Trends in Demand for New Physicians, 2010-2014
A Summary of Demand Indicators for 35 Physician Specialties

CHWS
Center for Health Workforce Studies
School of Public Health
University at Albany, State University of New York
Trends in Demand for New Physicians, 2010-2014
A Summary of Demand Indicators for 35 Physician Specialties

August 2015

School of Public Health, University at Albany
State University of New York
1 University Place, Suite 220
Rensselaer, NY 12144-3445

Phone: (518) 402-0250
Web: http://chws.albany.edu
Email: chws@health.ny.gov
This data book presents profiles for 35 specialties. Each specialty profile summarizes trends in 5 key areas related to physician supply and demand: starting income, job offers, having to change plans due to limited practice opportunities, relative demand, and numbers of graduates. Data on starting income, job offers, having to change plans, and relative demand are based on responses to the Resident Exit Survey in New York (for the years 2010 to 2014).

This report was prepared by the Center for Health Workforce Studies (CHWS) staff, David Armstrong, Robert Martiniano, Gaetano Forte, and Jean Moore, with layout design by Leanne Keough. Funding for this report was provided by the New York State Department of Health.

Established in 1996, CHWS is a not-for-profit research organization, based at the School of Public Health, University at Albany, State University of New York (SUNY). The mission of CHWS is to provide timely, accurate data and conduct policy relevant research about the health workforce. The research conducted by CHWS supports and promotes health workforce planning and policymaking at local, regional, state, and national levels. Today, CHWS is a national leader in the field of health workforce studies, and the only one uniquely focused on the oral health workforce.

The views expressed in this report are those of CHWS and do not necessarily represent positions or policies of the School of Public Health, University at Albany, SUNY, or the New York State Department of Health.

August 2015
ACKNOWLEDGMENT

The authors would like to express their appreciation to the GME administrators and directors at participating teaching hospitals for their efforts to ensure a high response rate to the Resident Exit Survey each year. Without their assistance, this important data collection effort would not be possible.

*Suggested citation:*

TABLE OF CONTENTS

BACKGROUND........................................................................................................................................2
KEY FINDINGS........................................................................................................................................4

SPECIALTIES........................................................................................................................................5
  Family Medicine................................................................................................................................6
  General Internal Medicine....................................................................................................................7
  General Pediatrics.................................................................................................................................8
  Internal Medicine and Pediatrics (Combined)....................................................................................9
  Obstetrics/Gynecology.......................................................................................................................10
  Cardiology.........................................................................................................................................11
  Critical Care Medicine.......................................................................................................................12
  Endocrinology and Metabolism..........................................................................................................13
  Gastroenterology...............................................................................................................................14
  Geriatrics...........................................................................................................................................15
  Hematology/Oncology.........................................................................................................................16
  Infectious Disease..............................................................................................................................17
  Nephrology..........................................................................................................................................18
  Pulmonary Disease.............................................................................................................................19
  Rheumatology....................................................................................................................................20
  General Surgery................................................................................................................................21
  Neurosurgery......................................................................................................................................22
  Ophthalmology..................................................................................................................................23
  Orthopedic Surgery............................................................................................................................24
  Otolaryngology...................................................................................................................................25
  Plastic Surgery....................................................................................................................................26
  Cardio-Thoracic Surgery....................................................................................................................27
  Urology................................................................................................................................................28
  Anesthesiology...................................................................................................................................29
  Pain Management...............................................................................................................................30
  Pathology...........................................................................................................................................31
  Radiology...........................................................................................................................................32
  Adult Psychiatry.................................................................................................................................33
  Child and Adolescent Psychiatry........................................................................................................34
  Allergy and Immunology....................................................................................................................35
  Dermatology.......................................................................................................................................36
  Emergency Medicine..........................................................................................................................37
  Neurology............................................................................................................................................38
  Pediatric Subspecialties.......................................................................................................................39
  Physical Medicine and Rehabilitation...............................................................................................40

APPENDIX A.........................................................................................................................................41
APPENDIX B.........................................................................................................................................45
APPENDIX C.........................................................................................................................................47
BACKGROUND

The Center for Health Workforce Studies (CHWS) conducts an annual survey of all physicians completing a residency or fellowship training program in the State of New York (the Resident Exit Survey). The survey instrument (see Appendix B) was developed by CHWS in collaboration with teaching hospitals in New York. The survey provides the medical education community with valuable information on both outcomes of training and demand for new physicians in different specialties.

Each spring, CHWS distributes the surveys to Graduate Medical Education (GME) directors and administrators at teaching hospitals in New York. In most cases, surveys are then forwarded to individual GME departments at each hospital. These departments assume the responsibility of ensuring graduating residents and fellows fill out the surveys in the weeks prior to program completion. The surveys are then returned to CHWS for data entry and analysis.

The year 2014 marked the fifteenth year of the survey. Through excellent collaboration of teaching hospitals throughout the state, an aggregated total of 45,034 of the 73,277 graduates have completed the survey (61% response rate) for the 12 years the survey has been conducted (1998, 1999, 2000, 2001, 2002, 2003, 2005, 2007, 2009, 2010, 2011, 2012, 2013, and 2014). During the last 5 years the survey has had the following annual response rates: 2010 (62%), 2011 (64%), 2012 (61%), 2013 (57%), and 2014 (56%). Many of the questions on the Resident Exit Survey are designed to assess demand for physicians in general and by specialty. In any given year, the Resident Exit Survey provides a snapshot of the physician marketplace at a specific point in time. By conducting the survey on a regular basis, trends may be observed which are useful in projecting future supply and demand.

This data book presents profiles for 35 specialties. Each specialty profile summarizes trends in 5 key areas related to physician supply and demand: starting income, job offers, having to change plans due to limited practice opportunities, relative demand, and numbers of graduates. Data on starting income, job offers, having to change plans, and relative demand are based on responses to the Resident Exit Survey in New York (for the years 2010 to 2014). Data on GME graduates are from the annual medical education issues of the Journal of the American Medical Association (JAMA), and summarize the numbers of residents (or fellows) completing allopathic GME training programs in the specialty in the U.S. from 2004 to 2013. Definitions of the 5 areas are as follows:

- **Starting income:** The median starting income of survey respondents with confirmed plans to enter patient care/clinical practice in the U.S. following completion of their training program. Starting incomes included respondents' base salaries plus their expected incentive/bonus
income. Starting incomes in the years 2010–2013 were adjusted for inflation to reflect 2014 dollars and are reported in $1,000s.

- **Job offers:** The mean number of job offers for employment/practice positions of survey respondents who had actively searched for a practice position, excluding international medical graduates (IMGs) on temporary visas. Respondents with temporary citizenship status were excluded from this analysis because they were much more likely to experience difficulty in finding practice positions due to visa restrictions.

