Charting Outcomes in the Match:
Senior Students of U.S. MD Medical Schools

Characteristics of U.S. MD Seniors Who Matched to Their Preferred Specialty in the 2022 Main Residency Match

3rd Edition

July 2022

Background

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

Prior to 2016, this report examined the Match success of only two applicant groups: senior students from U.S. MD medical schools ("U.S. seniors" or "U.S. MD seniors") and independent applicants. Independent applicants included all applicant types other than U.S. seniors: graduates of U.S. MD medical schools, students/graduates of U.S. DO medical schools, students/graduates of Fifth Pathway programs, students/graduates of Canadian medical schools, and U.S. citizen and non U.S. citizen students/graduates of international medical schools (IMGs). Because independent applicants are a heterogeneous group, a decision was made in 2016 to report data separately for U.S. MD medical school seniors, students/graduates of U.S. DO medical schools, and U.S. citizen/non-U.S. citizen students/graduates of international medical schools. In 2018, upon requests from U.S. DO medical schools, the *Charting Outcomes in the Match* report was redesigned to include only senior students of U.S. DO medical schools ("U.S. DO seniors"), eliminating the reporting on U.S. DO graduates because their numbers are so small. The 2022 *Charting Outcomes in the Match* reports marks the third iteration of publications for U.S. MD Seniors, U.S. DO seniors and U.S. citizen/non-U.S. citizen IMGs. This report examines the characteristics of U.S. MD seniors.

Data

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

A total of 19,902 U.S. MD seniors submitted certified rank order lists in the 2022 Main Residency Match. After excluding the 17 percent of U.S. MD seniors who did not give consent to participate in NRMP research, 16,510 applicants were included in the final dataset. Missing data were found in Step 1 scores (1% missing), Step 2 CK scores (2.4%), number of research experiences (10.8%), number of abstracts, presentations, and publications (10.9%), number of work experiences (11.2%), number of volunteer experiences (11.2%), Ph.D. degree (5.2%), other graduate degree (5.4%), and AOA membership (7.8%).

To ensure that USMLE Step scores were not misreported, the NRMP asked medical schools to verify the scores of their U.S. MD seniors. In 2022, 90.2 percent of the Step 1 scores and 90.6 of the Step 2 CK scores used in this report were verified, corrected, or supplied by U.S. medical schools. Because the self-reported scores are highly accurate (the intracorrelation coefficient (ICC) between the self-reported scores and school-verified scores was 0.958 (99% CI [0.956, 0.959]) for Step 1 scores and 0.932 (99% CI [0.929, 0.935]) for Step 2 CK scores), both verified and unverified scores were used to prepare this report.

Methods

Specialties that offered 50 or more positions in the 2022 Main Residency Match are included in this report. Over the years, specialties have been added to the report, including Otolaryngology and Neurology in 2007, Neurological Surgery in 2009, Child Neurology and Vascular Surgery in 2014, and Interventional Radiology in 2018. Transitional Year programs were excluded beginning with the 2011 report because they are not viewed as a preferred specialty choice.

Twelve measures are incorporated in this report. Probability analysis using a simple logistic regression model was introduced in 2009 to evaluate the relationship between Match outcome and contiguous ranks and USMLE Step 1 scores. Probability analyses in this report used data on U.S. MD seniors who participated in the Match in 2020, 2021, and 2022.

This report examines whether a match was made to the specialty of the applicant's first-ranked program, or "preferred specialty," because that is assumed to be the specialty of choice. U.S. MD Seniors who match to a specialty not ranked first on the rank order list or who do not match are not included in analyses. No distinction was made based on whether applicants matched to the first, second, third, or lower choice program.

Summary

Some general observations apply to all specialties in this report. U.S. MD seniors who match to their preferred specialty are more likely to:

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

It is important to note that other factors also likely contribute to matching to a preferred specialty. As examples, the data sources used for *Charting Outcomes in the Match* do not include important applicant factors such as course evaluations, reference letters, and the Medical School Performance Evaluation (MSPE).

Despite the fairly strong relationship between USMLE Step scores and matching to a preferred specialty, the distributions of scores show that program directors consider other qualifications. A high score is not a guarantee of matching, and a low score is not a bar to matching. In the more competitive specialties, U.S. MD seniors with high scores may not match to their preferred specialties. In less competitive specialties, U.S. MD seniors with scores slightly above passing usually match to their preferred specialties. The data are reassuring because they indicate that some programs do not employ an arbitrary cutoff or decline to consider applicants with less competitive scores.

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

- Rank the programs with which you've interviewed in the order you most prefer them.
- Include a mix of both competitive and less competitive programs within your preferred specialty.
- Include all programs on your list where you would be willing to train if matched.
- Include all of your qualifications in your application but know that you do not have to be AOA, have the highest USMLE scores, have publications, or have participated in research projects to match to your preferred specialty.

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

For questions, comments or more information, please contact:

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Tables and Charts for All Specialties

Senior students of U.S. MD Medical Schools
19,902

Students/Graduates of Canadian Medical Schools and Fifth Pathway Programs
18

U.S. Citizen Students/Graduates of International Medical Schools
5,048

Graduates of U.S. DO Medical Schools
714

Graduates of U.S. MD Medical Schools
1,700

Non-U.S. Citizen Students/Graduates of International Medical Schools
7,864

Senior students of U.S. DO Medical Schools
7,303

Chart 1 shows the number of active applicants (applicants who submitted rank order lists of programs) by applicant type in the 2022 Main Residency Match. A total of 42,549 active applicants participated in the 2022 Main Residency Match. Senior students of U.S. MD medical schools constituted 46.8 percent of the applicants in the 2022 Match. The next largest group were non-U.S. citizen students and graduates of international medical schools (18.5%). Senior students of U.S. DO medical schools (17.2%) represent the third-largest group, topping the U.S. citizen students/graduates of international medical schools (11.9%). The number of Fifth Pathway and Canadian graduates (n=18) represent the smallest group of active applicants.

2   **Charting Outcomes in the Match: U.S. MD Seniors, 2022**

Table 1

Number of Applicants and Positions in the 2022 Main Residency Match
by Preferred Specialty
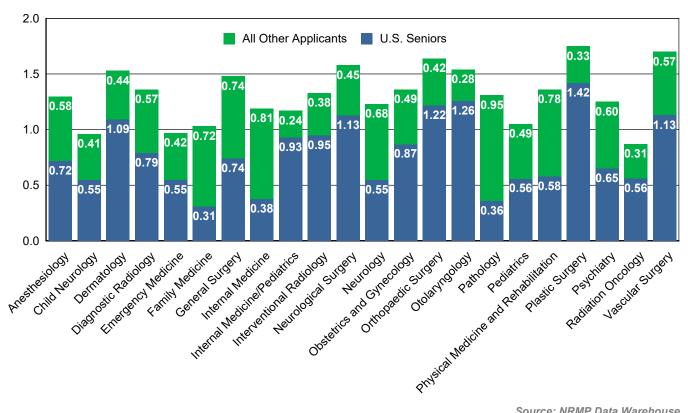
Preferred Specialty	Total Positions Offered	Total Number of All Applicants	Number of All Applicants Per Position	Number of U.S. MD Seniors			Number of U.S. MD Seniors Per Position
				Matched	Not Matched	Total	
Anesthesiology	1,969	2,560	1.30	1,267	148	1415	0.72
Child Neurology	188	182	0.97	102	2	104	0.55
Dermatology	544	834	1.53	426	169	595	1.09
Diagnostic Radiology	1,155	1,568	1.36	758	153	911	0.79
Emergency Medicine	2,921	2,813	0.96	1,564	30	1594	0.55
Family Medicine	4,916	5,055	1.03	1,468	32	1500	0.31
General Surgery	1,622	2,400	1.48	984	222	1206	0.74
Internal Medicine	9,809	11,598	1.18	3,616	73	3689	0.38
Internal Medicine/Pediatrics	392	458	1.17	328	35	363	0.93
Interventional Radiology	169	226	1.34	131	30	161	0.95
Neurological Surgery	240	379	1.58	202	70	272	1.13
Neurology	1,014	1,249	1.23	549	13	562	0.55
Obstetrics and Gynecology	1,503	2,044	1.36	1,103	212	1315	0.87
Orthopaedic Surgery	875	1,435	1.64	703	365	1068	1.22
Otolaryngology	361	556	1.54	315	140	455	1.26
Pathology	631	827	1.31	224	6	230	0.36
Pediatrics	3,016	3,153	1.05	1,655	27	1682	0.56
Physical Medicine and Rehabilitation	532	725	1.36	267	43	310	0.58
Plastic Surgery	194	340	1.75	173	103	276	1.42
Psychiatry	2,047	2,560	1.25	1,225	104	1329	0.65
Radiation Oncology	185	162	0.88	102	2	104	0.56
Vascular Surgery	84	143	1.70	72	23	95	1.13

* Preferred specialty is the specialty of the first-ranked program on an applicant's rank order list, excluding preliminary programs in specialties.
Source: NRMP Data Warehouse.

Table 1 provides a summary of the numbers of positions for selected specialties and the numbers of all applicants and U.S. MD seniors who preferred each specialty. For example, a total of 2,560 applicants preferred Anesthesiology (or ranked an Anesthesiology program first), among whom 1,415 are U.S. MD seniors (1,267 matched and 148 not matched to Anesthesiology). For each of the 1,969 Anesthesiology positions offered, there were 1.30 applicants who preferred the specialty, including 0.72 U.S. MD seniors.

Only those specialties offering 50 or more positions are included. For those specialties offering both PGY-1 and PGY-2 positions (including Physician (R) positions), all position types have been combined.

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart 2
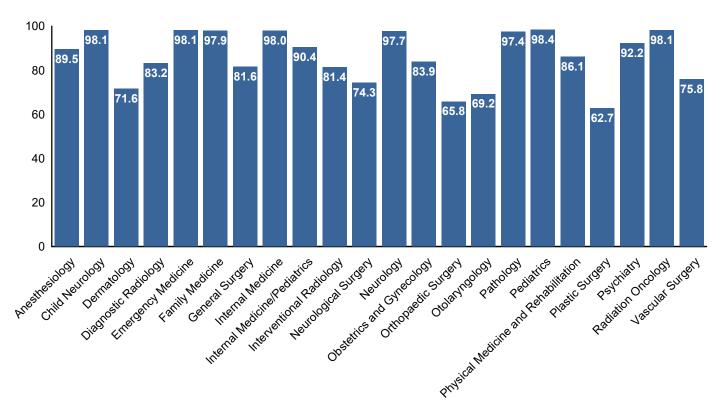
Ratio of U.S. MD Seniors Ranking Specialty First / Available Positions
by Preferred Specialty

Legend: ■ All Other Applicants ■ U.S. Seniors

Specialty	U.S. Seniors	All Other Applicants
Anesthesiology	0.72	0.58
Child Neurology	0.55	0.41
Dermatology	1.09	0.44
Diagnostic Radiology	0.79	0.57
Emergency Medicine	0.55	0.42
Family Medicine	0.31	0.72
General Surgery	0.74	0.74
Internal Medicine	0.38	0.81
Internal Medicine/Pediatrics	0.93	0.24
Interventional Radiology	0.95	0.38
Neurological Surgery	1.13	0.45
Neurology	0.55	0.68
Obstetrics and Gynecology	0.87	0.49
Orthopaedic Surgery	1.22	0.42
Otolaryngology	1.26	0.28
Pathology	0.36	0.95
Pediatrics	0.56	0.49
Physical Medicine and Rehabilitation	0.58	0.78
Plastic Surgery	1.42	0.33
Psychiatry	0.65	0.60
Radiation Oncology	0.56	0.31
Vascular Surgery	1.13	0.57

Chart 2 shows the ratios of U.S. MD seniors and all applicants who preferred each specialty to available positions in that specialty. All specialties except Dermatology, Neurological Surgery, Orthopaedic Surgery, Otolaryngology, Plastic Surgery and Vascular Surgery had enough positions to accommodate all U.S. MD seniors who preferred that specialty. The ratio was lowest for Family Medicine, Pathology, and Internal Medicine.

Source: NRMP Data Warehouse

Chart 3 shows the percentages of U.S. MD seniors who matched to their preferred specialty. Overall, 89.6 percent of U.S. MD seniors matched to their preferred specialty, ranging from a high of 98.4 percent (Pediatrics) to a low of 62.7 percent (Plastic Surgery).
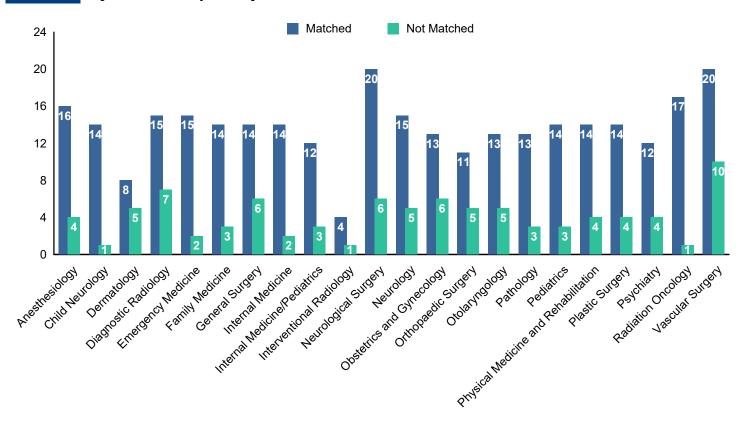
Measure	Matched (n=14,577)	Not Matched (n=1,681)
1. Mean number of contiguous ranks	13.8	5.7
2. Mean number of distinct specialties ranked	1.2	1.6
3. Mean USMLE Step 1 score	236	231
4. Mean USMLE Step 2 CK score	248	242
5. Mean number of research experiences	4.0	4.4
6. Mean number of abstracts, presentations, and publications	7.9	8.6
7. Mean number of work experiences	3.6	3.5
8. Mean number of volunteer experiences	8.4	7.8
9. Percentage who are AOA members	16.8	9.2
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	30.8	22.2
11. Percentage who have Ph.D. degree	3.8	2.0
12. Percentage who have another graduate degree	18.7	21.8

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

Table 2 provides summary statistics for all specialties by Match outcome on the 12 measures presented in this report. Data on each of these measures are displayed graphically by preferred specialty on the following pages. Only U.S. MD seniors who gave consent to use their information in research are included in this table and the rest of the report.
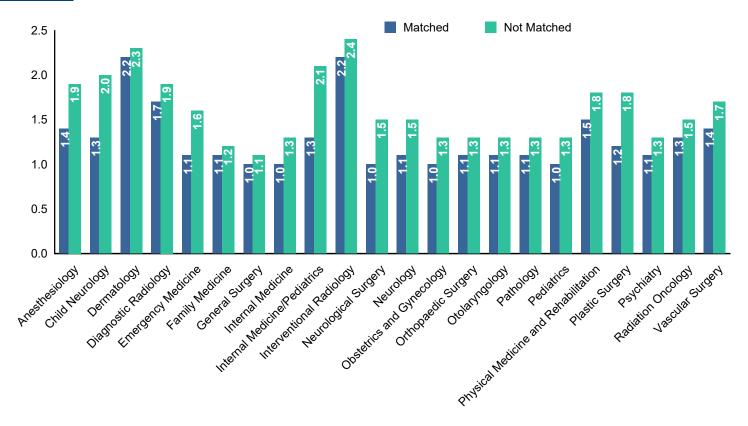
Source: NRMP Data Warehouse

In general, applicants are more likely to be successful if they rank more programs in their desired specialty. To quantify this aspect of applicant behavior, we tallied the number of programs ranked in the first-choice specialty before a program in another specialty appeared on the applicant's rank order list (contiguous ranks).

Chart 4 displays the median number of contiguous ranks by preferred specialty for U.S. MD seniors who matched and did not match to their preferred specialty. The chart shows some variation across the specialties for U.S. MD seniors. Neurological Surgery and Vascular Surgery both had the longest average contiguous rank list (20) for matched U.S. MD seniors and Interventional Radiology had the shortest (4). For all specialties, U.S. MD seniors who matched to their preferred specialty had median contiguous rank lists that were longer than those of U.S. MD seniors who did not match.

The principal message of these graphs is that applicants with longer rank order lists are more successful than those with shorter ones.

Legend: Matched (dark blue), Not Matched (green)

Specialty	Matched	Not Matched
Anesthesiology	1.4	1.9
Child Neurology	1.3	2.0
Dermatology	2.2	2.3
Diagnostic Radiology	1.7	1.9
Emergency Medicine	1.1	1.6
Family Medicine	1.1	1.2
General Surgery	1.0	1.1
Internal Medicine	1.0	1.3
Internal Medicine/Pediatrics	1.3	2.1
Interventional Radiology	2.2	2.4
Neurological Surgery	1.0	1.5
Neurology	1.1	1.5
Obstetrics and Gynecology	1.0	1.3
Orthopaedic Surgery	1.1	1.3
Otolaryngology	1.1	1.3
Pathology	1.1	1.3
Pediatrics	1.0	1.3
Physical Medicine and Rehabilitation	1.5	1.8
Plastic Surgery	1.2	1.8
Psychiatry	1.1	1.3
Radiation Oncology	1.3	1.5
Vascular Surgery	1.4	1.7

Source: NRMP Data Warehouse

Some applicants are interested in a single specialty while others consider two or more. Chart 5 displays the average number of different specialties ranked by preferred specialty and Match outcome. For all specialties, U.S. MD seniors who did not match to their preferred specialty had a higher mean number of different specialties ranked.

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Chart 6

USMLE Step 1 Scores of U.S. MD Seniors
by Preferred Specialty and Match Status
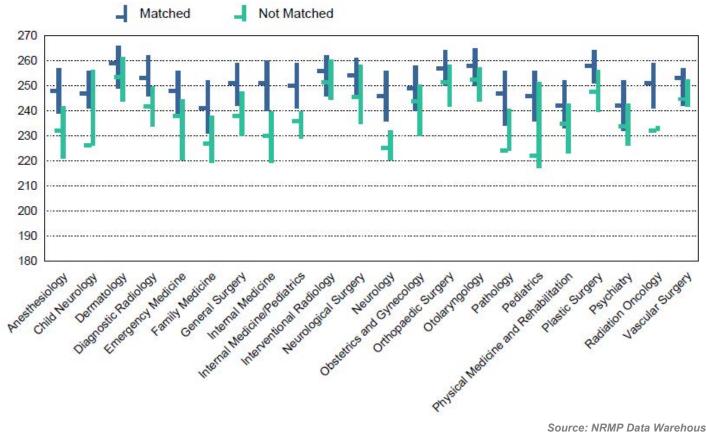
Source: NRMP Data Warehouse

USMLE Step 1 scores are a measure of a student's understanding of important basic science concepts and the ability to apply that knowledge to the practice of medicine. Although such knowledge is only one facet of applicant qualifications considered by program directors in their selection process, a Step 1 score is the only qualification that is universally available for all applicants during the interview season and prior to the NRMP's ranking deadline. Overall, U.S. MD seniors who matched to their preferred specialty have *mean* USMLE Step 1 scores of 231.3 (s.d. = 17.6), well above the 2022 minimum passing score of 196. Step 1 scores were available for 99.1 percent of U.S. MD seniors who gave consent to research.

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

Across all specialties, the IQR of U.S. MD seniors who matched to their preferred specialties was higher than those who did not match.

Chart 7

USMLE Step 2 CK Scores of U.S. MD Seniors
by Preferred Specialty and Match Status
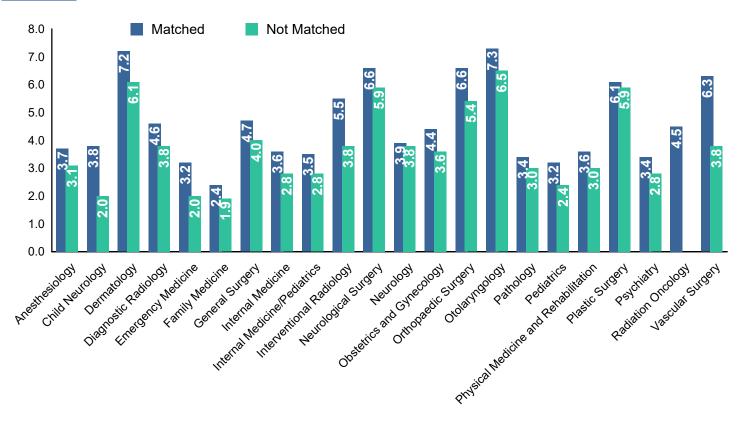
Source: NRMP Data Warehouse

USMLE Step 2 CK scores are a measure of an applicant's ability to apply the medical knowledge, skills, and understanding of clinical science essential for providing patient care. Overall, U.S. MD seniors who matched to their preferred specialty had *mean* USMLE Step 2 CK scores of 242.0 (s.d. = 14.9), well above the 2022 minimum passing score of 209. Step 2 CK scores were available for 98.3 percent of U.S. MD seniors who gave consent to research.

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

Across all specialties, the IQR of U.S. MD seniors who matched to their preferred specialties was higher than those who did not match.

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Source: NRMP Data Warehouse
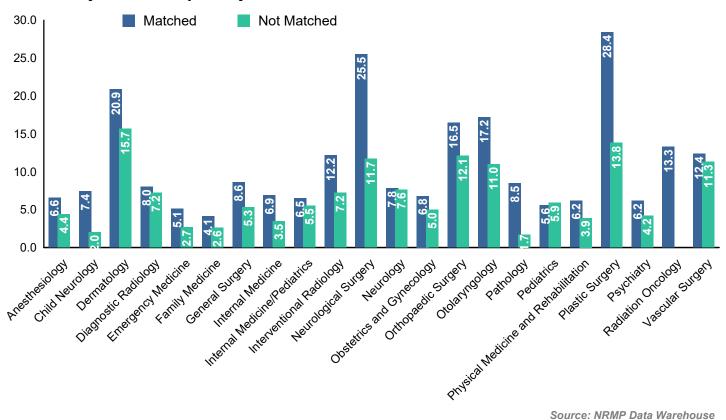
Applicants were asked to report the number of research experiences entered in their Electronic Residency Application Service (ERAS) applications. The experiences are not verified or evaluated and quality may vary greatly. Chart 8 shows the average number of research experiences by preferred specialty and Match outcome. U.S. MD seniors averaged 4.0 research experiences, with 74 percent reporting this information. For all specialties, matched U.S. MD seniors had a higher average number of research experiences. Data were not reported for unmatched U.S. MD senior applicants preferring Radiation Oncology.

Chart 9

Mean Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
by Preferred Specialty and Match Status

Source: NRMP Data Warehouse
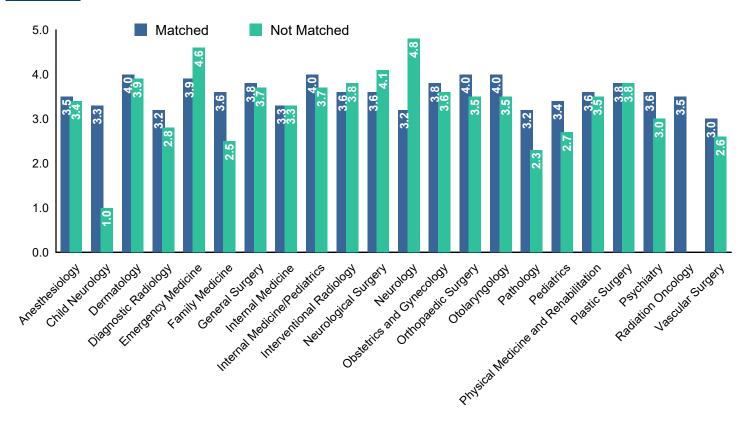
Applicants were asked to list the number of abstracts, presentations, and publications they reported in their ERAS applications. This information is self-reported and may include peer-reviewed articles, abstracts, poster sessions, and invited national or regional presentations. Some residency programs may independently verify and even review publications for applicants in whom they have an interest, but most probably do not.

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

U.S. MD seniors averaged 8.1 publications, with 73.9 percent reporting this information. Matched U.S. MD seniors had a higher mean number of abstracts, presentations, and publications in all specialties except Pediatrics. Data were not reported for unmatched U.S. MD senior applicants preferring Radiation Oncology.

Chart 10

Mean Number of Work Experiences of U.S. MD Seniors
by Preferred Specialty and Match Status

Legend: ■ Matched ■ Not Matched

Specialty	Matched	Not Matched
Anesthesiology	3.5	3.4
Child Neurology	3.3	1.0
Dermatology	4.0	3.9
Diagnostic Radiology	3.2	2.8
Emergency Medicine	3.9	4.6
Family Medicine	3.6	2.5
General Surgery	3.8	3.7
Internal Medicine	3.3	3.3
Internal Medicine/Pediatrics	4.0	3.7
Interventional Radiology	3.6	3.8
Neurological Surgery	3.6	4.1
Neurology	3.2	4.8
Obstetrics and Gynecology	3.8	3.6
Orthopaedic Surgery	4.0	3.5
Otolaryngology	4.0	3.5
Pathology	3.2	2.3
Pediatrics	3.4	2.7
Physical Medicine and Rehabilitation	3.6	3.5
Plastic Surgery	3.8	3.8
Psychiatry	3.6	3.0
Radiation Oncology	3.5	
Vascular Surgery	3.0	2.6

Source: NRMP Data Warehouse

Applicants were asked to list the number of work experiences they reported in their ERAS application. Chart 10 shows the average number of work experiences by preferred specialty and Match outcome. Although there is little variation across or within specialties for U.S. MD seniors (matched or not matched), the patterns are less consistent; unmatched applicants preferring Emergency Medicine and Neurology show more work experiences than their matched counterparts but fewer among applicants that prefer Child Neurology, Family Medicine and Pathology. Nearly three-quarters (73.6%) of U.S. MD seniors reported work experiences, with an average of 3.6 work experiences for all U.S. MD seniors. Differences in mean number of work experiences are small in most specialties. Data were not reported for unmatched U.S. MD senior applicants preferring Radiation Oncology.

Charting Outcomes in the Match: U.S. MD Seniors, 2022
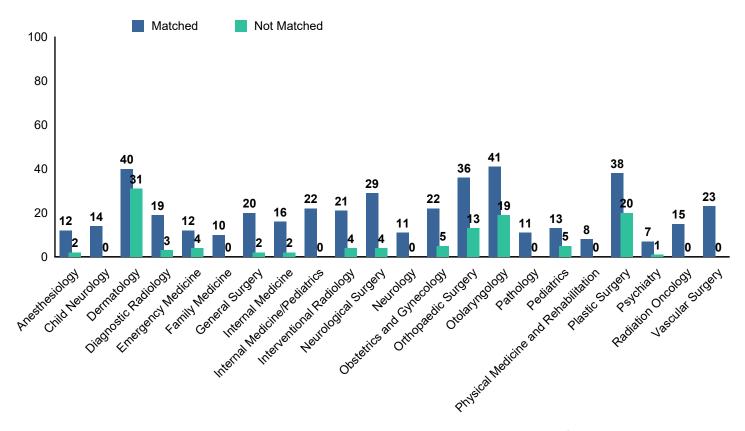
Applicants were asked to list the number of volunteer experiences they reported in their ERAS applications. Chart 11 displays the average number of volunteer experiences by preferred specialty and Match outcome. Aside from Interventional Radiology, matched U.S. MD seniors averaged more volunteer experiences compared to unmatched U.S. MD seniors in the same specialties. U.S. MD seniors averaged 8.3 volunteer experiences, with 73.6 percent reporting at least one experience. Data were not reported for unmatched U.S. MD senior applicants preferring Radiation Oncology.

