Charting Outcomes in the Match
International Medical Graduates
Characteristics of Applicants Who Matched to Their Preferred Specialty in the 2013 Main Residency Match

1st Edition

Prepared by:
National Resident Matching Program
and Educational Commission for Foreign Medical Graduates

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# Table of Contents

## Introduction

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## Tables and Charts for All Specialties

- Chart 1. Active Applicants in the 2013 Main Residency Match
- Chart 2. Ratio - IMG Applicants Ranking Specialty First / Available Positions
- Chart 3. Match Rates
- Table 1. Number of IMG Applicants and Positions in the 2013 Main Residency Match
- Chart 4. Summary Statistics
- Graph 1. Probability of Matching to Preferred Specialty by Number of Contiguous Ranks
- Chart 5. Mean Number of Different Specialties Ranked
- Graph 2. Probability of Matching to Preferred Specialty by USMLE Step 1 Score
- Chart 6. USMLE Step 1 Scores of Matched Applicants
- Graph 3. Probability of Matching to Preferred Specialty by USMLE Step 1 Attempts
- Chart 7. Mean Number of USMLE Step 1 Attempts
- Graph 4. Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge)
- Chart 8. USMLE Step 2 CK (Clinical Knowledge) Scores of Matched Applicants
- Graph 5. Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Attempts
- Chart 9. Mean Number of USMLE Step 2 CK (Clinical Knowledge) Attempts
- Chart 10. Mean Number of Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA
- Chart 11. Mean Number of Months after ECFMG Certification
- Chart 12. Mean Number of Years After Graduation
- Chart 13. Percentage of IMG Applicants whose Native Language is English
- Chart 14. IMG Applicants’ Citizenship at Birth
- Chart 15. Country of Medical School

## Tables and Charts for Individual Specialties

- Anesthesiology
- Emergency Medicine
- Family Medicine
- Internal Medicine
- Neurology
- Obstetrics and Gynecology
- Pathology
- Pediatrics
- Physical Medicine and Rehabilitation
- Psychiatry
- Radiology
- Surgery
Introduction

Overview

*Charting Outcomes in the Match for IMGs* is a collaborative publication of the National Resident Matching Program® (NRMP®) and the Educational Commission for Foreign Medical Graduates (ECFMG®). The report focuses on characteristics specific to students and graduates of international medical schools (IMGs) and is derived from the original *Charting Outcomes in the Match*, a biennial report published by the NRMP and the Association of American Medical Colleges that describes the characteristics of U.S. allopathic senior students and independent applicants* who matched to their preferred specialties in the Main Residency Match®.

ECFMG and its organizational members define an international medical graduate (IMG) as a physician who received his/her basic medical degree or qualification from a medical school located outside the United States and Canada. The location of the medical school, not the citizenship of the physician, determines whether the graduate is an IMG. Thus, U.S. citizens who graduate from medical schools outside the United States and Canada are considered IMGs. Non-U.S. citizens who graduate from medical schools in the United States and Canada are not considered IMGs.

ECFMG Certification

International medical graduates must be certified by ECFMG prior to entering accredited residency programs in the United States. Since 2004, to obtain an ECFMG certificate a candidate must (1) document the completion of all requirements for, and receipt of, the final medical diploma, and (2) pass the United States Medical Licensing Examination (USMLE) Step 1 (Basic Science), Step 2 CK (Clinical Knowledge), and Step 2 CS (Clinical Skills). Historically, to achieve ECFMG certification, other examination requirements were in effect.¹ Detailed information on ECFMG certification requirements can be found at: http://www.ecfmg.org.

USMLE Step 1 (Basic Science) assesses whether the candidate can understand and can apply important concepts of the sciences basic to the practice of medicine, with special emphasis on principles and mechanisms underlying health, disease, and modes of therapy. USMLE Step 2 CK (Clinical Knowledge) assesses whether the candidate can apply medical knowledge, skills, and understanding of clinical science essential for the provision of patient care under supervision and includes emphasis on health promotion and disease prevention. USMLE Step 2 CS (Clinical Skills) uses standardized patients to test medical students and graduates on their ability to gather information from patients, perform physical examinations, and communicate their findings to patients and colleagues. Detailed information on the USMLE can be found at: http://www.usmle.org.

ECFMG Clinical Skills Assessment (CSA)

In July of 1998, ECFMG introduced the Clinical Skills Assessment (CSA®), a performance test designed to evaluate the clinical skills (e.g., history taking, physical examination, interpersonal skills) of IMGs. The specific purpose of the CSA was to ensure that international medical graduates (IMGs) could demonstrate clinical skills at a level comparable to that of graduating fourth-year U.S. medical students. In 2004, the USMLE introduced Step 2 CS (clinical skills), a similar performance-based examination for U.S. medical students and graduates. At this point, the CSA was discontinued and all IMGs were required to take and pass Step 2 CS to achieve certification.

Charting Outcomes for IMGs

*Charting Outcomes in the Match for IMGs* utilizes a different set of measures from the original *Charting Outcomes in the Match*. Although some applicant characteristics such as number of contiguous ranks, number of specialties ranked, and USMLE scores are included in both reports, other characteristics relevant only to IMGs are added to this report: certification examination attempts, number of months since ECFMG certification, English spoken as a native language, citizenship at birth, country of medical school, and number of years since graduation from medical school.

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Methods

Data from the 2013 Main Residency Match, including applicant type, specialties ranked, number of contiguous ranks, and Match results, were obtained from the NRMP Data Warehouse. ECFMG provided characteristics of the 2013 IMG applicants, namely scores and attempts at USMLE or equivalent historical examinations (i.e., Step 1 or equivalent, Step 2 CK or equivalent, and Step 2 CS/ or ECFMG CSA), date of ECFMG certification, year of graduation, English spoken as a native language, and country of medical school. Data from the two sources were matched using unique identifiers.

Ten measures are incorporated in the report for specialty-specific analysis. Each measure is explained separately in the “All Specialties” section. Twelve specialties with 100 or more IMG applicants in the 2013 Main Residency Match are studied individually: Anesthesiology, Emergency Medicine, Family Medicine, Internal Medicine, Neurology, Obstetrics and Gynecology, Pathology, Pediatrics, Physical Medicine and Rehabilitation, Psychiatry, Radiology, and General Surgery.

For purposes of this report, match success is defined as a match to the specialty of the applicant’s first-ranked program because that is assumed to be the specialty of choice. Because preliminary programs provide only one or two years of prerequisite training for entry into advanced specialty training, applicants who ranked a preliminary program first are considered not to have a preferred specialty. Lack of match success includes matching to another specialty as well as failure to match at all. No distinction was made based on whether applicants matched to their first, second, third, or lower program choice. Applicants who obtained positions in the Match Week Supplemental Offer and Acceptance Program® (SOAP®) were not included in the analyses.

Probability analysis is performed on the number of contiguous ranks, Step 1 scores and Step 1 (or equivalent examination) attempts, Step 2 CK scores and Step 2 CK (or equivalent examination) attempts, and combined Step 2 CS/ECFMG CSA attempts. For each of those measures, probability of matching to a preferred specialty is calculated separately using logistic regression.

Summary

Some general observations apply to all of the specialties in this report. IMG applicants who are successful in matching to their preferred specialty are more likely to:

- rank more programs within their preferred specialty
- have higher USMLE scores
- have fewer attempts at ECFMG certification examinations
- be U.S. citizens
- speak English as a native language
- have obtained ECFMG certification closer to the Match year (2013)
- have graduated from medical school closer to the Match year (2013)

Although some other measures appear to be related to match success, the relationships were not consistent enough to draw broad conclusions across specialties. In addition, the data sources used for this report do not include other important applicant factors such as course evaluations, reference letters, and the Medical Student Performance Evaluation. Despite the fairly strong relationship between USMLE Step scores and match success, the distributions of scores show that program directors consider other qualifications, and high USMLE scores are not a guarantee of success. Even in the most competitive specialties, a few individuals with higher scores are not successful. Neither is a lower score a bar to success. Program directors and applicants will find the tables and charts for the specialties of their particular interest later in this report.

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Tables and Charts for All Specialties
In 2013, 34,355 medical students and graduates participated in the Main Residency Match and submitted certified rank order lists. Half of the applicants (50.9%) were senior students from U.S. allopathic schools. Together, IMGs accounted for more than one third (36.8%) of the applicant pool, including 7,568 non-U.S. citizen IMGs and 5,095 U.S. citizen IMGs.
### Table 1: Number of IMG Applicants and Positions in the 2014 Main Residency Match by Preferred Specialty*

<table>
<thead>
<tr>
<th>Preferred Specialty</th>
<th>Total Positions Offered</th>
<th>Total Number of Applicants</th>
<th>Number of Applicants Per Position</th>
<th>U.S. IMG Matched</th>
<th>U.S. IMG Not Matched</th>
<th>Non-U.S. IMG Matched</th>
<th>Non-U.S. IMG Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesiology</td>
<td>1,653</td>
<td>1,846</td>
<td>1.1</td>
<td>95</td>
<td>65</td>
<td>78</td>
<td>85</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>1,744</td>
<td>2,219</td>
<td>1.3</td>
<td>53</td>
<td>137</td>
<td>31</td>
<td>53</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>3,037</td>
<td>4,096</td>
<td>1.3</td>
<td>531</td>
<td>702</td>
<td>293</td>
<td>616</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>6,612</td>
<td>9,193</td>
<td>1.4</td>
<td>841</td>
<td>753</td>
<td>1,690</td>
<td>1,856</td>
</tr>
<tr>
<td>Neurology</td>
<td>692</td>
<td>844</td>
<td>1.2</td>
<td>59</td>
<td>44</td>
<td>148</td>
<td>149</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>1,237</td>
<td>1,613</td>
<td>1.3</td>
<td>78</td>
<td>99</td>
<td>62</td>
<td>120</td>
</tr>
<tr>
<td>Pathology</td>
<td>583</td>
<td>797</td>
<td>1.4</td>
<td>46</td>
<td>69</td>
<td>151</td>
<td>136</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>2,699</td>
<td>3,258</td>
<td>1.2</td>
<td>196</td>
<td>151</td>
<td>278</td>
<td>382</td>
</tr>
<tr>
<td>Physical Medicine and Rehabilitation</td>
<td>397</td>
<td>548</td>
<td>1.4</td>
<td>40</td>
<td>43</td>
<td>21</td>
<td>26</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>1,362</td>
<td>1,921</td>
<td>1.4</td>
<td>203</td>
<td>256</td>
<td>163</td>
<td>277</td>
</tr>
<tr>
<td>Radiology-Diagnostic</td>
<td>1,143</td>
<td>1,254</td>
<td>1.1</td>
<td>55</td>
<td>47</td>
<td>66</td>
<td>63</td>
</tr>
<tr>
<td>Surgery-General</td>
<td>1,185</td>
<td>1,872</td>
<td>1.6</td>
<td>119</td>
<td>123</td>
<td>158</td>
<td>150</td>
</tr>
</tbody>
</table>

*Preferred specialty is the specialty ranked first on an applicant's rank order list, excluding preliminary programs in specialties except Transitional Year.

