



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

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

**2nd Edition**

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[www.nrmp.org](http://www.nrmp.org)

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**Background**

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

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

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

**Data**

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

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

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

**Methods**

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

Twelve measures are incorporated in this report. Probability analysis using a simple logistic regression model was introduced in 2009 to evaluate the relationship between Match success and contiguous ranks and USMLE Step 1 scores. Probability analyses in this report used data on U.S. seniors who participated in the Match in 2016, 2017, and 2018.

*It is important to note that for purposes of this report, Match success is defined as a match to the specialty of the applicant's first-ranked program, or "preferred specialty," because that is assumed to be the specialty of choice. Lack of success includes matching to another specialty as well as failure to match at all. No distinction was made based on whether applicants matched to the first, second, third, or lower choice program.*

### Summary

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

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

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

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

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

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

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

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## Tables and Charts for All Specialties

**Chart  
1**

**Active Applicants in the 2018 Main Residency Match  
by Applicant Type**

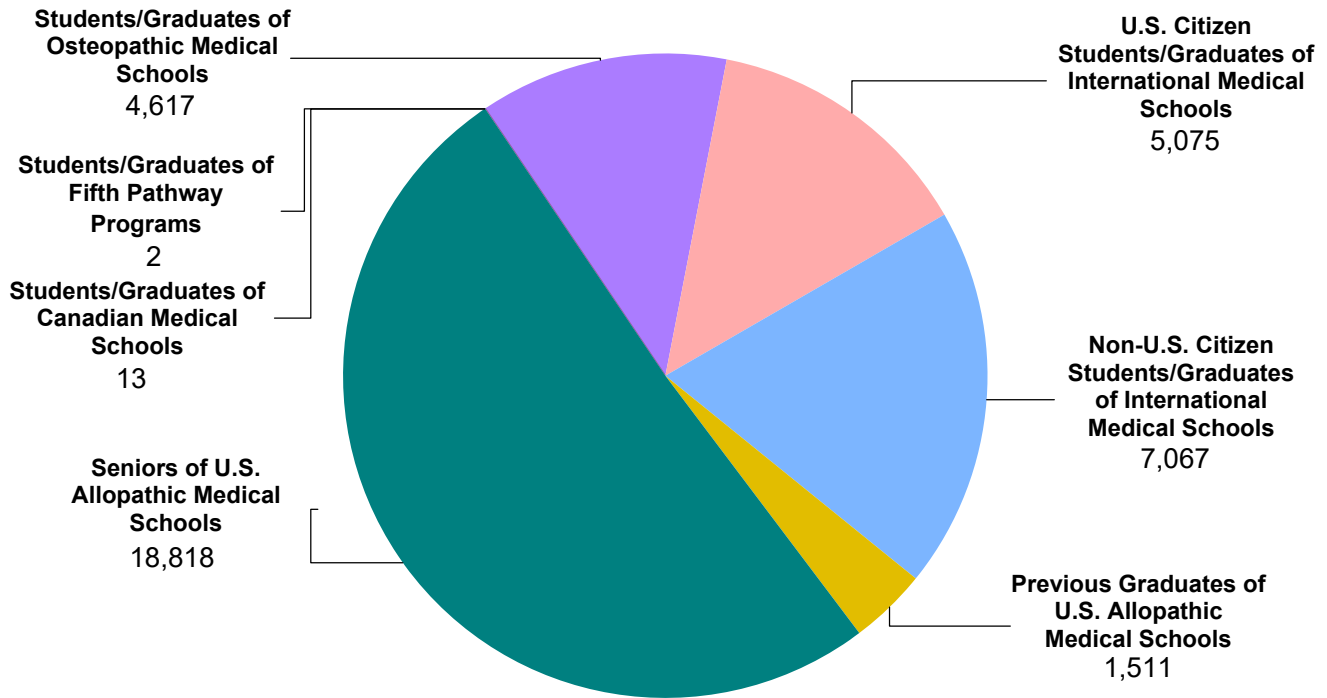


Chart 1 shows the number of active applicants (applicants who submitted rank order lists of programs) by applicant type in the 2018 Main Residency Match. A total of 37,103 active applicants participated in the 2018 Main Residency Match. U.S. allopathic medical school seniors constituted 50.7 percent of the applicants in the 2018 Match. The next largest group were non-U.S. citizen students and graduates of international medical schools (19.0%). The numbers of Fifth Pathway (n=2) and Canadian graduates (n=13) are small.

**Table  
1**

**Number of Applicants and Positions in the 2018 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. Seniors			Number of U.S. Seniors Per Position
				Matched	Not Matched	Total	
Anesthesiology	1,840	2,004	1.09	1,084	45	1,129	0.61
Child Neurology	168	166	0.99	102	1	103	0.61
Dermatology	472	651	1.38	368	83	451	0.96
Diagnostic Radiology	1,099	1,289	1.17	682	85	767	0.70
Emergency Medicine	2,278	2,693	1.18	1,597	151	1,748	0.77
Family Medicine	3,629	4,402	1.21	1,558	77	1,635	0.45
General Surgery	1,319	1,955	1.48	972	185	1,157	0.88
Internal Medicine	7,916	10,032	1.27	3,333	73	3,406	0.43
Internal Medicine/Pediatrics	382	439	1.15	301	21	322	0.84
Interventional Radiology	136	253	1.86	120	86	206	1.51
Neurological Surgery	225	310	1.38	203	32	235	1.04
Neurology	859	1,070	1.25	466	21	487	0.57
Obstetrics and Gynecology	1,336	1,745	1.31	1,050	145	1,195	0.89
Orthopaedic Surgery	742	987	1.33	691	148	839	1.13
Otolaryngology	315	329	1.04	284	13	297	0.94
Pathology	601	692	1.15	216	8	224	0.37
Pediatrics	2,858	3,059	1.07	1,748	21	1,769	0.62
Physical Medicine and Rehabilitation	421	579	1.38	239	33	272	0.65
Plastic Surgery	168	222	1.32	156	26	182	1.08
Psychiatry	1,556	2,383	1.53	965	184	1,149	0.74
Radiation Oncology	194	215	1.11	176	14	190	0.98
Vascular Surgery	60	77	1.28	48	5	53	0.88

\* 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.

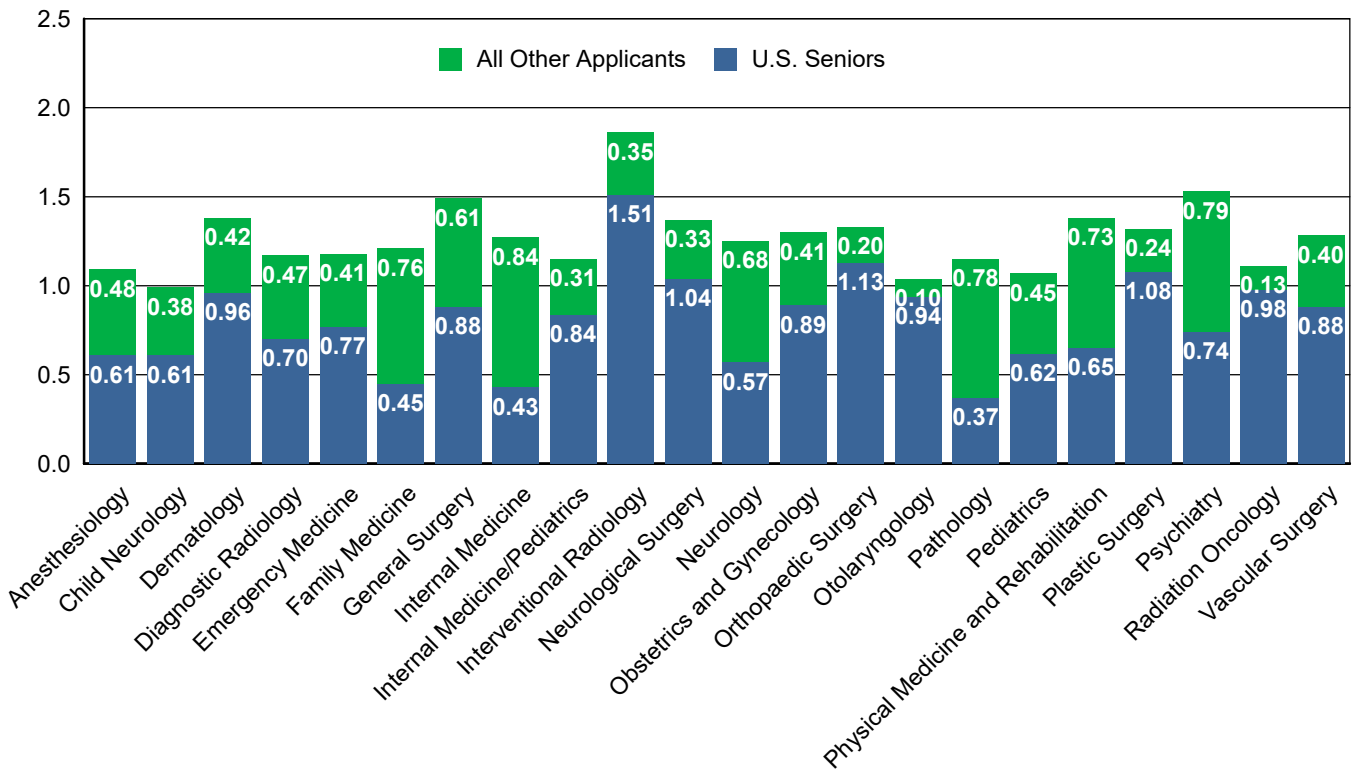
Table 1 provides a summary of the numbers of positions for selected specialties and the numbers of all applicants and U.S. allopathic seniors who preferred each specialty. For example, a total of 2,004 applicants preferred Anesthesiology (or ranked an Anesthesiology position first), among whom 1,129 were U.S. allopathic seniors (1,084 matched and 45 not matched to Anesthesiology). For each of the 1,840 Anesthesiology positions there were 1.09 applicants who preferred the specialty, including 0.61 U.S. allopathic seniors.

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



**Chart  
2**

**Ratio of U.S. Allopathic Seniors Ranking Specialty First / Available Positions  
by Preferred Specialty**

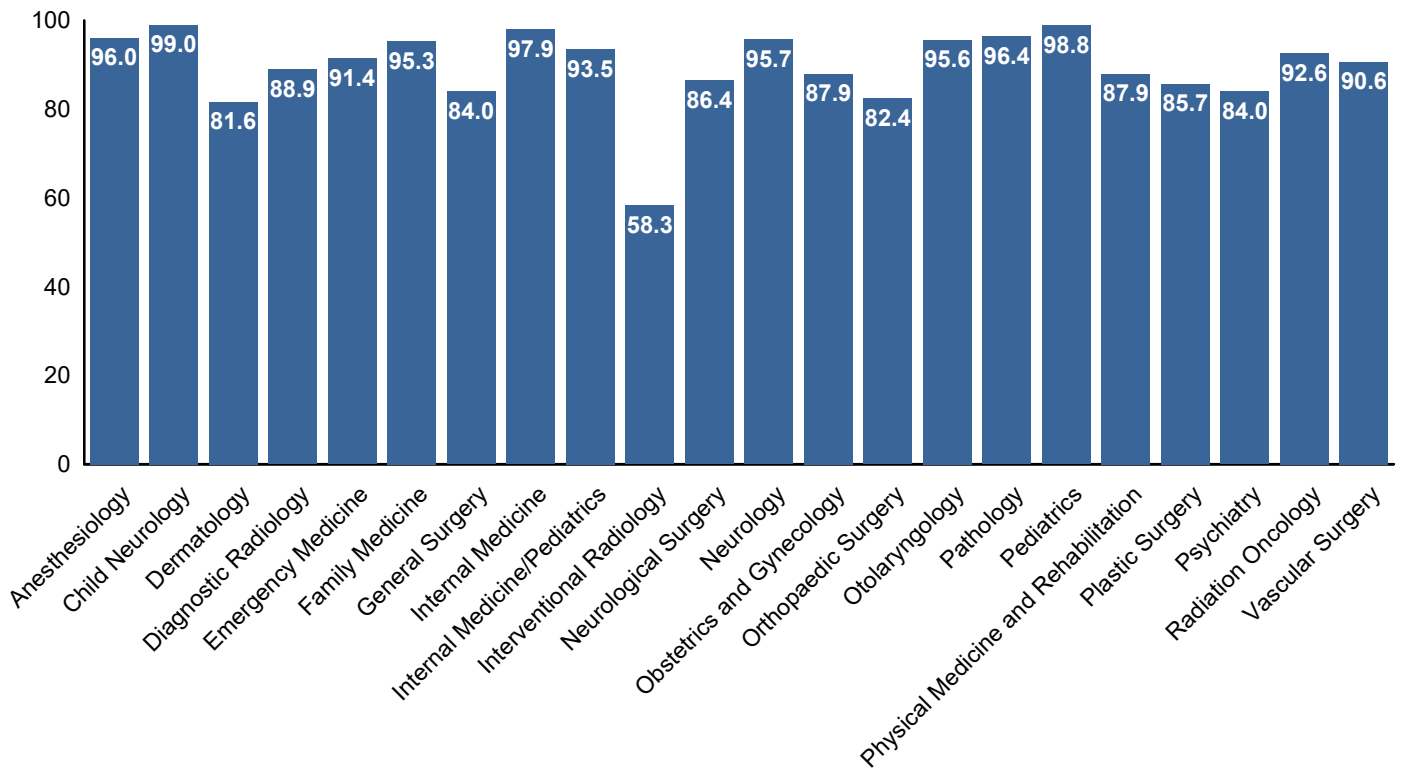


Source: NRMP Data Warehouse

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

**Chart  
3**

**Match Rates of U.S. Allopathic Seniors  
Percent Matched by Preferred Specialty**



Source: NRMP Data Warehouse

Chart 3 shows the percentages of U.S. seniors who matched to their preferred specialty. Overall, 91.8 percent of U.S. seniors matched to their preferred specialty, ranging from a high of 99.0 percent (Child Neurology) to a low of 58.3 percent (Interventional Radiology).

**Table  
2****Summary Statistics on U.S. Allopathic Seniors  
All Specialties Combined**

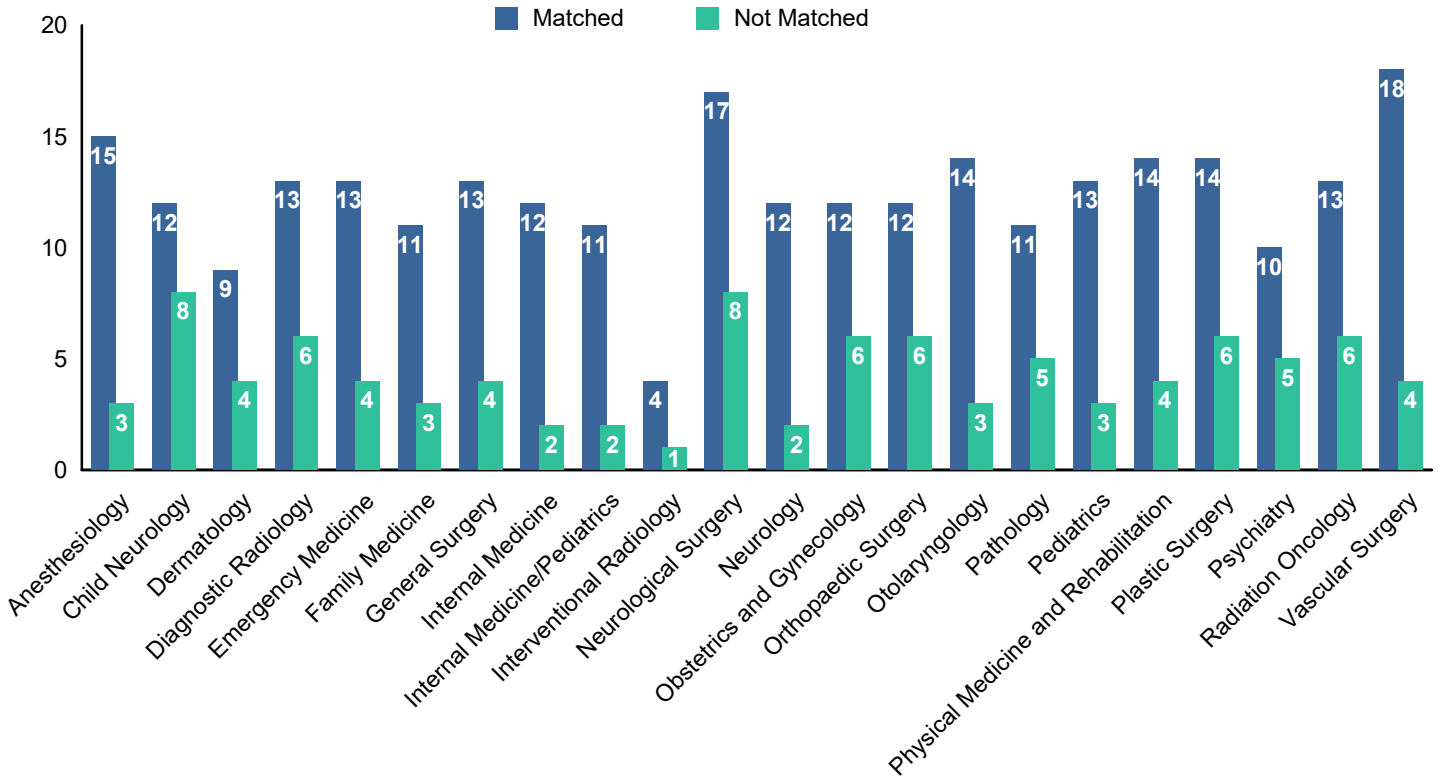
Measure	Matched (n=15,451)	Unmatched (n=1,336)
1. Mean number of contiguous ranks	12.3	5.3
2. Mean number of distinct specialties ranked	1.2	1.6
3. Mean USMLE Step 1 score	233	224
4. Mean USMLE Step 2 CK score	246	236
5. Mean number of research experiences	3.2	3.3
6. Mean number of abstracts, presentations,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

