SES094 Specialty Update: Nuclear Medicine

Felicia Davis, MHA – Executive Director
Conflict of Interest Disclosure

Speaker(s): Felicia Davis, MHA

Disclosure
None of the speakers for this educational activity have relevant financial relationship(s) to disclose with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.
Topics for Today...

- NAS Observations
- ADS
- Program Requirement Changes
- Review Committee Discussions
- Committee Composition
Nuclear Medicine 2022-2023

- 36 accredited programs
- 78/139 (56%) filled/approved resident positions
## Nuclear Medicine 10-Year Stats

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Programs</th>
<th>Residents On Duty</th>
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<tr>
<td>2012-2013</td>
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<td>120</td>
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<td>2013-2014</td>
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<td>2014-2015</td>
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<td>2018-2019</td>
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<td>2019-2020</td>
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<td>2020-2021</td>
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<td>2021-2022</td>
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<tr>
<td>2022-2023</td>
<td>36</td>
<td>78</td>
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</table>
Nuclear Medicine 10-Year Stats

Nuclear Medicine 10-year Trend

<table>
<thead>
<tr>
<th>Year</th>
<th>Programs</th>
<th>On duty</th>
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<tbody>
<tr>
<td>2012-2013</td>
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<td>76</td>
</tr>
<tr>
<td>2022-2023</td>
<td>36</td>
<td>78</td>
</tr>
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</table>
Top 3 Most Flagged Indicators

1. Clinical Experience (Case Logs)
2. Faculty Survey
3. Resident Survey / Resident Scholarly Activity
# NM NAS Review Summary

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>42% programs</td>
<td>Compliant, no feedback</td>
</tr>
<tr>
<td>30% programs</td>
<td>Minor concerns, feedback in the form of AFIs</td>
</tr>
<tr>
<td>27% programs</td>
<td>Concerns, feedback either as citations and/or AFIs</td>
</tr>
</tbody>
</table>
Area for Improvement
• Areas noted by the Committee for program improvement before it becomes non-compliant or professional “heads up”
• Does not require formal response back to RC
• Pgm updates in “Major Changes” section of ADS recommended

Citations
• Areas of non-compliance with the requirements
• Requires full program response for Committee Review
Major Changes in ADS

• Major clinical/administrative changes in your program
• Highlight changes implemented to address AFI's
• Highlight program plans to address resident survey deficiencies
• Effects/impact of COVID or other major events
NM Case Logs

- All programs are required to use the ACGME Case Log System.
- Residents must enter all specified procedures performed during their residency education into the ACGME case log system regardless of stated minimums.
- Still seeing erroneous or omitted data entry.
- Inaccurate data impedes the Committee’s ability to set accurate and realistic future benchmarks for the specialty.
Many programs providing inadequate block diagrams

Not representative of a 3-year curriculum

NM is a three-year specialty. This should be reflected on the block diagram.

Even programs with recruiting practices that only consider NM2 or NM3 residents
Block Diagram

- Block diagram should be free of individual resident names or identifiers
- If abbreviations are used for rotations or site names, a Key must be provided
- Block diagram guide posted on Committee’s webpage
Nuclear Medicine

Documents
- Call for Resident Member Nominations
- Guidelines for Nuclear Medicine Resident Case Log Entry
- Nuclear Medicine Block Diagram Guide
- Requests for Changes in Resident Complement

Common Resources
This page contains links that are common across all specialty pages.
- Resident/Fellow Survey-Common Program Requirements Crosswalk
- Faculty Survey-Common Program Requirements Crosswalk
- Program Directors’ Guide to the Common Program Requirements
- ACGME Glossary of Terms
- ACGME Review Committee 2019 Faculty Scholarly Activity Decisions
- ACGME Review Committee 2019 Eligibility Decisions

Contact Us:
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Jenny Campbell, MA
jcampbell@acgme.org
### Block Diagram Example

#### NM-1 (PGY-2) Rotation Block Diagram (13 x 4-week blocks)

<table>
<thead>
<tr>
<th>Block</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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<th>13</th>
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<tbody>
<tr>
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<td>2</td>
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</table>

#### NM-2 (PGY-3) Rotation Block Diagram (13 x 4-week blocks)

<table>
<thead>
<tr>
<th>Block</th>
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<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Rotation Name</td>
<td>CT</td>
<td>General Nuc Med</td>
<td>Pediatric Nuc Med</td>
<td>PET/CT</td>
<td>General Nuc Med</td>
<td>Research</td>
<td>CT</td>
<td>General Nuc Med</td>
<td>PET/CT</td>
<td>Pediatric Nuc Med</td>
<td>Elective</td>
<td>General Nuc Med</td>
<td>CT</td>
</tr>
</tbody>
</table>

#### NM-3 (PGY-4) Rotation Block Diagram (13 x 4-week blocks)

<table>
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<th>5</th>
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</thead>
<tbody>
<tr>
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<td>2</td>
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<td>2</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Rotation Name</td>
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<td>Radiation Oncology</td>
<td>MRI</td>
<td>General Nuc Med</td>
<td>Research</td>
<td>CT</td>
<td>PET/CT</td>
<td>General Nuc Med</td>
<td>CT</td>
<td>Pediatric Nuc Med</td>
<td>General Nuc Med</td>
<td>PET/CT</td>
<td>General Nuc Med</td>
</tr>
</tbody>
</table>

Sites: (1) University of XXXXXXX (Primary), (2) XXXXXXX VA Hospital, (3) XXXXXXX Children’s Hospital

Available Electives: (both at Site 1): Medical Oncology, Cardiology — most residents elect to do 2 weeks in each.