**Note:** For those specialties where both exist, PGY-1 and PGY-2 positions have been combined. Only specialties with 100 or more IMG applicants are included.

**Source:** NRMP Data Warehouse.

Table 1 provides a summary of applicants and positions for selected specialties. In calculating Total Number of Applicants and Number of Applicants Per Position, all applicant types are considered. For example, 1,846 applicants preferred Anesthesiology (or ranked an Anesthesiology position first), including 160 U.S. IMGs (95 matched and 65 not matched to Anesthesiology) and 163 non-U.S. IMGs (78 matched and 85 not matched to Anesthesiology). For each of the 1,653 Anesthesiology positions there were 1.1 applicants who preferred the specialty. Only those specialties with 100 or more IMG applicants are included in this table.
Chart 2 shows the ratios of applicants preferring each specialty to available positions in that specialty for U.S. IMGs, non-U.S. IMGs, and all other applicant types. The red line marks where the number of preferred applicants equals the number of available positions. For all specialties displayed in the chart, there were more applicants preferring each specialty than there were positions. Overall, General Surgery has the highest ratio of applicants per position; however, the highest ratios for U.S. IMGs are found in Family Medicine and Psychiatry, and for non-U.S. IMGs, in Internal Medicine, Pathology, and Neurology.
Chart 3 shows the percentages of U.S. IMG and non-U.S. IMG applicants who matched to their preferred specialty. Overall, 48 percent of U.S. IMGs matched to their preferred specialty, ranging from 59 percent (Anesthesiology) to 28 percent (Emergency Medicine). For non-U.S. IMGs, the overall match rate was 44 percent, ranging from 53 percent (Pathology) to 32 percent (Family Medicine). In general, non-U.S. IMG applicants are less successful in matching to their preferred specialty than are U.S. IMGs.
## Table 2
### Summary Statistics
**All Specialties Combined**

<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th></th>
<th>Non-U.S. IMG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched</td>
<td>Unmatched</td>
<td>Matched</td>
<td>Unmatched</td>
</tr>
<tr>
<td></td>
<td>(n=2,369)</td>
<td>(n=2,604)</td>
<td>(n=3,219)</td>
<td>(n=4,111)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>7</td>
<td>3</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.4</td>
<td>1.6</td>
<td>1.3</td>
<td>1.5</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>217</td>
<td>204</td>
<td>227</td>
<td>213</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.2</td>
<td>1.7</td>
<td>1.1</td>
<td>1.2</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>224</td>
<td>209</td>
<td>233</td>
<td>218</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.1</td>
<td>1.6</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.4</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>8</td>
<td>26</td>
<td>16</td>
<td>26</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>1.7</td>
<td>5.7</td>
<td>4.7</td>
<td>7.5</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>76</td>
<td>56</td>
<td>24</td>
<td>18</td>
</tr>
</tbody>
</table>

**Sources.** NRMP Data Warehouse and ECFMG  
*USMLE Step 1 or equivalent examination  
**USMLE Step 2 CK or equivalent examination

Table 2 provides summary statistics by IMG applicant type and match outcome on the 10 measures presented in this report. Data on each of these measures are displayed graphically by preferred specialty on the following pages.

To be eligible for ECFMG certification and participation in the Main Residency Match, IMGs must satisfy the medical science requirement (USMLE Step 1 and Step 2 CK or equivalent exam) and clinical skills requirement (Step 2 CS or CSA). As a result, there were almost no missing values for USMLE exam scores and number of attempts.
In general, applicants are more likely to be successful if they rank more programs in their desired specialty. The number of contiguous ranks is the number of programs ranked in the first-choice specialty before a program in another specialty appears on the applicant's rank order list.

Chart 4 provides the median number of contiguous ranks for U.S. IMG and non-U.S. IMG applicants who matched and did not match to their preferred specialty. Both panels show some variation across the specialties for IMG applicants. For all specialties, U.S. IMGs who matched to their preferred specialty had median contiguous rank lists that were longer than U.S. IMGs who did not match. A similar pattern can be found for non-U.S. IMG applicants, although their lists are somewhat shorter than those submitted by U.S. IMGs. Non-U.S. IMGs who matched also had longer contiguous lists compared with those who did not match to their preferred specialty.

The principal message of these graphs is that applicants with longer rank order lists in their preferred specialty 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.
A simple logistic regression is used to calculate the probability of matching to a preferred specialty for different lengths of contiguous ranks. Graph 1 displays the probability curves for U.S. IMG and non-U.S. IMG applicants. This graph confirms the message in Chart 4 that the more programs ranked in the preferred specialty, the higher the probability of matching. For the same number of contiguous ranks, the probability is only slightly higher for U.S. IMGs than for non-U.S. IMGs.
Chart 5 displays the average number of different specialties ranked by IMG applicant type, preferred specialty, and match outcome. With the exception of those who preferred Radiology and PM&R, U.S. IMGs who matched to their preferred specialty ranked fewer specialties than those who did not match to their preferred specialty. In all specialties, matched non-U.S. IMG applicants ranked fewer specialties than those who did not match.
USMLE Step 1 scores are a measure of an applicant’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, it is one that is comparable across applicants and available during the interview season and prior to the NRMP’s ranking deadline. Overall, matched U.S. IMG applicants have a mean USMLE Step 1 score of 217 (s.d. = 18) and matched non-U.S. IMG applicants have a mean score of 227 (s.d. = 19), both well above the minimum passing score of 188 since 2010 (marked by the red line in the charts). Chart 6 displays the Step 1 scores for matched U.S. IMGs and non-U.S. IMGs by specialty. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges (between the 25th and 75th percentile). Scores generally are higher for the
The USMLE Step 1 score is one of the most important criteria that residency programs use in evaluating candidates. A simple logistic regression is used to calculate the probability of matching to a preferred specialty by USMLE Step 1 scores. Graph 2 shows that for the same Step 1 score, U.S. IMGs have a better chance of matching to a preferred specialty than do non-U.S. IMGs. The red line marks the passing score of 188 since 2010. All applicants with Step 1 scores below 188 took the test before January 1, 2010.

Sources: NRMP Data Warehouse and ECFMG
The number of attempts at USMLE Step 1 (or historical equivalent) was tallied for each IMG applicant. Chart 7 compares the mean number of attempts for matched and unmatched U.S. IMGs and non-U.S. IMGs. Across specialties, matched U.S. IMG and matched non-U.S. IMG applicants made fewer attempts than those who did not match. For U.S. IMGs, the difference in mean number of attempts between matched and unmatched applicants is generally larger than that of the non-U.S. IMGs.

*USMLE Step 1 or equivalent examination

Sources: NRMP Data Warehouse and ECFMG
Probabilities of matching to a preferred specialty also are calculated for Step 1 attempts using a simple logistic regression. Graph 3 displays the probability curves for U.S. IMG and non-U.S. IMG applicants, and shows an inverse association between the number of Step 1 attempts and the probability of matching to a preferred specialty. Although some applicants did match after taking the exam five or six times, applicants should be aware that medical licensure boards in some states impose limits on the number of attempts taken.

*USMLE Step 1 or equivalent examination
USMLE Step 2 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. IMG applicants had mean USMLE Step 2 CK scores of 224 (s.d. = 19) and non-U.S. IMG applicants had mean scores of 233 (s.d. = 19), both well above the 2012 minimum passing score of 196 (marked by the red lines in the chart). Chart 8 shows the Step 2 CK scores for U.S. IMGs and non-U.S. IMG applicants who matched to their preferred specialty. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges. As was the case for Step 1 scores, the more competitive specialties have higher average Step 2 CK scores. The interquartile ranges are generally larger for non-U.S. IMGs, especially for Emergency Medicine.
Probabilities of matching to a preferred specialty also are calculated for scores on Step 2 CK. Graph 4 presents the probability curves for U.S. IMG and non-U.S. IMG applicants. The red line marks the passing score of 196 in 2012. All applicants with Step 2 CK score below 196 took the test before May 17, 2012, when USMLE announced the plan to raise the passing score from 189 to 196.
Chart 9 compares the mean number of attempts at Step 2 CK or equivalent historical exams for matched and unmatched U.S. IMGs and non-U.S. IMGs. Across specialties, matched U.S. IMG and matched non-U.S. IMG applicants made fewer attempts than those who did not match. In addition, the difference is generally larger among U.S. IMGs.

*USMLE Step 2 CK or equivalent examination

Charting Outcomes in the Match for IMGs, 2014
Proportions of matching to a preferred specialty are calculated for attempts at Step 2 CK or equivalent historical exams using a simple logistic regression. Graph 5 compares the probabilities of matching for different numbers of attempts. Similar to the Step 1 attempts, this graph shows that the more times the exams are attempted, the lower the probability of obtaining a position in a preferred specialty.
Passing USMLE Step 2 CS is a requirement for ECFMG certification. Because USMLE reports only pass/fail status on this exam, only the number of attempts at the exam is studied. Chart 10 compares the mean number of attempts at Step 2 CS or equivalent exams for matched and unmatched U.S. IMGs and non-U.S. IMGs. There are limited variations among the specialties. For all specialties except Emergency Medicine, matched U.S. IMG and matched non-U.S. IMG applicants made fewer attempts than those who did not match.
Chart 11 demonstrates the mean number of months after the applicants obtained ECFMG certification, calculated as the number of months between the date of ECFMG certification and March 1, 2013. There are some variations among the specialties and between the two types of IMG applicants, but no obvious specialty-specific pattern exists. Generally, matched applicants of both applicant types obtained ECFMG certification later than those who did not match to their preferred specialty. The difference is more notable among U.S. IMG applicants, averaging almost 18 months between the matched and unmatched applicants.
The number of years after graduation is calculated as the difference between the year of graduation and 2013. Chart 12 shows the mean number of years after graduation for matched and unmatched U.S. IMG and non-U.S. IMG applicants. In general, matched applicants of both applicant types graduated later than those who did not match to their preferred specialty. U.S. IMG applicants showed a larger difference of about 6 years for all specialties than the 3-year difference for non-U.S. IMGs. In addition, the average non-U.S. IMGs graduated earlier than their U.S. IMG counterparts.
Chart 13 summarizes the percentage of applicants by applicant type whose native language is English and who were matched or not matched to their preferred specialties. Not surprisingly, more U.S. IMGs speak English as their native language. In most specialties, a larger percentage of matched applicants speak English as their native language.

