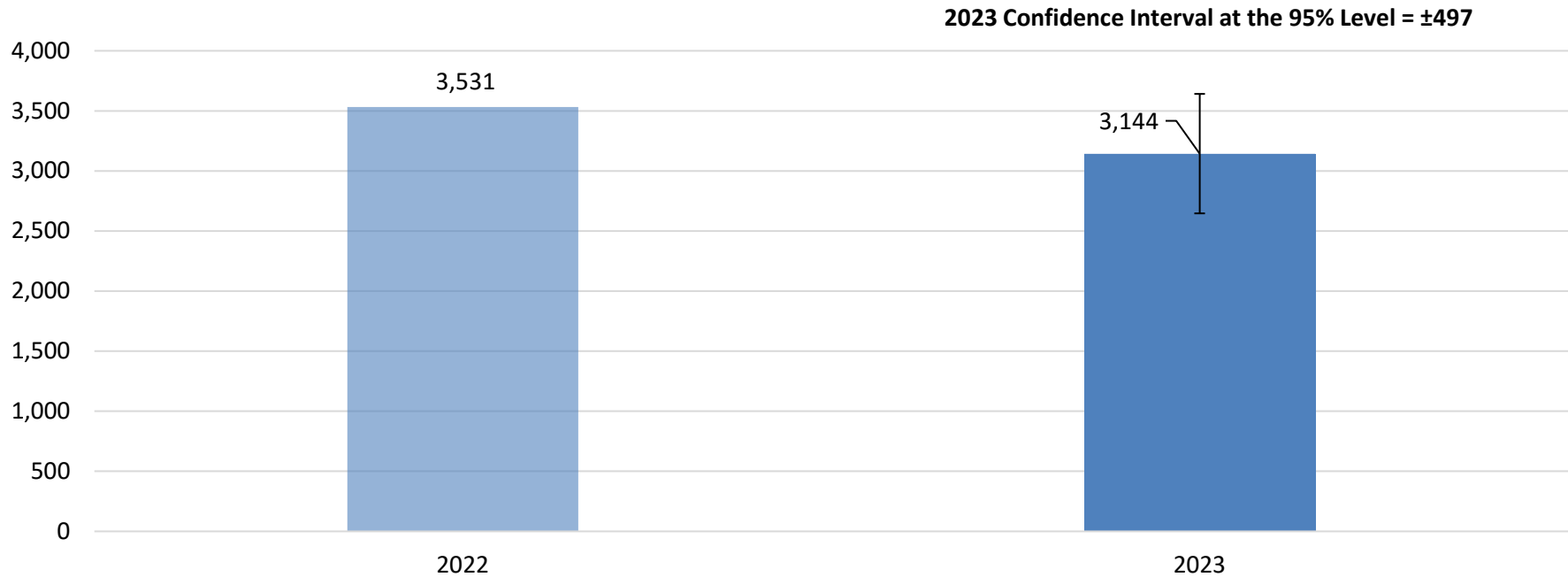


Note. The finite population correction factor was applied to the confidence interval.

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
2023	224	12.9%	14.0	3,144	14.0%	15.4%	4.0	138	39.4*	7,474

Estimated total number of students entering sonography programs:

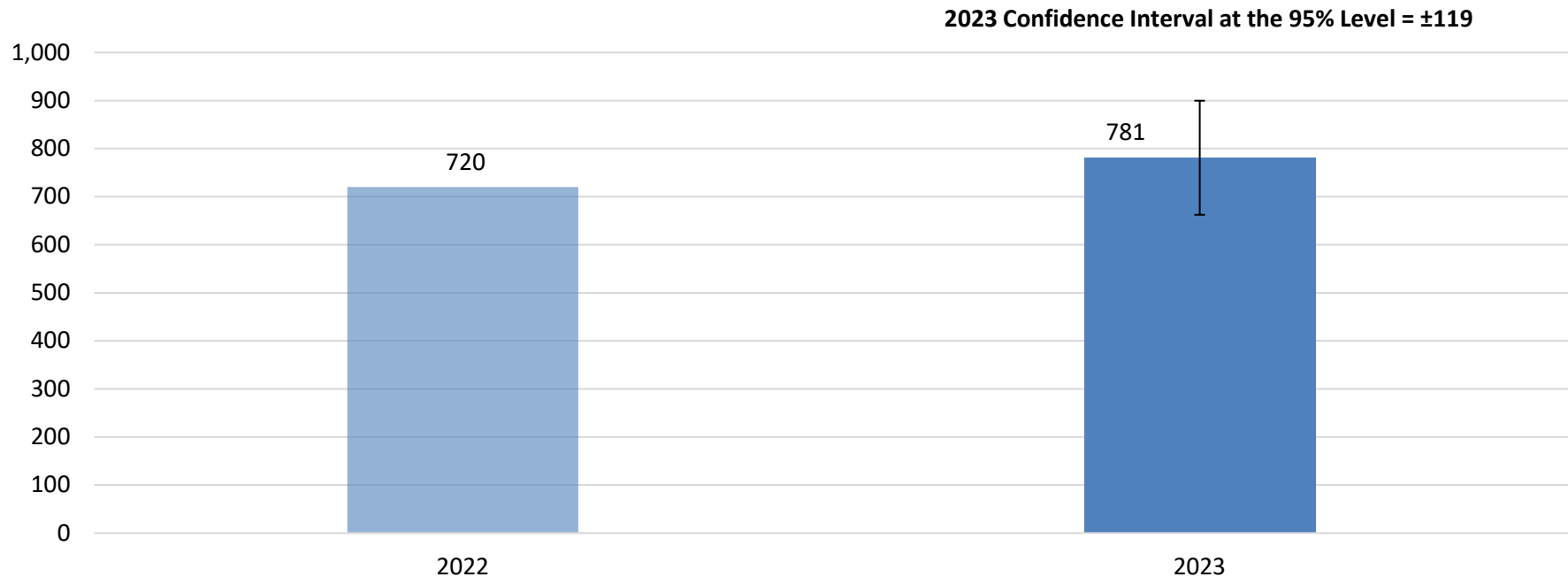


Note. The finite population correction factor was applied to the confidence interval.