- **Having to change plans due to limited practice opportunities:** The percentage of respondents who had actively searched for a job (excluding IMGs on temporary visas) and who had to change their plans due to limited practice opportunities.

- **Relative demand:** Using several questions pertaining to the job market experiences and perceptions of survey respondents who had actively searched for a practice position (excluding IMGs on temporary visas), a composite score was computed to assign an overall rank (or relative demand score) for each specialty in each year that the survey was conducted. The percentages presented are the percentile rank of the specialty amongst all specialties in a given year. A percentile rank of 100% identifies the specialty highest in demand, and the lowest percentile rank would correspond to the specialty with the lowest relative demand score. Appendix A provides a detailed explanation of the methodology used to assess relative demand.

- **Numbers of graduates of allopathic GME training programs in the U.S.:** The American Medical Association's (AMA) data on the number of residents completing training was compiled to observe how the number of new entrants to the physician marketplace has changed over time.

**Important Note:**

For each specialty, the number of responses by year is listed at the bottom of the page in the report. Care should be taken when interpreting outcomes based on small samples because the measures may fluctuate greatly from year to year.
KEY FINDINGS

Overall, the job market for new physicians continues to be strong. An analysis of trends in variables pertaining to the physician job market revealed that opportunities for physicians entering practice in most specialties have improved or remained stable over the period of time that the Center has been conducting this survey.

In 2014, demand for primary care physicians (generalists) was stronger than the demand for non-primary care physicians (specialists). Historically, resident exit survey data showed that demand for generalists has been lower compared to demand for specialists. However, since 2008 demand for generalist has surpassed demand for specialists. In 2014, primary care physicians received more job offers than specialists and were less likely to have to change plans due to limited practice opportunities.

There are important differences in the job market experiences and assessments for different specialties. Although the overall marketplace appears relatively good for new graduates, there exist important differences in demand for individual specialties. In New York, specialties experiencing the strongest and weakest relative demand were as follows:

- **Strongest relative demand:** adult psychiatry, dermatology, family medicine, general internal medicine, internal medicine and pediatrics (combined), urology, and emergency medicine.

- **Weakest relative demand:** pathology, radiology, cardio-thoracic surgery, plastic surgery, infectious disease, and pediatric subspecialties.

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*Primary care (or generalists) specialties include family medicine, general internal medicine, general pediatrics, and internal medicine and pediatrics (combined).*
Specialties
**Trends in Number of Graduates of Allopathic Family Medicine GME Programs in the U.S.,** **2004 - 2013**

- **2004:** 3,150
- **2005:** 3,157
- **2006:** 3,083
- **2007:** 3,107
- **2008:** 3,068
- **2009:** 3,109
- **2010:** 3,097
- **2011:** 3,188
- **2012:** 3,158
- **2013:** 3,162


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

Specialty: General Internal Medicine


**Source: JAMA Medical Education Issues, 2004 - 2013.

Legend: 2010 2011 2012 2013 2014

Trends in Median Starting Income,* 2010 - 2014
(In $1,000s of 2014 dollars)

Trends in Mean Number of Job Offers Received,* 2010 - 2014

Trends in Having to Change Plans Due to
Limited Practice Opportunities,* 2010 - 2014

Trends in Relative Demand* - Percentile
Rank of General Internal Medicine, 2010 - 2014

Trends in Number of Graduates of Allopathic General Internal Medicine
GME Programs in the U.S.,** 2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: General Pediatrics

**Trends in Number of Graduates of Allopathic General Pediatrics GME Programs in the U.S.,** 2004 - 2013

**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: IM & Peds (Combined)

**Trends in Demand for New Physicians, 2010-2014**


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Obstetrics/Gynecology

Trends in Number of Graduates of Allopathic Obstetrics/Gynecology GME Programs in the U.S., **2004 - 2013

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<td>1,178</td>
<td>1,180</td>
<td>1,219</td>
<td>1,209</td>
</tr>
</tbody>
</table>

**Source: JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

Specialty: Cardiology


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Critical Care Medicine


**Source: JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

Specialty: Endocrinology & Metabolism

**Trends in Demand for New Physicians, 2010-2014**

Specialty: Endocrinology & Metabolism


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Gastroenterology


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Geriatrics

**Trends in Number of Graduates of Allopathic Geriatrics GME Programs in the U.S.,** 2004 - 2013

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<td>288</td>
<td>277</td>
<td>300</td>
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</tbody>
</table>


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Hematology/Oncology

Trends in Number of Graduates of Allopathic Hematology/Oncology GME Programs in the U.S., ** 2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Infectious Disease

Trends in Median Starting Income* 2010 - 2014
(in $1,000s of 2014 dollars)

Trends in Having to Change Plans Due to Limited Practice Opportunities, * 2010 - 2014

Trends in Mean Number of Job Offers Received, * 2010 - 2014

Trends in Relative Demand* - Percentile Rank of Infectious Disease, 2010 - 2014

Trends in Number of Graduates of Allopathic Infectious Disease GME Programs in the U.S., ** 2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
**Specialty: Nephrology**

**Trends in Median Starting Income,** 2010 - 2014
(in $1,000s of 2014 dollars)

**Trends in Mean Number of Job Offers Received,** 2010 - 2014

**Trends in Having to Change Plans Due to Limited Practice Opportunities,** 2010 - 2014

**Trends in Relative Demand** - Percentile Rank of Nephrology, 2010 - 2014

**Trends in Number of Graduates of Allopathic Nephrology GME Programs in the U.S.,** **2004 - 2013**


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Pulmonary Disease

**Trends in Demand for New Physicians, 2010-2014**

- **Specialty:** Pulmonary Disease
- **Source:** CHWS, Survey of Residents Completing Training in New York, 2009 - 2013.
- **Source:** JAMA Medical Education Issues, 2004 - 2013.

### Trends in Number of Graduates of Allopathic Pulmonary Disease GME Programs in the U.S., **2004 - 2013**

- 2004: 388
- 2005: 397
- 2006: 407
- 2007: 422
- 2008: 430
- 2009: 472
- 2010: 441
- 2011: 479
- 2012: 490
- 2013: 516


**Source: JAMA Medical Education Issues, 2004 - 2013.**
Specialty: Rheumatology


**Source: JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

Specialty: General Surgery

Trends in Number of Graduates of Allopathic General Surgery GME Programs in the U.S., **2004 - 2013

Legend: 2010 2011 2012 2013 2014

Trends in Median Starting Income,* 2010 - 2014 (in $1,000s of 2014 dollars)

Trends in Mean Number of Job Offers Received,* 2010 - 2014

Trends in Having to Change Plans Due to Limited Practice Opportunities,* 2010 - 2014

Trends in Relative Demand* - Percentile Rank of General Surgery, 2010 - 2014


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Neurosurgery

Trends in Median Starting Income,* 2010 - 2014 (in $1,000s of 2014 dollars)

