# Trends in Demand for New Physicians, 2009-2013

# A Summary of Demand Indicators for 35 Physician Specialties



The New York Health Workforce Data System
The Center for Health Workforce Studies

School of Public Health
University at Albany, State University of New York



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November 2014

#### **Center for Health Workforce Studies**

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#### **ACKNOWLEDGEMENTS**

This report was prepared by David P. Armstrong, Rakkoo Chung and Gaetano J. Forte of the Center for Health Workforce Studies. Funding for the 2013 Resident Exit Survey and analysis was provided by the New York State Department of Health. The Center would like to express its 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.

#### **BACKGROUND**

The Center for Health Workforce Studies 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 the Center 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, the Center 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 the Center for data entry and analysis.

The year 2013 marked the fourteenth year of the survey. Through excellent collaboration of teaching hospitals throughout the state, an aggregated total of 42,083 of the 68,002 graduates have completed the survey (62% response rate) for the eleven years the survey has been conducted (1998, 1999, 2000, 2001, 2002, 2003, 2005, 2007, 2008, 2009, 2010, 2011, 2012 and 2013). 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 five 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 2009 to 2013). 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 2003 to 2012. Definitions of the five areas are as follows:

<u>Starting income</u>: 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 were adjusted for inflation to reflect 2013 dollars and are reported in \$1,000s.

<u>Job offers</u>: 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.

<u>Having to change plans due to limited practice opportunities</u>: 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.

<u>Numbers of graduates of allopathic GME training programs in the U.S.</u>: 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.

#### **KEY FINDINGS**

*Overall, the job market for new physicians continues to be good.* 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 2013, 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. Over the past few years, however, demand for generalist has surpassed demand for specialists. In 2013, 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:

<u>Strongest relative demand</u>: family medicine, urology, dermatology, internal medicine and pediatrics (combined), general internal medicine, otolaryngology and general surgery

<u>Weakest relative demand</u>: pathology, plastic surgery, radiology, cardio-thoracic surgery, infectious disease, allergy and immunology, pediatric subspecialties and cardiology

\* Primary care (or generalists) specialties include family medicine, general internal medicine, general pediatrics, and internal medicine and pediatrics (combined).

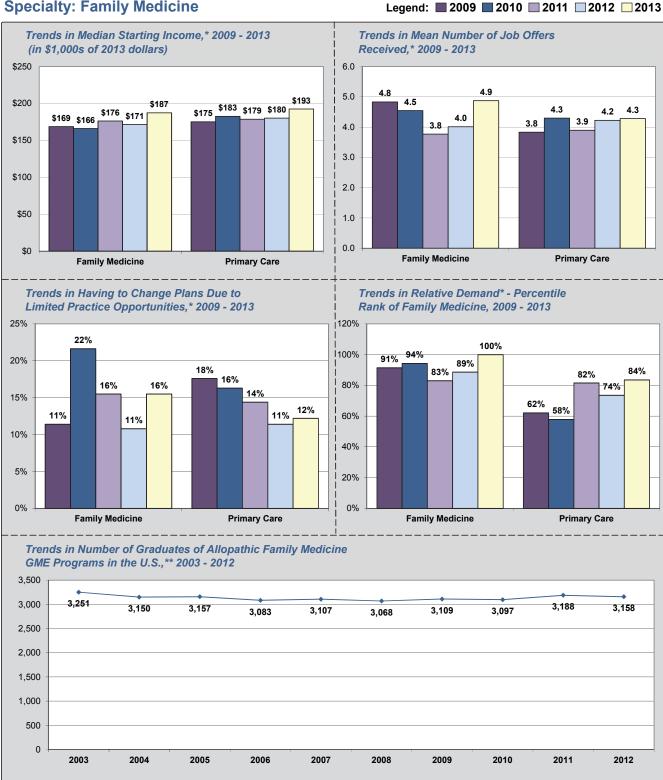
# **IMPORTANT NOTE**

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.

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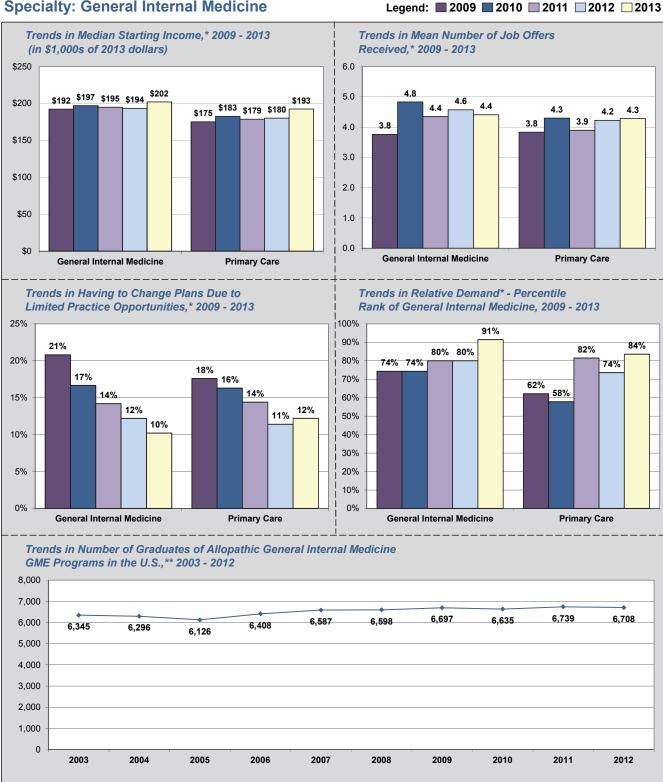
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#### **Specialty: Family Medicine**



Number of responses: 2009: n = 80, 2010: n = 83, 2011: n = 74, 2012: n = 76, 2013: n = 72. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

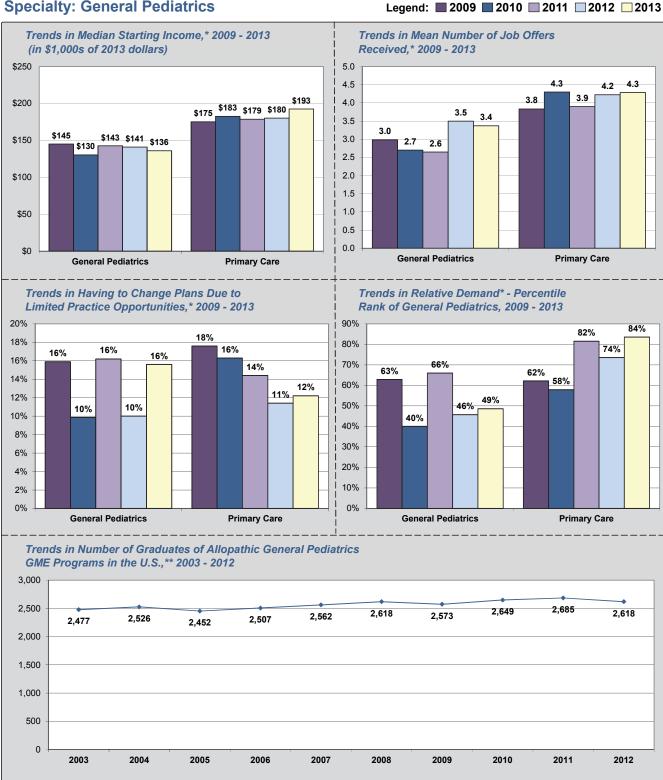
# **Specialty: General Internal Medicine**



Number of responses: 2009: n = 204, 2010: n = 215, 2011: n = 254, 2012: n = 222, 2013: n = 237.

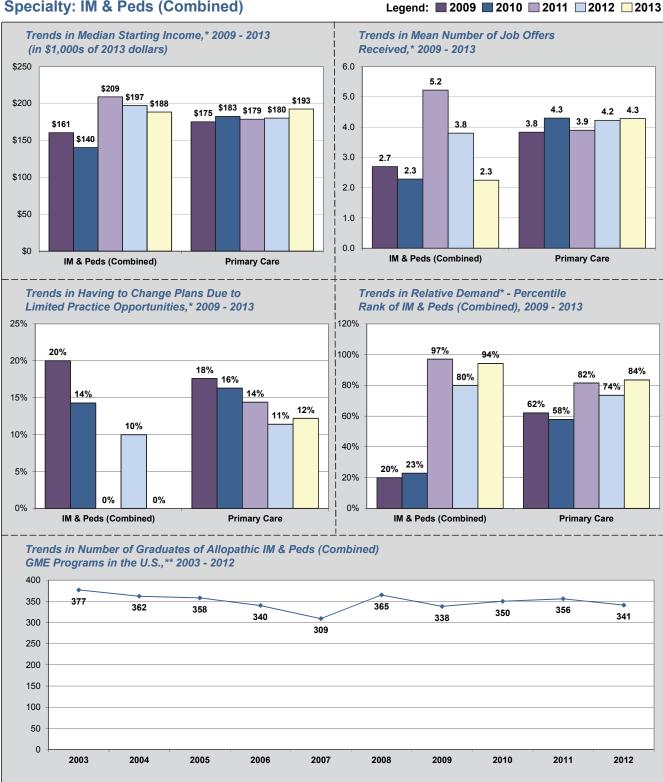
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: General Pediatrics**



Number of responses: 2009: n = 76, 2010: n = 86, 2011: n = 90, 2012: n = 79, 2013: n = 84. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: IM & Peds (Combined)**



Number of responses: 2009: n = 10, 2010: n = 9, 2011: n = 10, 2012: n = 10, 2013: n = 5.

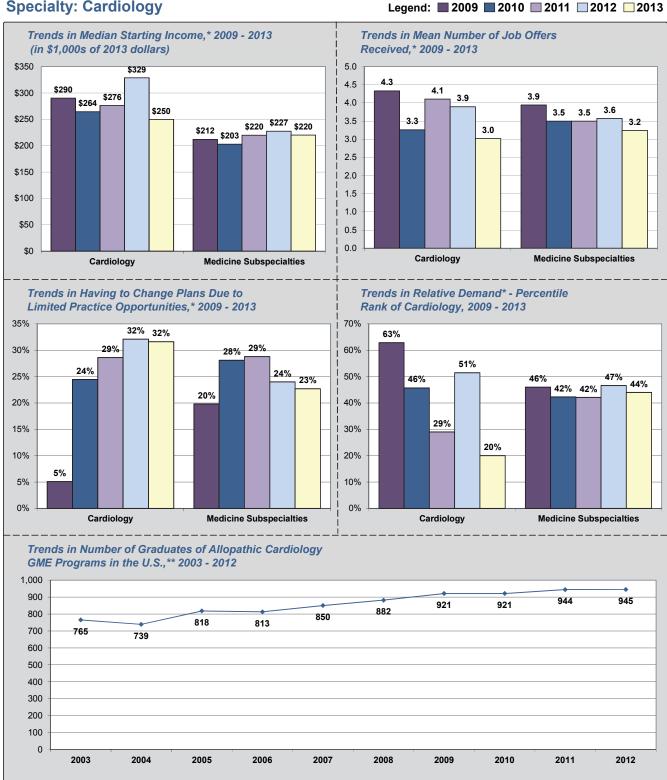
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Obstetrics/Gynecology**



Number of responses: 2009: n = 54, 2010: n = 94, 2011: n = 77, 2012: n = 82, 2013: n = 67. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

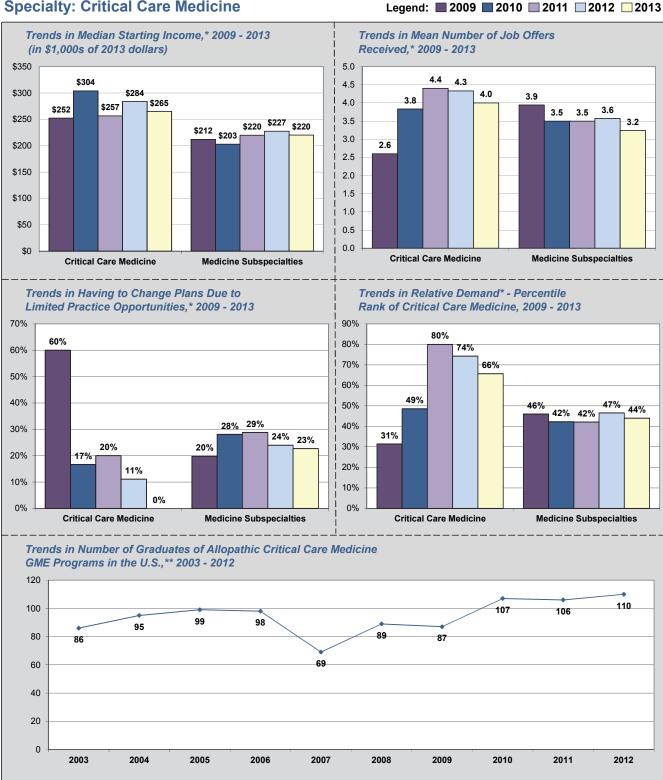
# **Specialty: Cardiology**



Number of responses: 2009: n = 63, 2010: n = 48, 2011: n = 58, 2012: n = 61, 2013: n = 61.