Chart 12

Percentage of U.S. MD Seniors Who Are Members of AOA
by Preferred Specialty and Match Status
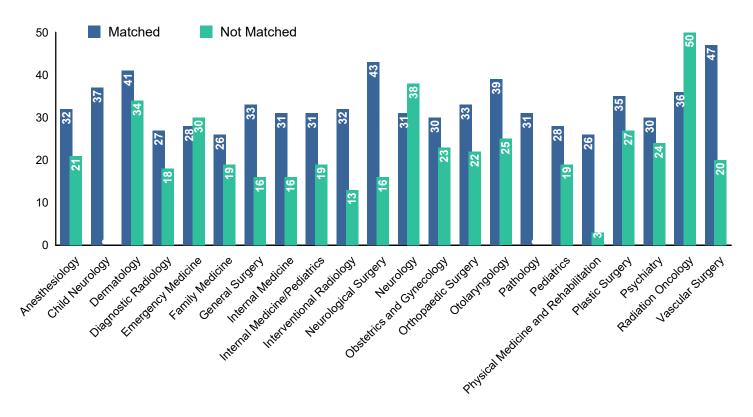
Membership in Alpha Omega Alpha (AOA) Honor Medical Society is an honor reserved for students with high academic achievement. AOA membership is limited to students in medical schools that sponsor an AOA chapter. Most, but not all, M.D.-granting medical schools in the United States participate. An analysis of its relationship with success in the Match is limited by the relatively small number of applicants who are members, by the fact that some schools do not have AOA chapters, and by the fact that other schools elect AOA members too late in the academic year for it to be considered in the application process.

Data on AOA membership are self-reported. Overall, 13.4 percent of U.S. MD seniors included in this report claimed AOA membership. Among matched U.S. MD seniors, 18.2 percent reported AOA membership, compared to 10.0 percent of unmatched applicants.

As with several of the other measures, the most competitive specialties are able to attract the greatest proportion of AOA members. All specialties attract some AOA applicants, but for most specialties AOA members account for fewer than one in four successful applicants.

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart 13

Percentage of U.S. MD Seniors Graduating from One of the 40 U.S. Medical Schools with the Highest NIH Funding*
by Preferred Specialty and Match Status

Legend: ■ Matched ■ Not Matched

Specialty	Matched	Not Matched
Anesthesiology	32	21
Child Neurology	37	
Dermatology	41	34
Diagnostic Radiology	27	18
Emergency Medicine	28	30
Family Medicine	26	19
General Surgery	33	16
Internal Medicine	31	16
Internal Medicine/Pediatrics	31	19
Interventional Radiology	32	13
Neurological Surgery	43	16
Neurology	31	38
Obstetrics and Gynecology	30	23
Orthopaedic Surgery	33	22
Otolaryngology	39	25
Pathology	31	
Pediatrics	28	19
Physical Medicine and Rehabilitation	26	3
Plastic Surgery	35	27
Psychiatry	30	24
Radiation Oncology	36	50
Vascular Surgery	47	20

Source: NRMP Data Warehouse

*NIH funding information was obtained from NIH website: http://report.nih.gov/award/index.cfm.

Some program directors may give preference to applicants with research experience or who graduated from a research-intensive medical school. To test that assumption, we obtained data on the amount of NIH grant awards and identified the 40 schools with the highest NIH funding. This measure, by definition, is limited to students of U.S. medical schools. Overall, 31.2 percent of matched and 22.6 percent of unmatched MD seniors were graduates of one of the 40 medical schools with the highest NIH funding.

Chart 13 shows the percentage of U.S. MD seniors who graduated from those schools by specialty and Match outcome. For example, 32 percent of U.S. MD seniors who matched in Anesthesiology were graduates of one of the 40 medical schools with the highest NIH funding, and 21 percent of U.S. MD seniors who did not match in Anesthesiology were graduates of those schools.

Vascular Surgery had the highest percentage of matched U.S. MD seniors who were graduates of a medical school with the highest NIH funding. Neurological Surgery, Dermatology, Otolaryngology, and Child Neurology also had higher percentages of matched applicants from those schools compared to the other specialties. For all specialties except Emergency Medicine, Neurology and Radiation Oncology, the percentages of MD seniors who did not match to their preferred specialty were lower compared to MD seniors who matched, with the more notable differences in the latter two specialties. Data were not reported for unmatched U.S. MD senior applicants preferring Child Neurology or Pathology.

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart 14

Percentage of U.S. MD Seniors Who Have a Graduate Degree
by Preferred Specialty and Match Status

Ph.D.

Legend: ■ Matched ■ Not Matched

Specialty	Matched	Not Matched
Anesthesiology	2	1
Child Neurology	21	0
Dermatology	6	5
Diagnostic Radiology	4	3
Emergency Medicine	1	0
Family Medicine	1	0
General Surgery	2	1
Internal Medicine	5	2
Internal Medicine/Pediatrics	2	0
Interventional Radiology	5	10
Neurological Surgery	11	8
Neurology	9	0
Obstetrics and Gynecology	2	1
Orthopaedic Surgery	1	1
Otolaryngology	4	0
Pathology	22	0
Pediatrics	3	6
Physical Medicine and Rehabilitation	1	0
Plastic Surgery	2	1
Psychiatry	5	3
Radiation Oncology	20	
Vascular Surgery	5	7

Other Graduate Degrees

Legend: ■ Matched ■ Not Matched

Specialty	Matched	Not Matched
Anesthesiology	19	22
Child Neurology	13	50
Dermatology	16	20
Diagnostic Radiology	17	15
Emergency Medicine	20	30
Family Medicine	18	26
General Surgery	24	24
Internal Medicine	19	14
Internal Medicine/Pediatrics	23	29
Interventional Radiology	21	25
Neurological Surgery	23	24
Neurology	14	38
Obstetrics and Gynecology	20	15
Orthopaedic Surgery	15	20
Otolaryngology	18	18
Pathology	17	33
Pediatrics	16	39
Physical Medicine and Rehabilitation	17	28
Plastic Surgery	21	29
Psychiatry	19	23
Radiation Oncology	19	
Vascular Surgery	21	27

Source: NRMP Data Warehouse

Chart 14 shows by preferred specialty and match status the percentage of U.S. MD seniors who have a Ph.D. and/or other graduate degrees. Pathology, Radiation Oncology, Child Neurology, Neurological Surgery, and Neurology had the highest percentages of matched U.S. MD seniors with a Ph.D. degree. For most specialties, the percentage of unmatched U.S. MD seniors who have other graduate degrees was higher than that of their matched counterparts. Data is unavailable for unmatched U.S. MD senior applicants preferring Radiation Oncology due to a very low number of unmatched applicants.

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

AN Anesthesiology

Summary Statistics on U.S. MD Seniors
Anesthesiology

Measure	Matched (n=1,050)	Unmatched (n=119)
1. Mean number of contiguous ranks	15.7	6.3
2. Mean number of distinct specialties ranked	1.4	1.9
3. Mean USMLE Step 1 score	237	221
4. Mean USMLE Step 2 score	248	231
5. Mean number of research experiences	3.7	3.1
6. Mean number of abstracts, presentations, and publications	6.6	4.4
7. Mean number of work experiences	3.5	3.4
8. Mean number of volunteer experiences	7.7	6.5
9. Percentage who are AOA members	12.3	1.7
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	32.1	21.0
11. Percentage who have Ph.D. degree	2.0	0.9
12. Percentage who have another graduate degree	18.7	21.6

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
Anesthesiology

■ Matched   ■ Not Matched

Number of Applicants (y-axis)

- 1: Matched 751, Not Matched 40
- 2: Matched 168, Not Matched 51
- 3: Matched 116, Not Matched 24
- 4 or More: Matched 15, Not Matched 4

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Anesthesiology

■ Matched   ■ Not Matched

Number of Applicants (y-axis)

- 1: Matched 15, Not Matched 16
- 2: Matched 18, Not Matched 20
- 3: Matched 11, Not Matched 12
- 4: Matched 15, Not Matched 14
- 5: Matched 19, Not Matched 5
- 6: Matched 25, Not Matched 4
- 7: Matched 37, Not Matched 7
- 8: Matched 37, Not Matched 7
- 9: Matched 32, Not Matched 8
- 10: Matched 53, Not Matched 2
- 11: Matched 57, Not Matched 4
- 12: Matched 52, Not Matched 4
- 13: Matched 45, Not Matched 3
- 14: Matched 48, Not Matched 3
- 15: Matched 59, Not Matched 3
- 16 or More: Matched 527, Not Matched 7

Contiguous Ranks

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

Probability of Matching

Number of Contiguous Ranks

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

USMLE Step 1 Scores of U.S. MD Seniors
Anesthesiology

■ Matched ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	8	8
Between 201 and 210	30	25
Between 211 and 220	99	27
Between 221 and 230	183	26
Between 231 and 240	286	21
Between 241 and 250	264	7
Between 251 and 260	139	1
>260	36	2
Score Unknown	5	2

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Anesthesiology

■ Matched ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	1
Between 201 and 210	3	2
Between 211 and 220	16	26
Between 221 and 230	79	26
Between 231 and 240	188	31
Between 241 and 250	292	23
Between 251 and 260	289	6
>260	164	0
Score Unknown	19	4

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

Probability of Matching

Step 1 Score

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Anesthesiology

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Research Projects	Matched	Not Matched
None	16	7
1	108	17
2	172	19
3	223	31
4	187	12
5 or More	266	17

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Anesthesiology

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Publications	Matched	Not Matched
None	64	12
1	90	14
2	99	20
3	126	18
4	95	14
5 or More	497	27

Publications

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Anesthesiology

■ **Matched** ■ **Not Matched**

Number of Applicants

Work Experiences	Matched	Not Matched
None	37	10
1	124	17
2	180	17
3	201	16
4	165	11
5 or More	262	29

Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Anesthesiology

■ **Matched** ■ **Not Matched**

Number of Applicants

Volunteer Experiences	Matched	Not Matched
None	1	0
1	9	1
2	24	7
3	57	11
4	92	17
5	121	14
6	109	5
7	131	14
8	110	11
9	74	4
10 or More	240	18

Volunteer Experiences

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Anesthesiology

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

CN Child Neurology

Summary Statistics on U.S. MD Seniors
Child Neurology

Measure	Matched (n=84)	Unmatched (n=2)
1. Mean number of contiguous ranks	13.4	1.5
2. Mean number of distinct specialties ranked	1.3	2.0
3. Mean USMLE Step 1 score	234	214
4. Mean USMLE Step 2 score	247	241
5. Mean number of research experiences	3.8	2.0
6. Mean number of abstracts, presentations, and publications	7.4	2.0
7. Mean number of work experiences	3.3	1.0
8. Mean number of volunteer experiences	7.8	7.0
9. Percentage who are AOA members	14.3	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	36.9	0.0
11. Percentage who have Ph.D. degree	21.3	0.0
12. Percentage who have another graduate degree	13.3	50.0

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
Child Neurology

■ Matched   ■ Not Matched

Number of Applicants

- 1: Matched 63, Not Matched 0
- 2: Matched 17, Not Matched 2
- 3: Matched 2, Not Matched 0
- 4 or More: Matched 2, Not Matched 0

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Child Neurology

■ Matched   ■ Not Matched

Number of Applicants

- 1: Matched 2, Not Matched 1
- 2: Matched 1, Not Matched 1
- 3: Matched 0, Not Matched 0
- 4: Matched 4, Not Matched 0
- 5: Matched 4, Not Matched 0
- 6: Matched 3, Not Matched 0
- 7: Matched 2, Not Matched 0
- 8: Matched 3, Not Matched 0
- 9: Matched 2, Not Matched 0
- 10: Matched 3, Not Matched 0
- 11: Matched 2, Not Matched 0
- 12: Matched 5, Not Matched 0
- 13: Matched 6, Not Matched 0
- 14: Matched 6, Not Matched 0
- 15: Matched 13, Not Matched 0
- 16 or More: Matched 28, Not Matched 0

Contiguous Ranks

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Child Neurology

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart CN-3

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

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	1	1
Between 201 and 210	7	0
Between 211 and 220	12	0
Between 221 and 230	9	0
Between 231 and 240	23	1
Between 241 and 250	18	0
Between 251 and 260	9	0
>260	5	0
Score Unknown	0	0

Step 1 Scores
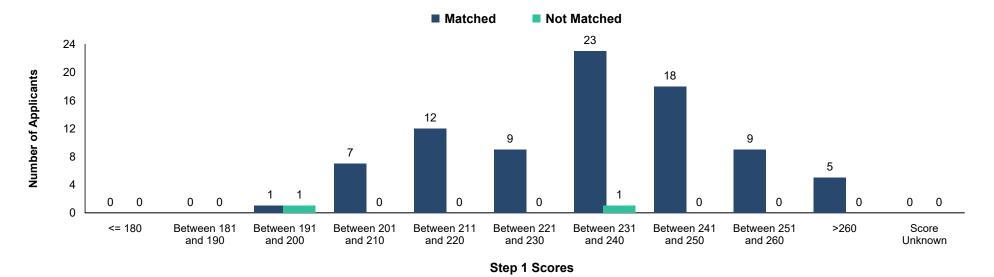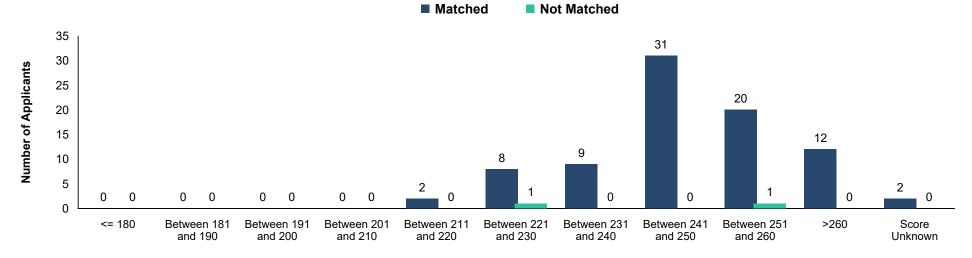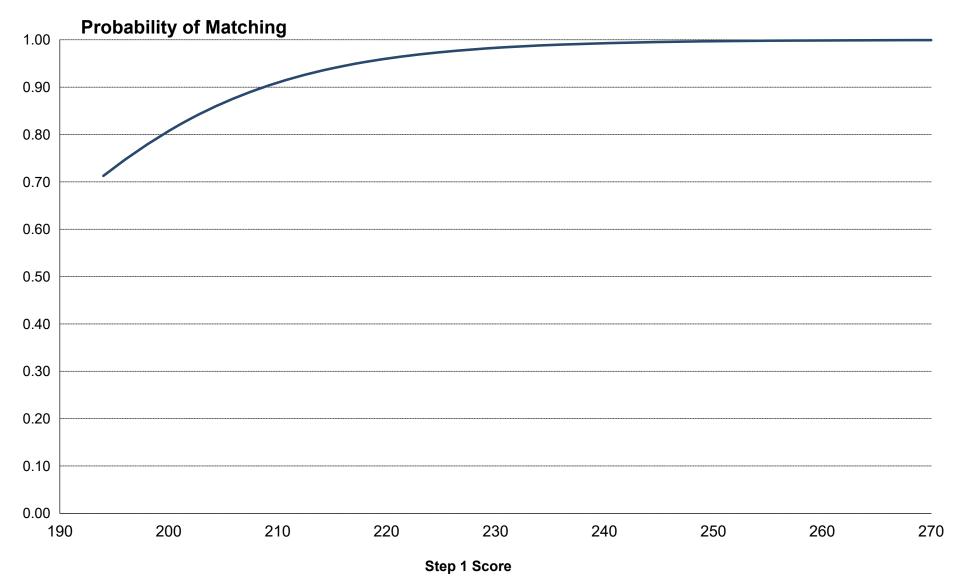
Chart CN-4

USMLE Step 2 CK Scores of U.S. MD Seniors
Child Neurology

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	2	0
Between 221 and 230	8	1
Between 231 and 240	9	0
Between 241 and 250	31	0
Between 251 and 260	20	1
>260	12	0
Score Unknown	2	0

Step 2 CK Scores

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Child Neurology

Probability of Matching

Step 1 Score

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Child Neurology

■ **Matched**   ■ **Not Matched**

Number of Applicants

	None	1	2	3	4	5 or More
Matched	2	4	6	21	19	22
Not Matched	0	0	1	0	0	0

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Child Neurology

■ **Matched**   ■ **Not Matched**

Number of Applicants

	None	1	2	3	4	5 or More
Matched	5	6	5	4	12	42
Not Matched	0	0	1	0	0	0

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Child Neurology

■ Matched   **■ Not Matched**

Number of Applicants (y-axis), Work Experiences (x-axis)

- None: Matched 4, Not Matched 0
- 1: Matched 13, Not Matched 1
- 2: Matched 17, Not Matched 0
- 3: Matched 10, Not Matched 0
- 4: Matched 11, Not Matched 0
- 5 or More: Matched 19, Not Matched 0

Number of Volunteer Experiences of U.S. MD Seniors
Child Neurology

■ Matched   **■ Not Matched**

Number of Applicants (y-axis), Volunteer Experiences (x-axis)

- None: Matched 1, Not Matched 0
- 1: Matched 0, Not Matched 0
- 2: Matched 3, Not Matched 0
- 3: Matched 4, Not Matched 0
- 4: Matched 7, Not Matched 0
- 5: Matched 8, Not Matched 0
- 6: Matched 6, Not Matched 0
- 7: Matched 10, Not Matched 1
- 8: Matched 9, Not Matched 0
- 9: Matched 4, Not Matched 0
- 10 or More: Matched 22, Not Matched 0

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

■ Matched　　■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Summary Statistics on U.S. MD Seniors
Dermatology

Measure	Matched (n=348)	Unmatched (n=131)
1. Mean number of contiguous ranks	9.1	5.2
2. Mean number of distinct specialties ranked	2.2	2.3
3. Mean USMLE Step 1 score	248	244
4. Mean USMLE Step 2 score	257	251
5. Mean number of research experiences	7.2	6.1
6. Mean number of abstracts, presentations, and publications	20.9	15.7
7. Mean number of work experiences	4.0	3.9
8. Mean number of volunteer experiences	11.0	9.3
9. Percentage who are AOA members	39.7	30.5
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	41.4	33.6
11. Percentage who have Ph.D. degree	6.0	5.0
12. Percentage who have another graduate degree	15.9	20.3

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Chart DM-1

Number of Distinct Specialties Ranked by U.S. MD Seniors
Dermatology

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants

Distinct Specialties Ranked	Matched	Not Matched
1	86	19
2	107	61
3	147	43
4 or More	7	8

Chart DM-2

Number of Contiguous Ranks of U.S. MD Seniors
Dermatology

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants

Contiguous Ranks	Matched	Not Matched
1	8	8
2	16	19
3	17	17
4	27	20
5	37	28
6	26	6
7	29	9
8	30	7
9	23	6
10	20	1
11	16	2
12	15	3
13	9	1
14	18	1
15	9	0
16 or More	48	3

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

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

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Dermatology

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	2
Between 201 and 210	4	2
Between 211 and 220	9	11
Between 221 and 230	21	10
Between 231 and 240	50	17
Between 241 and 250	95	37
Between 251 and 260	116	35
>260	51	15
Score Unknown	2	2

Step 1 Scores

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

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	3	4
Between 221 and 230	9	10
Between 231 and 240	26	12
Between 241 and 250	58	27
Between 251 and 260	97	39
>260	145	35
Score Unknown	10	4

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

Probability of Matching

Step 1 Score

Number of Research Projects of U.S. MD Seniors
Dermatology

■ Matched ■ Not Matched

X-axis: Research Projects (None, 1, 2, 3, 4, 5 or More)
Y-axis: Number of Applicants

Research Projects	Matched	Not Matched
None	2	0
1	4	5
2	12	12
3	26	8
4	36	11
5 or More	215	70

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Dermatology

■ Matched ■ Not Matched

X-axis: Publications (None, 1, 2, 3, 4, 5 or More)
Y-axis: Number of Applicants

Publications	Matched	Not Matched
None	1	0
1	2	3
2	1	4
3	3	5
4	6	5
5 or More	281	93

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Dermatology

■ **Matched**   ■ **Not Matched**

Work Experiences (x-axis), Number of Applicants (y-axis)

Work Experiences	Matched	Not Matched
None	7	5
1	25	12
2	56	21
3	45	16
4	52	12
5 or More	108	39

Number of Volunteer Experiences of U.S. MD Seniors
Dermatology

■ **Matched**   ■ **Not Matched**

Volunteer Experiences (x-axis), Number of Applicants (y-axis)

Volunteer Experiences	Matched	Not Matched
None	0	0
1	0	0
2	1	0
3	4	6
4	8	1
5	17	12
6	23	11
7	26	8
8	22	14
9	21	9
10 or More	172	45

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Dermatology

■ **Matched**   ■ **Not Matched**

AOA Membership

Number of Applicants

- Yes: 138 (Matched), 40 (Not Matched)
- No: 163 (Matched), 79 (Not Matched)

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

Number of Applicants

- Yes: 144 (Matched), 44 (Not Matched)
- No: 204 (Matched), 87 (Not Matched)

Ph.D. Degree

Number of Applicants

- Yes: 19 (Matched), 6 (Not Matched)
- No: 299 (Matched), 115 (Not Matched)

Other Graduate Degree

Number of Applicants

- Yes: 51 (Matched), 24 (Not Matched)
- No: 269 (Matched), 94 (Not Matched)

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

DR Diagnostic Radiology

Summary Statistics on U.S. MD Seniors
Diagnostic Radiology

Measure	Matched (n=638)	Unmatched (n=124)
1. Mean number of contiguous ranks	14.9	7.5
2. Mean number of distinct specialties ranked	1.7	1.9
3. Mean USMLE Step 1 score	245	233
4. Mean USMLE Step 2 score	253	241
5. Mean number of research experiences	4.6	3.8
6. Mean number of abstracts, presentations, and publications	8.0	7.2
7. Mean number of work experiences	3.2	2.8
8. Mean number of volunteer experiences	7.2	6.2
9. Percentage who are AOA members	19.3	3.2
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	27.3	17.7
11. Percentage who have Ph.D. degree	4.2	3.4
12. Percentage who have another graduate degree	16.6	15.4

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Distinct Specialties Ranked by U.S. MD Seniors
Diagnostic Radiology

■ Matched ■ Not Matched

Y-axis: Number of Applicants

- 1: Matched 377, Not Matched 50
- 2: Matched 119, Not Matched 37
- 3: Matched 127, Not Matched 34
- 4 or More: Matched 15, Not Matched 3

X-axis: Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Diagnostic Radiology

■ Matched ■ Not Matched

Y-axis: Number of Applicants

- 1: Matched 15, Not Matched 10
- 2: Matched 10, Not Matched 11
- 3: Matched 7, Not Matched 6
- 4: Matched 8, Not Matched 8
- 5: Matched 10, Not Matched 14
- 6: Matched 15, Not Matched 8
- 7: Matched 17, Not Matched 9
- 8: Matched 27, Not Matched 12
- 9: Matched 22, Not Matched 4
- 10: Matched 31, Not Matched 7
- 11: Matched 39, Not Matched 10
- 12: Matched 41, Not Matched 8
- 13: Matched 27, Not Matched 10
- 14: Matched 31, Not Matched 1
- 15: Matched 36, Not Matched 1
- 16 or More: Matched 302, Not Matched 5

X-axis: Contiguous Ranks

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022
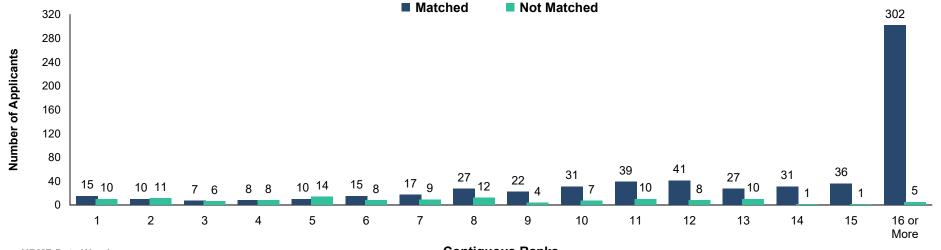
Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Diagnostic Radiology

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart DR-3

USMLE Step 1 Scores of U.S. MD Seniors
Diagnostic Radiology

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	2	3
Between 201 and 210	4	6
Between 211 and 220	15	14
Between 221 and 230	47	25
Between 231 and 240	139	42
Between 241 and 250	204	22
Between 251 and 260	170	11
>260	51	1
Score Unknown	6	0

Step 1 Scores
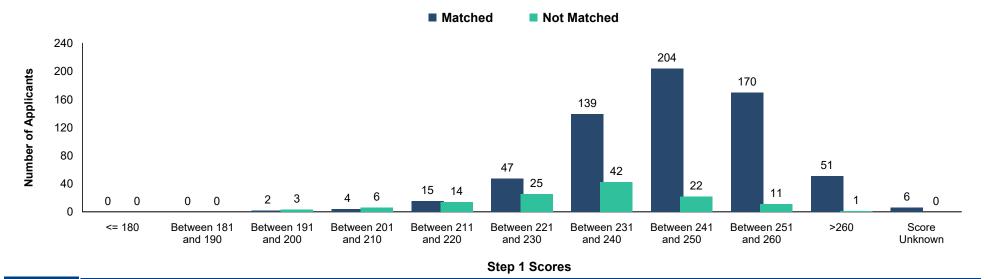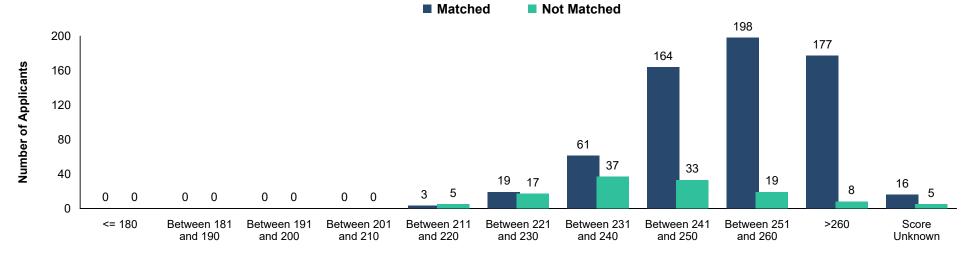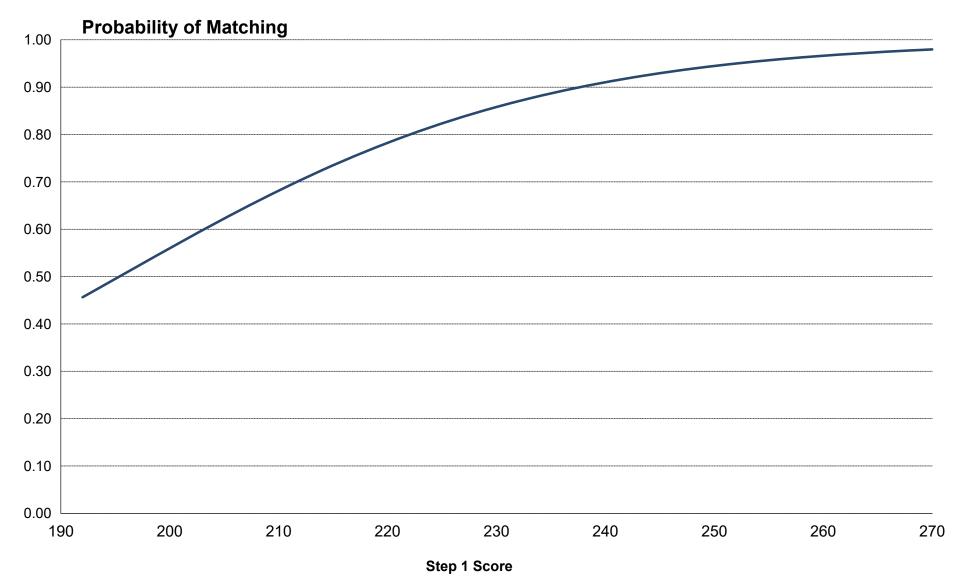
Chart DR-4