Trends in Mean Number of Job Offers Received,* 2010 - 2014

Trends in Having to Change Plans Due to Limited Practice Opportunities,* 2010 - 2014

Trends in Relative Demand* - Percentile Rank of Neurosurgery, 2010 - 2014

Trends in Number of Graduates of Allopathic Neurosurgery GME Programs in the U.S., ** 2004 - 2013

Legend: 2010 2011 2012 2013 2014


**Source: JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

Specialty: Ophthalmology


**Source: JAMA Medical Education Issues, 2004 - 2013.
**Specialty: Orthopedic Surgery**

### Trends in Number of Graduates of Allopathic Orthopedic Surgery GME Programs in the U.S., **2004 - 2013**

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<tbody>
<tr>
<td>832</td>
<td>882</td>
<td>898</td>
<td>925</td>
<td>950</td>
<td>981</td>
<td>1,026</td>
<td>1,063</td>
<td>1,082</td>
<td>1,117</td>
<td></td>
</tr>
</tbody>
</table>


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Otolaryngology

Trends in Demand for New Physicians, 2010-2014


**Source: JAMA Medical Education Issues, 2004 - 2013.
Trends in Number of Graduates of Allopathic Plastic Surgery GME Programs in the U.S., ** 2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
**Specialty: Cardio-Thoracic Surgery**

**Trends in Demand for New Physicians, 2010-2014**

- **Specialty:** Cardio-Thoracic Surgery


**Trends in Number of Graduates of Allopathic Cardio-Thoracic Surgery GME Programs in the U.S.,** 2004 - 2013

**Trends in Median Starting Income, *2010 - 2014* (in $1,000s of 2014 dollars)

**Trends in Mean Number of Job Offers Received, *2010 - 2014**

**Trends in Having to Change Plans Due to Limited Practice Opportunities, *2010 - 2014**

**Trends in Relative Demand* - Percentile Rank of Cardio-Thoracic Surgery, 2010 - 2014**

**Trends in Mean Number of Job Offers Received, *2010 - 2014**


**Trends in Median Starting Income, *2010 - 2014* (in $1,000s of 2014 dollars)**

- 2004: $370
- 2005: $350
- 2006: $325
- 2007: $301
- 2008: $318
- 2009: $305
- 2010: $298
- 2011: $327
- 2012: $297
- 2013: $298
- 2014: $325

**Trends in Having to Change Plans Due to Limited Practice Opportunities, *2010 - 2014**

- 2004: 67%
- 2005: 67%
- 2006: 47%
- 2007: 20%
- 2008: 19%
- 2009: 19%
- 2010: 16%
- 2011: 11%
- 2012: 11%
- 2013: 9%
- 2014: 11%

**Trends in Relative Demand* - Percentile Rank of Cardio-Thoracic Surgery, 2010 - 2014**

- 2010: 53%
- 2011: 50%
- 2012: 51%
- 2013: 51%
- 2014: 40%

**Trends in Number of Graduates of Allopathic Cardio-Thoracic Surgery GME Programs in the U.S.,** 2004 - 2013

- 2004: 133
- 2005: 126
- 2006: 131
- 2007: 124
- 2008: 118
- 2009: 97
- 2010: 85
- 2011: 93
- 2012: 89
- 2013: 92


**Trends in Demand for New Physicians, 2010-2014**
Specialty: Urology

Trends in Median Starting Income,* 2010 - 2014
(in $1,000s of 2014 dollars)

Trends in Mean Number of Job Offers Received,* 2010 - 2014

Trends in Having to Change Plans Due to Limited Practice Opportunities,* 2010 - 2014

Trends in Relative Demand* - Percentile Rank of Urology, 2010 - 2014

Trends in Number of Graduates of Allopathic Urology GME Programs in the U.S., ** 2004 - 2013

**Source: JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

**Specialty: Anesthesiology**


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Pain Management

Trends in Number of Graduates of Allopathic Pain Management GME Programs in the U.S., ** 2004 - 2013

Trends in Median Starting Income,* 2010 - 2014
(in $1,000s of 2014 dollars)

Trends in Mean Number of Job Offers Received,* 2010 - 2014

Trends in Having to Change Plans Due to Limited Practice Opportunities,* 2010 - 2014

Trends in Relative Demand* - Percentile Rank of Pain Management, 2010 - 2014

Trends in Number of Job Offers Received,* 2010 - 2014

Legend: 2010 2011 2012 2013 2014


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Pathology

Trends in Demand for New Physicians, 2010-2014


**Source: JAMA Medical Education Issues, 2004 - 2013.

Trends in Number of Graduates of Allopathic Pathology GME Programs in the U.S., **2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Radiology

**Trends in Median Starting Income, 2010 - 2014** (in $1,000s of 2014 dollars)

<table>
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<th>Year</th>
<th>Radiology</th>
<th>Non-Primary Care</th>
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<tr>
<td>2010</td>
<td>$351</td>
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<tr>
<td>2011</td>
<td>$321</td>
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<td>$325</td>
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<td>2013</td>
<td>$311</td>
<td>$230</td>
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<td>2014</td>
<td>$324</td>
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**Trends in Mean Number of Job Offers Received, 2010 - 2014**

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<th>Year</th>
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<tr>
<td>2010</td>
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**Trends in Having to Change Plans Due to Limited Practice Opportunities, 2010 - 2014**

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<th>Non-Primary Care</th>
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<td>2010</td>
<td>24%</td>
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<td>2011</td>
<td>32%</td>
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<td>2012</td>
<td>41%</td>
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<td>2013</td>
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<tr>
<td>2014</td>
<td>7%</td>
<td>17%</td>
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**Trends in Relative Demand - Percentile Rank of Radiology, 2010 - 2014**

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<td>2010</td>
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<tr>
<td>2014</td>
<td>9%</td>
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**Trends in Number of Graduates of Allopathic Radiology GME Programs in the U.S., 2004 - 2013**


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Adult Psychiatry

Trends in Median Starting Income, *2010 - 2014 (in $1,000s of 2014 dollars)

Trends in Mean Number of Job Offers Received, *2010 - 2014

Trends in Having to Change Plans Due to Limited Practice Opportunities, *2010 - 2014

Trends in Relative Demand* - Percentile Rank of Adult Psychiatry, 2010 - 2014

Trends in Number of Graduates of Allopathic Adult Psychiatry GME Programs in the U.S., **2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Child & Adolescent Psychiatry

Trends in Number of Graduates of Allopathic Child & Adolescent Psychiatry GME Programs in the U.S., **2004 - 2013

Legend: 2010  2011  2012  2013  2014


**Source: JAMA Medical Education Issues, 2004 - 2013.
Specialty: Allergy & Immunology

**Trends in Median Starting Income,* 2010 - 2014**
(in $1,000s of 2014 dollars)

<table>
<thead>
<tr>
<th>Year</th>
<th>Allergy &amp; Immunology</th>
<th>Non-Primary Care</th>
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<td>2014</td>
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**Source:** JAMA Medical Education Issues, 2004 - 2013.

