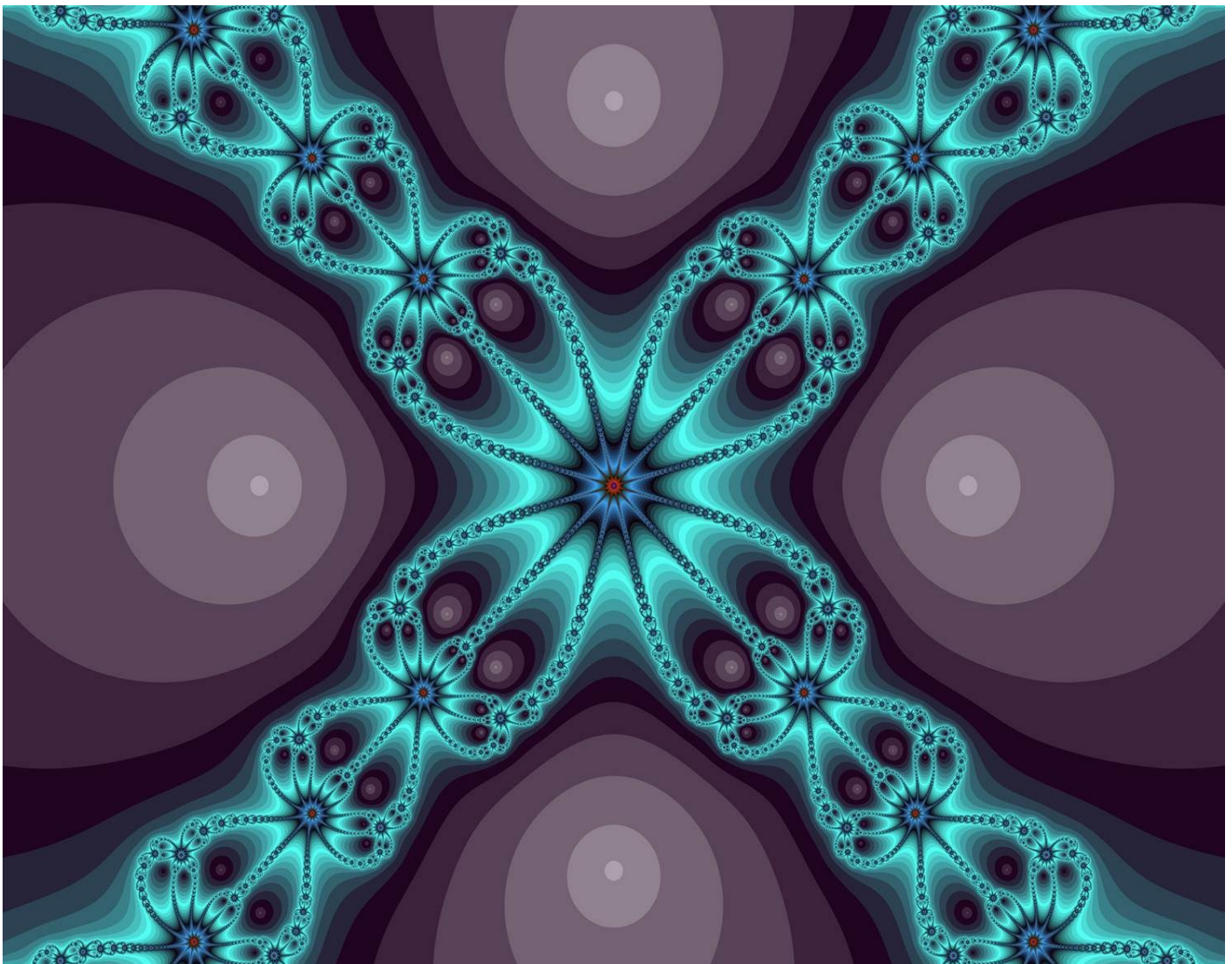


Enrollment Snapshot of Radiography, Radiation Therapy, and Nuclear Medicine Technology Programs 2011

A Nationwide Survey of Program Directors Conducted by the American Society of Radiologic Technologists
Reported December 2011



American Society of Radiologic Technologists

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Appendix A. Survey Instruments and Invitation Letter (Please contact the ASRT for a copy.)

Appendix B. Verbatim responses (Please contact the ASRT for a copy.)

Executive Summary

In mid-September 2011, an invitation to complete an online questionnaire was sent via e-mail to each of the 1,008 radiography, radiation therapy, and nuclear medicine technology programs listed by the American Registry of Radiologic Technologists (ARRT). At the close of the survey on October 31, 2011, a total of 552 responses had been received, yielding an overall response rate of 55%.

	Return	Population	Percent Sampled	Margin of Error at the 95% Level
Radiography	434	751	57.8%	±3.1%
Radiation Therapy	52	123	42.3%	±10.4%
Nuclear Medicine Technology	63	134	47.0%	±9.0%
Overall	549	1,008	54.5%	±2.8%

This report summarizes findings regarding radiologic sciences enrollment based on the responses from program directors.

Longitudinal Enrollment Trends 2001-2011

This is the 11th in a series of annual reports from the ASRT on class enrollments in educational programs for radiographers, radiation therapists, and nuclear medicine technologists. The current report includes a section that summarizes the last 11 years of enrollment trends. See pages 13-18 for a review of those findings.

Demographic Analysis

- About 41% of the programs are located in community colleges or two-year institutions, 25% are in medical centers, 22% are in universities or four-year institutions, 7% are in technical colleges, and 3% are in for-profit schools.
- Approximately 59% of program directors indicated that the terminal degree earned by graduates is an associate degree, 27% receive a certificate, and 13% receive a bachelor's degree.
- Certificate programs with an articulation agreement reported that about half (51%) award their students with an associate degree upon completion of their program, whereas 15% do not receive their degree until successful completion of the ARRT exam. In addition, 3% stated that they have no articulation agreement.
- Almost all of the programs who responded are in the United States (99%).

2011 Enrollment Trends

- The mean number of students entering programs per class is 21.9 for radiography, 9.8 for radiation therapy, and 8.8 for nuclear medicine technology.
 - This produces an overall estimate of 16,454 radiography students, 1,204 radiation therapy students, and 1,175 nuclear medicine technology students entering programs for 2011.
 - These estimates represent decreases (from 1.8% for radiation therapy and 2.3% for nuclear medicine technology programs) relative to 2010 enrollments, except for radiography, which increased 3.2%.
- Radiography had the highest attrition rate, with a mean of 25.8%, compared to 21.9% for radiation therapy and 11.3% for nuclear medicine technology.

2011 Student Capacity

- About 54% of radiography and 48% of radiation therapy program directors reported that they are at full enrollment. Only 18% of nuclear medicine technology programs reported full enrollment.
- Of those programs that are not at full enrollment, the mean number of additional students that could be accommodated per program is 7.6 for radiography, 6.1 for radiation therapy, and 7.2 for nuclear medicine technology.
 - This produces an estimate of 2,637 additional students that could be accommodated in radiography programs, 388 in radiation therapy, and 796 in nuclear medicine technology programs.
- The mean number of qualified students turned away per program was 37.1 for radiography, 14.3 for radiation therapy, and 8.0 for nuclear medicine technology.
 - This produces an estimate of 14,978 qualified students turned away in radiography, 846 in radiation therapy, and 187 in nuclear medicine.

¹American Registry of Radiologic Technologists. ARRT-recognized educational programs. www.arrt.org/index.html?content=http://www.arrt.org/nd/listOfSchools.ndm/listSchools&iframe=yes. Accessed August 2011.

Near-Term Changes

- About 10% of radiography program directors, 8% of radiation therapy program directors, and 5% of nuclear medicine technology program directors reported that they plan to decrease enrollments.
- About 4% of radiography program directors, 10% of radiation therapy program directors, and 13% of nuclear medicine technology program directors plan to increase enrollment.

Job Placement of Graduates

- About 81% of radiography students, 82% of radiation therapy students, and 58% of nuclear medicine technology students were able to find employment in their discipline within six months of graduating in 2010.
- This employment rate represents a decline from 2009 of 1.4 percentage points in radiography and 13.1 in nuclear medicine technology, with an increase of 4.5 percentage points in radiation therapy.
- When asked why students haven't been able to find employment after graduation, the most common reason among all three disciplines (52.3%) was "too many graduates in relation to the number of open positions."

