

Results & Analysis
Nuclear Medicine Technology Program Director Survey
 N=51

Background Information

1. What is your position in the program?

100% Program Director	0% Other Educational Faculty
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2. How many students are in your senior class?

35% 1-5	29% 6-10	22% 11-15	10% 16-20	4% 21 or more
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3. Is your program a certificate-based program or a degree-granting program?

23 % Certificate-Based	77 % Degree-Granting
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4. Is your program sponsored by a healthcare institution or an educational institution?

20% Healthcare	76% Educational	4% Other
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5. How many clinical sites does your program have?

8% 1	14% 2-5	37% 6-9	41% 10 or more
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6. How many clinical sites are currently allowing students to complete clinical procedures at their site?

79% 0	6% 1	13% 2-5	0% 6-9	2% 10 or more
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7. If none of your clinical sites are currently allowing students to complete competencies on site, indicate the date that they have set for students to be able to return.

65% have not set a date	17% within the next month	15% 2-3 months	2% 4-6 months	0% 7 months or more
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Educational Program Completion

8. When is/was your senior class scheduled to graduate?

11% has already graduated	39% within the next month	35% 2-3 months	4% 4-6 months	7% \geq 7 months
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9. Not considering any requirements that are specific to ARRT's didactic and clinical competency requirements, what percentage of your senior students are expected to complete all the institution's other graduation requirements by the anticipated graduation date noted above?

2% 0	0% 1-20%	0% 21-40%	2% 41-60%	0% 61-80%	20% 81-99%	76% 100%
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- too early to tell

ARRT Didactic Competency Requirements

10. What percentage of your senior students are expected to have completed ARRT didactic competency requirements by the anticipated graduation date noted above (see explanation of ARRT Didactic Competency Requirements attached)?

0% 0%	0% 1-20%	0% 21-60%	4% 61-80%	11% 81-99%	85% 100%
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11. If any students are not expected to complete the ARRT didactic and competency requirements by the graduation date, what requirements will they be lacking?

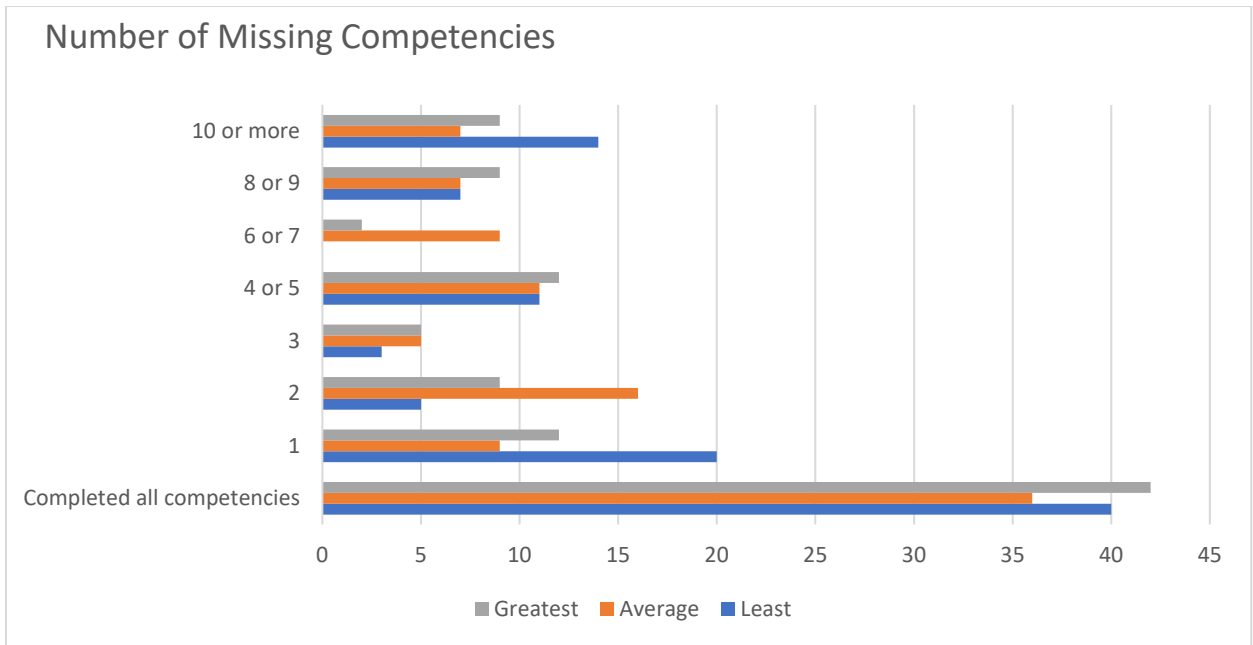
88% Will complete all requirements	12% Will not complete all requirements
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ARRT Clinical Competency Requirements