USMLE Step 2 CK Scores of U.S. MD Seniors
Diagnostic Radiology

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	3	5
Between 221 and 230	19	17
Between 231 and 240	61	37
Between 241 and 250	164	33
Between 251 and 260	198	19
>260	177	8
Score Unknown	16	5

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Diagnostic Radiology

Probability of Matching

Step 1 Score

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Research Projects of U.S. MD Seniors
Diagnostic Radiology

■ **Matched** ■ **Not Matched**

Number of Applicants

Research Projects	Matched	Not Matched
None	3	2
1	41	13
2	87	19
3	125	19
4	116	24
5 or More	196	32

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Diagnostic Radiology

■ **Matched** ■ **Not Matched**

Number of Applicants

Publications	Matched	Not Matched
None	25	10
1	48	12
2	43	18
3	52	14
4	55	7
5 or More	345	48

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Diagnostic Radiology

■ **Matched**   ■ **Not Matched**

Number of Applicants vs Work Experiences

Work Experiences	None	1	2	3	4	5 or More
Matched	25	83	114	141	73	131
Not Matched	8	15	30	24	12	20

Number of Volunteer Experiences of U.S. MD Seniors
Diagnostic Radiology

■ **Matched**   ■ **Not Matched**

Number of Applicants vs Volunteer Experiences

Volunteer Experiences	None	1	2	3	4	5	6	7	8	9	10 or More
Matched	2	12	21	35	57	73	63	84	60	35	122
Not Matched	2	6	7	10	14	17	13	6	7	8	19

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Diagnostic Radiology

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

EM Emergency Medicine

Table EM-1   Summary Statistics on U.S. MD Seniors
Emergency Medicine

Measure	Matched (n=1,332)	Unmatched (n=23)
1. Mean number of contiguous ranks	15.0	3.0
2. Mean number of distinct specialties ranked	1.1	1.6
3. Mean USMLE Step 1 score	234	219
4. Mean USMLE Step 2 score	247	232
5. Mean number of research experiences	3.2	2.0
6. Mean number of abstracts, presentations, and publications	5.1	2.7
7. Mean number of work experiences	3.9	4.6
8. Mean number of volunteer experiences	8.2	6.9
9. Percentage who are AOA members	11.9	4.3
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	27.9	30.4
11. Percentage who have Ph.D. degree	1.2	0.0
12. Percentage who have another graduate degree	20.3	30.0

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
Emergency Medicine
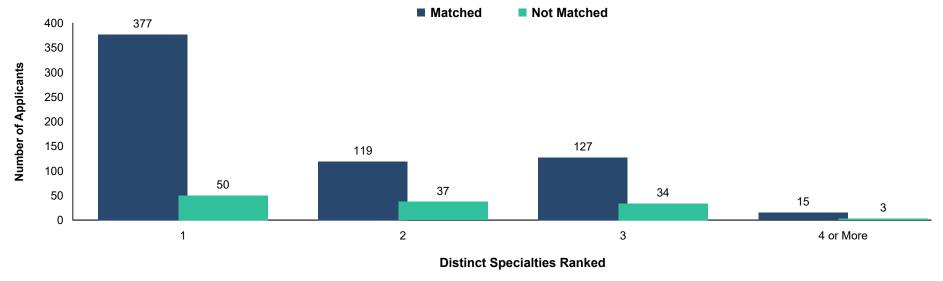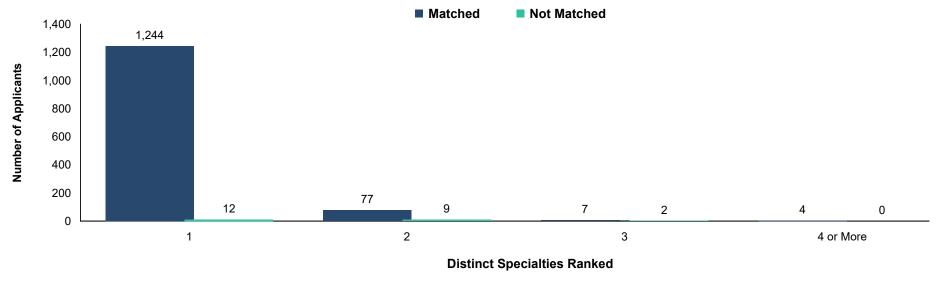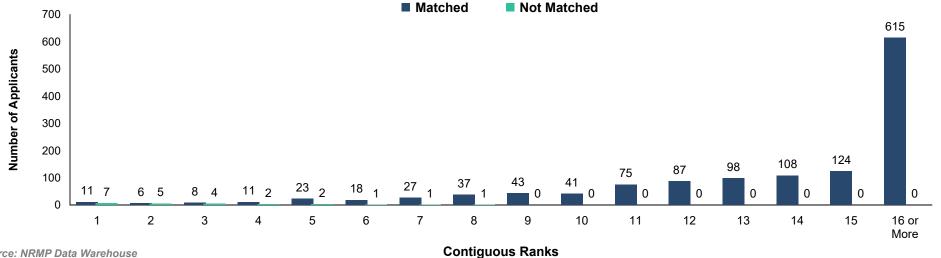
■ Matched   ■ Not Matched

Distinct Specialties Ranked

Distinct Specialties Ranked	Matched	Not Matched
1	1,244	12
2	77	9
3	7	2
4 or More	4	0

Number of Contiguous Ranks of U.S. MD Seniors
Emergency Medicine

■ Matched   ■ Not Matched

Contiguous Ranks

Contiguous Ranks	Matched	Not Matched
1	11	7
2	6	5
3	8	4
4	11	2
5	23	2
6	18	1
7	27	1
8	37	1
9	43	0
10	41	0
11	75	0
12	87	0
13	98	0
14	108	0
15	124	0
16 or More	615	0

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Emergency Medicine

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart EM-3

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

Legend: ■ Matched ■ Not Matched

Number of Applicants (y-axis: 0 to 400)

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	18	5
Between 201 and 210	79	5
Between 211 and 220	144	3
Between 221 and 230	276	2
Between 231 and 240	355	4
Between 241 and 250	270	4
Between 251 and 260	152	0
>260	28	0
Score Unknown	10	0

Step 1 Scores

Chart EM-4

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

Legend: ■ Matched ■ Not Matched

Number of Applicants (y-axis: 0 to 400)

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	3	0
Between 211 and 220	34	6
Between 221 and 230	120	4
Between 231 and 240	243	5
Between 241 and 250	359	6
Between 251 and 260	352	1
>260	198	0
Score Unknown	23	1

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Emergency Medicine

Probability of Matching

Step 1 Score

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants.
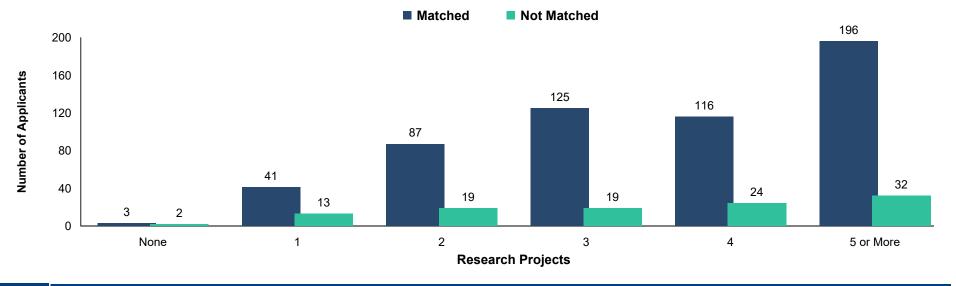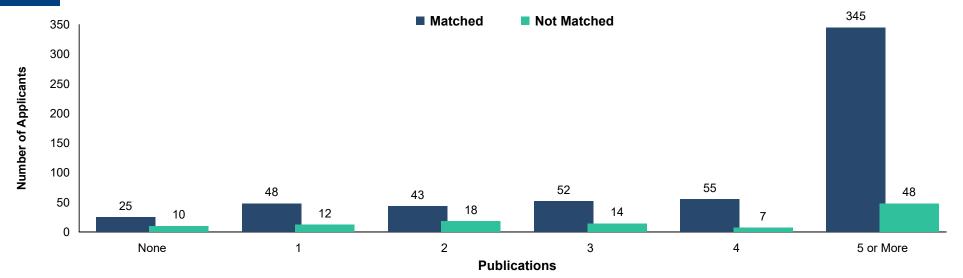
Number of Research Projects of U.S. MD Seniors
Emergency Medicine
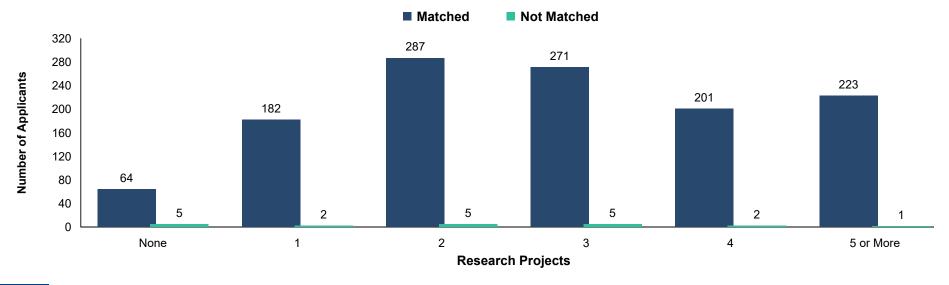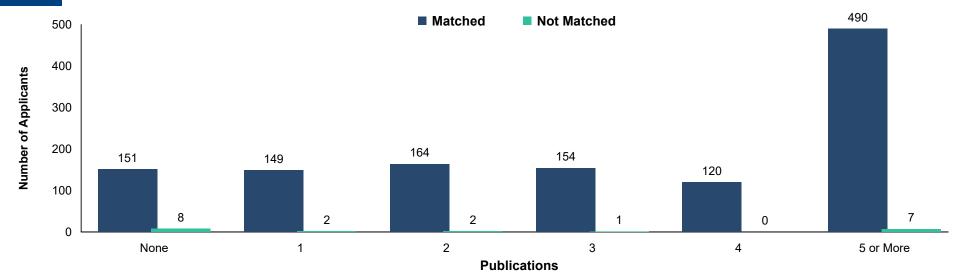
■ **Matched** ■ **Not Matched**

Number of Applicants

Research Projects	Matched	Not Matched
None	64	5
1	182	2
2	287	5
3	271	5
4	201	2
5 or More	223	1

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Emergency Medicine

■ **Matched** ■ **Not Matched**

Number of Applicants

Publications	Matched	Not Matched
None	151	8
1	149	2
2	164	2
3	154	1
4	120	0
5 or More	490	7

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Chart EM-7

Number of Work Experiences of U.S. MD Seniors
Emergency Medicine

■ Matched ■ Not Matched

Number of Applicants

Work Experiences	Matched	Not Matched
None	32	0
1	118	1
2	212	1
3	224	2
4	212	8
5 or More	426	7
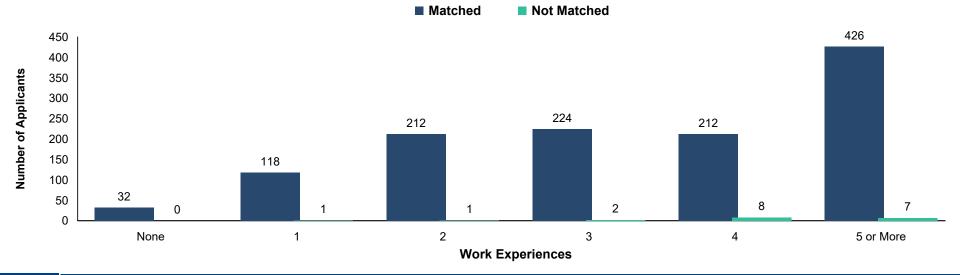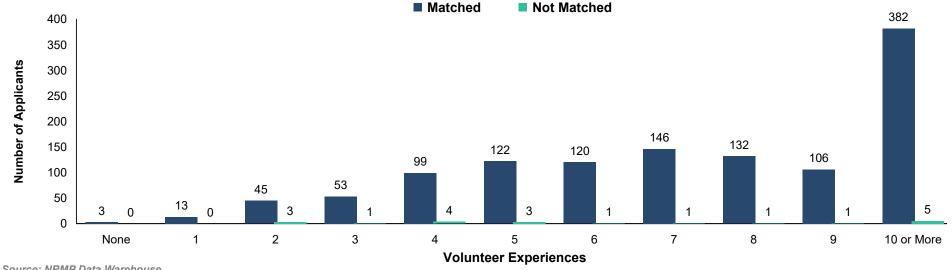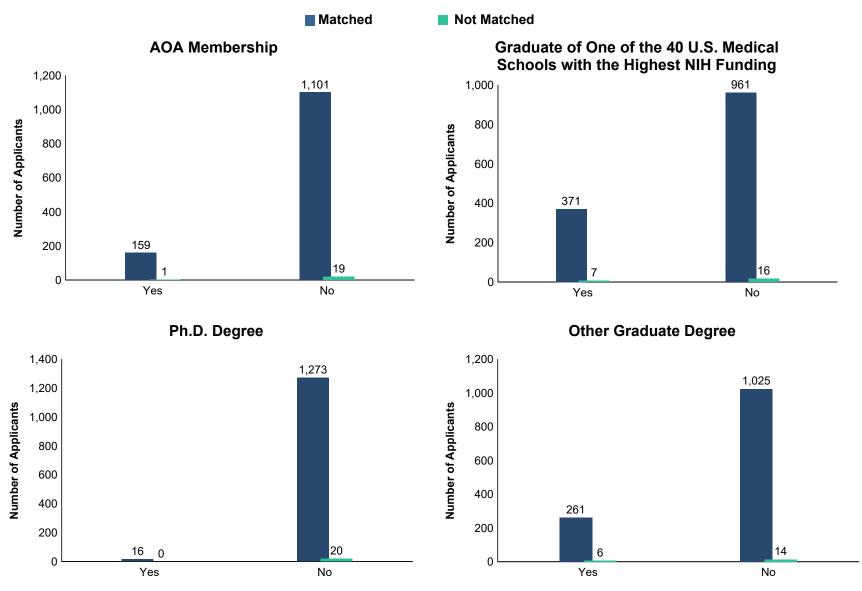
Chart EM-8

Number of Volunteer Experiences of U.S. MD Seniors
Emergency Medicine

■ Matched ■ Not Matched

Number of Applicants

Volunteer Experiences	Matched	Not Matched
None	3	0
1	13	0
2	45	3
3	53	1
4	99	4
5	122	3
6	120	1
7	146	1
8	132	1
9	106	1
10 or More	382	5

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Emergency Medicine

■ Matched　　■ Not Matched

AOA Membership

Number of Applicants

- Yes: 159 (Matched), 1 (Not Matched)
- No: 1,101 (Matched), 19 (Not Matched)

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

Number of Applicants

- Yes: 371 (Matched), 7 (Not Matched)
- No: 961 (Matched), 16 (Not Matched)

Ph.D. Degree

Number of Applicants

- Yes: 16 (Matched), 0 (Not Matched)
- No: 1,273 (Matched), 20 (Not Matched)

Other Graduate Degree

Number of Applicants

- Yes: 261 (Matched), 6 (Not Matched)
- No: 1,025 (Matched), 14 (Not Matched)

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

FM | Family Medicine

Summary Statistics on U.S. MD Seniors
Family Medicine

Measure	Matched (n=1,219)	Unmatched (n=21)
1. Mean number of contiguous ranks	13.7	4.1
2. Mean number of distinct specialties ranked	1.1	1.2
3. Mean USMLE Step 1 score	225	211
4. Mean USMLE Step 2 score	241	228
5. Mean number of research experiences	2.4	1.9
6. Mean number of abstracts, presentations, and publications	4.1	2.6
7. Mean number of work experiences	3.6	2.5
8. Mean number of volunteer experiences	8.3	5.5
9. Percentage who are AOA members	9.8	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	26.3	19.0
11. Percentage who have Ph.D. degree	0.8	0.0
12. Percentage who have another graduate degree	18.3	26.3

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Number of Distinct Specialties Ranked by U.S. MD Seniors
Family Medicine

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants

Distinct Specialties Ranked	Matched	Not Matched
1	1,157	16
2	59	5
3	3	0
4 or More	0	0

X-axis: Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Family Medicine

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants

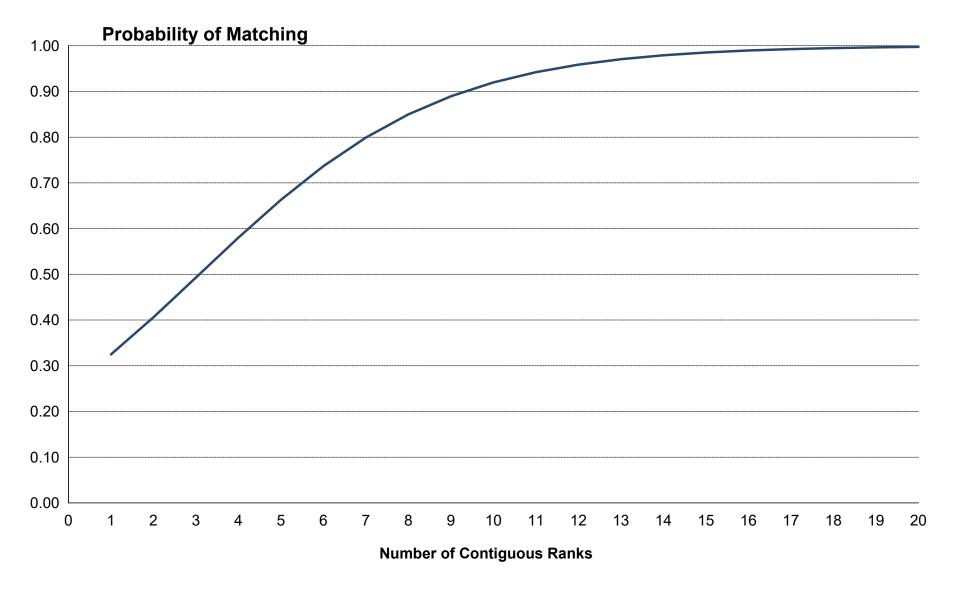| Contiguous Ranks	Matched	Not Matched
1	41	8
2	16	2
3	12	1
4	19	2
5	16	2
6	26	2
7	32	0
8	36	2
9	60	0
10	77	0
11	86	0
12	86	1
13	94	0
14	104	1
15	81	0
16 or More	433	0

X-axis: Contiguous Ranks

Source: NRMP Data Warehouse

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Family Medicine

Probability of Matching

Number of Contiguous Ranks

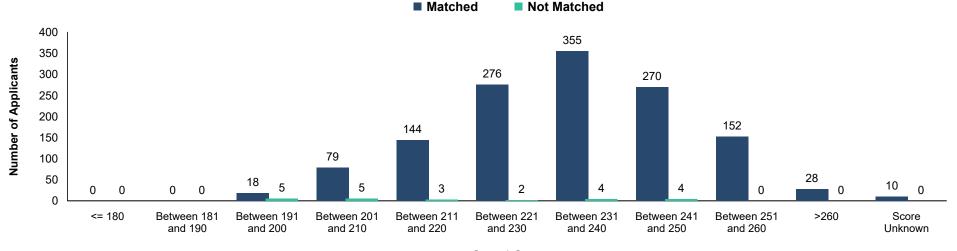*Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants*

USMLE Step 1 Scores of U.S. MD Seniors
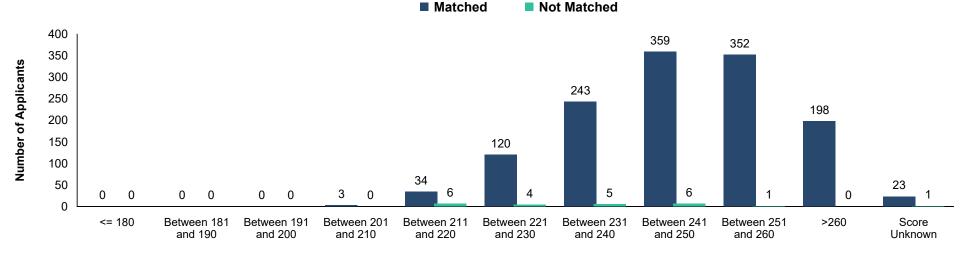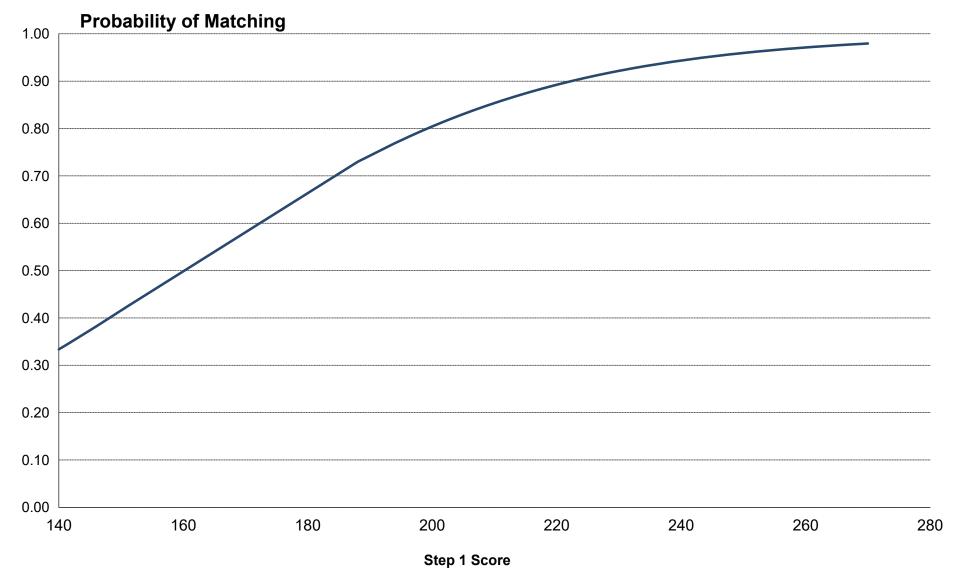*Family Medicine*

■ Matched   ■ Not Matched

Number of Applicants

	<= 180	Between 181 and 190	Between 191 and 200	Between 201 and 210	Between 211 and 220	Between 221 and 230	Between 231 and 240	Between 241 and 250	Between 251 and 260	>260	Score Unknown
Matched	0	1	71	191	235	261	215	153	75	10	7
Not Matched	0	0	7	4	6	2	2	0	0	0	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Family Medicine

■ Matched   ■ Not Matched

Number of Applicants

	<= 180	Between 181 and 190	Between 191 and 200	Between 201 and 210	Between 211 and 220	Between 221 and 230	Between 231 and 240	Between 241 and 250	Between 251 and 260	>260	Score Unknown
Matched	0	0	1	15	92	186	288	280	233	104	20
Not Matched	0	0	0	0	5	5	6	2	0	0	3

Step 2 CK Scores

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Family Medicine

Probability of Matching

Step 1 Score

Chart FM-5

Number of Research Projects of U.S. MD Seniors
Family Medicine

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants

Research Projects	Matched	Not Matched
None	113	5
1	233	3
2	276	1
3	231	2
4	105	1
5 or More	124	2
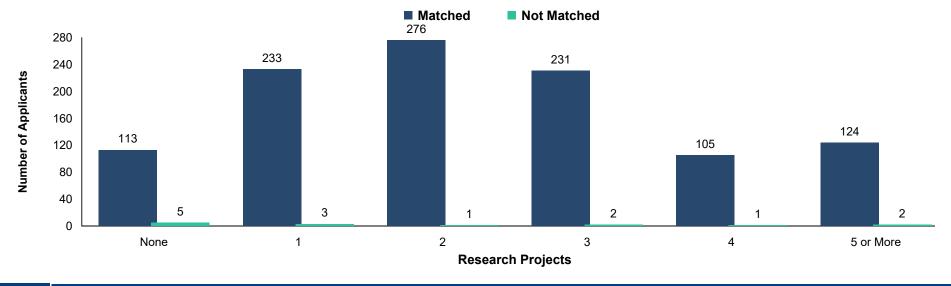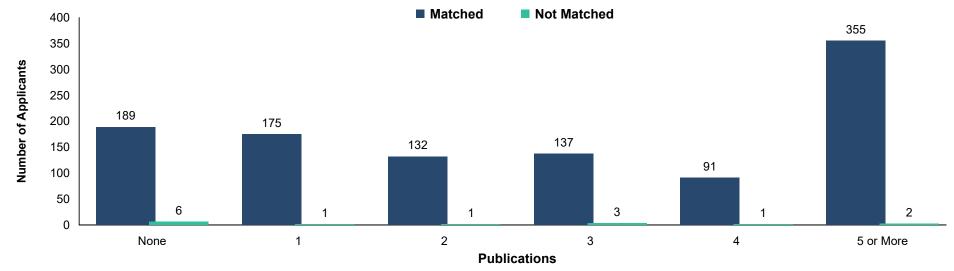
Chart FM-6

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Family Medicine

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants

Publications	Matched	Not Matched
None	189	6
1	175	1
2	132	1
3	137	3
4	91	1
5 or More	355	2

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Family Medicine

■ **Matched** ■ **Not Matched**

Number of Applicants

Work Experiences	Matched	Not Matched
None	45	2
1	143	4
2	202	1
3	206	3
4	162	1
5 or More	321	2

Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Family Medicine

■ **Matched** ■ **Not Matched**

Number of Applicants

Volunteer Experiences	Matched	Not Matched
None	3	1
1	14	1
2	44	0
3	52	3
4	77	0
5	107	1
6	104	2
7	124	1
8	133	2
9	82	1
10 or More	340	1

Volunteer Experiences

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Family Medicine

■ Matched   ■ Not Matched

AOA Membership

Number of Applicants

- Yes: 119 (Matched), 0 (Not Matched)
- No: 1,036 (Matched), 18 (Not Matched)

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

Number of Applicants

- Yes: 321 (Matched), 4 (Not Matched)
- No: 898 (Matched), 17 (Not Matched)

Ph.D. Degree

Number of Applicants

- Yes: 9 (Matched), 0 (Not Matched)
- No: 1,154 (Matched), 18 (Not Matched)

Other Graduate Degree

Number of Applicants

- Yes: 213 (Matched), 5 (Not Matched)
- No: 951 (Matched), 14 (Not Matched)