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
2023	60	53.3%	9.3	555	6.0%	62.5%	4.4	165	1.7	38

Estimated total number of students entering magnetic resonance imaging programs:



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

Discipline Comparisons

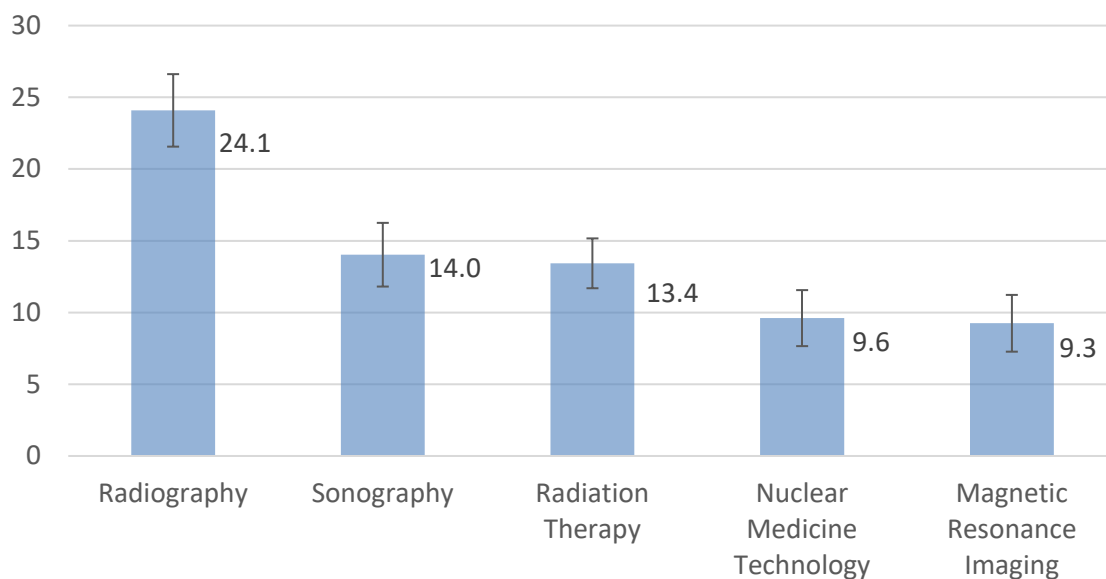
Number of students entering classroom

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
Radiography	24.1	221	22.9	21.6	26.6	20.0
Sonography	14.0	29	6.5	11.8	16.2	14.0
Radiation Therapy	13.4	40	7.3	11.7	15.2	11.0
Nuclear Medicine Technology	9.6	23	5.5	7.7	11.6	8.0
Magnetic Resonance Imaging	9.3	32	8.3	7.3	11.2	9.0

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

The Kruskal-Wallis test showed an overall statistically significant difference in the number of students entering by discipline, $\chi^2(4, n = 266) = 57.3, P < .001$. Post hoc comparisons using the Bonferroni correction indicated that Radiography was statistically different from Radiation Therapy, Nuclear Medicine Technology and Magnetic Resonance Imaging, $P < .001, \alpha = .01$.

Number of students entering classroom (Mean)



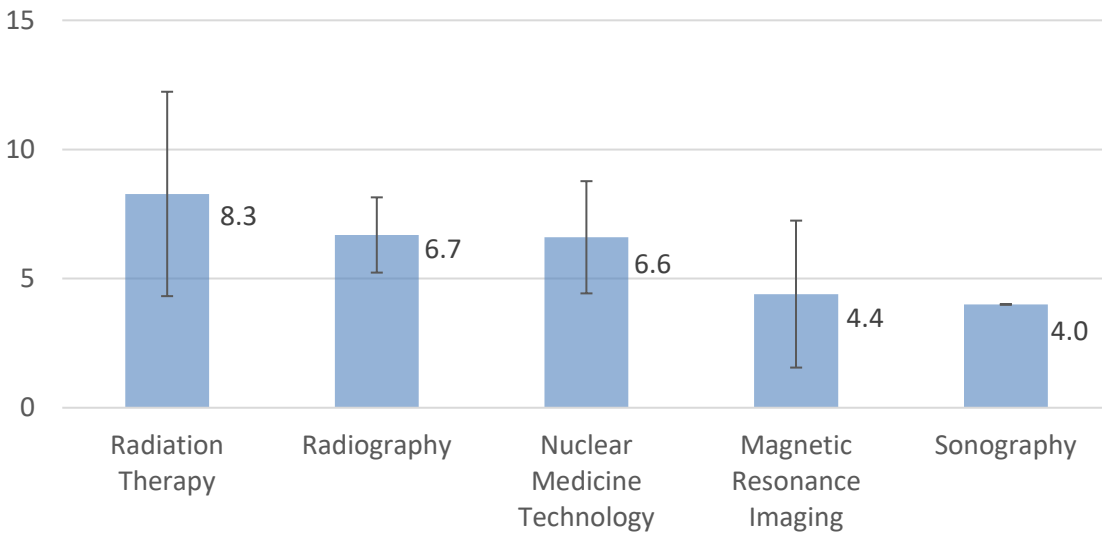
Additional students per program for those not at full capacity

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
Radiation Therapy	8.3	18	9.4	3.9	12.6	5.0
Radiography	6.7	82	7.1	5.1	8.2	5.0
Nuclear Medicine Technology	6.6	10	3.7	4.3	8.9	7.0
Magnetic Resonance Imaging	4.4	5	3.4	0.0	7.3	3.0
Sonography	4.0	1	.	.	.	4.0
Total	6.8	116	7.2	5.5	8.1	5.0

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

The Kruskal-Wallis test showed no overall statistically significant difference in the number of additional students by discipline, $\chi^2(4, n = 116) = 2.91, P = .572, \alpha = .01$.