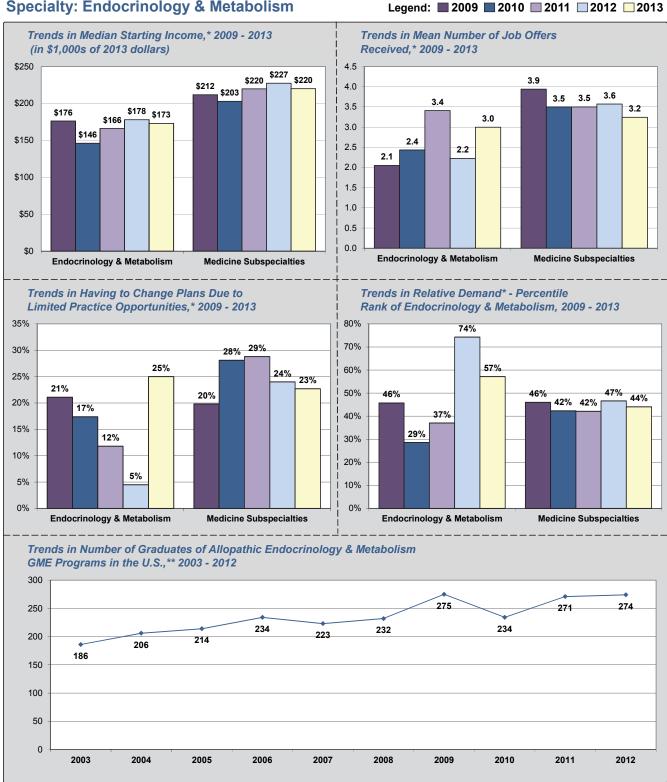
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Critical Care Medicine**



Number of responses: 2009: n = 5, 2010: n = 7, 2011: n = 11, 2012: n = 9, 2013: n = 12. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

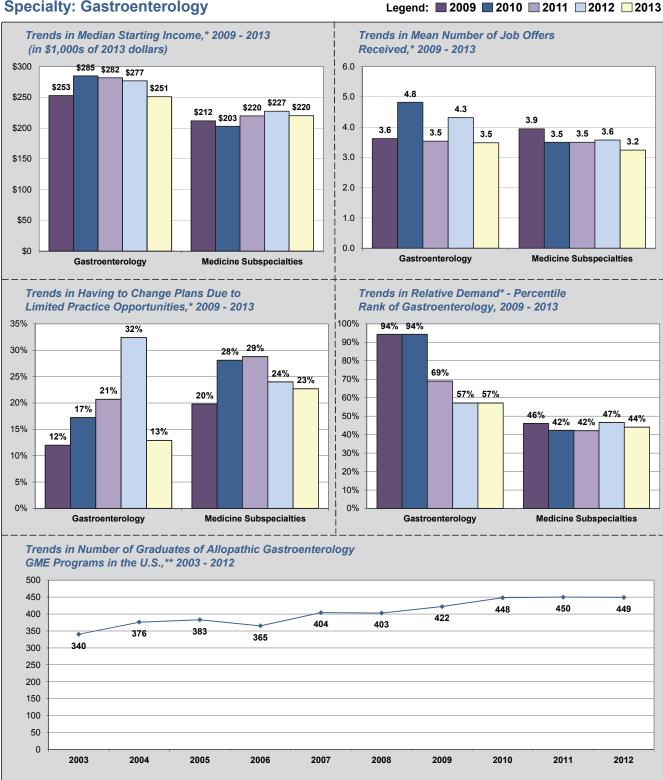
#### Specialty: Endocrinology & Metabolism



Number of responses: 2009: n = 20, 2010: n = 23, 2011: n = 18, 2012: n = 23, 2013: n = 17.

<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. 
\*\*Source: JAMA Medical Education Issues, 2003 - 2012.

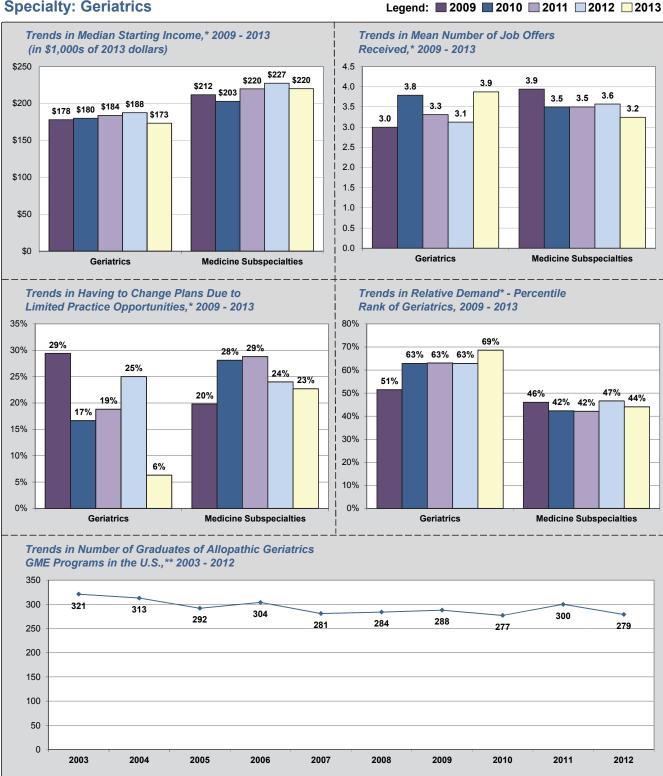
#### **Specialty: Gastroenterology**



Number of responses: 2009: n = 25, 2010: n = 30, 2011: n = 31, 2012: n = 36, 2013: n = 33.

<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. 
\*\*Source: JAMA Medical Education Issues, 2003 - 2012.

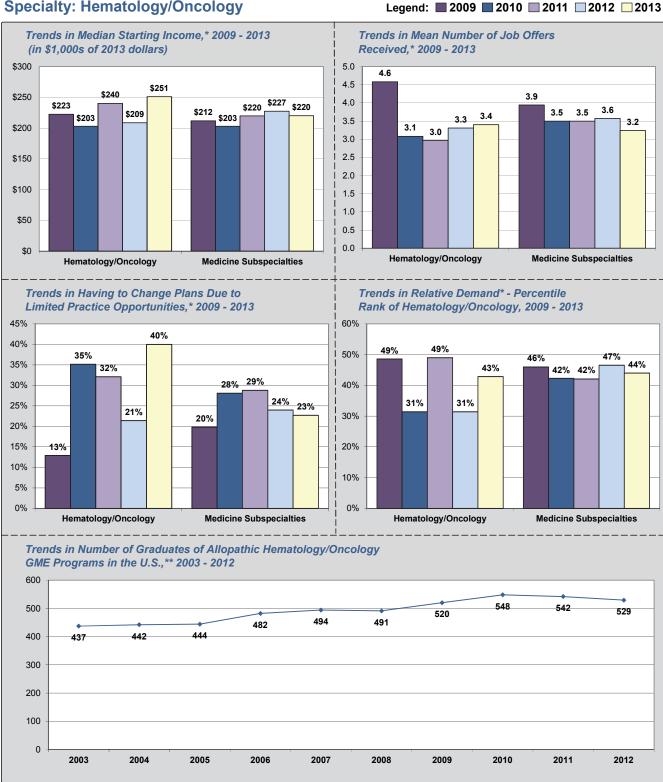
#### **Specialty: Geriatrics**



Number of responses: 2009: n = 17, 2010: n = 19, 2011: n = 19, 2012: n = 9, 2013: n = 17.

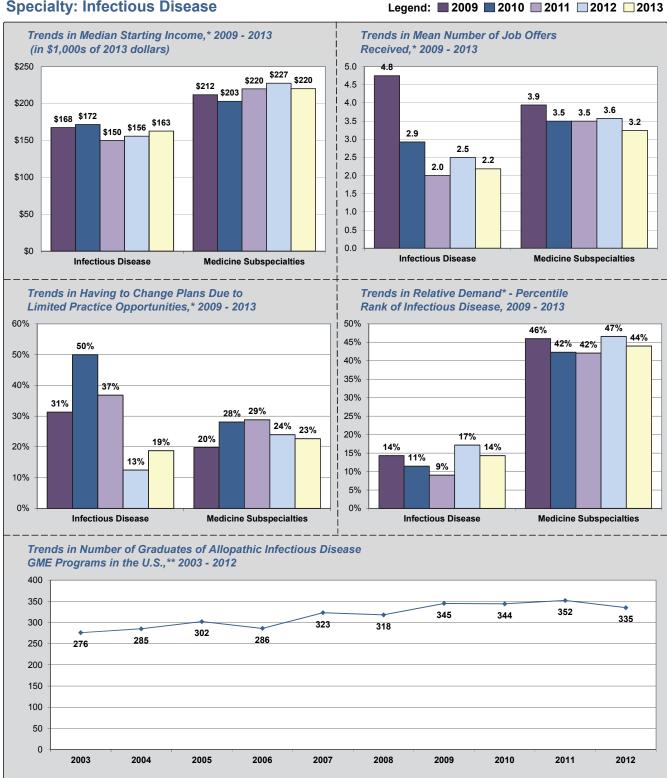
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Hematology/Oncology**



Number of responses: 2009: n = 31, 2010: n = 38, 2011: n = 30, 2012: n = 34, 2013: n = 26. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Infectious Disease**



Number of responses: 2009: n = 16, 2010: n = 15, 2011: n = 21, 2012: n = 17, 2013: n = 17.

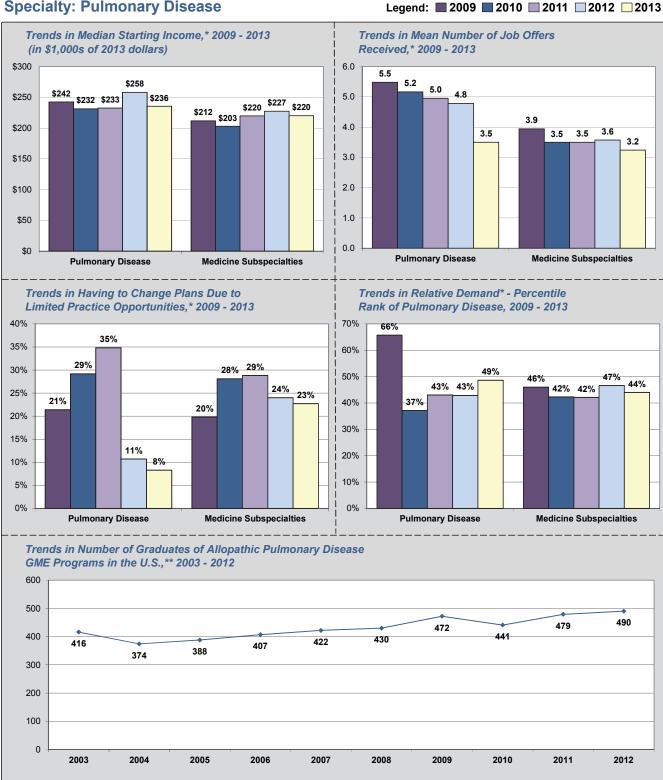
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Nephrology**



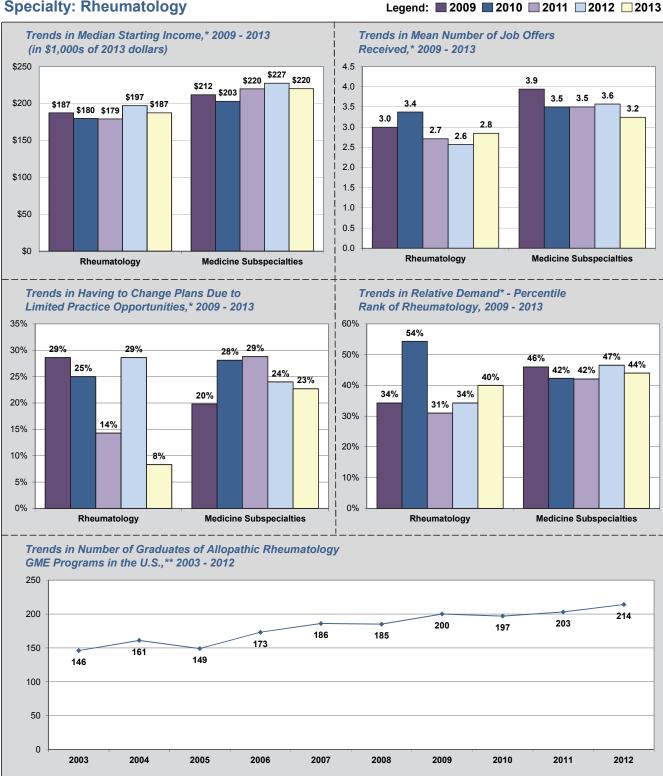
Number of responses: 2009: n = 21, 2010: n = 25, 2011: n = 32, 2012: n = 27, 2013: n = 10. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Pulmonary Disease**