* Native language as English is self-reported
Applicants’ citizenship at birth is presented in Chart 14. Only countries with at least 50 U.S. IMG applicants or non-U.S. IMG applicants are included. Not counting United States, India contributed the highest number of IMGs to the Match, followed by Pakistan. Other countries with more than 100 applicants in a category include Canada, Nigeria, China, Iran, Iraq, and Egypt. This chart is not presented in specialty-specific analysis.
Chart 15
Country of Medical School by IMG Applicant Type and Match Status

Match status by country of medical school for U.S. IMG and non-U.S. IMG applicants is presented in Chart 15. Only countries with at least 50 U.S. IMG applicants or non-U.S. IMG applicants are reported. Most U.S. IMGS were trained in the Caribbean countries such as Dominica, Grenada, Antigua and Barbuda, and Sint Maarten. A large number of non-U.S. IMGS were trained in India and Pakistan. Medical schools in Nigeria, China, and Egypt also contributed many physicians to U.S. residency programs.
Tables and Charts for Selected Specialties
<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG Matched (n=95)</th>
<th>U.S. IMG Unmatched (n=65)</th>
<th>Non-U.S. IMG Matched (n=78)</th>
<th>Non-U.S. IMG Unmatched (n=85)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>9</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.8</td>
<td>2.1</td>
<td>1.7</td>
<td>1.9</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>234</td>
<td>210</td>
<td>226</td>
<td>219</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.0</td>
<td>1.7</td>
<td>1.1</td>
<td>1.2</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>239</td>
<td>212</td>
<td>234</td>
<td>221</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.0</td>
<td>1.5</td>
<td>1.0</td>
<td>1.1</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.3</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>4</td>
<td>27</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>0.5</td>
<td>4.8</td>
<td>7.2</td>
<td>10.7</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>91</td>
<td>72</td>
<td>28</td>
<td>11</td>
</tr>
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</table>

Sources: NRMP Data Warehouse and ECFMG
*USMLE Step 1 or equivalent examination
**USMLE Step 2 CK or equivalent examination
Chart AN-1

Number of Contiguous Ranks Within Preferred Specialty

Anesthesiology

U.S. IMG

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
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</tr>
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<tbody>
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</tr>
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Non-U.S. IMG

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<tr>
<td>16 or More</td>
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</tr>
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Source: NRMP Data Warehouse
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### USMLE Step 1 Scores

#### Anesthesiology

<table>
<thead>
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<th>Non-U.S. IMG</th>
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<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Between 211 and 220</td>
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<td>13</td>
</tr>
<tr>
<td>Between 221 and 230</td>
<td>7</td>
<td>17</td>
</tr>
<tr>
<td>Between 231 and 240</td>
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<tr>
<td>Between 241 and 250</td>
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</tr>
<tr>
<td>Score Unknown</td>
<td>0</td>
<td>3</td>
</tr>
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</table>

Source: NRMP Data Warehouse and ECFMG.

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Graph AN-2

Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Anesthesiology

Probability of Matching

U.S. IMG  Non-U.S. IMG

Step 1 Score

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**USMLE Step 1 Attempts**

*Anesthesiology*

**U.S. IMG**

- **Matched**
  - 94 applicants
- **Not Matched**
  - 48 applicants

**Non-U.S. IMG**

- **Matched**
  - 70 applicants
- **Not Matched**
  - 75 applicants

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph AN-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

*USMLE Step 1 or equivalent examination

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Chart AN-5

USMLE Step 2 CK (Clinical Knowledge) Scores
Anesthesiology

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Graph AN-4

Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Anesthesiology

Probability of Matching

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Charting Outcomes in the Match for IMGs, 2014
**USMLE Step 2 CK (Clinical Knowledge) Attempts**

**Anesthesiology**

### U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>94</td>
<td>48</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
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</tr>
<tr>
<td>3</td>
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<td>1</td>
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<tr>
<td>4</td>
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<td>2</td>
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<tr>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

**Anesthesiology**

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Number of Years After Medical School Graduation

Anesthesiology

U.S. IMG

- Less than 1 year: 14 matched, 67 not matched
- 1 to 2 years: 23 matched, 20 not matched
- 3 to 5 years: 5 matched, 12 not matched
- 6 to 10 years: 0 matched, 4 not matched
- 11 to 15 years: 0 matched, 7 not matched
- 16 to 25 years: 0 matched, 6 not matched
- 25 or more years: 0 matched, 0 not matched

Non-U.S. IMG

- Less than 1 year: 8 matched, 5 not matched
- 1 to 2 years: 11 matched, 3 not matched
- 3 to 5 years: 13 matched, 10 not matched
- 6 to 10 years: 28 matched, 27 not matched
- 11 to 15 years: 11 matched, 19 not matched
- 16 to 25 years: 7 matched, 20 not matched
- 25 or more years: 0 matched, 1 not matched

Source: NRMP Data Warehouse and ECFMG

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Country of Medical School
Anesthesiology

U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>24</td>
<td>37</td>
</tr>
<tr>
<td>Dominica</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>Grenada</td>
<td>40</td>
<td>13</td>
</tr>
<tr>
<td>Sint Maarten</td>
<td>11</td>
<td>11</td>
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</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
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<td>China</td>
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<td>14</td>
</tr>
<tr>
<td>India</td>
<td>25</td>
<td>10</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category

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<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th>Non-U.S. IMG</th>
</tr>
</thead>
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<td>Unmatched</td>
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<tr>
<td></td>
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<td>(n=137)</td>
</tr>
<tr>
<td>Mean number of contiguous ranks</td>
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<td>3</td>
</tr>
<tr>
<td>Mean number of distinct specialties ranked</td>
<td>1.7</td>
<td>2.0</td>
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<tr>
<td>Mean USMLE Step 1 score</td>
<td>225</td>
<td>215</td>
</tr>
<tr>
<td>Mean USMLE Step 1 attempts*</td>
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<tr>
<td>Mean USMLE Step 2 CK score</td>
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<tr>
<td>Mean USMLE Step 2 CK attempts**</td>
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<td>1.3</td>
</tr>
<tr>
<td>Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>Mean number of months since ECFMG certification</td>
<td>9</td>
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<tr>
<td>Mean number of years since graduation</td>
<td>1.1</td>
<td>1.8</td>
</tr>
<tr>
<td>Percentage who speak English as a native language</td>
<td>83</td>
<td>83</td>
</tr>
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</table>

Sources: NRMP Data Warehouse and ECFMG
*USMLE Step 1 or equivalent examination
**USMLE Step 2 CK or equivalent examination
Chart EM-1

Number of Contiguous Ranks Within Preferred Specialty

Emergency Medicine

U.S. IMG

<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>1</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>14</td>
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<td>0</td>
<td>6</td>
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<tr>
<td>16 or More</td>
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</table>

Non-U.S. IMG

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<tr>
<td>16 or More</td>
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Source: NRMP Data Warehouse

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Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Emergency Medicine

Probability of Matching

Number of Contiguous Ranks

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Number of Applicants Ranking Different Specialties

**Emergency Medicine**

**U.S. IMG**

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
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<th>Not Matched</th>
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<tr>
<td>1</td>
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<td>48</td>
</tr>
<tr>
<td>2</td>
<td>22</td>
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<td>24</td>
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**Non-U.S. IMG**

<table>
<thead>
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<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>21</td>
<td>21</td>
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<tr>
<td>2</td>
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</tr>
<tr>
<td>4 or More</td>
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Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Emergency Medicine

Graph EM-2

Probability of Matching

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Charting Outcomes in the Match for IMGs, 2014
USMLE Step 1 Attempts*

Emergency Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Attempts</th>
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<th>Not Matched</th>
</tr>
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<td>1</td>
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<td>119</td>
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<tr>
<td>2</td>
<td>2</td>
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<tr>
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<td>0</td>
</tr>
<tr>
<td>6 and more</td>
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<td>0</td>
</tr>
</tbody>
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Non-U.S. IMG

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<th>Step 1 Attempts</th>
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<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Emergency Medicine

Graph EM-4

Probability of Matching

U.S. IMG
Non-U.S. IMG

Step 2 CK Score

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USMLE Step 2 CK (Clinical Knowledge) Attempts*

Emergency Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
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</tr>
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<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
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<th>Not Matched</th>
</tr>
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<tbody>
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<tr>
<td>4</td>
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<td>0</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

Emergency Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Number of attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
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<tr>
<td>1</td>
<td>50</td>
<td>123</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Number of attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27</td>
<td>45</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
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</tr>
<tr>
<td>3</td>
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<td>1</td>
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<td>4</td>
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<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

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Number of Years After Medical School Graduation

Emergency Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>33</td>
<td>78</td>
</tr>
<tr>
<td>1 to 2</td>
<td>13</td>
<td>34</td>
</tr>
<tr>
<td>3 to 5</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>6 to 10</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>11 to 15</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>16 to 25</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>1 to 2</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>3 to 5</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>6 to 10</td>
<td>6</td>
<td>14</td>
</tr>
<tr>
<td>11 to 15</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>16 to 25</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Chart EM-10

Country of Medical School
Emergency Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>20</td>
<td>64</td>
</tr>
<tr>
<td>Dominica</td>
<td>16</td>
<td>39</td>
</tr>
<tr>
<td>Grenada</td>
<td>17</td>
<td>34</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>31</td>
<td>38</td>
</tr>
<tr>
<td>Grenada</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category.
Family Medicine
## Summary Statistics