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



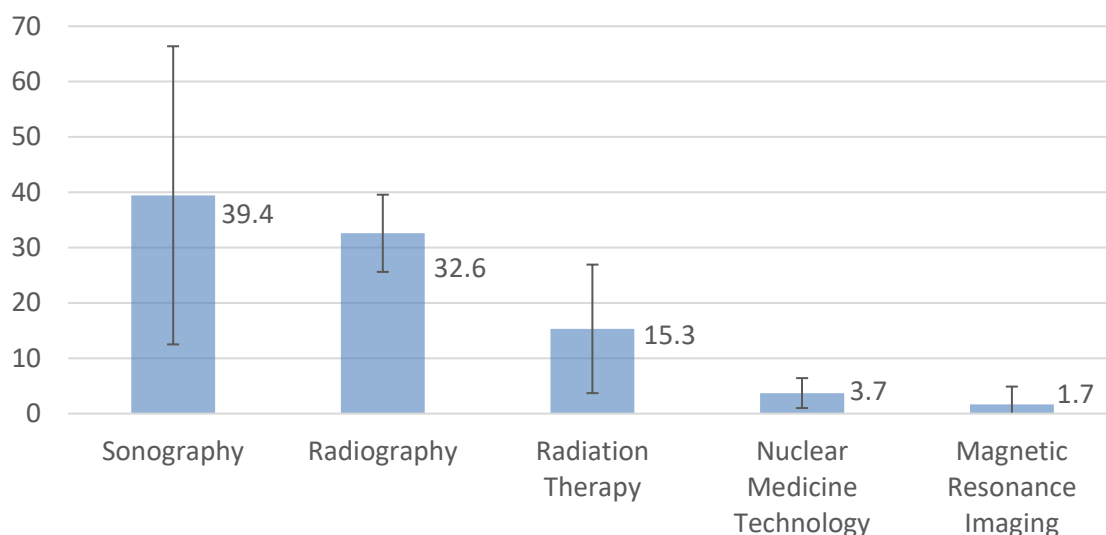
How many qualified students did you turn away this fall?

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
Sonography	39.4	9	42.0	12.0	66.9	20.0
Radiography	32.6	103	38.9	25.1	40.1	20.0
Radiation Therapy	15.3	16	25.8	0.0	28.0	5.5
Nuclear Medicine Technology	3.7	7	3.8	0.9	6.5	3.0
Magnetic Resonance Imaging	1.7	3	2.9	-1.6	4.9	0
Total	28.9	138	37.3	22.7	35.1	12.0

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

The Kruskal-Wallis test showed an overall statistically significant difference in the number of qualified students turned away by discipline, $\chi^2(4, n = 138) = 16.8, P = .002$. Post hoc comparisons using the Bonferroni correction indicated that Nuclear Medicine Technology was statistically different from Radiography and Sonography, $P \leq .008$; $\alpha = .01$, (Note. Magnetic Resonance Imaging N = 3).

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



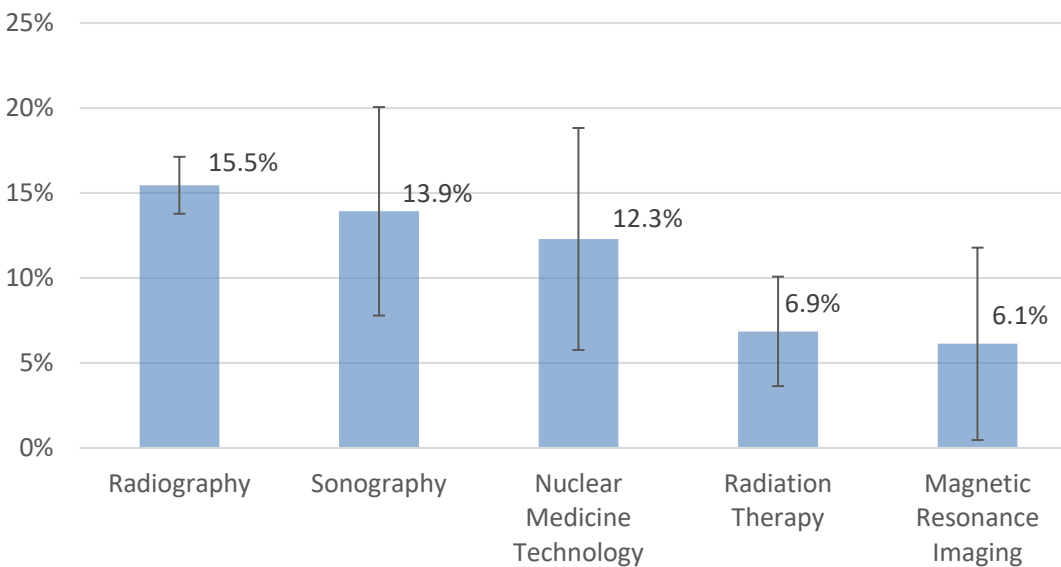
Attrition Rate

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
Radiography	15.5%	180	13.2%	13.3%	16.7%	15.0%
Sonography	13.9%	13	11.6%	7.9%	20.1%	14.0%
Nuclear Medicine Technology	12.3%	17	15.1%	5.5%	18.5%	12.0%
Radiation Therapy	6.9%	35	12.1%	3.8%	10.2%	7.0%
Magnetic Resonance Imaging	6.1%	8	8.7%	0.3%	11.7%	6.0%
Total	13.7%	253	13.3%	12.5%	15.5%	14.0%