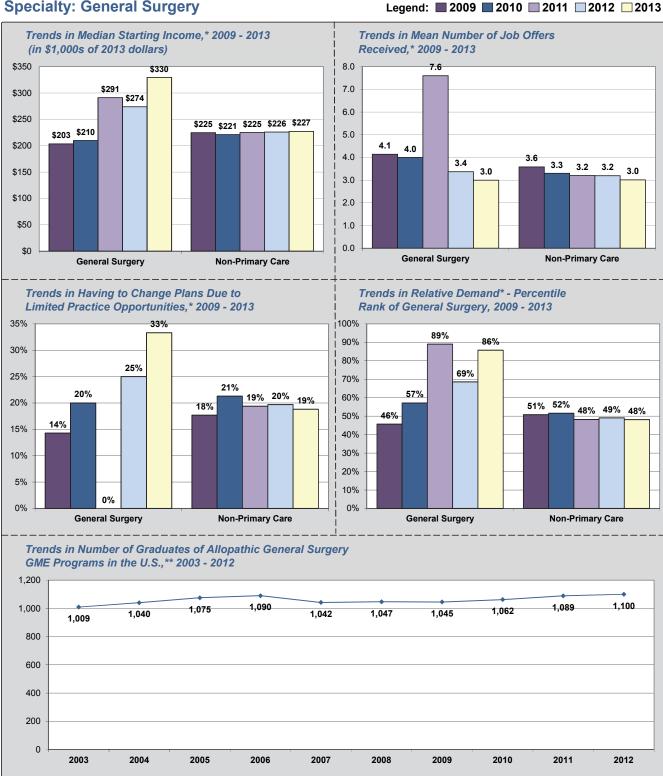
Number of responses: 2009: n = 30, 2010: n = 25, 2011: n = 25, 2012: n = 30, 2013: n = 25. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

## **Specialty: Rheumatology**



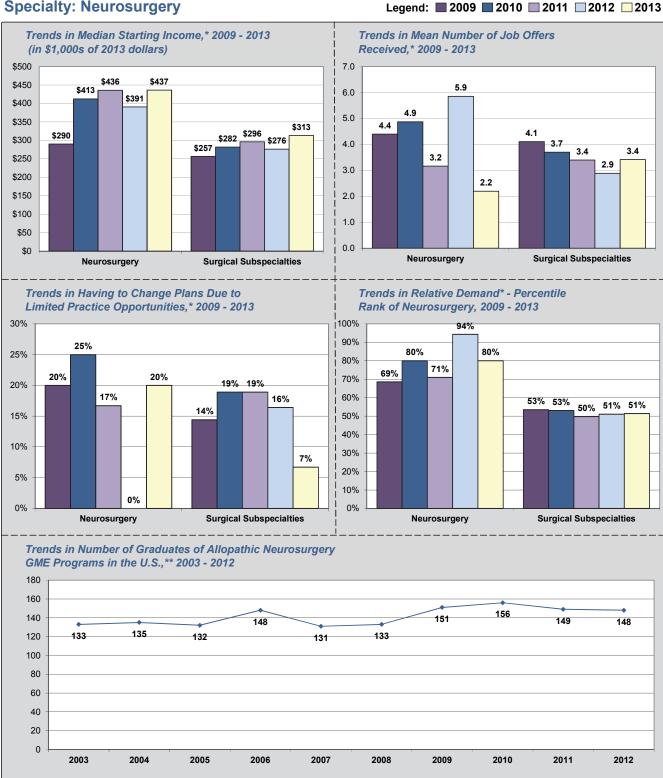
Number of responses: 2009: n = 7, 2010: n = 8, 2011: n = 7, 2012: n = 8, 2013: n = 13. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: General Surgery**



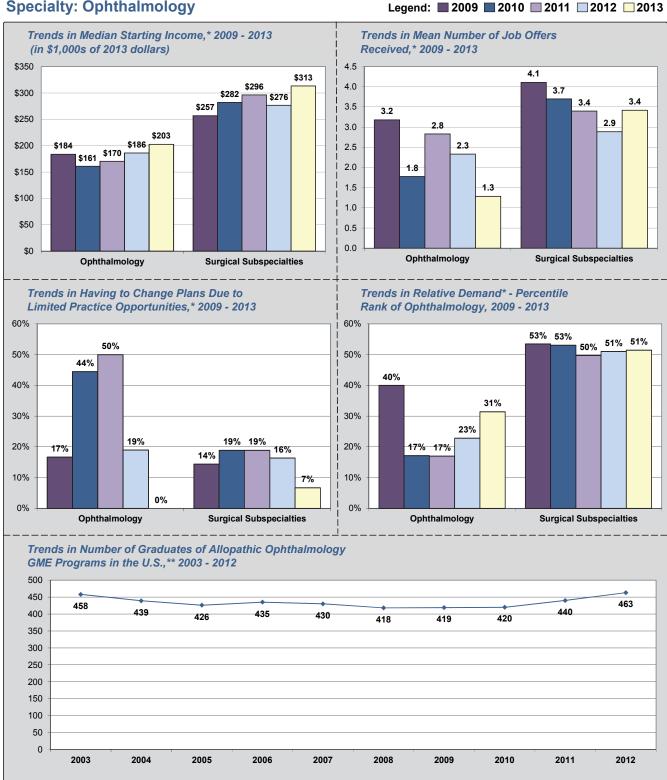
Number of responses: 2009: n = 16, 2010: n = 12, 2011: n = 8, 2012: n = 9, 2013: n = 9. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

## **Specialty: Neurosurgery**



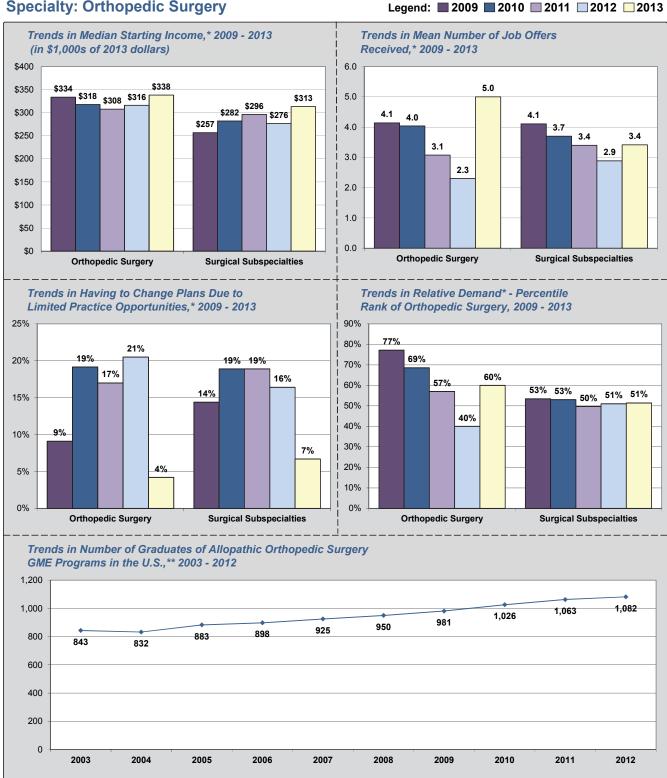
Number of responses: 2009: n = 5, 2010: n = 8, 2011: n = 6, 2012: n = 7, 2013: n = 6. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Ophthalmology**



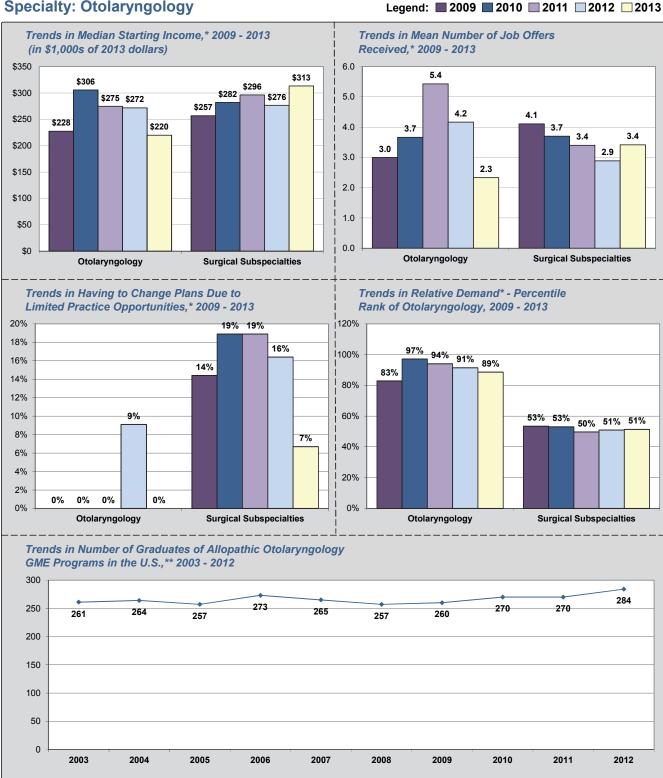
Number of responses: 2009: n = 13, 2010: n = 9, 2011: n = 12, 2012: n = 23, 2013: n = 9. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Orthopedic Surgery**



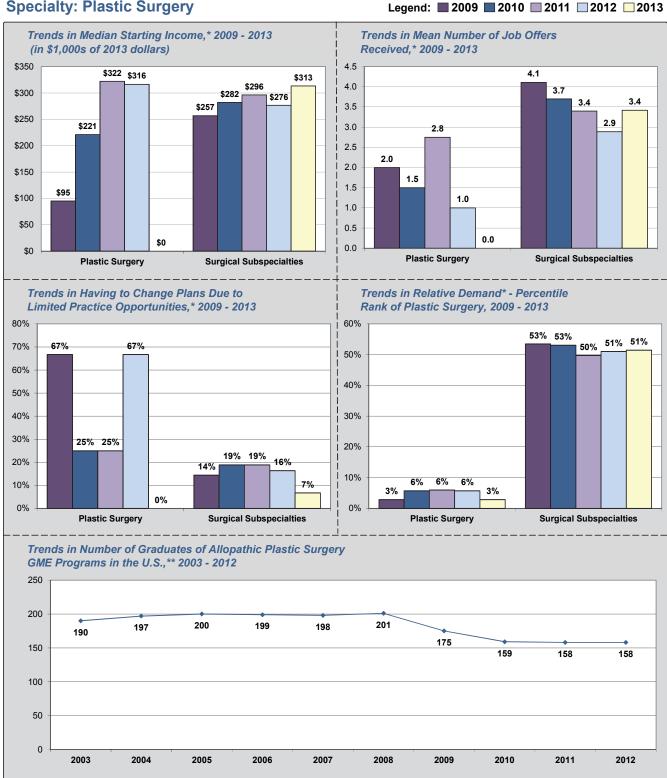
Number of responses: 2009: n = 47, 2010: n = 47, 2011: n = 51, 2012: n = 42, 2013: n = 24. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Otolaryngology**



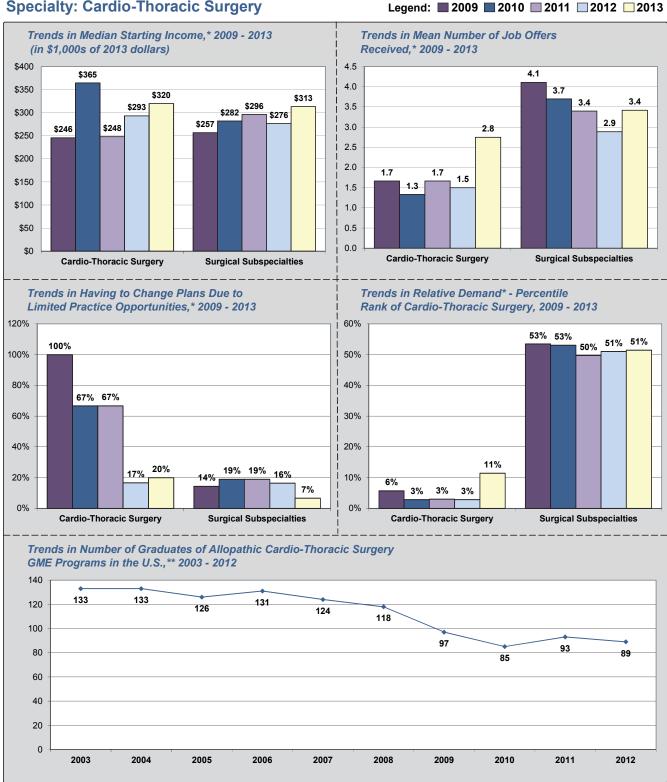
Number of responses: 2009: n = 11, 2010: n = 6, 2011: n = 7, 2012: n = 13, 2013: n = 9. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Plastic Surgery**



