Charting Outcomes in the Match: U.S. Allopathic Seniors

Characteristics of U.S. Allopathic Seniors Who Matched to Their Preferred Specialty in the 2018 Main Residency Match

2nd Edition

Prepared by:
National Resident Matching Program
www.nrmp.org

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- Chart 1: Active Applicants in the 2018 Main Residency Match

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- Chart 1: Active Applicants in the 2018 Main Residency Match

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Introduction

Background

The first edition of Charting Outcomes in the Match was published in August 2006 to document how applicant qualifications affect success in the Main Residency Match®. The report was published biennially between 2007 and 2011 and was a collaboration of the National Resident Matching Program® (NRMP®) and the Association of American Medical Colleges® (AAMC®). Match outcome data from the NRMP were combined with applicant characteristics from the AAMC’s Electronic Residency Application Service (ERAS®) and United States Medical Licensing Examination (USMLE®) scores from the AAMC data warehouse. In 2014, NRMP added a Professional Profile section to its Match registration process to collect USMLE scores and other applicant characteristics and those have been used to independently publish all subsequent Charting Outcomes in the Match reports.

Prior to 2016, this report examined the Match success of only two applicant groups: senior students from U.S. allopathic medical schools and independent applicants. Independent applicants included all applicant types other than U.S. seniors: previous graduates of U.S. allopathic medical schools, students/graduates of osteopathic medical schools, students/graduates of Fifth Pathway programs, students/graduates of Canadian medical schools, and U.S. citizen and non-U.S. citizen students/graduates of international medical schools. Because independent applicants are a heterogeneous group, a decision was made in 2016 to report data separately for U.S. allopathic medical school seniors, students/graduates of osteopathic medical schools, U.S. citizen students/graduates of international medical schools, and non-U.S. citizen students/graduates of international medical schools. In 2018, senior students of osteopathic medical schools are reported separately, and there is no report for osteopathic medical school graduates because their numbers are so small.

This report examines the characteristics of U.S. allopathic seniors.

Data

Match success, specialty preference, and ranking information were collected through the Main Residency Match. The 40 U.S. medical schools receiving the highest totals of National Institutes of Health (NIH) grants were obtained from the NIH website. Other applicant characteristics, including USMLE Step 1 and Step 2 CK scores, academic degrees, publications, Alpha Omega Alpha Honor Medical Society (AOA) membership, and research, and work and volunteer experiences, were self-reported through the Professional Profile section of the NRMP’s Applicant Registration Form for the Match. To complete the form, applicants were asked to answer the questions as they did in their ERAS Common Application Form (CAF). Completion of the form was optional, and applicants who completed the form could consent or decline to participate in NRMP research. Data collection for the self-reported Professional Profile section was granted exemption by the Chesapeake (now Advarra) Institutional Review Board (IRB).

A total of 18,818 U.S. allopathic seniors submitted certified rank order lists in the 2018 Main Residency Match. After excluding the 7.0 percent of U.S. allopathic seniors who did not give consent to participate in NRMP research, 17,497 applicants were included in the final dataset. Missing data were found in Step 1 scores (1.1% missing), Step 2 CK scores (3.1%), number of research experiences (10.1%), number of abstracts, presentations, and publications (10.2%), number of work experiences (11.7%), number of volunteer experiences (11.5%), Ph.D. degree (4.7%), other graduate degree (5.2%), and AOA membership (5.9%).

To ensure that USMLE Step scores were not misreported, the NRMP asked medical schools to verify the scores of their U.S. senior students. In 2018, 95 percent of the Step 1 scores and 96 percent of the Step 2 CK scores used in this report were verified, corrected, or supplied by U.S. medical schools. Because the self-reported scores are highly accurate (the intraclass correlation coefficient (ICC) between the self-reported scores and school-verified scores was 0.986 (99% CI [0.986, 0.987]) for Step 1 scores and 0.982 (99% CI [0.981, 0.983]) for Step 2 CK scores), both verified and unverified scores were used to prepare this report.

Methods

Specialties that offered 50 or more positions in the 2018 Main Residency Match are included in this report. Over the years, specialties have been added to the report, including Otolaryngology and Neurology in 2007, Neurological Surgery in 2009, Child Neurology and Vascular Surgery in 2014, and Interventional Radiology in 2018. Transitional Year programs were excluded beginning with the 2011 report because they are not viewed as a specialty choice.

Twelve measures are incorporated in this report. Probability analysis using a simple logistic regression model was introduced in 2009 to evaluate the relationship between Match success and contiguous ranks and USMLE Step 1 scores. Probability analyses in this report used data on U.S. seniors who participated in the Match in 2016, 2017, and 2018.
It is important to note that for purposes of this report, Match success is defined as a match to the specialty of the applicant’s first-ranked program, or "preferred specialty," because that is assumed to be the specialty of choice. Lack of success includes matching to another specialty as well as failure to match at all. No distinction was made based on whether applicants matched to the first, second, third, or lower choice program.

Summary
Some general observations apply to all specialties in this report. U.S. allopathic seniors who are successful in matching to their preferred specialty are more likely to:

- Rank more programs within their preferred specialty
- Have higher USMLE Step 1 and Step 2 scores
- Be members of Alpha Omega Alpha Honor Medical Society

Although other measures seem to be related to Match success for some specialties, the relationships are not consistent enough to draw broad conclusions across specialties. In addition, the data sources used for Charting Outcomes in the Match do not include other important applicant factors such as course evaluations, reference letters, and the Medical School Performance Evaluation (MSPE).

Despite the fairly strong relationship between USMLE Step scores and Match success, the distributions of scores show that program directors consider other qualifications. A high score is not a guarantee of success, and a low score is not a bar to success. Even in the most competitive specialties a few individuals with high scores are not successful. In the less competitive specialties, U.S. seniors with scores slightly above passing usually match to their preferred specialties. The data also are reassuring because they indicate that at least some programs do not employ an arbitrary cutoff or decline to consider applicants with less than excellent test performance.

The data in this report support the following straightforward advice one should give to an applicant:

- Rank all of the programs you really want, without regard to your estimate of your chances with those programs.
- Include a mix of both highly competitive and less competitive programs within your preferred specialty.
- Include all of the programs on your list where the program has expressed an interest in you and where you would accept a position.
- If you are applying to a competitive specialty and you want to have a residency position in the event you are unsuccessful in matching to a program in your preferred specialty, also rank your most preferred programs in an alternate specialty.
- Include all of your qualifications in your application, but know that you do not have to be AOA, have the highest USMLE scores, have publications, or have participated in research projects to match successfully.

Program directors and applicants will find the tables and charts for the specialty of their particular interest later in this report.

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Chart 1 shows the number of active applicants (applicants who submitted rank order lists of programs) by applicant type in the 2018 Main Residency Match. A total of 37,103 active applicants participated in the 2018 Main Residency Match. U.S. allopathic medical school seniors constituted 50.7 percent of the applicants in the 2018 Match. The next largest group were non-U.S. citizen students and graduates of international medical schools (19.0%). The numbers of Fifth Pathway (n=2) and Canadian graduates (n=13) are small.
Table 1 provides a summary of the numbers of positions for selected specialties and the numbers of all applicants and U.S. allopathic seniors who preferred each specialty. For example, a total of 2,004 applicants preferred Anesthesiology (or ranked an Anesthesiology position first), among whom 1,129 were U.S. allopathic seniors (1,084 matched and 45 not matched to Anesthesiology). For each of the 1,840 Anesthesiology positions there were 1.09 applicants who preferred the specialty, including 0.61 U.S. allopathic seniors.

Only those specialties offering 50 or more positions are included. For those specialties offering both PGY-1 and PGY-2 positions (including Physician (R) positions), all position types have been combined.
Chart 2 shows the ratios of U.S. allopathic seniors and all applicants who preferred each specialty to available positions in that specialty. All specialties except Interventional Radiology, Neurological Surgery, Orthopaedic Surgery, and Plastic Surgery have enough positions to accommodate all U.S. seniors who preferred that specialty. The ratio was lowest for Pathology, Family Medicine, and Internal Medicine.
Chart 3 shows the percentages of U.S. seniors who matched to their preferred specialty. Overall, 91.8 percent of U.S. seniors matched to their preferred specialty, ranging from a high of 99.0 percent (Child Neurology) to a low of 58.3 percent (Interventional Radiology).
### Summary Statistics on U.S. Allopathic Seniors

**All Specialties Combined**

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=15,451)</th>
<th>Unmatched (n=1,336)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.3</td>
<td>5.3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.2</td>
<td>1.6</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>233</td>
<td>224</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 CK score</td>
<td>246</td>
<td>236</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.2</td>
<td>3.3</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>5.7</td>
<td>5.0</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.2</td>
<td>3.3</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.3</td>
<td>6.6</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>17.0</td>
<td>6.4</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>31.9</td>
<td>22.5</td>
</tr>
<tr>
<td>with the highest NIH funding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>4.0</td>
<td>2.9</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>17.2</td>
<td>21.9</td>
</tr>
</tbody>
</table>

**Sources.** NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Table 2 provides summary statistics for all specialties by Match outcome on the 12 measures presented in this report. Data on each of these measures are displayed graphically by preferred specialty on the following pages. Only U.S. allopathic seniors who gave consent to use their information in research are included in this table and the rest of the report.
In general, applicants are more likely to be successful if they rank more programs in their desired specialty. To quantify this aspect of applicant behavior, we tallied the number of programs ranked in the first-choice specialty before a program in another specialty appeared on the applicant's rank order list (contiguous ranks).