Radiation Safety in the Classroom and Curriculum

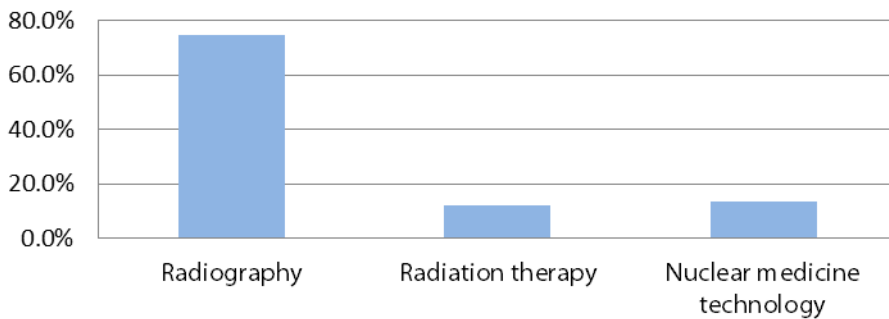
- Both DR (95.4%) and CR (87.2%) are prevalent imaging technologies used at clinical sites, with only 27.3% of sites having access to film/screen technologies.
- 89% of on-campus labs use CR technologies, with 59% using film/screen.
- Specific radiation safety education unique to the discipline is provided for 84.4% of radiography, 60.4% of fluoroscopy, and 53.1% of computed tomography.
- 65.6% of programs teach safety content as a stand-alone course.
- Radiation safety is typically taught by a radiologic technologist (94.6%).
- 65.1% of respondents knew the quarterly mrem threshold, with a mean of 253 mrems needed to warrant an investigation.
- The majority of programs (70.4%) use the program director to counsel students with high dosimeter readings, and reports are most frequently given to students on a monthly or quarterly basis (39.1% and 34.1% respectively).

Demographics

1. Indicate your program type.

	Frequency	Valid Percent	Population Distribution	Sample Return Percent of Population
Radiography	434	79.1	751	57.8
Radiation therapy	52	9.5	123	42.3
Nuclear medicine technology	63	11.5	134	47.0
Total	549	100	1008	54.5

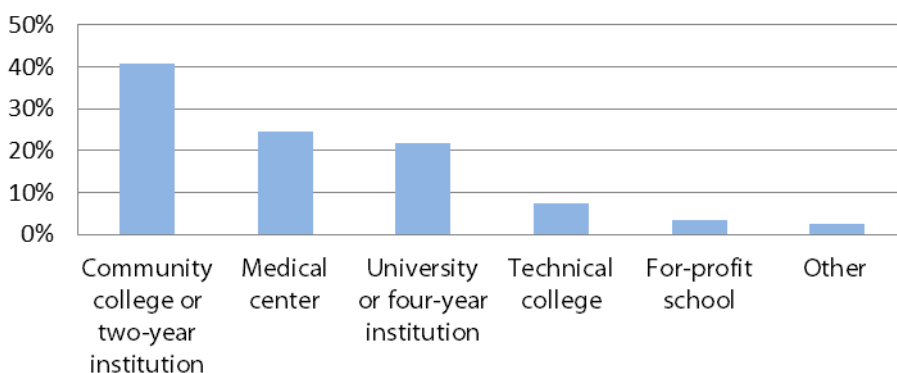
Sample return percent of population



2. What is your place of employment?

	Frequency	Valid Percent
Community college or two-year institution	224	40.6
Medical center	135	24.5
University or four-year institution	121	21.9
Technical college	41	7.4
For-profit school	18	3.3
Other	13	2.4
Total	552	100

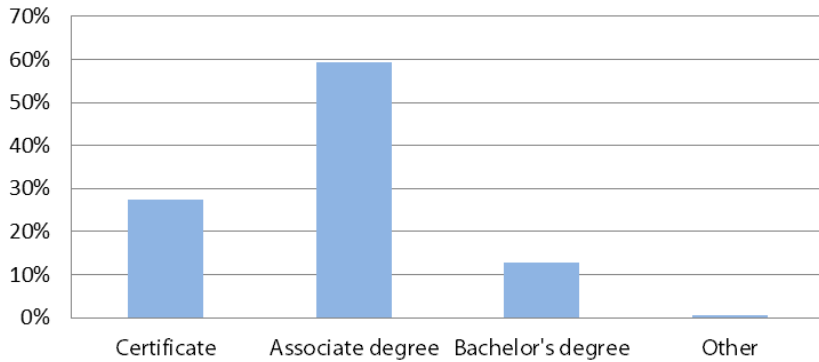
What is your primary place of employment?



3. What is the terminal degree earned by your graduates?

	Frequency	Valid Percent
Certificate	141	27.3
Associate degree	307	59.4
Bachelor's degree	66	12.8
Other	3	.6
Total	517	100

What is the terminal degree earned by your graduates?

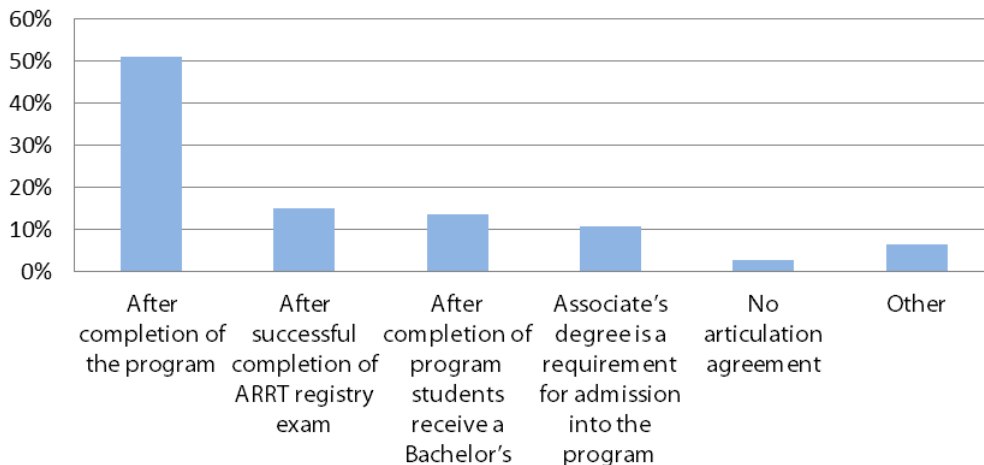


4. If yours is a certificate program with an articulation agreement, when do your graduates receive their associate degree?

	Frequency	Valid Percent
After completion of the program	71	51.1
After successful completion of ARRT registry exam	21	15.1
After completion of program students receive a bachelor's*	19	13.7
Associate degree is a requirement for admission into the program*	15	10.8
No articulation agreement*	4	2.9
Other	9	6.5
Total	139	100

*From coded responses

When do your graduates receive their associate degree?



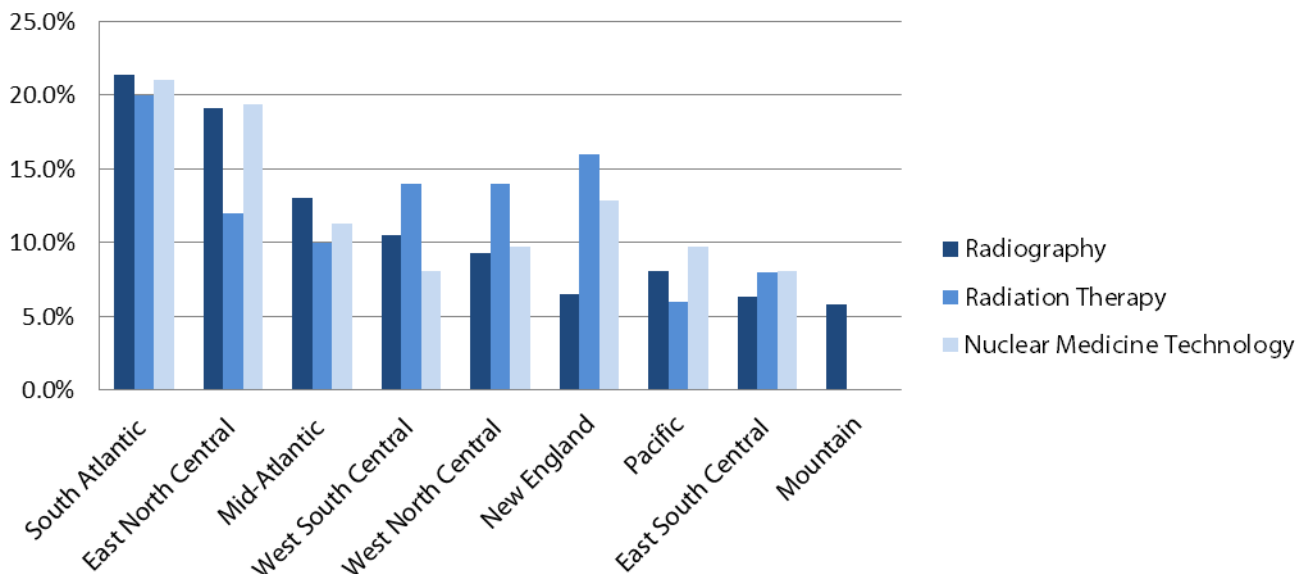
5. In what country is your program located?