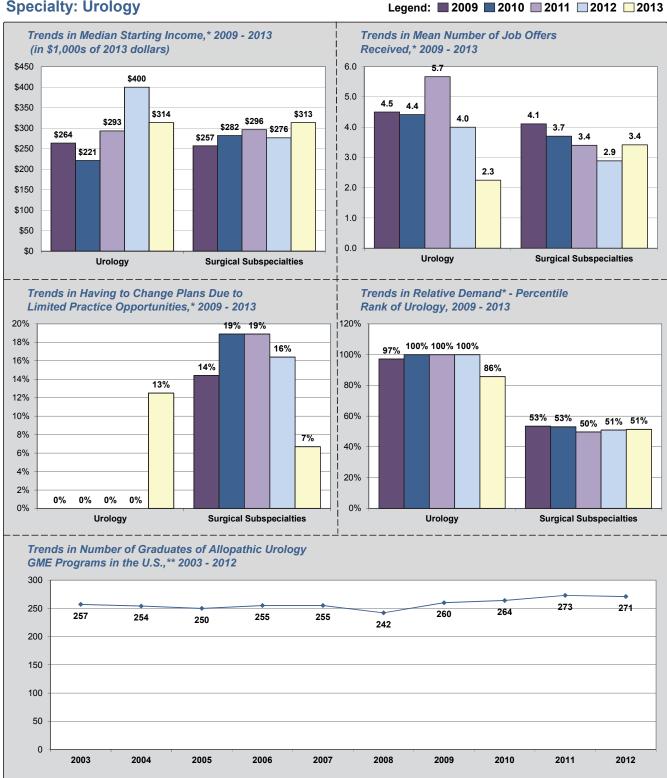
Number of responses: 2009: n = 4, 2010: n = 4, 2011: n = 7, 2012: n = 3, 2013: n = 1. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Cardio-Thoracic Surgery**



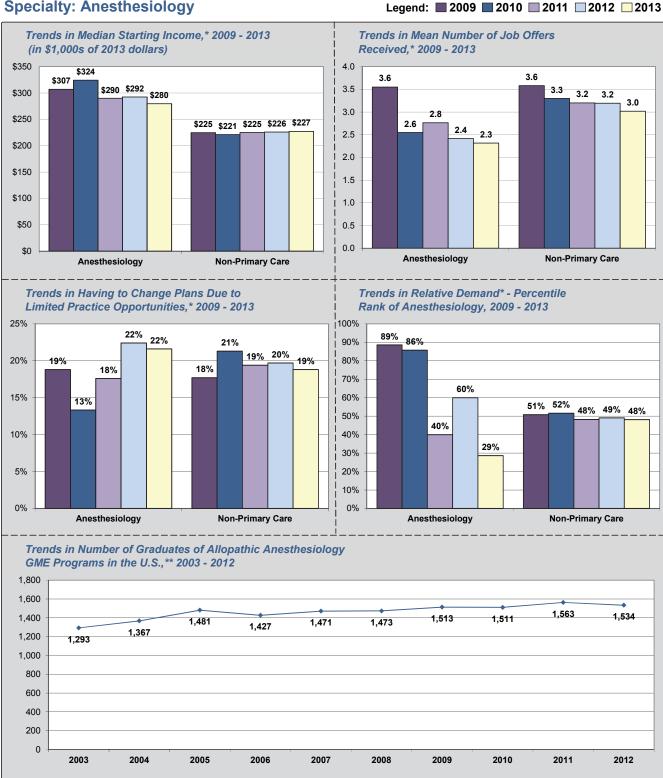
Number of responses: 2009: n = 3, 2010: n = 3, 2011: n = 3, 2012: n = 6, 2013: n = 5. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Urology**



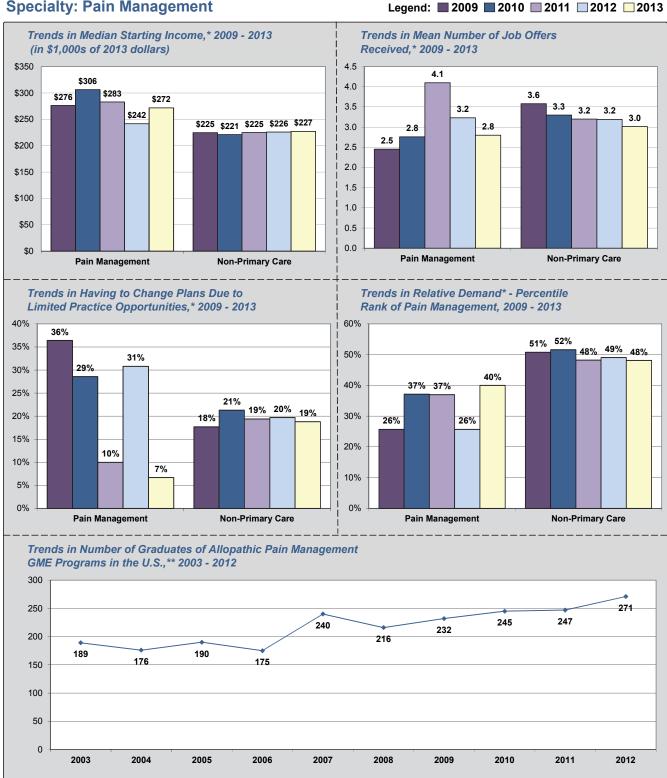
Number of responses: 2009: n = 7, 2010: n = 12, 2011: n = 11, 2012: n = 13, 2013: n = 8. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

## **Specialty: Anesthesiology**



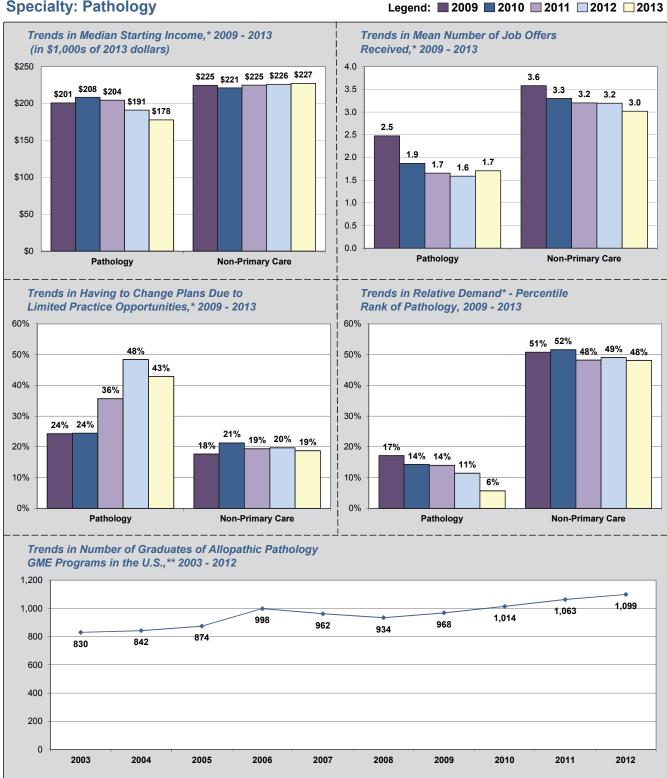
Number of responses: 2009: n = 52, 2010: n = 67, 2011: n = 70, 2012: n = 60, 2013: n = 41. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Pain Management**



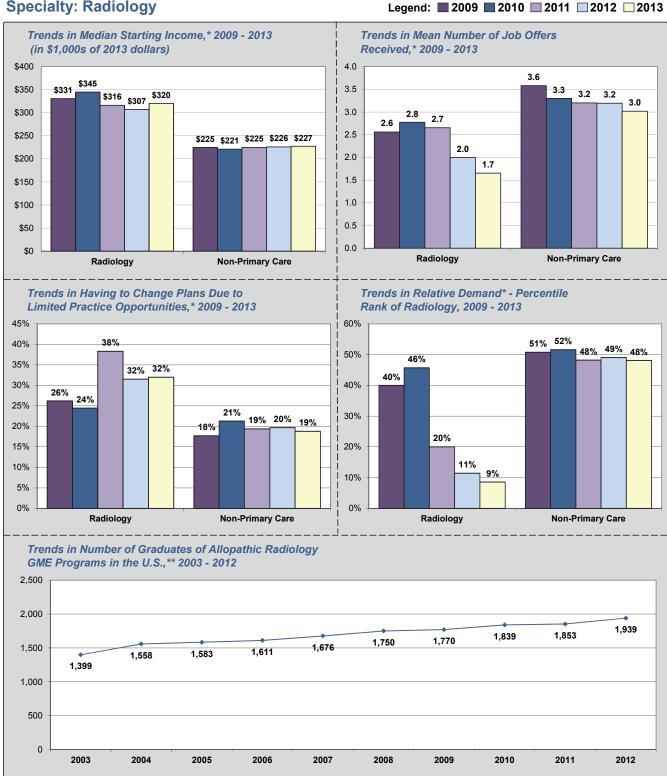
Number of responses: 2009: n = 12, 2010: n = 21, 2011: n = 10, 2012: n = 13, 2013: n = 15. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# **Specialty: Pathology**



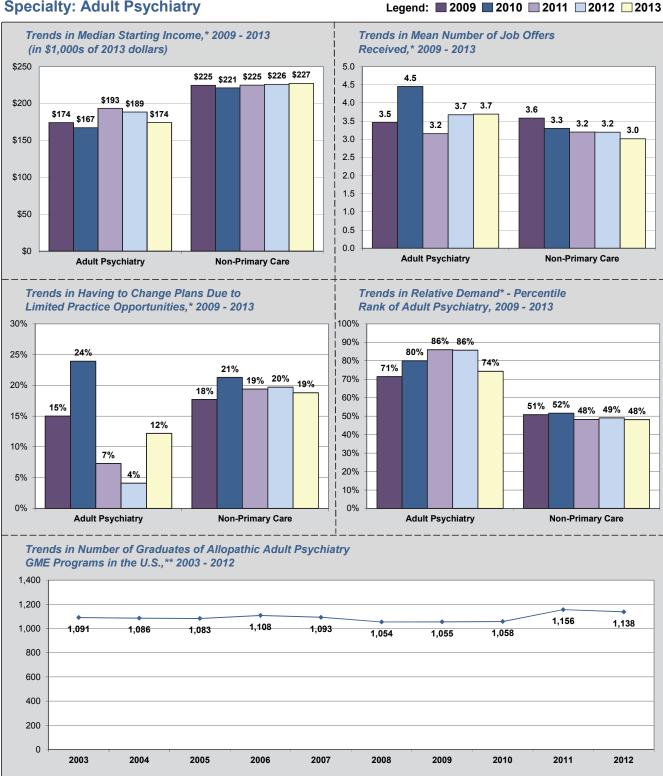
Number of responses: 2009: n = 39, 2010: n = 47, 2011: n = 33, 2012: n = 32, 2013: n = 35. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### **Specialty: Radiology**



