What’s the Difference Between Vascular Surgery, Interventional Cardiology, and Interventional Radiology?

Malachi Sheahan, MD
Claude C. Craighead Jr., Professor and Chair
Division of Vascular and Endovascular Surgery
Louisiana State University Health Sciences Center
New Orleans, LA
Disclosure

None
Year-to-year percent change in coronary procedures per 1000 Medicare beneficiaries.

Medicare Payments Surge for Stents to Unblock Blood Vessels in Limbs

January 29, 2015
Active Vascular Surgeons

- 3130 (301 Female)
- 1 VS per 100,000
- 350 dialysis patients
- 2600 PAD patients
Figure 1.9 Percent Change in the Number of Active Physicians by Specialty, 2008-2013

- Interventional Cardiology
- Vascular & Interventional Radiology
- Pain Medicine & Pain Management
- Neuroradiology
- Critical Care Medicine
- Internal Medicine/Pediatrics
- Geriatric Medicine
- Nephrology
- Infectious Disease
- Emergency Medicine
- Vascular Surgery
- Neonatal-Perinatal Medicine
- Endocrinology, Diabetes & Metabolism
- Rheumatology
- Hematology & Oncology
- Child & Adolescent Psychiatry
- Gastroenterology
- Radiation Oncology
- Physical Medicine & Rehabilitation
- Dermatology
- Allergy & Immunology
- Neurological Surgery
- Family Medicine/General Practice
- Internal Medicine
- Anesthesiology
- Pediatrics
- Plastic Surgery
- Neurology
- Obstetrics & Gynecology
- Ophthalmology
- Cardiovascular Disease
- Otolaryngology
- Radiology & Diagnostic Radiology
- Urology
- Orthopedic Surgery
- General Surgery
- Psychiatry
- Thoracic Surgery
- Preventive Medicine
- Pulmonary Disease
- Anatomic/Clinical Pathology

85%
Aging Workforce

Over 55

IR | Int Cardiology | VS
---|--------------|---
10 | 5            | **40**

Over 55
Future Workforce Needs
Demand for physicians will exceed supply by 60,000-95,000
Primary care 15,000-35,000
Medical specialists 4,000-10,000
Surgical specialists 25,000-33,000
Exhibit ES-2: The status quo supply scenario models the continuation of the current number and specialty distribution of physicians completing their graduate medical education, continuing to work the same number of hours, and maintaining current retirement patterns. Two supply scenarios model the workforce implications if retirement patterns change—with one scenario modeling a shift to retiring earlier by an average of two years and a second scenario modeling an average delay in retirement of two years.
Exhibit 7: Projected Supply and Demand for Surgeons, 2016–2030

The graph illustrates the projected supply and demand for surgeons over the period from 2016 to 2030. The lines represent different scenarios:

- **Demand (Managed Care)**
- **Demand (Status Quo)**
- **Demand (Population Health)**
- **Demand (Demographics)**
- **Demand (APRN/PA Moderate)**
- **Demand (APRN/PA High)**

For supply, there are also several scenarios shown:

- **Supply (Retire 2 Years Later)**
- **Supply (GME Expansion)**
- **Supply (Status Quo)**
- **Supply (Retire 2 Years Earlier)**
- **Supply (Declining Hours)**

The y-axis represents the number of full-time-equivalent physicians, ranging from 130,000 to 190,000, while the x-axis represents the years from 2016 to 2030.
Figure 1.9. Percentage Change in Number of Active Physicians by Specialty, 2012-17
Figure 2.6. Percentage Change in the Number of First-Year ACGME Residents and Fellows by Specialty, 2012–17
Training Paradigms
## Training Pathways

<table>
<thead>
<tr>
<th>Vascular</th>
<th>IR</th>
<th>Int Cardiology</th>
</tr>
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<tbody>
<tr>
<td>5+2/4+2</td>
<td>1+4+1</td>
<td>3+3+1</td>
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<tr>
<td>0+5</td>
<td>1+3+2/1+4+2</td>
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</tbody>
</table>
First Year Trainees

IR +35.2%

Vascular Surgery
IR
Int Cardiology
Females in Training

- Vasc: 400
- Int Card: 250
- IR: 200
Match Trends in Vascular Surgery
Summary of the 2019 Integrated Residency Match

APDVS Annual Meeting
On Behalf of the Resident and Student Recruitment Committee
March 29-30, 2019
0+5 Positions Offered

---|---|---|---|---|---|---|---|---|---|---|---|
0 | 0 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
66 | | | | | | | | | | | 66 |

2019
Integrated Vascular Positions v. Total US Applicants
NRMP CT Integrated

Graph showing the trend of CT Positions and CT Applicants from 2008 to 2019.
Integrated IR

<table>
<thead>
<tr>
<th>Positions</th>
<th>US App</th>
<th>Total App</th>
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<tbody>
<tr>
<td>2018</td>
<td>35</td>
<td>217</td>
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<tr>
<td>2019</td>
<td>37</td>
<td>212</td>
</tr>
</tbody>
</table>
Couples matching

- 1140 individuals in 2003
- 2250 in 2017
5+2 NRMP

2004
2005
2006

Positions
Filled
US
5+2 NRMP Match Report

16 unfilled positions
14 unfilled
13% of positions un-matched (up from 7% last year)
73% filled with US grads (66% 2017)
Only 3 applicants applied to both
No resident matched into second choice
Job Forecast 2025

- Vascular Surgery – Massive shortage
- Int. Cardiology – Volatile
- IR – Demand exceeded
- Cardiac Surgery – Moderate shortage
Recruitment Efforts

● SVS
  ● Student and resident program
  ● Task Force to increase training positions
Nature abhors a vacuum.
Life, ummmm, finds a way.