Chart 4 displays the median number of contiguous ranks by preferred specialty for U.S. allopathic seniors who matched and did not match to their preferred specialty. The chart shows considerable variation across the specialties for U.S. seniors. Vascular Surgery had the longest average contiguous rank list (18) for matched U.S. seniors and Interventional Radiology had the shortest (4). For all specialties, U.S. seniors who matched to their preferred specialty had median contiguous rank lists that were longer than those of U.S. seniors who did not match.

The principal message of this chart is that applicants with longer rank order lists are more successful than those with shorter ones. The NRMP has been recommending longer lists for many years, but some applicants apparently do not heed the advice. Others may have shorter lists because they found only a few programs willing to entertain their applications or because they could not afford a large number of interview trips.
Some applicants are interested in a single specialty while others consider two or more. Chart 5 displays the average number of different specialties ranked by preferred specialty and Match outcome. For all specialties except Child Neurology, U.S. allopathic seniors who did not match to their preferred specialty had a higher mean number of different specialties ranked.
USMLE Step 1 scores are a measure of a student’s understanding of important basic science concepts and the ability to apply that knowledge to the practice of medicine. Although such knowledge is only one facet of applicant qualifications considered by program directors in their selection process, a Step 1 score is the only qualification that is universally available for all applicants during the interview season and prior to the NRMP’s ranking deadline. Overall, U.S. allopathic seniors who matched to their preferred specialty have mean USMLE Step 1 scores of 232.8 (s.d. = 17.5) well above the 2018 minimum passing score of 194. Step 1 scores were available for 99 percent of U.S. seniors who gave consent to research.

Chart 6 displays the Step 1 scores for U.S. allopathic seniors by specialty and match status. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges (IQR, the range of scores for applicants excluding the top and bottom quarters of the distribution). Scores generally are higher for the more competitive specialties, but there is substantial overlap when specialties are compared.

Across all specialties, the IQR of U.S. seniors who matched to their preferred specialties was higher than those who did not match.
USMLE Step 2 CK scores are a measure of an applicant's ability to apply the medical knowledge, skills, and understanding of clinical science essential for providing patient care. Overall, U.S. allopathic seniors who matched to their preferred specialty had mean USMLE Step 2 CK scores of 245.6 (s.d. = 15.0) well above the 2018 minimum passing score of 209. Step 2 CK scores were available for 97 percent of U.S. seniors who gave consent to research.

Chart 7 shows the Step 2 CK scores for U.S. seniors by preferred specialty and match status. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges. As was the case for the Step 1 scores, the more competitive specialties have higher average Step 2 CK scores, but the overall variation is smaller.

Across all specialties, the IQR of U.S. seniors who matched to their preferred specialties was higher than those who did not match.
Applicants were asked to report the number of research experiences entered in their Electronic Residency Application Service (ERAS) applications. The experiences are not verified or evaluated and quality may vary greatly. Chart 8 shows the average number of research experiences by preferred specialty and Match outcome. U.S. seniors averaged 3.3 research experiences, with 84.9 percent reporting this information. For all specialties except Family Medicine, matched U.S. seniors had more or equal numbers of research experiences on average.
Applicants were asked to list the number of abstracts, presentations, and publications they reported in their ERAS applications. This information is self-reported and may include peer-reviewed articles, abstracts, poster sessions, and invited national or regional presentations. Some residency programs may independently verify and even review publications for applicants in whom they have an interest, but most probably do not.

Many applicants report abstracts, presentations, or publications, sometimes dozens or even hundreds. In the individual specialty sections, we distinguish between no publications, 1 to 5 publications, and more than 5 publications. Chart 9 shows the average number of publications by preferred specialty and Match outcome.

U.S. seniors averaged 5.8 publications, with 78.0 percent reporting this information. Matched U.S. seniors had a higher mean number of abstracts, presentations, and publications in all specialties but Internal Medicine/Pediatrics, Neurology, Pathology, and Plastic Surgery.
Applicants were asked to list the number of work experiences they reported in their ERAS applications. Chart 10 shows the average number of work experiences by preferred specialty and Match outcome. There is little variation across specialties or within specialties (matched or not matched) for the U.S. seniors. Three-quarters (81.5%) of U.S. seniors reported work experiences, with an average of 3.2 work experiences for all U.S. seniors. Differences in mean number of work experiences are small in most specialties.
Applicants were asked to list the number of volunteer experiences they reported in their ERAS applications. Chart 11 displays the average number of volunteer experiences by preferred specialty and Match outcome. Matched U.S. seniors in most specialties averaged more volunteer experiences when compared to unmatched seniors in the same specialties, with several averaging at least one more experience. U.S. seniors averaged 7.2 volunteer experiences, with 87.9 percent reporting at least one experience.
Membership in Alpha Omega Alpha (AOA) Honor Medical Society is an honor reserved for students with high academic achievement. AOA membership is limited to students in medical schools that sponsor an AOA chapter. Most, but not all, allopathic schools in the United States participate. An analysis of its relationship with success in the Match is limited by the relatively small number of applicants who are members, by the fact that some schools do not have AOA chapters, and by the fact that other schools elect AOA members too late in the academic year for it to be considered in the application process.

Data on AOA membership are self-reported. Overall, 16.7 percent of U.S. seniors included in this report claimed AOA membership. Among applicants who matched to their preferred specialty, 17.0 percent reported AOA membership, compared to 6.4 percent of unmatched applicants.

As with several of the other measures, the most competitive specialties are able to attract the greatest proportion of AOA members. All specialties attract some AOA applicants, but for most specialties AOA members account for fewer than one in four successful applicants.
Some program directors may give preference to applicants with research experience or who graduated from a research-intensive medical school. To test that assumption, we obtained data on the amount of NIH grant awards and identified the 40 schools with the highest NIH funding. This measure, by definition, is limited to students of U.S. medical schools. Overall, 31.9 percent of matched and 22.5 percent of unmatched U.S. seniors were graduates of one of the 40 medical schools with the highest NIH funding.

Chart 13 shows the percentage of U.S. allopathic seniors who graduated from those schools by specialty and Match outcome. For example, 31 percent of U.S. seniors who matched in Anesthesiology were graduates of one of the 40 medical schools with the highest NIH funding, and 26 percent of seniors who did not match in Anesthesiology were graduates of those schools.

Dermatology had the highest percentage of matched U.S. seniors who were graduates of a medical school with the highest NIH funding. Neurological Surgery, Plastic Surgery, and Radiation Oncology also had higher percentages of matched applicants from those schools compared to the other specialties. For all specialties except Pathology and Physical Medicine and Rehabilitation, smaller percentages of seniors who did not match to their preferred specialty were graduates of a medical school with the highest NIH funding compared to seniors who matched.
Chart 14 shows by preferred specialty and match status the percentage of U.S. allopathic seniors who have a Ph.D. and/or other graduate degrees. Pathology, Radiation Oncology, Neurological Surgery, Neurology, and Child Neurology had the highest percentages of matched U.S. seniors with a Ph.D. degree. For most specialties, the percentage of unmatched U.S. seniors who have other graduate degrees was higher than that of their matched counterparts.
### Summary Statistics on U.S. Allopathic Seniors

**Anesthesiology**

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=1,012)</th>
<th>Unmatched (n=38)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>14.6</td>
<td>5.3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.3</td>
<td>1.7</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>232</td>
<td>212</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>244</td>
<td>226</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.9</td>
<td>2.4</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>4.5</td>
<td>2.6</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.1</td>
<td>3.1</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.4</td>
<td>6.9</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>10.5</td>
<td>2.6</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>30.6</td>
<td>26.3</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>2.5</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>15.0</td>
<td>27.3</td>
</tr>
</tbody>
</table>

**Note:** Only U.S. allopathic seniors who gave consent to use their information in research are included.

**Sources.** NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart AN-1
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors
Anesthesiology

Chart AN-2
Number of Contiguous Ranks of U.S. Allopathic Seniors
Anesthesiology

Source: NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Anesthesiology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Anesthesiology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
**Chart AN-5**

Number of Research Projects of U.S. Allopathic Seniors

*Anesthesiology*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Number of Applicants</th>
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<tbody>
<tr>
<td>None</td>
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<td>3</td>
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<td>5 or More</td>
<td>240</td>
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<td></td>
<td>11</td>
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**Source:** NRMP Data Warehouse

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**Chart AN-6**

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

*Anesthesiology*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Publications</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>143</td>
</tr>
<tr>
<td>1</td>
<td>132</td>
</tr>
<tr>
<td>2</td>
<td>122</td>
</tr>
<tr>
<td>3</td>
<td>108</td>
</tr>
<tr>
<td>4</td>
<td>84</td>
</tr>
<tr>
<td>5 or More</td>
<td>423</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse

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Other Characteristics of U.S. Seniors
Anesthesiology

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
## Table CN-1

### Summary Statistics on U.S. Allopathic Seniors

#### Child Neurology

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=97)</th>
<th>Unmatched (n=1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>11.8</td>
<td>8.0</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.2</td>
<td>1.0</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>233</td>
<td>211</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>246</td>
<td>234</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.3</td>
<td>3.0</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>6.3</td>
<td>0.0</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.0</td>
<td>2.0</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.9</td>
<td>4.0</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>14.4</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>38.1</td>
<td>0.0</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>10.5</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>10.9</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart CN-1
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors
Child Neurology

Number of Applicants

Distinct Specialties Ranked

Matched  Not Matched

Chart CN-2
Number of Contiguous Ranks of U.S. Allopathic Seniors
Child Neurology

Number of Applicants

Contiguous Ranks

Matched  Not Matched

Source: NRMP Data Warehouse

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Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Child Neurology

Number of Contiguous Ranks vs. Probability of Matching

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Chart CN-3

USMLE Step 1 Scores of U.S. Allopathic Seniors
Child Neurology

Chart CN-4

USMLE Step 2 CK Scores of U.S. Allopathic Seniors
Child Neurology
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Number of Research Projects of U.S. Allopathic Seniors

*Child Neurology*

- **Chart CN-5**
  - **Number of Applicants**
  - **Research Projects**: None, 1, 2, 3, 4, 5 or More
  - **Matched**: Bar graph showing the number of applicants matched for each category.