**Trends in Number of Graduates of Allopathic Allergy & Immunology GME Programs in the U.S.,** 2004 - 2013

<table>
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<th>Allergy &amp; Immunology</th>
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**Trends in Relative Demand* - Percentile Rank of Allergy & Immunology, 2010 - 2014**

<table>
<thead>
<tr>
<th>Year</th>
<th>Allergy &amp; Immunology</th>
<th>Non-Primary Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>52%</td>
<td>48%</td>
</tr>
<tr>
<td>2011</td>
<td>49%</td>
<td>49%</td>
</tr>
<tr>
<td>2012</td>
<td>49%</td>
<td>49%</td>
</tr>
<tr>
<td>2013</td>
<td>49%</td>
<td>49%</td>
</tr>
</tbody>
</table>

**Trends in Having to Change Plans Due to Limited Practice Opportunities, * 2010 - 2014**

<table>
<thead>
<tr>
<th>Year</th>
<th>Allergy &amp; Immunology</th>
<th>Non-Primary Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>2011</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>2012</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>2013</td>
<td>30%</td>
<td>30%</td>
</tr>
<tr>
<td>2014</td>
<td>40%</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Trends in Mean Number of Job Offers Received,* 2010 - 2014**

<table>
<thead>
<tr>
<th>Year</th>
<th>Allergy &amp; Immunology</th>
<th>Non-Primary Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>3.2</td>
<td>2.8</td>
</tr>
<tr>
<td>2011</td>
<td>3.3</td>
<td>2.3</td>
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<tr>
<td>2012</td>
<td>3.2</td>
<td>2.2</td>
</tr>
<tr>
<td>2013</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>2014</td>
<td>3.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Specialty: Dermatology

**Trends in Median Starting Income, *2010 - 2014** (in $1,000s of 2014 dollars)

**Trends in Mean Number of Job Offers Received, *2010 - 2014***

**Trends in Having to Change Plans Due to Limited Practice Opportunities, *2010 - 2014***

**Trends in Relative Demand* - Percentile Rank of Dermatology, 2010 - 2014***

**Trends in Number of Graduates of Allopathic Dermatology GME Programs in the U.S., **2004 - 2013**


**Source:** JAMA Medical Education Issues, 2004 - 2013.
Trends in Demand for New Physicians, 2010-2014

Specialty: Emergency Medicine


**Trends in Number of Graduates of Allopathic Emergency Medicine GME Programs in the U.S., **2004 - 2013**


### Trends in Median Starting Income, * 2010 - 2014 (in $1,000s of 2014 dollars)

- Non-Primary Care: $300, $238, $225, $217, $217, $224, $230, $230, $230

### Trends in Mean Number of Job Offers Received, * 2010 - 2014

- Emergency Medicine: 3.7, 3.3, 3.6, 4.0
- Non-Primary Care: 3.2, 3.2, 3.0, 3.0

### Trends in Having to Change Plans Due to Limited Practice Opportunities, * 2010 - 2014

- Emergency Medicine: 5%, 7%, 8%, 6%, 1%
- Non-Primary Care: 20%, 17%, 17%, 17%, 17%

### Trends in Relative Demand* - Percentile Rank of Emergency Medicine, 2010 - 2014

- 2010: 86%, 80%, 83%, 80%
- 2011: 89%, 80%, 83%, 80%
- 2012: 52%, 48%, 49%, 49%
- 2013: 48%, 48%, 49%, 49%
Specialty: Neurology


**Source: JAMA Medical Education Issues, 2004 - 2013.
### Trends in Demand for New Physicians, 2010-2014

**Specialty: Pediatric Subspecialties**

<table>
<thead>
<tr>
<th>Year</th>
<th>Pediatric Subspecialties</th>
<th>Non-Primary Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>$187,349</td>
<td>$165,172</td>
</tr>
<tr>
<td>2011</td>
<td>$178,349</td>
<td>$172,172</td>
</tr>
<tr>
<td>2012</td>
<td>$225,230</td>
<td>$231,234</td>
</tr>
<tr>
<td>2013</td>
<td>$229,230</td>
<td>$231,234</td>
</tr>
<tr>
<td>2014</td>
<td>$231,234</td>
<td>$234,234</td>
</tr>
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</table>


**Source: JAMA Medical Education Issues, 2004 - 2013.

### Trends in Number of Graduates of Allopathic Pediatric Subspecialties GME Programs in the U.S., **2004 - 2013**

<table>
<thead>
<tr>
<th>Year</th>
<th>Pediatric Subspecialties</th>
<th>Non-Primary Care</th>
</tr>
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<td>674</td>
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</tr>
<tr>
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<tr>
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<tr>
<td>2009</td>
<td>891</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>992</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>1,039</td>
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<tr>
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<td>1,078</td>
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<tr>
<td>2013</td>
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</table>

**Legend:**
- 2010
- 2011
- 2012
- 2013
- 2014

### Trends in Median Starting Income,* 2010 - 2014 (in $1,000s of 2014 dollars)

<table>
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<tr>
<th>Year</th>
<th>Pediatric Subspecialties</th>
<th>Non-Primary Care</th>
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<tbody>
<tr>
<td>2004</td>
<td>$187,349</td>
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<td>2005</td>
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<td>2006</td>
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<td>$231,234</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>$234,234</td>
<td></td>
</tr>
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</table>

### Trends in Mean Number of Job Offers Received,* 2010 - 2014

<table>
<thead>
<tr>
<th>Year</th>
<th>Pediatric Subspecialties</th>
<th>Non-Primary Care</th>
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<tbody>
<tr>
<td>2004</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>2005</td>
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<tr>
<td>2008</td>
<td>2.3</td>
<td></td>
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<tr>
<td>2009</td>
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<tr>
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<tr>
<td>2013</td>
<td>3.0</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- 2010
- 2011
- 2012
- 2013
- 2014

### Trends in Having to Change Plans Due to Limited Practice Opportunities,* 2010 - 2014

<table>
<thead>
<tr>
<th>Year</th>
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<tr>
<td>2004</td>
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<tr>
<td>2005</td>
<td>37%</td>
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</tr>
<tr>
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<td>21%</td>
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<tr>
<td>2008</td>
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<td></td>
</tr>
<tr>
<td>2009</td>
<td>17%</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>29%</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>22%</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>17%</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>21%</td>
<td></td>
</tr>
</tbody>
</table>

### Trends in Relative Demand* - Percentile Rank of Pediatric Subspecialties, 2010 - 2014

<table>
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<th>Year</th>
<th>Pediatric Subspecialties</th>
<th>Non-Primary Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>29%</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>22%</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>17%</td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>19%</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>17%</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>29%</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>22%</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>17%</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>21%</td>
<td></td>
</tr>
</tbody>
</table>
Specialty: Physical Medicine & Rehabilitation