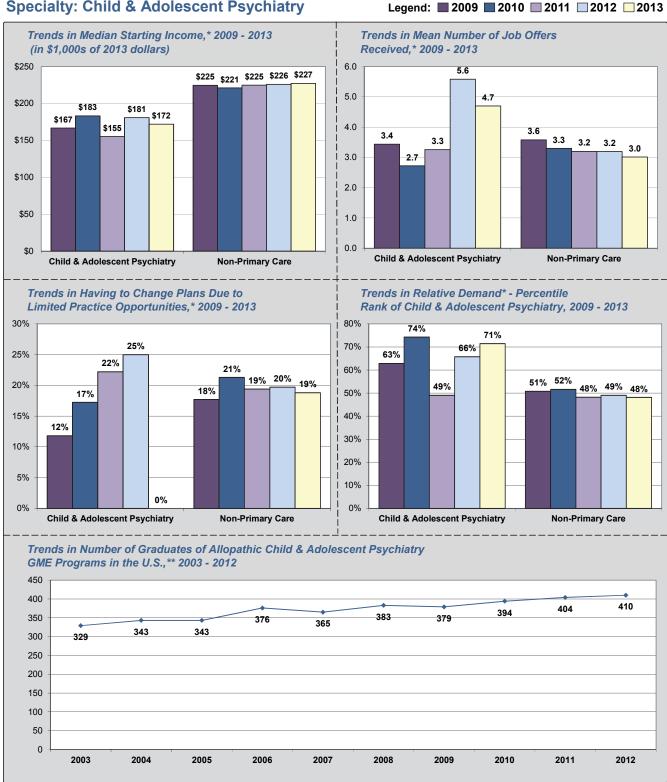
Number of responses: 2009: n = 46, 2010: n = 49, 2011: n = 53, 2012: n = 57, 2013: n = 54. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

## **Specialty: Adult Psychiatry**



Number of responses: 2009: n = 50, 2010: n = 48, 2011: n = 48, 2012: n = 56, 2013: n = 44. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

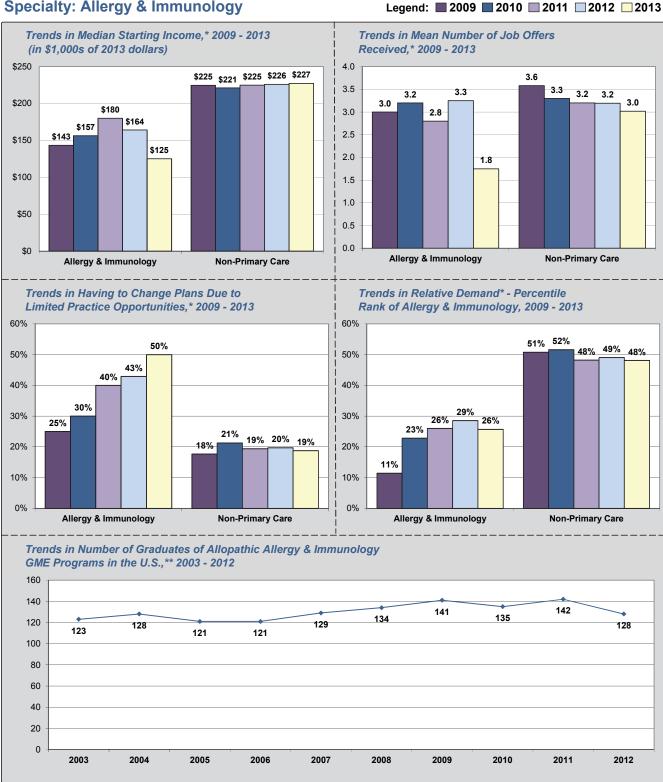
#### Specialty: Child & Adolescent Psychiatry



Number of responses: 2009: n = 17, 2010: n = 31, 2011: n = 27, 2012: n = 15, 2013: n = 11.

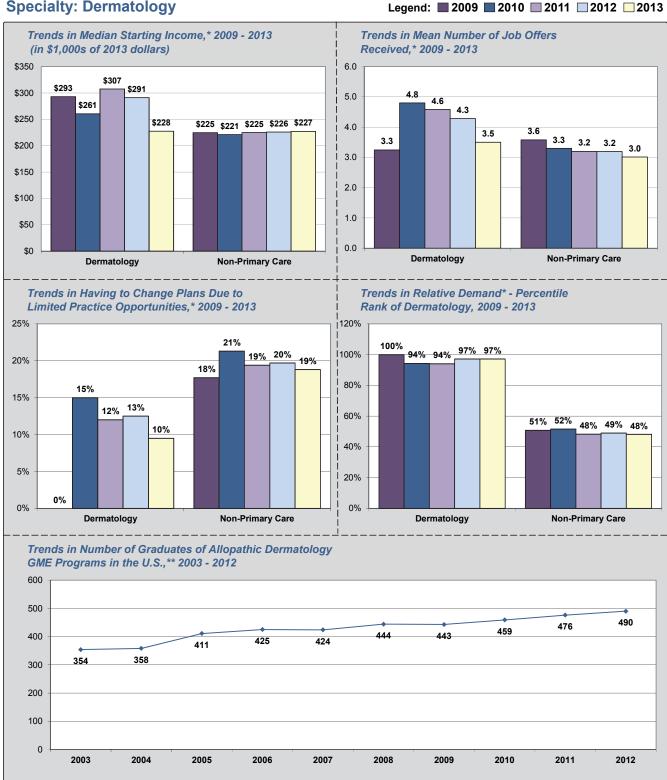
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

# Specialty: Allergy & Immunology



Number of responses: 2009: n = 9, 2010: n = 10, 2011: n = 5, 2012: n = 9, 2013: n = 4. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

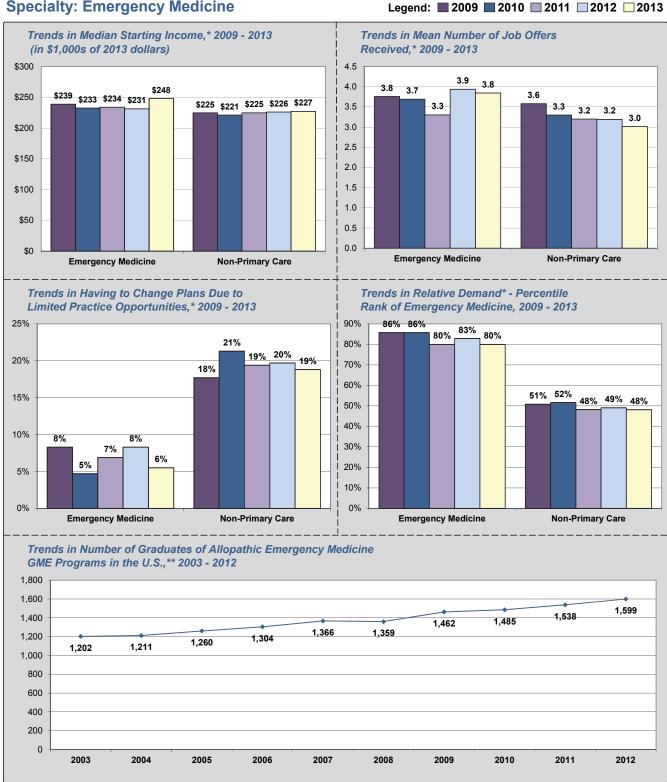
# **Specialty: Dermatology**



Number of responses: 2009: n = 12, 2010: n = 22, 2011: n = 25, 2012: n = 17, 2013: n = 21.

<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

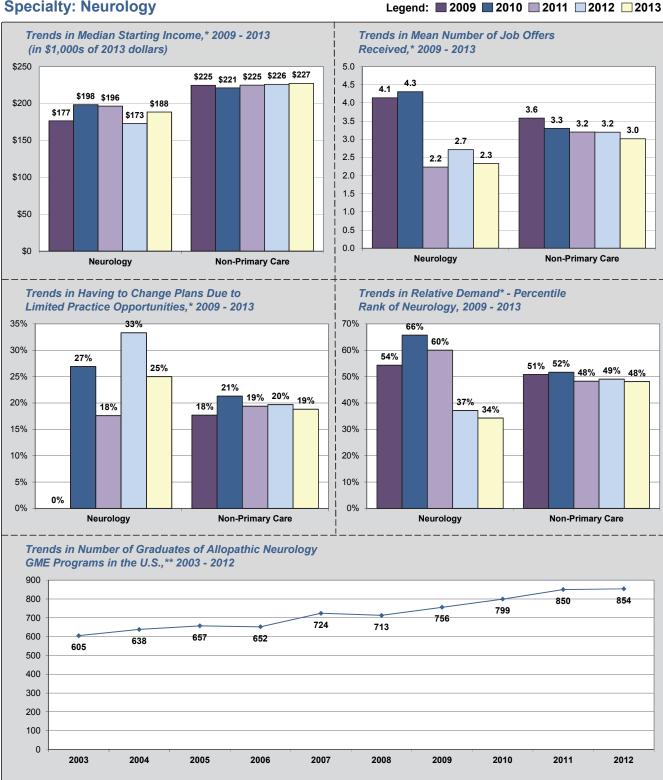
# **Specialty: Emergency Medicine**



Number of responses: 2009: n = 115, 2010: n = 90, 2011: n = 109, 2012: n = 119, 2013: n = 99.

<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. 
\*\*Source: JAMA Medical Education Issues, 2003 - 2012.

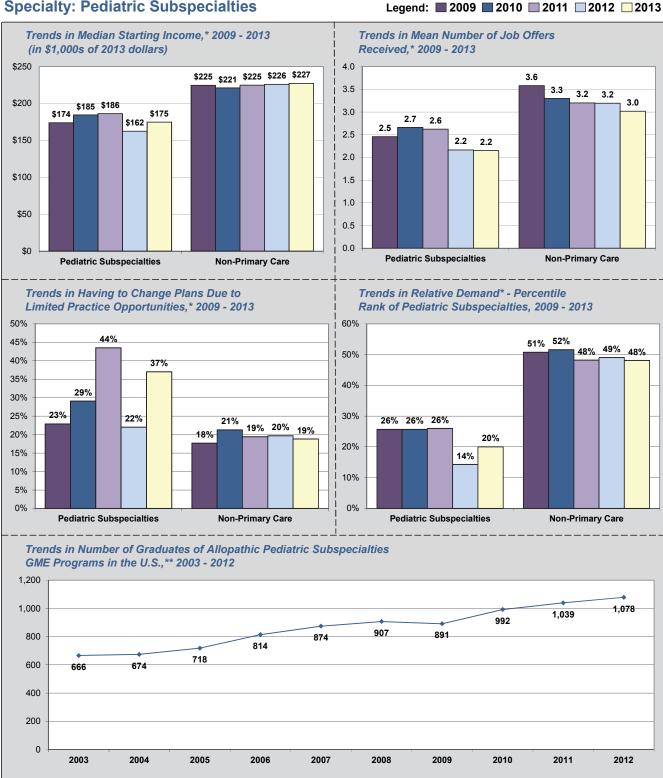
# **Specialty: Neurology**



Number of responses: 2009: n = 16, 2010: n = 27, 2011: n = 23, 2012: n = 17, 2013: n = 11.

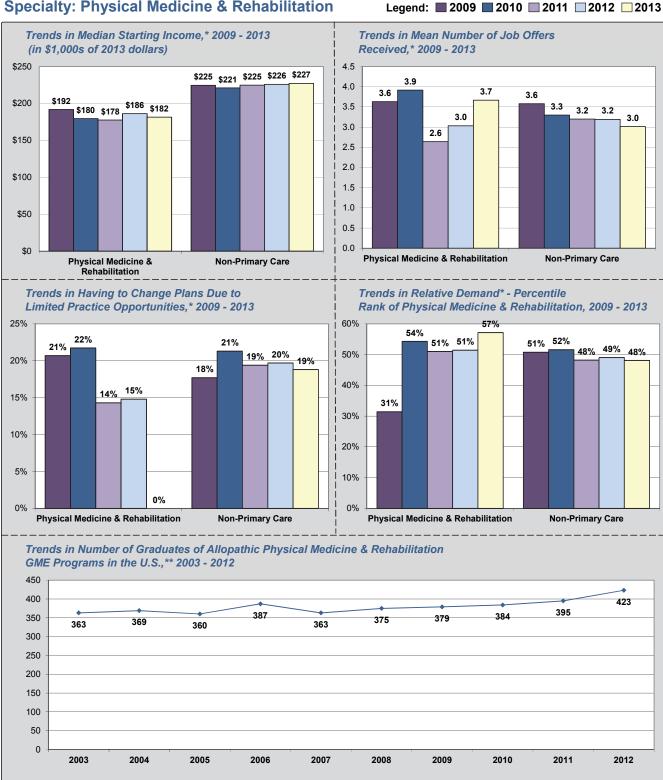
<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. \*\*Source: JAMA Medical Education Issues, 2003 - 2012.

### **Specialty: Pediatric Subspecialties**



Number of responses: 2009: n = 48, 2010: n = 58, 2011: n = 49, 2012: n = 46, 2013: n = 50. \*Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. 
\*\*Source: JAMA Medical Education Issues, 2003 - 2012.

#### Specialty: Physical Medicine & Rehabilitation



Number of responses: 2009: n = 30, 2010: n = 26, 2011: n = 16, 2012: n = 28, 2013: n = 16.