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

*Child Neurology*

- **Chart CN-6**
  - **Number of Applicants**
  - **Publications**: None, 1, 2, 3, 4, 5 or More
  - **Matched**: Bar graph showing the number of applicants matched for each category.

*Source: NRMP Data Warehouse*

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Chart CN-7  
Number of Work Experiences of U.S. Allopathic Seniors  
*Child Neurology*  

**Chart CN-7**  
Number of Work Experiences of U.S. Allopathic Seniors  
*Child Neurology*  

**Chart CN-8**  
Number of Volunteer Experiences of U.S. Allopathic Seniors  
*Child Neurology*  

Source: NRMP Data Warehouse  
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Charting Outcomes in the Match:  
U.S. Allopathic Seniors, 2018
Chart CN-9  
Other Characteristics of U.S. Seniors

Child Neurology

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Dermatology
### Summary Statistics on U.S. Allopathic Seniors

#### Dermatology

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=340)</th>
<th>Unmatched (n=72)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>9.3</td>
<td>4.3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>2.3</td>
<td>2.4</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>249</td>
<td>241</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>256</td>
<td>249</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>5.2</td>
<td>4.8</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>14.7</td>
<td>8.6</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.1</td>
<td>3.3</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>9.1</td>
<td>7.5</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>49.1</td>
<td>22.2</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>47.6</td>
<td>25.0</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>6.2</td>
<td>4.2</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>16.4</td>
<td>18.3</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

**Sources.** NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
### Chart DM-1

**Number of Distinct Specialties Ranked by U.S. Allopathic Seniors**

*Dermatology*

- Chart depicting the number of distinct specialties ranked by matched and not matched applicants.

#### Key Points:
- **Matched**: 129
- **Not Matched**: 131
- **Number of Applicants**: 60

### Chart DM-2

**Number of Contiguous Ranks of U.S. Allopathic Seniors**

*Dermatology*

- Chart showing the number of contiguous ranks for matched and not matched applicants.

#### Key Points:
- **Matched**:
  - 1: 6
  - 2: 13
  - 3: 14
  - 4: 10
  - 5: 24
  - 6: 31
  - 7: 30
  - 8: 34
  - 9: 31
  - 10: 30
  - 11: 26
  - 12: 21
  - 13: 16
  - 14: 7
  - 15: 0
  - 16 or More: 28
- **Not Matched**:
  - 1: 6
  - 2: 13
  - 3: 14
  - 4: 10
  - 5: 24
  - 6: 31
  - 7: 30
  - 8: 34
  - 9: 31
  - 10: 30
  - 11: 26
  - 12: 21
  - 13: 16
  - 14: 7
  - 15: 0
  - 16 or More: 28

*Source: NRMP Data Warehouse*

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Dermatology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
USMLE Step 1 Scores of U.S. Allopathic Seniors
Dermatology

Chart DM-3

Step 1 Scores

Number of Applicants

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Between 181 and 190</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Between 191 and 200</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Between 201 and 210</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Between 221 and 230</td>
<td>19</td>
<td>6</td>
</tr>
<tr>
<td>Between 231 and 240</td>
<td>42</td>
<td>18</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>98</td>
<td>22</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>114</td>
<td>13</td>
</tr>
<tr>
<td>&gt;260</td>
<td>58</td>
<td>6</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

USMLE Step 2 CK Scores of U.S. Allopathic Seniors
Dermatology

Chart DM-4

Step 2 CK Scores

Number of Applicants

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
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<td>0</td>
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<tr>
<td>Between 181 and 190</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Between 191 and 200</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Between 201 and 210</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Between 211 and 220</td>
<td>5</td>
<td>3</td>
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<td>Between 221 and 230</td>
<td>30</td>
<td>16</td>
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<td>Between 231 and 240</td>
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<td>15</td>
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<tr>
<td>Between 241 and 250</td>
<td>102</td>
<td>18</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>131</td>
<td>15</td>
</tr>
<tr>
<td>&gt;260</td>
<td>15</td>
<td>3</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>13</td>
<td>3</td>
</tr>
</tbody>
</table>
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

**Dermatology**

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Chart DM-5  Number of Research Projects of U.S. Allopathic Seniors

Dermatology

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>25</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>57</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>53</td>
<td>13</td>
</tr>
<tr>
<td>5 or More</td>
<td>191</td>
<td>40</td>
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</table>

Number of Applicants

Source: NRMP Data Warehouse

Chart DM-6  Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

Dermatology

<table>
<thead>
<tr>
<th>Publications</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>11</td>
<td>8</td>
</tr>
<tr>
<td>5 or More</td>
<td>311</td>
<td>57</td>
</tr>
</tbody>
</table>

Number of Applicants

Source: NRMP Data Warehouse

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### Number of Work Experiences of U.S. Allopathic Seniors

**Dermatology**

**Chart DM-7**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Work Experiences</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>14, 5</td>
</tr>
<tr>
<td>1</td>
<td>61</td>
</tr>
<tr>
<td>2</td>
<td>68</td>
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<td>3</td>
<td>42</td>
</tr>
<tr>
<td>4</td>
<td>48</td>
</tr>
<tr>
<td>5 or More</td>
<td>107, 27</td>
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</table>

### Number of Volunteer Experiences of U.S. Allopathic Seniors

**Dermatology**

**Chart DM-8**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Volunteer Experiences</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0, 0</td>
</tr>
<tr>
<td>1</td>
<td>2, 3</td>
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<td>2</td>
<td>8, 1</td>
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<tr>
<td>3</td>
<td>14, 8</td>
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<tr>
<td>4</td>
<td>21</td>
</tr>
<tr>
<td>5</td>
<td>17</td>
</tr>
<tr>
<td>6</td>
<td>27</td>
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<td>7</td>
<td>31</td>
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<td>8</td>
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<tr>
<td>9</td>
<td>21, 3</td>
</tr>
<tr>
<td>10 or More</td>
<td>169, 30</td>
</tr>
</tbody>
</table>
Other Characteristics of U.S. Seniors

**Dermatology**

**AOA Membership**

<table>
<thead>
<tr>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>167</td>
</tr>
<tr>
<td>No</td>
<td>147</td>
</tr>
</tbody>
</table>

**Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding**

<table>
<thead>
<tr>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>Yes</td>
<td>162</td>
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<tr>
<td>No</td>
<td>178</td>
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</tbody>
</table>

**Ph.D. Degree**

<table>
<thead>
<tr>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>320</td>
</tr>
<tr>
<td>No</td>
<td>20</td>
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</tbody>
</table>

**Other Graduate Degree**

<table>
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<tr>
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<th>Not Matched</th>
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</thead>
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<tr>
<td>Yes</td>
<td>288</td>
</tr>
<tr>
<td>No</td>
<td>52</td>
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</tbody>
</table>

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
### Summary Statistics on U.S. Allopathic Seniors

#### Diagnostic Radiology

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=621)</th>
<th>Unmatched (n=71)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.5</td>
<td>6.8</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.6</td>
<td>1.9</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>240</td>
<td>223</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>249</td>
<td>235</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.7</td>
<td>3.2</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>6.0</td>
<td>3.9</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>2.9</td>
<td>3.3</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.4</td>
<td>5.4</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>15.8</td>
<td>7.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>30.0</td>
<td>14.1</td>
</tr>
<tr>
<td>with the highest NIH funding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>4.6</td>
<td>4.6</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>16.8</td>
<td>24.6</td>
</tr>
</tbody>
</table>

**Note:** Only U.S. allopathic seniors who gave consent to use their information in research are included.

**Sources.** NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart DR-1

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

Diagnostic Radiology

- **Matched**
- **Not Matched**

Distinct Specialties Ranked

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>376</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>125</td>
<td>26</td>
</tr>
<tr>
<td>3</td>
<td>101</td>
<td>9</td>
</tr>
<tr>
<td>4 or More</td>
<td>17</td>
<td>5</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

Chart DR-2

Number of Contiguous Ranks of U.S. Allopathic Seniors

Diagnostic Radiology

- **Matched**
- **Not Matched**

Contiguous Ranks

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>28</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>14</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>11</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>19</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>22</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>18</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>54</td>
<td>5</td>
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<td>10</td>
<td>39</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>51</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>52</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>62</td>
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<td>14</td>
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<tr>
<td>15</td>
<td>170</td>
<td>3</td>
</tr>
<tr>
<td>16 or More</td>
<td>17</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse
Graph DR-1

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Diagnostic Radiology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Graph DR-2

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Diagnostic Radiology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
### Chart DR-5: Number of Research Projects of U.S. Allopathic Seniors

**Diagnostic Radiology**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>59</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>89</td>
<td>17</td>
</tr>
<tr>
<td>3</td>
<td>133</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>107</td>
<td>7</td>
</tr>
<tr>
<td>5 or More</td>
<td>221</td>
<td>25</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

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### Chart DR-6: Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

**Diagnostic Radiology**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Publications</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>46</td>
<td>7</td>
</tr>
<tr>
<td>1</td>
<td>54</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>59</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>70</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>60</td>
<td>4</td>
</tr>
<tr>
<td>5 or More</td>
<td>332</td>
<td>27</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

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Other Characteristics of U.S. Seniors