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

The Kruskal-Wallis test showed an overall statistically significant difference in the attrition rate by discipline, $\chi^2(4, n = 266) = 22.0, P < .001$. Post hoc comparisons using the Bonferroni correction indicated that Radiography was statistically different from Radiation Therapy, $P < .001, \alpha = .01$,

Attrition Rate (Mean)

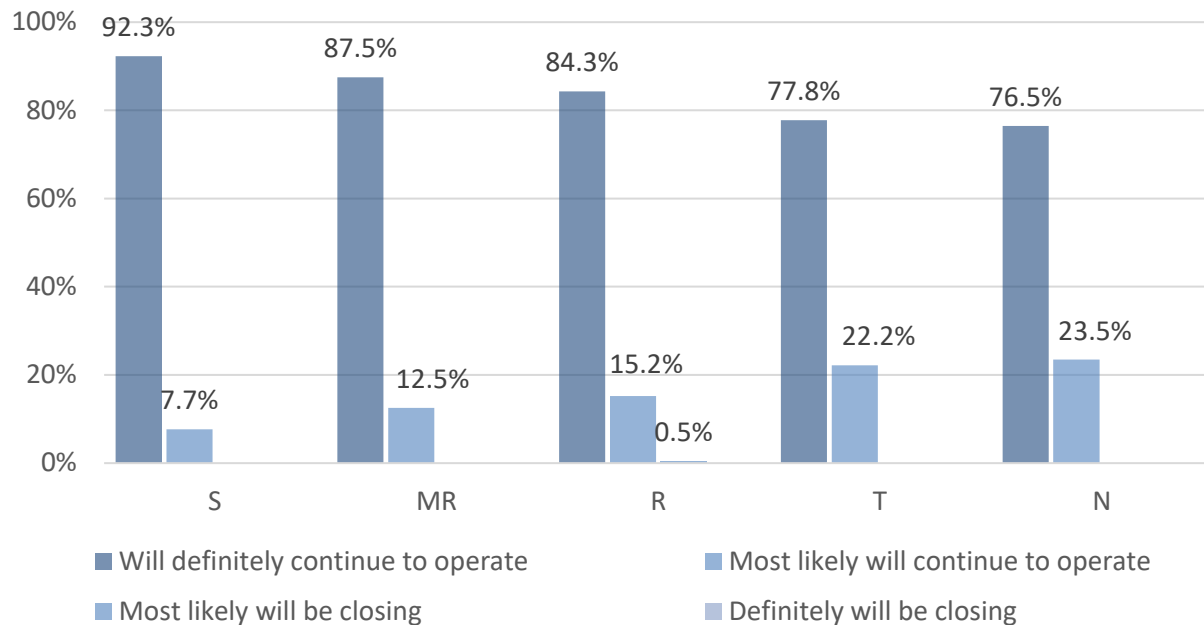


How viable is your program over the next few years?

		S	MR	R	T	N	Overall
Will definitely continue to operate	N	12	7	161	28	13	221
	%	92.3%	87.5%	84.3%	77.8%	76.5%	83.4%
Most likely will continue to operate	N	1	1	29	8	4	43
	%	7.7%	12.5%	15.2%	22.2%	23.5%	16.2%
Most likely will be closing	N	0	0	1	0	0	1
	%	0.0%	0.0%	0.5%	0.0%	0.0%	0.4%
Definitely will be closing	N	0	0	0	0	0	0
	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	N	13	8	191	36	17	265
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

A chi-square test was not computed due to multiple cell counts < 5.

How viable is your program over the next few years?

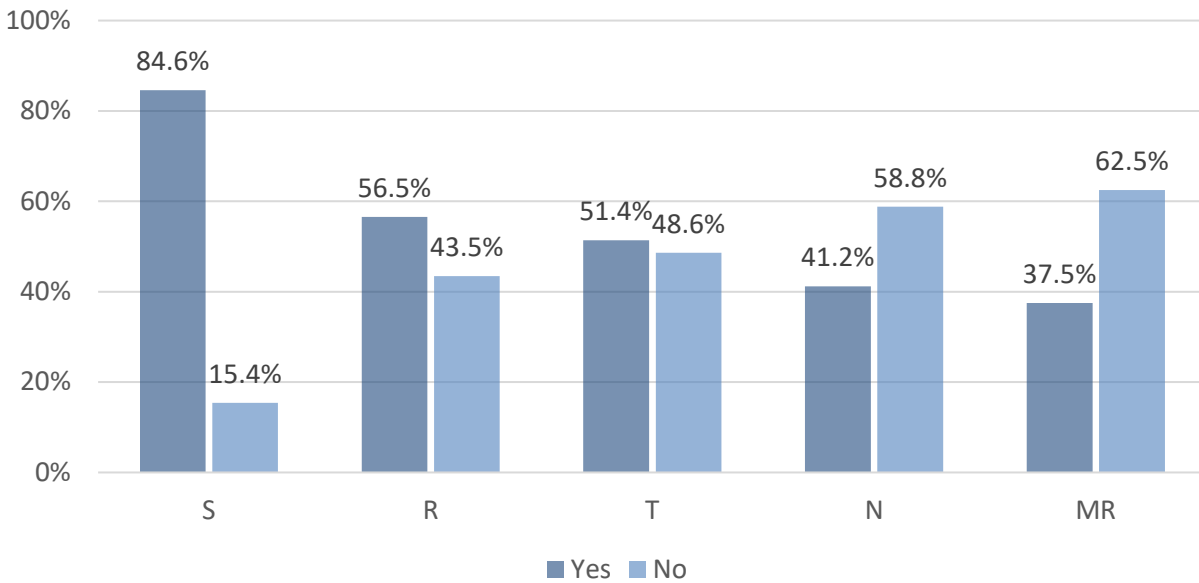


Is your program currently at full enrollment?