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

Summary Statistics on U.S. MD Seniors
General Surgery

Measure	Matched (n=826)	Unmatched (n=171)
1. Mean number of contiguous ranks	14.2	7.0
2. Mean number of distinct specialties ranked	1.0	1.1
3. Mean USMLE Step 1 score	237	225
4. Mean USMLE Step 2 score	250	238
5. Mean number of research experiences	4.7	4.0
6. Mean number of abstracts, presentations, and publications	8.6	5.3
7. Mean number of work experiences	3.8	3.7
8. Mean number of volunteer experiences	8.9	7.8
9. Percentage who are AOA members	19.7	2.3
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	33.1	16.4
11. Percentage who have Ph.D. degree	2.3	1.3
12. Percentage who have another graduate degree	24.3	23.7

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
General Surgery
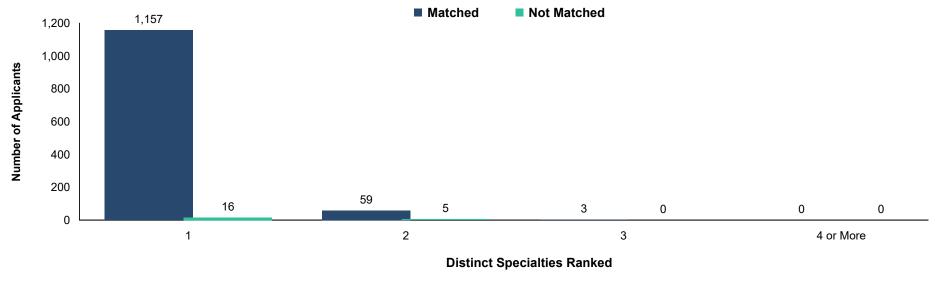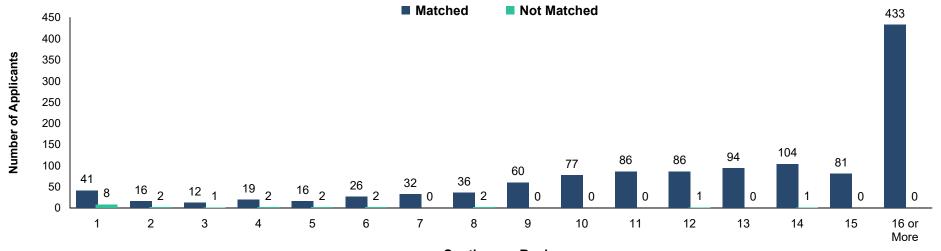

■ Matched   ■ Not Matched

Number of Applicants

	1	2	3	4 or More
Matched	792	29	4	0
Not Matched	152	17	1	1

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
General Surgery

■ Matched   ■ Not Matched

Number of Applicants

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16 or More
Matched	7	7	8	14	17	26	27	23	47	32	52	57	59	55	64	331
Not Matched	16	11	18	14	13	14	12	16	15	10	3	9	6	3	4	7

Contiguous Ranks

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
General Surgery

Probability of Matching

Number of Contiguous Ranks

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

Matched ■   Not Matched ■

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	3	1
Between 201 and 210	16	26
Between 211 and 220	72	43
Between 221 and 230	167	49
Between 231 and 240	232	24
Between 241 and 250	171	16
Between 251 and 260	124	6
>260	38	1
Score Unknown	3	5

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
General Surgery

Matched ■   Not Matched ■

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	1	0
Between 201 and 210	0	0
Between 211 and 220	8	11
Between 221 and 230	41	35
Between 231 and 240	131	49
Between 241 and 250	224	34
Between 251 and 260	239	27
>260	172	5
Score Unknown	10	10

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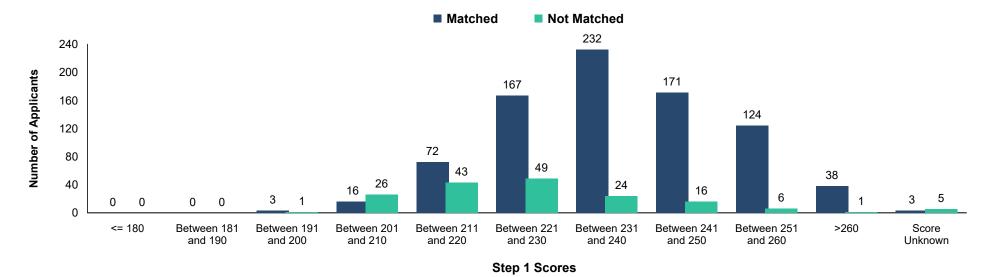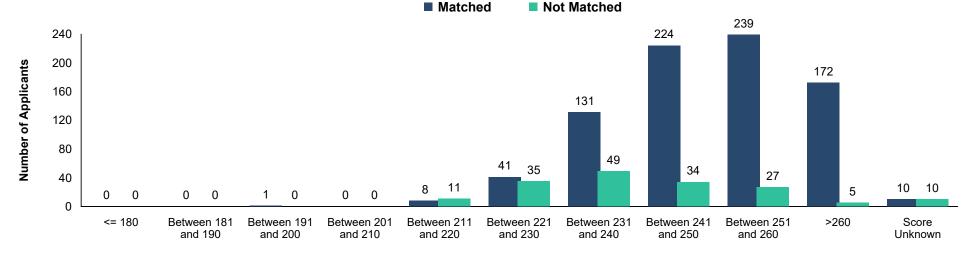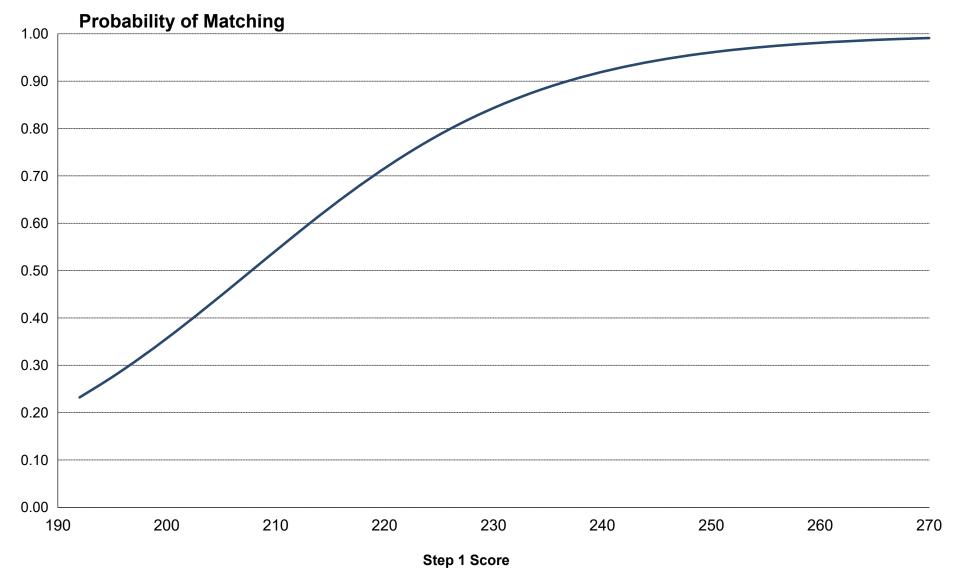
Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
General Surgery

Probability of Matching

Step 1 Score

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
General Surgery

■ **Matched**　■ **Not Matched**

Number of Applicants (y-axis), Research Projects (x-axis)

Research Projects	Matched	Not Matched
None	5	3
1	41	13
2	94	21
3	150	25
4	123	36
5 or More	336	50

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
General Surgery

■ **Matched**　■ **Not Matched**

Number of Applicants (y-axis), Publications (x-axis)

Publications	Matched	Not Matched
None	34	10
1	39	14
2	56	25
3	64	17
4	58	16
5 or More	501	66

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

■ Matched ■ Not Matched

Number of Applicants

Work Experiences

Work Experiences	Matched	Not Matched
None	12	7
1	78	21
2	148	28
3	143	23
4	142	22
5 or More	226	46

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

■ Matched ■ Not Matched

Number of Applicants

Volunteer Experiences

Volunteer Experiences	Matched	Not Matched
None	2	0
1	3	3
2	12	8
3	42	7
4	52	16
5	61	11
6	73	23
7	84	15
8	78	14
9	49	5
10 or More	292	45

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
General Surgery

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

IM | Internal Medicine

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Summary Statistics on U.S. MD Seniors
Internal Medicine

Measure	Matched (n=2,962)	Unmatched (n=55)
1. Mean number of contiguous ranks	14.2	3.3
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	237	218
4. Mean USMLE Step 2 score	249	230
5. Mean number of research experiences	3.6	2.8
6. Mean number of abstracts, presentations, and publications	6.9	3.5
7. Mean number of work experiences	3.3	3.3
8. Mean number of volunteer experiences	7.7	6.3
9. Percentage who are AOA members	16.0	1.8
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	31.4	16.4
11. Percentage who have Ph.D. degree	4.7	2.0
12. Percentage who have another graduate degree	18.6	14.3

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
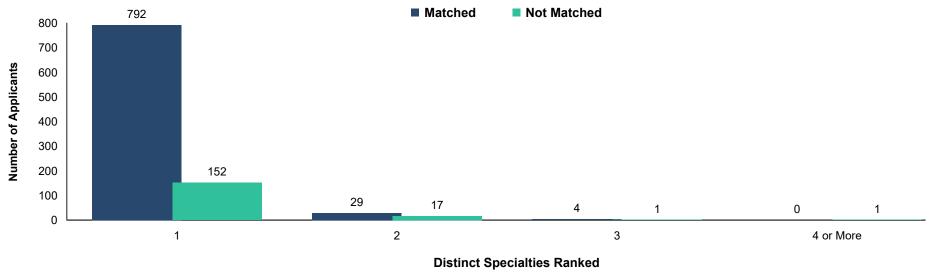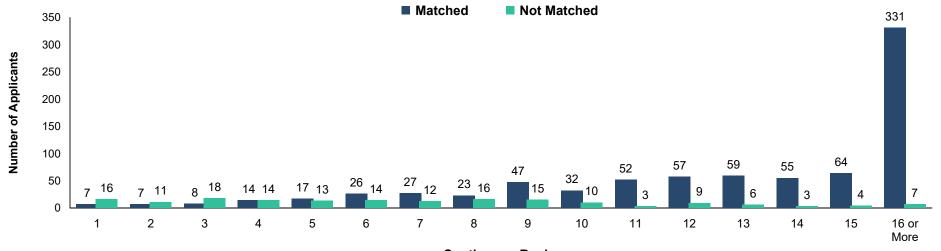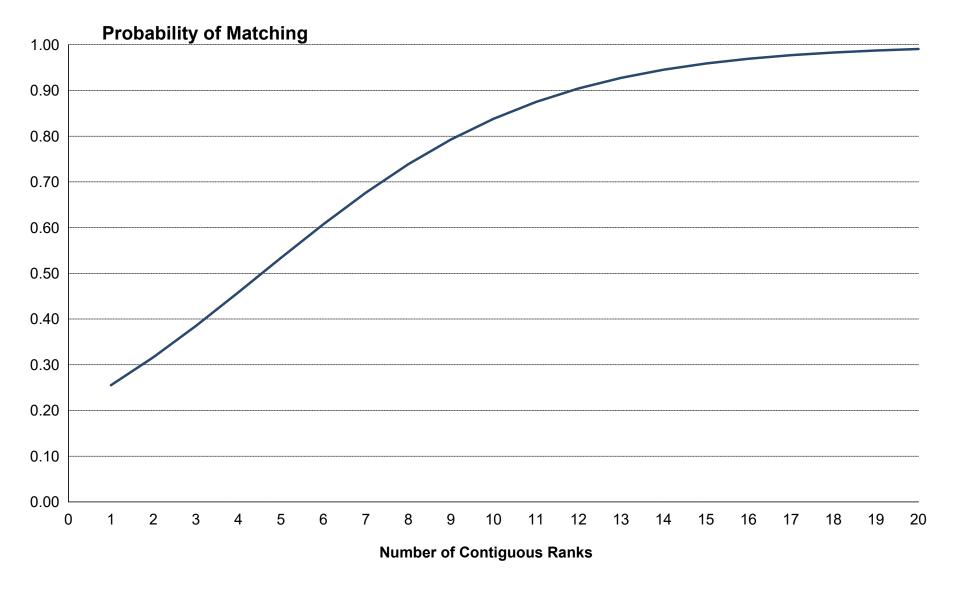*Internal Medicine*

Legend: ■ Matched ■ Not Matched

Y-axis: **Number of Applicants** — 0, 400, 800, 1,200, 1,600, 2,000, 2,400, 2,800, 3,200

Distinct Specialties Ranked	Matched	Not Matched
1	2,841	39
2	106	14
3	15	2
4 or More	0	0

X-axis: **Distinct Specialties Ranked**

Number of Contiguous Ranks of U.S. MD Seniors
Internal Medicine

Legend: ■ Matched ■ Not Matched

Y-axis: **Number of Applicants** — 0, 200, 400, 600, 800, 1,000, 1,200

Contiguous Ranks	Matched	Not Matched
1	44	19
2	26	10
3	45	6
4	37	6
5	60	5
6	47	2
7	88	1
8	125	1
9	146	3
10	152	2
11	178	0
12	222	0
13	208	0
14	227	0
15	220	0
16 or More	1,137	0

X-axis: **Contiguous Ranks**

Source: NRMP Data Warehouse

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Internal Medicine

Probability of Matching

Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Internal Medicine

■ Matched ■ Not Matched

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	71	5
Between 201 and 210	167	21
Between 211 and 220	267	9
Between 221 and 230	437	6
Between 231 and 240	679	3
Between 241 and 250	644	7
Between 251 and 260	533	4
>260	143	0
Score Unknown	21	0

Number of Applicants / Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Internal Medicine

■ Matched ■ Not Matched

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	1
Between 191 and 200	0	0
Between 201 and 210	7	2
Between 211 and 220	87	12
Between 221 and 230	236	9
Between 231 and 240	416	11
Between 241 and 250	700	4
Between 251 and 260	786	3
>260	676	3
Score Unknown	54	10

Number of Applicants / Step 2 CK Scores

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Internal Medicine

Probability of Matching

Step 1 Score

Number of Research Projects of U.S. MD Seniors
Internal Medicine

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Research Projects	Matched	Not Matched
None	78	4
1	247	10
2	472	9
3	641	6
4	472	7
5 or More	765	8

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Internal Medicine

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Publications	Matched	Not Matched
None	172	9
1	239	7
2	280	8
3	271	3
4	235	4
5 or More	1,468	13

Publications

Source: NRMP Data Warehouse

Number of Work Experiences of U.S. MD Seniors
Internal Medicine

■ **Matched**   ■ **Not Matched**

Y-axis: Number of Applicants

Work Experiences	None	1	2	3	4	5 or More
Matched	132	385	546	577	396	624
Not Matched	2	9	8	9	4	12

X-axis: Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Internal Medicine

■ **Matched**   ■ **Not Matched**

Y-axis: Number of Applicants

Volunteer Experiences	None	1	2	3	4	5	6	7	8	9	10 or More
Matched	9	39	92	172	231	283	277	288	308	229	742
Not Matched	0	1	4	4	7	6	2	7	2	4	6

X-axis: Volunteer Experiences

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Internal Medicine

■ **Matched**   ■ **Not Matched**

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

IP Internal Medicine/Pediatrics

Summary Statistics on U.S. MD Seniors
Internal Medicine/Pediatrics

Measure	Matched (n=285)	Unmatched (n=26)
1. Mean number of contiguous ranks	11.9	3.3
2. Mean number of distinct specialties ranked	1.3	2.1
3. Mean USMLE Step 1 score	236	217
4. Mean USMLE Step 2 score	250	234
5. Mean number of research experiences	3.5	2.8
6. Mean number of abstracts, presentations, and publications	6.5	5.5
7. Mean number of work experiences	4.0	3.7
8. Mean number of volunteer experiences	10.3	8.2
9. Percentage who are AOA members	22.1	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	30.5	19.2
11. Percentage who have Ph.D. degree	2.2	0.0
12. Percentage who have another graduate degree	23.1	29.2

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
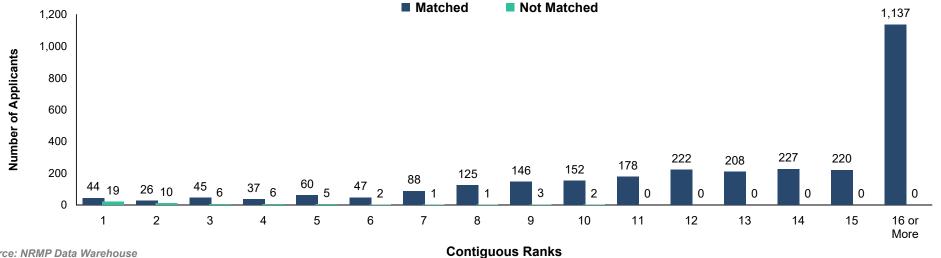*Internal Medicine/Pediatrics*

■ Matched   ■ Not Matched

Number of Applicants

Distinct Specialties Ranked	Matched	Not Matched
1	214	3
2	68	18
3	3	5
4 or More	0	0

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Internal Medicine/Pediatrics

■ Matched   ■ Not Matched

Number of Applicants

Contiguous Ranks	Matched	Not Matched
1	13	8
2	8	4
3	7	6
4	4	3
5	9	0
6	10	1
7	13	1
8	17	1
9	11	1
10	16	1
11	22	0
12	30	0
13	14	0
14	19	0
15	19	0
16 or More	73	0

Contiguous Ranks

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Internal Medicine/Pediatrics

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Internal Medicine/Pediatrics

■ Matched ■ Not Matched

Number of Applicants (y-axis: 0 to 70)

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	3	1
Between 201 and 210	17	7
Between 211 and 220	26	8
Between 221 and 230	51	7
Between 231 and 240	68	3
Between 241 and 250	63	0
Between 251 and 260	40	0
>260	15	0
Score Unknown	2	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Internal Medicine/Pediatrics

■ Matched ■ Not Matched

Number of Applicants (y-axis: 0 to 80)

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	1	1
Between 211 and 220	7	2
Between 221 and 230	21	6
Between 231 and 240	36	11
Between 241 and 250	74	5
Between 251 and 260	76	1
>260	62	0
Score Unknown	8	0

Step 2 CK Scores

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Internal Medicine/Pediatrics

Probability of Matching

Step 1 Score

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants.

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Internal Medicine/Pediatrics

■ **Matched**   ■ **Not Matched**

Number of Applicants

Research Projects	Matched	Not Matched
None	9	4
1	34	3
2	44	3
3	54	6
4	53	5
5 or More	64	3

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Internal Medicine/Pediatrics

■ **Matched**   ■ **Not Matched**

Number of Applicants

Publications	Matched	Not Matched
None	18	6
1	24	2
2	25	3
3	29	2
4	30	2
5 or More	131	9

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Internal Medicine/Pediatrics

■ **Matched**   ■ **Not Matched**

Number of Volunteer Experiences of U.S. MD Seniors
Internal Medicine/Pediatrics

■ **Matched**   ■ **Not Matched**

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Internal Medicine/Pediatrics

■ **Matched**   ■ **Not Matched**

AOA Membership

Number of Applicants

	Yes	No
Matched	63	199
Not Matched	0	22

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

Number of Applicants

	Yes	No
Matched	87	198
Not Matched	5	21

Ph.D. Degree

Number of Applicants

	Yes	No
Matched	6	263
Not Matched	0	24

Other Graduate Degree

Number of Applicants

	Yes	No
Matched	62	206
Not Matched	7	17

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

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Summary Statistics on U.S. MD Seniors
Interventional Radiology

Measure	Matched (n=106)	Unmatched (n=23)
1. Mean number of contiguous ranks	6.4	1.4
2. Mean number of distinct specialties ranked	2.2	2.4
3. Mean USMLE Step 1 score	245	238
4. Mean USMLE Step 2 score	253	251
5. Mean number of research experiences	5.5	3.8
6. Mean number of abstracts, presentations, and publications	12.2	7.2
7. Mean number of work experiences	3.6	3.8
8. Mean number of volunteer experiences	7.6	7.7
9. Percentage who are AOA members	20.8	4.3
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	32.1	13.0
11. Percentage who have Ph.D. degree	4.9	9.5
12. Percentage who have another graduate degree	20.6	25.0

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

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

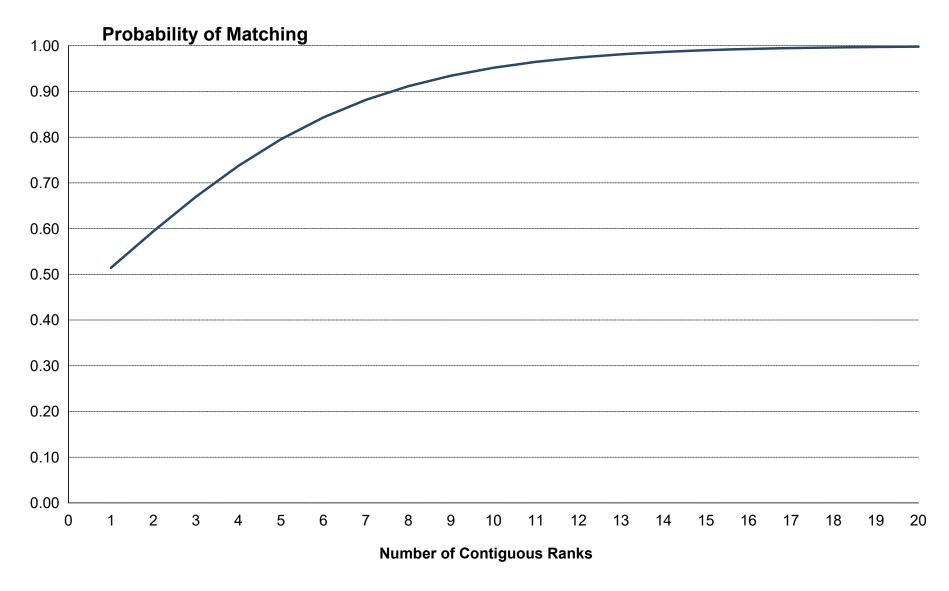Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Interventional Radiology

Contiguous Ranks

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Interventional Radiology

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Interventional Radiology

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores

	<= 180	Between 181 and 190	Between 191 and 200	Between 201 and 210	Between 211 and 220	Between 221 and 230	Between 231 and 240	Between 241 and 250	Between 251 and 260	>260	Score Unknown
Matched	0	0	1	2	5	6	17	29	32	12	2
Not Matched	0	0	0	0	2	5	7	4	5	0	0

USMLE Step 2 CK Scores of U.S. MD Seniors
Interventional Radiology

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores

	<= 180	Between 181 and 190	Between 191 and 200	Between 201 and 210	Between 211 and 220	Between 221 and 230	Between 231 and 240	Between 241 and 250	Between 251 and 260	>260	Score Unknown
Matched	0	0	0	0	2	7	13	11	35	31	7
Not Matched	0	0	0	0	0	0	4	7	7	5	0

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**
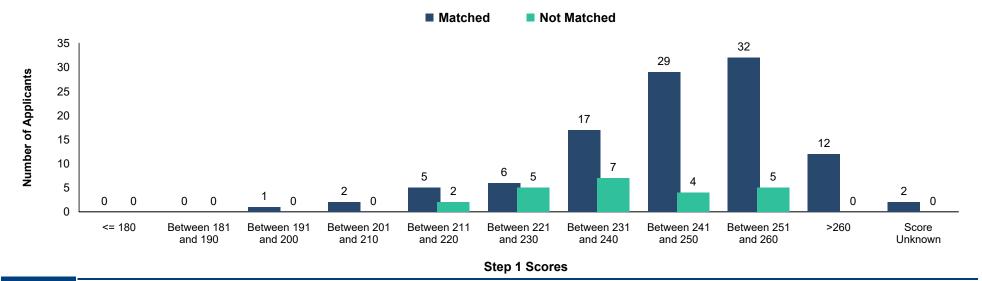
Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Interventional Radiology

Probability of Matching

Step 1 Score

Number of Research Projects of U.S. MD Seniors
Interventional Radiology

Legend: ■ Matched ■ Not Matched

X-axis: Research Projects (None, 1, 2, 3, 4, 5 or More)
Y-axis: Number of Applicants

Values:
- None: Matched 0, Not Matched 1
- 1: Matched 3, Not Matched 2
- 2: Matched 8, Not Matched 5
- 3: Matched 10, Not Matched 2
- 4: Matched 17, Not Matched 0
- 5 or More: Matched 60, Not Matched 7

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Interventional Radiology

Legend: ■ Matched ■ Not Matched

X-axis: Publications (None, 1, 2, 3, 4, 5 or More)
Y-axis: Number of Applicants

Values:
- None: Matched 2, Not Matched 1
- 1: Matched 1, Not Matched 1
- 2: Matched 3, Not Matched 2
- 3: Matched 3, Not Matched 2
- 4: Matched 6, Not Matched 3
- 5 or More: Matched 83, Not Matched 8

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Interventional Radiology

■ Matched ■ Not Matched

Number of Applicants (y-axis)
Work Experiences (x-axis)

Work Experiences	Matched	Not Matched
None	2	0
1	12	1
2	18	4
3	23	3
4	14	3
5 or More	28	6

Number of Volunteer Experiences of U.S. MD Seniors
Interventional Radiology

■ Matched ■ Not Matched

Number of Applicants (y-axis)
Volunteer Experiences (x-axis)

Volunteer Experiences	Matched	Not Matched
None	0	0
1	1	0
2	6	1
3	0	1
4	14	2
5	9	2
6	12	1
7	15	1
8	11	2
9	2	2
10 or More	28	5

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Interventional Radiology

■ **Matched**　　■ **Not Matched**

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

NS | Neurological Surgery

| Table NS-1 | **Summary Statistics on U.S. MD Seniors**
Neurological Surgery |

Measure	Matched (n=174)	Unmatched (n=55)
1. Mean number of contiguous ranks	18.7	7.0
2. Mean number of distinct specialties ranked	1.0	1.5
3. Mean USMLE Step 1 score	248	238
4. Mean USMLE Step 2 score	252	246
5. Mean number of research experiences	6.6	5.9
6. Mean number of abstracts, presentations, and publications	25.5	11.7
7. Mean number of work experiences	3.6	4.1
8. Mean number of volunteer experiences	7.6	7.0
9. Percentage who are AOA members	28.7	3.6
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	42.5	16.4
11. Percentage who have Ph.D. degree	11.4	7.8
12. Percentage who have another graduate degree	22.6	23.5

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

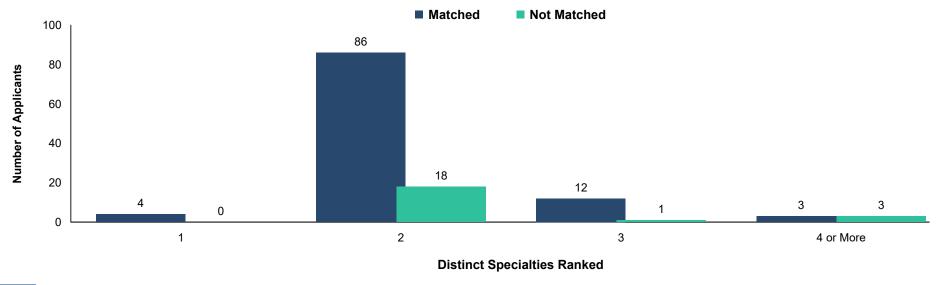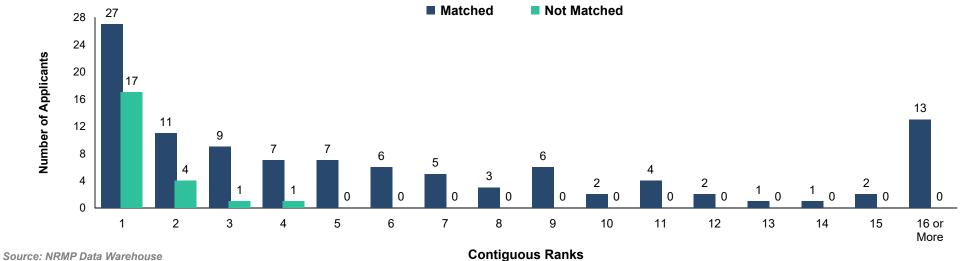## Number of Distinct Specialties Ranked by U.S. MD Seniors
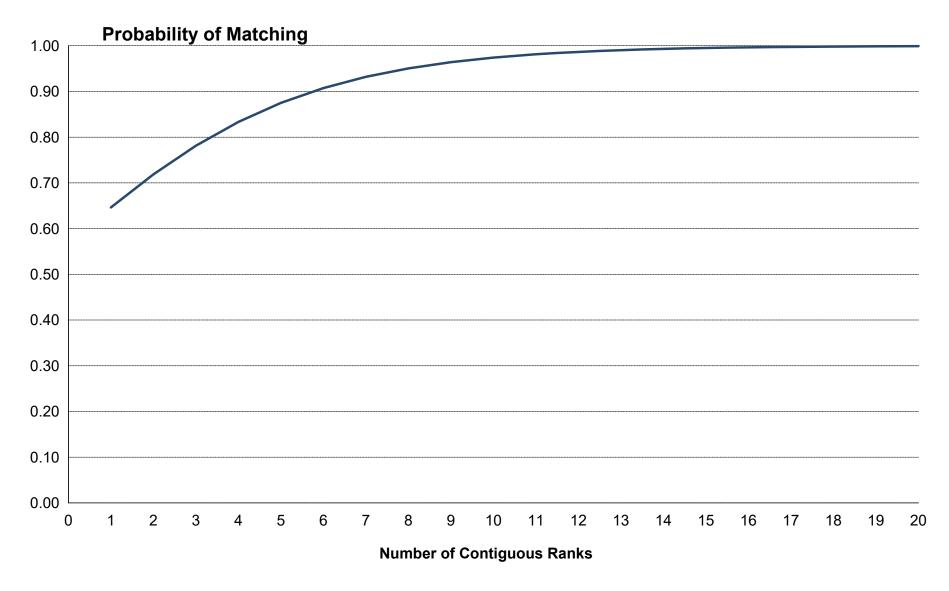*Neurological Surgery*

Chart NS-1: Number of Distinct Specialties Ranked by U.S. MD Seniors — Neurological Surgery. Bar chart of Number of Applicants (y-axis, 0–180) versus Distinct Specialties Ranked (x-axis), comparing Matched (dark blue) and Not Matched (green). Values: 1 — Matched 170, Not Matched 32; 2 — Matched 4, Not Matched 21; 3 — Matched 0, Not Matched 1; 4 or More — Matched 0, Not Matched 1.