<sup>\*</sup>Source: CHWS, Survey of Residents Completing Training in New York, 2009 - 2013. 
\*\*Source: JAMA Medical Education Issues, 2003 - 2012.

| APPENDIX A. | Methodology U | sed to Measure | e Relative Demand |
|-------------|---------------|----------------|-------------------|
|             |               |                |                   |
|             |               |                |                   |
|             |               |                |                   |
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A-1

The Resident Exit Survey cannot be used to determine *absolute* demand for new physicians in different specialties (i.e., 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 (i.e., 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 specialty 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 2013 was 89% (i.e., general internal medicine had a relative rank equal to or better than 89% of the 35 specialties that were ranked), and the percentile rank of neurology 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 (i.e., where each specialty stood relative to all 35 specialties) scored by each specialty on each of the demand indicators for data from the previous four 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 2013, data from 2013 were weighted .40, data from 2012 were weighted .30, data from 2011 were weighted .20, and data from 2010 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; and
- ✓ trend (i.e., 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.

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

- ✓ <u>diff</u>: rank of each specialty based on the percentage of respondents reporting difficulty finding a satisfactory practice position→e.g., the specialty with the lowest percentage of respondents reporting difficulty (general surgery) ranked #1 and the specialty with the highest percentage of respondents reporting difficulty (plastic surgery) ranked #35.
- ✓ <u>chpln</u>: rank of each specialty based on the percentage of respondents that had to change plans due to practice opportunities →e.g., the specialty with the lowest percentage of respondents having to change plans (neurosurgery) ranked #1 and the specialty with the highest percentage of respondents reporting difficulty (plastic surgery) ranked #35.
- ✓ offrs: 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) →e.g., the specialty with the most job offers (general internal medicine) ranked #1 and the specialty with the fewest job offers (pathology) ranked #35.
- ✓ reg\_mrkt: rank of each specialty in terms of the mean Likert score summarizing respondents' assessments of the regional job market for their specialty →e.g., 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 (cardio-thoracic surgery) ranked #35.
- ✓ nat mrkt: rank of each specialty in terms of the mean Likert score summarizing respondents' assessments of the national job market for their specialty →e.g., the specialty with the most positive assessment of the national job market (urology) ranked #1 and the specialty with the least positive assessment of the national job market (cardio-thoracic surgery) ranked #35.
- ✓ inc trnd: rank of each specialty in terms the average annual change (or trend) in median starting income levels of respondents from each specialty →e.g., the specialty with the strongest trend in median starting income (plastic surgery) ranked #1 and the specialty with the weakest trend in median starting income (dermatology) ranked #35.

#### SUMMARY OF RANKS ON DEMAND INDICATORS

| Specialty            | diff<br>4 | <u>ch_pln</u><br>17 | offers* | reg_mrkt | nat_mrkt | inc_trnd* | Median<br>Rank<br>5.0 | Overall Rank 1.0 | Percentile<br>Rank** |
|----------------------|-----------|---------------------|---------|----------|----------|-----------|-----------------------|------------------|----------------------|
| Family Medicine      | 7         | 9                   | 1       | 9        | 4        | 13        | 8.0                   | 5.0              |                      |
| General Internal Med | -         | -                   | •       | -        |          | -         |                       |                  | 89%                  |
| General Pediatrics   | 14        | 13                  | 21      | 11       | 18       | 30        | 19.5                  | 18.0             | 51%                  |
| IM & Peds (Comb)     | 8         | 3                   | 12      | 7        | 9        | 6         | 7.5                   | 4.0              | 91%                  |
| Ob/Gyn               | 10        | 14                  | 19      | 8        | 15       | 29        | 17.0                  | 14.0             | 63%                  |
| Cardiology           | 29        | 27                  | 15      | 27       | 28       | 33        | 27.5                  | 28.0             | 23%                  |
| Critical Care Med    | 15        | 5                   | 5       | 17       | 14       | 10        | 10.0                  | 10.0             | 74%                  |
| Endocrinology & Met  | 17        | 11                  | 27      | 12       | 12       | 20        | 18.5                  | 17.0             | 54%                  |
| Gastroenterology     | 21        | 20                  | 8       | 16       | 13       | 23        | 18.0                  | 16.0             | 57%                  |
| Geriatrics           | 11        | 8                   | 10      | 14       | 17       | 26        | 12.5                  | 13.0             | 66%                  |
| Hematology/Onc       | 22        | 29                  | 18      | 25       | 23       | 7         | 20.0                  | 20.0             | 46%                  |
| Infectious Disease   | 30        | 25                  | 30      | 31       | 30       | 25        | 30.0                  | 31.0             | 14%                  |
| Nephrology           | 34        | 34                  | 23      | 34       | 31       | 14        | 27.0                  | 27.0             | 26%                  |
| Pulmonary Disease    | 20        | 19                  | 3       | 21       | 7        | 24        | 19.5                  | 18.0             | 51%                  |
| Rheumatology         | 28        | 18                  | 24      | 26       | 22       | 22        | 23.0                  | 24.0             | 34%                  |
| General Surgery      | 1         | 23                  | 9       | 20       | 16       | 2         | 9.0                   | 7.0              | 83%                  |
| Neurosurgery         | 9         | 1                   | 16      | 24       | 10       | 3         | 9.5                   | 8.0              | 80%                  |
| Ophthalmology        | 23        | 26                  | 31      | 23       | 26       | 8         | 24.5                  | 25.0             | 31%                  |
| Orthopedic           | 13        | 16                  | 17      | 22       | 21       | 18        | 17.5                  | 15.0             | 60%                  |
| Otolaryngology       | 16        | 4                   | 6       | 6        | 11       | 16        | 8.5                   | 6.0              | 86%                  |
| Plastic Surgery      | 35        | 35                  | 34      | 30       | 33       | 1         | 33.5                  | 34.0             | 6%                   |
| Cardio-Thoracic Surg | 27        | 28                  | 33      | 35       | 35       | 4         | 30.5                  | 32.0             | 11%                  |
| Urology              | 5         | 2                   | 11      | 10       | 1        | 5         | 5.0                   | 1.0              | 100%                 |
| Anesthesiology       | 12        | 21                  | 28      | 15       | 25       | 32        | 26.5                  | 26.0             | 29%                  |
| Pain Management      | 25        | 22                  | 22      | 19       | 24       | 21        | 22.0                  | 23.0             | 37%                  |
| Pathology            | 33        | 33                  | 35      | 33       | 34       | 34        | 34.0                  | 35.0             | 3%                   |
| Radiology            | 32        | 30                  | 32      | 32       | 32       | 27        | 32.0                  | 33.0             | 9%                   |
| Adult Psychiatry     | 3         | 7                   | 14      | 2        | 2        | 19        | 10.5                  | 12.0             | 69%                  |
| Child & Adol Psych   | 19        | 15                  | 7       | 4        | 8        | 12        | 10.0                  | 10.0             | 74%                  |
| Allergy & Immun      | 30        | 32                  | 25      | 29       | 29       | 31        | 29.5                  | 30.0             | 17%                  |
| Dermatology          | 6         | 10                  | 4       | 3        | 6        | 35        | 6.0                   | 3.0              | 94%                  |
| Emergency Medicine   | 2         | 6                   | 13      | 1        | 3        | 15        | 9.5                   | 8.0              | 80%                  |
| Neurology            | 24        | 24                  | 26      | 13       | 19       | 11        | 21.5                  | 22.0             | 40%                  |
| Pediatric Subspecs   | 26        | 31                  | 29      | 28       | 27       | 17        | 27.5                  | 28.0             | 23%                  |
| •                    | 18        | 12                  | 29      | 18       | 20       | 28        | 20.0                  | 20.0             | 46%                  |
| Phys Med & Rehab     | 10        | 12                  | 20      | 10       | 20       | 20        | 20.0                  | 20.0             | 40%                  |

<sup>\*</sup>The job offers variable and the income trend variable were each double weighted in computing the median rank.

The following example illustrates how the demand score was calculated for general internal medicine in New York in 2013:

Median Rank<sub>GIM</sub> = median (diff, chpln, offers, offers, reg\_mrkt, nat\_mrkt, inc\_trnd, inc\_trnd)

Median Rank<sub>GIM</sub> = median (7, 9, 1, 1, 9, 4, 13, 13)

Median Rank<sub>GIM</sub> = 8.0\*\*\*

\*\*\*With a median rank of 8.0, general internal medicine ranked 5 out of 35 specialties. The percentile rank is computed as:

% rank<sub>GIM</sub> = { 1 - (Rank<sub>GIM</sub> / #specs) + (1 / #specs) } where "#specs" is the

number of specialties being ranked. In New York in 2013, there were 35 specialties being ranked, so the percentile rank of family medicine is:

$$%$$
rank<sub>FM</sub> = { 1 - (5 / 35) + (1 / 35) }  $\sim$  89%.

<sup>\*\*</sup>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**

#### **SPECIALTY COMPARISON GROUPS**

| Specialty                          | Comparison Group*       |
|------------------------------------|-------------------------|
| Family Medicine                    | Primary Care            |
| General Internal Medicine          | Primary Care            |
| General Pediatrics                 | Primary Care            |
| IM & Peds (Combined)               | Primary Care            |
| Obstetrics/Gynecology              | Non-Primary Care        |
| Cardiology                         | Medicine Subspecialties |
| Critical Care Medicine             | Medicine Subspecialties |
| Endocrinology & Metabolism         | Medicine Subspecialties |
| Gastroenterology                   | Medicine Subspecialties |
| Geriatrics                         | Medicine Subspecialties |
| Hematology/Oncology                | Medicine Subspecialties |
| Infectious Disease                 | Medicine Subspecialties |
| Nephrology                         | Medicine Subspecialties |
| Pulmonary Disease                  | Medicine Subspecialties |
| Rheumatology                       | Medicine Subspecialties |
| General Surgery                    | Non-Primary Care        |
| Neurosurgery                       | Surgical Subspecialties |
| Ophthalmology                      | Surgical Subspecialties |
| Orthopedic Surgery                 | Surgical Subspecialties |
| Otolaryngology                     | Surgical Subspecialties |
| Plastic Surgery                    | Surgical Subspecialties |
| Cardio-Thoracic Surgery            | Surgical Subspecialties |
| Urology                            | Surgical Subspecialties |
| Anesthesiology                     | Non-Primary Care        |
| Pain Management                    | Non-Primary Care        |
| Pathology                          | Non-Primary Care        |
| Radiology                          | Non-Primary Care        |
| Adult Psychiatry                   | Non-Primary Care        |
| Child & Adolescent Psychiatry      | Non-Primary Care        |
| Allergy & Immunology               | Non-Primary Care        |
| Dermatology                        | Non-Primary Care        |
| Emergency Medicine                 | Non-Primary Care        |
| Neurology                          | Non-Primary Care        |
| Pediatric Subspecialties           | Non-Primary Care        |
| Physical Medicine & Rehabilitation | Non-Primary Care        |

