

Nuclear Medicine Authorized User Eligibility Requirements

Nuclear Medicine Training Total of 80 Hours Minimum	Credit Hours	Suggested Completion Date	How to Document
Curriculum and Technical Training			
Nuclear Medicine Hands-On Technical Experience Attachment A -	2	3 rd year	Please attach form completed by NM technologists Attachment A
Physics Modules – RSNA https://www.rsna.org/education/trainee-resources/physics-modules	14	2 nd year	Please submit RSNA certificates to Program Coordinators to be uploaded to New Innovations
I-131 Therapies (3 high dose and 3 low dose therapies completed in Endocrinology) Attachment B -	6	4 th Year	Please submit signed I-131 log (Drs. Marquess/Alexander) to Program Coordinators to be uploaded to New Innovations Attachment B
Nuclear Medicine Lectures			
Radiation Safety Lectures R1 Orientation and Physics curriculum Attachment C -	2	1 within 1 st 18 months 2 by 3 rd year	Please attach conference attendance logs from New Innovations Attachment C
Radiobiology Lectures	4	3 rd year	Please attach conference attendance logs from New Innovations
Additional Nuclear Medicine & Physics Lectures (see attached for list of applicable Physics lectures)	(52 hours minimum)		Please attach conference attendance logs from New Innovations
Summary - Total Hours of Technical Training	(80 hours minimum)		
Clinical Rotation			
Clinical Weeks General Nuclear Medicine			New Innovations/ Amion schedule
Clinical Weeks Cardiovascular Nuclear Medicine			New Innovations/ Amion schedule
Clinical Weeks Pediatric Nuclear Medicine (if applicable)	(optional)		New Innovations/ Amion schedule
Summary Total Clinical Weeks	(16 weeks minimum)		
Total Hours of Technical and Clinical Nuclear Medicine Training (Total Hours of Technical Training + Total Clinical Weeks X 40)	(700 hours minimum)		

Nuclear Medicine Hands-On Technical Experience

Resident Name: _____ Residency Completion Year: _____

Nuclear Medicine Technologist Precepting: _____

Date of Hands-On Technical Training: _____

Nuclear Medicine Technical Training/ Hands-On Experience Checklist	Nuclear Medicine Technologist Signature/Date
1) Ordering, receiving and unpacking radioactive material safely and performing the related radiation surveys	
2) Performing QC procedures on instruments used to determine the activity of dosages, and performing checks for proper operation of survey meters	
3) The safe elution and QC of radionuclide generator systems	
4) Calculating, measuring and safely preparing patient dosages	
5) Response to radiation spills and accidents (containment and decontamination procedures)	
6) Radiation signage and related materials	
7) Using administrative controls to prevent medical events	
8) Administration doses of radioactive drugs to patients or human research subjects	

Form A



American Board of Radiology — Program Director Attestation

COMPLIANCE WITH NRC TRAINING AND EXPERIENCE REQUIREMENTS

Forms A and B must be submitted after completion of your NRC training and experience.

More information can be found at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/cfr/part035/part035-0290.html>

Resident Name	Program	Program #	YES	NO
By the time of the ABR certifying examination, this applicant will have successfully completed the hours of training and experience as outlined in 10 CFR 35.290, 35.392, and 35.394			<input type="checkbox"/>	<input type="checkbox"/>
This applicant has taken part in ≥ 3 cases of oral administration of I-131 therapy $\leq 33\text{mCi}$			<input type="checkbox"/>	<input type="checkbox"/>
This applicant has taken part in ≥ 3 cases of oral administration of I-131 therapy $>33\text{ mCi}$			<input type="checkbox"/>	<input type="checkbox"/>
The resident's log of these therapy experiences (date, dose, and preceptor attestation) is attached.....			<input type="checkbox"/>	<input type="checkbox"/>
I attest that the work experience cited above for § 35.290 was completed under the supervision of an Authorized User (AU) who meets the requirements under relevant sections of § 35.290 or equivalent Agreement State requirements.....			<input type="checkbox"/>	<input type="checkbox"/>
I attest that the work experience cited above for § 35.392 was completed under the supervision of an Authorized User (AU) who meets the requirements under § 35.390, 35.392 or 35.394, or equivalent Agreement State requirements.....			<input type="checkbox"/>	<input type="checkbox"/>
I attest that the work experience cited above for § 35.394 was completed under the supervision of an Authorized User (AU) who meets the requirements under § 35.390 or 35.394, or equivalent Agreement State requirements.....			<input type="checkbox"/>	<input type="checkbox"/>
Residency Program Director (Print Name)	Program Director (Signature)	Date		