**Diagnosis Radiology**

**AOA Membership**

- Matched: Yes - 98, No - 60
- Not Matched: Yes - 5, No - 484

**Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding**

- Matched: Yes - 435, No - 61
- Not Matched: Yes - 186, No - 60

**Ph.D. Degree**

- Matched: Yes - 594, No - 68
- Not Matched: Yes - 27, No - 5

**Other Graduate Degree**

- Matched: Yes - 522, No - 55
- Not Matched: Yes - 99, No - 16

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
### Table EM-1

**Summary Statistics on U.S. Allopathic Seniors**  
*Emergency Medicine*

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=1,538)</th>
<th>Unmatched (n=141)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.8</td>
<td>5.0</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.1</td>
<td>1.6</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>233</td>
<td>220</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>247</td>
<td>233</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.5</td>
<td>2.3</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>3.7</td>
<td>2.9</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.5</td>
<td>3.6</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.3</td>
<td>6.3</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>12.4</td>
<td>0.7</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>27.6</td>
<td>19.9</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>1.2</td>
<td>0.7</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>16.9</td>
<td>17.5</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

*SOURCES:* NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart EM-1
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors
_Emergency Medicine_

- **Matched**
- **Not Matched**

Number of Applicants vs. Distinct Specialties Ranked

Source: NRMP Data Warehouse

Chart EM-2
Number of Contiguous Ranks of U.S. Allopathic Seniors
_Emergency Medicine_

- **Matched**
- **Not Matched**

Number of Applicants vs. Contiguous Ranks

Source: NRMP Data Warehouse

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Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Chart EM-3

USMLE Step 1 Scores of U.S. Allopathic Seniors
Emergency Medicine

Chart EM-4

USMLE Step 2 CK Scores of U.S. Allopathic Seniors
Emergency Medicine

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Number of Research Projects of U.S. Allopathic Seniors

Emergency Medicine

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>113</td>
<td>9</td>
</tr>
<tr>
<td>1</td>
<td>294</td>
<td>39</td>
</tr>
<tr>
<td>2</td>
<td>367</td>
<td>29</td>
</tr>
<tr>
<td>3</td>
<td>303</td>
<td>27</td>
</tr>
<tr>
<td>4</td>
<td>173</td>
<td>14</td>
</tr>
<tr>
<td>5 or More</td>
<td>288</td>
<td>23</td>
</tr>
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</table>

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

Emergency Medicine

<table>
<thead>
<tr>
<th>Publications</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
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<td>27</td>
</tr>
<tr>
<td>1</td>
<td>217</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>199</td>
<td>29</td>
</tr>
<tr>
<td>3</td>
<td>158</td>
<td>15</td>
</tr>
<tr>
<td>4</td>
<td>136</td>
<td>8</td>
</tr>
<tr>
<td>5 or More</td>
<td>545</td>
<td>37</td>
</tr>
</tbody>
</table>
Other Characteristics of U.S. Seniors

Emergency Medicine

Chart EM-9

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=1,438)</th>
<th>Unmatched (n=55)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>11.4</td>
<td>3.9</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.1</td>
<td>1.4</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>220</td>
<td>206</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>237</td>
<td>223</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.1</td>
<td>2.7</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>3.0</td>
<td>2.3</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.3</td>
<td>4.1</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.7</td>
<td>6.1</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>7.4</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>27.7</td>
<td>21.8</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>1.0</td>
<td>2.1</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>17.6</td>
<td>36.0</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
**Chart FM-1**

**Number of Distinct Specialties Ranked by U.S. Allopathic Seniors**

*Family Medicine*

- **Matched**
- **Not Matched**

```
Number of Applicants

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,354</td>
<td>36</td>
</tr>
<tr>
<td>2</td>
<td>77</td>
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</tr>
<tr>
<td>3</td>
<td>87</td>
<td>7</td>
</tr>
<tr>
<td>4 or More</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
```

**Source:** NRMP Data Warehouse

---

**Chart FM-2**

**Number of Contiguous Ranks of U.S. Allopathic Seniors**

*Family Medicine*

- **Matched**
- **Not Matched**

```
Number of Applicants

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>21</td>
<td>11</td>
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<td>3</td>
<td>25</td>
<td>11</td>
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<tr>
<td>4</td>
<td>24</td>
<td>11</td>
</tr>
<tr>
<td>5</td>
<td>34</td>
<td>11</td>
</tr>
<tr>
<td>6</td>
<td>33</td>
<td>11</td>
</tr>
<tr>
<td>7</td>
<td>62</td>
<td>11</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>0</td>
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<tr>
<td>9</td>
<td>5</td>
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<tr>
<td>10</td>
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<td>0</td>
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<tr>
<td>11</td>
<td>87</td>
<td>0</td>
</tr>
<tr>
<td>12</td>
<td>125</td>
<td>0</td>
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<tr>
<td>13</td>
<td>122</td>
<td>0</td>
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<tr>
<td>14</td>
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<tr>
<td>15</td>
<td>106</td>
<td>0</td>
</tr>
<tr>
<td>16 or More</td>
<td>287</td>
<td>1</td>
</tr>
</tbody>
</table>
```

**Source:** NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

**Family Medicine**

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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USMLE Step 1 Scores of U.S. Allopathic Seniors

Family Medicine

Chart FM-3

Step 1 Scores

Chart FM-4

USMLE Step 2 CK Scores of U.S. Allopathic Seniors

Family Medicine

Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
Graph FM-2

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Family Medicine

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Number of Research Projects of U.S. Allopathic Seniors

Family Medicine

Chart FM-5

Source: NRMP Data Warehouse

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Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

Family Medicine

Chart FM-6

Source: NRMP Data Warehouse

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Chart FM-7
Number of Work Experiences of U.S. Allopathic Seniors
Family Medicine

Chart FM-8
Number of Volunteer Experiences of U.S. Allopathic Seniors
Family Medicine

Source: NRMP Data Warehouse
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Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
Other Characteristics of U.S. Seniors

Family Medicine

Chart FM-9

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
General Surgery
## Summary Statistics on U.S. Allopathic Seniors
### General Surgery

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=919)</th>
<th>Unmatched (n=161)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>13.1</td>
<td>5.2</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>236</td>
<td>219</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>248</td>
<td>233</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.6</td>
<td>3.1</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>6.2</td>
<td>4.7</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.2</td>
<td>3.5</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.0</td>
<td>6.6</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>18.7</td>
<td>1.2</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>28.9</td>
<td>23.6</td>
</tr>
<tr>
<td>with the highest NIH funding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>2.0</td>
<td>3.8</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>18.7</td>
<td>22.4</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Graph GS-1

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

General Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Chart GS-3

USMLE Step 1 Scores of U.S. Allopathic Seniors
General Surgery

Chart GS-4

USMLE Step 2 CK Scores of U.S. Allopathic Seniors
General Surgery
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

General Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Chart GS-7

Number of Work Experiences of U.S. Allopathic Seniors
General Surgery

Chart GS-8

Number of Volunteer Experiences of U.S. Allopathic Seniors
General Surgery

Source: NRMP Data Warehouse

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**Other Characteristics of U.S. Seniors**

**General Surgery**

**AOA Membership**
- Matched: 701 (Yes), 154 (No)
- Not Matched: 2 (Yes), 172 (No)

**Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding**
- Matched: 653 (Yes), 123 (No)
- Not Matched: 38 (Yes), 266 (No)

**Ph.D. Degree**
- Matched: 901 (Yes), 155 (No)
- Not Matched: 6 (Yes), 18 (No)

**Other Graduate Degree**
- Matched: 754 (Yes), 126 (No)
- Not Matched: 35 (Yes), 165 (No)

*Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm*
# Summary Statistics on U.S. Allopathic Seniors

*Internal Medicine*

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=3,070)</th>
<th>Unmatched (n=59)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.6</td>
<td>3.6</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.0</td>
<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>233</td>
<td>207</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>246</td>
<td>223</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.1</td>
<td>2.1</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>5.1</td>
<td>2.9</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>2.9</td>
<td>3.4</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.8</td>
<td>5.5</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>16.7</td>
<td>1.7</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>33.6</td>
<td>15.3</td>
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<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>4.9</td>
<td>1.8</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>17.6</td>
<td>35.7</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart IM-1
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors
*Internal Medicine*

![Chart IM-1](chart1.png)

Source: NRMP Data Warehouse

Chart IM-2
Number of Contiguous Ranks of U.S. Allopathic Seniors
*Internal Medicine*

![Chart IM-2](chart2.png)

Source: NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
### USMLE Step 1 Scores of U.S. Allopathic Seniors

**Internal Medicine**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Between 181 and 190</td>
<td>2</td>
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<tr>
<td>Between 191 and 199</td>
<td>109</td>
<td>25</td>
</tr>
<tr>
<td>Between 201 and 209</td>
<td>231</td>
<td>16</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>390</td>
<td>7</td>
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<tr>
<td>Between 221 and 230</td>
<td>509</td>
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<tr>
<td>Between 231 and 240</td>
<td>648</td>
<td>3</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>602</td>
<td>1</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>412</td>
<td>1</td>
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<tr>
<td>&gt; 260</td>
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<tr>
<td>Score Unknown</td>
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<td>1</td>
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</table>

**Chart IM-3**

### USMLE Step 2 CK Scores of U.S. Allopathic Seniors

**Internal Medicine**

<table>
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<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
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<td>0</td>
</tr>
<tr>
<td>Between 181 and 190</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Between 191 and 199</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Between 201 and 209</td>
<td>19</td>
<td>6</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>175</td>
<td>17</td>
</tr>
<tr>
<td>Between 221 and 230</td>
<td>307</td>
<td>18</td>
</tr>
<tr>
<td>Between 231 and 240</td>
<td>484</td>
<td>6</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>684</td>
<td>3</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>724</td>
<td>0</td>
</tr>
<tr>
<td>&gt; 260</td>
<td>585</td>
<td>1</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>91</td>
<td>6</td>
</tr>
</tbody>
</table>