**Family Medicine**

<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th></th>
<th>Non-U.S. IMG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched</td>
<td>Unmatched</td>
<td>Matched</td>
<td>Unmatched</td>
</tr>
<tr>
<td></td>
<td>(n=531)</td>
<td>(n=702)</td>
<td>(n=293)</td>
<td>(n=616)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>6</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.3</td>
<td>1.5</td>
<td>1.4</td>
<td>1.5</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>206</td>
<td>198</td>
<td>213</td>
<td>204</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.4</td>
<td>2.1</td>
<td>1.2</td>
<td>1.4</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>213</td>
<td>203</td>
<td>219</td>
<td>210</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.2</td>
<td>1.9</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.5</td>
<td>1.1</td>
<td>1.4</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>8</td>
<td>28</td>
<td>14</td>
<td>27</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>1.7</td>
<td>6.1</td>
<td>3.6</td>
<td>7.8</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>78</td>
<td>54</td>
<td>58</td>
<td>30</td>
</tr>
</tbody>
</table>

**Sources:** NRMP Data Warehouse and ECFMG  
*USMLE Step 1 or equivalent examination  
**USMLE Step 2 CK or equivalent examination
Number of Contiguous Ranks Within Preferred Specialty

Family Medicine

U.S. IMG

Number of applicants

Matched    Not Matched

Contiguous Ranks

Non-U.S. IMG

Number of applicants

Matched    Not Matched

Contiguous Ranks

Source: NRMP Data Warehouse
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Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Family Medicine

Probability of Matching

U.S. IMG
Non-U.S. IMG

Number of Contiguous Ranks

Source: NRMP Data Warehouse.
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Chart FM-2

Number of Applicants Ranking Different Specialties

Family Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>367</td>
<td>462</td>
</tr>
<tr>
<td>2</td>
<td>146</td>
<td>186</td>
</tr>
<tr>
<td>3</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>4 or More</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

Number of applicants:
- Matched: 367, 146, 18, 0
- Not Matched: 462, 186, 37, 9

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>191</td>
<td>394</td>
</tr>
<tr>
<td>2</td>
<td>91</td>
<td>160</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>4 or More</td>
<td>1</td>
<td>8</td>
</tr>
</tbody>
</table>

Number of applicants:
- Matched: 191, 91, 10, 1
- Not Matched: 394, 160, 50, 8

Source: NRMP Data Warehouse

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Charting Outcomes in the Match for IMGs, 2014

USMLE Step 1 Attempts*

Family Medicine

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph FM-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

Family Medicine

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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**USMLE Step 2 CK (Clinical Knowledge) Scores**

**Family Medicine**

**Chart FM-5**

**Step 2 CK Scores**

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

Source: NRMP Data Warehouse and ECFMG.

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Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

![Graph FM-4](source: NRMP Data Warehouse and ECFMG. Copyright © 2014 NRMP and ECFMG. Copies may be made for educational or noncommercial uses only.)

Source: NRMP Data Warehouse and ECFMG.

Charting Outcomes in the Match for IMGs, 2014
USMLE Step 2 CK (Clinical Knowledge) Attempts*

Family Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>447</td>
<td>364</td>
</tr>
<tr>
<td>2</td>
<td>67</td>
<td>193</td>
</tr>
<tr>
<td>3</td>
<td>17</td>
<td>78</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>39</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>14</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>479</td>
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<td>2</td>
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<td>3</td>
<td>4</td>
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<td>0</td>
<td>3</td>
</tr>
<tr>
<td>6 and more</td>
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<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

**Family Medicine**

**U.S. IMG**

<table>
<thead>
<tr>
<th>Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>484</td>
</tr>
<tr>
<td>2</td>
<td>41</td>
<td>152</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>48</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
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<td>0</td>
<td>3</td>
</tr>
<tr>
<td>6 or more</td>
<td>0</td>
<td>6</td>
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</tbody>
</table>

**Non-U.S. IMG**

<table>
<thead>
<tr>
<th>Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>269</td>
<td>453</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>118</td>
</tr>
<tr>
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<td>2</td>
</tr>
<tr>
<td>6 or more</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.
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Number of Months After ECFMG Certification

**Family Medicine**

### U.S. IMG

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>167</td>
<td>43</td>
</tr>
<tr>
<td>2 to 6</td>
<td>154</td>
<td>67</td>
</tr>
<tr>
<td>7 to 12</td>
<td>81</td>
<td>122</td>
</tr>
<tr>
<td>13 to 24</td>
<td>80</td>
<td>179</td>
</tr>
<tr>
<td>25 to 48</td>
<td>36</td>
<td>145</td>
</tr>
<tr>
<td>more than 48</td>
<td>11</td>
<td>126</td>
</tr>
<tr>
<td>no data</td>
<td>2</td>
<td>20</td>
</tr>
</tbody>
</table>

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
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<td>less than 1</td>
<td>34</td>
<td>25</td>
</tr>
<tr>
<td>2 to 6</td>
<td>94</td>
<td>50</td>
</tr>
<tr>
<td>7 to 12</td>
<td>56</td>
<td>124</td>
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<tr>
<td>13 to 24</td>
<td>61</td>
<td>155</td>
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<tr>
<td>25 to 48</td>
<td>32</td>
<td>162</td>
</tr>
<tr>
<td>more than 48</td>
<td>15</td>
<td>88</td>
</tr>
<tr>
<td>no data</td>
<td>1</td>
<td>12</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

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### Number of Years After Medical School Graduation

#### Family Medicine

**U.S. IMG**

- **Matched**:
  - less than 1: 234
  - 1 to 2: 212
  - 3 to 5: 43
  - 6 to 10: 26
  - 11 to 15: 7
  - 16 to 25: 8
  - 25 or more: 1

- **Not Matched**:
  - less than 1: 65
  - 1 to 2: 256
  - 3 to 5: 136
  - 6 to 10: 92
  - 11 to 15: 64
  - 16 to 25: 66
  - 25 or more: 19

**Non-U.S. IMG**

- **Matched**:
  - less than 1: 95
  - 1 to 2: 72
  - 3 to 5: 52
  - 6 to 10: 49
  - 11 to 15: 12
  - 16 to 25: 13
  - 25 or more: 0

- **Not Matched**:
  - less than 1: 35
  - 1 to 2: 92
  - 3 to 5: 113
  - 6 to 10: 223
  - 11 to 15: 79
  - 16 to 25: 59
  - 25 or more: 11

**Source:** NRMP Data Warehouse and ECFMG

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Chart FM-10

Country of Medical School

Family Medicine

U.S. IMG

Number of applicants

Matched
Not Matched

Country of Medical School

Non-U.S. IMG

Number of applicants

Matched
Not Matched

Country of Medical School

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category

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<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th></th>
<th>Non-U.S. IMG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched (n=841)</td>
<td>Unmatched (n=753)</td>
<td>Matched (n=1,690)</td>
<td>Unmatched (n=1,856)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>8</td>
<td>3</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.3</td>
<td>1.6</td>
<td>1.3</td>
<td>1.4</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>221</td>
<td>205</td>
<td>231</td>
<td>217</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.1</td>
<td>1.6</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>228</td>
<td>210</td>
<td>236</td>
<td>221</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.1</td>
<td>1.4</td>
<td>1.0</td>
<td>1.1</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.4</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>7</td>
<td>22</td>
<td>15</td>
<td>22</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>1.7</td>
<td>5.9</td>
<td>4.3</td>
<td>6.6</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>71</td>
<td>51</td>
<td>19</td>
<td>17</td>
</tr>
</tbody>
</table>

Sources: NRMP Data Warehouse and ECFMG
*USMLE Step 1 or equivalent examination
**USMLE Step 2 CK or equivalent examination
Number of Contiguous Ranks Within Preferred Specialty

Internal Medicine

U.S. IMG

Number of applicants

1,000

800

600

400

200

0

Contiguous Ranks

Matched

Not Matched

Non-U.S. IMG

Number of applicants

1,000

800

600

400

200

0

Contiguous Ranks

Matched

Not Matched

Source: NRMP Data Warehouse

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Graph IM-1

Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Internal Medicine

Probability of Matching

U.S. IMG  Non-U.S. IMG

Number of Contiguous Ranks

Source: NRMP Data Warehouse.

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Number of Applicants Ranking Different Specialties

Internal Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>604</td>
</tr>
<tr>
<td>2</td>
<td>405</td>
</tr>
<tr>
<td>3</td>
<td>203</td>
</tr>
<tr>
<td>4</td>
<td>25</td>
</tr>
<tr>
<td>5 or More</td>
<td>9</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Number of Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,317</td>
</tr>
<tr>
<td>2</td>
<td>1,268</td>
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<tr>
<td>3</td>
<td>289</td>
</tr>
<tr>
<td>4</td>
<td>432</td>
</tr>
<tr>
<td>5 or More</td>
<td>67</td>
</tr>
<tr>
<td>6 or More</td>
<td>123</td>
</tr>
<tr>
<td>7 or More</td>
<td>11</td>
</tr>
<tr>
<td>8 or More</td>
<td>27</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

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Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Internal Medicine

Probability of Matching

Step 1 Score

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
**USMLE Step 1 Attempts**

*Internal Medicine*

**U.S. IMG**

- Number of applicants: 783 (Matched), 523 (Not Matched)
- Step 1 Attempts: 1,600, 1,400, 1,200, 1,000, 800, 600, 400, 200, 0

**Non-U.S. IMG**

- Number of applicants: 1,647 (Matched), 1,632 (Not Matched)
- Step 1 Attempts: 1,600, 1,400, 1,200, 1,000, 800, 600, 400, 200, 0

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph IM-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

*USMLE Step 1 or equivalent examination

Source: NRMP Data Warehouse and ECFMG.