**Trends in Median Starting Income,* 2010 - 2014**
(in $1,000s of 2014 dollars)

**Trends in Mean Number of Job Offers Received, * 2010 - 2014**

**Trends in Having to Change Plans Due to Limited Practice Opportunities,* 2010 - 2014**

**Trends in Relative Demand* - Percentile Rank of Physical Medicine & Rehabilitation, 2010 - 2014**

**Trends in Number of Graduates of Allopathic Physical Medicine & Rehabilitation GME Programs in the U.S.,** 2004 - 2013


**Source: JAMA Medical Education Issues, 2004 - 2013.
Appendix A
METHODOLOGY USED TO MEASURE RELATIVE DEMAND

The Resident Exit Survey cannot be used to determine absolute demand for new physicians in different specialties (ie, it cannot be used to determine the number of physicians necessary to serve a given population). However, by analyzing several questions pertaining to job market experiences and perceptions of new physicians and comparing responses over time, in different geographical locations, and between specialties, it is possible to assess whether respondents from certain specialties or in certain locations are finding more or fewer practice opportunities (ie, it measures relative demand).

The implication is that while a specialty, such as pathology, may be in low demand relative to other specialties in an absolute sense, there may still be good opportunities for pathologists, but not as good or as many as another specialist that is seeing higher demand (such as child and adolescent psychiatry). In addition, it is not possible to measure the magnitude of the difference in demand between different specialties. So, if the percentile rank of general internal medicine in New York in 2014 was 91% (ie, general internal medicine had a relative rank equal to or better than 91% of the 35 specialties that were ranked), and the percentile rank of pain management was 40%, this does not imply that demand for general internal medicine was more than twice as strong as for neurology. The scale is only ordinal.

To measure demand for a given year, a composite score was computed by taking the median of the ranks (ie, where each specialty stood relative to all 35 specialties) scored by each specialty on each of the demand indicators for data from the previous 4 years of the survey. Data from more recent years of the survey received a greater weight than data from earlier years. For example, when calculating the demand score for 2014, data from 2014 were weighted .40, data from 2013 were weighted .30, data from 2012 were weighted .20, and data from 2011 were weighted .10. The following variables were used as indicators of demand:

- Percentage of respondents having difficulty finding a satisfactory practice position
- Percentage of respondents having to change plans due to limited practice opportunities
- Mean number of job offers received by respondents
- Respondents’ mean Likert score summarizing their assessment of the regional job market
- Respondents’ mean Likert score summarizing their assessment of the national job market
- Trend (ie, average annual change) in median starting income
None of these indicators used alone will provide a perfect picture of demand. However, considered together, they provide a good picture of relative demand by specialty. There was a high degree of correlation between the “percentage of respondents with difficulty finding a satisfactory practice position” variable and the “percentage of respondents having to change plans due to limited practice opportunities” variable (i.e., a respondent reporting “difficulty...” was much more likely to also report “having to change plans...”). There was also a high degree of correlation between respondents’ assessments of the “regional job market” and the “national job market.” For this reason, the “job offers” variable and the “trends in starting income” variable were each double weighted in computing a composite demand score.

Table 1 summarizes the rank of each specialty (ranked among 35 specialties) on each demand indicator. The variables are:

- **Difficulty**: Rank of each specialty based on the percentage of respondents reporting difficulty finding a satisfactory practice position → eg, the specialty with the lowest percentage of respondents reporting difficulty (emergency medicine) ranked #1 and the specialty with the highest percentage of respondents reporting difficulty (pathology) ranked #35.

- **Change Plans**: Rank of each specialty based on the percentage of respondents that had to change plans due to practice opportunities → eg, the specialty with the lowest percentage of respondents having to change plans (adult psychiatry) ranked #1 and the specialty with the highest percentage of respondents reporting difficulty (pathology) ranked #35.

- **Job Offers**: Rank of each specialty in terms of the mean number of job offers received by respondents (this variable was double weighted in computing the overall demand score) → eg, the specialty with the most job offers (general internal medicine) ranked #1 and the specialty with the fewest job offers (plastic surgery) ranked #35.

- **Regional Market**: Rank of each specialty in terms of the mean Likert score summarizing respondents’ assessments of the regional job market for their specialty → eg, the specialty with the most positive assessment of the regional job market (emergency medicine) ranked #1 and the specialty with the least positive assessment of the regional job market (pathology) ranked #35.

- **National Market**: Rank of each specialty in terms of the mean Likert score summarizing respondents’ assessments of the national job market for their specialty → eg, the specialty with the most positive assessment of the national job market (adult psychology) ranked #1 and the specialty with the least positive assessment of the national job market (pathology) ranked #35.
- **Income Trend**: Rank of each specialty in terms the average annual change (or trend) in median starting income levels of respondents from each specialty. For example, the specialty with the strongest trend in median starting income (general surgery) ranked #1 and the specialty with the weakest trend in median starting income (cardio-thoracic) ranked #35.