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

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

**Chart  
4**

**Median Number of Contiguous Ranks of U.S. Allopathic Seniors  
by Preferred Specialty and Match Status**



Source: NRMP Data Warehouse

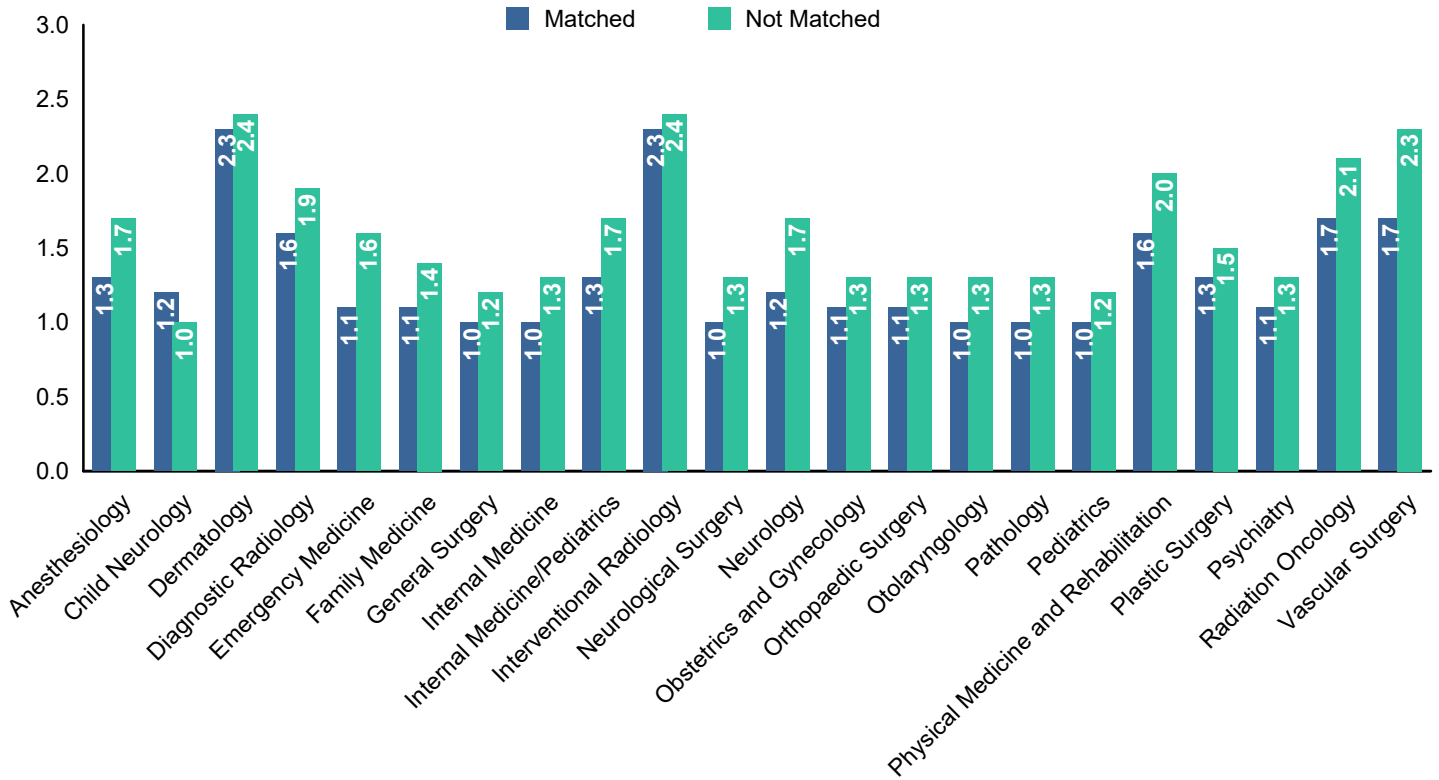
In general, applicants are more likely to be successful if they rank more programs in their desired specialty. To quantify this aspect of applicant behavior, we tallied the number of programs ranked in the first-choice specialty before a program in another specialty appeared on the applicant's rank order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

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

The principal message of this chart is that applicants with longer rank order lists are more successful than those with shorter ones. The NRMP has been recommending longer lists for many years, but some applicants apparently do not heed the advice. Others may have shorter lists because they found only a few programs willing to entertain their applications or because they could not afford a large number of interview trips.

**Chart  
5**

**Mean Number of Different Specialties Ranked by U.S. Allopathic Seniors  
by Preferred Specialty and Match Status**

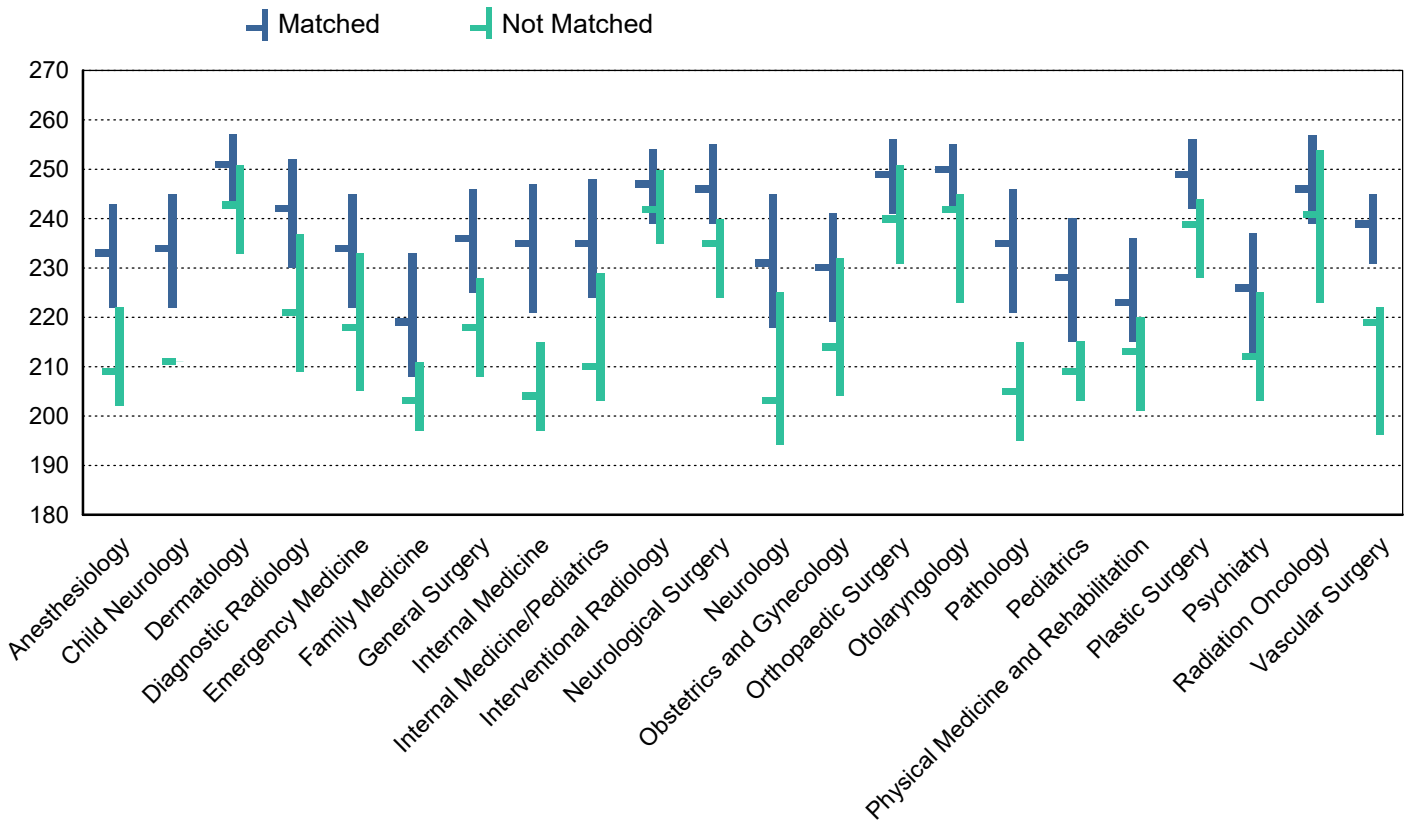


Source: NRMP Data Warehouse

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 except Child Neurology, U.S. allopathic seniors who did not match to their preferred specialty had a higher mean number of different specialties ranked.

**Chart  
6**

**USMLE Step 1 Scores of U.S. Allopathic Seniors  
by Preferred Specialty and Match Status**



Source: NRMP Data Warehouse

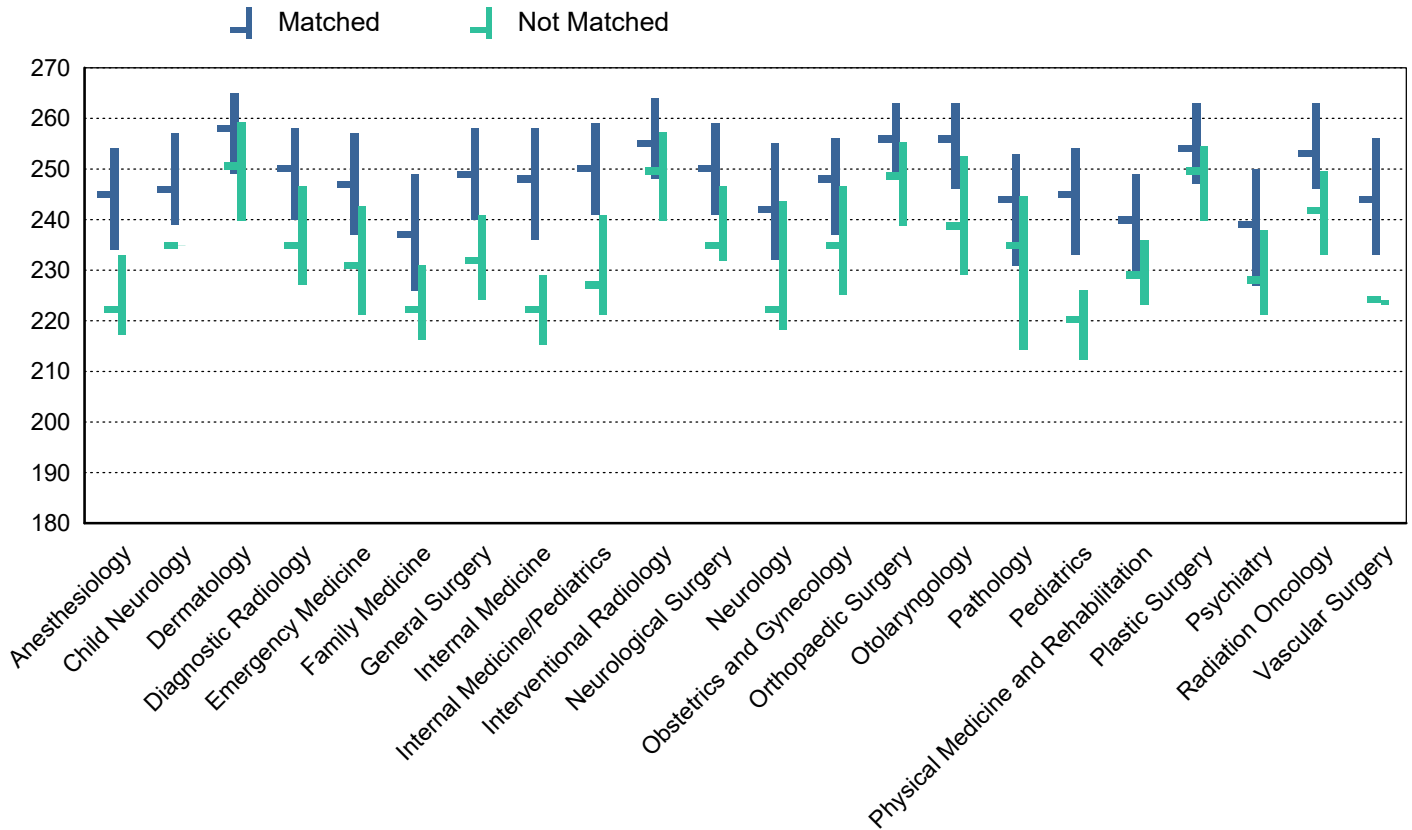
USMLE Step 1 scores are a measure of a student’s understanding of important basic science concepts and the ability to apply that knowledge to the practice of medicine. Although such knowledge is only one facet of applicant qualifications considered by program directors in their selection process, a Step 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. allopathic seniors who matched to their preferred specialty have *mean* USMLE Step 1 scores of 232.8 (s.d. = 17.5) well above the 2018 minimum passing score of 194. Step 1 scores were available for 99 percent of U.S. seniors who gave consent to research.

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

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

**Chart  
7**

**USMLE Step 2 CK Scores of U.S. Allopathic Seniors  
by Preferred Specialty and Match Status**



Source: NRMP Data Warehouse

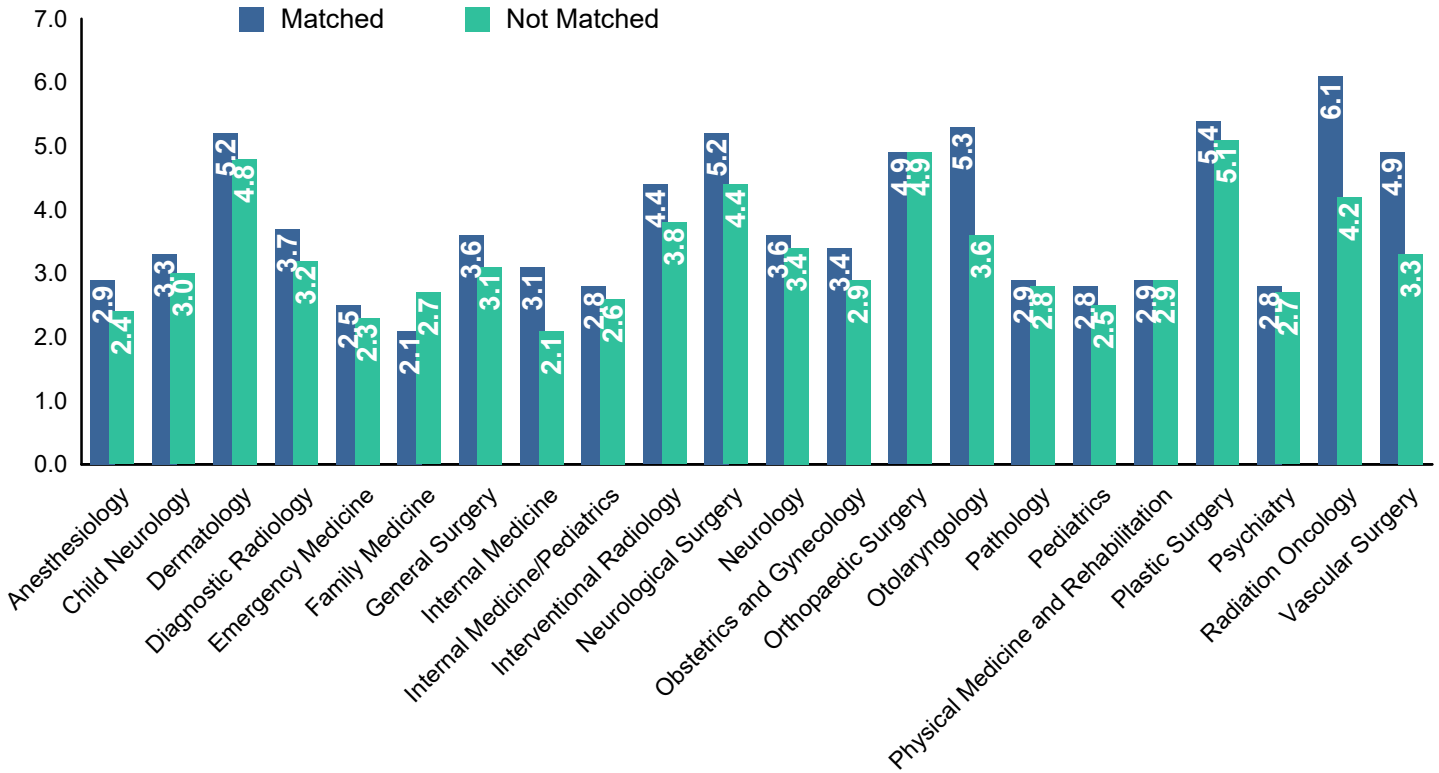
USMLE Step 2 CK scores are a measure of an applicant's ability to apply the medical knowledge, skills, and understanding of clinical science essential for providing patient care. Overall, U.S. allopathic seniors who matched to their preferred specialty had *mean* USMLE Step 2 CK scores of 245.6 (s.d. = 15.0) well above the 2018 minimum passing score of 209. Step 2 CK scores were available for 97 percent of U.S. seniors who gave consent to research.

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

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

**Chart  
8**

**Mean Number of Research Experiences of U.S. Allopathic Seniors  
by Preferred Specialty and Match Status**



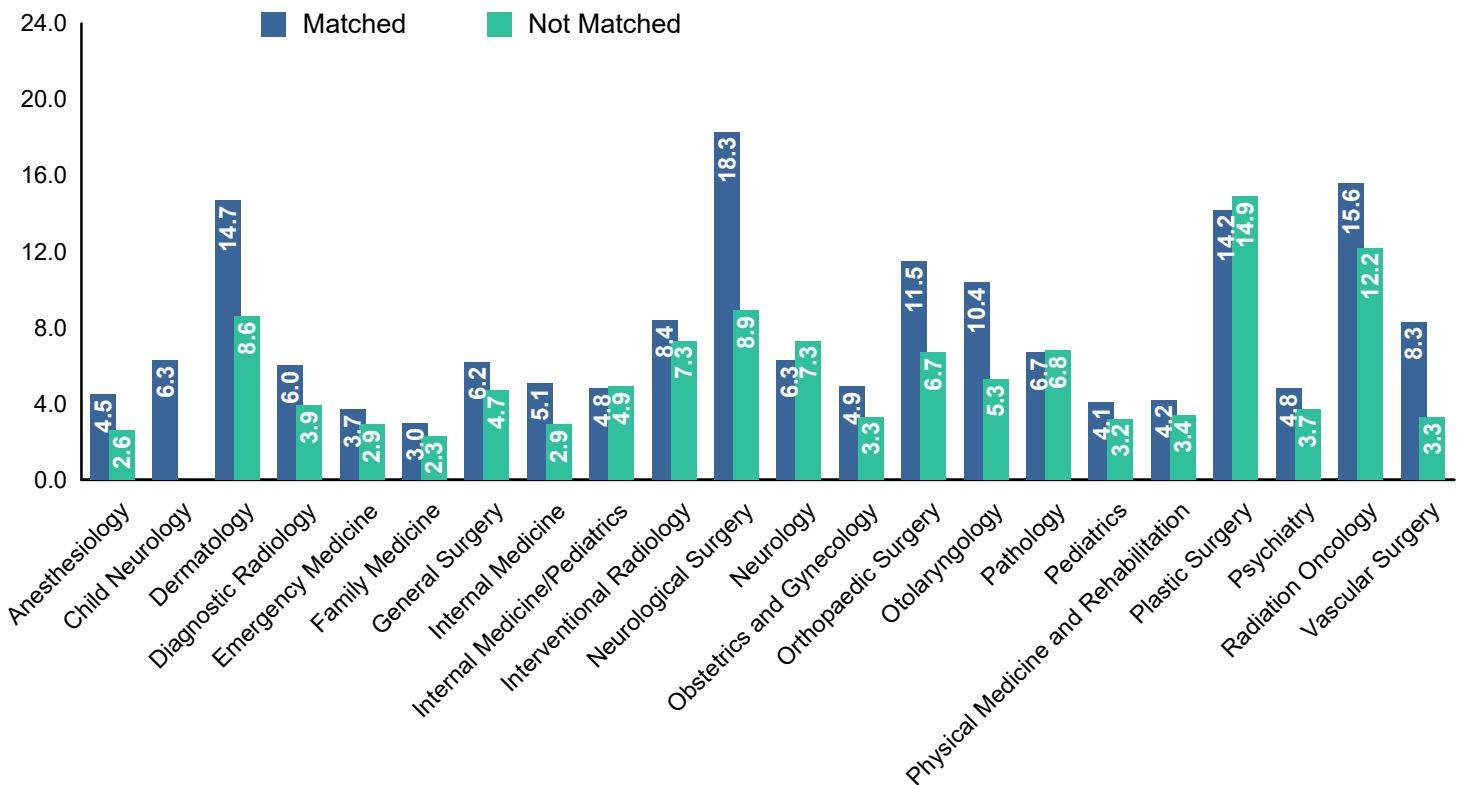
Source: NRMP Data Warehouse

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. seniors averaged 3.3 research experiences, with 84.9 percent reporting this information. For all specialties except Family Medicine, matched U.S. seniors had more or equal numbers of research experiences on average.