		S	R	T	N	MR	Overall
Yes	N	11	108	19	7	3	148
	%	84.6%	56.5%	51.4%	41.2%	37.5%	55.6%
No	N	2	83	18	10	5	118
	%	15.4%	43.5%	48.6%	58.8%	62.5%	44.4%
Total	N	13	191	37	17	8	266
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

A chi-square test showed that the proportional difference in the response distribution was not statistically significant, $\chi^2(2, n = 245) = 1.68, P = .431$, (S and MR were excluded due to cell counts < 5).

Is your program currently at full enrollment?

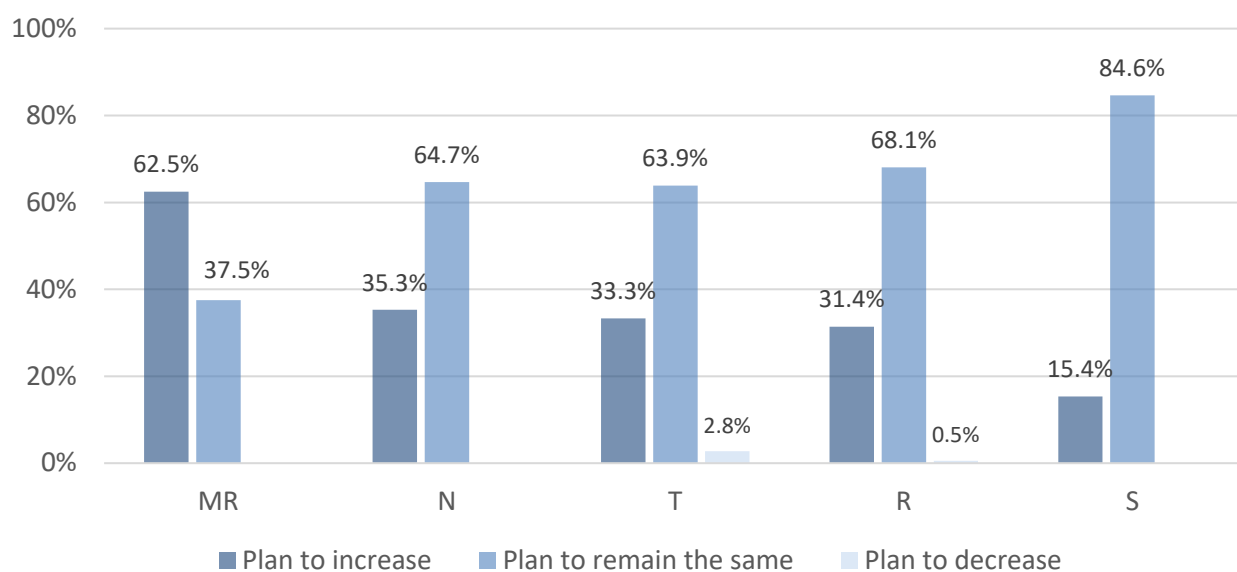


Do you plan any changes related to enrollment?

		MR	N	T	R	S	Overall
Plan to increase	N	5	6	12	60	2	85
	%	62.5%	35.3%	33.3%	31.4%	15.4%	32.1%
Plan to remain the same	N	3	11	23	130	11	178
	%	37.5%	64.7%	63.9%	68.1%	84.6%	67.2%
Plan to decrease	N	0	0	1	1	0	2
	%	0.0%	0.0%	2.8%	0.5%	0.0%	0.8%
Total	N	8	17	36	191	13	265
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

A chi-square test was not computed due to multiple cell counts < 5.

Do you plan any changes related to enrollment?



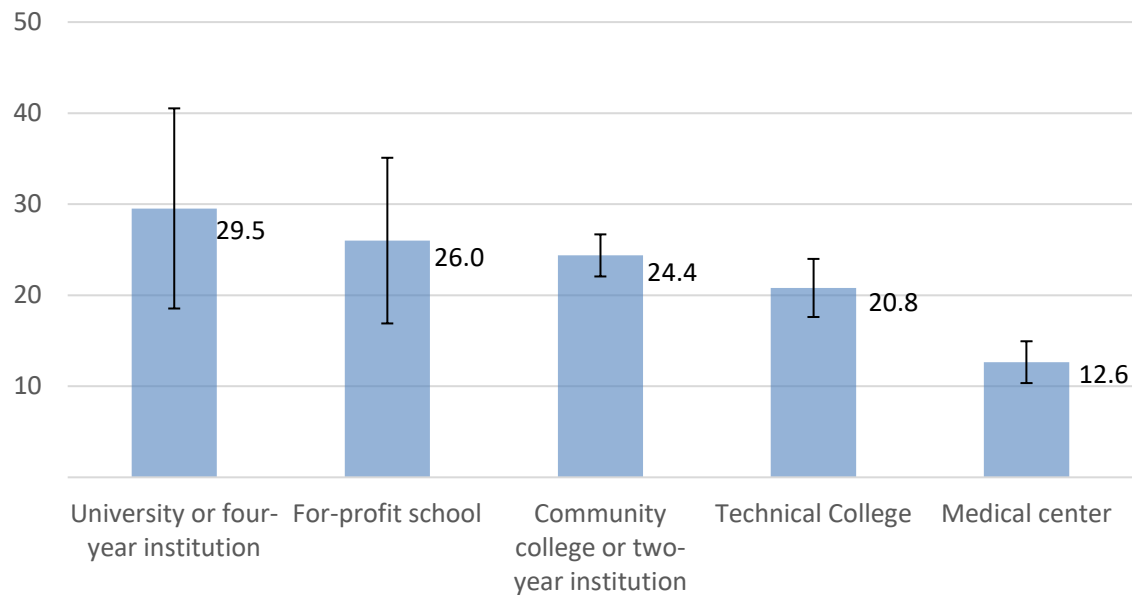
Primary Place of Employment Comparisons

Number of students entering classroom

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
University or four-year institution	29.5	60	43.4	18.5	40.5	18.0
For-profit school	26.0	11	15.4	16.9	35.1	10.0
Community college or two-year institution	24.4	142	14.1	22.1	26.7	20.5
Technical college	20.8	25	8.1	17.6	24.0	21.0
Medical center	12.6	54	8.6	10.4	14.9	10.0
Total	23.0	292	23.1	20.4	25.7	18.0