Number of Contiguous Ranks of U.S. MD Seniors
Neurological Surgery

Chart NS-2: Number of Contiguous Ranks of U.S. MD Seniors — Neurological Surgery. Bar chart of Number of Applicants (y-axis, 0–140) versus Contiguous Ranks (x-axis), comparing Matched (dark blue) and Not Matched (green). Values (Matched, Not Matched): 1 — 0, 4; 2 — 1, 3; 3 — 1, 11; 4 — 0, 2; 5 — 4, 2; 6 — 4, 9; 7 — 5, 3; 8 — 5, 4; 9 — 3, 3; 10 — 5, 1; 11 — 7, 3; 12 — 1, 2; 13 — 5, 1; 14 — 6, 3; 15 — 6, 1; 16 or More — 121, 3.

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Neurological Surgery

Probability of Matching

Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants

Chart NS-3
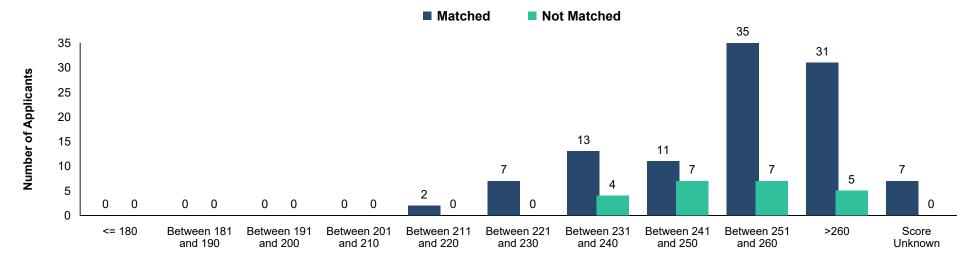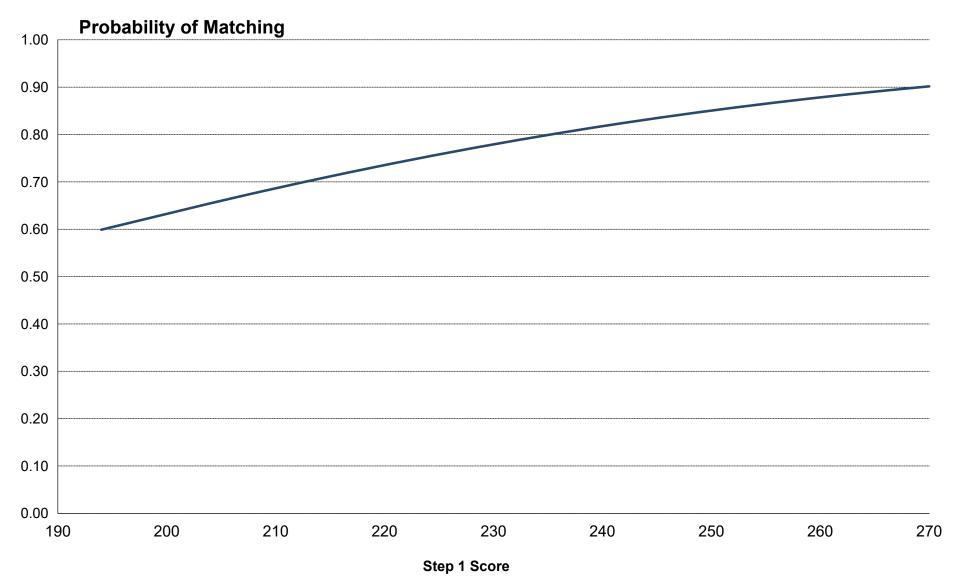
USMLE Step 1 Scores of U.S. MD Seniors
Neurological Surgery

Matched ■ Not Matched ■

Number of Applicants (y-axis: 0, 10, 20, 30, 40, 50, 60)

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	1
Between 211 and 220	3	7
Between 221 and 230	10	5
Between 231 and 240	29	16
Between 241 and 250	54	18
Between 251 and 260	55	3
>260	22	4
Score Unknown	1	1

Chart NS-4

USMLE Step 2 CK Scores of U.S. MD Seniors
Neurological Surgery

Matched ■ Not Matched ■

Number of Applicants (y-axis: 0, 10, 20, 30, 40, 50, 60)

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	1	1
Between 221 and 230	10	9
Between 231 and 240	21	10
Between 241 and 250	30	12
Between 251 and 260	53	7
>260	44	11
Score Unknown	15	5

Charting Outcomes in the Match: U.S. MD Seniors, 2022

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

Probability of Matching

Step 1 Score

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Research Projects of U.S. MD Seniors
Neurological Surgery

■ Matched   ■ Not Matched

Number of Applicants (y-axis)

Research Projects (x-axis): None, 1, 2, 3, 4, 5 or More

Research Projects	Matched	Not Matched
None	0	0
1	1	3
2	4	2
3	15	5
4	25	9
5 or More	110	22

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Neurological Surgery

■ Matched   ■ Not Matched

Number of Applicants (y-axis)

Publications (x-axis): None, 1, 2, 3, 4, 5 or More

Publications	Matched	Not Matched
None	0	0
1	1	3
2	1	3
3	1	3
4	3	0
5 or More	147	32

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Neurological Surgery

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants
X-axis: Work Experiences

Work Experiences	Matched	Not Matched
None	7	5
1	11	1
2	35	6
3	38	13
4	23	3
5 or More	40	14

Number of Volunteer Experiences of U.S. MD Seniors
Neurological Surgery

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants
X-axis: Volunteer Experiences

Volunteer Experiences	Matched	Not Matched
None	0	1
1	2	0
2	6	6
3	13	5
4	14	2
5	15	6
6	17	5
7	23	1
8	16	3
9	11	1
10 or More	37	11

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Neurological Surgery

■ **Matched**   ■ **Not Matched**

AOA Membership

Yes	Matched: 50, Not Matched: 2
No	Matched: 105, Not Matched: 49

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

Yes	Matched: 74, Not Matched: 9
No	Matched: 100, Not Matched: 46

Ph.D. Degree

Yes	Matched: 19, Not Matched: 4
No	Matched: 148, Not Matched: 47

Other Graduate Degree

Yes	Matched: 38, Not Matched: 12
No	Matched: 130, Not Matched: 39

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

N Neurology

Summary Statistics on U.S. MD Seniors
Neurology

Measure	Matched (n=465)	Unmatched (n=8)
1. Mean number of contiguous ranks	14.5	5.5
2. Mean number of distinct specialties ranked	1.1	1.5
3. Mean USMLE Step 1 score	233	217
4. Mean USMLE Step 2 score	246	229
5. Mean number of research experiences	3.9	3.8
6. Mean number of abstracts, presentations, and publications	7.8	7.6
7. Mean number of work experiences	3.2	4.8
8. Mean number of volunteer experiences	7.5	6.0
9. Percentage who are AOA members	11.4	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	30.5	37.5
11. Percentage who have Ph.D. degree	9.4	0.0
12. Percentage who have another graduate degree	13.9	37.5

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

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Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Distinct Specialties Ranked by U.S. MD Seniors
Neurology

■ Matched   ■ Not Matched

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Neurology

■ Matched   ■ Not Matched

Contiguous Ranks

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

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

Probability of Matching

Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart N-3

USMLE Step 1 Scores of U.S. MD Seniors
Neurology

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	6	1
Between 201 and 210	26	2
Between 211 and 220	66	3
Between 221 and 230	106	0
Between 231 and 240	95	1
Between 241 and 250	86	1
Between 251 and 260	54	0
>260	15	0
Score Unknown	11	0

Step 1 Scores

Chart N-4

USMLE Step 2 CK Scores of U.S. MD Seniors
Neurology

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	2	0
Between 211 and 220	25	3
Between 221 and 230	44	2
Between 231 and 240	80	2
Between 241 and 250	123	0
Between 251 and 260	99	1
>260	73	0
Score Unknown	19	0

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

Probability of Matching

Step 1 Score

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Neurology

■ **Matched**　■ **Not Matched**

Number of Applicants (y-axis)
Research Projects (x-axis)

Research Projects	Matched	Not Matched
None	13	0
1	25	1
2	68	1
3	94	1
4	92	3
5 or More	126	2

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Neurology

■ **Matched**　■ **Not Matched**

Number of Applicants (y-axis)
Publications (x-axis)

Publications	Matched	Not Matched
None	24	0
1	28	0
2	37	1
3	45	2
4	46	1
5 or More	238	4

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Neurology

■ Matched ■ Not Matched

Work Experiences

Work Experiences	Matched	Not Matched
None	19	0
1	54	1
2	97	1
3	106	2
4	50	1
5 or More	92	3

Number of Volunteer Experiences of U.S. MD Seniors
Neurology

■ Matched ■ Not Matched

Volunteer Experiences

Volunteer Experiences	Matched	Not Matched
None	4	0
1	4	0
2	20	2
3	34	1
4	45	2
5	50	0
6	41	1
7	34	0
8	47	0
9	28	1
10 or More	111	1

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Neurology

■ **Matched**   ■ **Not Matched**

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Summary Statistics on U.S. MD Seniors
Obstetrics and Gynecology

Measure	Matched (n=962)	Unmatched (n=184)
1. Mean number of contiguous ranks	12.7	6.8
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	234	225
4. Mean USMLE Step 2 score	249	240
5. Mean number of research experiences	4.4	3.6
6. Mean number of abstracts, presentations, and publications	6.8	5.0
7. Mean number of work experiences	3.8	3.6
8. Mean number of volunteer experiences	10.2	9.1
9. Percentage who are AOA members	22.0	4.9
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	29.5	22.8
11. Percentage who have Ph.D. degree	1.5	1.1
12. Percentage who have another graduate degree	20.3	14.5

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
Obstetrics and Gynecology
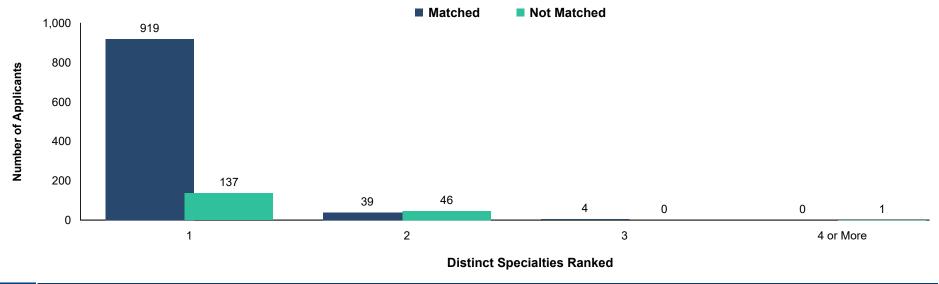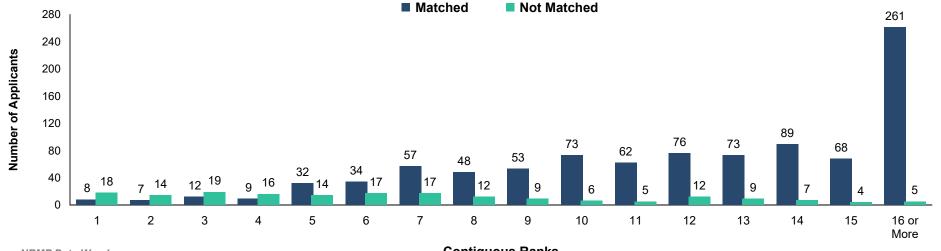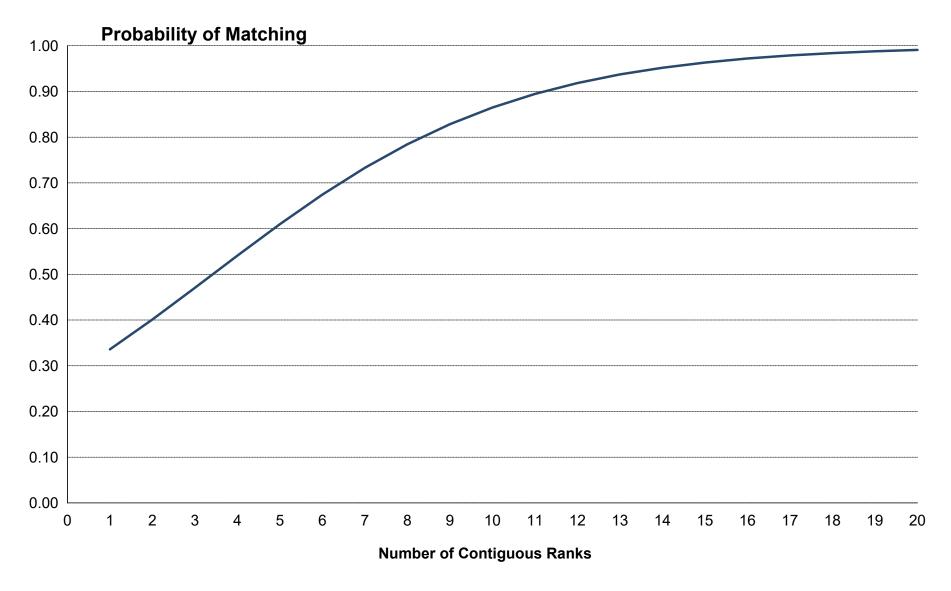
Number of Contiguous Ranks of U.S. MD Seniors
Obstetrics and Gynecology

Source: NRMP Data Warehouse

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Obstetrics and Gynecology

Probability of Matching

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Obstetrics and Gynecology

■ **Matched**   ■ **Not Matched**

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	12	9
Between 201 and 210	56	27
Between 211 and 220	124	39
Between 221 and 230	192	43
Between 231 and 240	247	37
Between 241 and 250	199	19
Between 251 and 260	113	9
>260	16	1
Score Unknown	3	0

Number of Applicants — *Step 1 Scores*

USMLE Step 2 CK Scores of U.S. MD Seniors
Obstetrics and Gynecology

■ **Matched**   ■ **Not Matched**

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	5	0
Between 211 and 220	10	19
Between 221 and 230	61	29
Between 231 and 240	174	32
Between 241 and 250	263	55
Between 251 and 260	269	36
>260	173	8
Score Unknown	7	5

Number of Applicants — *Step 2 CK Scores*

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Obstetrics and Gynecology

Probability of Matching

Step 1 Score

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Obstetrics and Gynecology

■ Matched ■ Not Matched

Number of Applicants

Research Projects	Matched	Not Matched
None	6	5
1	37	10
2	111	34
3	186	41
4	159	27
5 or More	376	45

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Obstetrics and Gynecology

■ Matched ■ Not Matched

Number of Applicants

Publications	Matched	Not Matched
None	33	17
1	73	25
2	80	27
3	89	16
4	83	11
5 or More	515	66

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Obstetrics and Gynecology

■ **Matched** ■ **Not Matched**

Number of Applicants (y-axis)
Work Experiences (x-axis)

Work Experiences	Matched	Not Matched
None	26	8
1	90	24
2	144	25
3	179	33
4	166	27
5 or More	267	46

Number of Volunteer Experiences of U.S. MD Seniors
Obstetrics and Gynecology

■ **Matched** ■ **Not Matched**

Number of Applicants (y-axis)
Volunteer Experiences (x-axis)

Volunteer Experiences	Matched	Not Matched
None	0	0
1	1	0
2	7	3
3	19	8
4	30	9
5	51	11
6	63	11
7	77	18
8	70	24
9	105	11
10 or More	448	68

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Obstetrics and Gynecology

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Summary Statistics on U.S. MD Seniors
Orthopaedic Surgery

Measure	Matched (n=574)	Unmatched (n=297)
1. Mean number of contiguous ranks	12.2	5.6
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	248	241
4. Mean USMLE Step 2 score	256	249
5. Mean number of research experiences	6.6	5.4
6. Mean number of abstracts, presentations, and publications	16.5	12.1
7. Mean number of work experiences	4.0	3.5
8. Mean number of volunteer experiences	8.9	7.5
9. Percentage who are AOA members	35.7	12.8
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	33.4	21.5
11. Percentage who have Ph.D. degree	1.5	1.1
12. Percentage who have another graduate degree	15.3	20.0

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
Orthopaedic Surgery
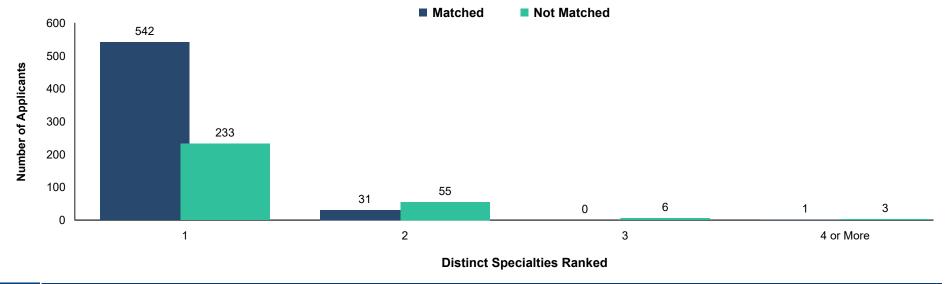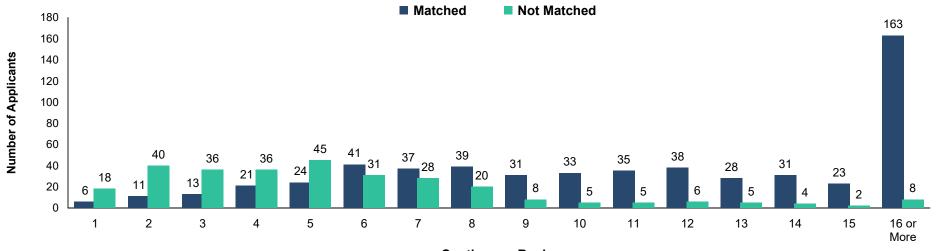
■ Matched ■ Not Matched

Number of Applicants

Distinct Specialties Ranked	Matched	Not Matched
1	542	233
2	31	55
3	0	6
4 or More	1	3

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Orthopaedic Surgery

■ Matched ■ Not Matched

Number of Applicants

Contiguous Ranks	Matched	Not Matched
1	6	18
2	11	40
3	13	36
4	21	36
5	24	45
6	41	31
7	37	28
8	39	20
9	31	8
10	33	5
11	35	5
12	38	6
13	28	5
14	31	4
15	23	2
16 or More	163	8

Contiguous Ranks

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022
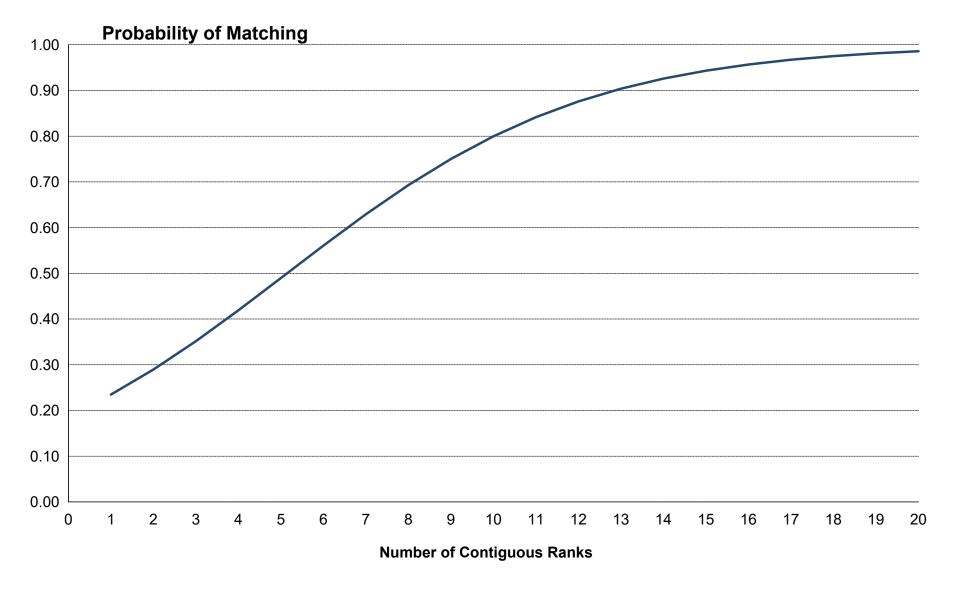
Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Orthopaedic Surgery

Probability of Matching

Number of Contiguous Ranks

USMLE Step 1 Scores of U.S. MD Seniors
Orthopaedic Surgery

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	1	2
Between 201 and 210	3	7
Between 211 and 220	11	15
Between 221 and 230	32	34
Between 231 and 240	73	58
Between 241 and 250	200	103
Between 251 and 260	186	63
>260	64	15
Score Unknown	4	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Orthopaedic Surgery

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	4	8
Between 221 and 230	8	23
Between 231 and 240	38	38
Between 241 and 250	97	68
Between 251 and 260	208	105
>260	207	51
Score Unknown	12	4

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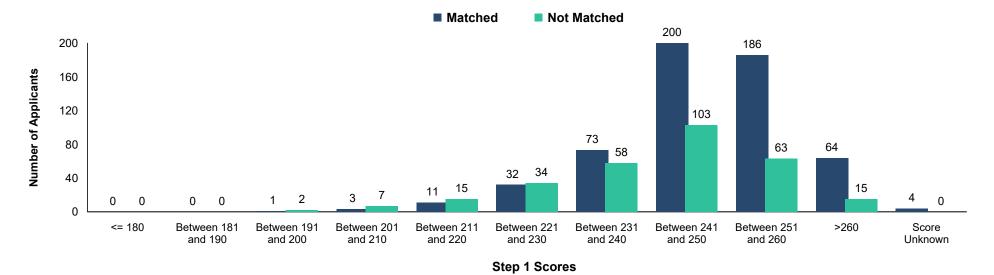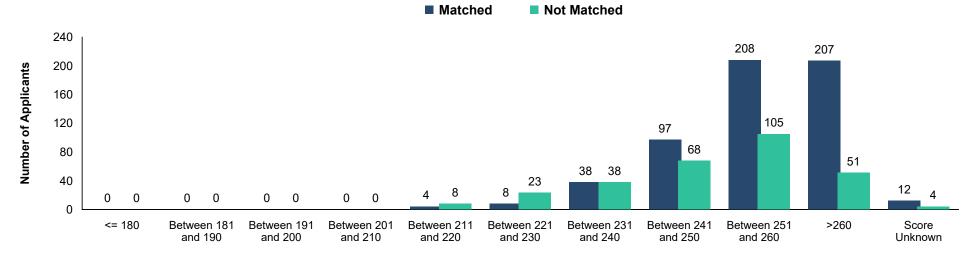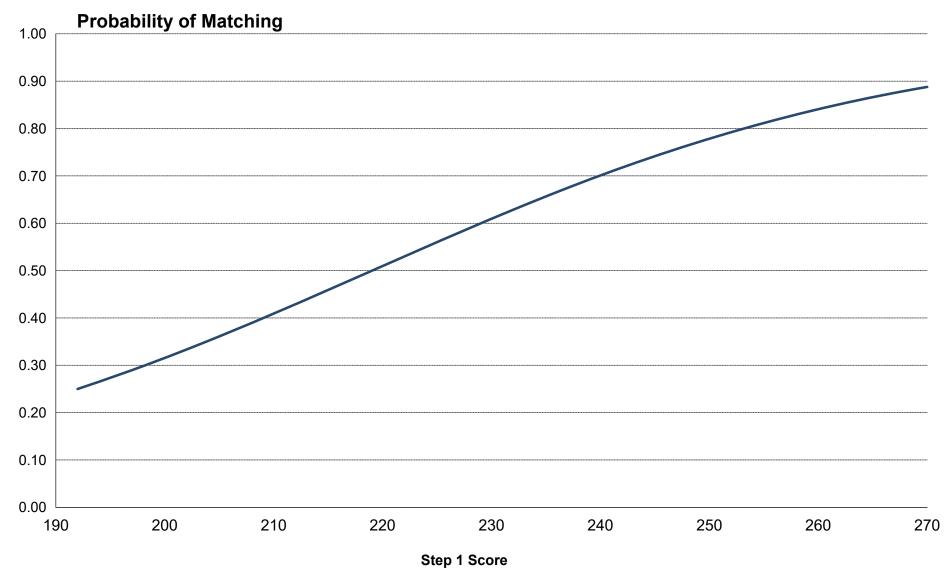
Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Orthopaedic Surgery