**Chart IM-4**
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Internal Medicine

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Chart IM-5
Number of Research Projects of U.S. Allopathic Seniors
Internal Medicine

Chart IM-6
Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
Internal Medicine

Source: NRMP Data Warehouse
Copyright ©2018 NRMP. Reproduction prohibited without the written permission of the NRMP.
### Number of Work Experiences of U.S. Allopathic Seniors

**Internal Medicine**

- **Matched**
- **Not Matched**

![Chart IM-7](chart.png)

### Number of Volunteer Experiences of U.S. Allopathic Seniors

**Internal Medicine**

- **Matched**
- **Not Matched**

![Chart IM-8](chart.png)

**Source:** NRMP Data Warehouse

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Other Characteristics of U.S. Seniors

Internal Medicine

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=285)</th>
<th>Unmatched (n=19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>10.9</td>
<td>3.8</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.3</td>
<td>1.7</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>235</td>
<td>217</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>250</td>
<td>229</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.8</td>
<td>2.6</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>4.8</td>
<td>4.9</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.4</td>
<td>3.0</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>8.7</td>
<td>7.6</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>24.9</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>34.7</td>
<td>15.8</td>
</tr>
<tr>
<td>with the highest NIH funding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>2.9</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>20.3</td>
<td>22.2</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
**Chart IP-1**

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

*Internal Medicine/Pediatrics*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Distinct Specialties Ranks</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>212</td>
</tr>
<tr>
<td>2</td>
<td>68</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>4 or More</td>
<td>0</td>
</tr>
</tbody>
</table>

**Chart IP-2**

Number of Contiguous Ranks of U.S. Allopathic Seniors

*Internal Medicine/Pediatrics*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>28</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>19</td>
</tr>
<tr>
<td>11</td>
<td>32</td>
</tr>
<tr>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>25</td>
</tr>
<tr>
<td>14</td>
<td>29</td>
</tr>
<tr>
<td>15</td>
<td>25</td>
</tr>
<tr>
<td>16 or More</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

*Source: NRMP Data Warehouse*
Graph IP-1

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Internal Medicine/Pediatrics

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Internal Medicine/Pediatrics

*Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.*
**Chart IP-5**
Number of Research Projects of U.S. Allopathic Seniors
*Internal Medicine/Pediatrics*

![Bar Chart](image)

**Chart IP-6**
Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
*Internal Medicine/Pediatrics*

![Bar Chart](image)

*Source: NRMP Data Warehouse*

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Chart IP-7
Number of Work Experiences of U.S. Allopathic Seniors
*Internal Medicine/Pediatrics*

Chart IP-8
Number of Volunteer Experiences of U.S. Allopathic Seniors
*Internal Medicine/Pediatrics*
Other Characteristics of U.S. Seniors

Internal Medicine/Pediatrics

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

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Interventional Radiology
## Summary Statistics on U.S. Allopathic Seniors

### Interventional Radiology

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=118)</th>
<th>Unmatched (n=83)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean number of contiguous ranks</td>
<td>5.4</td>
<td>2.5</td>
</tr>
<tr>
<td>Mean number of distinct specialties ranked</td>
<td>2.3</td>
<td>2.4</td>
</tr>
<tr>
<td>Mean USMLE Step 1 score</td>
<td>246</td>
<td>242</td>
</tr>
<tr>
<td>Mean USMLE Step 2 score</td>
<td>255</td>
<td>248</td>
</tr>
<tr>
<td>Mean number of research experiences</td>
<td>4.4</td>
<td>3.8</td>
</tr>
<tr>
<td>Mean number of abstracts, presentations, and publications</td>
<td>8.4</td>
<td>7.3</td>
</tr>
<tr>
<td>Mean number of work experiences</td>
<td>3.2</td>
<td>2.6</td>
</tr>
<tr>
<td>Mean number of volunteer experiences</td>
<td>6.8</td>
<td>6.1</td>
</tr>
<tr>
<td>Percentage who are AOA members</td>
<td>30.5</td>
<td>12.0</td>
</tr>
<tr>
<td>Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>30.5</td>
<td>30.1</td>
</tr>
<tr>
<td>Percentage who have Ph.D. degree</td>
<td>6.1</td>
<td>4.9</td>
</tr>
<tr>
<td>Percentage who have another graduate degree</td>
<td>15.2</td>
<td>11.1</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart IR-1

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors
*Interventional Radiology*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>96</td>
<td>61</td>
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<tr>
<td>3</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>4 or More</td>
<td>5</td>
<td>8</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

---

Chart IR-2

Number of Contiguous Ranks of U.S. Allopathic Seniors
*Interventional Radiology*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>2</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>3</td>
<td>28</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>6</td>
<td>14</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>16</td>
<td>0</td>
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<td>8</td>
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<td>4</td>
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<tr>
<td>9</td>
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<tr>
<td>10</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>11</td>
<td>0</td>
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</tr>
<tr>
<td>12</td>
<td>0</td>
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<tr>
<td>14</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>15</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>16 or More</td>
<td>8</td>
<td>2</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse
Graph IR-1

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

*Interventional Radiology*

![Graph showing the probability of matching for Interventional Radiology by the number of contiguous ranks.](image)

**Source:** NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

*Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018*
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Interventional Radiology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
### Number of Research Projects of U.S. Allopathic Seniors

**Interventional Radiology**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>36</td>
<td>22</td>
</tr>
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<td>3</td>
<td>34</td>
<td>34</td>
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<tr>
<td>4</td>
<td>56</td>
<td>30</td>
</tr>
<tr>
<td>5 or More</td>
<td>104</td>
<td>60</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

### Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

**Interventional Radiology**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Publications</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>11</td>
<td>8</td>
</tr>
<tr>
<td>5 or More</td>
<td>77</td>
<td>47</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

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Number of Work Experiences of U.S. Allopathic Seniors
*Interventional Radiology*

Number of Volunteer Experiences of U.S. Allopathic Seniors
*Interventional Radiology*

Source: NRMP Data Warehouse

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Other Characteristics of U.S. Seniors

*Interventional Radiology*

**AOA Membership**
- Matched: 69, Not Matched: 10
- Matched: 36, Not Matched: 10

**Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding**
- Matched: 82, Not Matched: 58
- Matched: 36, Not Matched: 25

**Ph.D. Degree**
- Matched: 79, Not Matched: 74
- Matched: 111, Not Matched: 4

**Other Graduate Degree**
- Matched: 74, Not Matched: 74
- Matched: 101, Not Matched: 17

*Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm*
**Table NS-1**

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=188)</th>
<th>Unmatched (n=28)</th>
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<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>16.4</td>
<td>8.5</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.0</td>
<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>245</td>
<td>234</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>249</td>
<td>238</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>5.2</td>
<td>4.4</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>18.3</td>
<td>8.9</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.2</td>
<td>2.5</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.0</td>
<td>6.9</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>31.9</td>
<td>21.4</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>43.6</td>
<td>10.7</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>13.6</td>
<td>3.8</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>20.0</td>
<td>28.0</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources: NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart NS-1

**Number of Distinct Specialties Ranked by U.S. Allopathic Seniors**

*Neurological Surgery*

- Number of Applicants
- Matched vs. Not Matched

Chart NS-2

**Number of Contiguous Ranks of U.S. Allopathic Seniors**

*Neurological Surgery*

- Number of Applicants
- Matched vs. Not Matched

Source: NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Neurological Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
**USMLE Step 1 Scores of U.S. Allopathic Seniors**

*Neurological Surgery*

![Chart NS-3](chart-ns-3.png)

**USMLE Step 2 CK Scores of U.S. Allopathic Seniors**

*Neurological Surgery*

![Chart NS-4](chart-ns-4.png)
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Neurological Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Chart NS-5
Number of Research Projects of U.S. Allopathic Seniors
Neurological Surgery

Chart NS-6
Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
Neurological Surgery

Source: NRMP Data Warehouse
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Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
Chart NS-7  Number of Work Experiences of U.S. Allopathic Seniors  
*Neurological Surgery*  

![Bar chart showing the number of work experiences for U.S. allopathic seniors in neurological surgery.](image)

Chart NS-8  Number of Volunteer Experiences of U.S. Allopathic Seniors  
*Neurological Surgery*  

![Bar chart showing the number of volunteer experiences for U.S. allopathic seniors in neurological surgery.](image)
Other Characteristics of U.S. Seniors

Neurological Surgery

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
Neurology
<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=437)</th>
<th>Unmatched (n=16)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>11.7</td>
<td>4.0</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.2</td>
<td>1.7</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>231</td>
<td>213</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>242</td>
<td>229</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.6</td>
<td>3.4</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>6.3</td>
<td>7.3</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>2.9</td>
<td>3.1</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.5</td>
<td>6.8</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>11.9</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>33.9</td>
<td>25.0</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>12.1</td>
<td>13.3</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>16.7</td>
<td>37.5</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.
Sources: NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart N-1  
**Number of Distinct Specialties Ranked by U.S. Allopathic Seniors**  
*Neurology*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>345</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>79</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>4 or More</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Number of Applicants**

- **Matched**
- **Not Matched**

Source: NRMP Data Warehouse

---

Chart N-2  
**Number of Contiguous Ranks of U.S. Allopathic Seniors**  
*Neurology*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
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<td>3</td>
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<td>4</td>
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<td>5</td>
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</tr>
<tr>
<td>6</td>
<td>6</td>
<td>0</td>
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<td>7</td>
<td>16</td>
<td>1</td>
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<td>8</td>
<td>34</td>
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<td>15</td>
<td>40</td>
<td>0</td>
</tr>
<tr>
<td>16 or More</td>
<td>70</td>
<td>0</td>
</tr>
</tbody>
</table>