**Chart  
9**

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



Source: NRMP Data Warehouse

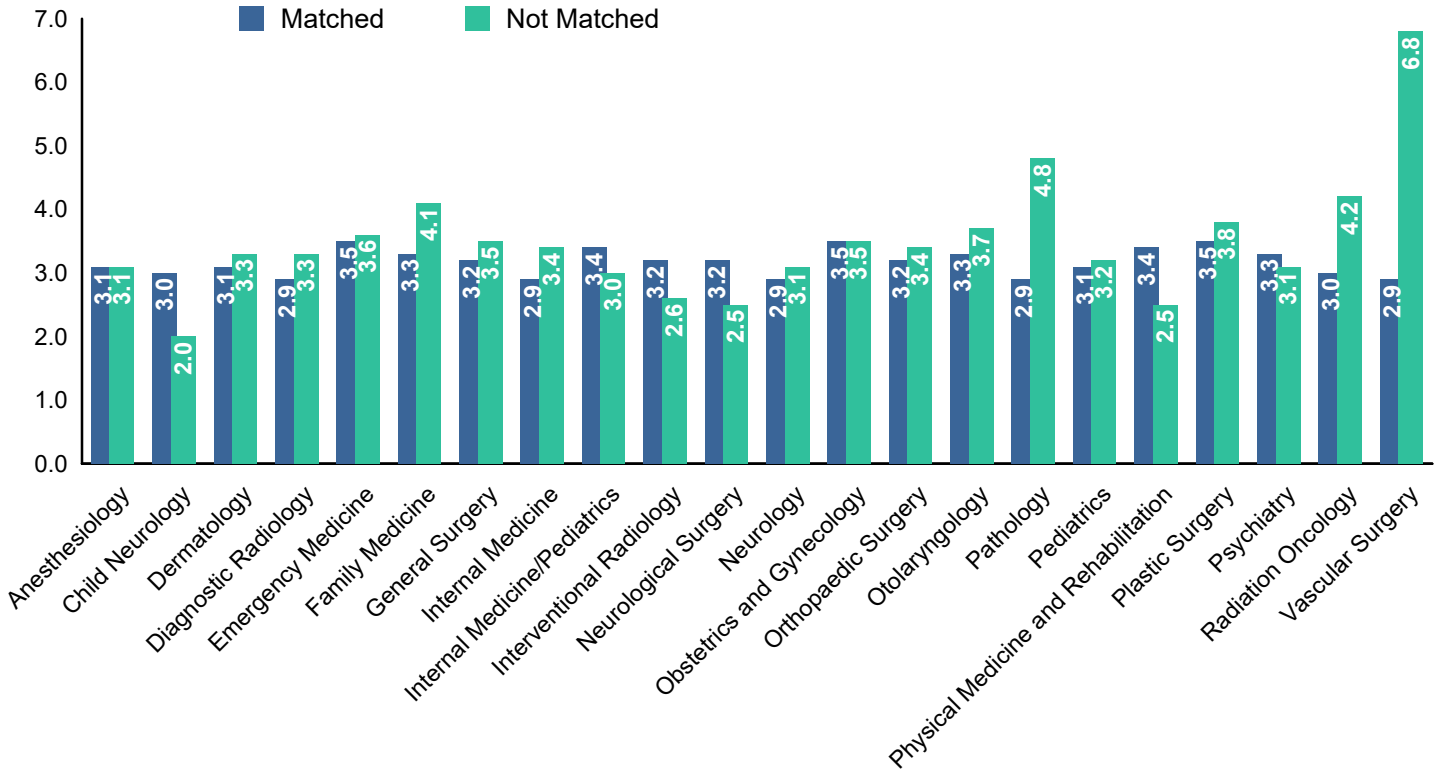
Applicants were asked to list the number of abstracts, presentations, and publications they reported in their ERAS applications. This information is self-reported and may include peer-reviewed articles, abstracts, poster sessions, and invited national or regional presentations. Some residency programs 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. seniors averaged 5.8 publications, with 78.0 percent reporting this information. Matched U.S. seniors had a higher mean number of abstracts, presentations, and publications in all specialties but Internal Medicine/Pediatrics, Neurology, Pathology, and Plastic Surgery.

**Chart  
10**

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

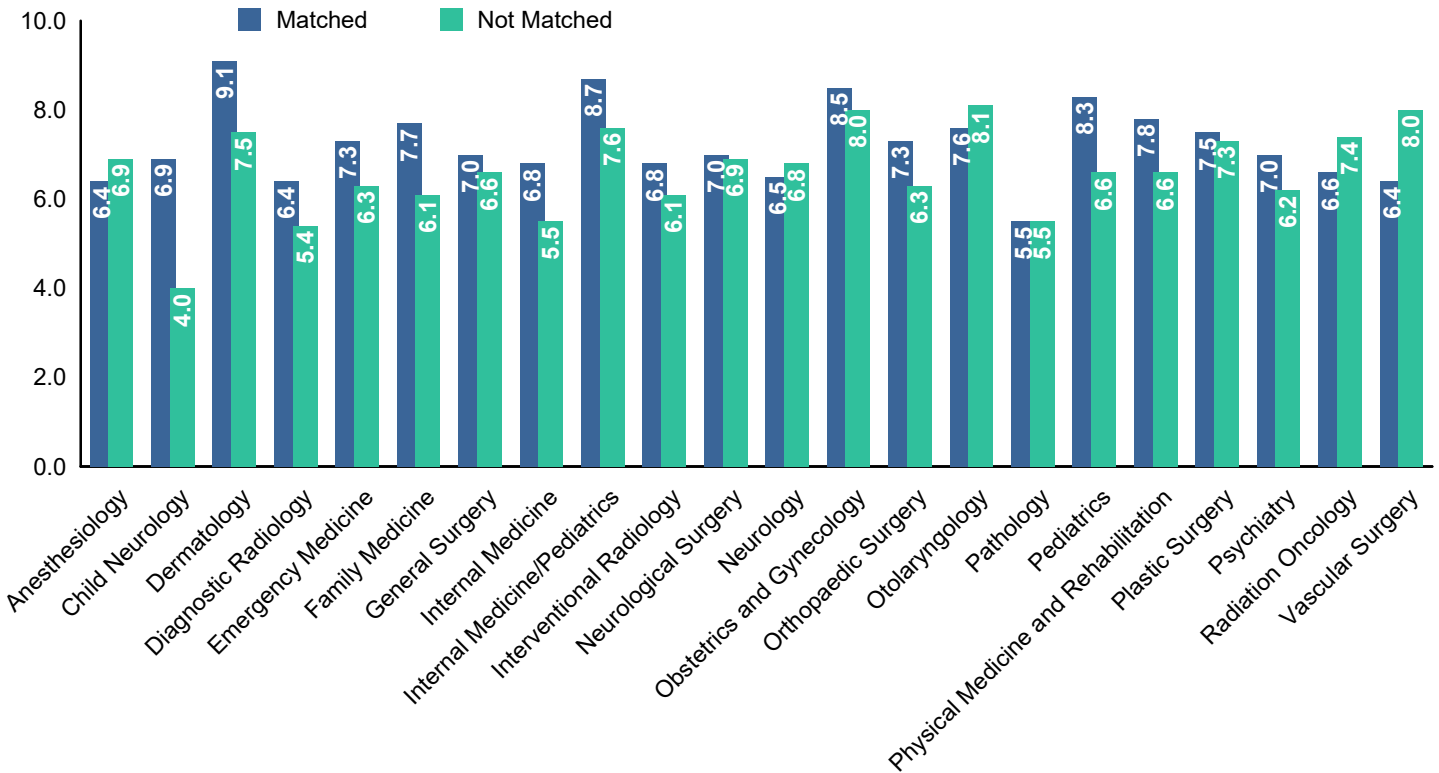


Source: NRMP Data Warehouse

Applicants were asked to list the number of work experiences they reported in their ERAS applications. Chart 10 shows the average number of work experiences by preferred specialty and Match outcome. There is little variation across specialties or within specialties (matched or not matched) for the U.S. seniors. Three-quarters (81.5%) of U.S. seniors reported work experiences, with an average of 3.2 work experiences for all U.S. seniors. Differences in mean number of work experiences are small in most specialties.

**Chart  
11**

**Mean Number of Volunteer Experiences of U.S. Allopathic Seniors  
by Preferred Specialty and Match Status**

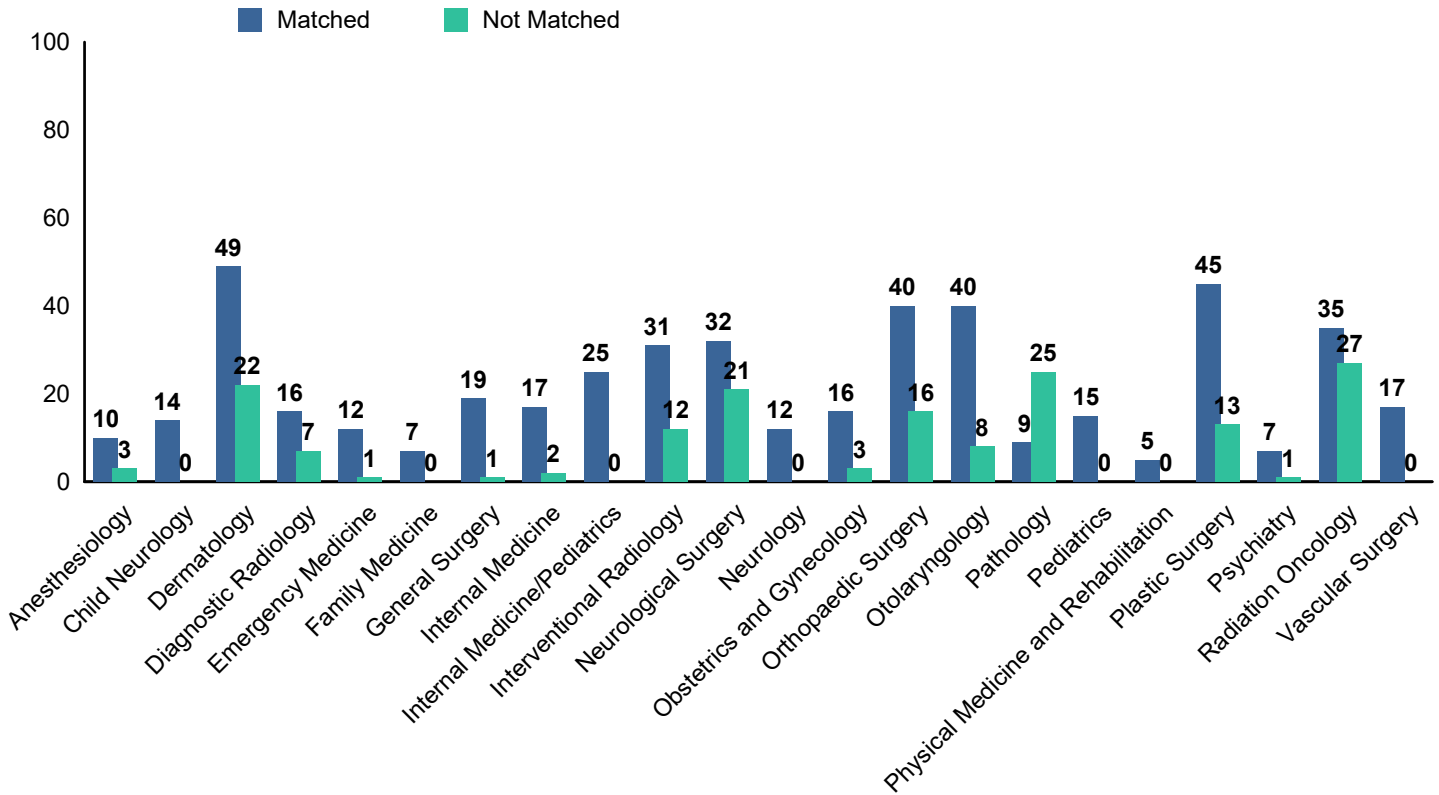


Source: NRMP Data Warehouse

Applicants were asked to list the number of volunteer experiences they reported in their ERAS applications. Chart 11 displays the average number of volunteer experiences by preferred specialty and Match outcome. Matched U.S. seniors in most specialties averaged more volunteer experiences when compared to unmatched seniors in the same specialties, with several averaging at least one more experience. U.S. seniors averaged 7.2 volunteer experiences, with 87.9 percent reporting at least one experience.

**Chart  
12**

**Percentage of U.S. Allopathic Seniors Who Are Members of AOA  
by Preferred Specialty and Match Status**



Source: NRMP Data Warehouse

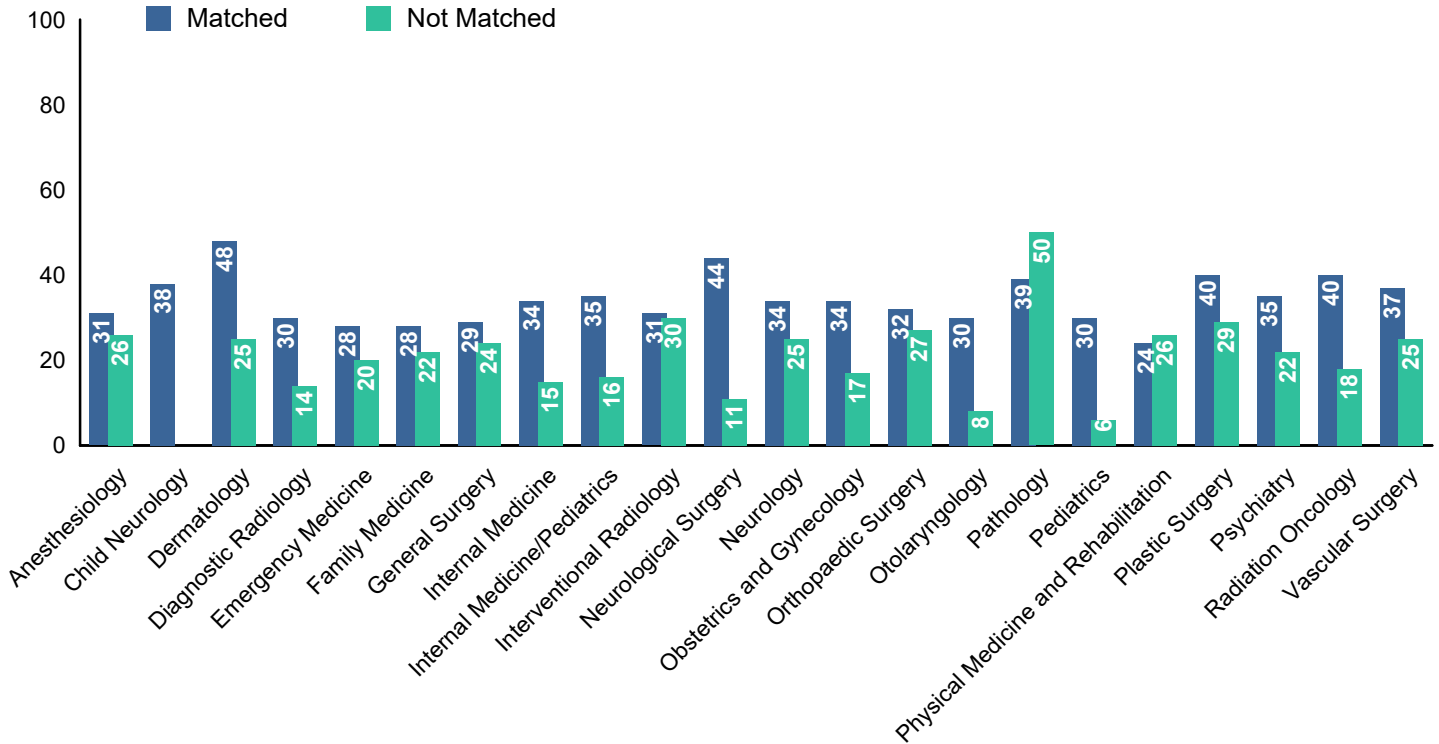
Membership in Alpha Omega Alpha (AOA) Honor Medical Society is an honor reserved for students with high academic achievement. AOA membership is limited to students in medical schools that sponsor an AOA chapter. Most, but not all, allopathic schools in the United States participate. An analysis of its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