12. What percentage of your senior students are expected to have completed ARRT clinical competency requirements by the anticipated graduation date noted above? (See explanation of ARRT Clinical Competency Requirements attached)

11% 0%	7% 1-20%	0% 21-40%	11% 41-60%	7% 61-80%	25% 81-99%	39% 100%
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13, 14, 15. If any students are not expected to have completed the ARRT's 25 procedures in the clinical competency requirements, what is the greatest, average, and least number missing considering the entire group of students?



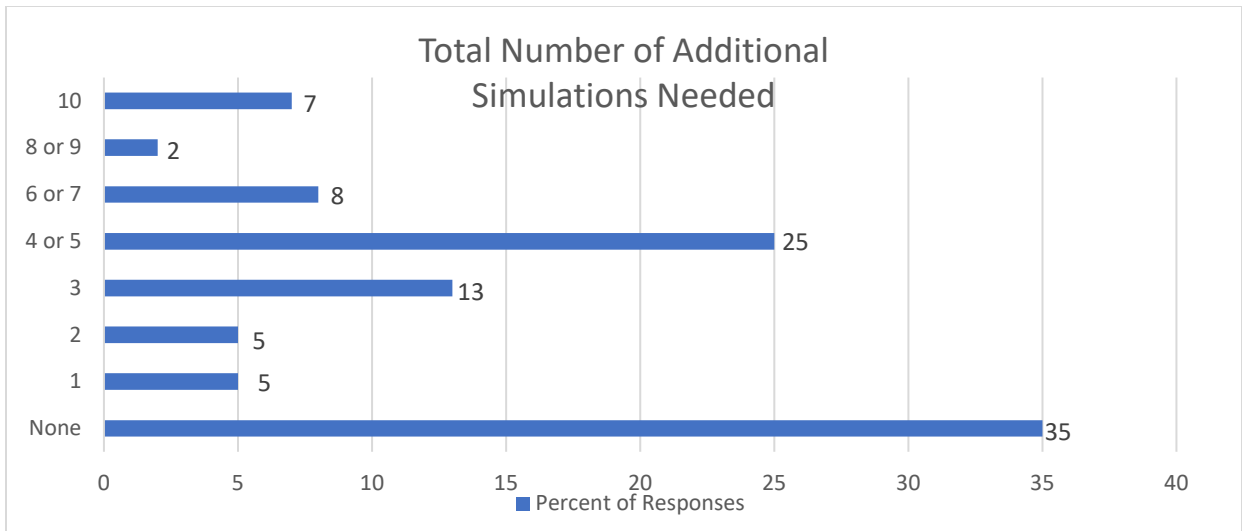
16. If any students are not expected to have completed the ARRT clinical competency requirements, are there procedures in common across the students that they will be lacking or do the ones missing vary widely across individuals?

38% Competencies have been/will be completed	16% Missing particular competencies	45% Missing competencies varies
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- Genitourinary (listed by many)
- Gastrointestinal (listed by many)
- Tumor (listed by many)
- Radiopharmacy (difficult due to change in USP rules)
- Endocrine
- Not one intern meets requirements to sit for the ARRT

Simulation of Procedures

17. What is the total number of procedures, other than therapeutic procedures, that would need to be simulated for your students to meet the requirements?



18. What environment does your program have for simulation of procedures?

34% Clinical Lab
37% Education program on-campus lab
0% On-campus virtual lab
12% Clinical virtual lab
15% Other

- Cannot access college lab at this time (listed by many)
- We would have to use the clinical lab of our affiliates

19. Which of these environments do your students have access to at this time?

10% Clinical lab
5% Educational program on-campus lab
5% On-campus virtual lab
23% Clinical virtual lab
55% Other

- None (listed by many)
- Webex
- On-line didactic
- Zoom sessions—didactic only

20. Can program officials be available for students to simulate the procedures?

22% No	76% Yes	2% Other
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- Via Skype, Zoom, or Google hangouts but not in person (listed by many)
- Not allowed on campus (listed by many)

21. Are there restrictions that your program has that limit the ability to simulate the procedures?

70% No	30% Yes
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- But must be done with no patients in departments
- Don't know (listed by many)
- Campus is closed (listed by many)

22. If ARRT were to change the types of procedures that could be simulated, but maintained the current criteria for how simulations must be performed, would it be possible for those students who lack clinical competencies to complete them?