**Number of Applicants**

Source: NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Neurology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Neurology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
**Chart N-5**

**Number of Research Projects of U.S. Allopathic Seniors**

**Neurology**

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>9</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>47</td>
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<tr>
<td>2</td>
<td>80</td>
<td>3</td>
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<td>3</td>
<td>81</td>
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<tr>
<td>4</td>
<td>74</td>
<td>0</td>
</tr>
<tr>
<td>5 or More</td>
<td>146</td>
<td>5</td>
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</tbody>
</table>

**Chart N-6**

**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors**

**Neurology**

<table>
<thead>
<tr>
<th>Publications</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>37</td>
<td>1</td>
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<tr>
<td>1</td>
<td>46</td>
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<tr>
<td>2</td>
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<td>3</td>
<td>42</td>
<td>3</td>
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<tr>
<td>4</td>
<td>42</td>
<td>0</td>
</tr>
<tr>
<td>5 or More</td>
<td>226</td>
<td>7</td>
</tr>
</tbody>
</table>

*Source: NRMP Data Warehouse*

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Chart N-7
Number of Work Experiences of U.S. Allopathic Seniors
Neurology

Chart N-8
Number of Volunteer Experiences of U.S. Allopathic Seniors
Neurology

Source: NRMP Data Warehouse
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Other Characteristics of U.S. Seniors

Neurology

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm

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### Summary Statistics on U.S. Allopathic Seniors

**Obstetrics and Gynecology**

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=1,005)</th>
<th>Unmatched (n=132)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.4</td>
<td>7.4</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>230</td>
<td>218</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>247</td>
<td>235</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>3.4</td>
<td>2.9</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>4.9</td>
<td>3.3</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>8.5</td>
<td>8.0</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>16.2</td>
<td>3.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>33.8</td>
<td>17.4</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>1.3</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>18.5</td>
<td>20.8</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

**Sources.** NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart OB-1

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

*Obstetrics and Gynecology*

- Matched
- Not Matched

Chart OB-2

Number of Contiguous Ranks of U.S. Allopathic Seniors

*Obstetrics and Gynecology*

- Matched
- Not Matched

Source: NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

**Obstetrics and Gynecology**

**Graph OB-1**

**Probability of Matching**

**Number of Contiguous Ranks**

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Chart OB-3
USMLE Step 1 Scores of U.S. Allopathic Seniors
Obstetrics and Gynecology

Chart OB-4
USMLE Step 2 CK Scores of U.S. Allopathic Seniors
Obstetrics and Gynecology
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Probability of Matching

Step 1 Score

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
**Chart OB-5: Number of Research Projects of U.S. Allopathic Seniors**

*Obstetrics and Gynecology*

![Bar chart showing the number of research projects with a comparison between matched and not matched applicants.](chart_ob-5)

**Chart OB-6: Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors**

*Obstetrics and Gynecology*

![Bar chart showing the number of publications with a comparison between matched and not matched applicants.](chart_ob-6)
Chart OB-7: Number of Work Experiences of U.S. Allopathic Seniors
*Obstetrics and Gynecology*

- **Matched** and **Not Matched** bars are shown for each number of work experiences.
- The chart shows the number of applicants for each category of work experiences:
  - None: 47 Matched, 11 Not Matched
  - 1: 149 Matched, 11 Not Matched
  - 2: 172 Matched, 18 Not Matched
  - 3: 181 Matched, 23 Not Matched
  - 4: 112 Matched, 8 Not Matched
  - 5 or More: 344 Matched, 50 Not Matched

Chart OB-8: Number of Volunteer Experiences of U.S. Allopathic Seniors
*Obstetrics and Gynecology*

- **Matched** and **Not Matched** bars are shown for each number of volunteer experiences.
- The chart shows the number of applicants for each category of volunteer experiences:
  - None: 2 Matched, 1 Not Matched
  - 1: 19 Matched, 5 Not Matched
  - 2: 60 Matched, 14 Not Matched
  - 3: 105 Matched, 11 Not Matched
  - 4: 86 Matched, 12 Not Matched
  - 5: 100 Matched, 11 Not Matched
  - 6: 109 Matched, 10 Not Matched
  - 7: 67 Matched, 6 Not Matched
  - 8: 6 Matched, 6 Not Matched
  - 9 or More: 414 Matched, 54 Not Matched

*Source: NRMP Data Warehouse*
Other Characteristics of U.S. Seniors

Obstetrics and Gynecology

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm

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## Table ORS-1

### Summary Statistics on U.S. Allopathic Seniors

*Orthopaedic Surgery*

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=678)</th>
<th>Unmatched (n=132)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.5</td>
<td>6.6</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>248</td>
<td>240</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>255</td>
<td>246</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>4.9</td>
<td>4.9</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>11.5</td>
<td>6.7</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.2</td>
<td>3.4</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.3</td>
<td>6.3</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>40.4</td>
<td>15.9</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>31.9</td>
<td>26.5</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>1.4</td>
<td>2.4</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>13.1</td>
<td>21.6</td>
</tr>
</tbody>
</table>

*Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.*

*Sources.* NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Orthopaedic Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Orthopaedic Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Chart ORS-5

Number of Research Projects of U.S. Allopathic Seniors
Orthopaedic Surgery

Chart ORS-6

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
Orthopaedic Surgery

Source: NRMP Data Warehouse

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Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
Other Characteristics of U.S. Seniors
Orthopaedic Surgery

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
## Summary Statistics on U.S. Allopathic Seniors

### Otolaryngology

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=276)</th>
<th>Unmatched (n=12)</th>
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<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>14.3</td>
<td>5.7</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.0</td>
<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>248</td>
<td>238</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>254</td>
<td>242</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>5.3</td>
<td>3.6</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>10.4</td>
<td>5.3</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.3</td>
<td>3.7</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.6</td>
<td>8.1</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>40.2</td>
<td>8.3</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools</td>
<td>30.1</td>
<td>8.3</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>4.6</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>21.9</td>
<td>27.3</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart OTO-1

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

Otolaryngology

![Chart OTO-1](chart1.png)

Source: NRMP Data Warehouse

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Chart OTO-2

Number of Contiguous Ranks of U.S. Allopathic Seniors

Otolaryngology

![Chart OTO-2](chart2.png)

Source: NRMP Data Warehouse

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Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Otolaryngology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Charting Outcomes in the Match:
U.S. Allopathic Seniors, 2018
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Otolaryngology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Number of Research Projects of U.S. Allopathic Seniors

Otolaryngology

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

Otolaryngology

Source: NRMP Data Warehouse

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Number of Work Experiences of U.S. Allopathic Seniors

**Otolaryngology**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Work Experiences</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>39</td>
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<td>2</td>
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<td>4</td>
<td>38</td>
</tr>
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<td>5 or More</td>
<td>95</td>
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</table>

Source: NRMP Data Warehouse

Chart OTO-7

Number of Volunteer Experiences of U.S. Allopathic Seniors

**Otolaryngology**

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Volunteer Experiences</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
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<td>0</td>
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<tr>
<td>2</td>
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<td>9</td>
<td>18</td>
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<tr>
<td>10 or More</td>
<td>98</td>
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</table>

Source: NRMP Data Warehouse

Chart OTO-8

Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018

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Other Characteristics of U.S. Seniors

Otolaryngology

Chart OTO-9

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
### Table PTH-1

**Summary Statistics on U.S. Allopathic Seniors**  
*Pathology*

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=194)</th>
<th>Unmatched (n=4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>10.8</td>
<td>6.3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.0</td>
<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>233</td>
<td>216</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>242</td>
<td>238</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.9</td>
<td>2.8</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>6.7</td>
<td>6.8</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>2.9</td>
<td>4.8</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>5.5</td>
<td>5.5</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>8.8</td>
<td>25.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>38.7</td>
<td>50.0</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>22.6</td>
<td>25.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>23.1</td>
<td>50.0</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

**Sources.** NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
### Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

**Pathology**

- **Chart PTH-1**

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>190</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
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<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>5 or More</td>
<td>0</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse

### Number of Contiguous Ranks of U.S. Allopathic Seniors

**Pathology**

- **Chart PTH-2**

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
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<tr>
<td>3</td>
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<tr>
<td>15</td>
<td>0</td>
</tr>
<tr>
<td>16 or More</td>
<td>13</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

**Pathology**

Probability of Matching

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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**USMLE Step 1 Scores of U.S. Allopathic Seniors**

*Pathology*

**USMLE Step 2 CK Scores of U.S. Allopathic Seniors**

*Pathology*
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Pathology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Number of Research Projects of U.S. Allopathic Seniors
Pathology

Source: NRMP Data Warehouse

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Chart PTH-6
Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
Pathology

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Chart Outcomes in the Match:
U.S. Allopathic Seniors, 2018
**Chart PTH-7**

**Number of Work Experiences of U.S. Allopathic Seniors**

*Pathology*

![Bar chart showing the number of work experiences for U.S. allopathic seniors in pathology. The chart displays the number of applicants matched and not matched for each category of work experiences (0, 1, 2, 3, 4, or 5 or more).]

**Source:** NRMP Data Warehouse

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---

**Chart PTH-8**

**Number of Volunteer Experiences of U.S. Allopathic Seniors**

*Pathology*

![Bar chart showing the number of volunteer experiences for U.S. allopathic seniors in pathology. The chart displays the number of applicants matched and not matched for each category of volunteer experiences (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 or more).]