### Table 1. Summary of Ranks and Demand Indicators

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>5</td>
<td>17</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>12</td>
<td>5.5</td>
<td>3.0</td>
<td>94%</td>
</tr>
<tr>
<td>General Internal Med</td>
<td>7</td>
<td>9</td>
<td>1</td>
<td>6</td>
<td>4</td>
<td>18</td>
<td>6.5</td>
<td>4.0</td>
<td>91%</td>
</tr>
<tr>
<td>General Pediatrics</td>
<td>9</td>
<td>10</td>
<td>22</td>
<td>11</td>
<td>18</td>
<td>19</td>
<td>18.5</td>
<td>19.0</td>
<td>49%</td>
</tr>
<tr>
<td>IM &amp; Peds (Comb)</td>
<td>13</td>
<td>3</td>
<td>7</td>
<td>13</td>
<td>19</td>
<td>4</td>
<td>7.0</td>
<td>5.0</td>
<td>89%</td>
</tr>
<tr>
<td>Ob/Gyn</td>
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<td>12</td>
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<td>13</td>
<td>33</td>
<td>16.5</td>
<td>17.0</td>
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<tr>
<td>Cardiology</td>
<td>26</td>
<td>27</td>
<td>17</td>
<td>28</td>
<td>29</td>
<td>14</td>
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<td>24.0</td>
<td>34%</td>
</tr>
<tr>
<td>Critical Care Med</td>
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<td>8</td>
<td>4</td>
<td>15</td>
<td>11</td>
<td>29</td>
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<td>8.0</td>
<td>80%</td>
</tr>
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<td>Endocrinology &amp; Met</td>
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<td>16</td>
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<td>14.0</td>
<td>11.0</td>
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<tr>
<td>Gastroenterology</td>
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<td>23</td>
<td>8</td>
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<td>20.0</td>
<td>46%</td>
</tr>
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<td>13</td>
<td>9</td>
<td>16</td>
<td>31</td>
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<td>60%</td>
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<td>30</td>
<td>19</td>
<td>24</td>
<td>25</td>
<td>7</td>
<td>21.5</td>
<td>24.0</td>
<td>34%</td>
</tr>
<tr>
<td>Infectious Disease</td>
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<td>31</td>
<td>32</td>
<td>31</td>
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<td>31.0</td>
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<td>30</td>
<td>22</td>
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<td>26%</td>
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<td>24</td>
<td>5</td>
<td>18</td>
<td>7</td>
<td>10</td>
<td>10.0</td>
<td>9.0</td>
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<tr>
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<td>20.0</td>
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<td>24</td>
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<td>16.0</td>
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<td>23</td>
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<td>22</td>
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<td>18.0</td>
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<td>8</td>
<td>17</td>
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<td>14.0</td>
<td>11.0</td>
<td>71%</td>
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<td>Plastic Surgery</td>
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<td>34</td>
<td>35</td>
<td>30</td>
<td>32</td>
<td>3</td>
<td>32.0</td>
<td>32.0</td>
<td>11%</td>
</tr>
<tr>
<td>Cardio-Thoracic Surg</td>
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<td>20</td>
<td>32</td>
<td>34</td>
<td>34</td>
<td>35</td>
<td>33.0</td>
<td>33.0</td>
<td>9%</td>
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<tr>
<td>Urology</td>
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<td>14</td>
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<td>5.0</td>
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<td>22</td>
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<td>17</td>
<td>26</td>
<td>30</td>
<td>27.0</td>
<td>28.0</td>
<td>23%</td>
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<td>22.0</td>
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<td>9%</td>
</tr>
<tr>
<td>Adult Psychiatry</td>
<td>3</td>
<td>1</td>
<td>6</td>
<td>2</td>
<td>1</td>
<td>21</td>
<td>4.5</td>
<td>1.0</td>
<td>100%</td>
</tr>
<tr>
<td>Child &amp; Adolesc Psych</td>
<td>12</td>
<td>13</td>
<td>12</td>
<td>4</td>
<td>3</td>
<td>25</td>
<td>12.0</td>
<td>10.0</td>
<td>74%</td>
</tr>
<tr>
<td>Allergy &amp; Immun</td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>28</td>
<td>11</td>
<td>27.0</td>
<td>28.0</td>
<td>23%</td>
</tr>
<tr>
<td>Dermatology</td>
<td>6</td>
<td>7</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>5</td>
<td>5.0</td>
<td>2.0</td>
<td>97%</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>1</td>
<td>4</td>
<td>10</td>
<td>1</td>
<td>2</td>
<td>13</td>
<td>7.0</td>
<td>5.0</td>
<td>89%</td>
</tr>
<tr>
<td>Neurology</td>
<td>21</td>
<td>14</td>
<td>26</td>
<td>10</td>
<td>12</td>
<td>15</td>
<td>15.0</td>
<td>14.0</td>
<td>63%</td>
</tr>
<tr>
<td>Pediatric Subspecs</td>
<td>23</td>
<td>28</td>
<td>29</td>
<td>29</td>
<td>27</td>
<td>28</td>
<td>28.0</td>
<td>30.0</td>
<td>17%</td>
</tr>
<tr>
<td>Phys Med &amp; Rehab</td>
<td>20</td>
<td>19</td>
<td>18</td>
<td>20</td>
<td>20</td>
<td>26</td>
<td>20.0</td>
<td>22.0</td>
<td>40%</td>
</tr>
</tbody>
</table>

*a* The job offers variable and the income trend variable were each double weighted in computing the median rank.

*b* The percentile rank is the percentage of all 35 specialties with a median demand rank equal to or lower than each specialty.
Appendix B
## SPECIALTY COMPARISON GROUPS

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Comparison Group&lt;sup&gt;a&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>Primary Care</td>
</tr>
<tr>
<td>General Internal Medicine</td>
<td>Primary Care</td>
</tr>
<tr>
<td>General Pediatrics</td>
<td>Primary Care</td>
</tr>
<tr>
<td>IM &amp; Peds (Combined)</td>
<td>Primary Care</td>
</tr>
<tr>
<td>Obstetrics/Gynecology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Cardiology</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Critical Care Medicine</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Endocrinology &amp; Metabolism</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Geriatrics</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Hematology/Oncology</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Infectious Disease</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Nephrology</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Pulmonary Disease</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>Medicine Subspecialties</td>
</tr>
<tr>
<td>General Surgery</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Otolaryngology</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Plastic Surgery</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Cardio-Thoracic Surgery</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Urology</td>
<td>Surgical Subspecialties</td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Pain Management</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Pathology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Radiology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Adult Psychiatry</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Child &amp; Adolescent Psychiatry</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Allergy &amp; Immunology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Dermatology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Neurology</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Pediatric Subspecialties</td>
<td>Non-Primary Care</td>
</tr>
<tr>
<td>Physical Medicine &amp; Rehabilitation</td>
<td>Non-Primary Care</td>
</tr>
</tbody>
</table>

<sup>a</sup> In each specialty profile, statistics for the specialty are presented next to the average of all specialties in the group to which the specialty belongs (i.e., the comparison group). As an example, the starting median of family practice is compared to the median starting income of all primary care. Likewise, the relative demand (or percentile rank) of cardiology is compared against the average percentile rank of all medicine subspecialties.
Appendix C
# Survey of Residents Completing Training in NY in 2014

Center for Health Workforce Studies  
University at Albany, School of Public Health  
1 University Place / Suite 220  
Rensselaer, NY 12144-3445

<table>
<thead>
<tr>
<th>ACGME Residency Program #</th>
<th>For Office Use</th>
</tr>
</thead>
</table>

This questionnaire should be completed by all physicians completing a residency/fellowship training program in New York in 2014 (excluding preliminary training positions).