	Frequency	Valid Percent
United States	548	99.3
Canada	4	.7
Total	552	100

6. In what region is your program located?

Region	Statistic	Radiography	Radiation Therapy	Nuclear Medicine Technology	Total
South Atlantic (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	Count	92	10	13	115
	%	21.4%	20.0%	21.0%	21.2%
East North Central (WI, MI, IL, IN, OH)	Count	82	6	12	100
	%	19.1%	12.0%	19.4%	18.5%
Mid-Atlantic (NY, PA, NJ)	Count	56	5	7	68
	%	13.0%	10.0%	11.3%	12.5%
West South Central (OK, TX, AR, LA)	Count	45	7	5	57
	%	10.5%	14.0%	8.1%	10.5%
West North Central (ND, SD, NE, KS, MN, IA, MO)	Count	40	7	6	53
	%	9.3%	14.0%	9.7%	9.8%
New England (ME, NH, VT, MA, RI, CT)	Count	28	8	8	44
	%	6.5%	16.0%	12.9%	8.1%
Pacific (AK, WA, OR, CA, HI)	Count	35	3	6	44
	%	8.1%	6.0%	9.7%	8.1%
East South Central (KY, TN, MS, AL)	Count	27	4	5	36
	%	6.3%	8.0%	8.1%	6.6%
Mountain (ID, MT, WY, NV, UT, CO, AZ, NM)	Count	25	0	0	25
	%	5.8%	0.0%	0.0%	4.6%
Total	Count	430	50	62	542^a
	%	100%	100%	100%	100%

In what region is your program located?



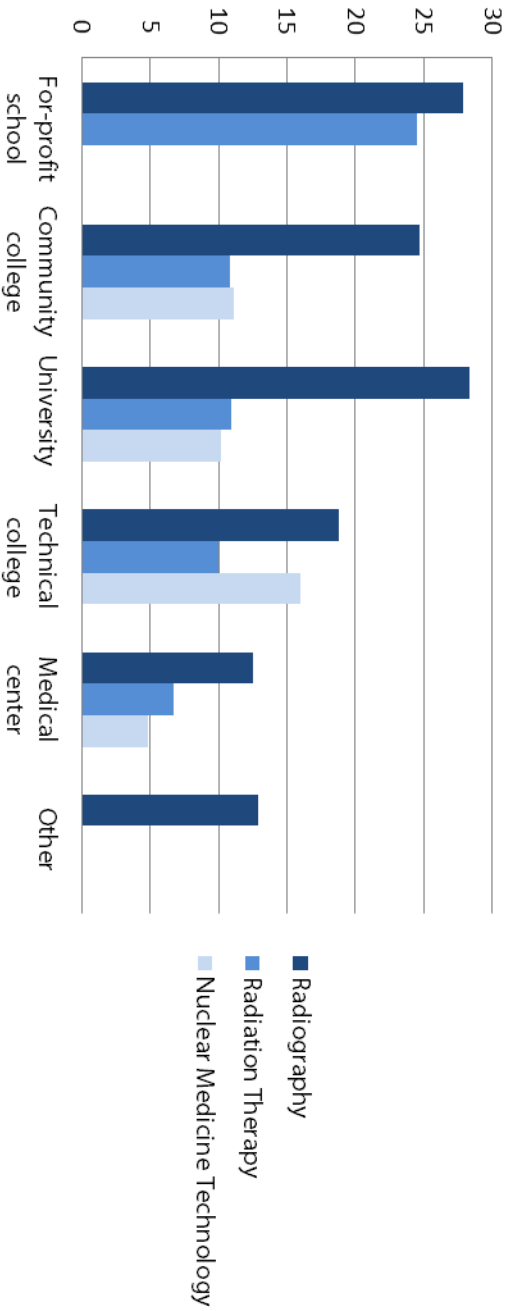
2011 Enrollment Analysis

7. How many students entered your program?

	Radiography			Radiation Therapy			Nuclear Medicine Technology			Overall		
	Mean number of students entering program per class	N	SD	Mean number of students entering program per class	N	SD	Mean number of students entering program per class	N	SD	Mean number of students entering program per class	N	SD
For-profit school	27.9	15	20.7	24.5	2	21.9	.	.	27.5	17	20.1	
Community college or two-year institution	24.7	191	11.3	10.8	13	4.6	11.1	17	5.8	22.6	224	11.7
University or four-year institution	28.3	78	15.5	10.9	16	5.3	10.2	24	9.1	22.2	118	15.8
Technical college	18.8	39	6.6	10.0	1	.	16.0	1	.	18.5	41	6.6
Medical center	12.5	95	6.8	6.7	20	4.1	4.8	20	2.9	10.5	135	6.8
Other	12.9	11	7.5	.	.	.	.	.	.	12.9	11	7.5
Total	21.9	429	12.8	9.8	52	6.5	8.8	62	7.1	19.2	546	12.9

How many students entered your program?

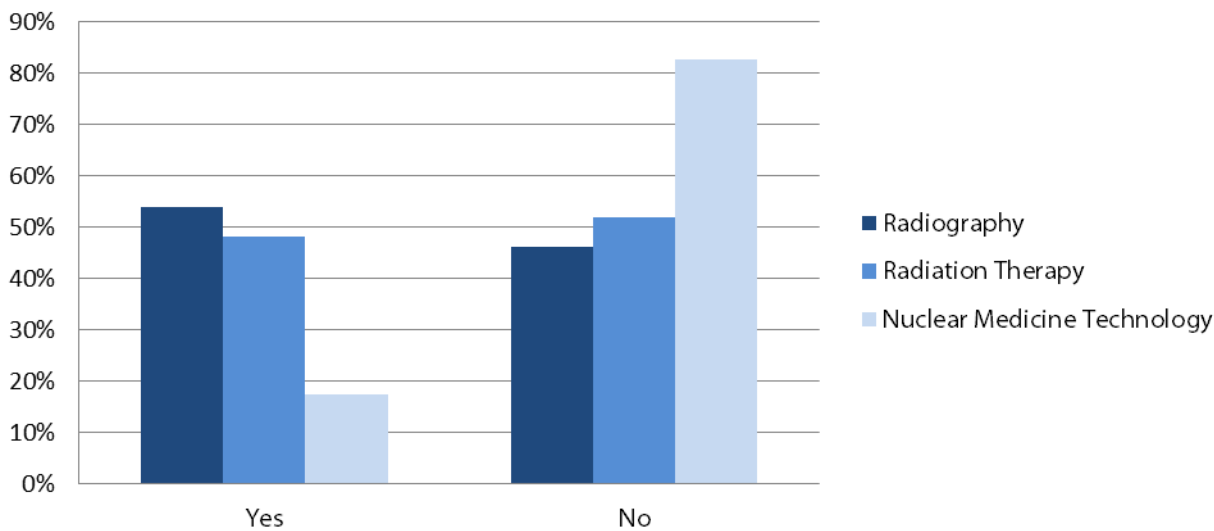
Mean number of students entering program per class



8. Is your program currently at full enrollment?

		Radiography	Radiation therapy	Nuclear medicine technology	Overall
Yes	Count	233	25	11	269
	%	53.8%	48.1%	17.5%	49.1%
No	Count	200	27	52	279
	%	46.2%	51.9%	82.5%	50.9%
Total	Count	433	52	63	548
	%	100%	100%	100%	100%

Is your program currently at full enrollment?