**Source:** NRMP Data Warehouse

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Other Characteristics of U.S. Seniors

Pathology

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=1,640)</th>
<th>Unmatched (n=18)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>12.5</td>
<td>4.3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>227</td>
<td>209</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>243</td>
<td>222</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.8</td>
<td>2.5</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>4.1</td>
<td>3.2</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.1</td>
<td>3.2</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>8.3</td>
<td>6.6</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>14.6</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>29.8</td>
<td>5.6</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>3.1</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>14.7</td>
<td>14.3</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

*Pediatrics*

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,578</td>
</tr>
<tr>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>4 or More</td>
<td>0</td>
</tr>
</tbody>
</table>

**Chart PD-1**

Number of Contiguous Ranks of U.S. Allopathic Seniors

*Pediatrics*

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>31</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>4</td>
<td>14</td>
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<td>5</td>
<td>20</td>
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<td>6</td>
<td>24</td>
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<tr>
<td>7</td>
<td>1</td>
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<tr>
<td>8</td>
<td>51</td>
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<td>9</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>74</td>
</tr>
<tr>
<td>11</td>
<td>102</td>
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<td>12</td>
<td>134</td>
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<td>15</td>
<td>169</td>
</tr>
<tr>
<td>16 or More</td>
<td>167</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

**Chart PD-2**

Source: NRMP Data Warehouse

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

**Pediatrics**

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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### Chart PD-3: USMLE Step 1 Scores of U.S. Allopathic Seniors

**Pediatrics**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>114</td>
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</tr>
<tr>
<td>181-190</td>
<td>188</td>
<td>6</td>
</tr>
<tr>
<td>191-200</td>
<td>278</td>
<td>5</td>
</tr>
<tr>
<td>201-210</td>
<td>341</td>
<td>2</td>
</tr>
<tr>
<td>211-220</td>
<td>302</td>
<td>0</td>
</tr>
<tr>
<td>221-230</td>
<td>236</td>
<td>135</td>
</tr>
<tr>
<td>231-240</td>
<td>16</td>
<td>28</td>
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<tr>
<td>241-250</td>
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<tr>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>3</td>
<td>18</td>
</tr>
</tbody>
</table>

Number of Applicants

### Chart PD-4: USMLE Step 2 CK Scores of U.S. Allopathic Seniors

**Pediatrics**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
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<tr>
<td>181-190</td>
<td>169</td>
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<tr>
<td>191-200</td>
<td>109</td>
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<tr>
<td>201-210</td>
<td>216</td>
<td>3</td>
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<tr>
<td>211-220</td>
<td>319</td>
<td>2</td>
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<tr>
<td>221-230</td>
<td>419</td>
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<td>231-240</td>
<td>324</td>
<td>0</td>
</tr>
<tr>
<td>241-250</td>
<td>204</td>
<td>0</td>
</tr>
<tr>
<td>&gt;250</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Number of Applicants
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Pediatrics

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Chart PD-5

Number of Research Projects of U.S. Allopathic Seniors

Pediatrics

![Bar Chart](chart_PD-5)

Source: NRMP Data Warehouse

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Chart PD-6

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors

Pediatrics

![Bar Chart](chart_PD-6)
Chart PD-7 Number of Work Experiences of U.S. Allopathic Seniors

Pediatrics

<table>
<thead>
<tr>
<th>Work Experiences</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>97</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>237</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>331</td>
<td>2</td>
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<tr>
<td>3</td>
<td>285</td>
<td>2</td>
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<td>4</td>
<td>204</td>
<td>3</td>
</tr>
<tr>
<td>5 or More</td>
<td>486</td>
<td>8</td>
</tr>
</tbody>
</table>

Chart PD-8 Number of Volunteer Experiences of U.S. Allopathic Seniors

Pediatrics

<table>
<thead>
<tr>
<th>Volunteer Experiences</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>46</td>
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<tr>
<td>3</td>
<td>81</td>
<td>2</td>
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<tr>
<td>4</td>
<td>121</td>
<td>2</td>
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<td>5</td>
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<td>6</td>
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<td>7</td>
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<td>8</td>
<td>146</td>
<td>3</td>
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<tr>
<td>9</td>
<td>84</td>
<td>1</td>
</tr>
<tr>
<td>10 or More</td>
<td>686</td>
<td>7</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

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Chart PD-9
Other Characteristics of U.S. Seniors

Pediatrics

AOA Membership

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

Ph.D. Degree

Other Graduate Degree

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
### Summary Statistics on U.S. Allopathic Seniors

*Physical Medicine and Rehabilitation*

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=228)</th>
<th>Unmatched (n=31)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>13.1</td>
<td>6.4</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.6</td>
<td>2.0</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>225</td>
<td>215</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>239</td>
<td>229</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>2.9</td>
<td>2.9</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>4.2</td>
<td>3.4</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.4</td>
<td>2.5</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.8</td>
<td>6.6</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>5.3</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>24.1</td>
<td>25.8</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>2.4</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>14.8</td>
<td>17.2</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

*Sources.* NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
**Chart PM-1**

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

*Physical Medicine and Rehabilitation*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>133</td>
</tr>
<tr>
<td>2</td>
<td>58</td>
</tr>
<tr>
<td>3</td>
<td>32</td>
</tr>
<tr>
<td>4 or More</td>
<td>5</td>
</tr>
</tbody>
</table>

**Chart PM-2**

Number of Contiguous Ranks of U.S. Allopathic Seniors

*Physical Medicine and Rehabilitation*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
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<tr>
<td>2</td>
<td>5</td>
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<tr>
<td>3</td>
<td>7</td>
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<td>4</td>
<td>8</td>
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<td>5</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
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<tr>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>16 or More</td>
<td>81</td>
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</table>

*Source: NRMP Data Warehouse*
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

*Physical Medicine and Rehabilitation*

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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**Chart PM-3**

USMLE Step 1 Scores of U.S. Allopathic Seniors

*Physical Medicine and Rehabilitation*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>174</td>
<td>0</td>
</tr>
<tr>
<td>Between 181 and 190</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>Between 191 and 200</td>
<td>24</td>
<td>7</td>
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<tr>
<td>Between 201 and 210</td>
<td>52</td>
<td>11</td>
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<tr>
<td>Between 211 and 220</td>
<td>62</td>
<td>2</td>
</tr>
<tr>
<td>Between 221 and 230</td>
<td>36</td>
<td>5</td>
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<tr>
<td>Between 231 and 240</td>
<td>27</td>
<td>0</td>
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<tr>
<td>Between 241 and 250</td>
<td>10</td>
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<td>7</td>
<td>2</td>
</tr>
<tr>
<td>Score Unknown</td>
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<td>0</td>
</tr>
</tbody>
</table>

**Chart PM-4**

USMLE Step 2 CK Scores of U.S. Allopathic Seniors

*Physical Medicine and Rehabilitation*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Between 181 and 190</td>
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<td>0</td>
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<td>Between 211 and 220</td>
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<td>Between 221 and 230</td>
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<td>Between 231 and 240</td>
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<td>Between 241 and 250</td>
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<td>Between 251 and 260</td>
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<td>9</td>
<td>2</td>
</tr>
<tr>
<td>Score Unknown</td>
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<td>0</td>
</tr>
</tbody>
</table>
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Physical Medicine and Rehabilitation

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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### Chart PM-5
Number of Research Projects of U.S. Allopathic Seniors
*Physical Medicine and Rehabilitation*

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>27</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
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<tr>
<td>4</td>
<td>24</td>
<td>5</td>
</tr>
<tr>
<td>5 or More</td>
<td>63</td>
<td>7</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse

### Chart PM-6
Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
*Physical Medicine and Rehabilitation*

<table>
<thead>
<tr>
<th>Publications</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>1</td>
<td>19</td>
<td>5</td>
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<tr>
<td>2</td>
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<tr>
<td>3</td>
<td>30</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>19</td>
<td>0</td>
</tr>
<tr>
<td>5 or More</td>
<td>96</td>
<td>9</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Chart PM-7
Number of Work Experiences of U.S. Allopathic Seniors
Physical Medicine and Rehabilitation

Chart PM-8
Number of Volunteer Experiences of U.S. Allopathic Seniors
Physical Medicine and Rehabilitation

Source: NRMP Data Warehouse

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Other Characteristics of U.S. Seniors
Physical Medicine and Rehabilitation

AOA Membership

- Matched
- Not Matched

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

- Matched
- Not Matched

Ph.D. Degree

- Matched
- Not Matched

Other Graduate Degree

- Matched
- Not Matched

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
Plastic Surgery
## Summary Statistics on U.S. Allopathic Seniors

*Plastic Surgery*

<table>
<thead>
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<th>Matched (n=146)</th>
<th>Unmatched (n=24)</th>
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<td>6.8</td>
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<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.3</td>
<td>1.5</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>249</td>
<td>239</td>
</tr>
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<td>4. Mean USMLE Step 2 score</td>
<td>254</td>
<td>248</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>5.4</td>
<td>5.1</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>14.2</td>
<td>14.9</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.5</td>
<td>3.8</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.5</td>
<td>7.3</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>44.5</td>
<td>12.5</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>40.4</td>
<td>29.2</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>2.9</td>
<td>4.2</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>18.1</td>
<td>17.4</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Chart PS-1

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

Plastic Surgery

- Matched
- Not Matched

Chart PS-2

Number of Contiguous Ranks of U.S. Allopathic Seniors

Plastic Surgery

- Matched
- Not Matched

Source: NRMP Data Warehouse

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Graph PS-1

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Plastic Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants
**USMLE Step 1 Scores of U.S. Allopathic Seniors**