Probability of Matching

Step 1 Score

Chart ORS-5

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

■ Matched ■ Not Matched

Y-axis: Number of Applicants

X-axis: Research Projects

Research Projects	Matched	Not Matched
None	0	0
1	4	9
2	21	27
3	70	40
4	102	50
5 or More	319	135
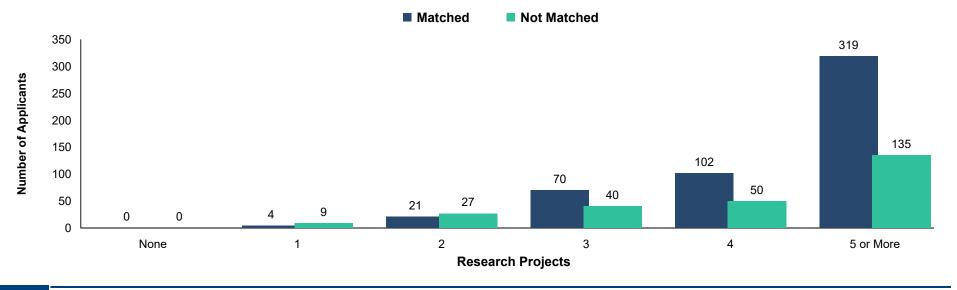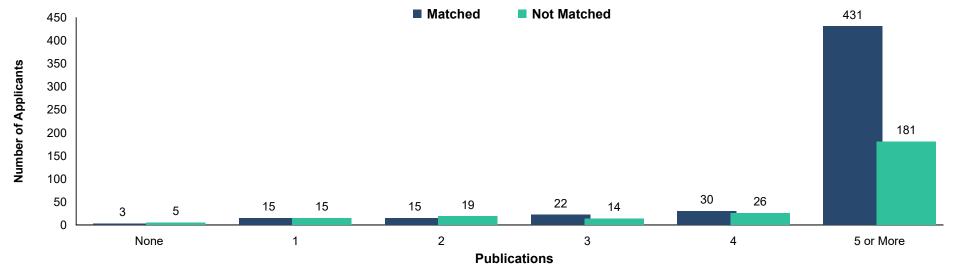
Chart ORS-6

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

■ Matched ■ Not Matched

Y-axis: Number of Applicants

X-axis: Publications

Publications	Matched	Not Matched
None	3	5
1	15	15
2	15	19
3	22	14
4	30	26
5 or More	431	181

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Orthopaedic Surgery

■ **Matched** ■ **Not Matched**

Number of Applicants

	None	1	2	3	4	5 or More
Matched	9	47	90	119	73	173
Not Matched	15	31	44	58	41	71

Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Orthopaedic Surgery

■ **Matched** ■ **Not Matched**

Number of Applicants

	None	1	2	3	4	5	6	7	8	9	10 or More
Matched	1	2	8	23	32	40	49	65	52	53	187
Not Matched	1	5	11	19	23	31	33	24	32	14	65

Volunteer Experiences

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Orthopaedic Surgery

■ **Matched**   ■ **Not Matched**

AOA Membership

Number of Applicants

- Yes: Matched 205, Not Matched 38
- No: Matched 314, Not Matched 235

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

Number of Applicants

- Yes: Matched 192, Not Matched 64
- No: Matched 382, Not Matched 233

Ph.D. Degree

Number of Applicants

- Yes: Matched 8, Not Matched 3
- No: Matched 535, Not Matched 277

Other Graduate Degree

Number of Applicants

- Yes: Matched 82, Not Matched 56
- No: Matched 455, Not Matched 224

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

OTO **Otolaryngology**

Summary Statistics on U.S. MD Seniors
Otolaryngology

Measure	Matched (n=266)	Unmatched (n=112)
1. Mean number of contiguous ranks	13.9	5.9
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	250	243
4. Mean USMLE Step 2 score	257	250
5. Mean number of research experiences	7.3	6.5
6. Mean number of abstracts, presentations, and publications	17.2	11.0
7. Mean number of work experiences	4.0	3.5
8. Mean number of volunteer experiences	9.2	8.2
9. Percentage who are AOA members	41.0	18.8
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	39.1	25.0
11. Percentage who have Ph.D. degree	3.6	0.0
12. Percentage who have another graduate degree	18.4	18.1

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Chart OTO-1

Number of Distinct Specialties Ranked by U.S. MD Seniors
Otolaryngology

Matched   **Not Matched**

Number of Applicants (y-axis)
Distinct Specialties Ranked (x-axis)

Distinct Specialties Ranked	Matched	Not Matched
1	234	83
2	30	26
3	2	1
4 or More	0	2
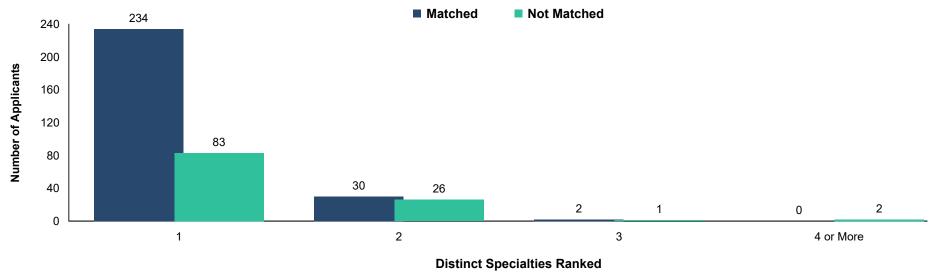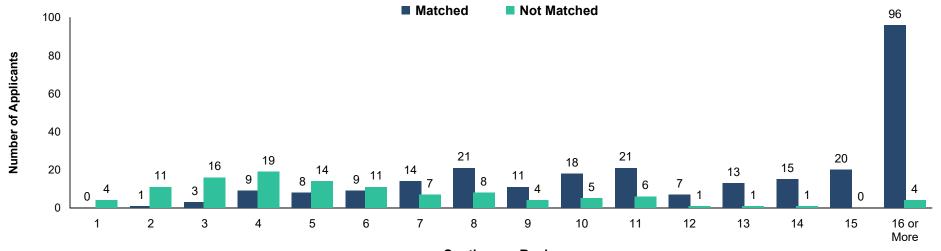
Chart OTO-2

Number of Contiguous Ranks of U.S. MD Seniors
Otolaryngology

Matched   **Not Matched**

Number of Applicants (y-axis)
Contiguous Ranks (x-axis)

Contiguous Ranks	Matched	Not Matched
1	0	4
2	1	11
3	3	16
4	9	19
5	8	14
6	9	11
7	14	7
8	21	8
9	11	4
10	18	5
11	21	6
12	7	1
13	13	1
14	15	1
15	20	0
16 or More	96	4

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

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

Probability of Matching

Number of Contiguous Ranks

USMLE Step 1 Scores of U.S. MD Seniors
Otolaryngology

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	1
Between 201 and 210	1	5
Between 211 and 220	2	2
Between 221 and 230	9	8
Between 231 and 240	31	22
Between 241 and 250	91	37
Between 251 and 260	83	31
>260	48	6
Score Unknown	1	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Otolaryngology

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	0	2
Between 221 and 230	2	3
Between 231 and 240	14	15
Between 241 and 250	50	32
Between 251 and 260	82	34
>260	105	24
Score Unknown	13	2

Step 2 CK Scores
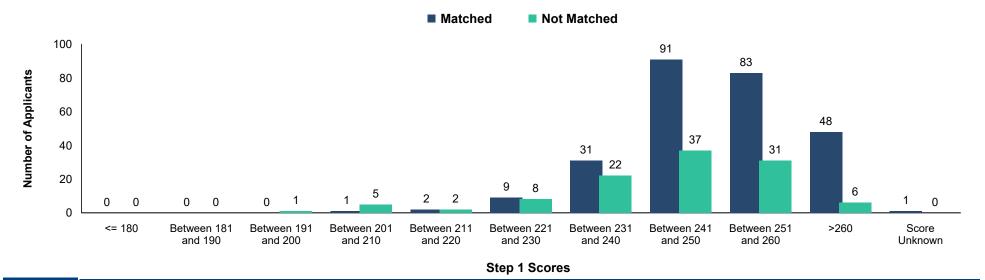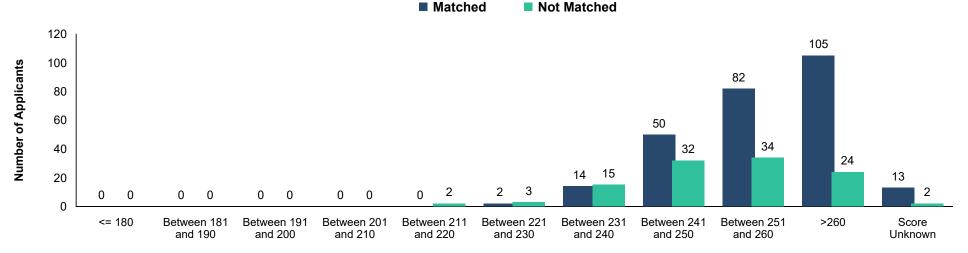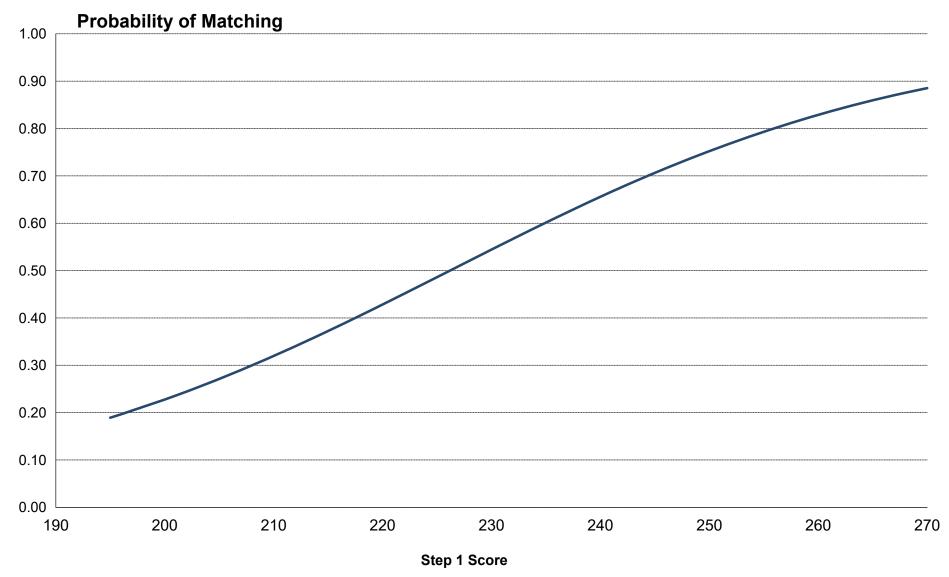
Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Otolaryngology

Probability of Matching

Step 1 Score

Number of Research Projects of U.S. MD Seniors
Otolaryngology

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Research Projects	Matched	Not Matched
None	1	0
1	1	0
2	3	2
3	21	13
4	17	16
5 or More	186	72

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Otolaryngology

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Publications	Matched	Not Matched
None	0	1
1	0	2
2	3	5
3	6	4
4	5	6
5 or More	215	85

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Otolaryngology

■ **Matched**　■ **Not Matched**

Y-axis: **Number of Applicants** (0–80)

X-axis: **Work Experiences**

Work Experiences	Matched	Not Matched
None	1	3
1	18	15
2	32	23
3	62	19
4	43	19
5 or More	71	23

Number of Volunteer Experiences of U.S. MD Seniors
Otolaryngology

■ **Matched**　■ **Not Matched**

Y-axis: **Number of Applicants** (0–100)

X-axis: **Volunteer Experiences**

Volunteer Experiences	Matched	Not Matched
None	0	0
1	0	1
2	3	1
3	11	6
4	9	9
5	12	11
6	27	5
7	27	14
8	25	17
9	19	6
10 or More	94	32

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Otolaryngology

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

PTH **Pathology**

Summary Statistics on U.S. MD Seniors
Pathology

Measure	Matched (n=181)	Unmatched (n=3)
1. Mean number of contiguous ranks	12.6	3.0
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	233	226
4. Mean USMLE Step 2 score	245	232
5. Mean number of research experiences	3.4	3.0
6. Mean number of abstracts, presentations, and publications	8.5	1.7
7. Mean number of work experiences	3.2	2.3
8. Mean number of volunteer experiences	6.0	5.3
9. Percentage who are AOA members	11.0	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	30.9	0.0
11. Percentage who have Ph.D. degree	22.3	0.0
12. Percentage who have another graduate degree	17.2	33.3

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Chart PTH-1

Number of Distinct Specialties Ranked by U.S. MD Seniors
Pathology

■ Matched   ■ Not Matched

Number of Applicants (y-axis: 0 to 180)

Distinct Specialties Ranked	Matched	Not Matched
1	169	2
2	11	1
3	1	0
4 or More	0	0

Distinct Specialties Ranked

Chart PTH-2

Number of Contiguous Ranks of U.S. MD Seniors
Pathology

■ Matched   ■ Not Matched

Number of Applicants (y-axis: 0 to 60)

Contiguous Ranks	Matched	Not Matched
1	3	0
2	5	1
3	8	1
4	5	1
5	1	0
6	5	0
7	7	0
8	9	0
9	11	0
10	11	0
11	12	0
12	11	0
13	8	0
14	10	0
15	16	0
16 or More	59	0

Contiguous Ranks

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

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

Probability of Matching

Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants

USMLE Step 1 Scores of U.S. MD Seniors
Pathology

■ Matched   ■ Not Matched

Number of Applicants

	<= 180	Between 181 and 190	Between 191 and 200	Between 201 and 210	Between 211 and 220	Between 221 and 230	Between 231 and 240	Between 241 and 250	Between 251 and 260	>260	Score Unknown
Matched	0	0	4	17	22	27	42	37	25	5	2
Not Matched	0	0	0	0	1	1	1	0	0	0	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Pathology

■ Matched   ■ Not Matched

Number of Applicants

	<= 180	Between 181 and 190	Between 191 and 200	Between 201 and 210	Between 211 and 220	Between 221 and 230	Between 231 and 240	Between 241 and 250	Between 251 and 260	>260	Score Unknown
Matched	0	0	0	1	8	22	35	36	47	27	5
Not Matched	0	0	0	0	0	1	1	0	0	0	1

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

Probability of Matching

Step 1 Score

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Research Projects of U.S. MD Seniors

Pathology

■ Matched ■ Not Matched

Research Projects

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

Pathology

■ Matched ■ Not Matched

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Pathology

■ Matched ■ Not Matched

Number of Applicants

Work Experiences	Matched	Not Matched
None	13	1
1	29	1
2	25	0
3	35	0
4	25	0
5 or More	40	1

Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Pathology

■ Matched ■ Not Matched

Number of Applicants

Volunteer Experiences	Matched	Not Matched
None	6	0
1	7	1
2	13	0
3	13	0
4	22	0
5	22	1
6	21	0
7	16	0
8	13	0
9	12	0
10 or More	22	1

Volunteer Experiences

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Pathology

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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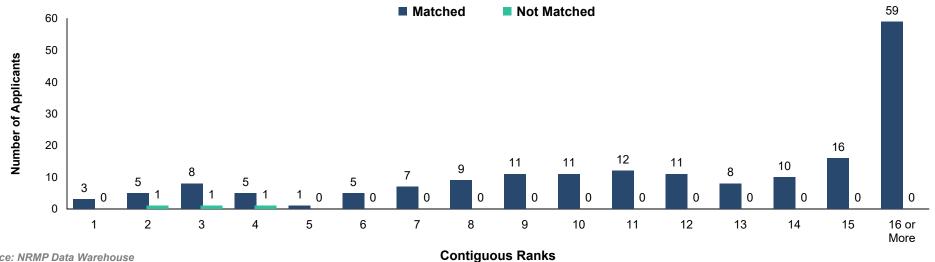
PD Pediatrics

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Summary Statistics on U.S. MD Seniors
Pediatrics

Measure	Matched (n=1,408)	Unmatched (n=21)
1. Mean number of contiguous ranks	14.6	4.1
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	230	209
4. Mean USMLE Step 2 score	245	230
5. Mean number of research experiences	3.2	2.4
6. Mean number of abstracts, presentations, and publications	5.6	5.9
7. Mean number of work experiences	3.4	2.7
8. Mean number of volunteer experiences	9.3	7.0
9. Percentage who are AOA members	13.4	4.8
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	28.2	19.0
11. Percentage who have Ph.D. degree	3.5	5.6
12. Percentage who have another graduate degree	15.9	38.9

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

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

Chart PD-1

Number of Distinct Specialties Ranked by U.S. MD Seniors
Pediatrics

Matched ■   Not Matched ■

Y-axis: Number of Applicants

Distinct Specialties Ranked	Matched	Not Matched
1	1,372	14
2	30	7
3	5	0
4 or More	1	0

X-axis: Distinct Specialties Ranked
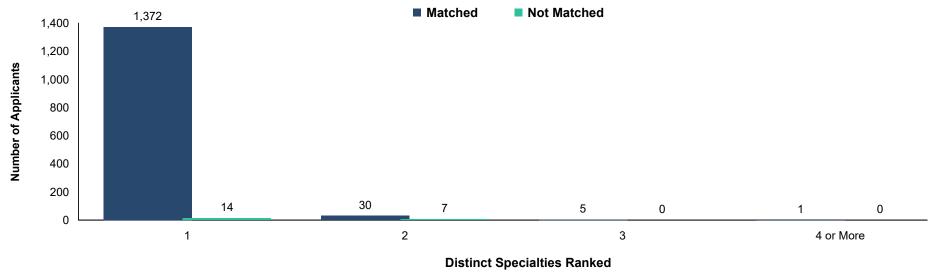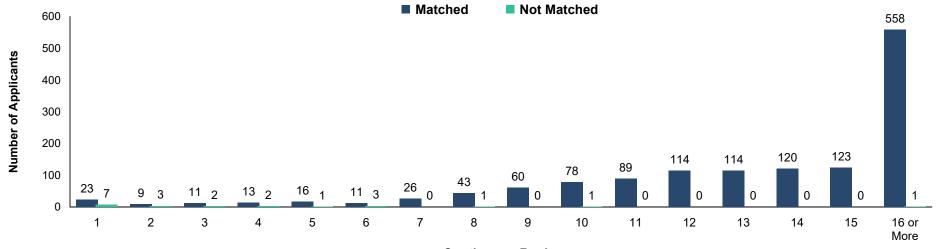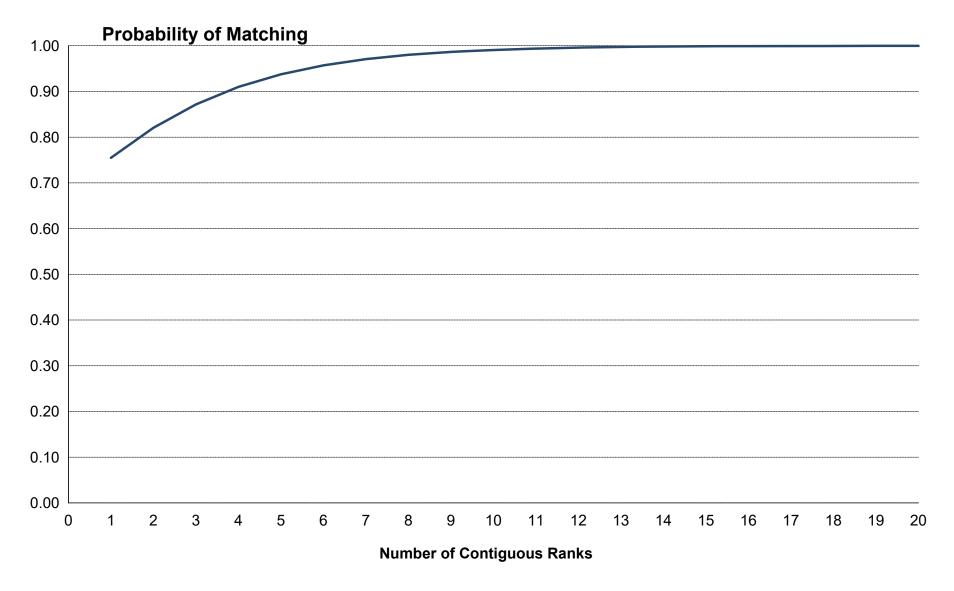
Chart PD-2

Number of Contiguous Ranks of U.S. MD Seniors
Pediatrics

Matched ■   Not Matched ■

Y-axis: Number of Applicants

Contiguous Ranks	Matched	Not Matched
1	23	7
2	9	3
3	11	2
4	13	2
5	16	1
6	11	3
7	26	0
8	43	1
9	60	0
10	78	1
11	89	0
12	114	0
13	114	0
14	120	0
15	123	0
16 or More	558	1

X-axis: Contiguous Ranks

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

Probability of Matching

Number of Contiguous Ranks

165

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart PD-3

USMLE Step 1 Scores of U.S. MD Seniors
Pediatrics

Legend: ■ Matched   ■ Not Matched

Number of Applicants (y-axis)

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	61	7
Between 201 and 210	136	9
Between 211 and 220	219	2
Between 221 and 230	279	1
Between 231 and 240	274	0
Between 241 and 250	257	1
Between 251 and 260	136	1
>260	31	0
Score Unknown	15	0
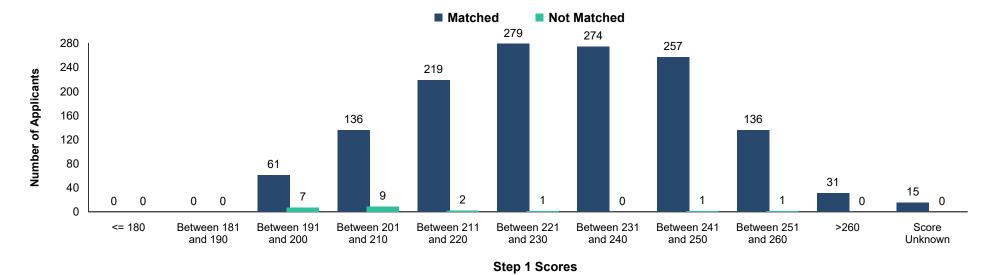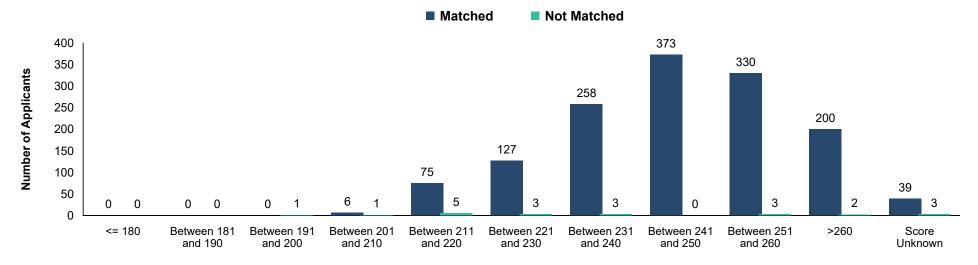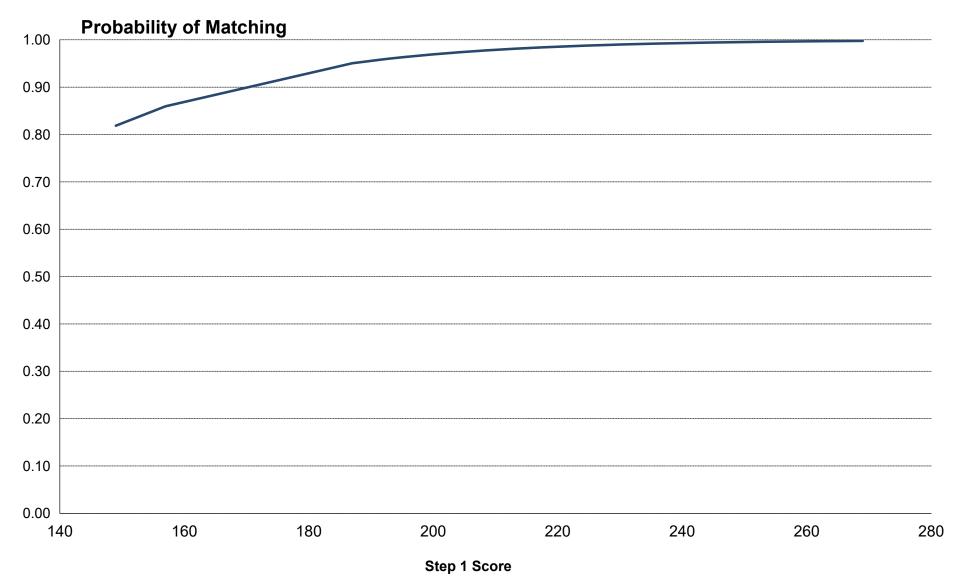
Chart PD-4

USMLE Step 2 CK Scores of U.S. MD Seniors
Pediatrics

Legend: ■ Matched   ■ Not Matched

Number of Applicants (y-axis)

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	1
Between 201 and 210	6	1
Between 211 and 220	75	5
Between 221 and 230	127	3
Between 231 and 240	258	3
Between 241 and 250	373	0
Between 251 and 260	330	3
>260	200	2
Score Unknown	39	3

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

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

Probability of Matching

Step 1 Score

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Pediatrics

■ **Matched**　■ **Not Matched**

Number of Applicants (y-axis)
Research Projects (x-axis)

Research Projects	Matched	Not Matched
None	42	2
1	172	4
2	272	3
3	303	2
4	188	1
5 or More	268	3

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Pediatrics

■ **Matched**　■ **Not Matched**

Number of Applicants (y-axis)
Publications (x-axis)

Publications	Matched	Not Matched
None	127	6
1	151	0
2	153	3
3	155	3
4	121	0
5 or More	535	3

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Pediatrics

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis, 0 to 350)

Work Experiences (x-axis)

Work Experiences	Matched	Not Matched
None	44	2
1	185	4
2	242	3
3	230	1
4	221	2
5 or More	316	3

Number of Volunteer Experiences of U.S. MD Seniors
Pediatrics

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis, 0 to 600)

Volunteer Experiences (x-axis)

Volunteer Experiences	Matched	Not Matched
None	3	0
1	8	1
2	17	1
3	40	1
4	61	2
5	95	2
6	117	2
7	123	2
8	131	0
9	128	0
10 or More	518	3