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

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

**Chart  
13**

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



Source: NRMP Data Warehouse

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

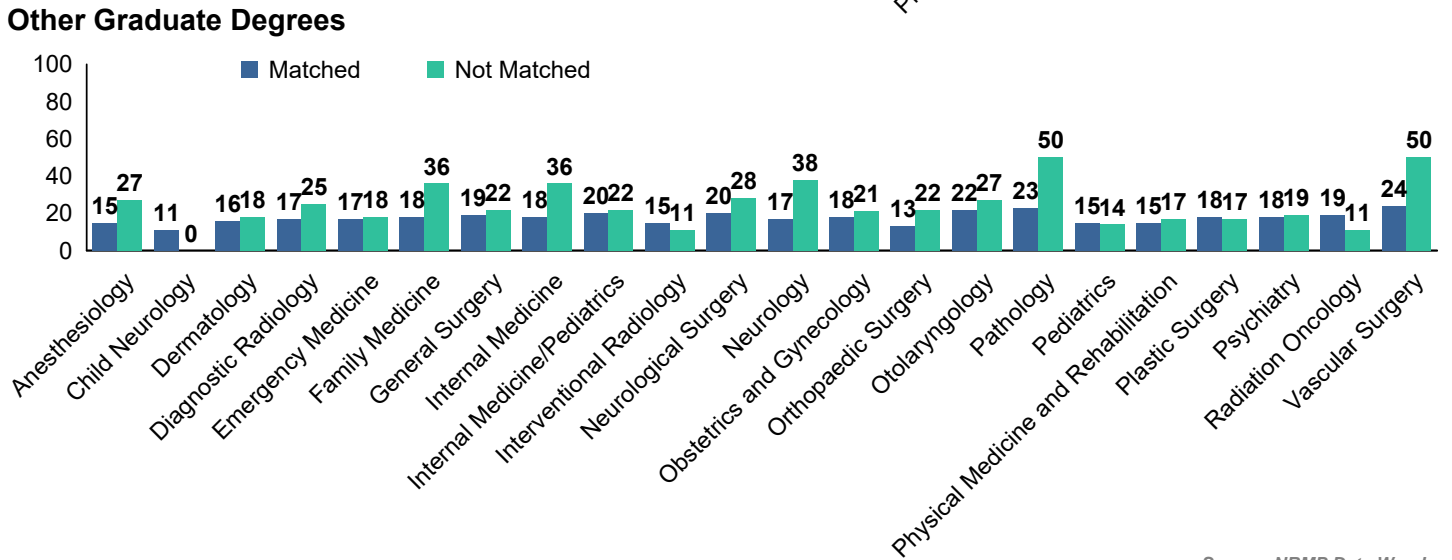
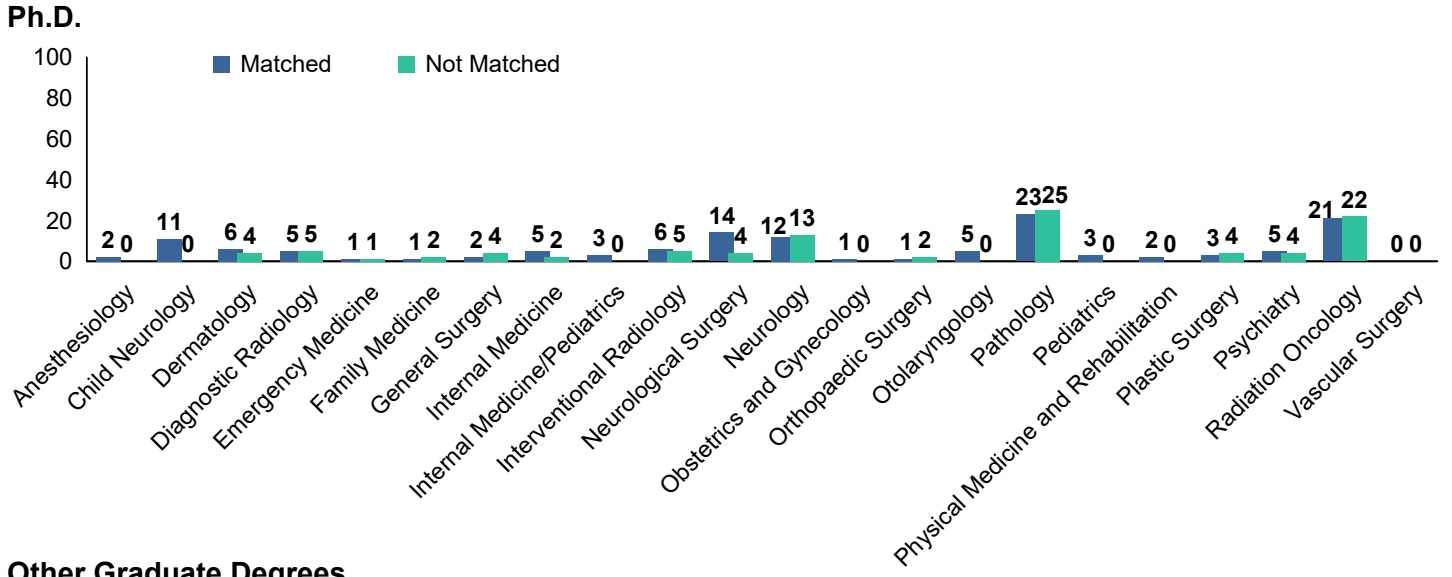
Some program directors may give preference to applicants with research experience or who graduated from a research-intensive medical school. To test that assumption, we obtained data on the amount of NIH grant awards and identified the 40 schools with the highest NIH funding. This measure, by definition, is limited to students of U.S. medical schools. Overall, 31.9 percent of matched and 22.5 percent of unmatched U.S. seniors were graduates of one of the 40 medical schools with the highest NIH funding.

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

Dermatology had the highest percentage of matched U.S. seniors who were graduates of a medical school with the highest NIH funding. Neurological Surgery, Plastic Surgery, and Radiation Oncology also had higher percentages of matched applicants from those schools compared to the other specialties. For all specialties except Pathology and Physical Medicine and Rehabilitation, smaller percentages of seniors who did not match to their preferred specialty were graduates of a medical school with the highest NIH funding compared to seniors who matched.

**Chart  
14**

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



Source: NRMP Data Warehouse

Chart 14 shows by preferred specialty and match status the percentage of U.S. allopathic seniors who have a Ph.D. and/or other graduate degrees. Pathology, Radiation Oncology, Neurological Surgery, Neurology, and Child Neurology had the highest percentages of matched U.S. seniors with a Ph.D. degree. For most specialties, the percentage of unmatched U.S. seniors who have other graduate degrees was higher than that of their matched counterparts.

---

**AN** Anesthesiology

**Table  
AN-1****Summary Statistics on U.S. Allopathic Seniors  
Anesthesiology**

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

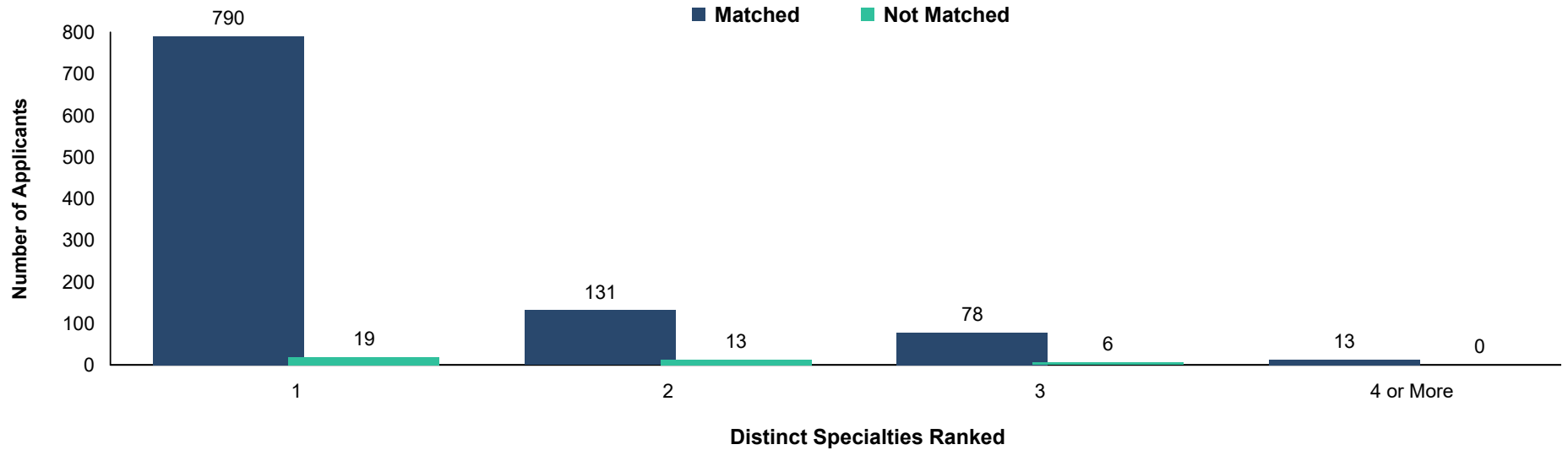
Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

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



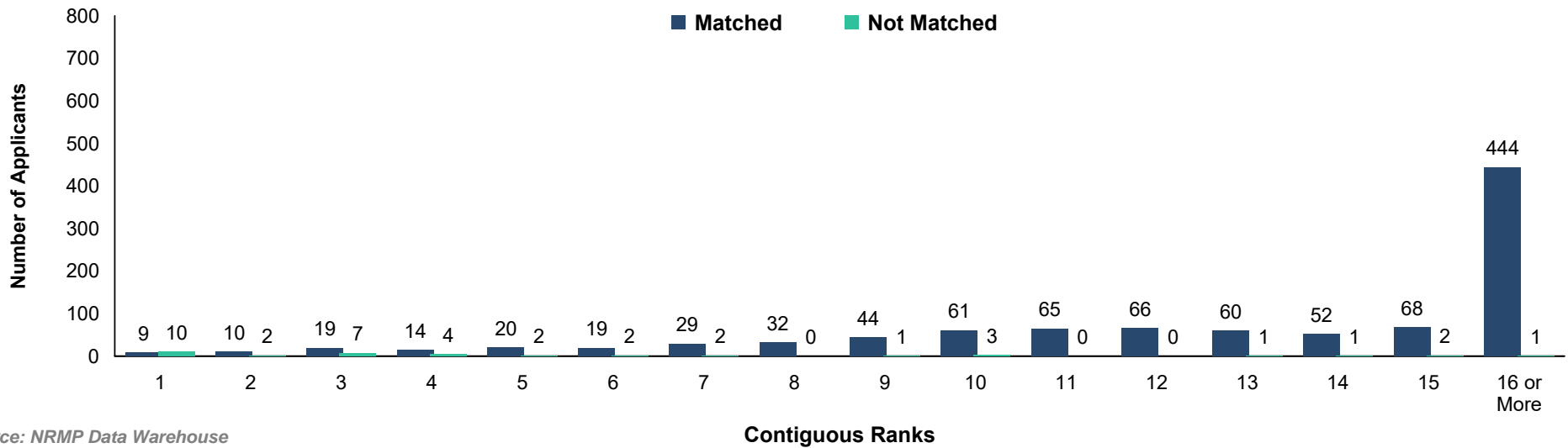
**Chart AN-1**

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



**Chart AN-2**

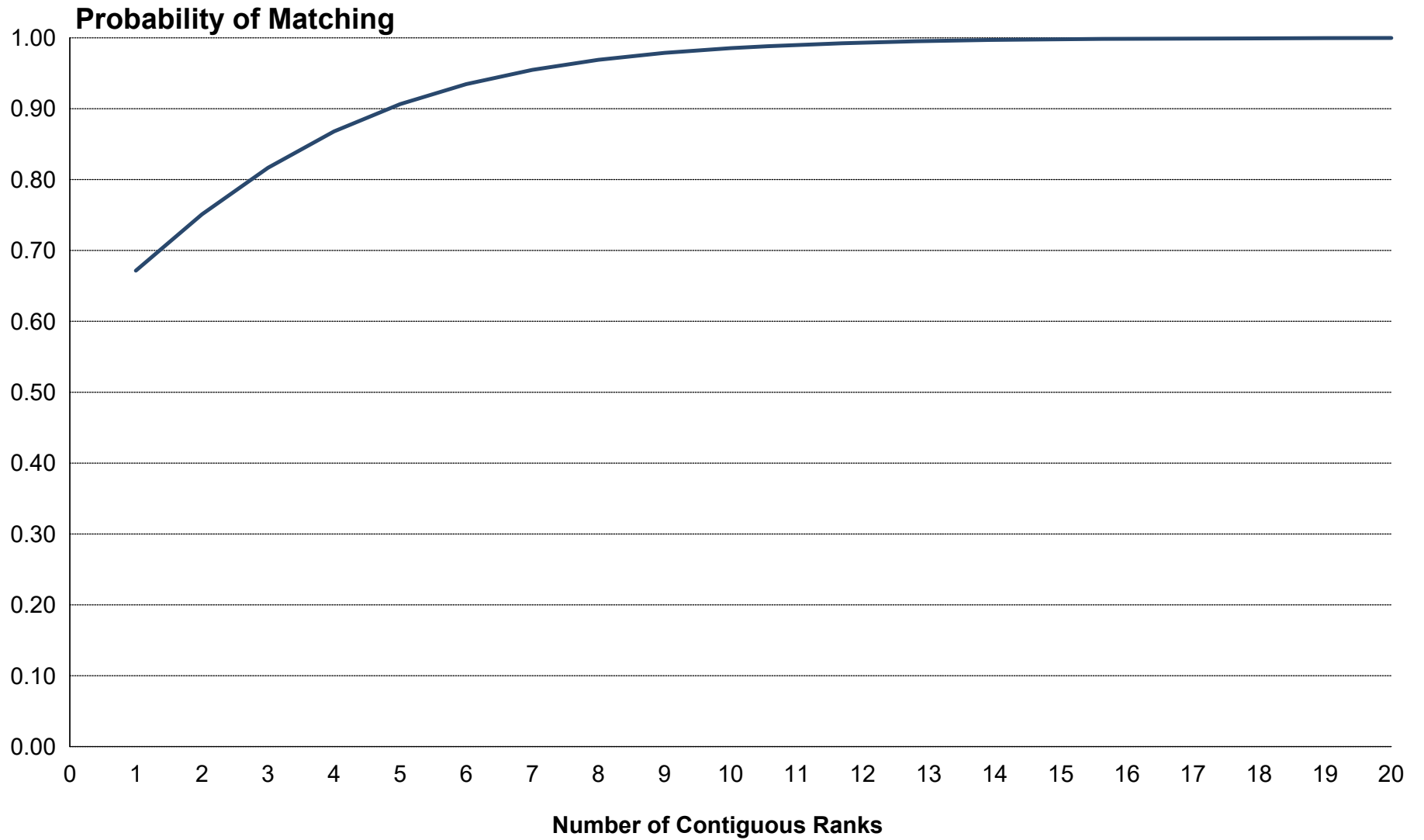
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Anesthesiology**