Vacation: Scheduled by the resident with program director consent. No more than 2 weeks may be taken off during any 4-week block.

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# NM Year ADS Consideration

<table>
<thead>
<tr>
<th>Entering resident has:</th>
<th>Resident status in ADS</th>
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</thead>
<tbody>
<tr>
<td>≤ 12 months of training remaining</td>
<td>= NM3 (or year in program 3)</td>
</tr>
<tr>
<td>Between 24 and 12 months of training remaining</td>
<td>= NM2 (or year in program 2)</td>
</tr>
<tr>
<td>Between 36 and 24 months of training remaining</td>
<td>= NM1 (or year in program 1)</td>
</tr>
</tbody>
</table>
Resident length of training was 1yr, Year In Program should be 3
Review Committee Discussions
Nuclear Medicine PRs

- 30 oral admin of I-131
  - [IV.C.7.d.(1).(a).(i)]
  - 10 malignant cases
  - 10 benign cases

- 5 cases of parenteral therapies
  - [IV.C.7.d.(1).(a).(ii)]

<table>
<thead>
<tr>
<th></th>
<th>Current</th>
<th>Provisional</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-131 &lt;33 mCi benign</td>
<td>10-15</td>
<td>5+</td>
</tr>
<tr>
<td>I-131 &gt;33 mCi malignant</td>
<td>10-15</td>
<td>5+</td>
</tr>
<tr>
<td>Parenteral</td>
<td>5</td>
<td>10+*</td>
</tr>
<tr>
<td>Total Therapies</td>
<td>35</td>
<td>35</td>
</tr>
</tbody>
</table>

*At least 2 different FDA approved radiopharmaceuticals excluding Y90 Microspheres
The ABNM has instituted multiple pathways to meet the requirements for radiotherapy experience, the NM RRC would not find a program in non-compliance with the requirements as long as their trainees met one of those pathways.
ABNM Programs and ABR 16-Month Pathway

• ABNM/ABR 16-month pathway:
  • ACGME accredited NM or Nuclear Radiology program required
  • NM training completed during 4-year DR training
  • Must complete NM case experience requirements
  • Leads to dual certification eligibility from ABR in Diagnostic Radiology and ABNM in Nuclear Medicine
NR Programs and ABR 16-month Pathway

- ABR 16-month pathway:
  - **ACGME Accredited** NM or NR program **not required**
  - NM training completed during 4-year DR training
  - Leads to dual certification eligibility in ABR Diagnostic Radiology and Nuclear Radiology
  - **Not ABNM** eligible based on number of NM rotations
NM Program Participation Tracking

• ADS question for all nuclear medicine programs to help the Review Committee track program participation.

• **Question:** Does your program participate in DR training pathways that lead to ABNM and/or ABR nuclear radiology certification eligibility (i.e. 16 mos NM in 4yr DR pathway)? Y/N”

• If yes, how many residents are participating this year?

• Currently -
  o 22/36 NM programs participating
  o Total of 33 residents
Review Committee for Nuclear Medicine Composition

• 3 nominating organizations - ABNM, SNMMI, and AMA
• 8 voting members (includes one resident and one public member)
• 6 year terms -- except resident (2 years)
• Program Directors, Chairs, Faculty
• Ex-officio from ABNM (non-voting)
Nuclear Medicine RC Members 2022-2023

Delphine Chen, MD
Lance Hall, MD - Chair
Andrei Iagaru, MD
Ruth Lim, MD
Joyce Mhlanga, MD
Miguel Pampaloni, MD, PhD – Vice Chair
Peter Temsah, MD – Resident Member
Jaime Warren, MBA – Public Member
Nuclear Medicine RC Staff

Felicia Davis, MHA – Executive Director  
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Jenny Campbell, MA – Associate Executive Director  
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Bianca Andino – Accreditation Administrator  
bandino@acgme.org
ACGME Updates
These self-directed curricula provide the fundamentals of DEI and will enable participants to move through progressively more complex concepts.

- Trauma-Responsive Cultures
- Steps Leaders Can Take to Increase Diversity, Enhance Inclusion, and Achieve Equity
- Naming Racism and Moving to Action Part
- Women in Medicine
- Exposing Inequities and Operationalizing Racial Justice
- Patient Safety, Value, and Healthcare Equity: Measurement Matters
- American Indian and Alaskan Natives in Medicine
- And many more!

The ACGME designates this enduring material for a maximum of 18.0 AMA PRA Category 1 Credits™
Faculty Development Courses

- Foundations of Competency-Based Medical Education
- Managing your Clinical Competency Committee
- Multi-Source Feedback
An ACGME listening session focused on creating a space for program directors to share experiences and hear from peers regarding issues related to program director well-being.

Join the event for an open discussion of challenges faced by program directors and potential solutions.

- April 11, 2023
- Registration required

https://dl.acgme.org/pages/well-being-tools-resources
Have a question or need assistance? Contact desupport@acgme.org
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The evaluation can be found in the mobile app and a link will be sent post-conference by email to attendees.

Evaluations are tied to your registered sessions.

Register/un-register sessions in the mobile app.

Deadline – March 24, 2023

Questions? cme@acgme.org
Questions?
Thank You