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Chart IM-6

USMLE Step 2 CK (Clinical Knowledge) Attempts*

*USMLE Step 2 CK or equivalent examination

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Chart IM-7

Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

Internal Medicine

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84 Charting Outcomes in the Match for IMGs, 2014
Number of Months After ECFMG Certification

Internal Medicine

U.S. IMG

Source: NRMP Data Warehouse and ECFMG

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Non-U.S. IMG
Chart IM-9

Number of Years After Medical School Graduation

Internal Medicine

U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
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<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>444</td>
<td>144</td>
</tr>
<tr>
<td>1 to 2</td>
<td>237</td>
<td>217</td>
</tr>
<tr>
<td>3 to 5</td>
<td>105</td>
<td>87</td>
</tr>
<tr>
<td>6 to 10</td>
<td>125</td>
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<td>11 to 15</td>
<td>66</td>
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<tr>
<td>16 to 25</td>
<td>72</td>
<td>18</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>16</td>
</tr>
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</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
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<tr>
<td>1 to 2</td>
<td>461</td>
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<td>3 to 5</td>
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<td>6 to 10</td>
<td>575</td>
<td>325</td>
</tr>
<tr>
<td>11 to 15</td>
<td>205</td>
<td>82</td>
</tr>
<tr>
<td>16 to 25</td>
<td>101</td>
<td>28</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>12</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG
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## Table N-1

### Summary Statistics

**Neurology**

<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th>Non-U.S. IMG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched (n=59)</td>
<td>Unmatched (n=44)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.7</td>
<td>2.0</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>216</td>
<td>203</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.1</td>
<td>2.1</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>222</td>
<td>206</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.1</td>
<td>1.8</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.4</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>7</td>
<td>28</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>2.0</td>
<td>5.8</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>71</td>
<td>52</td>
</tr>
</tbody>
</table>

**Sources:** NRMP Data Warehouse and ECFMG  
*USMLE Step 1 or equivalent examination  
**USMLE Step 2 CK or equivalent examination  

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Number of Contiguous Ranks Within Preferred Specialty

Neurology

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse
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Graph N-1

Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Neurology

Probability of Matching

Source: NRMP Data Warehouse.

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Charting Outcomes in the Match for IMGs, 2014
Chart N-2  
Number of Applicants Ranking Different Specialties  
Neurology

U.S. IMG

Number of Different Specialties Ranked

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>30</td>
<td>18</td>
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<tr>
<td>2</td>
<td>17</td>
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<td>11</td>
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<tr>
<td>4 or More</td>
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<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of applicants</th>
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<td>60</td>
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</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>10</td>
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<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

Number of Different Specialties Ranked

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
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<tr>
<td>1</td>
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<td>67</td>
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<td>16</td>
</tr>
<tr>
<td>4 or More</td>
<td>5</td>
<td>6</td>
</tr>
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</table>

<table>
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<th>Number of applicants</th>
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</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>0</td>
</tr>
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</table>

Source: NRMP Data Warehouse

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Charting Outcomes in the Match for IMGs, 2014
<table>
<thead>
<tr>
<th>Step 1 Scores</th>
<th>U.S. IMG Matched</th>
<th>U.S. IMG Not Matched</th>
<th>Non-U.S. IMG Matched</th>
<th>Non-U.S. IMG Not Matched</th>
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<td>2</td>
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<tr>
<td>Between 181 and 190</td>
<td>11</td>
<td>0</td>
<td>15</td>
<td>0</td>
</tr>
<tr>
<td>Between 191 and 200</td>
<td>10</td>
<td>6</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Between 201 and 210</td>
<td>14</td>
<td>8</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>12</td>
<td>4</td>
<td>5</td>
<td>2</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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<tr>
<td>Between 241 and 250</td>
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<td>Between 251 and 260</td>
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</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014

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Graph N-2

Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Neurology

Probability of Matching

U.S. IMG
Non-U.S. IMG

Step 1 Score

Source: NRMP Data Warehouse and ECFMG.
USMLE Step 1 Attempts*
Neurology

U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>57</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>11</td>
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<tr>
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<td>0</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>2</td>
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</table>

Non-U.S. IMG

<table>
<thead>
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<th>Step 1 Attempts</th>
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<th>Not Matched</th>
</tr>
</thead>
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<tr>
<td>2</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
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<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

*USMLE Step 1 or equivalent examination

Source: NRMP Data Warehouse and ECFMG.

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Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Neurology

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Chart N-6

USMLE Step 2 CK (Clinical Knowledge) Attempts*
Neurology

**U.S. IMG**

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Number of Applicants</th>
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<td>4</td>
<td>3</td>
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<tr>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
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</table>

**Non-U.S. IMG**

<table>
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<th>Step 2 CK Attempts</th>
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</tr>
<tr>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
</tr>
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</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

**Neurology**

### U.S. IMG

- **Matched**: 56
- **Not Matched**: 32

### Non-U.S. IMG

- **Matched**: 129
- **Not Matched**: 101

**Source:** NRMP Data Warehouse and ECFMG.

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Number of Months After ECFMG Certification

### U.S. IMG

- **Matched**
  - Less than 1: 24
  - 2 to 6: 18
  - 7 to 12: 9
  - 13 to 24: 8
  - 25 to 48: 4
  - More than 48: 1
  - No data: 0

- **Not Matched**
  - Less than 1: 4
  - 2 to 6: 3
  - 7 to 12: 9
  - 13 to 24: 9
  - 25 to 48: 11
  - More than 48: 8
  - No data: 0

### Non-U.S. IMG

- **Matched**
  - Less than 1: 17
  - 2 to 6: 11
  - 7 to 12: 57
  - 13 to 24: 45
  - 25 to 48: 34
  - More than 48: 14
  - No data: 0

- **Not Matched**
  - Less than 1: 1
  - 2 to 6: 1
  - 7 to 12: 32
  - 13 to 24: 45
  - 25 to 48: 14
  - More than 48: 26
  - No data: 0

Source: NRMP Data Warehouse and ECFMG

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Number of Years After Medical School Graduation

Neurology

U.S. IMG

- Matched
- Not Matched

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>34</td>
<td>5</td>
</tr>
<tr>
<td>1 to 2</td>
<td>14</td>
<td>12</td>
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<td>3 to 5</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>6 to 10</td>
<td>2</td>
<td>9</td>
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<tr>
<td>11 to 15</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>16 to 25</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

Non-U.S. IMG

- Matched
- Not Matched

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
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<td>2</td>
</tr>
<tr>
<td>1 to 2</td>
<td>32</td>
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<tr>
<td>3 to 5</td>
<td>61</td>
<td>40</td>
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<tr>
<td>6 to 10</td>
<td>32</td>
<td>57</td>
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<tr>
<td>11 to 15</td>
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<td>19</td>
</tr>
<tr>
<td>16 to 25</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>
Country of Medical School

Neurology

U.S. IMG

- All Other: Matched - 39, Not Matched - 44
- Dominica: Matched - 10
- Grenada: Matched - 10

Non-U.S. IMG

- All Other: Matched - 77, Not Matched - 63
- China: Matched - 45, Not Matched - 57
- India: Matched - 12, Not Matched - 18
- Iran: Matched - 14
- Pakistan: Matched - 18

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category

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Charting Outcomes in the Match for IMGs, 2014
<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th>Non-U.S. IMG</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Matched (n=78)</td>
<td>Unmatched (n=99)</td>
</tr>
<tr>
<td>Mean number of contiguous ranks</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Mean number of distinct specialties ranked</td>
<td>1.3</td>
<td>1.7</td>
</tr>
<tr>
<td>Mean USMLE Step 1 score</td>
<td>221</td>
<td>207</td>
</tr>
<tr>
<td>Mean USMLE Step 1 attempts*</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td>Mean USMLE Step 2 CK score</td>
<td>232</td>
<td>213</td>
</tr>
<tr>
<td>Mean USMLE Step 2 CK attempts**</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>Mean number of months since ECFMG certification</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>Mean number of years since graduation</td>
<td>0.9</td>
<td>4.6</td>
</tr>
<tr>
<td>Percentage who speak English as a native language</td>
<td>82</td>
<td>62</td>
</tr>
</tbody>
</table>

**Sources:** NRMP Data Warehouse and ECFMG

*USMLE Step 1 or equivalent examination

**USMLE Step 2 CK or equivalent examination
Number of Contiguous Ranks Within Preferred Specialty

**Obstetrics and Gynecology**

**U.S. IMG**

- Matched
- Not Matched

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
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<tr>
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**Non-U.S. IMG**

- Matched
- Not Matched

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Source: NRMP Data Warehouse

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Number of Applicants Ranking Different Specialties

**Obstetrics and Gynecology**

### U.S. IMG

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### Non-U.S. IMG

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Source: NRMP Data Warehouse

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Chart OB-3

USMLE Step 1 Scores
Obstetrics and Gynecology

U.S. IMG

Number of applicants vs. Step 1 Scores

Non-U.S. IMG

Number of applicants vs. Step 1 Scores

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Obstetrics and Gynecology

Probability of Matching

Step 1 Score

U.S. IMG  Non-U.S. IMG

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USMLE Step 1 Attempts*  
Obstetrics and Gynecology

U.S. IMG

Number of applicants

<table>
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Non-U.S. IMG

Number of applicants

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<td>0</td>
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<tr>
<td>6 and more</td>
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</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

**Obstetrics and Gynecology**

- **Probability of Matching**
  - 1.00
  - 0.90
  - 0.80
  - 0.70
  - 0.60
  - 0.50
  - 0.40
  - 0.30
  - 0.20
  - 0.10
  - 0.00

- **Step 1 Attempts**
  - 1
  - 2
  - 3
  - 4
  - 5
  - 6

- **Source:** NRMP Data Warehouse and ECFMG.
- *USMLE Step 1 or equivalent examination

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Charting Outcomes in the Match for IMGs, 2014
USMLE Step 2 CK (Clinical Knowledge) Scores

**Obstetrics and Gynecology**

**Chart OB-5**

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Graph OB-4

Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Obstetrics and Gynecology

Probability of Matching

U.S. IMG  Non-U.S. IMG

Step 2 CK Score

Source: NRMP Data Warehouse and ECFMG.