Source: NRMP Data Warehouse

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

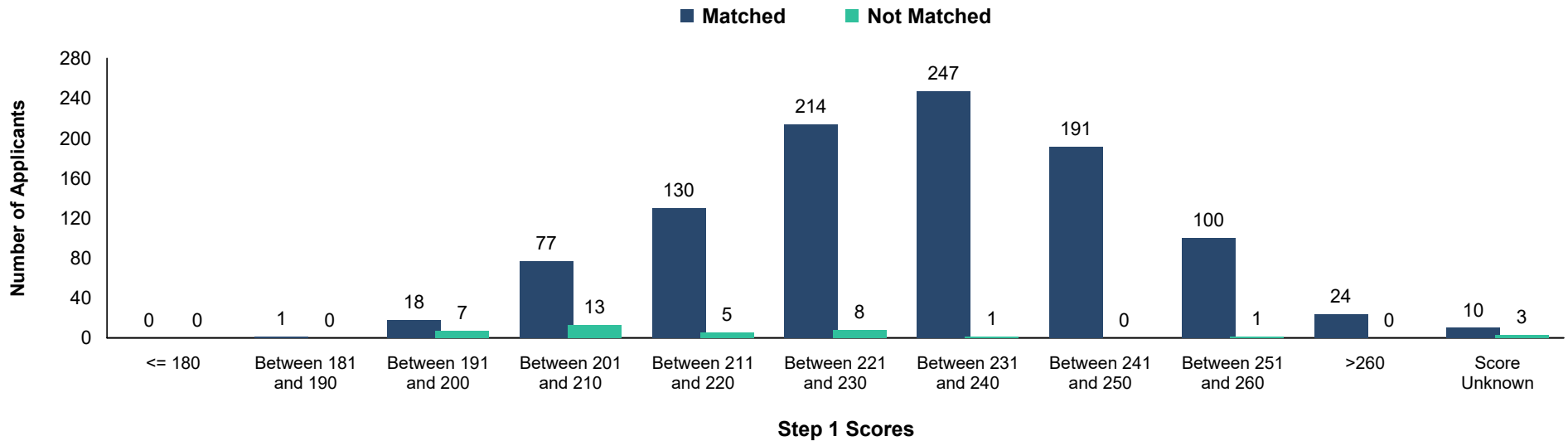
*Anesthesiology*



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

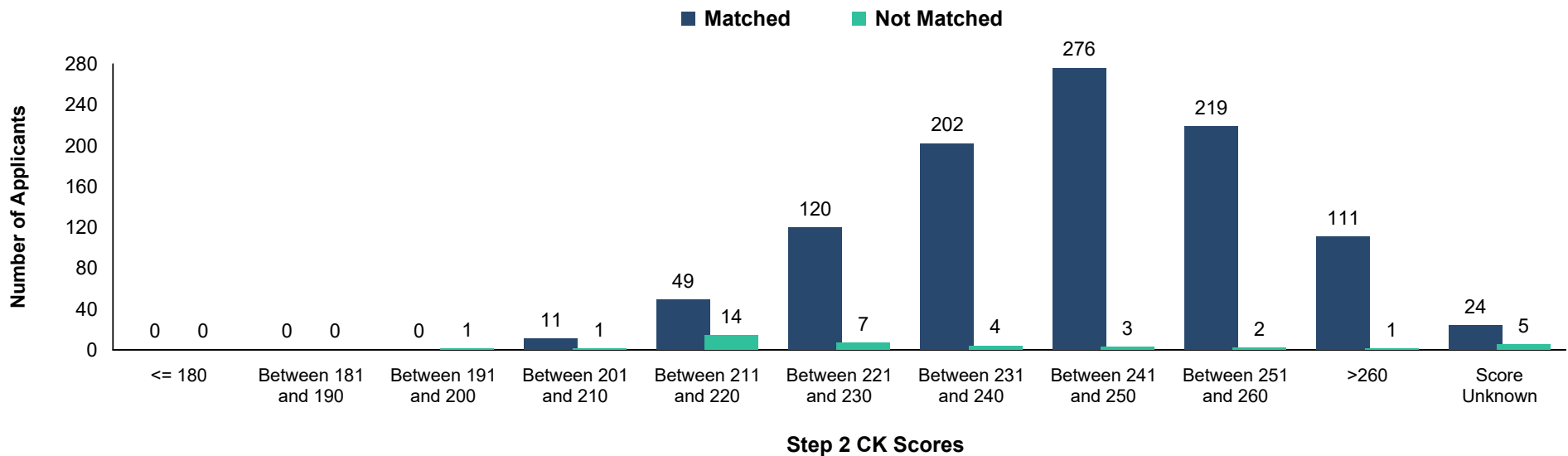
**Chart AN-3**

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



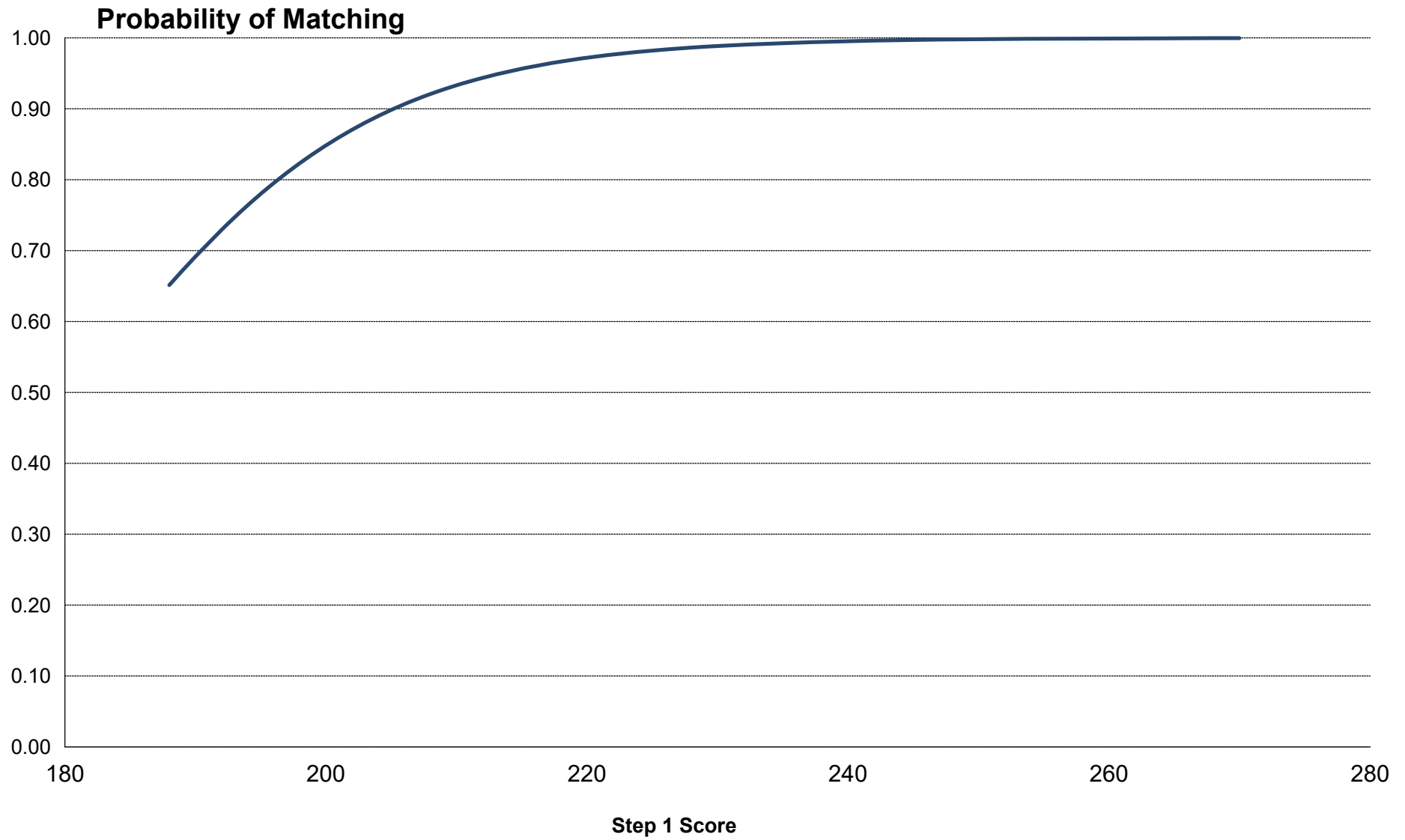
**Chart AN-4**

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



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

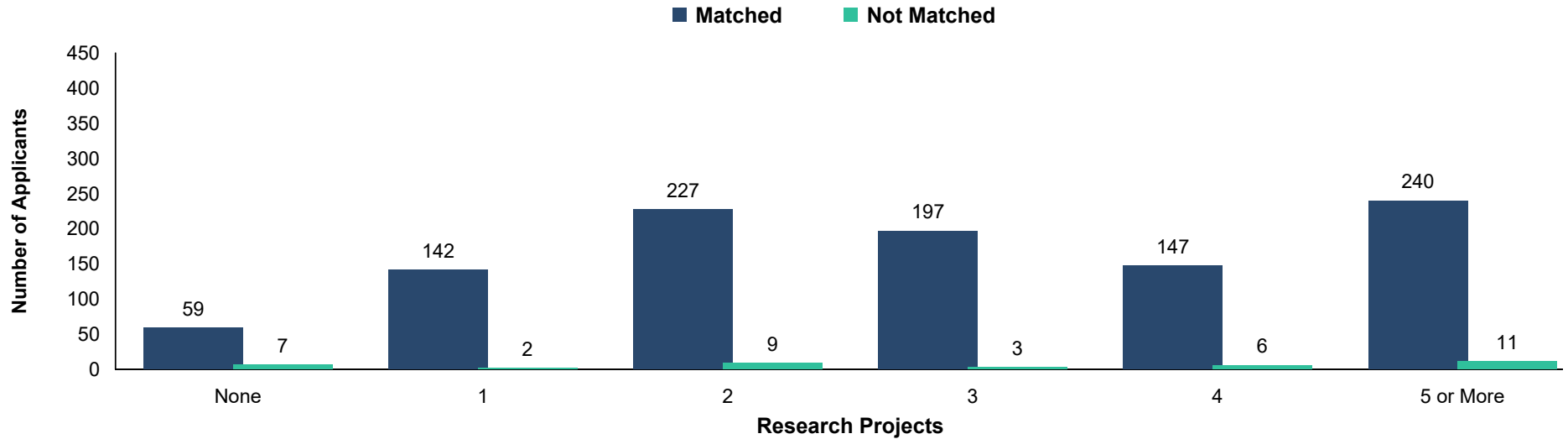
## Anesthesiology



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

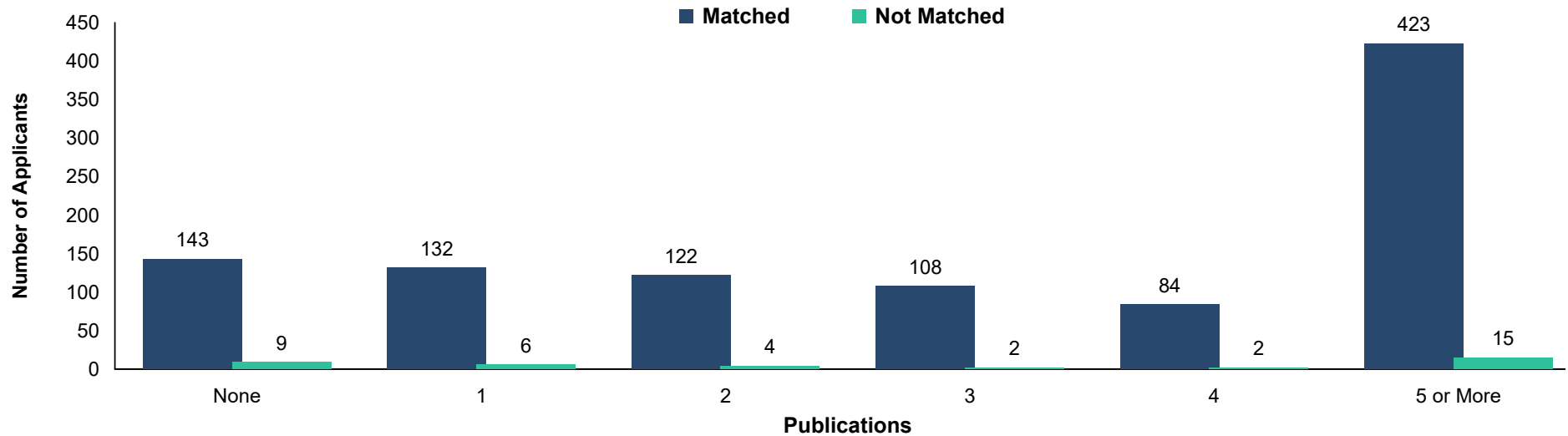
**Chart AN-5**

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



**Chart AN-6**

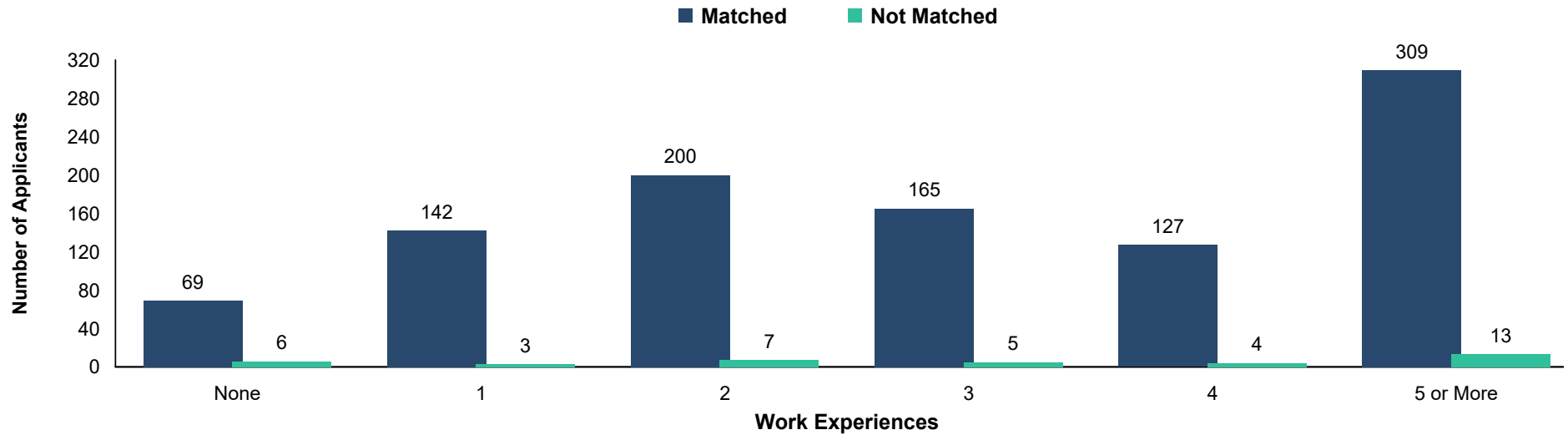
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Anesthesiology**



Source: NRMP Data Warehouse

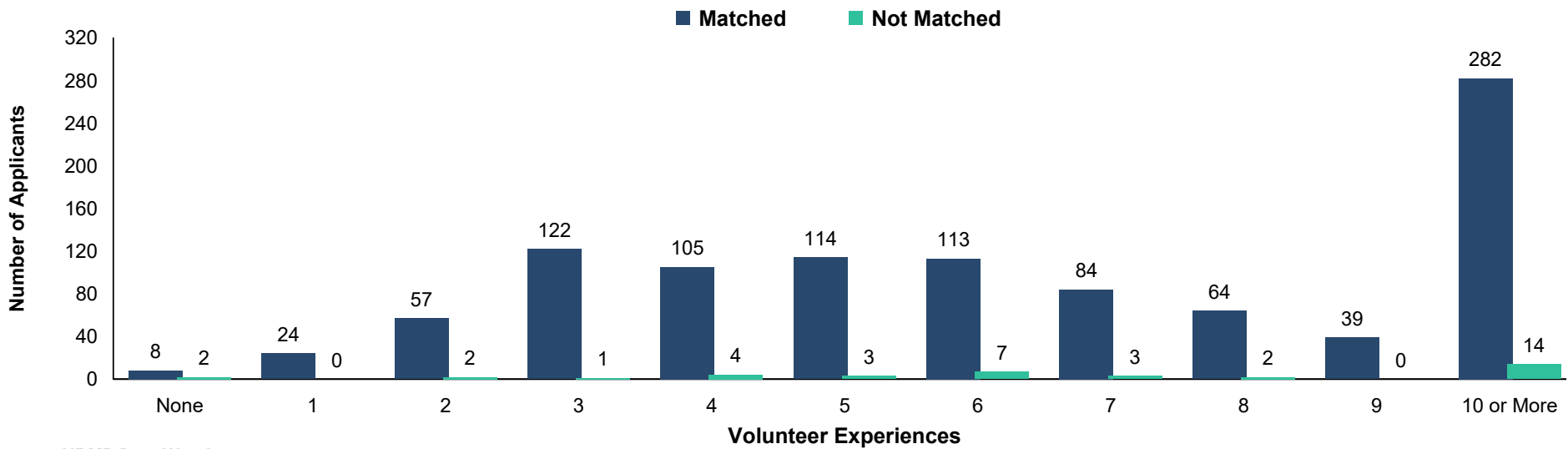
**Chart AN-7**

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



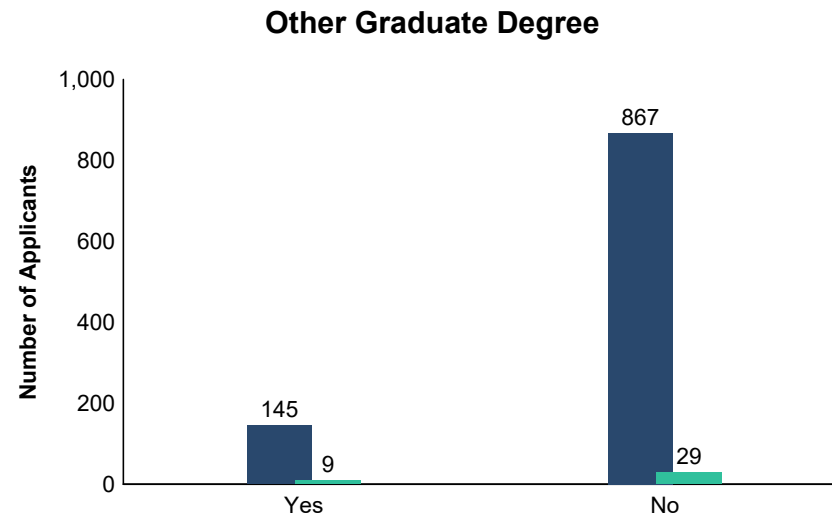
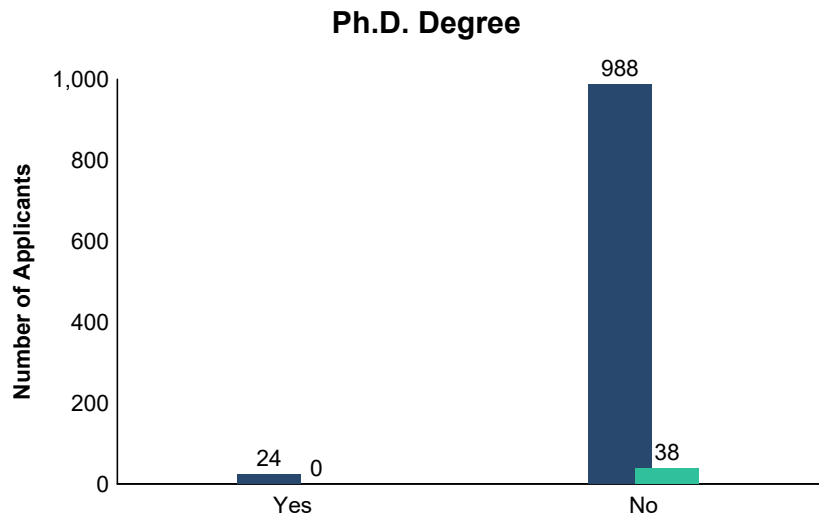
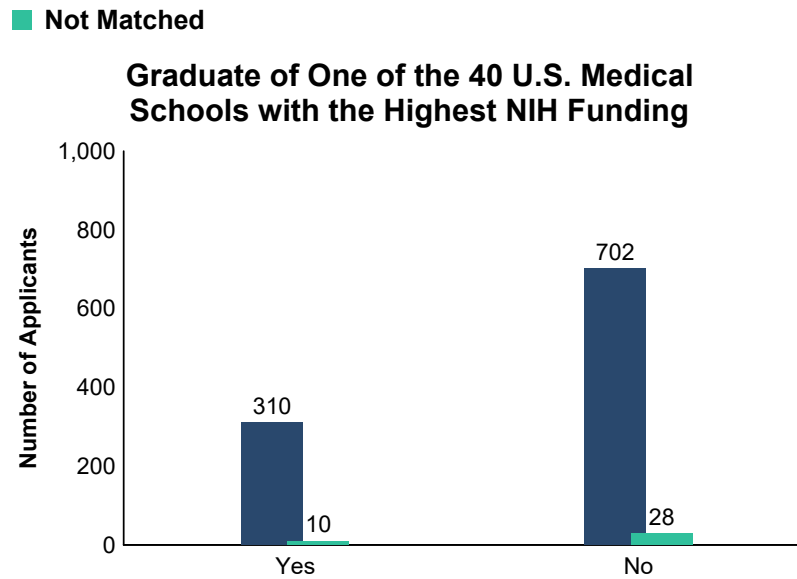
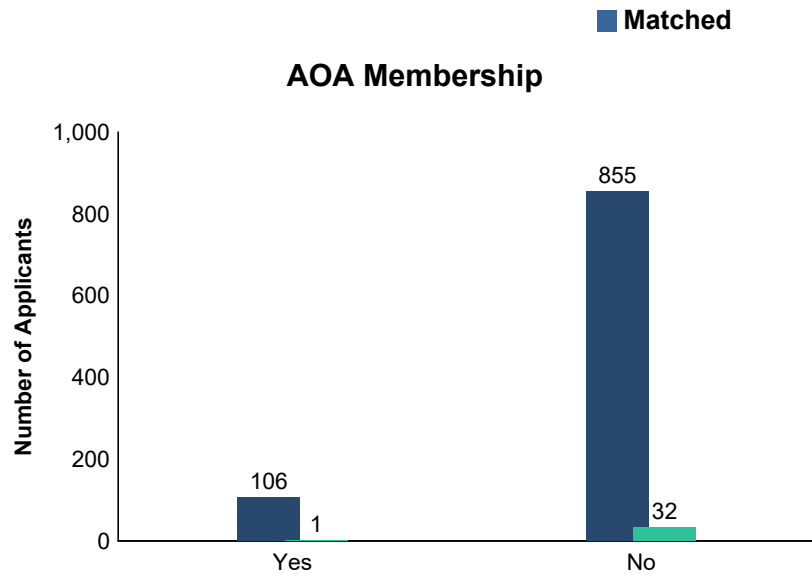
**Chart AN-8**