<sup>\*</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. 2 | <b>2013 NY Resider</b> | t Exit Survey | Instrument |
|---------------|------------------------|---------------|------------|
|---------------|------------------------|---------------|------------|

| pencil or blue or black ink       | Cont  | r for Health Workforce Studies   |
|-----------------------------------|---|--|
|                                   | Cente   | ri for freattir workforce Studies  |
| pen only.                         | University  | at Albany, School of Public Health   |
| Do not use                        |   | Iniversity Place / Suite 220   |
| pens with ink                     |   | ensselaer, NY 12144-3445   |
| that soaks                        | ACGME   |  |
| through the                       | Residency   | For Office   |
| paper.                            | Program #   | -    -    -   Use  |
| Make solid                        |   |  |
| marks that fill                   |   | should be completed by all physicians completing a   |
| the oval                          |   | ning program in New York in 2013 (excluding preliminary  |
| completely.                       | training positions).  |  |
| • Make no stray marks on this     |   |  |
| form.                             | LAST NAME   |  |
| Do not fold,                      | EIDOE MANE  |  |
| tear, or                          | FIRST NAME  |  |
| mutilate this                     |   |  |
| ≤ form.                           | Main Hospital at 🔀  |  |
| CORRECT                           | Which You Did ——  |  |
| <b>√</b>                          | Your Training:  |  |
|                                   | · ·   |  |
| INCORRECT                         | For each question <i>mark o</i>   | nly one answer unless otherwise directed.  |
| A. BACKGROUND                     |   | B. MEDICAL EDUCATION AND TRAINING  |
|                                   |   |  |
| 1. Gender: ON                     |   |  |
| O F6                              | emale   | many total years of post-graduate training will  |
|                                   | 0   | you have completed in the U.S.?  |
|                                   |   | $\bigcirc 1$ $\bigcirc 2$ $\bigcirc 3$ $\bigcirc 4$ $\bigcirc 5$ $\bigcirc 6$ or mo  |
|                                   | 22  |  |
|                                   | 33  | Type of Medical Education:   |
| 3. Citizenship Sta                | itus:   | ○ Allopathic (M.D.) ○ Osteopathic (D.O.)   |
| Citizenship                       | 5 5   |  |
| Cilizenship                       |   |  |
|                                   | 6 6   | 8. Medical School Attended:  |
| At Beginning                      | Current   | 8. Medical School Attended:  New York (if yes, complete below)  Canada   |
| At Beginning of U.S.              | Current<br>Citizenship  | ○ New York (if yes, complete below) ○ Canada   |
| At Beginning                      | Citizenship Status  | <ul><li>New York (if yes, complete below)</li><li>Other state in the U.S.</li><li>Other</li></ul>  |
| At Beginning of U.S.              | Current Citizenship Status  | <ul><li>New York (if yes, complete below)</li><li>Other state in the U.S.</li><li>Other</li><li>Specify if in NY:</li><li>count</li></ul>  |
| At Beginning of U.S.              | Current Citizenship Status  Native born U.S.  | <ul> <li>New York (if yes, complete below)</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Albany Medical College</li> </ul>   |
| At Beginning of U.S.              | Current Citizenship Status  Native born U.S. Naturalized U.S.   | <ul> <li>New York (if yes, complete below)</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> </ul>  |
| At Beginning of U.S. GME Training | Current Citizenship Status  Native born U.S. Naturalized U.S. Permanent resident  | <ul> <li>New York (if yes, complete below)</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> </ul>  |
| At Beginning of U.S.              | Current Citizenship Status  Native born U.S. Naturalized U.S. Permanent resident H-1, H-2, H-3 Temporary  | <ul> <li>New York (if yes, complete below)</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> </ul>  |
| At Beginning of U.S. GME Training | Current Citizenship Status  Native born U.S. Naturalized U.S. Permanent resident H-1, H-2, H-3 Temporary worker   | <ul> <li>New York (if yes, complete below)</li> <li>Canada</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> <li>New York College of Osteo Med of NYIT</li> </ul>   |
| At Beginning of U.S. GME Training | Current Citizenship Status  Native born U.S. Naturalized U.S. Permanent resident H-1, H-2, H-3 Temporary  | <ul> <li>New York (if yes, complete below)</li> <li>Canada</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> <li>New York College of Osteo Med of NYIT</li> <li>New York Medical College (Valhalla)</li> </ul>  |
| At Beginning of U.S. GME Training | Current Citizenship Status  Native born U.S. Naturalized U.S. Permanent resident H-1, H-2, H-3 Temporary worker   | <ul> <li>New York (if yes, complete below)</li> <li>Canada</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> <li>New York College of Osteo Med of NYIT</li> <li>New York Medical College (Valhalla)</li> <li>New York University Sch of Med</li> </ul>  |
| At Beginning of U.S. GME Training | Current 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   | <ul> <li>New York (if yes, complete below)</li> <li>Canada</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> <li>New York College of Osteo Med of NYIT</li> <li>New York Medical College (Valhalla)</li> <li>New York University Sch of Med</li> <li>Stony Brook Univ Med Ctr Sch of Med</li> </ul>   |
| At Beginning of U.S. GME Training | Current Citizenship Status  Native born U.S. Naturalized U.S. Permanent resident H-1, H-2, H-3 Temporary worker   | <ul> <li>○ New York (if yes, complete below)</li> <li>○ Other state in the U.S.</li> <li>○ Other</li> <li>Specify if in NY:</li> <li>○ Albany Medical College</li> <li>○ Albert Einstein Col of Med of Yeshiva Univ</li> <li>○ Columbia University Col of Phys and Surg</li> <li>○ Mt. Sinai School of Medicine</li> <li>○ New York College of Osteo Med of NYIT</li> <li>○ New York Medical College (Valhalla)</li> <li>○ New York University Sch of Med</li> <li>○ Stony Brook Univ Med Ctr Sch of Med</li> <li>○ SUNY Buffalo Sch of Med &amp; Biomed Sci</li> </ul>  |
| At Beginning of U.S. GME Training | Current 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   | <ul> <li>New York (if yes, complete below)</li> <li>Canada</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> <li>New York College of Osteo Med of NYIT</li> <li>New York Medical College (Valhalla)</li> <li>New York University Sch of Med</li> <li>Stony Brook Univ Med Ctr Sch of Med</li> </ul>   |
| At Beginning of U.S. GME Training | Current 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   | <ul> <li>○ New York (if yes, complete below)</li> <li>○ Canada</li> <li>○ Other state in the U.S.</li> <li>○ Other</li> <li>Specify if in NY:</li> <li>○ Count</li> <li>○ Albany Medical College</li> <li>○ Albert Einstein Col of Med of Yeshiva Univ</li> <li>○ Columbia University Col of Phys and Surg</li> <li>○ Mt. Sinai School of Medicine</li> <li>○ New York College of Osteo Med of NYIT</li> <li>○ New York Medical College (Valhalla)</li> <li>○ New York University Sch of Med</li> <li>○ Stony Brook Univ Med Ctr Sch of Med</li> <li>○ SUNY Buffalo Sch of Med &amp; Biomed Sci</li> </ul>   |
| At Beginning of U.S. GME Training | Current 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   | <ul> <li>○ New York (if yes, complete below)</li> <li>○ Canada</li> <li>○ Other state in the U.S.</li> <li>○ Other</li> <li>Specify if in NY:</li> <li>○ Albany Medical College</li> <li>○ Albert Einstein Col of Med of Yeshiva Univ</li> <li>○ Columbia University Col of Phys and Surg</li> <li>○ Mt. Sinai School of Medicine</li> <li>○ New York College of Osteo Med of NYIT</li> <li>○ New York Medical College (Valhalla)</li> <li>○ New York University Sch of Med</li> <li>○ Stony Brook Univ Med Ctr Sch of Med</li> <li>○ SUNY Buffalo Sch of Med &amp; Biomed Sci</li> <li>○ SUNY Downstate Med Ctr Col of Med</li> <li>○ Touro College of Osteopathic Med</li> </ul>   |
| At Beginning of U.S. GME Training | Current 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  Hispanic/Latino origin? No   | <ul> <li>○ New York (if yes, complete below)</li> <li>○ Other state in the U.S.</li> <li>○ Other</li> <li>Specify if in NY:</li> <li>○ Albany Medical College</li> <li>○ Albert Einstein Col of Med of Yeshiva Univ</li> <li>○ Columbia University Col of Phys and Surg</li> <li>○ Mt. Sinai School of Medicine</li> <li>○ New York College of Osteo Med of NYIT</li> <li>○ New York Medical College (Valhalla)</li> <li>○ New York University Sch of Med</li> <li>○ Stony Brook Univ Med Ctr Sch of Med</li> <li>○ SUNY Buffalo Sch of Med &amp; Biomed Sci</li> <li>○ SUNY Downstate Med Ctr Col of Med</li> <li>○ Touro College of Osteopathic Med</li> <li>○ University of Rochester</li> </ul>  |
| At Beginning of U.S. GME Training | Current 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  Hispanic/Latino origin? No  r race? (mark all that apply) Indian/Alaska Native                                     | <ul> <li>New York (if yes, complete below)</li> <li>Other state in the U.S.</li> <li>Other</li> <li>Specify if in NY:</li> <li>Count</li> <li>Albany Medical College</li> <li>Albert Einstein Col of Med of Yeshiva Univ</li> <li>Columbia University Col of Phys and Surg</li> <li>Mt. Sinai School of Medicine</li> <li>New York College of Osteo Med of NYIT</li> <li>New York Medical College (Valhalla)</li> <li>New York University Sch of Med</li> <li>Stony Brook Univ Med Ctr Sch of Med</li> <li>SUNY Buffalo Sch of Med &amp; Biomed Sci</li> <li>SUNY Downstate Med Ctr Col of Med</li> <li>Touro College of Osteopathic Med</li> <li>University of Rochester</li> <li>Upstate Medical University, SUNY</li> </ul>   |
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PLEASE DO NOT WRITE IN THIS AREA

Survey of Residents Completing Training in NY in 2013

| - Specialty you are Completified in 2013                                      | C. I GIGICL PLAITS   |
|---|--|
| (select only one)   | 10 16  |
| Allergy and Immunology  | 12. If you are going on for additional                     |
| <ul><li>Anesthesiology (General)</li></ul>                                    | training/fellowship, please answer the following:          |
| <ul> <li>Anesthesiology—Pain Management</li> </ul>                            | A. Why are you subspecializing/continuing                  |
| <ul> <li>Other Anesthesiology Subspecialty–specify:</li> </ul>                | training? (mark all that apply)                            |
| <ul><li>Dermatology</li></ul>   | ○ To further your medical education                        |
| ■ ○ Emergency Medicine  | Unable to find a job you are happy with                    |
| ■ ○ Family Medicine   | O Unable to find any job                                   |
| ■ ○ Internal Medicine (General)   | ○ To stay in the U.S. (i.e., due to visa status)           |
| ■ Cardiology  | Other (specify):   |
| <ul> <li>Critical Care Medicine</li> </ul>                                    | Always intended to subspecialize                           |
| <ul> <li>Endocrinology and Metabolism</li> </ul>                              | Question does not apply                                    |
|   | O Question does not apply                                  |
| Gastroenterology  | D. If you are leaving NV to continue your                  |
| <ul> <li>Geriatrics</li> </ul>  | B. If you are leaving NY to continue your                  |
| <ul> <li>Hematology/Oncology</li> </ul>                                       | training, do you plan to return to NY to                   |
| ■ O Infectious Disease  | practice when your training is complete?                   |
| <ul><li>Nephrology</li></ul>  | ○ Yes ○ Don't know yet                                     |
| <ul><li>Pulmonary Disease/CCM</li></ul>                                       | ○ No ○ Question does not apply                             |
| ■ ○ Rheumatology  |  |
| <ul> <li>Other Internal Medicine Subspecialty–specify:</li> </ul>             | 13. In your upcoming position, how many hours              |
| ■ O Internal Medicine and Pediatrics (Combined)                               | per week do you expect to spend in each of                 |
| <ul><li>Neurology</li></ul>   | the following activities?                                  |
| Nuclear Medicine  | None 1-9 10-19 20-29 30-39 40-49 50-59 60+                 |
| Obstetrics and Gynecology (General)   | 1101ie 1-9 10-19 20-29 30-99 40-49 30-99 00+               |
| <ul> <li>Obstetrics and Gynecology (Subspecialty)–specify:</li> </ul>         | Direct patient care O O O O O O                            |
| Pathology (General)   | Research O O O O O O                                       |
|   | Teaching         O         O         O         O         O |
|   | Administration O O O O O O                                 |
| Pediatrics (General)  |  |
| Pediatrics (Subspecialty)–specify:  | Volunteering/Community                                     |
| Physical Medicine and Rehabilitation  | service O O O O O O  |
| Preventive Medicine/Public Health/Occupational Medicine                       | 14 377   |
| <ul><li>Psychiatry</li></ul>  | 14. Where is the location of your primary activity         |
| ■ ○ Child and Adolescent Psychiatry   | after completing your current training position?           |
| Other Psychiatry Subspecialty—specify:  | <ul> <li>Same city/county as current training</li> </ul>   |
| ■ ○ Radiology (Diagnostic)  | ○ Same region within NY, but different                     |
| ■ ○ Radiology (Therapeutic)   | city/county  |
| ■ ○ Surgery (General)   | Other area within NY                                       |
| ■ ○ Cardio-Thoracic Surgery   | Other state  |
| Neurological Surgery  | Outside the U.S.   |
| <ul><li>Ophthalmology</li></ul>   | O Don't know yet   |
| Orthopedic Surgery  | ,  |
| Otolaryngology  | 15. Do you have an obligation or visa requirement          |
| ■ ○ Plastic Surgery   | to work in a federally designated Health                   |
| ■ O Urology   | Professional Shortage Area?                                |
|   | _  |
| Other Surgical Subspecialty—specify:  | ○ Yes ○ No   |
| Other-specify:  |  |
| 11. What do you expect to be doing after completion                           | 16 16  |
| What do you expect to be doing after completion                               | 16. If you are planning to enter or have considered        |
| of your current training program?   | entering patient care/clinical practice:                   |
| Primary Activity (mark only one)  | A. Have you actively searched for a job?                   |
| <ul> <li>Patient care/clinical practice (in non-training position)</li> </ul> | ○ Yes  |
| <ul> <li>Additional subspecialty training or fellowship</li> </ul>            | O No, not yet (Skip to 16C)                                |
| specify specialty):   | ○ No, I will be self-employed (Skip to 16C)                |
| ■ ○ Chief resident  |  |
| ■ ○ Teaching/research (in non-training position)                              |  |
| <ul> <li>Temporarily out of medicine</li> </ul>                               |  |
| Other (specify):  |  |
| <ul> <li>Undecided/don't know yet</li> </ul>                                  |  |
| = 3/19/04/30/14/10/17/30  |  |