*Plastic Surgery*

**Chart PS-3**

<table>
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<th>Score Range</th>
<th>Matched</th>
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</tr>
</thead>
<tbody>
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<td>&lt;= 180</td>
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<td>0</td>
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<tr>
<td>Between 191 and 200</td>
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<td>0</td>
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<tr>
<td>Between 201 and 210</td>
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<td>Between 211 and 220</td>
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<td>5</td>
</tr>
<tr>
<td>Between 221 and 230</td>
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<tr>
<td>Between 231 and 240</td>
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<td>Between 241 and 250</td>
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<tr>
<td>Between 251 and 260</td>
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<td>1</td>
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**USMLE Step 2 CK Scores of U.S. Allopathic Seniors**

*Plastic Surgery*

**Chart PS-4**

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<th>Score Range</th>
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<td>Between 191 and 200</td>
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<td>0</td>
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<td>Between 201 and 210</td>
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<td>Between 211 and 220</td>
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<td>Between 221 and 230</td>
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<td>Between 231 and 240</td>
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<td>Between 241 and 250</td>
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<td>4</td>
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<tr>
<td>Between 251 and 260</td>
<td>44</td>
<td>8</td>
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<tr>
<td>&gt;260</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Score Unknown</td>
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<td>0</td>
</tr>
</tbody>
</table>
Graph PS-2

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Plastic Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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### Chart PS-5

**Number of Research Projects of U.S. Allopathic Seniors**  
*Plastic Surgery*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Research Projects</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0 0</td>
</tr>
<tr>
<td>1</td>
<td>3 1</td>
</tr>
<tr>
<td>2</td>
<td>6 2</td>
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<td>3</td>
<td>24 4</td>
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<tr>
<td>4</td>
<td>23 4</td>
</tr>
<tr>
<td>5 or More</td>
<td>90 13</td>
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</table>

**Source:** NRMP Data Warehouse

### Chart PS-6

**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors**  
*Plastic Surgery*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Publications</th>
<th>Number of Applicants</th>
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<tbody>
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<tr>
<td>5 or More</td>
<td>128 21</td>
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</table>

**Source:** NRMP Data Warehouse

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Chart PS-7
Number of Work Experiences of U.S. Allopathic Seniors
Plastic Surgery

Chart PS-8
Number of Volunteer Experiences of U.S. Allopathic Seniors
Plastic Surgery

Source: NRMP Data Warehouse

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Other Characteristics of U.S. Seniors

**Plastic Surgery**

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: [http://report.nih.gov/award/index.cfm](http://report.nih.gov/award/index.cfm)
### Table P-1
#### Summary Statistics on U.S. Allopathic Seniors
*Psychiatry*

<table>
<thead>
<tr>
<th>Measure</th>
<th>Matched (n=869)</th>
<th>Unmatched (n=154)</th>
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<tr>
<td>2. Mean number of distinct specialties ranked</td>
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<td>1.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>226</td>
<td>215</td>
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<tr>
<td>4. Mean USMLE Step 2 score</td>
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<td>229</td>
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<tr>
<td>5. Mean number of research experiences</td>
<td>2.8</td>
<td>2.7</td>
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<tr>
<td>7. Mean number of work experiences</td>
<td>3.3</td>
<td>3.1</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>7.0</td>
<td>6.2</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>6.8</td>
<td>0.6</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>34.8</td>
<td>22.1</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>5.4</td>
<td>4.3</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>18.1</td>
<td>18.7</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
**Chart P-1**

Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

*Psychiatry*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
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<th>Not Matched</th>
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<td>6</td>
</tr>
<tr>
<td>4 or More</td>
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<td>2</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse

---

**Chart P-2**

Number of Contiguous Ranks of U.S. Allopathic Seniors

*Psychiatry*

- **Matched**
- **Not Matched**

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
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<td>3</td>
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<td>16 or More</td>
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<td>3</td>
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</table>

**Source:** NRMP Data Warehouse
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Psychiatry

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Chart P-3

**USMLE Step 1 Scores of U.S. Allopathic Seniors**

*Psychiatry*

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>&lt;= 180</td>
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</tr>
<tr>
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<td>Between 191 and 200</td>
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Chart P-4

**USMLE Step 2 CK Scores of U.S. Allopathic Seniors**

*Psychiatry*

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<td>Between 191 and 200</td>
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Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Psychiatry

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.
Chart P-5
Number of Research Projects of U.S. Allopathic Seniors
Psychiatry

Chart P-6
Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
Psychiatry

Source: NRMP Data Warehouse

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Other Characteristics of U.S. Seniors

Psychiatry

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm
Radiation Oncology
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<td>1. Mean number of contiguous ranks</td>
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<td>7.6</td>
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<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.7</td>
<td>2.1</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>247</td>
<td>238</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>253</td>
<td>243</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>6.1</td>
<td>4.2</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>15.6</td>
<td>12.2</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>3.0</td>
<td>4.2</td>
</tr>
<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.6</td>
<td>7.4</td>
</tr>
<tr>
<td>9. Percentage who are AOA members</td>
<td>35.2</td>
<td>27.3</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>40.0</td>
<td>18.2</td>
</tr>
<tr>
<td>11. Percentage who have Ph.D. degree</td>
<td>20.8</td>
<td>22.2</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>19.2</td>
<td>11.1</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

Radiation Oncology

Chart RO-1

Number of Contiguous Ranks of U.S. Allopathic Seniors

Radiation Oncology

Chart RO-2

Source: NRMP Data Warehouse

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Graph RO-1

Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Radiation Oncology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants

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Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018
Chart RO-3

USMLE Step 1 Scores of U.S. Allopathic Seniors
Radiation Oncology

Chart RO-4

USMLE Step 2 CK Scores of U.S. Allopathic Seniors
Radiation Oncology
Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score

Radiation Oncology

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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**Number of Research Projects of U.S. Allopathic Seniors**

*Radiation Oncology*

- **Chart RO-5**
- **Source:** NRMP Data Warehouse
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**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors**

*Radiation Oncology*

- **Chart RO-6**

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*Charting Outcomes in the Match: U.S. Allopathic Seniors, 2018*
Chart RO-9

Other Characteristics of U.S. Seniors
Radiation Oncology

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm

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Vascular Surgery
<table>
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<th>Matched (n=46)</th>
<th>Unmatched (n=4)</th>
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<td>1. Mean number of contiguous ranks</td>
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<td>3.5</td>
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<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.7</td>
<td>2.3</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>236</td>
<td>219</td>
</tr>
<tr>
<td>4. Mean USMLE Step 2 score</td>
<td>244</td>
<td>229</td>
</tr>
<tr>
<td>5. Mean number of research experiences</td>
<td>4.9</td>
<td>3.3</td>
</tr>
<tr>
<td>6. Mean number of abstracts, presentations, and publications</td>
<td>8.3</td>
<td>3.3</td>
</tr>
<tr>
<td>7. Mean number of work experiences</td>
<td>2.9</td>
<td>6.8</td>
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<tr>
<td>8. Mean number of volunteer experiences</td>
<td>6.4</td>
<td>8.0</td>
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<tr>
<td>9. Percentage who are AOA members</td>
<td>17.4</td>
<td>0.0</td>
</tr>
<tr>
<td>10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding</td>
<td>37.0</td>
<td>25.0</td>
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<td>11. Percentage who have Ph.D. degree</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>12. Percentage who have another graduate degree</td>
<td>23.8</td>
<td>50.0</td>
</tr>
</tbody>
</table>

Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).
Number of Distinct Specialties Ranked by U.S. Allopathic Seniors

Vascular Surgery

Chart VS-1

Number of Applicants

<table>
<thead>
<tr>
<th>Distinct Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
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Source: NRMP Data Warehouse

Number of Contiguous Ranks of U.S. Allopathic Seniors

Vascular Surgery

Chart VS-2

Number of Applicants

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Source: NRMP Data Warehouse

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Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks

Vascular Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants
USMLE Step 1 Scores of U.S. Allopathic Seniors

**Vascular Surgery**

![Chart VS-3: USMLE Step 1 Scores of U.S. Allopathic Seniors](chart)

**USMLE Step 2 CK Scores of U.S. Allopathic Seniors**

**Vascular Surgery**

![Chart VS-4: USMLE Step 2 CK Scores of U.S. Allopathic Seniors](chart)
Graph VS-2  Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score  Vascular Surgery

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Number of Research Projects of U.S. Allopathic Seniors
Vascular Surgery

Number of Applicants

Research Projects

None 1 2 5 or More

Matched Not Matched

0 0 1 1 5 2 2 10 0 5 0 25 1

Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors
Vascular Surgery

Number of Applicants

Publications

None 1 2 3 4 5 or More

Matched Not Matched

1 1 0 1 2 1 4 0 5 0 34 1

Source: NRMP Data Warehouse

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**Number of Work Experiences of U.S. Allopathic Seniors**

**Vascular Surgery**

![Bar chart showing the number of work experiences for U.S. allopathic seniors in vascular surgery, categorized by matched and not matched categories.](chart-VS-7)

**Number of Volunteer Experiences of U.S. Allopathic Seniors**

**Vascular Surgery**

![Bar chart showing the number of volunteer experiences for U.S. allopathic seniors in vascular surgery, categorized by matched and not matched categories.](chart-VS-8)

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Other Characteristics of U.S. Seniors
Vascular Surgery

AOA Membership

- Matched
- Not Matched

Graduate of One of the 40 U.S. Medical Schools with the Highest NIH Funding

- Matched
- Not Matched

Ph.D. Degree

- Matched
- Not Matched

Other Graduate Degree

- Matched
- Not Matched

Source: NRMP Data Warehouse. Top 40 U.S. medical schools with the highest NIH funding from NIH: http://report.nih.gov/award/index.cfm

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