The Kruskal-Wallis test showed an overall statistically significant difference in the number of students entering by institution type, $\chi^2(4, n = 292) = 48.0, P < .001$. Post hoc comparisons using the Bonferroni correction indicated that medical center was statistically different from the other institutions, $P < .001, \alpha = .01$.

Number of students entering classroom (Mean)

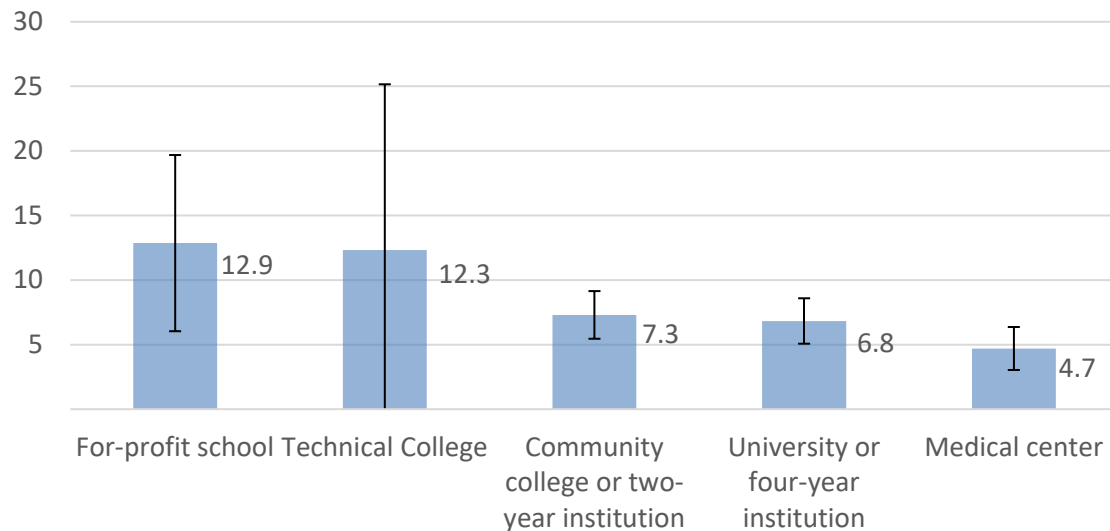


Additional students per program for those not at full capacity

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
For-profit school	12.9	7	9.2	6.0	19.7	10.0
Technical college	12.3	6	16.0	-0.5	25.2	7.0
Community college or two-year institution	7.3	55	7.0	5.5	9.1	5.0
University or four-year institution	6.8	29	4.8	5.1	8.6	6.0
Medical center	4.7	33	4.9	3.0	6.4	3.0
Total	7.1	130	7.1	5.9	8.3	5.0

The Kruskal-Wallis test showed an overall statistically significant difference in the number of additional students by institution type, $\chi^2(4, n = 130) = 11.6, P = .021$. Post hoc comparisons using the Bonferroni correction indicated that for-profit was statistically different from medical center, $P < .002, \alpha = .01$.

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

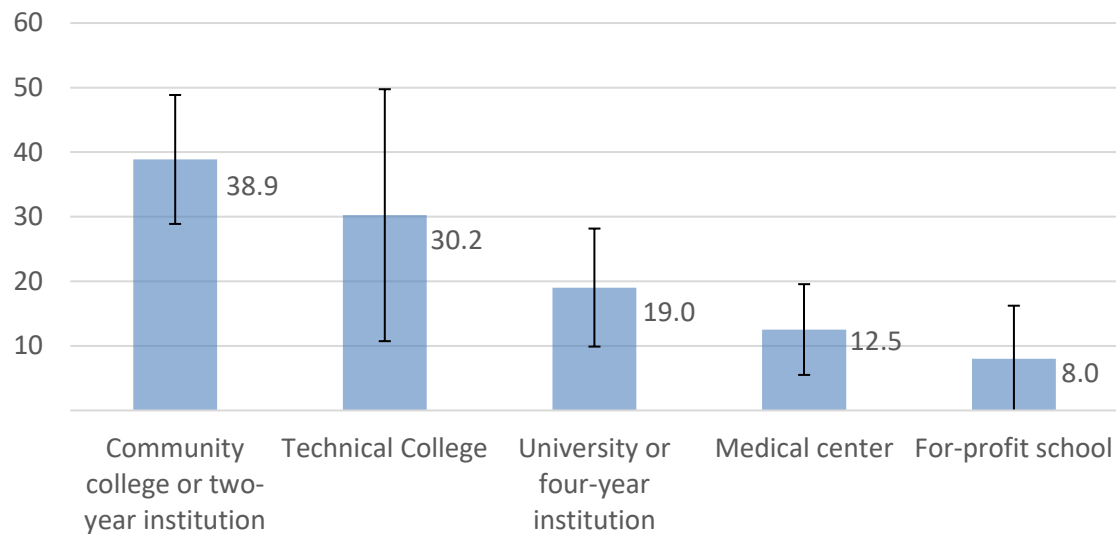


How many qualified students did you turn away this fall?