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Pediatrics

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match:
U.S. MD Seniors, 2022
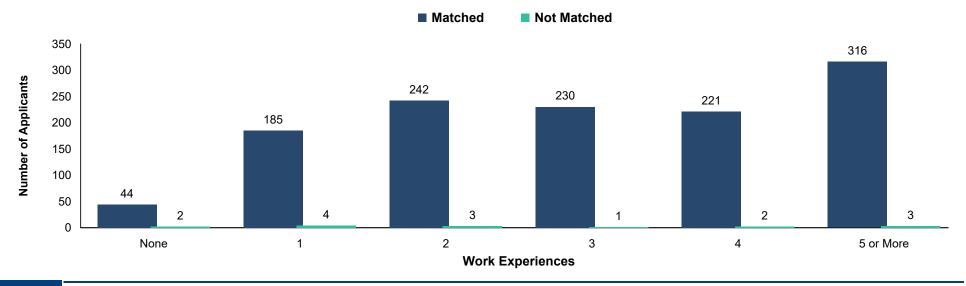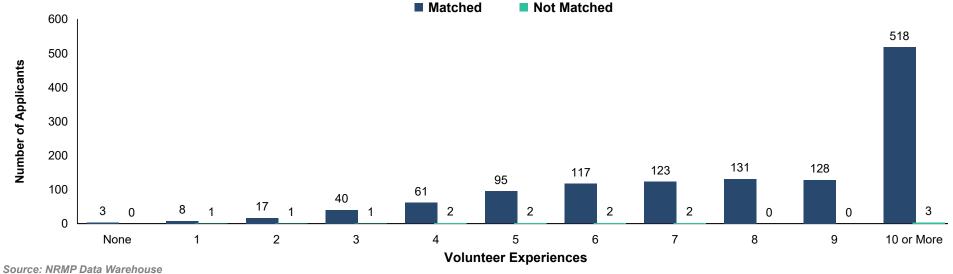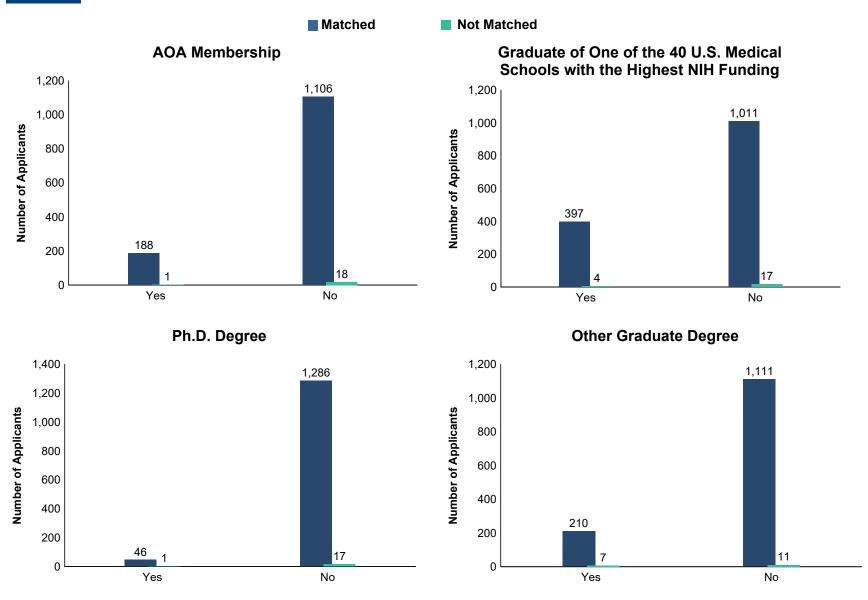
PM | Physical Medicine and Rehabilitation

Table PM-1

Summary Statistics on U.S. MD Seniors
Physical Medicine and Rehabilitation

Measure	Matched (n=213)	Unmatched (n=34)
1. Mean number of contiguous ranks	14.5	6.3
2. Mean number of distinct specialties ranked	1.5	1.8
3. Mean USMLE Step 1 score	230	220
4. Mean USMLE Step 2 score	242	233
5. Mean number of research experiences	3.6	3.0
6. Mean number of abstracts, presentations, and publications	6.2	3.9
7. Mean number of work experiences	3.6	3.5
8. Mean number of volunteer experiences	8.9	8.0
9. Percentage who are AOA members	7.5	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	25.8	2.9
11. Percentage who have Ph.D. degree	1.5	0.0
12. Percentage who have another graduate degree	17.3	28.1

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Chart PM-1

Number of Distinct Specialties Ranked by U.S. MD Seniors
Physical Medicine and Rehabilitation

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants
X-axis: Distinct Specialties Ranked

Distinct Specialties Ranked	Matched	Not Matched
1	148	17
2	34	7
3	30	10
4 or More	1	0
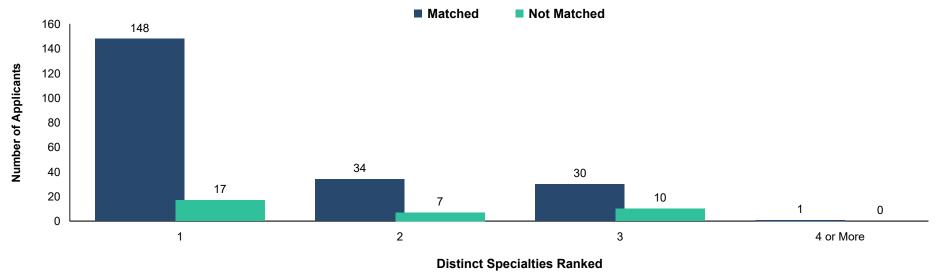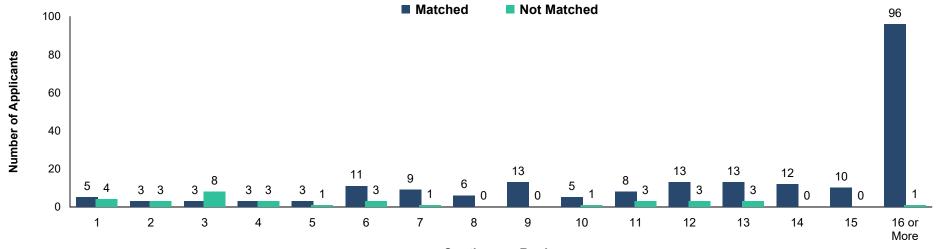
Chart PM-2

Number of Contiguous Ranks of U.S. MD Seniors
Physical Medicine and Rehabilitation
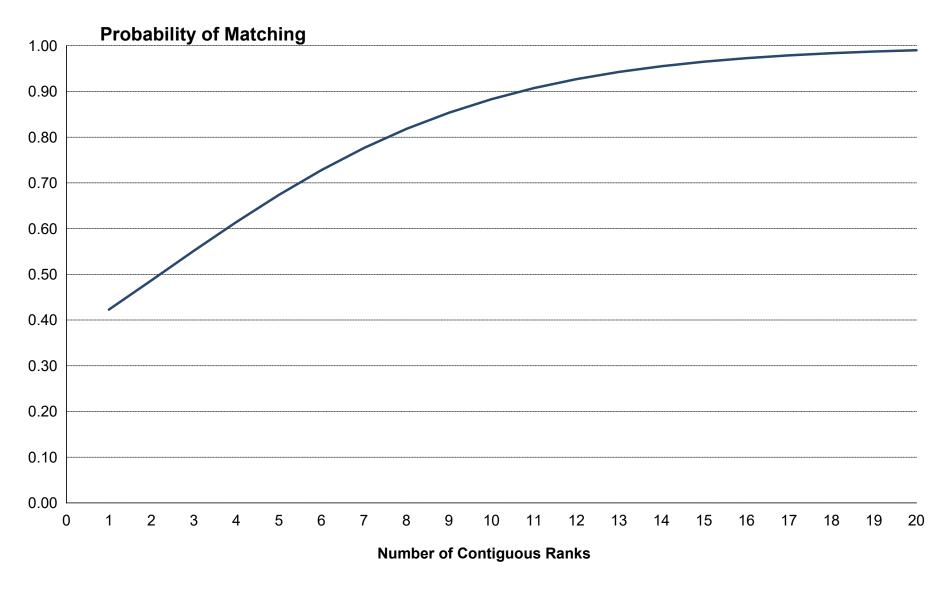
Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants
X-axis: Contiguous Ranks

Contiguous Ranks	Matched	Not Matched
1	5	4
2	3	3
3	3	8
4	3	3
5	3	1
6	11	3
7	9	1
8	6	0
9	13	0
10	5	1
11	8	3
12	13	3
13	13	3
14	12	0
15	10	0
16 or More	96	1

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Physical Medicine and Rehabilitation

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Physical Medicine and Rehabilitation

■ Matched   ■ Not Matched

Number of Applicants (y-axis)

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	6	4
Between 201 and 210	14	5
Between 211 and 220	40	8
Between 221 and 230	48	8
Between 231 and 240	57	4
Between 241 and 250	29	2
Between 251 and 260	15	2
>260	2	0
Score Unknown	2	1

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Physical Medicine and Rehabilitation

■ Matched   ■ Not Matched

Number of Applicants (y-axis)

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	1	1
Between 211 and 220	4	6
Between 221 and 230	37	6
Between 231 and 240	55	8
Between 241 and 250	48	8
Between 251 and 260	44	1
>260	18	1
Score Unknown	6	3

Step 2 CK Scores
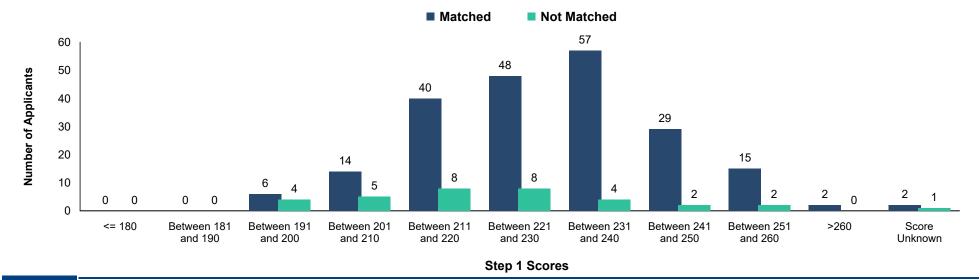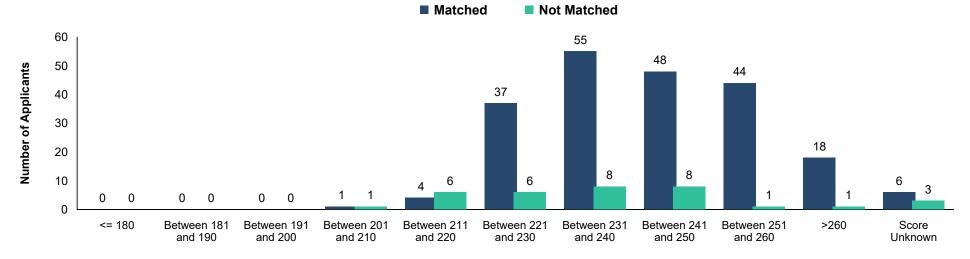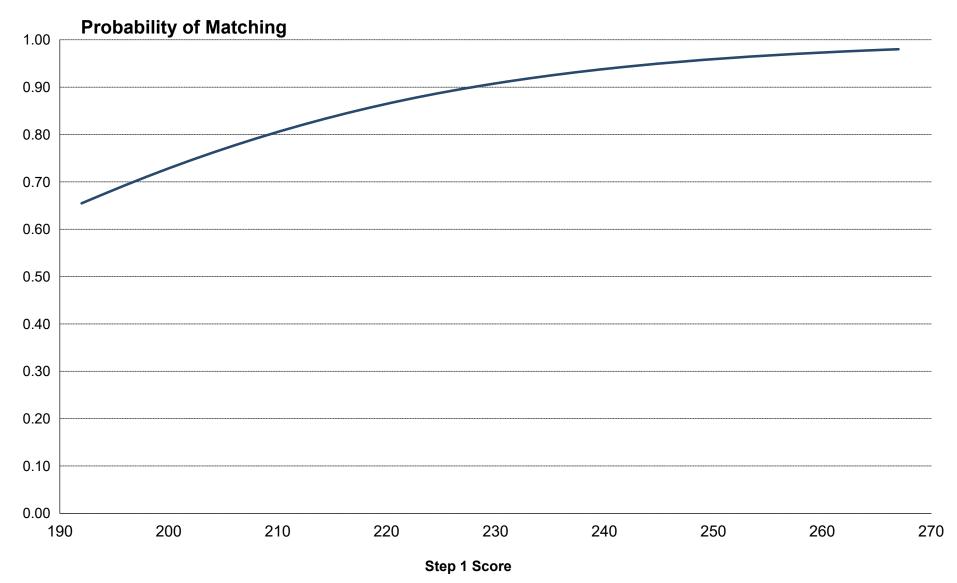
Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Physical Medicine and Rehabilitation

Probability of Matching

Step 1 Score

Chart PM-5

Number of Research Projects of U.S. MD Seniors
Physical Medicine and Rehabilitation

Legend: ■ Matched ■ Not Matched

X-axis (Research Projects): None, 1, 2, 3, 4, 5 or More
Y-axis: Number of Applicants

Research Projects	Matched	Not Matched
None	4	1
1	26	5
2	32	10
3	44	7
4	29	1
5 or More	52	5
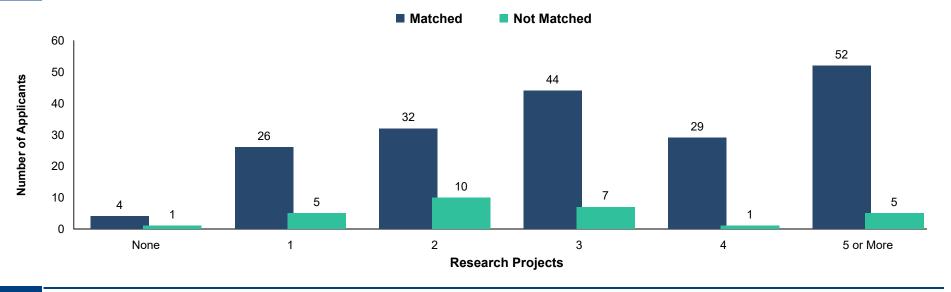
Chart PM-6

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Physical Medicine and Rehabilitation

Legend: ■ Matched ■ Not Matched

X-axis (Publications): None, 1, 2, 3, 4, 5 or More
Y-axis: Number of Applicants

Publications	Matched	Not Matched
None	11	2
1	19	7
2	21	5
3	23	9
4	18	0
5 or More	94	5

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Physical Medicine and Rehabilitation

■ **Matched** ■ **Not Matched**

X-axis: **Work Experiences** (None, 1, 2, 3, 4, 5 or More)
Y-axis: **Number of Applicants**

Work Experiences	Matched	Not Matched
None	9	1
1	26	5
2	27	5
3	33	6
4	38	5
5 or More	54	5

Number of Volunteer Experiences of U.S. MD Seniors
Physical Medicine and Rehabilitation

■ **Matched** ■ **Not Matched**

X-axis: **Volunteer Experiences** (None, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or More)
Y-axis: **Number of Applicants**

Volunteer Experiences	Matched	Not Matched
None	0	0
1	3	0
2	2	0
3	8	7
4	13	3
5	22	3
6	19	2
7	15	2
8	17	2
9	17	0
10 or More	70	9

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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

■ **Matched**   ■ **Not Matched**

AOA Membership

	Yes	No
Matched	16	182
Not Matched	0	31

(Y-axis: Number of Applicants, 0–200)

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

	Yes	No
Matched	55	158
Not Matched	1	33

(Y-axis: Number of Applicants, 0–180)

Ph.D. Degree

	Yes	No
Matched	3	198
Not Matched	0	32

(Y-axis: Number of Applicants, 0–200)

Other Graduate Degree

	Yes	No
Matched	35	167
Not Matched	9	23

(Y-axis: Number of Applicants, 0–180)

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

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

PS Plastic Surgery

Summary Statistics on U.S. MD Seniors
Plastic Surgery

Measure	Matched (n=146)	Unmatched (n=85)
1. Mean number of contiguous ranks	13.9	4.4
2. Mean number of distinct specialties ranked	1.2	1.8
3. Mean USMLE Step 1 score	251	240
4. Mean USMLE Step 2 score	257	247
5. Mean number of research experiences	6.1	5.9
6. Mean number of abstracts, presentations, and publications	28.4	13.8
7. Mean number of work experiences	3.8	3.8
8. Mean number of volunteer experiences	9.2	7.8
9. Percentage who are AOA members	37.7	20.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	34.9	27.1
11. Percentage who have Ph.D. degree	2.2	1.2
12. Percentage who have another graduate degree	20.7	28.9

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
Plastic Surgery

■ Matched ■ Not Matched

Number of Applicants

- 1: Matched 116, Not Matched 24
- 2: Matched 29, Not Matched 56
- 3: Matched 1, Not Matched 4
- 4 or More: Matched 0, Not Matched 1

Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Plastic Surgery

■ Matched ■ Not Matched

Number of Applicants

- 1: Matched 1, Not Matched 13
- 2: Matched 1, Not Matched 11
- 3: Matched 3, Not Matched 17
- 4: Matched 4, Not Matched 15
- 5: Matched 4, Not Matched 6
- 6: Matched 7, Not Matched 7
- 7: Matched 7, Not Matched 3
- 8: Matched 5, Not Matched 3
- 9: Matched 11, Not Matched 2
- 10: Matched 8, Not Matched 4
- 11: Matched 4, Not Matched 1
- 12: Matched 10, Not Matched 1
- 13: Matched 6, Not Matched 0
- 14: Matched 7, Not Matched 1
- 15: Matched 8, Not Matched 0
- 16 or More: Matched 60, Not Matched 1

Contiguous Ranks

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Plastic Surgery

Probability of Matching

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Plastic Surgery

■ **Matched** ■ **Not Matched**

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	2
Between 211 and 220	0	6
Between 221 and 230	5	13
Between 231 and 240	22	21
Between 241 and 250	44	24
Between 251 and 260	47	14
>260	28	5
Score Unknown	0	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Plastic Surgery

■ **Matched** ■ **Not Matched**

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	1
Between 211 and 220	0	2
Between 221 and 230	2	6
Between 231 and 240	6	19
Between 241 and 250	21	24
Between 251 and 260	57	20
>260	54	12
Score Unknown	6	1

Step 2 CK Scores

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**
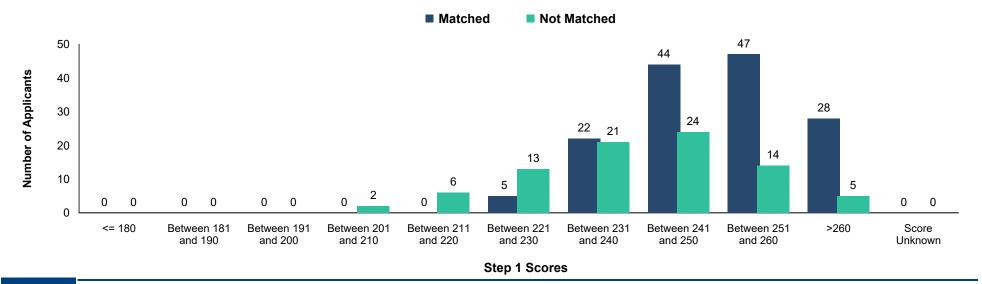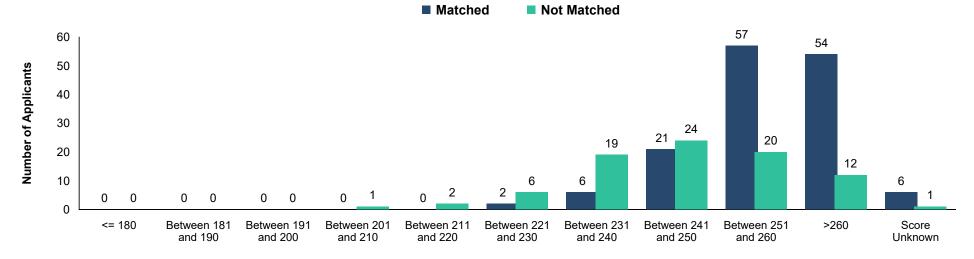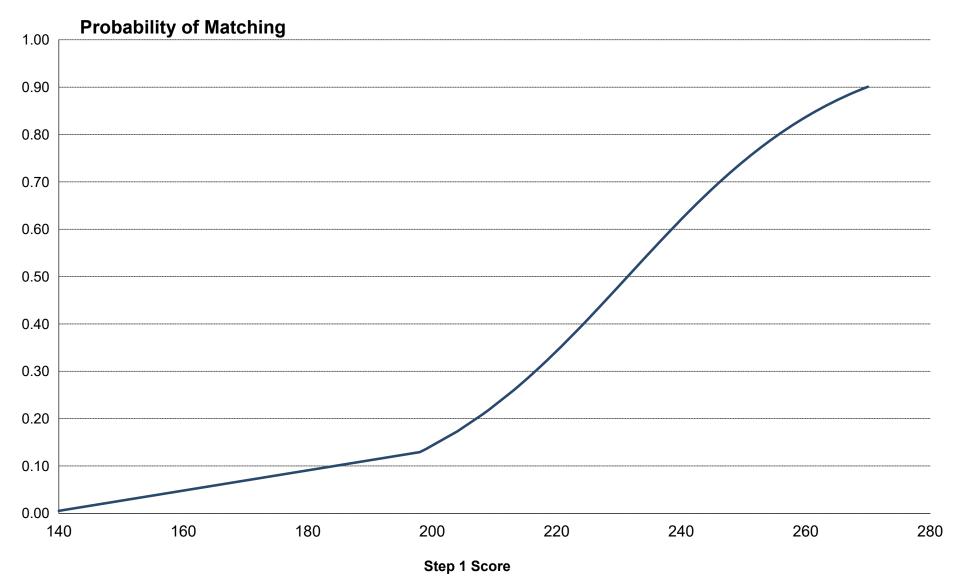
Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Plastic Surgery

Probability of Matching

Step 1 Score

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Plastic Surgery

■ Matched ■ Not Matched

Number of Applicants

Research Projects	Matched	Not Matched
None	0	0
1	4	2
2	8	7
3	18	9
4	15	13
5 or More	84	41

Research Projects

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

■ Matched ■ Not Matched

Number of Applicants

Publications	Matched	Not Matched
None	2	0
1	1	3
2	1	2
3	1	6
4	0	3
5 or More	124	57

Publications

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Plastic Surgery

■ **Matched** ■ **Not Matched**

Number of Applicants

Work Experiences	Matched	Not Matched
None	4	2
1	15	9
2	17	13
3	35	12
4	20	13
5 or More	37	22

Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Plastic Surgery

■ **Matched** ■ **Not Matched**

Number of Applicants

Volunteer Experiences	Matched	Not Matched
None	0	0
1	0	3
2	2	2
3	4	6
4	5	7
5	11	8
6	15	5
7	21	4
8	8	9
9	14	8
10 or More	47	18

Volunteer Experiences

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Plastic Surgery

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

P Psychiatry

Charting Outcomes in the Match: U.S. MD Seniors, 2022
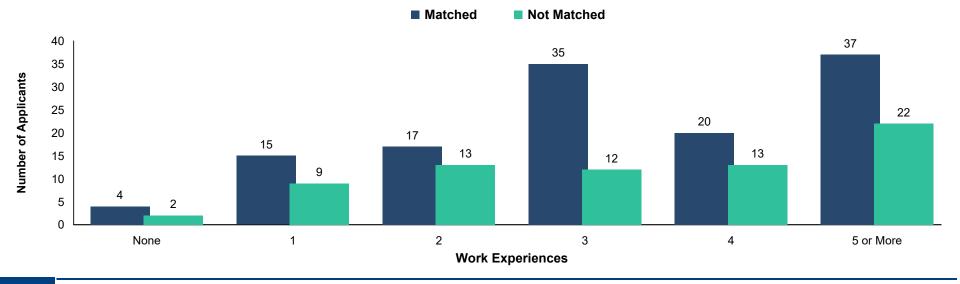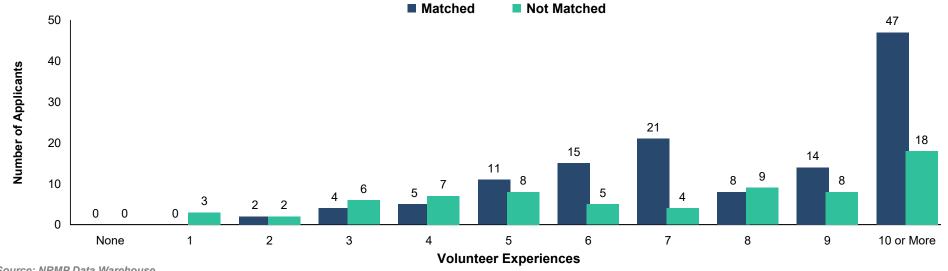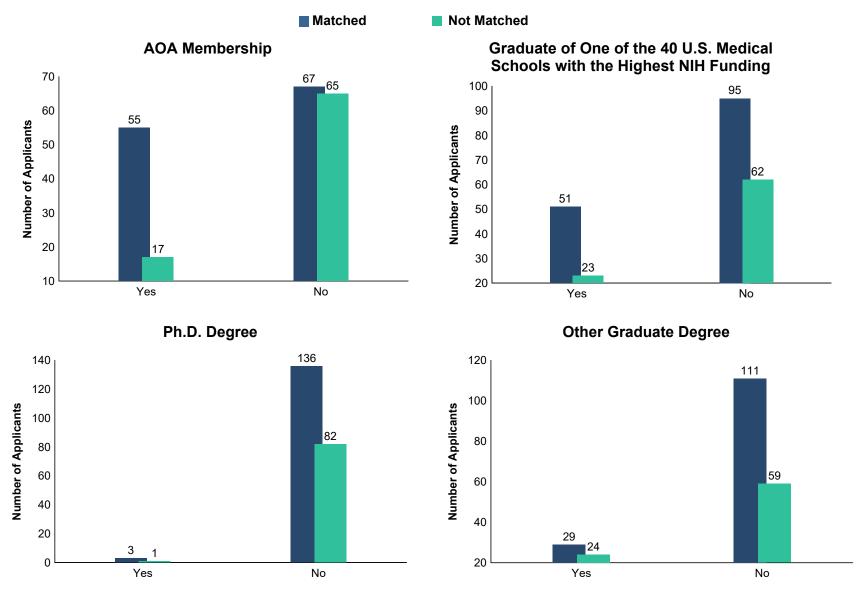
Measure	Matched (n=1,024)	Unmatched (n=72)
1. Mean number of contiguous ranks	11.9	5.3
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	228	219
4. Mean USMLE Step 2 score	242	233
5. Mean number of research experiences	3.4	2.8
6. Mean number of abstracts, presentations, and publications	6.2	4.2
7. Mean number of work experiences	3.6	3.0
8. Mean number of volunteer experiences	8.1	7.1
9. Percentage who are AOA members	7.4	1.4
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	29.7	23.6
11. Percentage who have Ph.D. degree	4.6	2.9
12. Percentage who have another graduate degree	19.0	22.9

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

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

Chart P-1

Number of Distinct Specialties Ranked by U.S. MD Seniors
Psychiatry

■ Matched   ■ Not Matched

Distinct Specialties Ranked

Distinct Specialties Ranked	Matched	Not Matched
1	924	55
2	88	14
3	9	3
4 or More	3	0
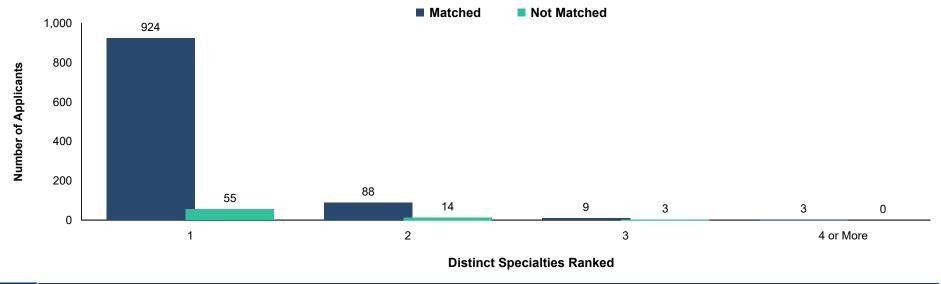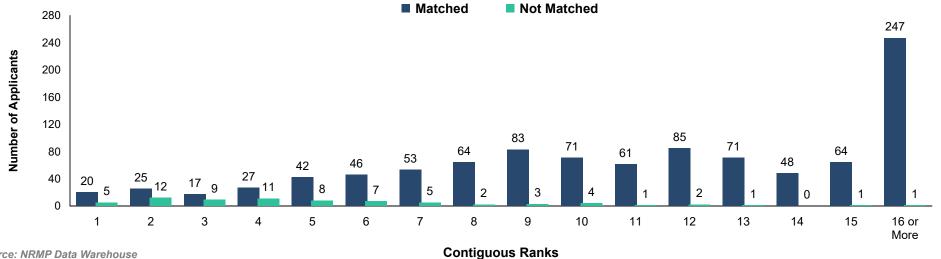
Chart P-2