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USMLE Step 2 CK (Clinical Knowledge) Attempts*

**Obstetrics and Gynecology**

**U.S. IMG**

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**Non-U.S. IMG**

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Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

**Obstetrics and Gynecology**

### U.S. IMG

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### Non-U.S. IMG

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Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Chart OB-8

Number of Months After ECFMG Certification

Obstetrics and Gynecology

U.S. IMG

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Non-U.S. IMG

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Source: NRMP Data Warehouse and ECFMG

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Charting Outcomes in the Match for IMGs, 2014
Chart OB-9

Number of Years After Medical School Graduation

Obstetrics and Gynecology

U.S. IMG

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Non-U.S. IMG

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Source: NRMP Data Warehouse and ECFMG

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Chart OB-10
Country of Medical School
Obstetrics and Gynecology

U.S. IMG

Number of applicants

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Non-U.S. IMG

Number of applicants

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<tr>
<td>India</td>
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</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category

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## Summary Statistics

**Pathology**

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<th>Non-U.S. IMG</th>
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<td>2. Mean number of distinct specialties ranked</td>
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<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
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<td>8. Mean number of months since ECFMG certification</td>
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<td>39</td>
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<td>9. Mean number of years since graduation</td>
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<tr>
<td>10. Percentage who speak English as a native language</td>
<td>74</td>
<td>29</td>
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Sources: NRMP Data Warehouse and ECFMG

*USMLE Step 1 or equivalent examination

**USMLE Step 2 CK or equivalent examination
Number of Contiguous Ranks Within Preferred Specialty

Pathology

U.S. IMG

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Non-U.S. IMG

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<td>11</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
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<td>9</td>
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<tr>
<td>16 or More</td>
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</table>

Source: NRMP Data Warehouse

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Graph PTH-1

Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pathology

Probability of Matching

Source: NRMP Data Warehouse.
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Charting Outcomes in the Match for IMGs, 2014
Number of Applicants Ranking Different Specialties

**Pathology**

**U.S. IMG**

Number of applicants

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0</td>
<td>6</td>
</tr>
<tr>
<td>4 or More</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

**Non-U.S. IMG**

Number of applicants

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>4</td>
</tr>
<tr>
<td>4 or More</td>
<td>2</td>
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</tr>
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</table>

Source: NRMP Data Warehouse
Chart PTH-3

USMLE Step 1 Scores
Pathology

U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Scores</th>
<th>Matched</th>
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</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
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<tr>
<td>Between 181 and 190</td>
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<td>13</td>
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<tr>
<td>Between 191 and 200</td>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>Between 201 and 210</td>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Between 221 and 230</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Between 231 and 240</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>&gt;260</td>
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<td>0</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Scores</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>0</td>
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<td>Between 181 and 190</td>
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<td>12</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 241 and 250</td>
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<td>Between 251 and 260</td>
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<td>&gt;260</td>
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<td>0</td>
</tr>
<tr>
<td>Score Unknown</td>
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<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.
Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pathology-Anatomic and Clinical

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

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Chart PTH-4

USMLE Step 1 Attempts*
Pathology

U.S. IMG

Step 1 Attempts

Matched  Not Matched

Number of applicants

0 30 60 90 120 150

1 44
2 10
3 1
4 4
5 0
6 and more 1

Non-U.S. IMG

Step 1 Attempts

Matched  Not Matched

Number of applicants

0 30 60 90 120 150

1 148
2 3
3 9
4 6
5 1
6 and more 0

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph PTH-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

Pathology

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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USMLE Step 2 CK (Clinical Knowledge) Scores
Pathology-Anatomic and Clinical

Source: NRMP Data Warehouse and ECFMG.
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**USMLE Step 2 CK (Clinical Knowledge) Attempts**

**Pathology**

**U.S. IMG**

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>42</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>14</td>
<td>2</td>
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<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
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<td>1</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Non-U.S. IMG**

<table>
<thead>
<tr>
<th>Step 2 CK Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>4</td>
</tr>
<tr>
<td>2</td>
<td>120</td>
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<td>2</td>
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<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Source:** NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment) Pathology

**U.S. IMG**

- Matched: 39, 46
- Not Matched: 4, 2

**Non-U.S. IMG**

- Matched: 125, 78
- Not Matched: 25, 41

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Chart PTH-8

Number of Months After ECFMG Certification

Pathology

U.S. IMG

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>14</td>
<td>0</td>
</tr>
<tr>
<td>2 to 6</td>
<td>14</td>
<td>3</td>
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<tr>
<td>7 to 12</td>
<td>6</td>
<td>9</td>
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<tr>
<td>13 to 24</td>
<td>3</td>
<td>17</td>
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<tr>
<td>25 to 48</td>
<td>7</td>
<td>20</td>
</tr>
<tr>
<td>more than 48</td>
<td>1</td>
<td>18</td>
</tr>
<tr>
<td>no data</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
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<td>2 to 6</td>
<td>10</td>
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<td>7 to 12</td>
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<td>28</td>
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<td>13 to 24</td>
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<td>25 to 48</td>
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<tr>
<td>more than 48</td>
<td>12</td>
<td>21</td>
</tr>
<tr>
<td>no data</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

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Number of Years After Medical School Graduation

Pathology

U.S. IMG

Non-U.S. IMG

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### Country of Medical School

**Pathology**

#### U.S. IMG

- **All Other**
  - Matched: 35
  - Not Matched: 69
- **Grenada**
  - Matched: 11
  - Not Matched: 0

#### Non-U.S. IMG

- **All Other**
  - Matched: 69
  - Not Matched: 62
- **China**
  - Matched: 40
  - Not Matched: 42
- **India**
  - Matched: 28
  - Not Matched: 22
- **Iran**
  - Matched: 14
  - Not Matched: 10

---

**Source:** NRMP Data Warehouse and ECFMG

**Note:** A country is included if it has 10 or more applicants for each category.
<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG Matched (n=196)</th>
<th>U.S. IMG Unmatched (n=151)</th>
<th>Non-U.S. IMG Matched (n=278)</th>
<th>Non-U.S. IMG Unmatched (n=382)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>9</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.2</td>
<td>1.5</td>
<td>1.3</td>
<td>1.5</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>216</td>
<td>201</td>
<td>223</td>
<td>211</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.1</td>
<td>1.7</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>224</td>
<td>208</td>
<td>231</td>
<td>217</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
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<td>1.4</td>
<td>1.0</td>
<td>1.1</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.3</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>3</td>
<td>21</td>
<td>12</td>
<td>24</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>0.7</td>
<td>5.8</td>
<td>3.9</td>
<td>7.2</td>
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<tr>
<td>10. Percentage who speak English as a native language</td>
<td>87</td>
<td>53</td>
<td>25</td>
<td>16</td>
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</table>

Sources: NRMP Data Warehouse and ECFMG
*USMLE Step 1 or equivalent examination
**USMLE Step 2 CK or equivalent examination
Graph PD-1  
Probability of Matching to Preferred Specialty by Number of Contiguous Ranks  
*Pediatrics*

![Graph showing probability of matching to preferred specialty by number of contiguous ranks, with data for U.S. IMG and Non-U.S. IMG.](image)

Source: NRMP Data Warehouse.

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Number of Applicants Ranking Different Specialties

Pediatrics

### U.S. IMG

- **Number of applicants**
  - Matched: 163
  - Not Matched: 92

- **Number of Different Specialties Ranked**
  - 1: 29
  - 2: 46
  - 3: 10
  - 4 or More: 1

### Non-U.S. IMG

- **Number of applicants**
  - Matched: 214
  - Not Matched: 258

- **Number of Different Specialties Ranked**
  - 1: 53
  - 2: 87
  - 3: 26
  - 4 or More: 9

Source: NRMP Data Warehouse

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Chart PD-3

USMLE Step 1 Scores

Pediatrics

U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Scores</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Between 181 and 190</td>
<td>8</td>
<td>30</td>
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<tr>
<td>Between 191 and 200</td>
<td>29</td>
<td>51</td>
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<td>Between 201 and 210</td>
<td>49</td>
<td>38</td>
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<td>Between 211 and 220</td>
<td>37</td>
<td>18</td>
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<td>Between 221 and 230</td>
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<tr>
<td>Between 231 and 240</td>
<td>29</td>
<td>3</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>&gt;260</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Score Unknown</td>
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<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Scores</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 180</td>
<td>1</td>
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<tr>
<td>Between 181 and 190</td>
<td>6</td>
<td>34</td>
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<td>Between 231 and 240</td>
<td>57</td>
<td>48</td>
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<td>Between 241 and 250</td>
<td>22</td>
<td>6</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>&gt;260</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>0</td>
<td>0</td>
</tr>
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</table>

Source: NRMP Data Warehouse and ECFMG.

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Graph PD-2

Probability of Matching to Preferred Specialty by USMLE Step 1 Score

*Pediatrics*

**Probability of Matching**

- U.S. IMG
- Non-U.S. IMG

**Step 1 Score**

*Source: NRMP Data Warehouse and ECFMG.*

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USMLE Step 1 Attempts*

*USMLE Step 1 or equivalent examination

Source: NRMP Data Warehouse and ECFMG.

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Graph PD-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

Pediatrics

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Pediatrics

Source: NRMP Data Warehouse and ECFMG.
USMLE Step 2 CK (Clinical Knowledge) Attempts*

Pediatrics

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

Pediatrics

### U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CS or ECFMG CSA Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>114</td>
</tr>
<tr>
<td>2</td>
<td>9</td>
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<tr>
<td>3</td>
<td>1</td>
<td>9</td>
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<tr>
<td>4</td>
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<td>1</td>
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<tr>
<td>5</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Number of applicants

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 2 CS or ECFMG CSA Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>255</td>
<td>285</td>
</tr>
<tr>
<td>2</td>
<td>19</td>
<td>80</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>14</td>
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<tr>
<td>4</td>
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<td>3</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Number of applicants

Source: NRMP Data Warehouse and ECFMG.