	Mean	N	SD	CI of Mean at 95% Level		Median
				Lower Bound	Upper Bound	
Community college or two-year institution	38.9	84	46.7	28.9	48.9	20.5
Technical college	30.2	17	41.0	10.7	49.7	12.0
University or four-year institution	19.0	30	25.5	9.9	28.2	9.0
Medical center	12.5	19	15.6	5.5	19.6	5.0
For-profit school	8.0	5	9.4	-0.2	16.2	4.0
Total	26.0	110	30.2	20.4	31.7	13.0

The Kruskal-Wallis test showed an overall statistically significant difference in the number of qualified students turned away by institution type, $\chi^2(4, n = 130) = 11.6, P = .021$. Post hoc comparisons using the Bonferroni correction indicated that community college was statistically different from medical center, $P < .006, \alpha = .01$, (Note. for-profit $n = 5$).

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

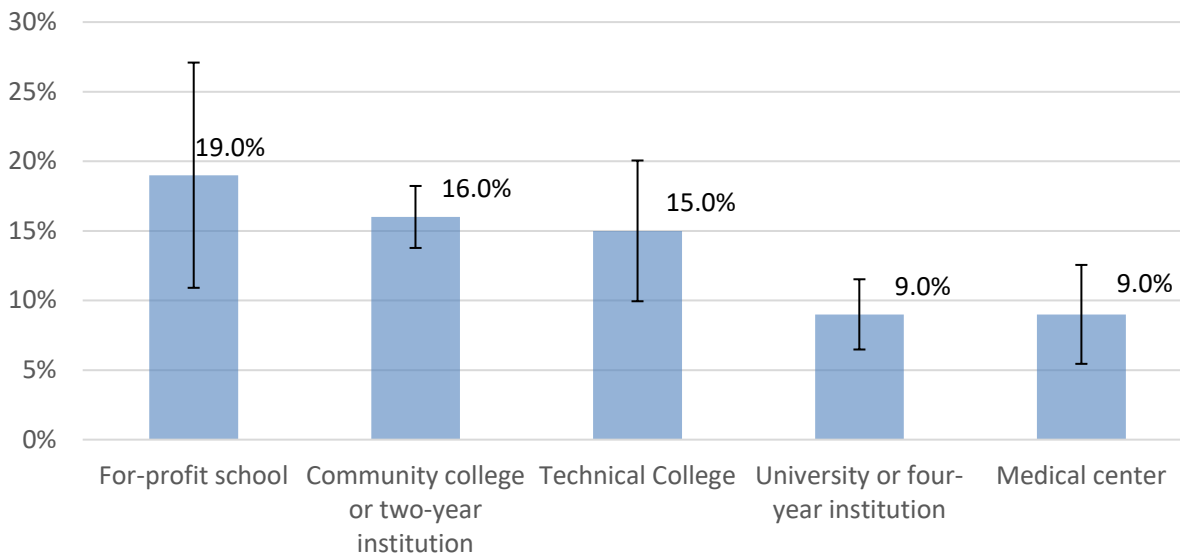


Attrition Rate

	Mean	N	SD	CI of Mean at 95% Level	
				Lower Bound	Upper Bound
For-profit school	19.0%	12	14.3%	10.9%	27.1%
Community college or two-year institution	16.0%	135	13.2%	13.8%	18.2%
Technical college	15.0%	25	12.9%	9.9%	20.1%
University or four-year institution	9.0%	58	9.8%	6.5%	11.5%
Medical center	9.0%	53	13.2%	5.4%	12.6%
Total	13.0%	283	13.0%	11.5%	14.5%

An ANOVA showed an overall statistically significant difference in the mean number of students entering by institution type, $F(4, 279) = 5.52, P < .001$. Post hoc comparisons using the Bonferroni correction indicated that the attrition rate for community college was statistically different from university and medical center, $P \leq .01, \alpha = .01$, (Note. For-profit school $N < 15$).

Attrition Rate

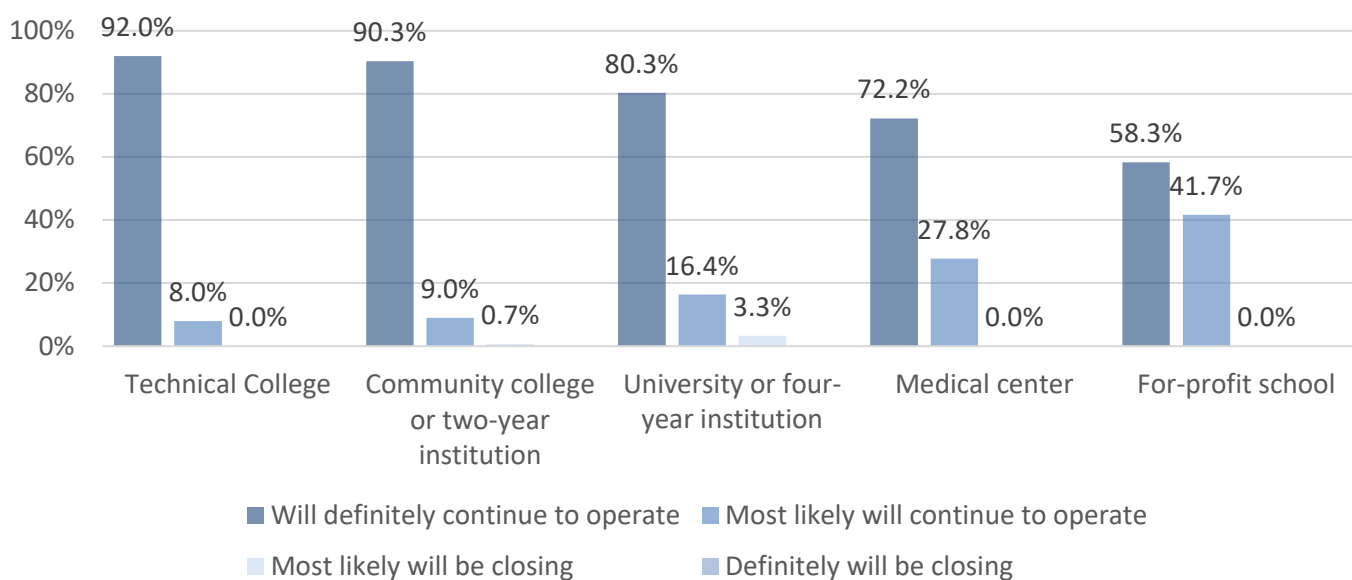


How viable is your program over the next few years?