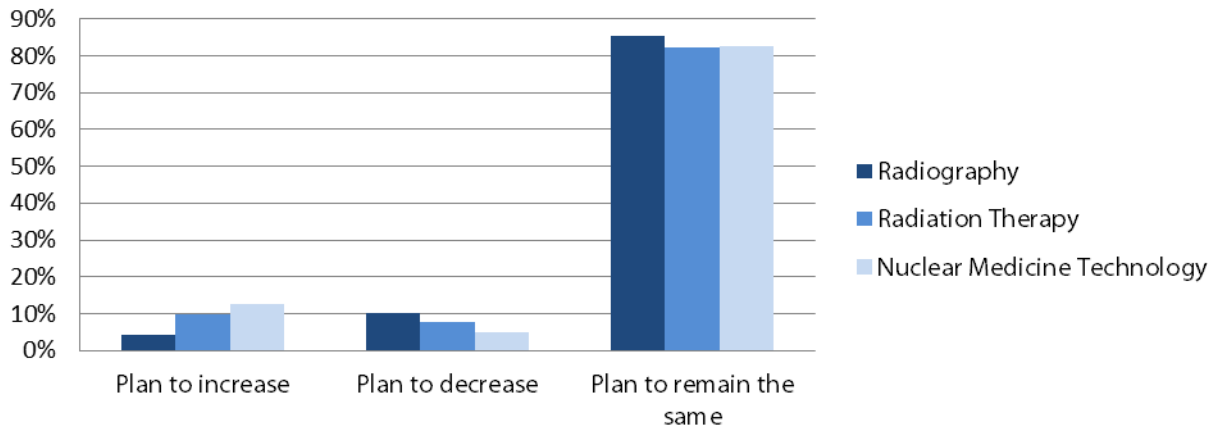


	Radiography			Radiation therapy			Nuclear medicine technology			Overall		
	Mean	N	SD	Mean	N	SD	Mean	N	SD	Mean	N	SD
9. If you are not at full enrollment, how many additional students could be accommodated by your program?	7.6	196	8.1	6.1	25	4.4	7.2	51	9.1	7.4	272	8.0
10. How many qualified students did you turn away this fall?	37.1	408	45.8	14.3	47	18.7	8.0	61	13.7	31.6	516	42.8
14. Attrition rate	25.8%	405	26.5%	21.9%	48	29.9%	11.3%	57	20.4%	24.8%	510	26.6%

11. Do you plan any changes related to enrollment?

		Radiography	Radiation therapy	Nuclear medicine technology	Overall
Plan to increase	Count	19	5	8	32
	%	4.4%	9.8%	12.7%	5.9%
Plan to decrease	Count	44	4	3	51
	%	10.2%	7.8%	4.8%	9.3%
Plan to remain the same	Count	369	42	52	463
	%	85.4%	82.4%	82.5%	84.8%
Total	Count	432	51	63	546
	%	100%	100%	100%	100%

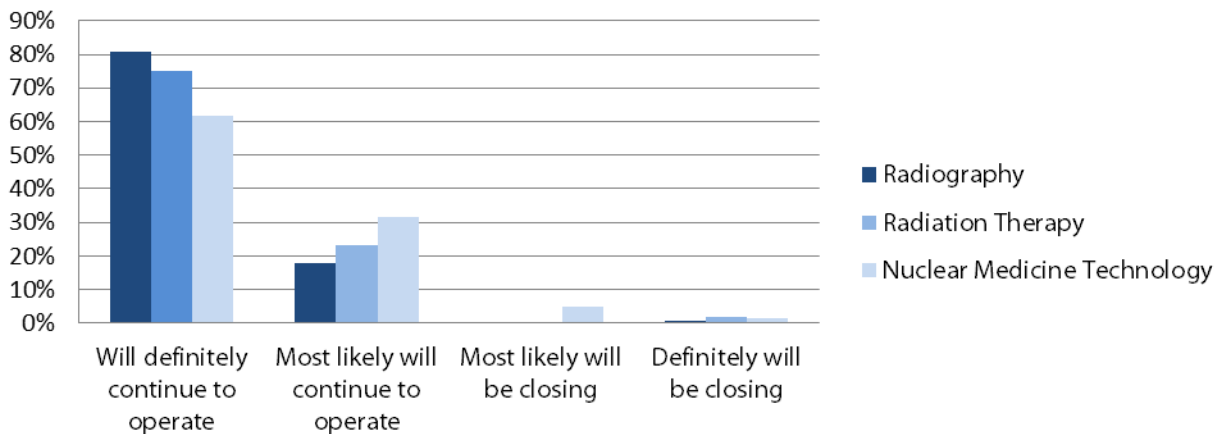
Do you plan any changes related to enrollment?



12. How viable is your program over the next few years?

		Radiography	Radiation therapy	Nuclear medicine technology	Overall
Will definitely continue to operate	Count	350	39	39	428
	%	80.6%	75.0%	61.9%	78.0%
Most likely will continue to operate	Count	78	12	20	110
	%	18.0%	23.1%	31.7%	20.0%
Most likely will be closing	Count	2	0	3	5
	%	0.5%	0%	4.8%	0.9%
Definitely will be closing	Count	4	1	1	6
	%	0.9%	1.9%	1.6%	1.1%
Total	Count	434	52	63	549
	%	100%	100%	100%	100%

How viable is your program over the next few years?



13. If your program is closing, how many more years will it continue to operate, including this academic year?

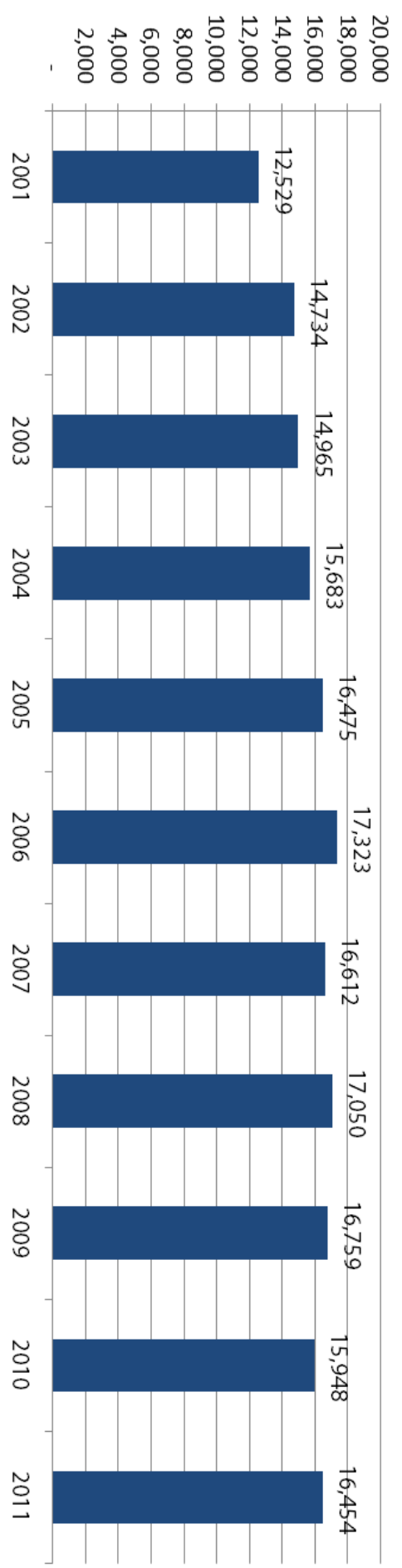
Program type	N	Mean Years	SD
Radiography	8	2.9	3.0
Radiation therapy	2	0	0.0
Nuclear medicine technology	4	1.5	1.3

Longitudinal Enrollment Trends 2001-2011

Radiography

Year	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering program	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean number of additional students that could be accommodated per program for those not at full capacity	Estimated total additional students that could be accommodated per program 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	12,529	21.6%	50.2%	.	.	.	.
2002	631	67.5%	23.4	14,734	23.6%	30.9%	8.7	1,688	31.6	13,766
2003	639	71.4%	23.4	14,965	21.6%	21.2%	5.8	741	46.8	23,550
2004	684	68.7%	22.9	15,683	20.5%	21.7%	7.5	1,106	55.1	29,531
2005	715	65.5%	22.8	16,475	18.1%	20.9%	7.4	1,104	50.9	27,131
2006	723	73.7%	24.0	17,323	18.4%	22.6%	7.0	1,142	59.2	33,148
2007	729	67.9%	22.8	16,612	17.8%	30.2%	7.1	1,558	56.8	28,556
2008	742	70.1%	23.0	17,050	21.1%	33.3%	8.4	2,073	50.4	24,914
2009	746	60.1%	22.5	16,759	20.8%	40.0%	3.7	1,088	43.4	19,386
2010	751	64.8%	21.2	15,948	23.3%	43.7%	7.6	2,490	39.1	16,528
2011	751	57.7%	21.9	16,454	25.8%	46.2%	7.6	2,637	37.1	14,978