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Chart PD-9

Number of Years After Medical School Graduation

**Pediatrics**

### U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>139</td>
<td>32</td>
</tr>
<tr>
<td>1 to 2</td>
<td>42</td>
<td>40</td>
</tr>
<tr>
<td>3 to 5</td>
<td>9</td>
<td>22</td>
</tr>
<tr>
<td>6 to 10</td>
<td>4</td>
<td>24</td>
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<tr>
<td>11 to 15</td>
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<tr>
<td>16 to 25</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>25 or more</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>41</td>
<td>9</td>
</tr>
<tr>
<td>1 to 2</td>
<td>80</td>
<td>48</td>
</tr>
<tr>
<td>3 to 5</td>
<td>85</td>
<td>117</td>
</tr>
<tr>
<td>6 to 10</td>
<td>57</td>
<td>132</td>
</tr>
<tr>
<td>11 to 15</td>
<td>12</td>
<td>51</td>
</tr>
<tr>
<td>16 to 25</td>
<td>2</td>
<td>21</td>
</tr>
<tr>
<td>25 or more</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

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Chart PD-10

Country of Medical School

Pediatrics

U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>51</td>
<td>83</td>
</tr>
<tr>
<td>Antigua And Barbuda</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>Dominica</td>
<td>38</td>
<td>20</td>
</tr>
<tr>
<td>Grenada</td>
<td>55</td>
<td>19</td>
</tr>
<tr>
<td>Israel</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Pakistan</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Sint Maarten</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>170</td>
<td>137</td>
</tr>
<tr>
<td>China</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Egypt</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Grenada</td>
<td>64</td>
<td>123</td>
</tr>
<tr>
<td>India</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Jordan</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Lebanon</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Libya</td>
<td>19</td>
<td>37</td>
</tr>
<tr>
<td>Nigeria</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Pakistan</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Philippines</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Syria</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Venezuela</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category

Copyright ©2014 NRMP and ECFMG. Copies may be made for educational or noncommercial uses only.
<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th>Non-U.S. IMG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched (n=40)</td>
<td>Unmatched (n=43)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>223</td>
<td>207</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>231</td>
<td>212</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.1</td>
<td>1.5</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.0</td>
<td>1.1</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>1.4</td>
<td>1.8</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>83</td>
<td>74</td>
</tr>
</tbody>
</table>

Sources: NRMP Data Warehouse and ECFMG
*USMLE Step 1 or equivalent examination
**USMLE Step 2 CK or equivalent examination
Chart PM-1

Number of Contiguous Ranks Within Preferred Specialty
Physical Medicine and Rehabilitation

U.S. IMG

<table>
<thead>
<tr>
<th>Contiguous Ranks</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>14</td>
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<td>0</td>
</tr>
<tr>
<td>15</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>16 or More</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

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

Source: NRMP Data Warehouse

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Number of Applicants Ranking Different Specialties

Physical Medicine and Rehabilitation

U.S. IMG

Number of Different Specialties Ranked

Number of applicants

Matched Not Matched

1 2 3 4 or More

17 19 15 16 7 6 1 2

Source: NRMP Data Warehouse

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Non-U.S. IMG

Number of Different Specialties Ranked

Number of applicants

Matched Not Matched

1 2 3 4 or More

10 10 5 6 5 0 1

Charting Outcomes in the Match for IMGs, 2014
USMLE Step 1 Scores
Physical Medicine and Rehabilitation

**U.S. IMG**

![Bar chart showing the distribution of matched and not matched applicants for U.S. IMGs by Step 1 scores.](image)

**Non-U.S. IMG**

![Bar chart showing the distribution of matched and not matched applicants for Non-U.S. IMGs by Step 1 scores.](image)

Source: NRMP Data Warehouse and ECFMG.

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Graph PM-2

Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Physical Medicine and Rehabilitation

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

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**USMLE Step 1 Attempts**

*Physical Medicine and Rehabilitation*

### U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>38</td>
<td>34</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 and more</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>19</td>
<td>21</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination*

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Graph PM-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

*USMLE Step 1 or equivalent examination

Source: NRMP Data Warehouse and ECFMG.

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Chart PM-5

USMLE Step 2 CK (Clinical Knowledge) Scores

Physical Medicine and Rehabilitation

Source: NRMP Data Warehouse and ECFMG.

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Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Physical Medicine and Rehabilitation

Probability of Matching

- U.S. IMG
- Non-U.S. IMG

Source: NRMP Data Warehouse and ECFMG.

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USMLE Step 2 CK (Clinical Knowledge) Attempts*

Physical Medicine and Rehabilitation

**U.S. IMG**

- **Matched**: 38
- **Not Matched**: 31

**Step 2 CK Attempts**

<table>
<thead>
<tr>
<th>Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>38</td>
<td>31</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6+</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Non-U.S. IMG**

- **Matched**: 20
- **Not Matched**: 22

**Step 2 CK Attempts**

<table>
<thead>
<tr>
<th>Attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20</td>
<td>22</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
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</tr>
<tr>
<td>4</td>
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<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6+</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Source**: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

Physical Medicine and Rehabilitation

U.S. IMG

<table>
<thead>
<tr>
<th>Number of attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>39</td>
<td>38</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

Step 2 CS or ECFMG CSA Attempts

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Number of attempts</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>7</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

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Number of Years After Medical School Graduation

Physical Medicine and Rehabilitation

U.S. IMG

Years after Medical School Graduation

- less than 1: Matched 25, Not Matched 22
- 1 to 2: Matched 10, Not Matched 13
- 3 to 5: Matched 2, Not Matched 4
- 6 to 10: Matched 0, Not Matched 3
- 11 to 15: Matched 3, Not Matched 0
- 16 to 25: Matched 0, Not Matched 1
- 25 or more: Matched 0, Not Matched 0

Source: NRMP Data Warehouse and ECFMG

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Non-U.S. IMG

Years after Medical School Graduation

- less than 1: Matched 7, Not Matched 3
- 1 to 2: Matched 1, Not Matched 1
- 3 to 5: Matched 2, Not Matched 2
- 6 to 10: Matched 5, Not Matched 6
- 11 to 15: Matched 3, Not Matched 8
- 16 to 25: Matched 2, Not Matched 5
- 25 or more: Matched 1, Not Matched 1
Country of Medical School

Physical Medicine and Rehabilitation

**U.S. IMG**

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>Dominica</td>
<td>11</td>
<td>14</td>
</tr>
</tbody>
</table>

**Non-U.S. IMG**

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>21</td>
<td>26</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category.
Psychiatry
## Summary Statistics

**Psychiatry**

<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th>Non-U.S. IMG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched (n=203)</td>
<td>Unmatched (n=256)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>205</td>
<td>198</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.4</td>
<td>2.2</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>211</td>
<td>202</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.4</td>
<td>1.9</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.2</td>
<td>1.5</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>18</td>
<td>41</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>3.8</td>
<td>8.3</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>73</td>
<td>49</td>
</tr>
</tbody>
</table>

*Sources: NRMP Data Warehouse and ECFMG*

*USMLE Step 1 or equivalent examination*

**USMLE Step 2 CK or equivalent examination**
Graph P-1

Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Psychiatry

Probability of Matching

Source: NRMP Data Warehouse.

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Number of Applicants Ranking Different Specialties

*Psychiatry*

**U.S. IMG**

<table>
<thead>
<tr>
<th>Number of Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>135</td>
<td>184</td>
</tr>
<tr>
<td>2</td>
<td>56</td>
<td>50</td>
</tr>
<tr>
<td>3</td>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td>4 or More</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Non-U.S. IMG**

<table>
<thead>
<tr>
<th>Number of Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>135</td>
<td>214</td>
</tr>
<tr>
<td>2</td>
<td>21</td>
<td>41</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>17</td>
</tr>
<tr>
<td>4 or More</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse

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Chart P-3

USMLE Step 1 Scores
Psychiatry

U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Scores</th>
<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>3</td>
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</tr>
<tr>
<td>Between 191 and 200</td>
<td>64</td>
<td>93</td>
</tr>
<tr>
<td>Between 201 and 210</td>
<td>37</td>
<td>46</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>25</td>
<td>19</td>
</tr>
<tr>
<td>Between 221 and 230</td>
<td>26</td>
<td>10</td>
</tr>
<tr>
<td>Between 231 and 240</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>&gt;260</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Score Unknown</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Step 1 Scores</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>10</td>
<td>46</td>
</tr>
<tr>
<td>Between 191 and 200</td>
<td>34</td>
<td>83</td>
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<td>Between 201 and 210</td>
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<td>57</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>
<td>17</td>
<td>12</td>
</tr>
<tr>
<td>Between 241 and 250</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Between 251 and 260</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>&gt;260</td>
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<td>1</td>
</tr>
<tr>
<td>Score Unknown</td>
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<td>0</td>
</tr>
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</table>

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Psychiatry

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

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Charting Outcomes in the Match for IMGs, 2014
Chart P-4

USMLE Step 1 Attempts*
Psychiatry

U.S. IMG

Number of applicants

Matched  Not Matched

Number of applicants

Step 1 Attempts

Non-U.S. IMG

Number of applicants

Matched  Not Matched

Number of applicants

Step 1 Attempts

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph P-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

Psychiatry

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Chart P-5

USMLE Step 2 CK (Clinical Knowledge) Scores
Psychiatry

Step 2 CK Scores

Source: NRMP Data Warehouse and ECFMG.
Graph P-4

**Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score**

**Psychiatry**

<table>
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<tr>
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<tr>
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<tr>
<td>0.00</td>
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</table>

Source: NRMP Data Warehouse and ECFMG.

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Chart P-6

USMLE Step 2 CK (Clinical Knowledge) Attempts*
Psychiatry

U.S. IMG

Number of applicants

<table>
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<th>Step 2 CK Attempts</th>
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</tr>
</thead>
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<tr>
<td>5</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>6 and more</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

Number of applicants

<table>
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<tr>
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<td>15</td>
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<td>16</td>
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<tr>
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<td>1</td>
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<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.
*USMLE Step 2 CK or equivalent examination

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Charting Outcomes in the Match for IMGs, 2014
Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

Psychiatry

U.S. IMG

Non-U.S. IMG

Number of applicants

Step 2 CS or ECFMG CSA Attempts

Source: NRMP Data Warehouse and ECFMG.

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Chart P-8

Number of Months After ECFMG Certification
Psychiatry

U.S. IMG

<table>
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</thead>
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<td>7 to 12</td>
<td>25</td>
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<td>13 to 24</td>
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<td>82</td>
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<td>6</td>
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</table>

Non-U.S. IMG

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<th>Months after ECFMG Certification</th>
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</tr>
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<td>less than 1</td>
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<td>4</td>
</tr>
<tr>
<td>2 to 6</td>
<td>23</td>
<td>16</td>
</tr>
<tr>
<td>7 to 12</td>
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<td>13 to 24</td>
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<td>14</td>
<td>66</td>
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<td>2</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG
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Country of Medical School
Psychiatry

U.S. IMG

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>All Other</td>
<td>82</td>
<td>104</td>
</tr>
<tr>
<td>Antigua And Barbuda</td>
<td>19</td>
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<td>Bangladesh</td>
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<tr>
<td>Cayman Islands</td>
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<td></td>
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<td>Dominica</td>
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<td>Grenada</td>
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<td>India</td>
<td>13</td>
<td>23</td>
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<tr>
<td>Pakistan</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Saint Kitts And Nevis</td>
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<tr>
<td>Sint Maarten</td>
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<td>11</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
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<tr>
<td>China</td>
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<td>India</td>
<td>44</td>
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<td>Nigeria</td>
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<td>Pakistan</td>
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</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category.

