Characteristics of the US Diagnostic Radiology Residency Program Director Workforce

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Disclosures

• Nothing to disclose.
Purpose

• To describe characteristics of diagnostic radiology residency program directors (PDs) across the United States.
Methods

• Using publicly available ACGME data, we individually extracted PDs’ names and total number of approved positions of all ACGME-accredited radiology residency programs for 2017.

4201221052 - EMORY UNIVERSITY SCHOOL OF MEDICINE PROGRAM
Radiology-diagnostic - Atlanta, GA

Director Information
Christopher P Ho, MD
Program Director, Assistant Professor Breast Imaging

Total Approved Resident Positions: 64

https://apps.acgme.org/ads/Public/Programs/Search?stateId=&specialtyId=91&specialtyCategoryId=&numCode=&city=atlanta
Methods

PD’s names
National Provider Identifiers (NPIs)

Medicare Physician Compare
- PD’s gender
- PD’s medical school graduation year

If missing, manually searched professional websites
Methods

• We manually searched professional websites to collect:
  – PDs’ radiology subspecialty
  – PD’s academic rank

• Years of professional experience:
  – [Medical school graduation year] - 2017

• ANOVA to compare mean size of program by PDs’ gender

• Size of residency program
  – Large (>29 positions)
  – Medium (20-29 positions)
  – Small (<20 positions)
Results

- Of all 193 PDs, only 52 (26.9%) were female.

- Missing data:
  - Graduation year: 4 PDs
  - Academic rank: 73 PDs

- For PDs with complete data:
  - Mean years of professional experience: 22.1 (SD 9.5; 95% CI 20.8-23.5)
Results

Radiology Residency Program Director Subspecialty

- Abdominal: 54 (18.7%)
- Neuroradiology: 34 (15.5%)
- Generalist: 32 (14.5%)
- Musculoskeletal: 16 (11.4%)
- Breast: 16 (10.9%)
- Vascular and Interventional: 15 (9.3%)
- Pediatric: 15 (7.3%)
- Cardiothoracic: 7 (6.2%)
- Nuclear Medicine: 4 (6.2%)
Results

Assistant Professor: 49/120 (40.8%)
Associate Professor: 42/120 (35.0%)
Professor: 29/120 (24.2%)
Results

• Total # of residents by PD gender:
  – Female PDs: 1,697 residency positions (33.0%)
  – Male PDs: 3,445 residency positions (67.0%)

• Mean residency positions by PD gender (p<0.0001):
  – Female PDs: 32.6 residency positions (SD 1.7, 95% CI 29.2-36.1)
  – Male PDs: 24.4 residency positions (SD 1.1, 95% CI = 22.4-26.5)
Results

<table>
<thead>
<tr>
<th>Radiology Residency Program Size</th>
<th>Female Radiology Residency Program Directors, n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(&gt;29 ACGME-approved positions)</td>
<td>28/67 (41.8%)</td>
</tr>
<tr>
<td>(20 to 29 ACGME-approved positions)</td>
<td>17/62 (27.4%)</td>
</tr>
<tr>
<td>(&lt;20 ACGME-approved positions)</td>
<td>7/64 (10.9%)</td>
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</tbody>
</table>
Conclusion

• Considerable PD gender variability is present in US radiology residency programs

• Female PDs are uncommon in small programs
Thank you