Combined NM-DR Programs

Nuclear Medicine Program Directors Meeting
2014 SNMMI MidWinter Meeting
Palm Springs, California
ABNM Approved Programs

• University of Arkansas

• Emory University

• University of Michigan

• St. Luke’s-Roosevelt/Icahn School of Medicine at Mt. Sinai

• Stanford University
# NM/DR at Stanford

<table>
<thead>
<tr>
<th>PGY</th>
<th>Program Description</th>
<th>Duration</th>
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<tbody>
<tr>
<td>1</td>
<td>Internal Medicine or Surgery</td>
<td>12 months</td>
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<tr>
<td>2</td>
<td>Nuclear Medicine and Research</td>
<td>12 months</td>
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<tr>
<td>3</td>
<td>Diagnostic Radiology (including 1 month NM)</td>
<td>12 months</td>
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<tr>
<td>4</td>
<td>Diagnostic Radiology (including 1 month NM)</td>
<td>12 months</td>
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<tr>
<td>5</td>
<td>Diagnostic Radiology (including 1 month NM)</td>
<td>12 months</td>
</tr>
<tr>
<td>6</td>
<td>Diagnostic Radiology (NM fellowship and Research)</td>
<td>12 months</td>
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Letter to ACGME in Sep 2013

- Combined training in DR and NM: accept
- ADS number issued

Rules for the selection of 1 resident each year:

- DR program representation: Terry Desser, Peter Poullos, Michael Federle, Sandip Biswal
- NM program representation: Andrei Iagaru, Erik Mittra, Andrew Quon, George Segall
- Participate in the residency match
- Same interview selection criteria as for the DR candidates
- Attempt to recruit candidates with a strong background in molecular imaging and clinical translational research, in addition to a proven record of DR interest

Interviewed 4 candidates and hope for a successful 2014 match!
University of Arkansas

• 5 year (4 years of imaging) program called “NuRad”

• PGY1 – 12 months clinical
• PGY2-4 – 4 months NM, 32 months DR
• PGY5 – 12 months NM, including MQSA requirements effective July 1, 2014

• 1 NM FTE transferred to DR with GMEC approval
• Separate Match # in addition to conventional NM & DR positions
• Accepted one person in 2013 NRMP Match to NuRad in lieu of NM
• Program description submitted to *Journal of Graduate Education*

Information provided by Dr. JE McDonald
Emory University

• 4- & 5-year programs

• 4 year program
  • Match into DR
  • Post-Match processing; no separate NMRP program #
  • 16 months (4 week blocks) total NM within 48 months of DR
    • 5 months built into conventional DR program
    • 9 additional months, at least 6 consecutive months
  • Optional 2 months of electives in NM during PGY1 TY at Emory
  • Graduate from DR with ABR & ABNM eligibility
Emory University, cont’d

• 5 year program
  • Geared for future molecular imaging scientists
  • Candidate paired with appropriate mentor
  • Match into Emory PGY1 TY
  • Match into DR for PGY2-5 & NM for PGY6
  • Post-Match processing; no separate NMRP program #
  • Total of 72 imaging rotations (4 week blocks) in 5+ years
    • 42 in DR
    • 16 in NM, at least 6 consecutive months in PGY6
    • 10 in protected research time
    • 4 flex months to be used at discretion of resident
  • Graduate from DR & NM with ABR & ABNM eligibility
University of Michigan

- Dr. George Segall on behalf of Dr. Kirk Frey

**Conventional Pathway**

- 3 ACGME approved NM resident positions
- Accept only residents who are board eligible/certified in another specialty
  - 12 months training for residents who have met the requirements for DR
  - 24 months training for residents with other backgrounds
University of Michigan

**Combined Pathway (16 months NM during 4-year DR residency)**

- 11 ACGME approved DR resident positions per year
- Accept applications for 16 months NM training during 4-year DR program in Jan/Feb of R2 year
- Use 1 NM approved training position for resident in the combined pathway (if there is an available position), or increase number of residents training in NM (up to 5 total)
University of Michigan

Challenges and Opportunities

• DR program must be sufficiently large and flexible to allow DR residents to spend 16 months of training in a focused area.

• Residents in the combined training program would be counted as DR residents. Can NM program maintain accreditation without NM residents?

• Can NM program train more residents without diluting the quality of education for all residents?
Structure of Combined Pathway at SLR

- Maintain the existing 3-year NM residency in order to ensure ACGME accreditation.

- However, combined 4-year NM/DR residents would be hired in preference to 3-year NM residents.

- A 3-year NM resident would be hired only if we could not fill the position with a 4-year NM/DR resident.

- We feel that the 4-year pathway is more desirable for the residents than 5 or 6 year program.
Structure of Combined Pathway at SLR

- The residents who have so far signed up for the pathway find it attractive as it will allow them to gain additional competence by fellowship training in other subspecialties.

- The pathway is introduced to the radiology residency applicants during interviews.

- The residents have to declare their interest by the end of their R1 year and agree to the pathway latest by the middle of R2 year.
Combined programs

• Necessity though no single certification board

• Some similar approaches among the 5 institutions

• Many questions and challenges remain
  • Control/funding
  • External requirements, regulations, e.g., MQSA
  • Local circumstances may dictate what is achievable