		Technical college	Community college or two-year institution	University or four-year institution	Medical center	For-profit school	Overall
Will definitely continue to operate	N	23	131	49	39	7	249
	%	92.0%	90.3%	80.3%	72.2%	58.3%	83.8%
Most likely will continue to operate	N	2	13	10	15	5	45
	%	8.0%	9.0%	16.4%	27.8%	41.7%	15.2%
Most likely will be closing	N	0	1	2	0	0	3
	%	0.0%	0.7%	3.3%	0.0%	0.0%	1.0%
Definitely will be closing	N	0	0	0	0	0	0
	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	N	25	145	61	54	12	297
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

A chi-square test was not computed due to multiple cell counts < 5.

How viable is your program over the next few years?

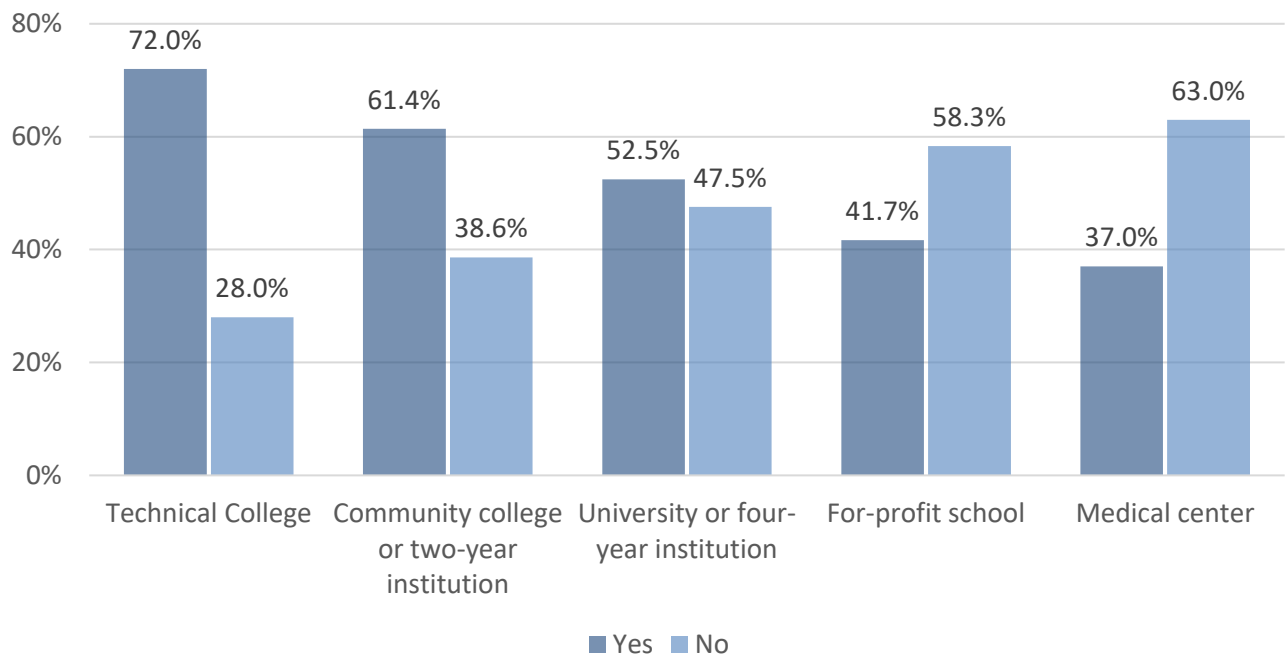


Is your program currently at full enrollment?

		Technical college	Community college or two-year institution	University or four-year institution	For-profit school	Medical center	Overall
Yes	N	18	89	32	5	20	164
	%	72.0%	61.4%	52.5%	41.7%	37.0%	55.2%
No	N	7	56	29	7	34	133
	%	28.0%	38.6%	47.5%	58.3%	63.0%	44.8%
Total	N	25	145	61	12	54	297
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

A chi-square test showed that the proportional difference in the response distribution was statistically significant, $\chi^2(4, n = 297) = 22.8, P = .010$. Post hoc comparisons using the Bonferroni correction indicated medical center was statistically significant, $P = .003, \alpha = .005$. *Note.* For-profit school $N_s < 15$).

Is your program currently at full enrollment?



Do you plan any changes related to enrollment?

		Technical college	Community college or two-year institution	University or four-year institution	Medical center	For-profit school	Overall
Plan to increase	N	5	24	20	42	7	98
	%	41.7%	39.3%	37.0%	29.0%	28.0%	33.0%
Plan to remain the same	N	7	36	34	103	17	197
	%	58.3%	59.0%	63.0%	71.0%	68.0%	66.3%
Plan to decrease	N	0	1	0	0	1	2
	%	0.0%	1.6%	0.0%	0.0%	4.0%	0.7%
Total	N	12	61	54	145	25	297
	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

A chi-square test was not computed due to multiple cell counts < 5.

Do you plan any changes related to enrollment?