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



Source: NRMP Data Warehouse

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



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

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**CN** Child Neurology



## Summary Statistics on U.S. Allopathic Seniors

### Child Neurology

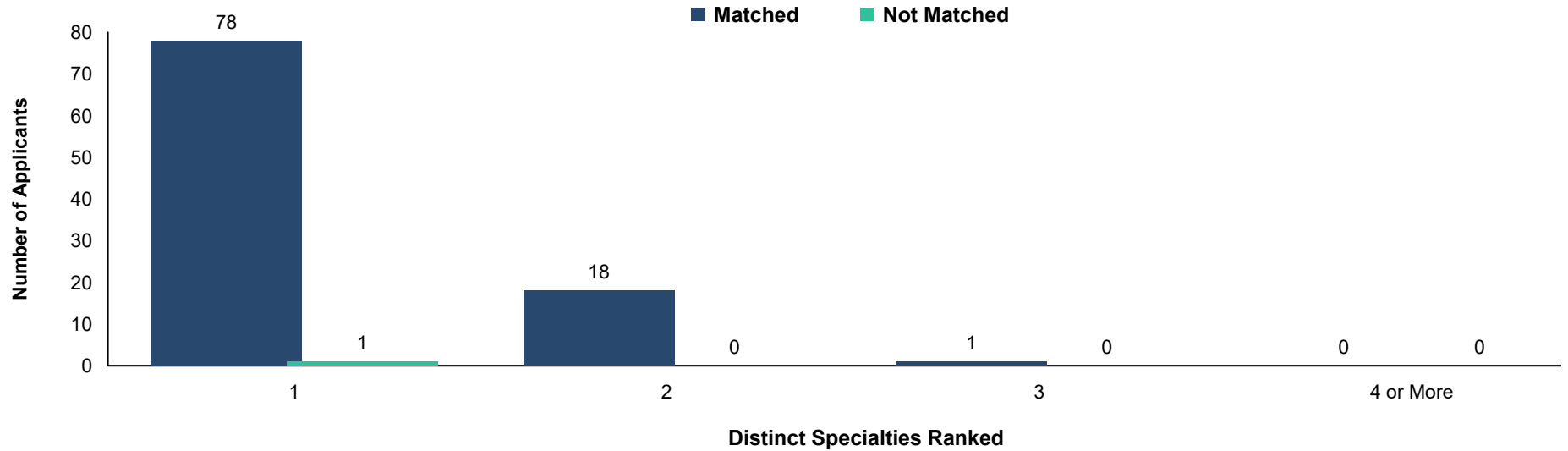
Measure	Matched (n=97)	Unmatched (n=1)
1. Mean number of contiguous ranks	11.8	8.0
2. Mean number of distinct specialties ranked	1.2	1.0
3. Mean USMLE Step 1 score	233	211
4. Mean USMLE Step 2 score	246	234
5. Mean number of research experiences	3.3	3.0
6. Mean number of abstracts, presentations, and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

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

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

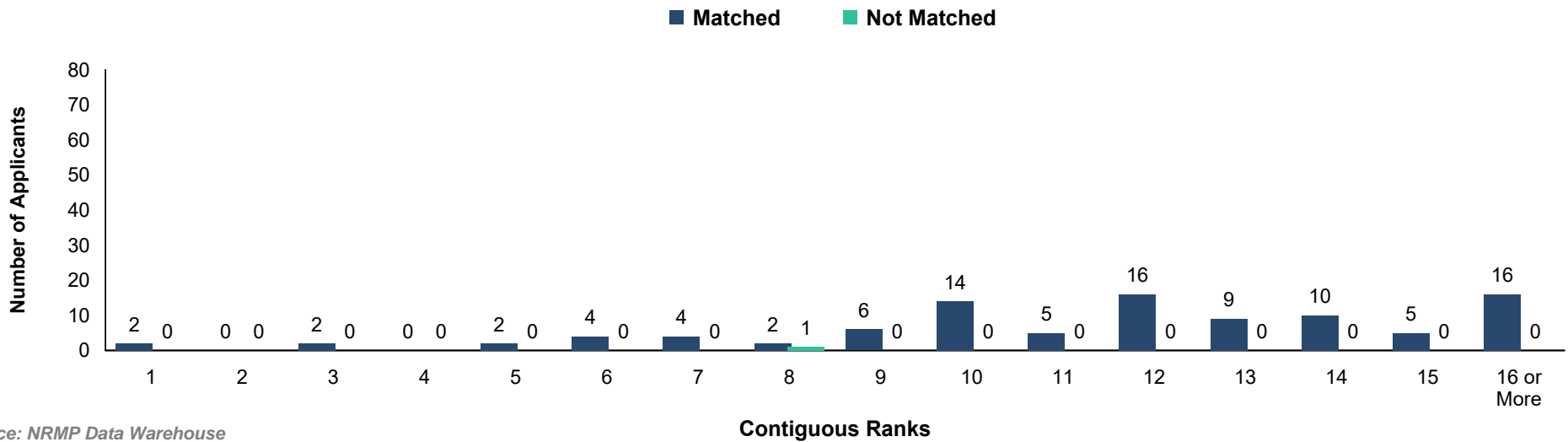
**Chart  
CN-1**

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



**Chart  
CN-2**

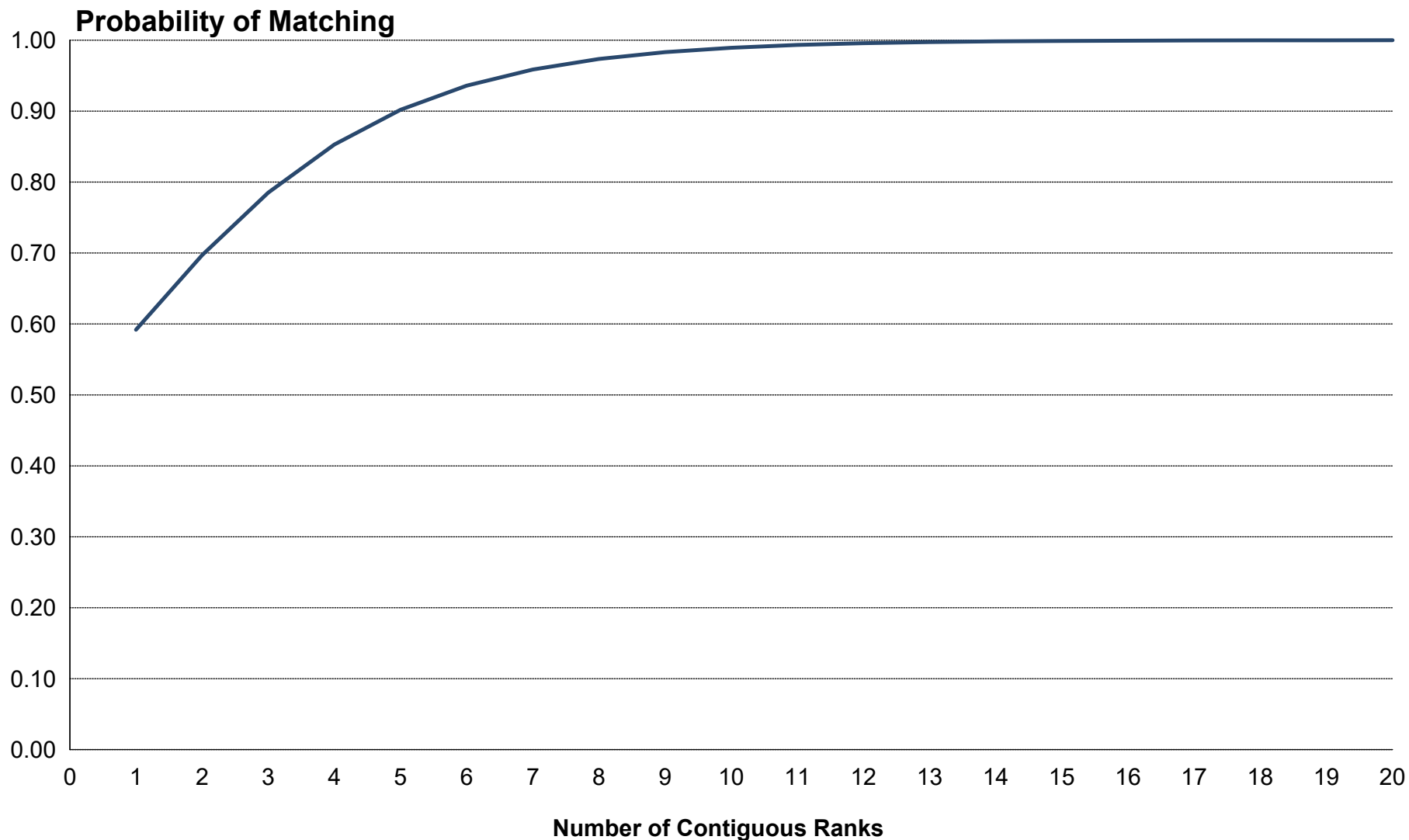
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Child Neurology***



Source: NRMP Data Warehouse

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

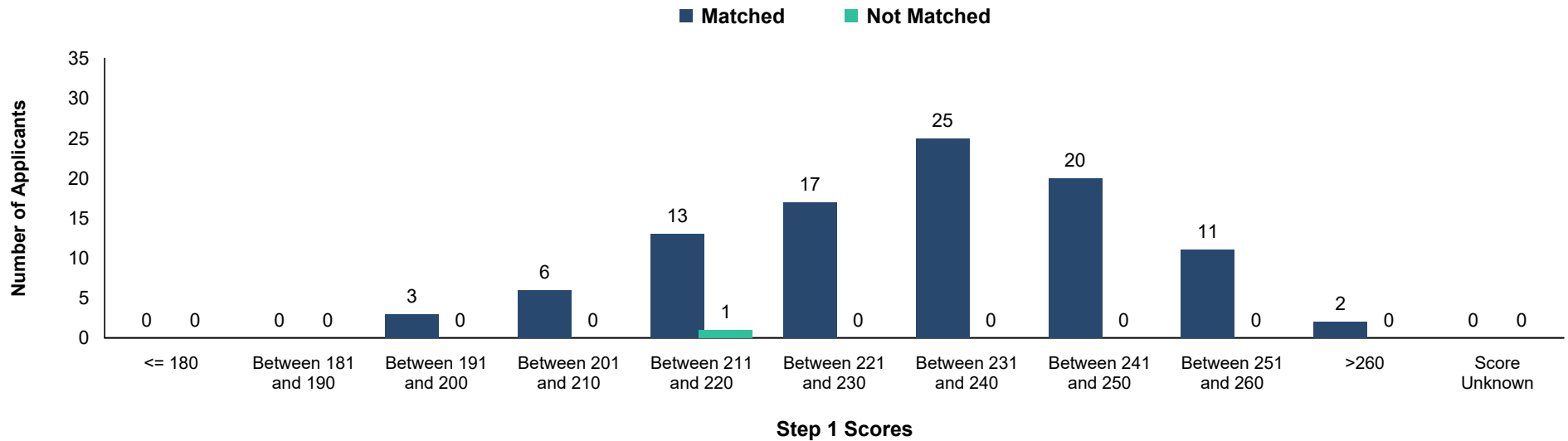
*Child Neurology*



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

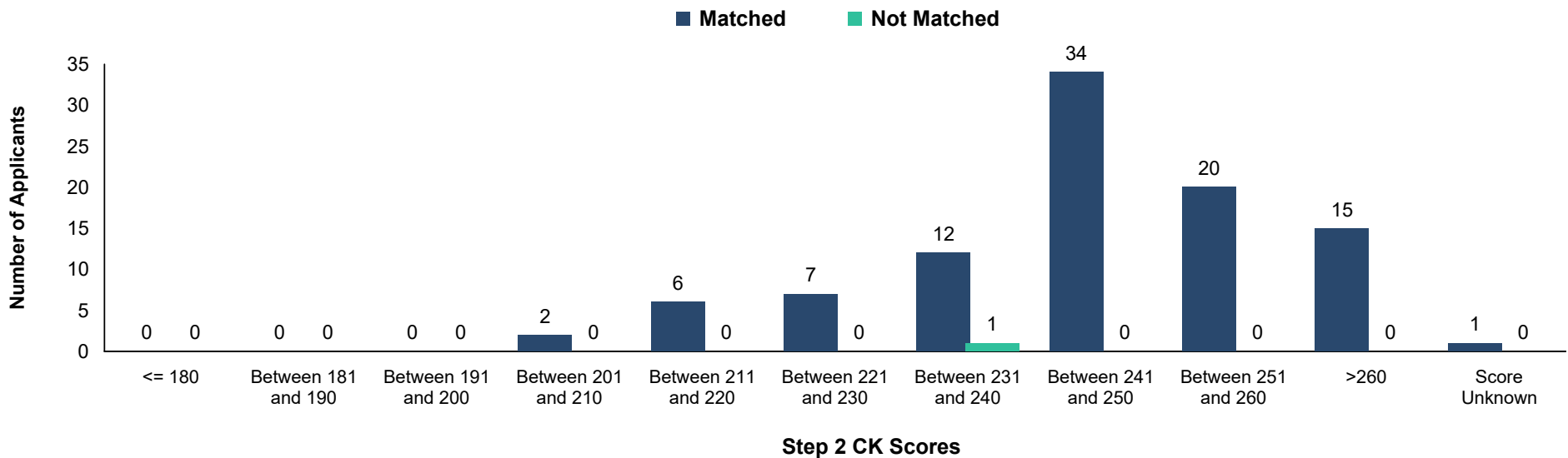
**Chart  
CN-3**

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

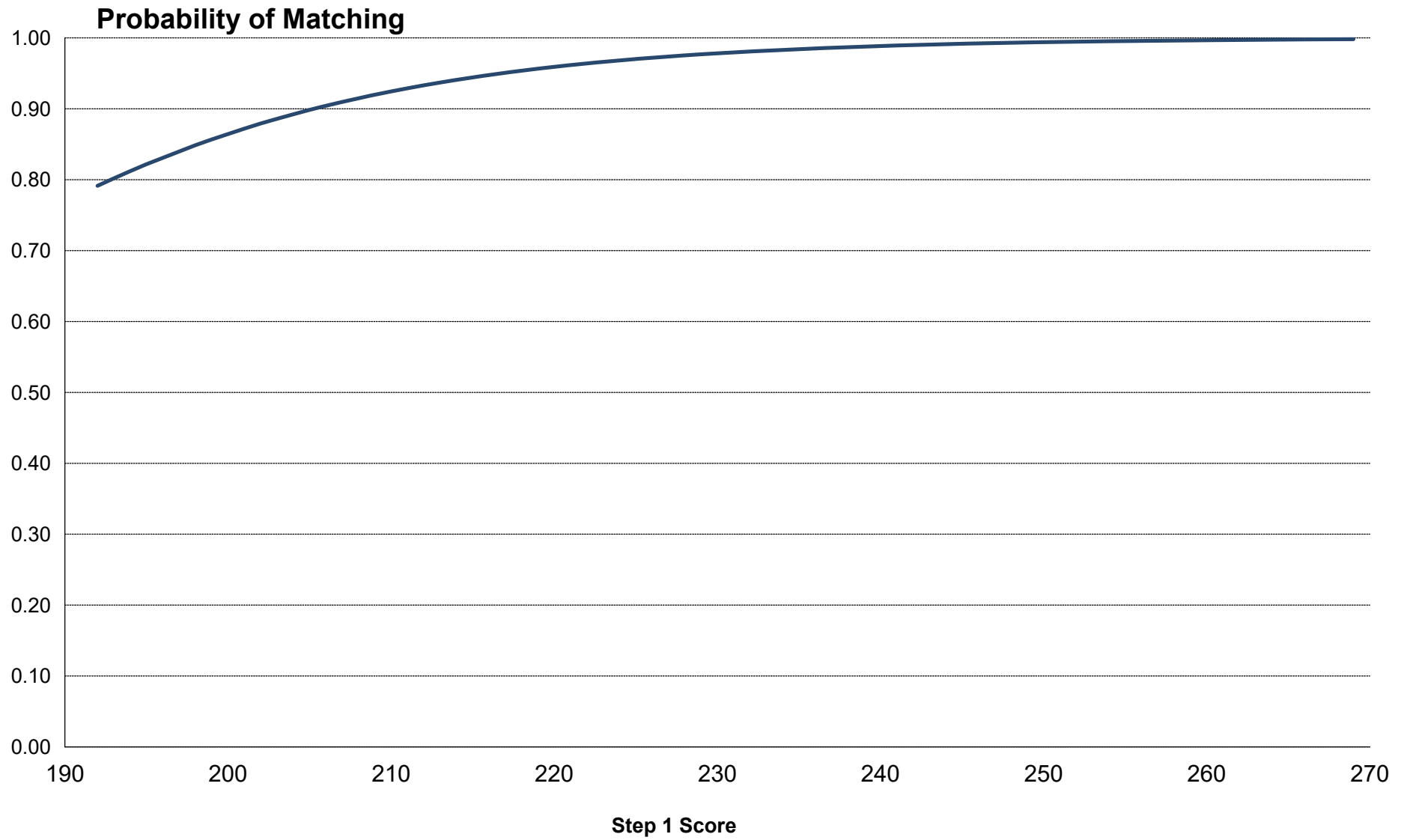


**Chart  
CN-4**

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



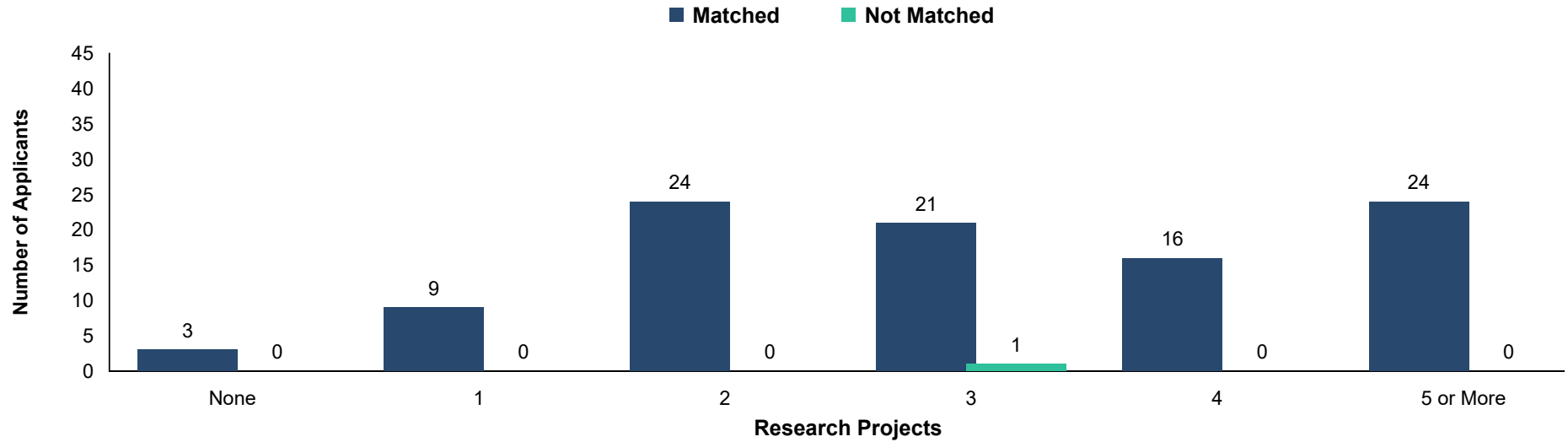
## Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *Child Neurology*