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### Table DR-1

**Summary Statistics**  
*Radiology-Diagnostic*

<table>
<thead>
<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th></th>
<th>Non-U.S. IMG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched</td>
<td>Unmatched</td>
<td>Matched</td>
<td>Unmatched</td>
</tr>
<tr>
<td></td>
<td>(n=55)</td>
<td>(n=47)</td>
<td>(n=66)</td>
<td>(n=63)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>6</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>2.1</td>
<td>1.7</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>237</td>
<td>223</td>
<td>232</td>
<td>219</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.0</td>
<td>1.1</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>241</td>
<td>223</td>
<td>238</td>
<td>220</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.0</td>
<td>1.2</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.1</td>
<td>1.3</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>13</td>
<td>30</td>
<td>23</td>
<td>41</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>1.4</td>
<td>6.3</td>
<td>6.2</td>
<td>7.9</td>
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<tr>
<td>10. Percentage who speak English as a native language</td>
<td>73</td>
<td>53</td>
<td>21</td>
<td>14</td>
</tr>
</tbody>
</table>

*Sources: NRMP Data Warehouse and ECFMG  
*USMLE Step 1 or equivalent examination  
**USMLE Step 2 CK or equivalent examination*
Chart DR-1

Number of Contiguous Ranks Within Preferred Specialty

Radiology-Diagnostic

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse

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Chart DR-2
Number of Applicants Ranking Different Specialties
Radiology-Diagnostic

U.S. IMG

Number of Different Specialties Ranked

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<th>Number of Different Specialties Ranked</th>
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<tr>
<td>1</td>
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<td>25</td>
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<tr>
<td>2</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>4 or More</td>
<td>8</td>
<td>4</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

Number of Different Specialties Ranked

<table>
<thead>
<tr>
<th>Number of Different Specialties Ranked</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>36</td>
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<tr>
<td>2</td>
<td>19</td>
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<td>12</td>
<td>10</td>
</tr>
<tr>
<td>4 or More</td>
<td>2</td>
<td>8</td>
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Source: NRMP Data Warehouse

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Chart DR-3
USMLE Step 1 Scores
Radiology-Diagnostic

U.S. IMG

<table>
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<tr>
<th>Step 1 Scores</th>
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<tr>
<td>Between 181 and 190</td>
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</tr>
<tr>
<td>Between 191 and 200</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>Between 201 and 210</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Between 211 and 220</td>
<td>4</td>
<td>0</td>
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<tr>
<td>Between 221 and 230</td>
<td>7</td>
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<td>Between 231 and 240</td>
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<td>Between 251 and 260</td>
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</tr>
<tr>
<td>&gt;260</td>
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Non-U.S. IMG

<table>
<thead>
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<th>Step 1 Scores</th>
<th>Matched</th>
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<tr>
<td>&lt;= 180</td>
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<td>Between 221 and 230</td>
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Chart DR-4

USMLE Step 1 Attempts*
Radiology-Diagnostic

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph DR-3

Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*

Radiology-Diagnostic

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Charting Outcomes in the Match for IMGs, 2014
**USMLE Step 2 CK (Clinical Knowledge) Scores**

**Radiology-Diagnostic**

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<td>6</td>
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<td>Between 201 and 210</td>
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<tr>
<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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<tr>
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</table>

**Source:** NRMP Data Warehouse and ECFMG.

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Probability of Matching to Preferred Specialty by USMLE Step 2 CK (Clinical Knowledge) Score

Radiology-Diagnostic

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USMLE Step 2 CK (Clinical Knowledge) Attempts*
Radiology-Diagnostic

Source: NRMP Data Warehouse and ECFMG.
*USMLE Step 2 CK or equivalent examination
Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)  
Radiology-Diagnostic

**U.S. IMG**

- Matched: 51
- Not Matched: 35

**Non-U.S. IMG**

- Matched: 61
- Not Matched: 46

Source: NRMP Data Warehouse and ECFMG.

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Number of Months After ECFMG Certification

**Radiology-Diagnostic**

**U.S. IMG**

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>26</td>
<td>13</td>
</tr>
<tr>
<td>2 to 6</td>
<td>16</td>
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<tr>
<td>7 to 12</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>13 to 24</td>
<td>3</td>
<td>5</td>
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<td>25 to 48</td>
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<td>11</td>
</tr>
<tr>
<td>no data</td>
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<td>0</td>
</tr>
</tbody>
</table>

**Non-U.S. IMG**

<table>
<thead>
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<th>Not Matched</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>2 to 6</td>
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<td>7 to 12</td>
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<td>13 to 24</td>
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<td>22</td>
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</table>

Source: NRMP Data Warehouse and ECFMG

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Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category.
## Summary Statistics

### Surgery-General

<table>
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<tr>
<th>Measure</th>
<th>U.S. IMG</th>
<th>Non-U.S. IMG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matched (n=119)</td>
<td>Unmatched (n=123)</td>
</tr>
<tr>
<td>1. Mean number of contiguous ranks</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>2. Mean number of distinct specialties ranked</td>
<td>1.2</td>
<td>1.4</td>
</tr>
<tr>
<td>3. Mean USMLE Step 1 score</td>
<td>227</td>
<td>216</td>
</tr>
<tr>
<td>4. Mean USMLE Step 1 attempts*</td>
<td>1.0</td>
<td>1.3</td>
</tr>
<tr>
<td>5. Mean USMLE Step 2 CK score</td>
<td>234</td>
<td>216</td>
</tr>
<tr>
<td>6. Mean USMLE Step 2 CK attempts**</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>7. Mean USMLE Step 2 CS or ECFMG CSA attempts</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>8. Mean number of months since ECFMG certification</td>
<td>8</td>
<td>19</td>
</tr>
<tr>
<td>9. Mean number of years since graduation</td>
<td>1.1</td>
<td>2.7</td>
</tr>
<tr>
<td>10. Percentage who speak English as a native language</td>
<td>81</td>
<td>74</td>
</tr>
</tbody>
</table>

**Sources:** NRMP Data Warehouse and ECFMG

*USMLE Step 1 or equivalent examination

**USMLE Step 2 CK or equivalent examination
Chart GS-1
Number of Contiguous Ranks Within Preferred Specialty
Surgery-General

U.S. IMG

Source: NRMP Data Warehouse
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Graph GS-1

Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Surgery-General

Source: NRMP Data Warehouse.

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Charting Outcomes in the Match for IMGs, 2014
USMLE Step 1 Scores
Surgery-General

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse and ECFMG.
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Graph GS-2: Probability of Matching to Preferred Specialty by USMLE Step 1 Score
Surgery-General

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.
Chart GS-4

USMLE Step 1 Attempts*
Surgery-General

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Graph
GS-3
Probability of Matching to Preferred Specialty by Number of Step 1 Attempts*
Surgery-General

Probability of Matching

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 1 or equivalent examination

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Charting Outcomes in the Match for IMGs, 2014
USMLE Step 2 CK (Clinical Knowledge) Attempts*

Surgery-General

U.S. IMG

Non-U.S. IMG

Source: NRMP Data Warehouse and ECFMG.

*USMLE Step 2 CK or equivalent examination

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Attempts at USMLE Step 2 CS (Clinical Skills) or ECFMG CSA (Clinical Skills Assessment)

**Surgery-General**

### U.S. IMG

<table>
<thead>
<tr>
<th>Number of applicants</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>116</td>
<td>103</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>17</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Number of applicants</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>139</td>
<td>120</td>
</tr>
<tr>
<td>2</td>
<td>17</td>
<td>28</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6 and more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG.

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Chart GS-8

Number of Months After ECFMG Certification

Surgery-General

U.S. IMG

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>39</td>
<td>18</td>
</tr>
<tr>
<td>2 to 6</td>
<td>36</td>
<td>20</td>
</tr>
<tr>
<td>7 to 12</td>
<td>15</td>
<td>21</td>
</tr>
<tr>
<td>13 to 24</td>
<td>17</td>
<td>32</td>
</tr>
<tr>
<td>25 to 48</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>more than 48</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>no data</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Months after ECFMG Certification</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>2 to 6</td>
<td>16</td>
<td>19</td>
</tr>
<tr>
<td>7 to 12</td>
<td>51</td>
<td>29</td>
</tr>
<tr>
<td>13 to 24</td>
<td>57</td>
<td>48</td>
</tr>
<tr>
<td>25 to 48</td>
<td>24</td>
<td>36</td>
</tr>
<tr>
<td>more than 48</td>
<td>2</td>
<td>13</td>
</tr>
<tr>
<td>no data</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG
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Number of Years After Medical School Graduation

Surgery-General

U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>66</td>
<td>30</td>
</tr>
<tr>
<td>1 to 2</td>
<td>41</td>
<td>62</td>
</tr>
<tr>
<td>3 to 5</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>6 to 10</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>11 to 15</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>16 to 25</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Non-U.S. IMG

<table>
<thead>
<tr>
<th>Years after Medical School Graduation</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 1</td>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td>1 to 2</td>
<td>36</td>
<td>27</td>
</tr>
<tr>
<td>3 to 5</td>
<td>68</td>
<td>43</td>
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<tr>
<td>6 to 10</td>
<td>30</td>
<td>47</td>
</tr>
<tr>
<td>11 to 15</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>16 to 25</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>25 or more</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

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### U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>47</td>
<td>62</td>
</tr>
<tr>
<td>Dominica</td>
<td>31</td>
<td>32</td>
</tr>
<tr>
<td>Grenada</td>
<td>41</td>
<td>19</td>
</tr>
<tr>
<td>Sint Maarten</td>
<td>10</td>
<td>--------------</td>
</tr>
</tbody>
</table>

### Non-U.S. IMG

<table>
<thead>
<tr>
<th>Country of Medical School</th>
<th>Matched</th>
<th>Not Matched</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other</td>
<td>97</td>
<td>102</td>
</tr>
<tr>
<td>Egypt</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td>Grenada</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>India</td>
<td>18</td>
<td>12</td>
</tr>
<tr>
<td>Pakistan</td>
<td>11</td>
<td>--------------</td>
</tr>
<tr>
<td>Venezuela</td>
<td>11</td>
<td>--------------</td>
</tr>
</tbody>
</table>

Source: NRMP Data Warehouse and ECFMG

Note: A country is included if it has 10 or more applicants for each category.