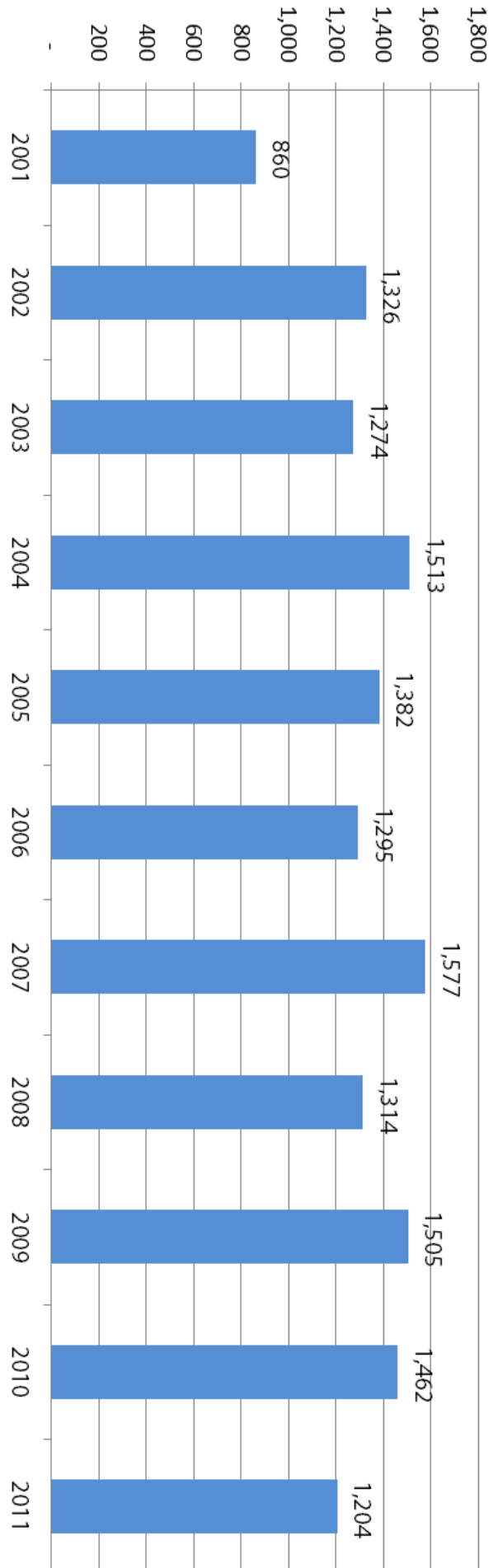
ESTIMATED TOTAL ENTERING CLASS ENROLLMENT FOR ALL RADIOGRAPHY PROGRAMS



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 number of additional students that could be accommodated per program for those not at full capacity	Estimated total additional students that could be accommodated per program for 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	59.9%	14.0	1,326	11.1%	48.0%	5.7	261	9.1	449
2003	101	57.4%	12.6	1,274	18.0%	44.6%	4.4	200	13.6	758
2004	105	55.2%	14.4	1,513	11.9%	30.5%	12.5	400	13.4	974
2005	113	56.6%	12.5	1,382	16.8%	32.1%	3.4	124	24.5	1,880
2006	118	67.8%	11.0	1,295	16.6%	49.3%	6.4	373	21.6	1,291
2007	122	54.1%	12.9	1,577	15.2%	51.5%	6.3	395	13.3	931
2008	125	49.6%	10.5	1,314	14.4%	58.6%	4.5	330	33.0	1,708
2009	122	49.2%	12.5	1,505	10.9%	55.5%	3.7	243	15.8	869
2010	122	57.4%	12.0	1,462	18.3%	49.3%	7.9	475	18.0	1,112
2011	123	44.1%	9.8	1,204	21.9%	51.9%	6.1	388	14.3	846

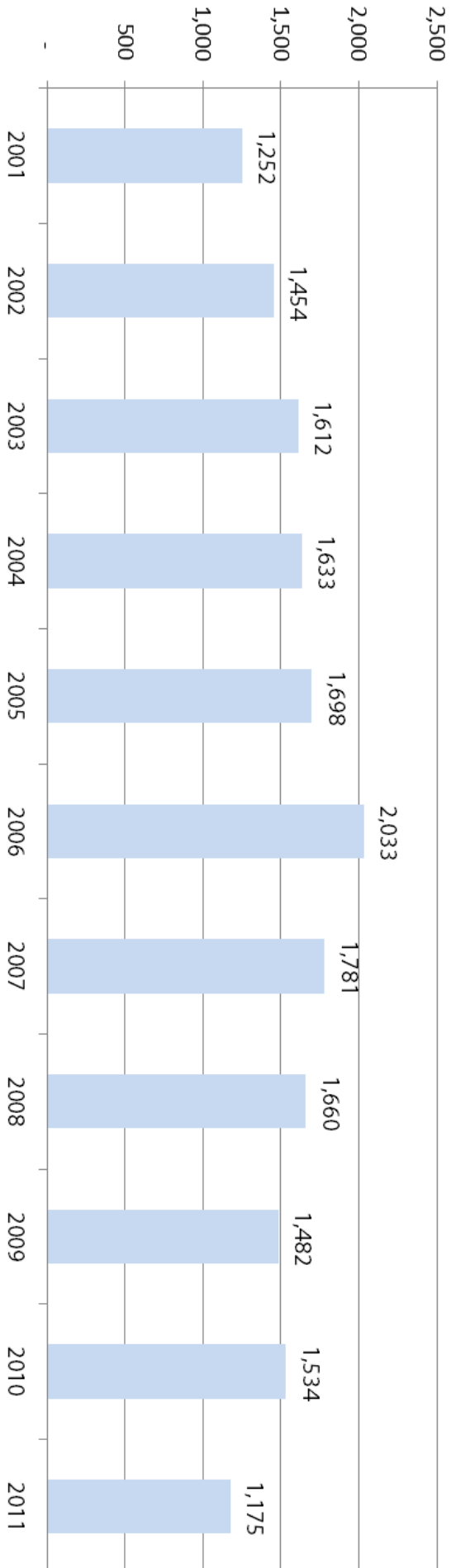
ESTIMATED TOTAL ENTERING CLASS ENROLLMENT FOR ALL RADIATION THERAPY PROGRAMS



Nuclear Medicine Technology

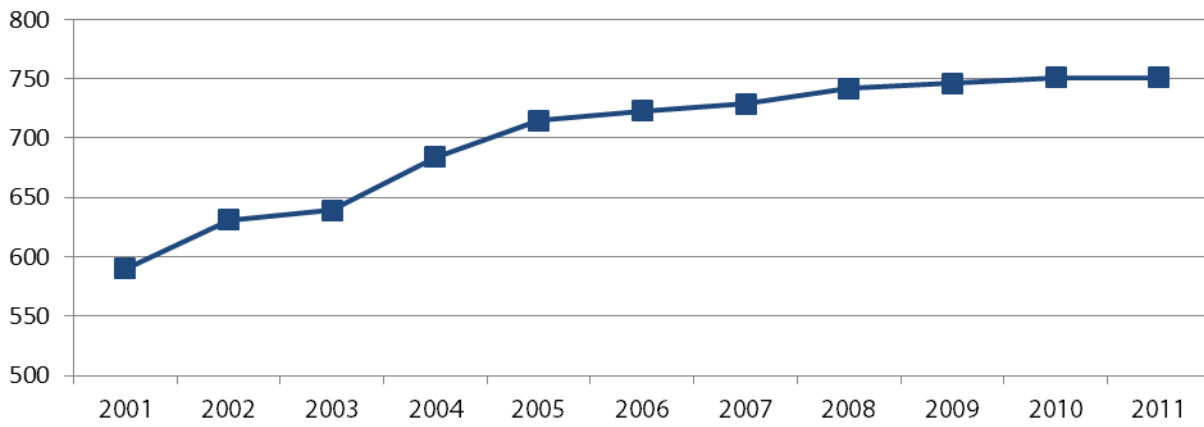
Year	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition rate	Percent of programs not at full capacity	Mean number of additional students that could be accommodated per program for those not at full capacity	Estimated total additional students that could be accommodated per program for programs not at full capacity	Mean number of 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	251	19.7	1,381
2003	111	59.5%	14.5	1,612	7.1%	33.3%	2.7	180	32.1	2,375
2004	117	58.1%	14.0	1,633	9.8%	20.9%	3.6	88	24.4	2,258
2005	122	51.6%	13.7	1,698	8.6%	30.6%	5.1	191	32.9	2,786
2006	131	71.8%	15.5	2,033	10.2%	31.8%	5.7	238	30.2	2,697
2007	132	55.3%	13.5	1,781	8.3%	39.7%	6.3	331	24.2	1,916
2008	136	59.5%	12.2	1,660	12.3%	58.4%	10.0	794	18.2	1,032
2009	136	47.5%	10.8	1,482	7.0%	63.0%	4.3	416	9.3	473
2010	136	47.1%	11.3	1,534	12.9%	78.8%	7.0	748	12.9	372
2011	134	45.7%	8.8	1,175	11.3%	82.5%	7.2	796	8.0	187