Form B

I-131 Therapy Experience Log

<hr/>		<hr/>
Resident Name		Program & Number
<u>Date</u>	<u>Dose Administered</u>	<u>Preceptor (AU) Print & Sign Name</u>
≤ 33mCi		
1. <hr/>	<hr/>	<hr/>
		Print Name
		<hr/>
		Sign Name
2. <hr/>	<hr/>	<hr/>
		Print Name
		<hr/>
		Sign Name
3. <hr/>	<hr/>	<hr/>
		Print Name
		<hr/>
		Sign Name

Date

Dose Administered

Preceptor (AU) Print & Sign Name

>33 mCi

1. _____

Print Name

Sign Name

2. _____

Print Name

Sign Name

3. _____

Print Name

Sign Name

The preceding ABR forms do not have to be completed for a resident to take the ABR exam, including the Nuclear Medicine section of the exam. Completing the forms documents the required training and work experience, and allows the candidate to receive Authorized User (AU)-eligible designation on his/her certificate.

Candidates who fulfill all the requirements listed on Form A and Form B, and who pass all their ABR exams, will receive an ABR certificate that contains the additional designation "AU-eligible." This means that the person is eligible through the ABR pathway to be approved by the NRC or Agreement State as an AU of medical radionuclides for imaging and localization studies and for oral administration of sodium iodide I-

131. NRC approval is obtained upon written application to the NRC/Agreement State and also requires submission of an NRC preceptor form, which has been completed and signed by the preceptor who must be an AU. The forms are available on the NRC website.

For International Medical Graduates (IMGs) via the Alternate Pathway program, the preceding ABR forms must be submitted six months prior to the Certifying Examination. Form A will be signed by the department chair, and Form B will be signed by the preceptor.

Conferences Approved for Nuclear Medicine (Attachment C)

Radio Biology Lectures

- Radiobiology 1 Molecular and Cellular Effects of Radiation
- Radiobiology 2 Modification of Radiation Responses

Radiation Safety

- Radiation Safety in Fluoroscopy

Physics Lectures Approved for Nuclear Medicine

- CT1 - Image Acquisition and Formation in Multislice CT
- CT2 – Image Reconstruction and Imaging Parameters
- CT3 – CT Image Quality
- CT4 – Dose Parameters and Dosimetry in CT
- CT5 – Imaging Factors Determining Patient Dose in CT
- Nuclear Medicine Physics Review

Nuclear Medicine Lectures

- Intro to PET/CT
- VQ
- Renal with DMSA, Pyelonephritis, reflux, etc.
- Pet/CT Response to Therapy
- CNS 1 (Dementia/Neurodegenerative)
- Nuclear Medicine 1
- Renal
- Nuclear Medicine 2
- Benign Bone and Soft Tissue
- PET/CT Lymphoma
- PET/CT Lung Cancer
- Pediatric GU/Renal
- Central Nervous System 2 (Brain Death, Epilepsy/CSF Flow)
- PET/CT: Brain Tumors
- Novel PET (Dotate, Asumin)
- PET/CT Colorectal Cancer
- Bone Scan: Malignant
- Radium Treatment
- Emergent Cases (GI Bleed, HIDA, VQ)
- Inflammation
- Lymphoscintigraphy
- PET/CT Esophageal Cancer
- Thyroid Imaging and Therapy
- Nuclear Medicine Case Conferences

RSNA/AAPM Modules

1. Atoms, Radiation and Radioactivity – 1hr
 2. Interactions of Radiation and Tissue – 1hr
 3. Radiation Measurements and Units – 1hr
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1. Basic Radiation Biology – 1hr
 2. Radiation Effects – 1hr
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1. Fundamentals of Radiation Protection – 1hr
 2. Radiation Dose and Risk – 1hr
 3. Radionuclide Dosimetry and Nuclear Regulations – 1hr
 4. Estimating Cancer Risk from Imaging Procedures – 1hr
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1. Radiation Detection Instrumentation in Nuclear Medicine Practice – 1hr
 2. Gamma Cameras/Image Quality -1hr
 3. Nuclear Medicine Radioisotopes and Radiopharmaceuticals – 1hr
 4. SPECT/SPECT-CT / Image Quality -1hr
 5. PET/PET-CT Image Quality – 1hr
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- Instructions on how to print a certificate of completion to provide to the program coordinators as documentation of completion (once all are completed, so that it is in 1 document rather than 14 different documents):
 - Click “View Certificate” next to any of the courses. This will open up a separate window containing the RSNA Online Learning Center. Go to the “Completed” tab and specify Year as “All”. Then click on the “All Completed Courses” link at the top of the page. This will generate a report of all completed modules. Please ensure that all 14 of the required modules appear in this document before submitting to the program coordinators.