Page 2

| B. Which of the following                  |                   |                  | A. what is the zip code            |                | Practice         |
|--|-------------------|------------------|------------------------------------|----------------|------------------|
| approaches have you                        |                   | Most             | of the principal                   | 00000          | Zip Code         |
| used in your job search?                   | <u>Used</u>       | <u>Effective</u> | practice address                   | 00000          | •                |
| Which one did you                          | (mark all         | (mark            | where you will be                  | 2222           |                  |
| find most effective?                       | that apply)       | only one)        | working? If zip code               |                |                  |
| find most effective?                       | <b>V</b>          | <b>V</b>         | is unknown, please                 | 33333          |                  |
|  |                   |                  | give city or town                  | 44444          |                  |
| Third party representation (recruitment    |                   |                  | and state.                         | 55555          |                  |
| agencies/headhunters, online or other      | wise) $\bigcirc$  |                  | and state.                         | 66666          |                  |
| Print/traditional want ad responses (journ | nals,             |                  |                                    | 77777          |                  |
| newspapers, trade publications)            |                   |                  |                                    | 8888           |                  |
| Residency program announcements/caree      | er fairs          |                  |                                    | 99999          |                  |
| Independent search activity on the Interr  |                   |                  |                                    |                |                  |
| (direct to employers)                      |                   |                  |                                    |                |                  |
|  |                   |                  | City/Town                          |                | State            |
| Social networking online                   | 0                 | 0                | City/10WH                          |                | State            |
| Networking in person/word of mouth         | 0                 |                  |                                    |                |                  |
| Other (specify):                           |                   |                  | B. Is this principal pract         |                | ocated           |
|  |                   |                  | in a federally designe             | ed Health      |                  |
| C. Have you been offered a je              | ob?               |                  | Professional Shortag               | e Area?        |                  |
| ○ Yes, and I have accepted a               |                   |                  | ○ Yes ○ No ○ I o                   |                |                  |
| O Yes, but I declined the offi             |                   | Il searching     | 2,00 2,10 2,10                     | 011 6141011    |                  |
|  |                   | in searching     |                                    |                |                  |
| (Skip to Question 25)                      |                   |                  | C. If you are <u>not</u> going t   |                |                  |
| O No, but I have not actively              | searched yet      |                  | please indicate the re             | asons why. In  | the first        |
| (Skip to Question 25)                      |                   |                  | column, indicate all o             | of the reasons | why <i>(mark</i> |
| O No, I have not yet been of               | fered a practice  | e position       | all that apply). In the            |                |                  |
| (Skip to Question 25)                      |                   |                  | the main reason why                |                |                  |
|  |                   |                  |                                    | (              | /-               |
|  |                   |                  |                                    | All            | Main             |
| D. PRACTICE PLANS                          |                   |                  |                                    | <b>Reasons</b> | Reason           |
|  |                   |                  |                                    | (mark all      | (mark            |
| If you have accepted a posit               | ion in patien     | t.               | Practice Reasons                   | that apply)    | only one)        |
| care/clinical practice please              |                   |                  |                                    | $\blacksquare$ | lacksquare       |
| questions, if not, skip to Qu              | estion 25         | onowing          | Overall lack of jobs/practice      |                |                  |
| questions, ii not, ship to sau             | CSHOII 25.        |                  | opportunities in New York          |                | $\circ$          |
| 17. Which best describes th                | e type of pat     | ient             | Better jobs/practice opportunities |                |                  |
| care practice you will b                   |                   | iciic            | desired locations outside New      | York O         |                  |
|  | _                 |                  | Better jobs/practice opportunities | s in desired   |                  |
| Principal Secondary                        |                   |                  | practice setting (e.g., hospital,  | Rroup          |                  |
| Practice Setting Practice S                |                   |                  | practice, etc.) outside New Yor    | -              |                  |
| (mark only one) (mark all t                | hat apply)        |                  | Better jobs/practice opportunities |                |                  |
| V Color                                    | oractica          |                  |                                    |                |                  |
| O Solo p                                   |                   |                  | outside New York that meet vis     | d              |                  |
| O O Partne                                 |                   | :)               | status requirements                | $\bigcirc$     | $\circ$          |
| <ul><li>Group</li></ul>                    |                   |                  | Financial Reasons                  |                |                  |
| ○OHosp                                     |                   |                  | Better salary/compensation offere  | :d             |                  |
| ○ Hosp                                     | ital—Ambulator    | y care           | outside New York                   |                |                  |
| O Hosp                                     | ital—Emergency    | y room           | Cost of malpractice insurance in   |                |                  |
| O O Freest                                 |                   |                  | New York                           |                |                  |
| OONursir                                   |                   |                  | Cost of establishing a medical pra | actice         |                  |
| OO. Other                                  |                   |                  | in New York                        |                |                  |
| OOli lei                                   | •                 |                  | Taxes in New York                  |                |                  |
| 19 What land of a second to                |                   |                  |                                    | 0              |                  |
| 18. What level of ownership                | wiii you nav      | e in your        | Cost of living in New York         | $\cup$         |                  |
| upcoming practice?                         |                   |                  | Personal Reasons                   |                |                  |
| O None, I will be an emp                   | loyee             |                  | Proximity to family                | $\bigcirc$     |                  |
| O None currently, but I ma                 | ay have the opt   | tion to          | Better employment opportunities    | for            |                  |
| become a partner in                        |                   |                  | spouse/partner outside New Y       |                |                  |
| O I will be a partner, but w               |                   | v capital        | Climate (e.g., weather)            |                | $\bigcirc$       |
| invested in the practi                     |                   | , capital        | Other Reasons                      |                |                  |
|  |                   | vo capital       |                                    |                |                  |
| O I will be an owner/partr                 |                   |                  | Never intended to practice in      |                |                  |
| invested and own a f                       | inancial stake ir | n the            | New York                           | <u> </u>       | $\circ$          |
| practice)                                  |                   |                  | Other reason:                      |                |                  |
|  |                   |                  | . •                                |                | Page 3           |
|  |                   |                  | conti                              | nue            |                  |
|  |                   |                  |                                    |                |                  |

| 20. How many years do you  | expect to be  | e at                | 24. What is your level of satisfaction with your salary/compensation?                 |  |  |
|--|---|---------------------|---|--|--|
| your principal practice?   |   |                     |   |  |  |
| 01 02 03 0   | J4 U50  | ormore              | <ul><li>Very dissatisfied</li><li>Somewhat satisfied</li><li>Very satisfied</li></ul> |  |  |
| 21. Which best describes the   | e demograph   | nics of             | O Somewhat dissatisfied O very satisfied  |  |  |
| the area in which you will be practicing?  |   |                     | E. EXPERIENCE IN JOB MARKET   |  |  |
| ○ Inner city   |   |                     |   |  |  |
| Other area within major city   |   |                     | (If you are going into patient care or have   |  |  |
| Suburban   |   |                     | considered going into patient care, please  |  |  |
| Small city (population le  | ss than 50 000  | ))                  | complete the following.)  |  |  |
| Rural  | .55 (1)411 50,000   | ,                   | OF  |  |  |
|  |   |                     | 25. A. Did you have difficulty finding a practice                                     |  |  |
| 22. A. Please identify all of the incentives you received for accepting this practice position |   |                     | position you were satisfied with?   |  |  |
|  |   |                     | ○ Yes ○ No ○ Haven't looked yet   |  |  |
| (mark all that apply). I   | Also, please  | indicate the        |   |  |  |
| most influential incent  |   |                     |   |  |  |
| accept this practice po  |   |                     | B. If Yes, what would you say was the   |  |  |
| (manle anly ana)   | Incentives  | Most<br>Influential | main reason? ( <u>mark only one</u> )   |  |  |
| ,  | Received  | <u>Incentive</u>    | Overall lack of jobs/practice opportunities   |  |  |
|  | <u></u>   | <u> </u>            | ☐ Lack of jobs/practice opportunities that meet visa                                  |  |  |
| H-1 visa sponsorship   |   |                     | status requirements   |  |  |
| J-1 visa waiver  | 0   | 0                   | ○ Lack of jobs/practice opportunities in desired                                      |  |  |
| Sign-on bonus  |   |                     | locations   |  |  |
| Income guarantees  | 0   | 0                   | <ul> <li>Lack of jobs/practice opportunities in desired practice</li> </ul>           |  |  |
| On-call payments   |   |                     | setting (e.g., hospital, group practice, etc.)  |  |  |
| Relocation allowances  |   |                     | ○ Inadequate salary/compensation offered  |  |  |
| Spouse/Partner job transition assista  | ince O  |                     | ☐ Lack of employment opportunities for spouse/partner                                 |  |  |
| Support for maintenance of certification   |   |                     | Other (specify):  |  |  |
| and continuing medical education   | on O  |                     |   |  |  |
| Career development opportunities   |   |                     | 26. Did you have to change your plans   |  |  |
| Educational loan repayment   |   | $\circ$             | because of limited practice opportunities?  |  |  |
| Other, specify:  |   |                     | ○ Yes ○ No ○ Haven't looked yet   |  |  |
| None   |   |                     | (Skip to Question #28)  |  |  |
| B. If you received any ince  |   |                     | 27. How many offers for practice positions did  |  |  |
| important were they in   |   | n to                | you receive (excluding fellowships, chief   |  |  |
| accept this practice pos   |   |                     | residency, and other training positions)?   |  |  |
| O Not at all important   |   |                     |   |  |  |
| <ul> <li>Somewhat important</li> </ul>   | O Very imp  | ortant              | ○ None ○ 1 ○ 2 ○ 3  |  |  |
|  |   |                     | O 4 O 5 O 6–10 O Over 10  |  |  |
| 23. Expected gross income d  | uring first yea   | ar of               | 28. What is your overall assessment of practice                                       |  |  |
| practice:  |   |                     | opportunities in your specialty, and within   |  |  |
| A. <u>Base Salary/Income</u>   | B. Anticipated<br>Incentive Incentive |                     | 50 miles of the site where you trained?   |  |  |
|  | <ul><li>None</li></ul>  | Come                | O No iolos O Como iolos   |  |  |
| ○ Less than \$75,000<br>○ \$75,000–\$99,999  | O Less than   | ν ¢Ε ΛΛΛ            | <ul><li>No jobs</li><li>Some jobs</li><li>Very few jobs</li><li>Many jobs</li></ul>   |  |  |
| \$100,000 - \$124,999  | ○ \$5,000-9   |                     | O Few jobs O Unknown  |  |  |
| \$100,000=\$124,999 \$125,000=\$149,999  | \$3,000 = \$10,000 = \$   |                     |   |  |  |
| \$150,000 = \$174,999 \$150,000 = \$174,999  | \$10,000- \$15,000-   |                     | 29. What is your overall assessment of practice                                       |  |  |
| \$1750,000 = \$174,7999 \$175,000 = \$199,999  | \$13,000 \$20,000   | ,                   | opportunities in your specialty nationally?   |  |  |
| \$200,000 = \$179,999 \$200,000 = \$224,999  | \$20,000 \$25,000   |                     | ○ No jobs ○ Some jobs   |  |  |
| \$250,000 = \$224,799 \$225,000 = \$249,999  | \$25,000 \$30,000   |                     | O Very few jobs O Many jobs   |  |  |
| \$250,000 \$274,999  | \$35,000  |                     | ○ Few jobs ○ Unknown  |  |  |
| \$275,000-\$299,999  | \$40,000  |                     | C Tevv Joes C Grinnovin   |  |  |
| \$273,000=\$277,777 \$300,000=\$324,999  | \$45,000  |                     |   |  |  |
| \$300,000 = \$324,777 \$325,000 = \$349,999  | \$45,000 \$50,000   |                     | THANK YOU FOR COMPLETING  |  |  |
| \$350,000 \$377,777 \$350,000 \$374,999  | \$55,000  |                     |   |  |  |
| ○ \$375,000 and over   | \$60,000  |                     | THIS IMPORTANT SURVEY.  |  |  |
| Foco /   |   | ,                   |   |  |  |
| Page 4. SCANTRON Mark Reflex®  | EM-211568-15:6543   | 21 ED99             |   |  |  |
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