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

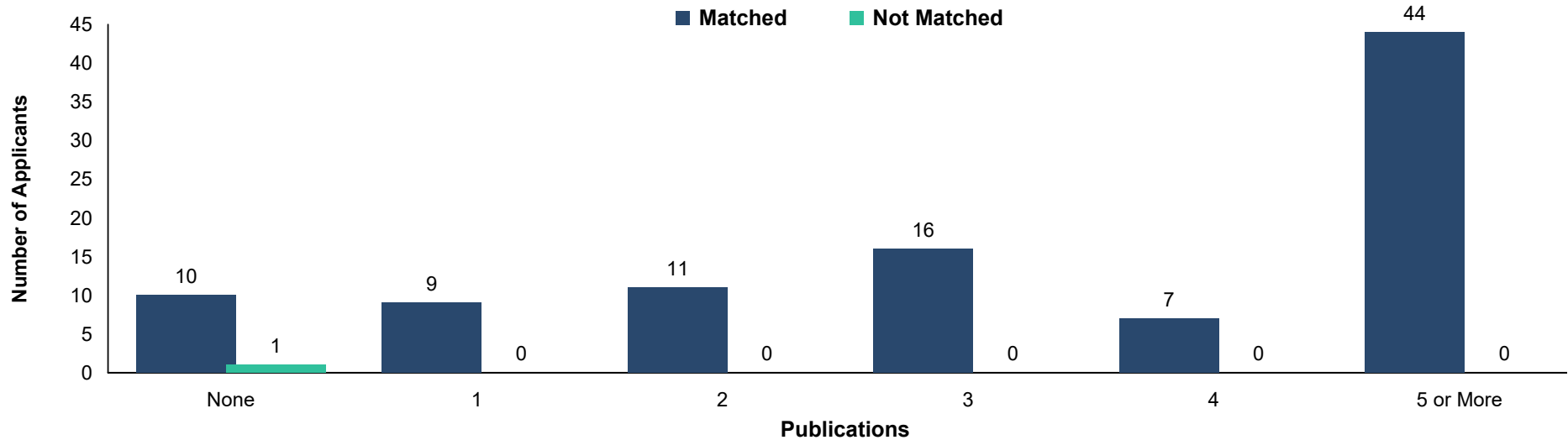
**Chart  
CN-5**

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



**Chart  
CN-6**

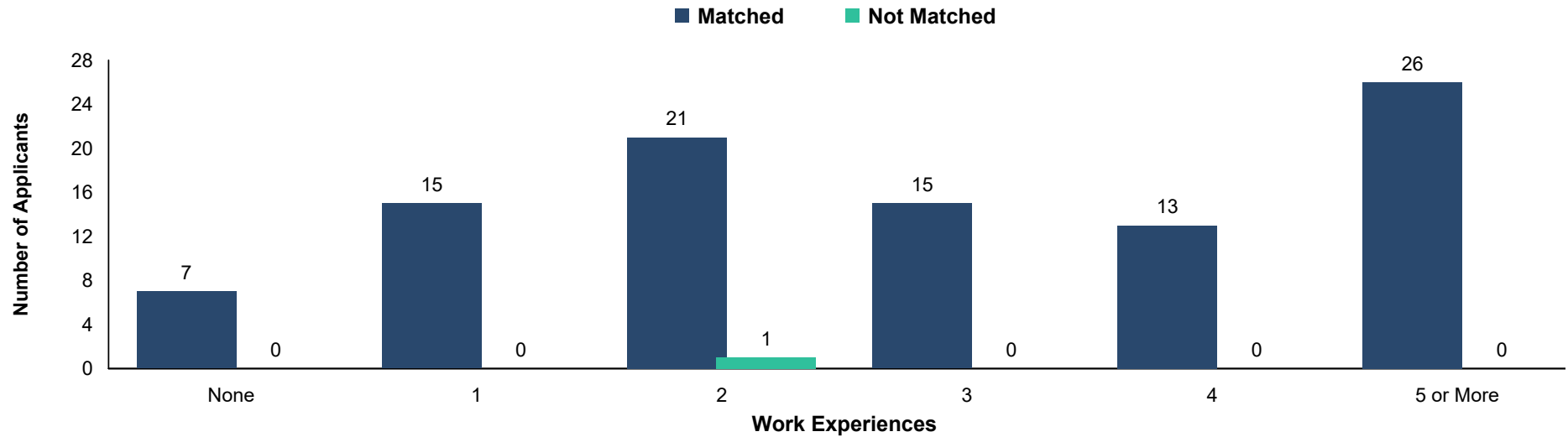
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Child Neurology**



Source: NRMP Data Warehouse

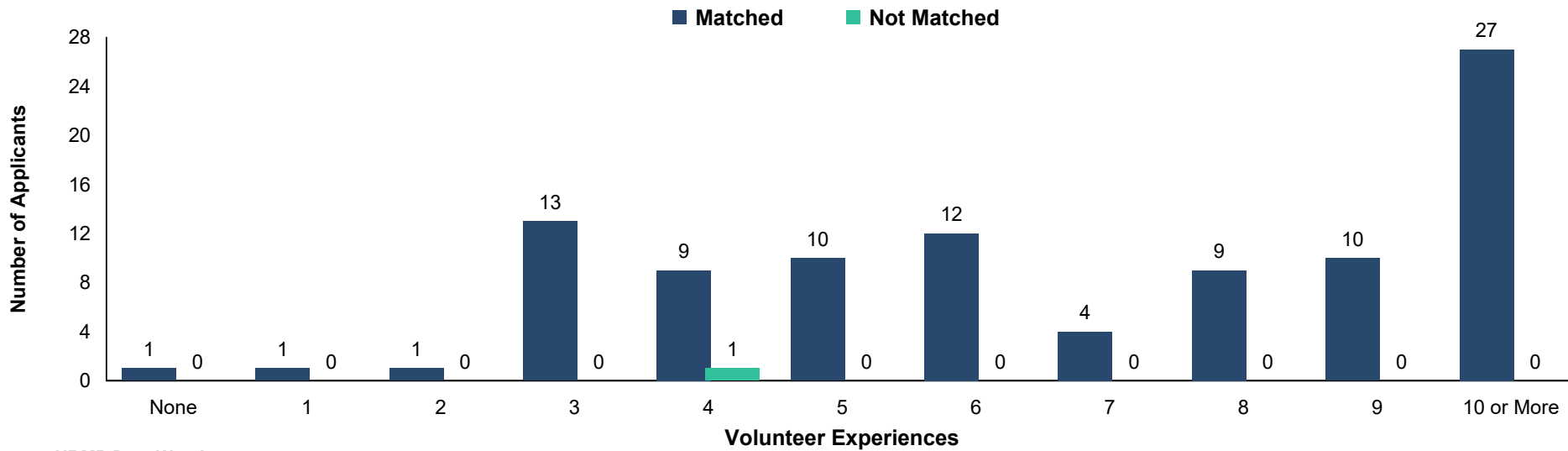
**Chart  
CN-7**

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

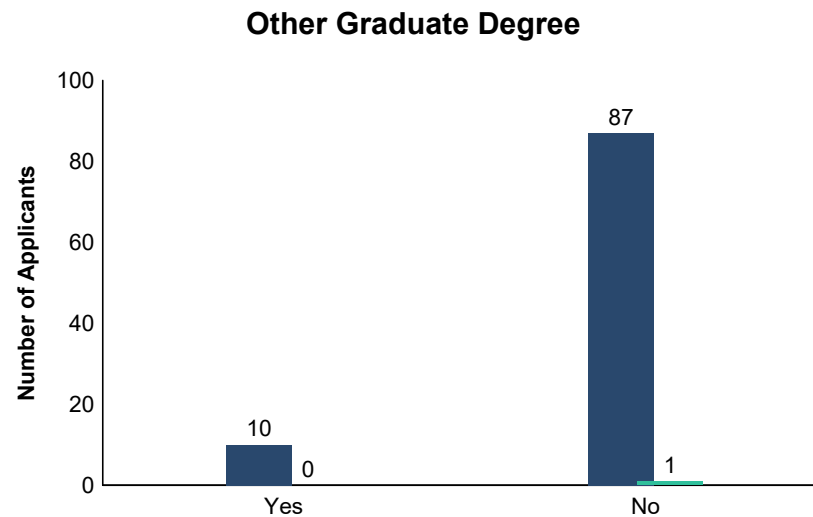
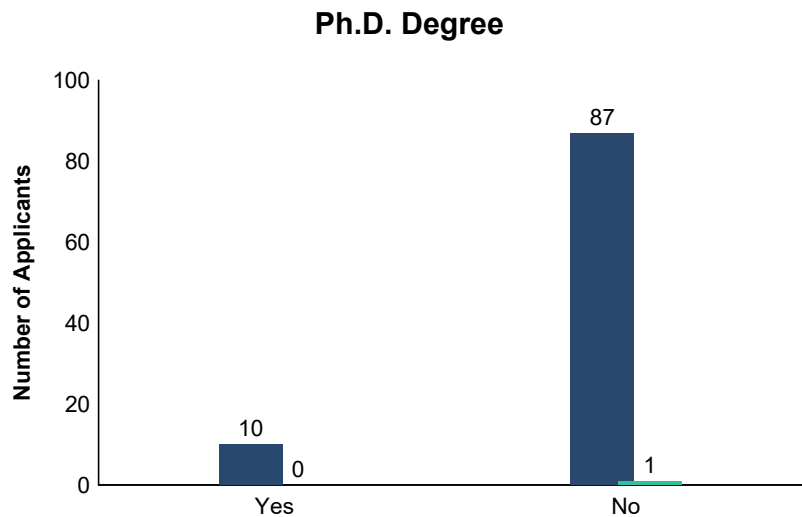
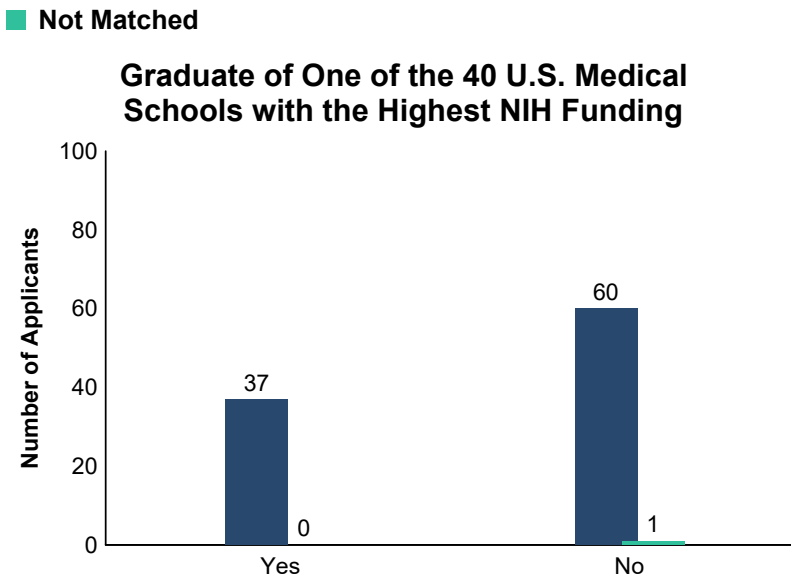
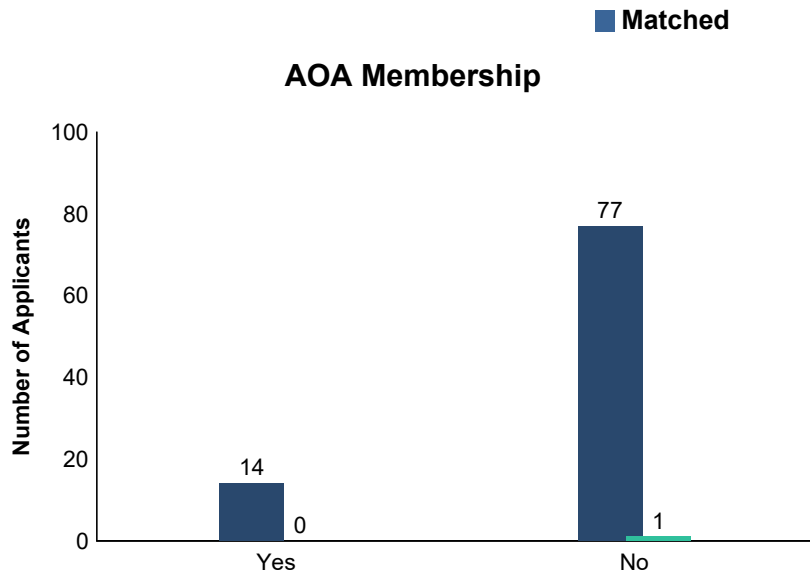


**Chart  
CN-8**

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



Source: NRMP Data Warehouse



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



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**DM** Dermatology

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

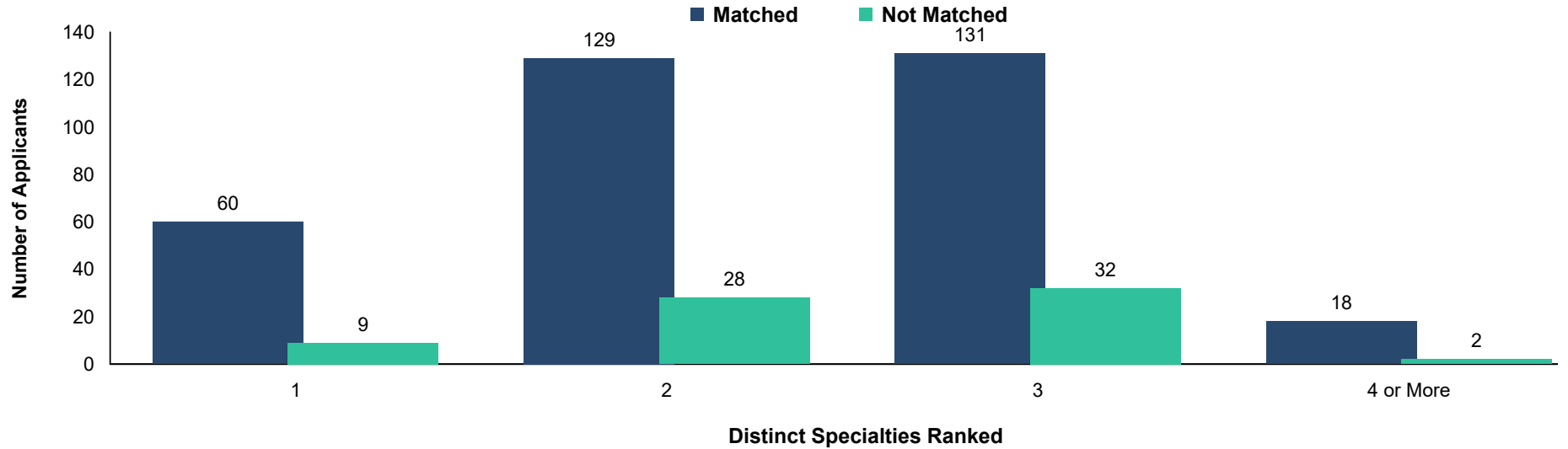
Measure	Matched (n=340)	Unmatched (n=72)
1. Mean number of contiguous ranks	9.3	4.3
2. Mean number of distinct specialties ranked	2.3	2.4
3. Mean USMLE Step 1 score	249	241
4. Mean USMLE Step 2 score	256	249
5. Mean number of research experiences	5.2	4.8
6. Mean number of abstracts, presentations, and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