## A. BACKGROUND

1. **Gender:**  
   - [ ] Male  
   - [ ] Female

2. **Age:**

3. **Citizenship Status:**  
   - [ ] Native born U.S.  
   - [ ] Naturalized U.S.  
   - [ ] Permanent resident  
   - [ ] H-1, H-2, H-3 Temporary worker  
   - [ ] J-1, J-2 Exchange visitor

4. **A. Are you of Hispanic/Latino origin?**  
   - [ ] Yes  
   - [ ] No

B. **What is your race? (mark all that apply):**  
   - [ ] American Indian/Alaska Native  
   - [ ] Asian or Pacific Islander  
   - [ ] Black/African American  
   - [ ] White  
   - [ ] Other

5. **A. Which best describes your current relationship status?**  
   - [ ] Now Married  
   - [ ] In Long-term Relationship  
   - [ ] Divorce/Separated (Skip to 6)  
   - [ ] Never Married/Single (Skip to 6)  

B. **If currently married or in a long-term relationship, is your partner also a physician?**  
   - [ ] Yes  
   - [ ] No  
   - [ ] Question does not apply

6. **Do you have any dependent children?**  
   - [ ] Yes  
   - [ ] No

7. **Where did you live when you graduated from high school?**  
   - [ ] New York  
   - [ ] Other U.S.  
   - [ ] Canada  
   - [ ] Other country

## B. MEDICAL EDUCATION AND TRAINING

8. **At the end of your current year of training, how many total years of post-graduate training will you have completed in the U.S.?**  
   - [ ] 1  
   - [ ] 2  
   - [ ] 3  
   - [ ] 4  
   - [ ] 5  
   - [ ] 6 or more

9. **Type of Medical Education:**  
   - [ ] Allopathic (M.D.)  
   - [ ] Osteopathic (D.O.)

10. **Medical School Attended:**  
    - [ ] New York (if yes, complete below)  
    - [ ] Canada  
    - [ ] Other state in the U.S.  
    - [ ] Other country  
    - Specify if in NY:
      - [ ] Albany Medical College  
      - [ ] Albert Einstein Col of Med of Yeshiva Univ  
      - [ ] Columbia University Col of Phys and Surg  
      - [ ] Mt. Sinai School of Medicine  
      - [ ] New York College of Osteo Med of NYIT  
      - [ ] New York Medical College (Valhalla)  
      - [ ] New York University Sch of Med  
      - [ ] Stony Brook Univ Med Ctr Sch of Med  
      - [ ] SUNY Buffalo Sch of Medc & Biomed Sci  
      - [ ] SUNY Downstate Med Ctr Col of Med  
      - [ ] Touro College of Osteopathic Med  
      - [ ] University of Rochester  
      - [ ] Upstate Medical University, SUNY  
      - [ ] Weill Cornell Medical College

11. **What is your current level of educational debt?**  
    - [ ] None  
    - [ ] Less than $5,000  
    - [ ] $5,000–$49,999  
    - [ ] $50,000–$74,999  
    - [ ] $75,000–$99,999  
    - [ ] $100,000–$124,999  
    - [ ] $125,000–$149,999  
    - [ ] $150,000–$174,999  
    - [ ] $175,000–$199,999  
    - [ ] $200,000–$224,999  
    - [ ] $225,000–$249,999  
    - [ ] $250,000–$274,999  
    - [ ] $275,000–$299,999  
    - [ ] $300,000 and over

**For each question mark only one answer unless otherwise directed.**
12. Specialty you are COMPLETING in 2014 (select only one)
   ○ Allergy and Immunology
   ○ Anesthesiology (General)
   ○ Anesthesiology-Pain Management
   ○ Other Anesthesiology Subspecialty—specify: ____________
   ○ Dermatology
   ○ Emergency Medicine
   ○ Family Medicine
   ○ Internal Medicine (General)
   ○ Cardiology
   ○ Critical Care Medicine
   ○ Endocrinology and Metabolism
   ○ Gastroenterology
   ○ Geriatrics
   ○ Hematology/Oncology
   ○ Infectious Disease
   ○ Nephrology
   ○ Pulmonary Disease/CCM
   ○ Rheumatology
   ○ Other Internal Medicine Subspecialty—specify: ____________
   ○ Internal Medicine and Pediatrics (Combined)
   ○ Neurology
   ○ Nuclear Medicine
   ○ Obstetrics and Gynecology (General)
   ○ Obstetrics and Gynecology (Subspeciality)—specify: ________
   ○ Pathology (General)
   ○ Pathology (Subspecialty)—specify: ____________
   ○ Pediatrics (General)
   ○ Pediatrics (Subspecialty)—specify: ____________
   ○ Physical Medicine and Rehabilitation
   ○ Preventive Medicine/Public Health/Occupational Medicine
   ○ Psychiatry
   ○ Child and Adolescent Psychiatry
   ○ Other Psychiatry Subspecialty—specify: ____________
   ○ Radiology (Diagnostic)
   ○ Radiology (Therapeutic)
   ○ Surgery (General)
   ○ Cardio-Thoracic Surgery
   ○ Neurological Surgery
   ○ Ophthalmology
   ○ Orthopedic Surgery
   ○ Otolaryngology
   ○ Plastic Surgery
   ○ Urology
   ○ Other Surgical Subspecialty—specify: ____________
   ○ Other—specify: ____________

13. What do you expect to be doing after completion of your current training program?
   Primary Activity (mark only one)
   ○ Patient care/clinical practice (in non-training position)
   ○ Additional subspecialty training or fellowship
     (specify specialty): ____________
   ○ Chief resident
   ○ Teaching/research (in non-training position)
   ○ Temporarily out of medicine
   ○ Other (specify): ____________
   ○ Undecided/don’t know yet

14. If you are going on for additional training/fellowship, please answer the following:
   A. Why are you subspecializing/continuing training? (mark all that apply)
      ○ To further your medical education
      ○ Unable to find a job you are happy with
      ○ Unable to find any job
      ○ To stay in the U.S. (i.e., due to visa status)
      ○ Other (specify):
      ○ Always intended to subspecialize
      ○ Question does not apply

   B. If you are leaving NY to continue your training, do you plan to return to NY to practice when your training is complete?
      ○ Yes ○ Don’t know yet
      ○ No ○ Question does not apply

15. In your upcoming position, how many hours per week do you expect to spend in each of the following activities?

<table>
<thead>
<tr>
<th>Activity</th>
<th>None</th>
<th>1-9</th>
<th>10-19</th>
<th>20-29</th>
<th>30-39</th>
<th>40-49</th>
<th>50-59</th>
<th>60+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct patient care</td>
<td></td>
<td></td>
<td>✘</td>
<td>✘</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✘</td>
</tr>
<tr>
<td>Teaching</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volunteering/Community service</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16. Where is the location of your primary activity after completing your current training position?
   ○ Same city/county as current training
   ○ Same region within NY, but different city/county
   ○ Other area within NY
   ○ Other state
   ○ Outside the U.S.
   ○ Don’t know yet

17. Do you have an obligation or visa requirement to work in a federally designated Health Professional Shortage Area?
   ○ Yes ○ No
18. How important is it for you to have control over the following job characteristics:

<table>
<thead>
<tr>
<th></th>
<th>Not important at all</th>
<th>Of little importance</th>
<th>Important</th>
<th>Very important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predictable start and end time each workday</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Length of each workday</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Frequency of overnight calls</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Frequency of weekend duties</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