ESTIMATED TOTAL ENTERING CLASS ENROLLMENT FOR ALL NUCLEAR MEDICINE TECHNOLOGY PROGRAMS

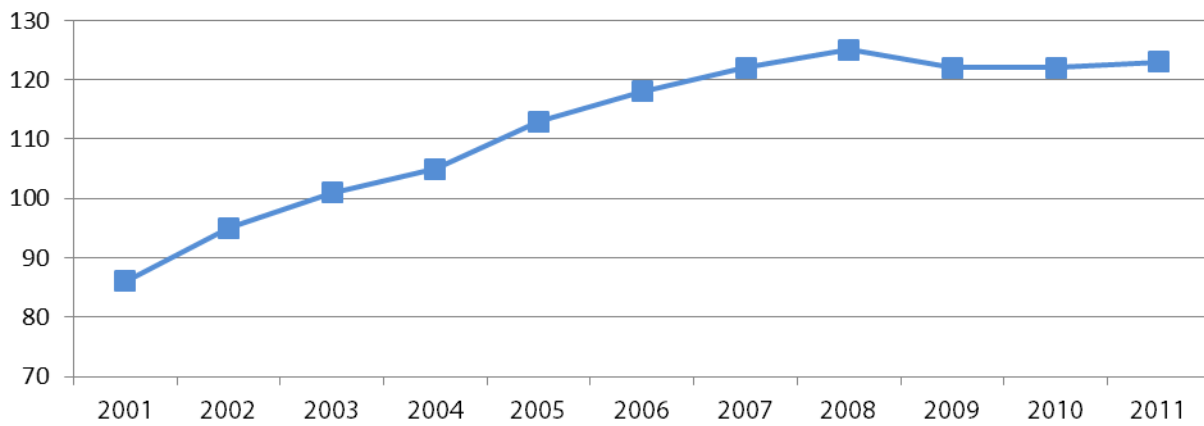


Number of ARRT-Recognized Programs

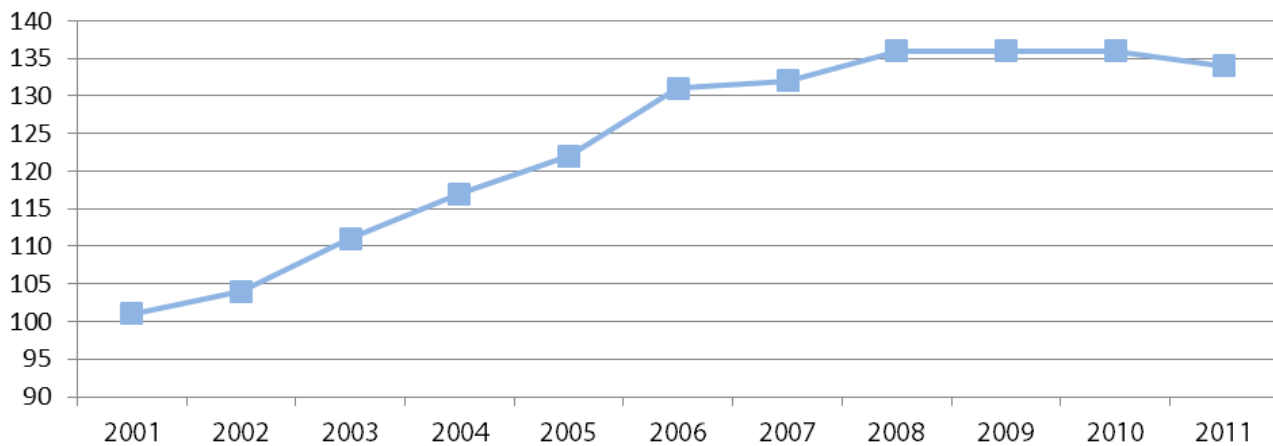
Radiography



Radiation Therapy



Nuclear Medicine Technology



Job Placement of Graduates

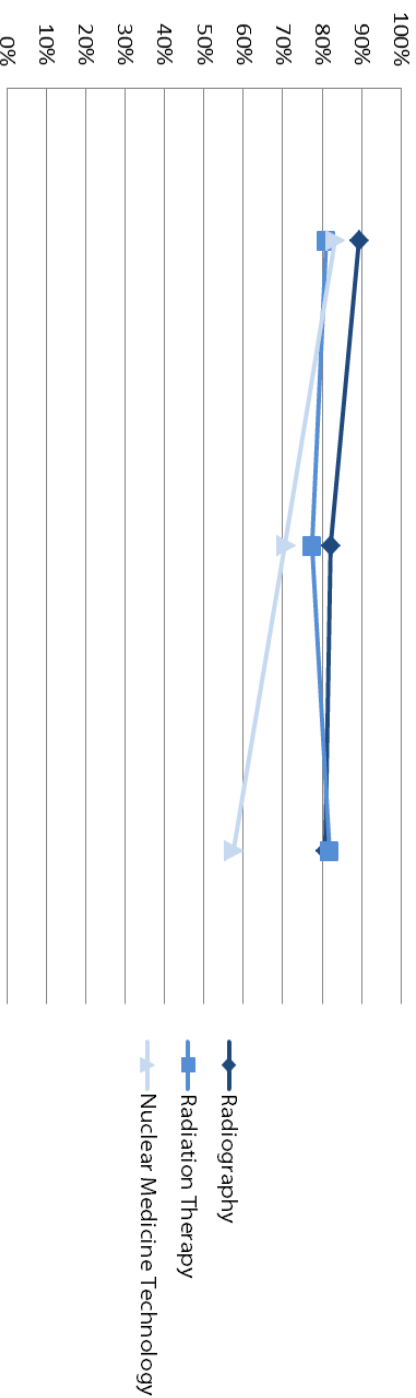
15. What is the job placement of students finding employment in their discipline within six months of graduation from your program?

Region	States	2008	2009	2010	Overall
New England	(ME, NH, VT, MA, RI, CT)	91.6%	86.2%	82.1%	89.3%
Mid-Atlantic	(NY, PA, NJ)	89.7%	80.3%	76.2%	81.9%
East North Central	(WI, MI, IL, IN, OH)	89.0%	81.1%	80.8%	83.6%
West North Central	(ND, SD, NE, KS, MN, IA, MO)	90.2%	84.1%	82.3%	85.5%
South Atlantic	(DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	88.9%	82.7%	80.1%	83.9%
East South Central	(KY, TN, MS, AL)	88.6%	86.3%	88.5%	84.5%
West South Central	(OK, TX, AR, LA)	86.5%	84.5%	85.6%	85.5%
Mountain	(ID, MT, WY, NV, UT, CO, AZ, NM)	89.8%	79.1%	78.9%	85.9%
Pacific	(AK, WA, OR, CA, HI)	91.9%	77.8%	74.2%	81.3%
Overall		89.3%	82.2%	80.8%	81.9%

Discipline	Year	Placement Rate
Radiography	2008	91.6%
	2009	86.2%
	2010	82.1%
Radiation Therapy	2008	82.0%
	2009	84.2%
	2010	74.1%

Discipline	Year	Placement Rate
Nuclear Medicine Technology	2008	83.8%
	2009	63.8%
	2010	51.7%

What is the job placement percent rate of students finding employment in their discipline?