Number of Contiguous Ranks of U.S. MD Seniors
Psychiatry

■ Matched   ■ Not Matched

Contiguous Ranks

Contiguous Ranks	Matched	Not Matched
1	20	5
2	25	12
3	17	9
4	27	11
5	42	8
6	46	7
7	53	5
8	64	2
9	83	3
10	71	4
11	61	1
12	85	2
13	71	1
14	48	0
15	64	1
16 or More	247	1

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

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

Probability of Matching

Number of Contiguous Ranks

USMLE Step 1 Scores of U.S. MD Seniors
Psychiatry

■ Matched   ■ Not Matched

Number of Applicants

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	41	9
Between 201 and 210	125	14
Between 211 and 220	168	17
Between 221 and 230	216	14
Between 231 and 240	218	13
Between 241 and 250	163	4
Between 251 and 260	78	1
>260	10	0
Score Unknown	5	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Psychiatry

■ Matched   ■ Not Matched

Number of Applicants

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	10	1
Between 211 and 220	65	9
Between 221 and 230	155	23
Between 231 and 240	230	19
Between 241 and 250	253	16
Between 251 and 260	193	2
>260	86	1
Score Unknown	32	1

Step 2 CK Scores

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

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

Probability of Matching

Step 1 Score

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Psychiatry

■ **Matched**   ■ **Not Matched**

Number of Applicants

Research Projects	None	1	2	3	4	5 or More
Matched	38	99	161	214	158	216
Not Matched	6	16	17	9	6	12

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Psychiatry

■ **Matched**   ■ **Not Matched**

Number of Applicants

Publications	None	1	2	3	4	5 or More
Matched	85	119	101	97	86	399
Not Matched	15	11	14	4	4	17

Publications

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Work Experiences of U.S. MD Seniors
Psychiatry

■ **Matched**   ■ **Not Matched**

Y-axis: **Number of Applicants**

Work Experiences	Matched	Not Matched
None	43	7
1	125	11
2	178	13
3	152	13
4	130	9
5 or More	251	12

X-axis: **Work Experiences**

Number of Volunteer Experiences of U.S. MD Seniors
Psychiatry

■ **Matched**   ■ **Not Matched**

Y-axis: **Number of Applicants**

Volunteer Experiences	Matched	Not Matched
None	1	0
1	12	1
2	22	4
3	56	9
4	63	8
5	97	3
6	91	5
7	92	8
8	96	7
9	69	4
10 or More	281	15

X-axis: **Volunteer Experiences**

Source: NRMP Data Warehouse

Charting Outcomes in the Match:
U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Psychiatry

■ **Matched**　　　■ **Not Matched**

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022
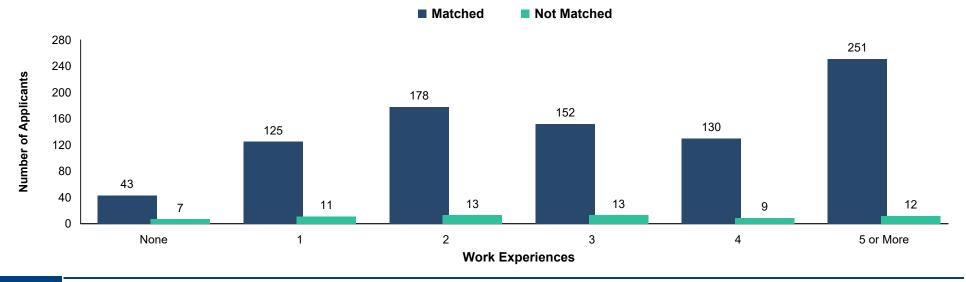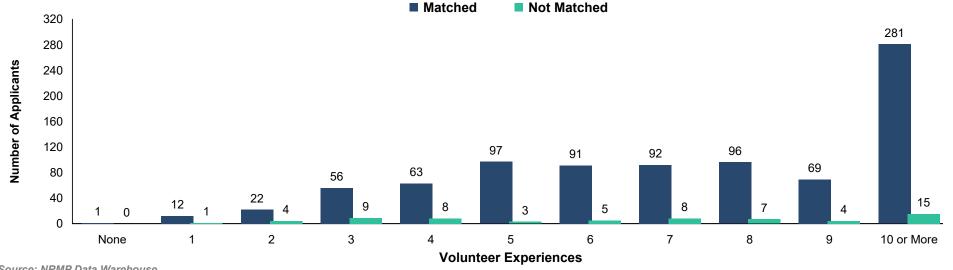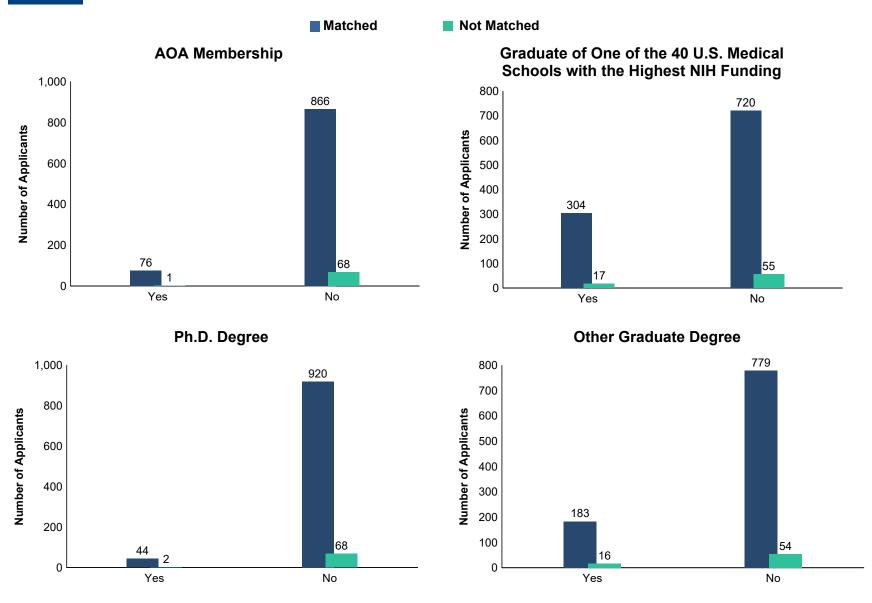
Summary Statistics on U.S. MD Seniors
Radiation Oncology

Measure	Matched (n=81)	Unmatched (n=2)
1. Mean number of contiguous ranks	17.6	4.0
2. Mean number of distinct specialties ranked	1.3	1.5
3. Mean USMLE Step 1 score	240	209
4. Mean USMLE Step 2 score	249	232
5. Mean number of research experiences	4.5	
6. Mean number of abstracts, presentations, and publications	13.3	
7. Mean number of work experiences	3.5	
8. Mean number of volunteer experiences	8.0	
9. Percentage who are AOA members	14.8	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	35.8	50.0
11. Percentage who have Ph.D. degree	19.7	
12. Percentage who have another graduate degree	18.7	

Note: Only U.S. MD seniors who gave consent to use their information in research are included. Individual measures without reported data for applicants preferring Radiation Oncology are due to the very low number of unmatched applicants not reporting data for these measures.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

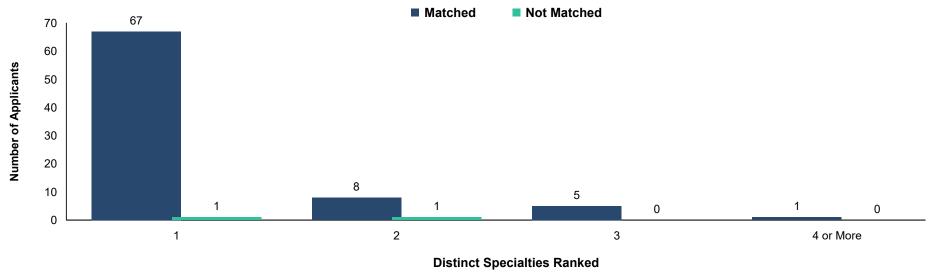## Number of Distinct Specialties Ranked by U.S. MD Seniors
Radiation Oncology
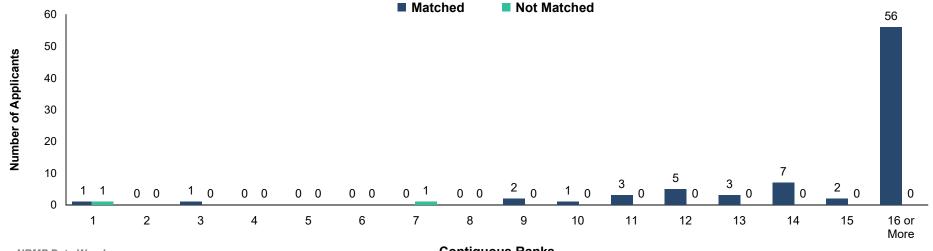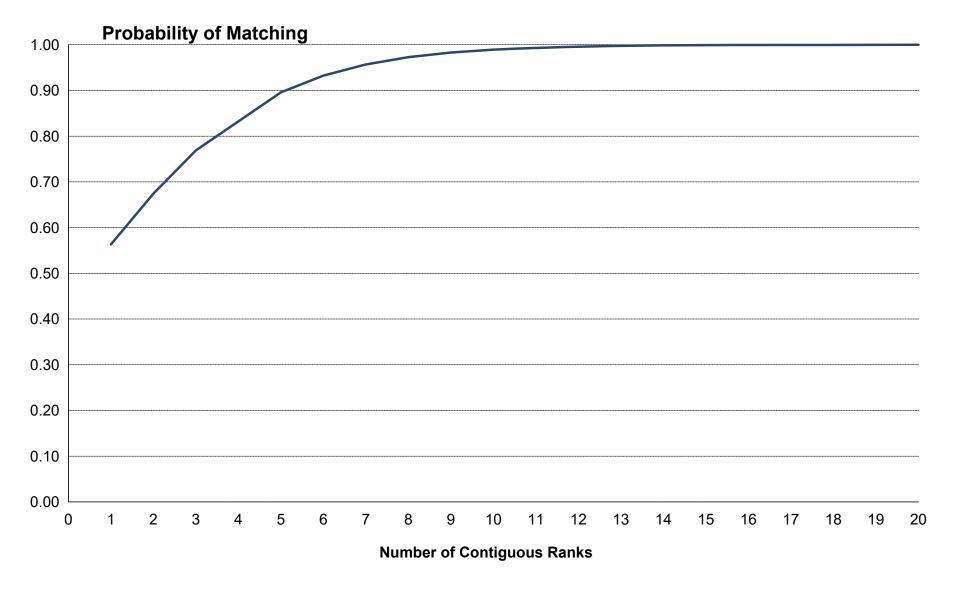
Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants (0 to 70)

X-axis: Distinct Specialties Ranked

Distinct Specialties Ranked	Matched	Not Matched
1	67	1
2	8	1
3	5	0
4 or More	1	0

Number of Contiguous Ranks of U.S. MD Seniors
Radiation Oncology

Legend: ■ Matched ■ Not Matched

Y-axis: Number of Applicants (0 to 60)

X-axis: Contiguous Ranks

Contiguous Ranks	Matched	Not Matched
1	1	1
2	0	0
3	1	0
4	0	0
5	0	0
6	0	0
7	0	1
8	0	0
9	2	0
10	1	0
11	3	0
12	5	0
13	3	0
14	7	0
15	2	0
16 or More	56	0

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Radiation Oncology

Probability of Matching

Number of Contiguous Ranks

Charting Outcomes in the Match: U.S. MD Seniors, 2022

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

■ Matched ■ Not Matched

Number of Applicants (y-axis)

Step 1 Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	5	2
Between 211 and 220	6	0
Between 221 and 230	12	0
Between 231 and 240	11	0
Between 241 and 250	20	0
Between 251 and 260	21	0
>260	5	0
Score Unknown	1	0

Step 1 Scores

USMLE Step 2 CK Scores of U.S. MD Seniors
Radiation Oncology

■ Matched ■ Not Matched

Number of Applicants (y-axis)

Step 2 CK Scores	Matched	Not Matched
<= 180	0	0
Between 181 and 190	0	0
Between 191 and 200	0	0
Between 201 and 210	0	0
Between 211 and 220	2	0
Between 221 and 230	5	0
Between 231 and 240	12	2
Between 241 and 250	19	0
Between 251 and 260	21	0
>260	18	0
Score Unknown	4	0

Step 2 CK Scores

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by USMLE Step 1 Score
Radiation Oncology

Probability of Matching

Step 1 Score

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Number of Research Projects of U.S. MD Seniors
Radiation Oncology

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Research Projects	Matched	Not Matched
None	0	0
1	2	0
2	5	0
3	15	0
4	18	0
5 or More	29	0

Research Projects

Number of Abstracts, Presentations, and Publications of U.S. MD Seniors
Radiation Oncology

■ **Matched**   ■ **Not Matched**

Number of Applicants (y-axis)

Publications	Matched	Not Matched
None	1	0
1	3	0
2	2	0
3	6	0
4	2	0
5 or More	55	0

Publications

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Number of Work Experiences of U.S. MD Seniors
Radiation Oncology

■ Matched   ■ Not Matched

Number of Applicants

Work Experiences	Matched	Not Matched
None	2	0
1	9	0
2	17	0
3	14	0
4	12	0
5 or More	14	0

Work Experiences

Number of Volunteer Experiences of U.S. MD Seniors
Radiation Oncology

■ Matched   ■ Not Matched

Number of Applicants

Volunteer Experiences	Matched	Not Matched
None	0	0
1	3	0
2	4	0
3	3	0
4	9	0
5	6	0
6	4	0
7	6	0
8	5	0
9	7	0
10 or More	21	0

Volunteer Experiences

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Other Characteristics of U.S. MD Seniors
Radiation Oncology

■ Matched   ■ Not Matched

AOA Membership

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

Ph.D. Degree

Other Graduate Degree

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022

VS | Vascular Surgery

	Summary Statistics on U.S. MD Seniors
Table VS-1	**Summary Statistics on U.S. MD Seniors** *Vascular Surgery*

Measure	Matched (n=62)	Unmatched (n=15)
1. Mean number of contiguous ranks	20.2	10.7
2. Mean number of distinct specialties ranked	1.4	1.7
3. Mean USMLE Step 1 score	241	238
4. Mean USMLE Step 2 score	250	245
5. Mean number of research experiences	6.3	3.8
6. Mean number of abstracts, presentations, and publications	12.4	11.3
7. Mean number of work experiences	3.0	2.6
8. Mean number of volunteer experiences	7.1	6.6
9. Percentage who are AOA members	22.6	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	46.8	20.0
11. Percentage who have Ph.D. degree	5.1	6.7
12. Percentage who have another graduate degree	20.7	26.7

Note: Only U.S. MD seniors who gave consent to use their information in research are included.
Sources. NRMP Data Warehouse; Top 40 U.S. medical schools with the highest NIH funding in measure 10 is from the NIH website (http://report.nih.gov/award/index.cfm).

Number of Distinct Specialties Ranked by U.S. MD Seniors
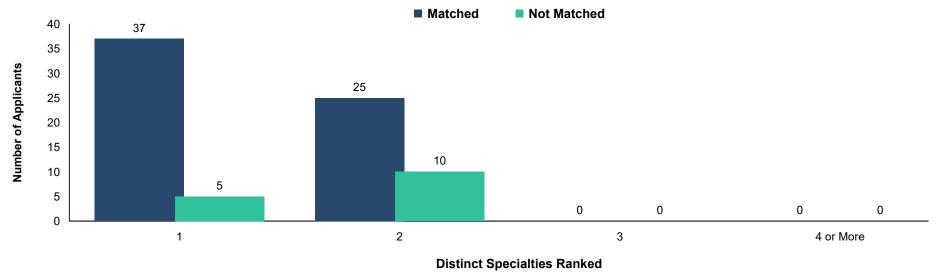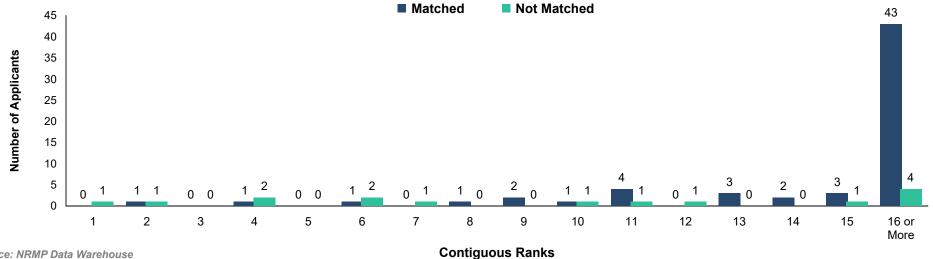*Vascular Surgery*
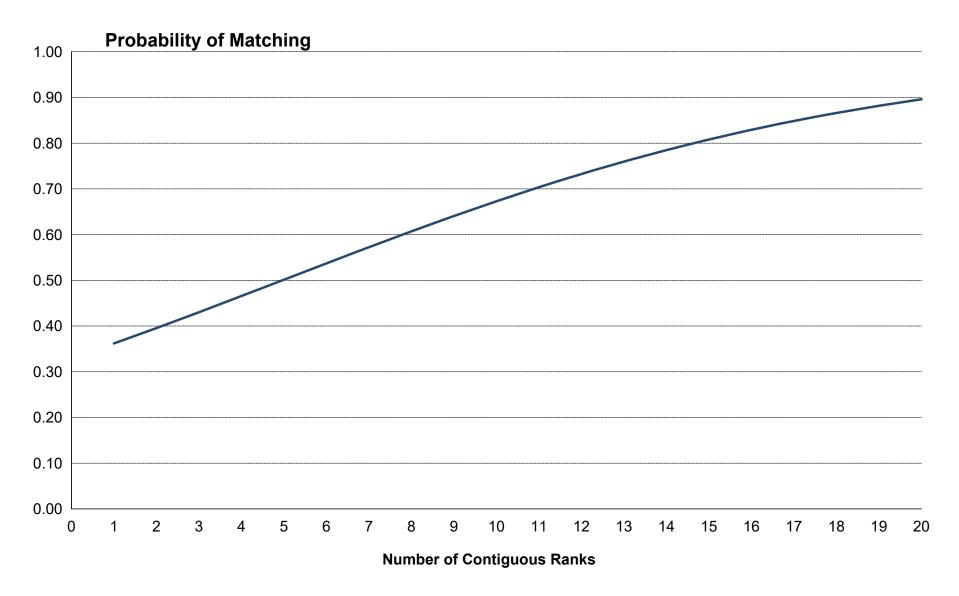
Distinct Specialties Ranked

Number of Contiguous Ranks of U.S. MD Seniors
Vascular Surgery

Contiguous Ranks

Source: NRMP Data Warehouse

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Probability of U.S. MD Seniors Matching to Preferred Specialty by Number of Contiguous Ranks
Vascular Surgery

Probability of Matching

Number of Contiguous Ranks

Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2020-2022 applicants

Charting Outcomes in the Match: U.S. MD Seniors, 2022

USMLE Step 1 Scores of U.S. MD Seniors
Vascular Surgery

Legend: ■ Matched ■ Not Matched

Number of Applicants (y-axis): 0, 4, 8, 12, 16, 20, 24

Step 1 Scores (x-axis categories and values — Matched, Not Matched):
- <= 180: 0, 0
- Between 181 and 190: 0, 0
- Between 191 and 200: 0, 0
- Between 201 and 210: 0, 1
- Between 211 and 220: 6, 1
- Between 221 and 230: 3, 1
- Between 231 and 240: 23, 4
- Between 241 and 250: 18, 5
- Between 251 and 260: 8, 3
- >260: 4, 0
- Score Unknown: 0, 0

USMLE Step 2 CK Scores of U.S. MD Seniors
Vascular Surgery

Legend: ■ Matched ■ Not Matched

Number of Applicants (y-axis): 0, 4, 8, 12, 16, 20, 24

Step 2 CK Scores (x-axis categories and values — Matched, Not Matched):
- <= 180: 0, 0
- Between 181 and 190: 0, 0
- Between 191 and 200: 0, 0
- Between 201 and 210: 0, 0
- Between 211 and 220: 1, 0
- Between 221 and 230: 2, 2
- Between 231 and 240: 9, 1
- Between 241 and 250: 14, 8
- Between 251 and 260: 22, 3
- >260: 12, 1
- Score Unknown: 2, 0

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

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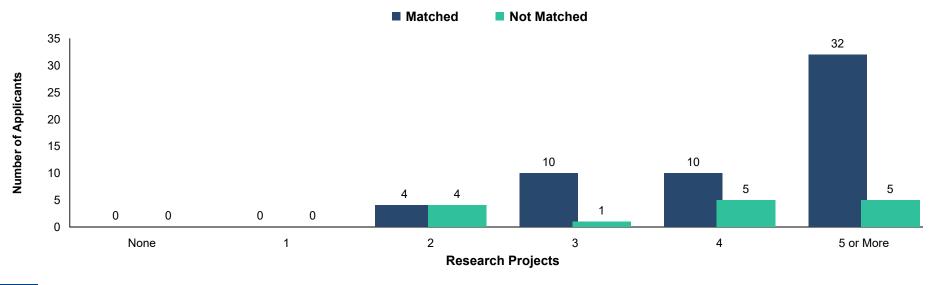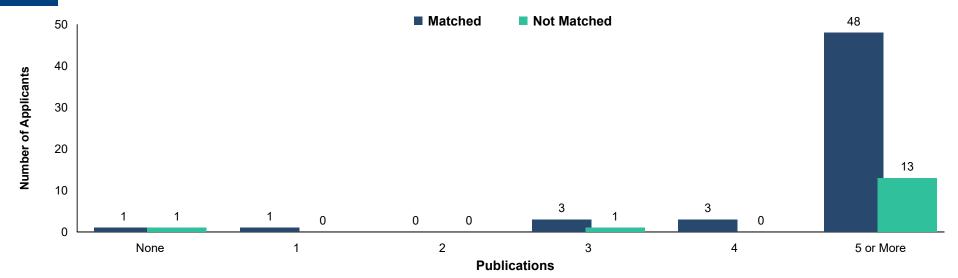
Probability of Matching

Step 1 Score

Charting Outcomes in the Match: U.S. MD Seniors, 2022

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

■ **Matched**   ■ **Not Matched**

X-axis: **Research Projects** — None, 1, 2, 3, 4, 5 or More
Y-axis: **Number of Applicants**

Research Projects	Matched	Not Matched
None	0	0
1	0	0
2	4	4
3	10	1
4	10	5
5 or More	32	5

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

■ **Matched**   ■ **Not Matched**

X-axis: **Publications** — None, 1, 2, 3, 4, 5 or More
Y-axis: **Number of Applicants**

Publications	Matched	Not Matched
None	1	1
1	1	0
2	0	0
3	3	1
4	3	0
5 or More	48	13

Source: NRMP Data Warehouse

**Charting Outcomes in the Match:
U.S. MD Seniors, 2022**

Chart VS-7

Number of Work Experiences of U.S. MD Seniors
Vascular Surgery
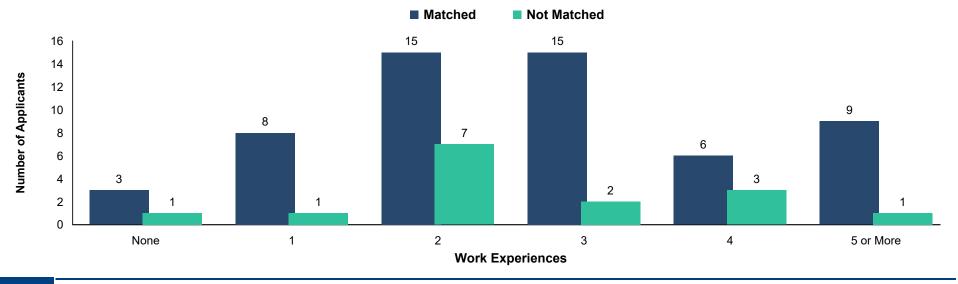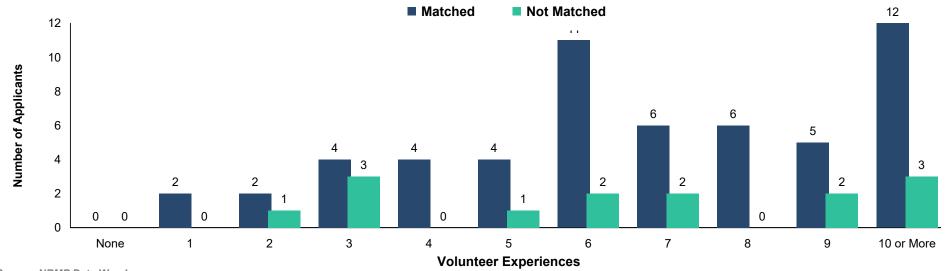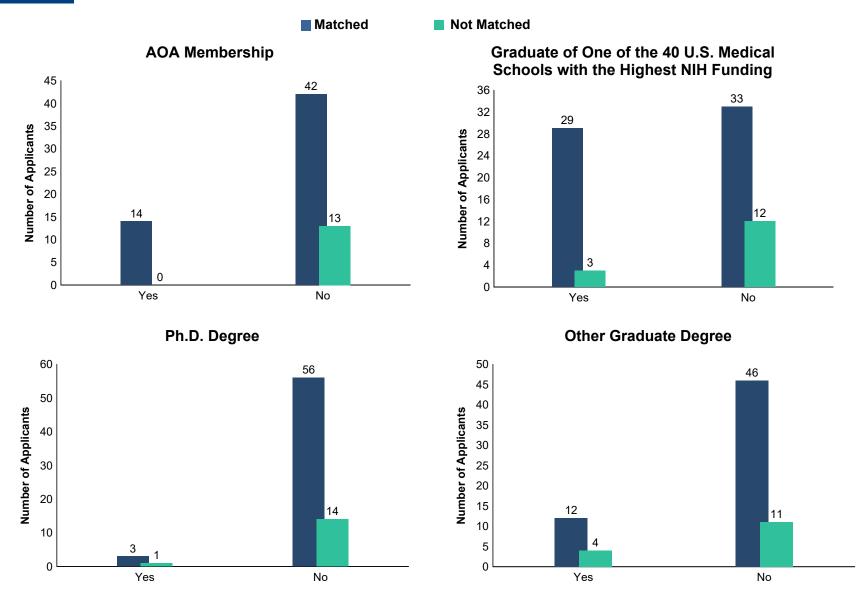
Chart VS-8

Number of Volunteer Experiences of U.S. MD Seniors
Vascular Surgery

Charting Outcomes in the Match: U.S. MD Seniors, 2022

Other Characteristics of U.S. MD Seniors
Vascular Surgery

■ **Matched**   ■ **Not Matched**

AOA Membership

Number of Applicants

	Yes	No
Matched	14	42
Not Matched	0	13

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

Number of Applicants

	Yes	No
Matched	29	33
Not Matched	3	12

Ph.D. Degree

Number of Applicants

	Yes	No
Matched	3	56
Not Matched	1	14

Other Graduate Degree

Number of Applicants

	Yes	No
Matched	12	46
Not Matched	4	11

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

Charting Outcomes in the Match: U.S. MD Seniors, 2022