16% No	84% Yes
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- Not yet – only once permitted on campus (listed by many)

23. If ARRT were to increase the number of procedures that could be simulated, would it be possible for students to perform at least one procedure for each area (skeletal, cardiovascular, endocrine/exocrine, gastrointestinal, etc.) on an actual patient?

33% No	67% Yes
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- Maybe. For things like cardiac, GI, endocrine, skeletal, the answer is yes. GU may be hard as not a lot are doing renals these days, as well as infection, etc..... CNS is 50/50.
- All general nuclear medicine procedures, yes.
- not at this time
- The Tumor Imaging area is where most of my students require a comp. So they would not have completed a patient comp in that area, but they would all the rest.

24. If your program cannot meet ARRT's current criteria for simulations, how would the criteria need to be modified for your students to be able to demonstrate the competencies?

55% Do not need modifications	43% Need modifications	2% Other
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- Modification would have to exclude an actual patient
- Allow all procedures to be simulated (listed by several)
- So that our students can graduate on time we have completed online competency simulations.
 - Program Director verified competencies through procedure writing, simulations using online ROI drawing and positioning using dolls, and strict questioning and explanation of the procedure
 - one student needed a PET/CT comp. His uncle owns a PET/CT facility so he allowed us to go in after hours and he simulated the entire study from start to finish.
- Allow program directors to direct clinical instructors toward simulation standards for the few remaining procedures for registry qualification.

25. If ARRT were to maintain the current number of procedures that can be simulated but modified the current criteria for simulating procedures consistent with your answer above, would it be possible for your students who still need to complete some clinical competencies to demonstrate them?

29% No	71% Yes
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- Keep the same number of competencies for simulation (keeping a percentage)
 - Allow program director latitude to determine the competencies to be simulated based on the demographics of the clinical site, the length of time the student is at the clinical site, and the patient availability for the certain procedures performed.
- The number of allowable simulations would need to be increased from the 1 therapy simulation.

26. Are all your students able to complete all the quality control procedures (e.g., dose calibrator linearity test)?

12% No	88% Yes
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- Dose calibrator linearity is an issue (listed by several)
- Not until back to clinical sites or back to on-campus lab

Degree Requirement

27. Does your program admit only students who already have an associate degree or higher?

73% No degree needed	27% Yes
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28. Does your program award a degree?

20% No	24% Associate	49% Baccalaureate	7% Other (Masters listed by several)
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29. If your program does award a degree, will the students completing the program's professional component be able to complete the degree requirement by the anticipated graduation date noted above?

20% No	77% Yes
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- Not sure (listed by several)
- Only if they complete their competencies

Miscellaneous

30. Does your program require that students meet a specified number of clinical hours* in addition to completing ARRT Didactic and Clinical Competency Requirements—Nuclear Medicine Technology?

*clinical hour requirements are determined by each program and programmatic accreditors

56% No	44% Yes
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31. If your program requires that students meet a specified number of clinical hours, how will meeting the required number of hours continue to be a challenge even after students have completed ARRT Didactic and Clinical Competency Requirements—Nuclear Medicine Technology?

68% Students have met requirements or does not apply	32% Meeting the required clinical hours is a challenge
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- We have modified the required number of hours
- Clinical rotation hours will be extended
- JRCNMT does not require a certain set number of hours, but they do require documented competency
 - Is not dictated by the number of repetitions
 - We use the ARRT and the NMTCB competency guidelines to model our curriculum after
 - Not meeting the ARRT mandated repetitions does not stop our students from taking the NMTCB. It does prevent dual registry however.

32. Are there any other impediments to meeting ARRT's eligibility requirements that have not been addressed in the questions above?

95% No	5% Yes
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- Difficulty with the paper exam application process – slows down eligibility

33. If ARRT modified how the requirements are satisfied, how would you want to apply these changes?

49% Modified requirements only for students near graduation	51% Modified requirements should apply to all current students
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- All current students are impacted in some way - make it equitable for all.
- This needs to be an exception and not the rule. (similar content was listed by several)