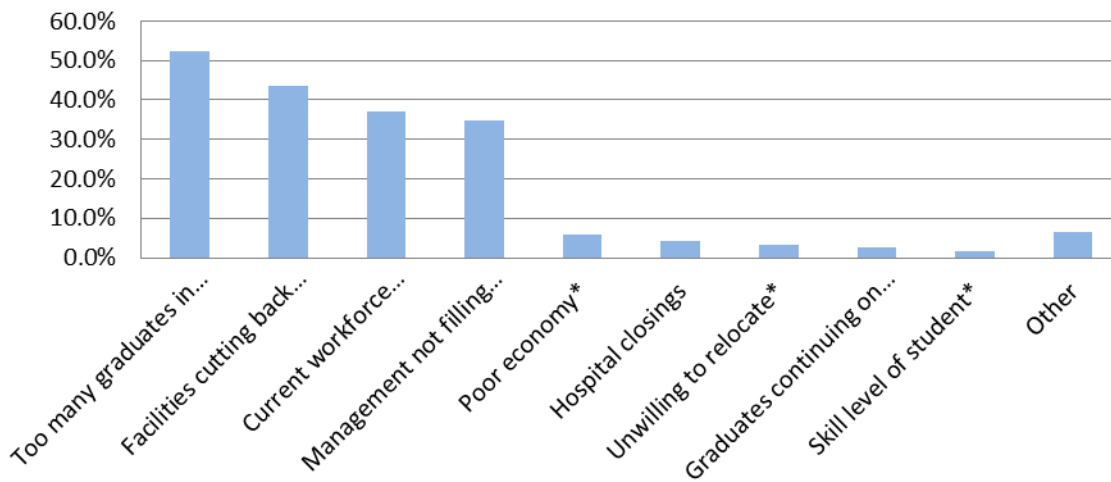


16. For those students who haven't been able to find employment after graduation, what do you believe is the primary reason?

	Responses	
	N	Valid Percent
Too many graduates in relation to the number of open positions	263	52.3
Facilities cutting back positions	220	43.7
Current workforce delaying retirement	186	37.0
Management not filling open positions	175	34.8
Poor economy*	30	6.0
Hospital closings	22	4.4
Unwilling to relocate*	17	3.4
Graduates continuing on for more education*	13	2.6
Skill level of student*	8	1.6
Other	32	6.4

*From coded responses

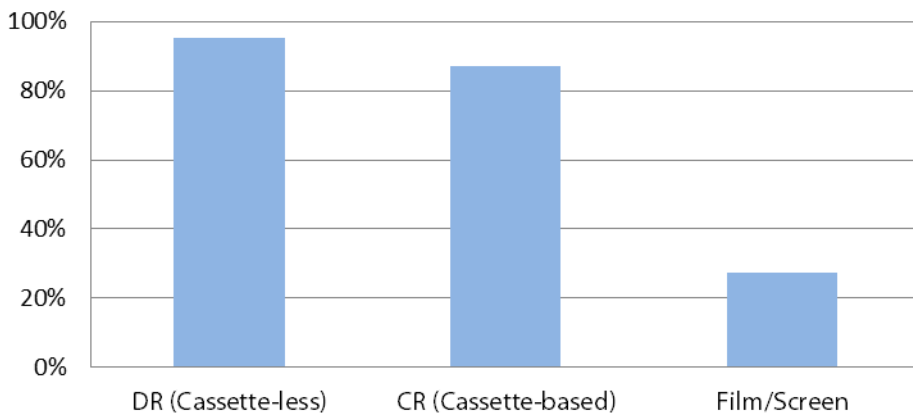
What do you believe is the primary reason for not finding employment?



17. Which of the following imaging technologies are used at your clinical sites?

	Responses	
	N	Percent
DR (Cassette-less)	493	95.4
CR (Cassette-based)	451	87.2
Film/Screen	141	27.3

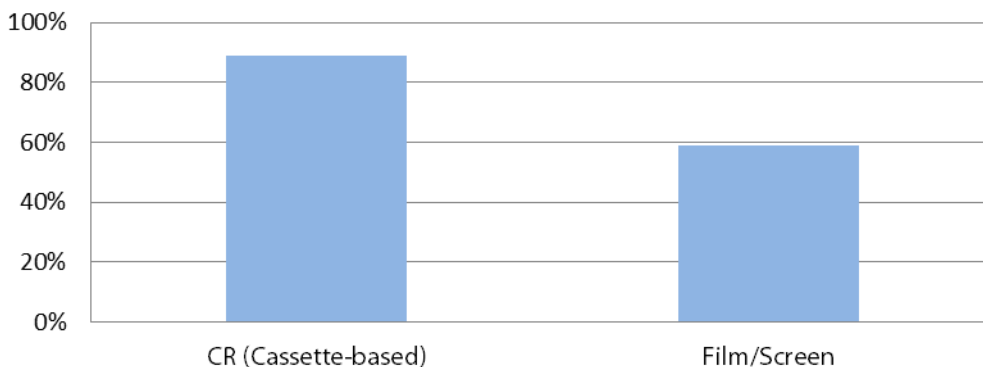
Which of the following imaging technologies are used at your clinical sites?



18. Which of the following technologies are used in your on-campus lab?

	Responses	
	N	Percent
CR (Cassette-based)	317	89.0
Film/Screen	210	59.0

Which of the following technologies are used in your on-campus lab?

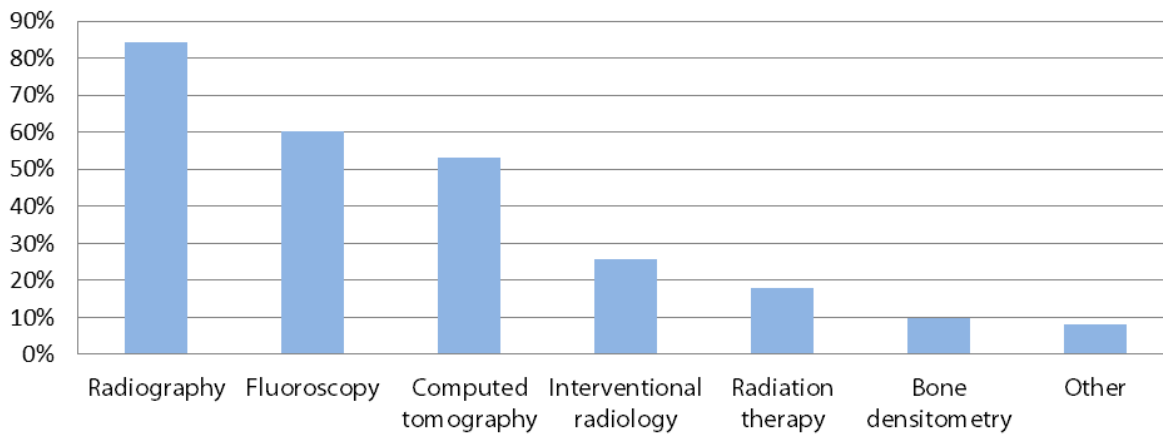


Radiation Safety in the Classroom and Curriculum

19. For which of the following disciplines do you provide specific radiation safety education as a portion of your radiation safety course?

	Responses	
	N	Percent
Radiography	461	84.4
Fluoroscopy	330	60.4
Computed tomography	290	53.1
Interventional radiology	140	25.6
Radiation therapy	98	17.9
Bone densitometry	53	9.7
Other	45	8.2

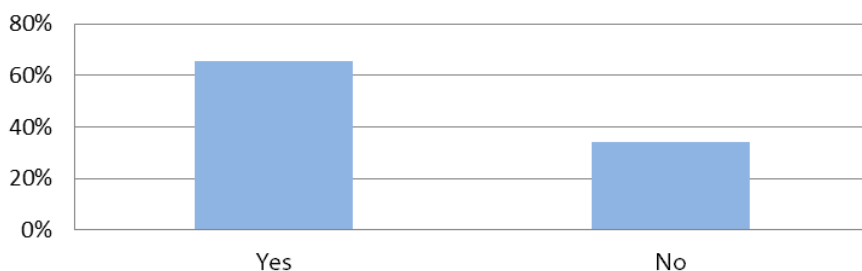
For which of the following disciplines do you provide specific radiation safety education as a portion of your radiation safety course?



20. Is radiation safety content taught as a stand-alone course in your program?

	Frequency	Valid Percent
Yes	357	65.6
No	187	34.4
Total	544	100

Is radiation safety content taught as a stand-alone course in your program?