19. If you are planning to enter or have considered entering patient care/clinical practice:

A. Have you actively searched for a job?
   ○ Yes
   ○ No, not yet
   ○ No, I will be self-employed

B. Have you been offered a job?
   ○ Yes, and I have accepted an offer
   ○ Yes, but I declined the offer(s) and am still searching (Skip to Question 27)
   ○ No, but I have not actively searched yet (Skip to Question 27)
   ○ No, I have not yet been offered a practice position (Skip to Question 27)

20. Which best describes the type of patient care practice you will be entering?

<table>
<thead>
<tr>
<th>Principal Practice Setting (mark only one)</th>
<th>Secondary Practice Setting(s) (mark all that apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>▼</td>
</tr>
<tr>
<td></td>
<td>▼</td>
</tr>
<tr>
<td></td>
<td>▼</td>
</tr>
<tr>
<td></td>
<td>▼</td>
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<td>▼</td>
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<td>▼</td>
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<td>▼</td>
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<td></td>
<td>▼</td>
</tr>
<tr>
<td></td>
<td>▼</td>
</tr>
<tr>
<td></td>
<td>▼</td>
</tr>
</tbody>
</table>

D. PRACTICE PLANS

If you have accepted a position in patient care/clinical practice please answer the following questions, if not, skip to Question 27.

21. A. What is the zip code of the principal practice address where you will be working? If zip code is unknown, please give city or town and state.

B. Is this principal practice address located in a federally designed Health Professional Shortage Area?
   ○ Yes
   ○ No
   ○ I don’t know

C. If you are not going to practice in New York, please indicate the reasons why. In the first column, indicate all of the reasons why (mark all that apply). In the second column, indicate the main reason why (mark only one).

<table>
<thead>
<tr>
<th>Practice Reasons</th>
<th>All Reasons (mark all that apply)</th>
<th>Main Reason (mark only one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall lack of jobs/practice opportunities in New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Better jobs/practice opportunities in desired locations outside New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Better jobs/practice opportunities in desired practice setting (e.g., hospital, group practice, etc.) outside New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Better jobs/practice opportunities outside New York that meet visa status requirements</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Financial Reasons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Better salary/compensation offered outside New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Cost of malpractice insurance in New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Cost of establishing a medical practice in New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Taxes in New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Cost of living in New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Personal Reasons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proximity to family</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Better employment opportunities for spouse/partner outside New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Climate (e.g., weather)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Other Reasons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never intended to practice in New York</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Other reason:</td>
<td></td>
<td>○</td>
</tr>
</tbody>
</table>

continue...
22. How many years do you expect to be at your principal practice?
   ○ 1  ○ 2  ○ 3  ○ 4  ○ 5 or more

23. Which best describes the demographics of the area in which you will be practicing?
   ○ Inner city
   ○ Other area within major city
   ○ Suburban
   ○ Small city (population less than 50,000)
   ○ Rural

24. A. Please identify all of the incentives you received for accepting this practice position (mark all that apply). Also, please indicate the most influential incentive in your decision to accept this practice position (mark only one).

<table>
<thead>
<tr>
<th>Incentives Received</th>
<th>Most Influential Incentive</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-1 visa sponsorship</td>
<td>○</td>
</tr>
<tr>
<td>J-1 visa waiver</td>
<td>○</td>
</tr>
<tr>
<td>Sign-on bonus</td>
<td>○</td>
</tr>
<tr>
<td>Income guarantees</td>
<td>○</td>
</tr>
<tr>
<td>On-call payments</td>
<td>○</td>
</tr>
<tr>
<td>Relocation allowances</td>
<td>○</td>
</tr>
<tr>
<td>Spouse/Partner job transition assistance</td>
<td>○</td>
</tr>
<tr>
<td>Support for maintenance of certification and continuing medical education</td>
<td>○</td>
</tr>
<tr>
<td>Career development opportunities</td>
<td>○</td>
</tr>
<tr>
<td>Educational loan repayment</td>
<td>○</td>
</tr>
<tr>
<td>Other, specify: ___________________</td>
<td>○</td>
</tr>
<tr>
<td>None</td>
<td>○</td>
</tr>
</tbody>
</table>

B. If you received any incentives, how important were they in your decision to accept this practice position?
   ○ Not at all important  ○ Important
   ○ Of little importance  ○ Very important

25. Expected gross income during first year of practice:

A. Base Salary/Income
   ○ Less than $75,000
   ○ $75,000–$99,999
   ○ $100,000–$149,999
   ○ $125,000–$149,999
   ○ $150,000–$174,999
   ○ $175,000–$199,999
   ○ $200,000–$249,999
   ○ $250,000–$299,999
   ○ $300,000–$349,999
   ○ $350,000–$374,999
   ○ $375,000 and over

B. Anticipated Additional Incentive Income
   ○ None
   ○ Less than $5,000
   ○ $5,000–$9,999
   ○ $10,000–$14,999
   ○ $15,000–$19,999
   ○ $20,000–$24,999
   ○ $25,000–$29,999
   ○ $30,000–$34,999
   ○ $35,000–$39,999
   ○ $40,000–$44,999
   ○ $45,000–$49,999
   ○ $50,000–$54,999
   ○ $55,000–$59,999
   ○ $60,000 and over

26. What is your level of satisfaction with your salary/compensation?
   ○ Very dissatisfied  ○ Somewhat satisfied
   ○ Somewhat dissatisfied  ○ Very satisfied

27. A. Did you have difficulty finding a practice position you were satisfied with?
   ○ Yes  ○ No  ○ Haven’t looked yet  (Skip to Question #30)

B. If Yes, what would you say was the main reason? (mark only one)
   ○ Overall lack of jobs/practice opportunities
   ○ Lack of jobs/practice opportunities that meet visa status requirements
   ○ Lack of jobs/practice opportunities in desired locations
   ○ Lack of jobs/practice opportunities in desired practice setting (e.g., hospital, group practice, etc.)
   ○ Inadequate salary/compensation offered
   ○ Lack of employment opportunities for spouse/partner
   ○ Other (specify): ____________________________

28. Did you have to change your plans because of limited practice opportunities?
   ○ Yes  ○ No  ○ Haven’t looked yet  (Skip to Question #30)

29. How many offers for practice positions did you receive (excluding fellowships, chief residency, and other training positions)?
   ○ None  ○ 1  ○ 2  ○ 3  ○ 4  ○ 5  ○ 6–10  ○ Over 10

30. What is your overall assessment of practice opportunities in your specialty, and within 50 miles of the site where you trained?
   ○ No jobs  ○ Some jobs
   ○ Very few jobs  ○ Many jobs
   ○ Few jobs  ○ Unknown

31. What is your overall assessment of practice opportunities in your specialty nationally?
   ○ No jobs  ○ Some jobs
   ○ Very few jobs  ○ Many jobs
   ○ Few jobs  ○ Unknown

THANK YOU FOR COMPLETING THIS IMPORTANT SURVEY.