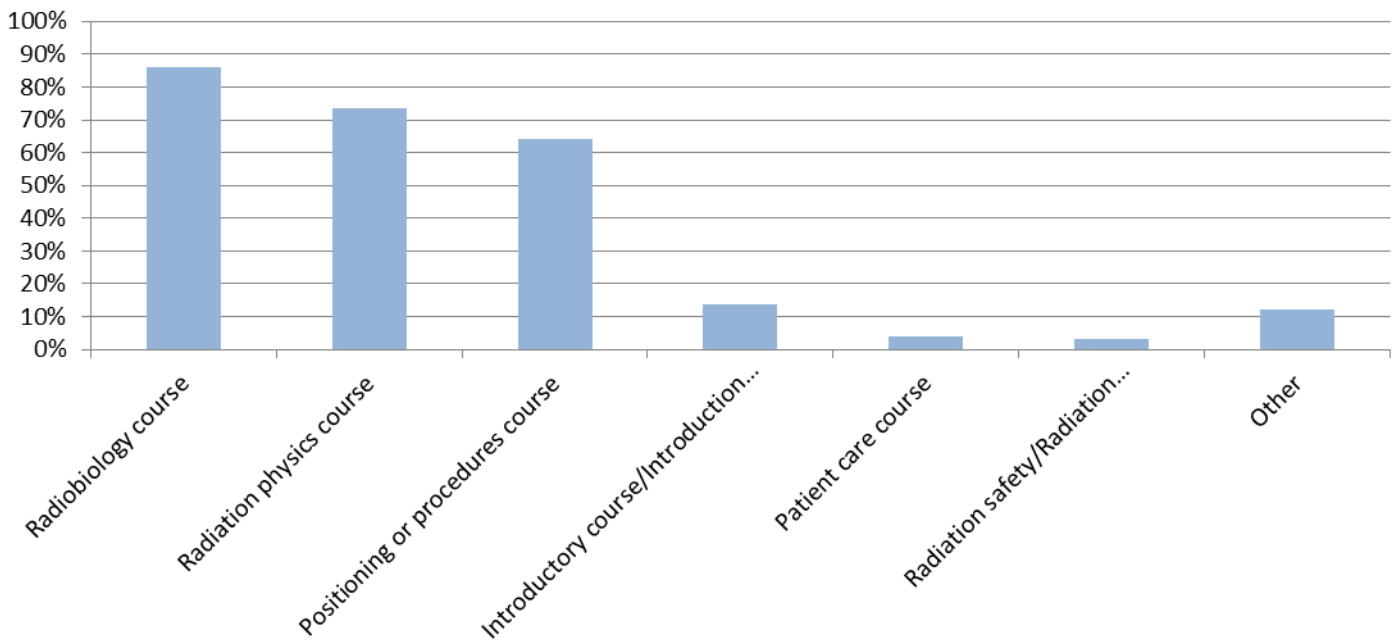


21. If you answered “no” to question 20, in which course is radiation safety content taught as part of the program?

	Responses	
	N	Percent
Radiobiology course	158	85.9%
Radiation physics course	135	73.4%
Positioning or procedures course	118	64.1%
Introductory course/Introduction to the radiologic sciences*	25	13.6%
Patient care course*	7	3.8%
Radiation safety/Radiation protection course*	6	3.2%
Other	22	12.0%

*Coded from verbatim responses

If you answered “no” to question 20, in which course is radiation safety content taught as part of the program?

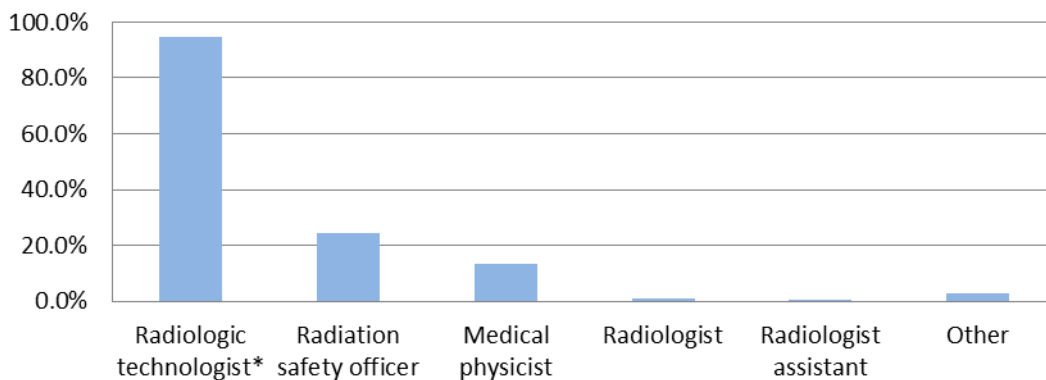


22. Who teaches radiation safety in your program?

	Responses	
	N	Percent
Radiologic technologist*	515	94.6
Radiation safety officer	135	24.6
Medical physicist	73	13.4
Radiologist	5	.9
Radiologist assistant	2	.4
Other	14	2.6

*Includes program directors, instructors, and clinical coordinators

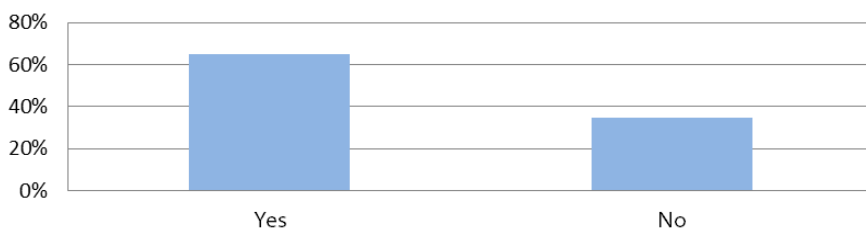
Who teaches radiation safety in your program?



23. Do you know what the (quarterly) mrem threshold is to initiate a dosimeter reading investigation at your institution?

	Frequency	Percent
Yes	347	65.1
No	186	34.9
Total	533	100

Do you know what the mrem threshold is to initiate a dosimeter reading investigation at your institution?



24. Quarterly mean mrem threshold to initiate an investigation*

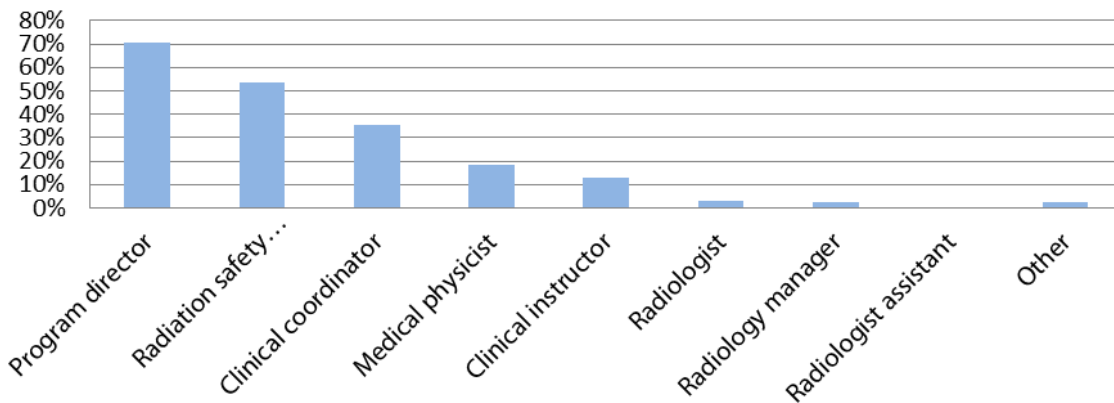
Mean	253 (SD=242)
Percentiles	5th=25, 25th=100, 50th=150, 75th=375, 95th=600

*Responses given as yearly or monthly mrem were computed to quarterly.

25. Who counsels a student with an unusually high dosimeter reading?

	Responses	
	N	Percent
Program director	387	70.4
Radiation safety officer	295	53.6
Clinical coordinator	194	35.3
Medical physicist	100	18.2
Clinical instructor	72	13.1
Radiologist	16	2.9
Radiology manager	15	2.7
Radiologist assistant	1	.2
Other	13	2.4

Who counsels a student with an unusually high dosimeter reading?



26. How often are students sent a copy of their dosimetry report?

	Frequency	Valid Percent
Never	28	5.1
Annually	49	8.9
Biannually	4	.7
Quarterly	186	34.1
Bimonthly*	35	6.4
Monthly	213	39.1
Upon request*	13	2.4
24-hour online access*	8	1.4
Other	9	1.7
Total	545	100

*Coded from verbatim responses

How often are students sent a copy of their dosimetry report?