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

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

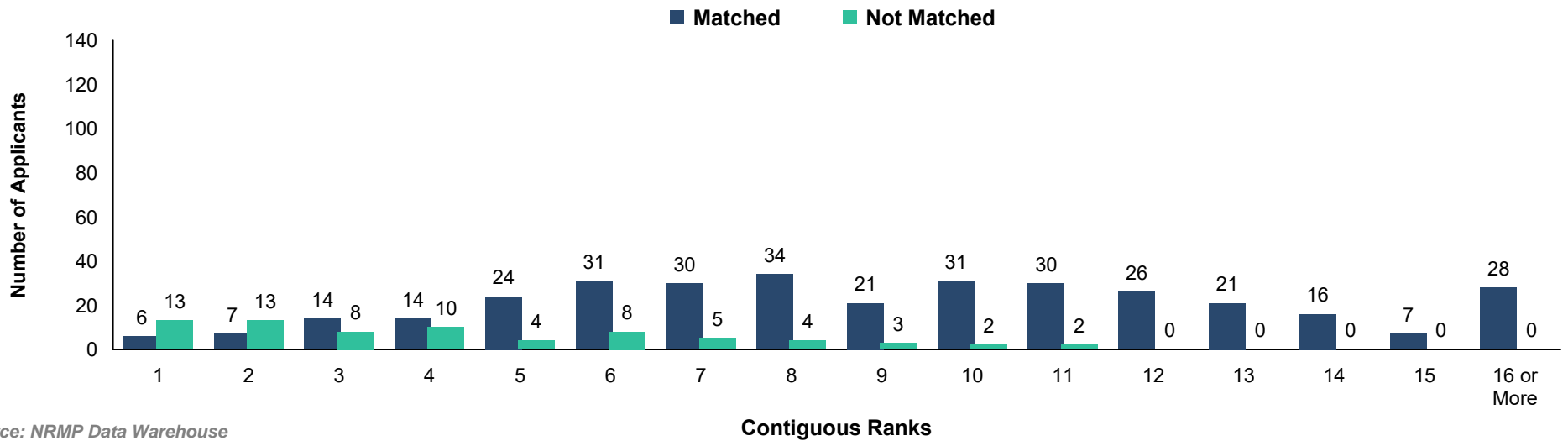
**Chart  
DM-1**

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



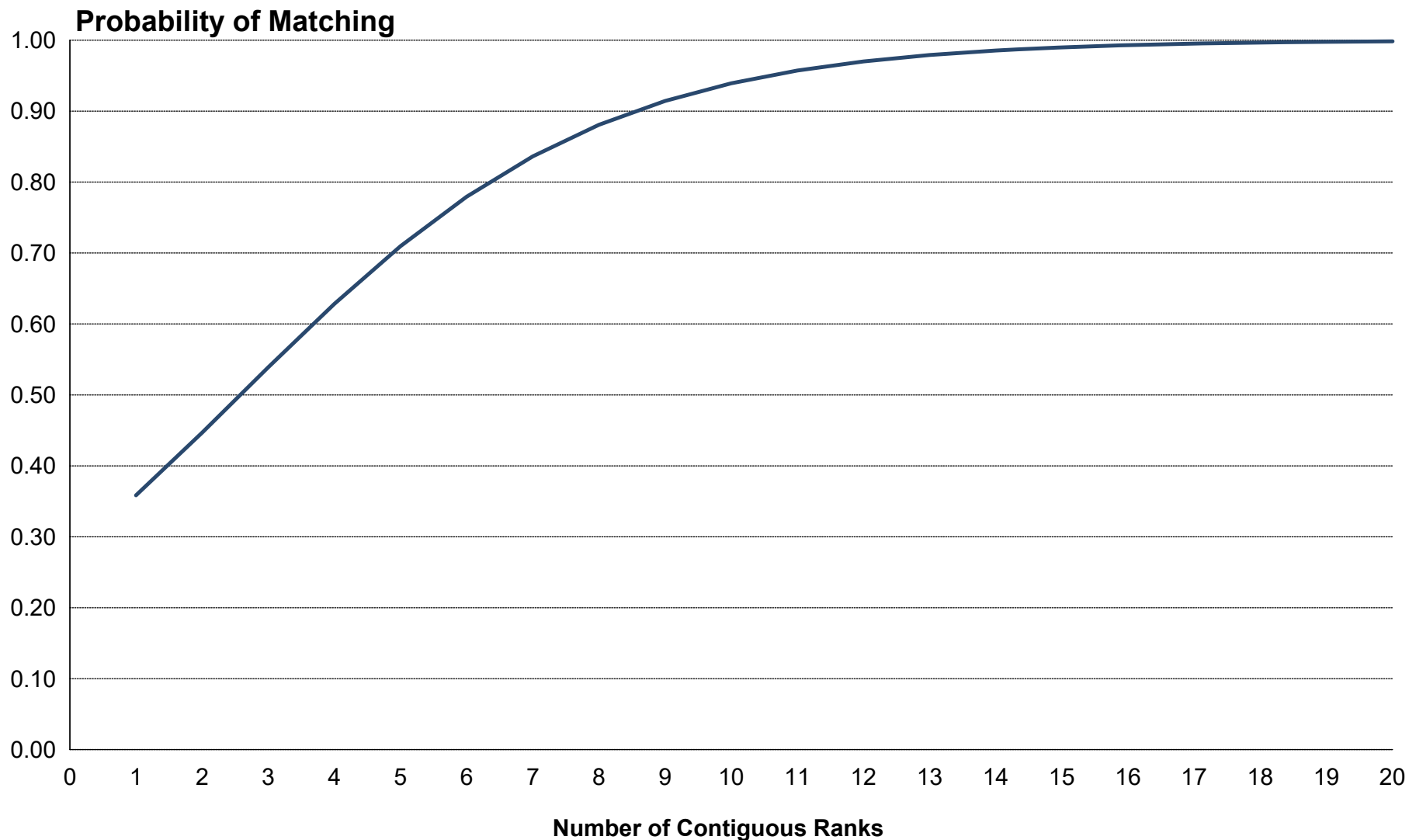
**Chart  
DM-2**

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



Source: NRMP Data Warehouse

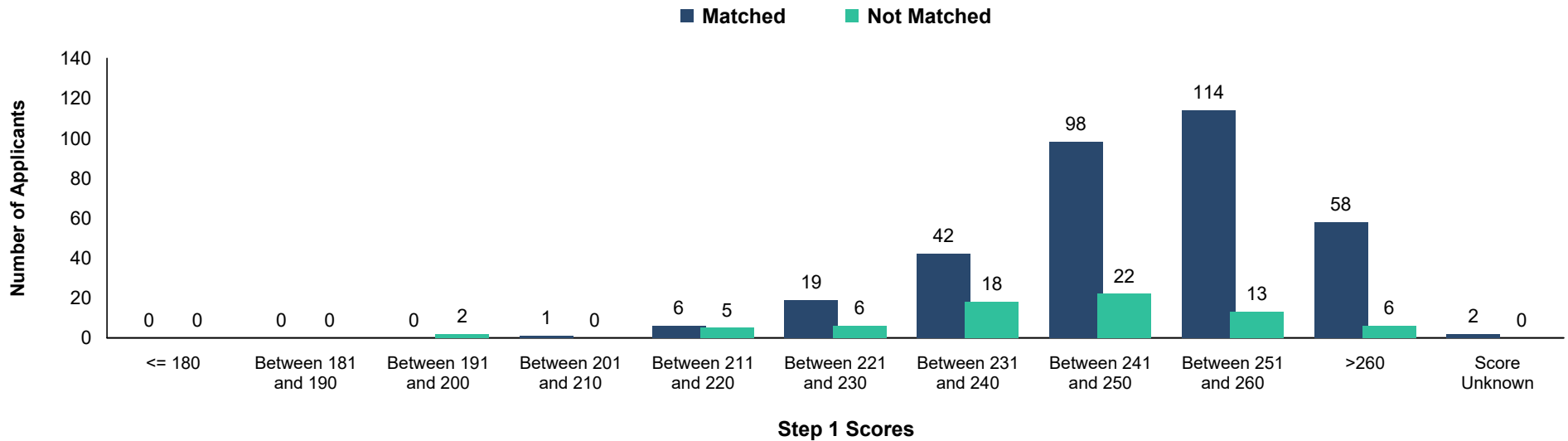
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks**  
*Dermatology*



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

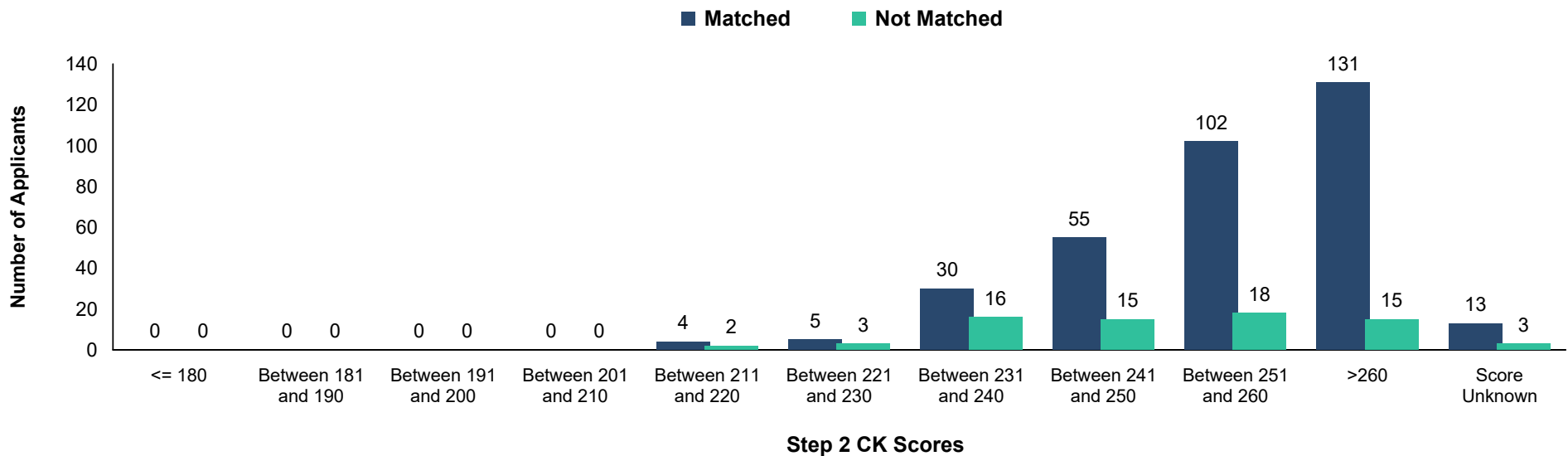
**Chart  
DM-3**

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



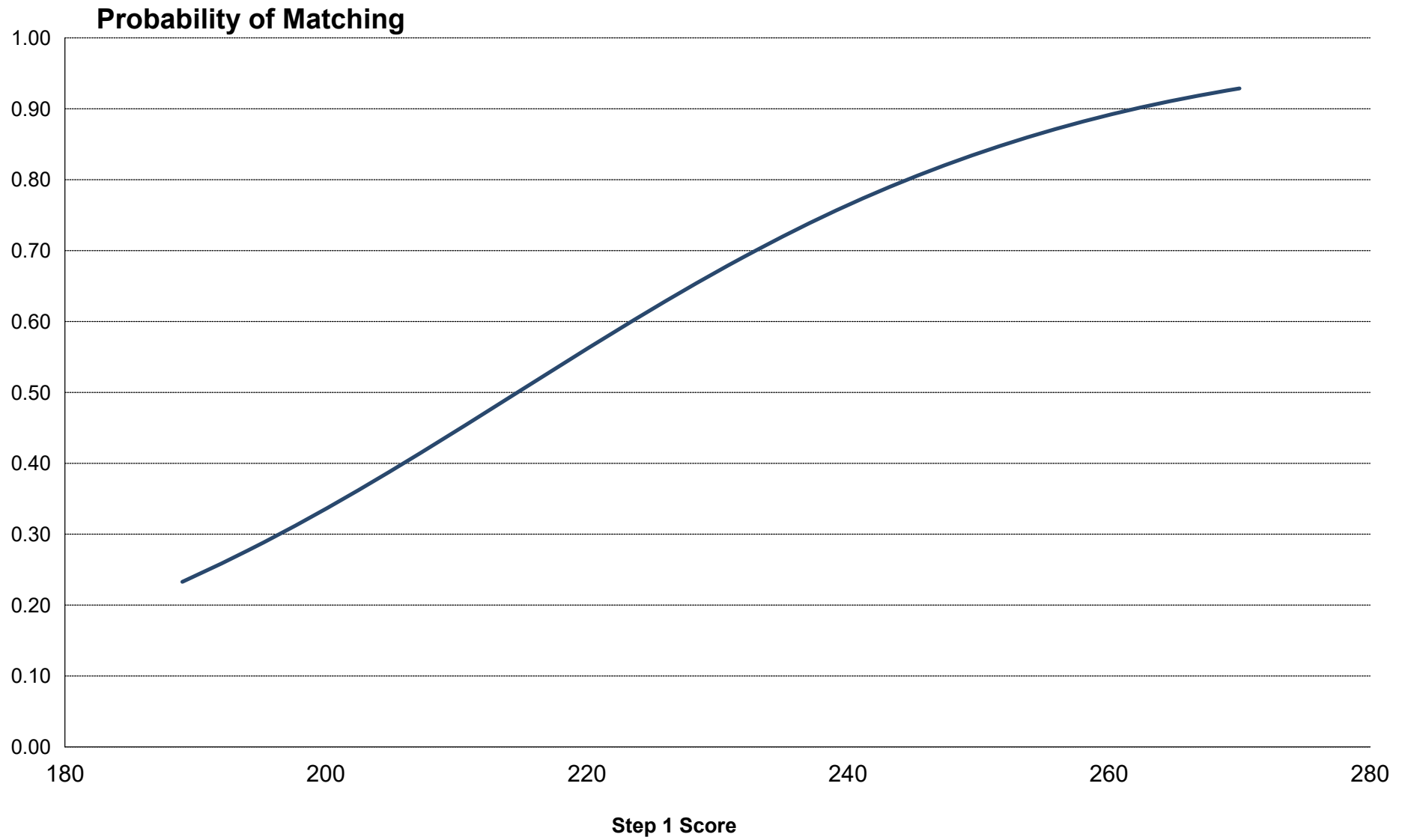
**Chart  
DM-4**

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



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

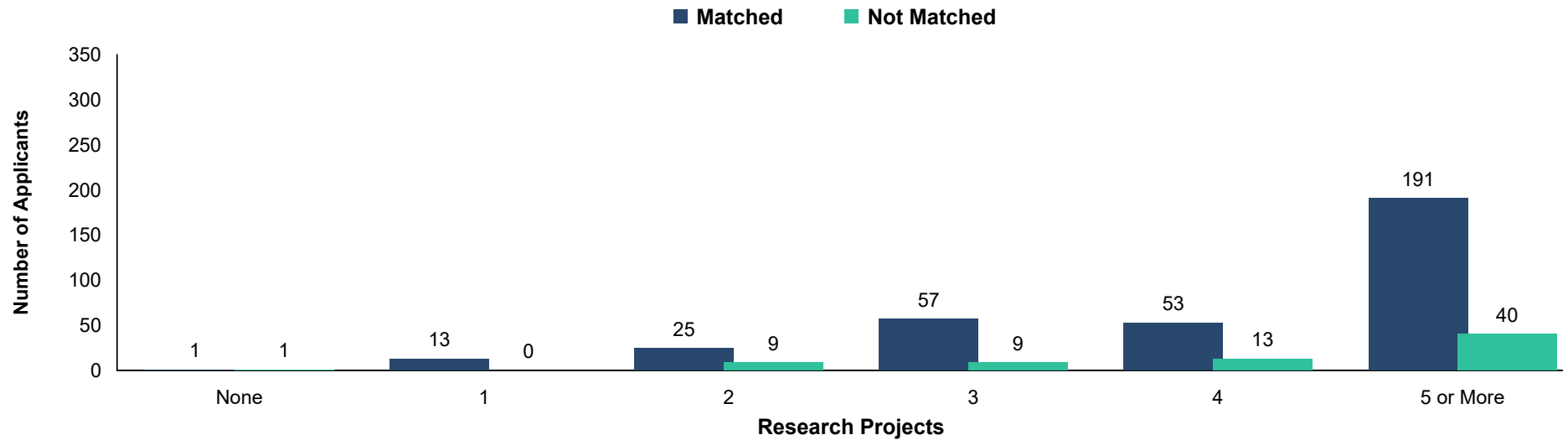
## Dermatology



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

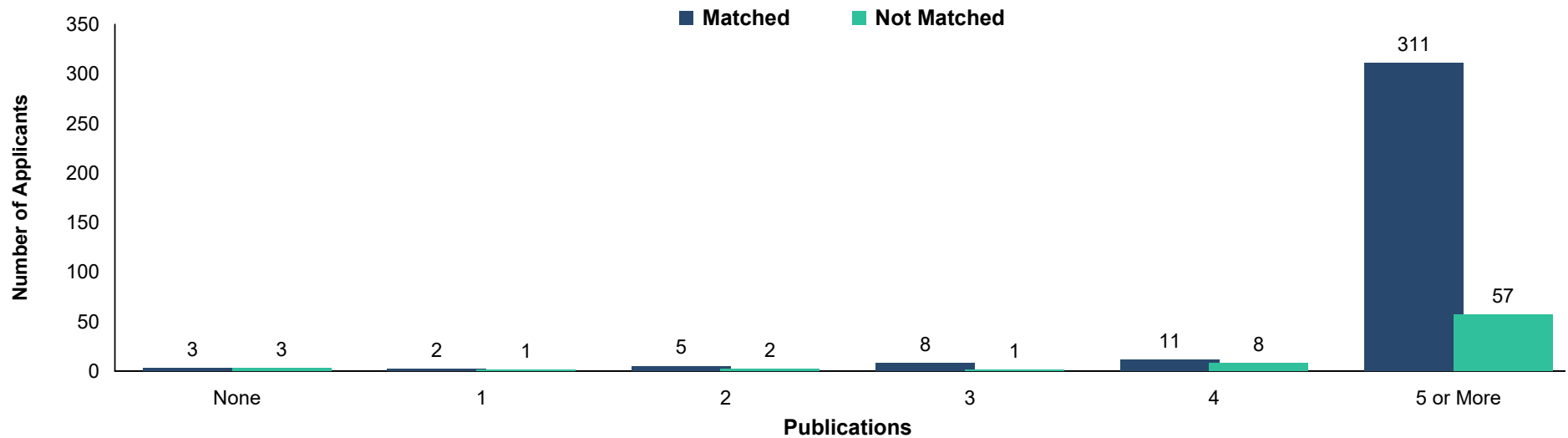
**Chart  
DM-5**

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



**Chart  
DM-6**

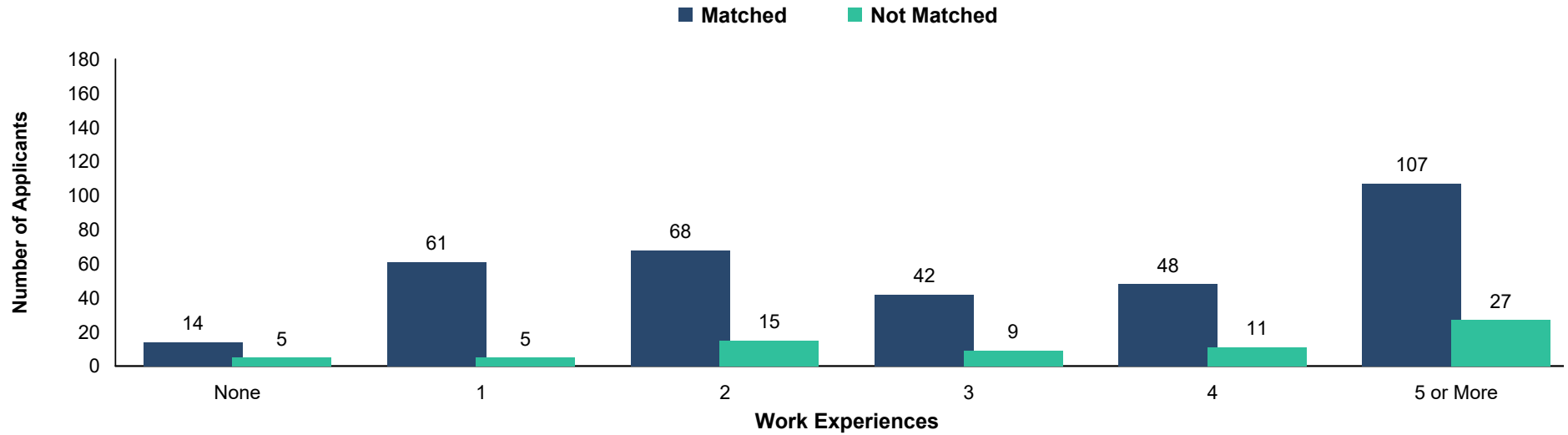
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Dermatology**



Source: NRMP Data Warehouse

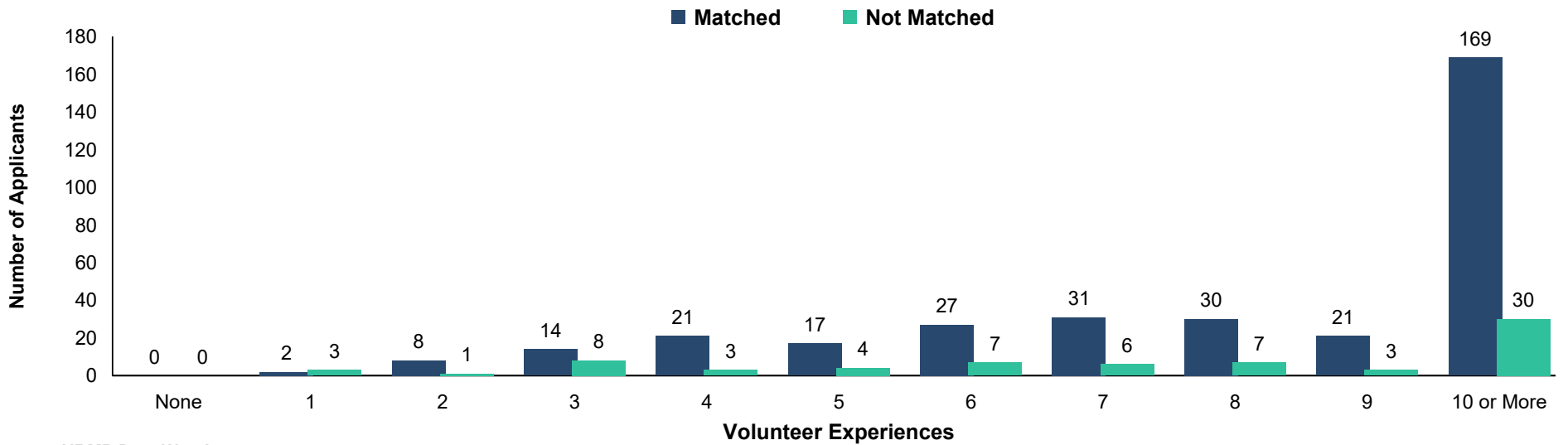
**Chart  
DM-7**

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



**Chart  
DM-8**

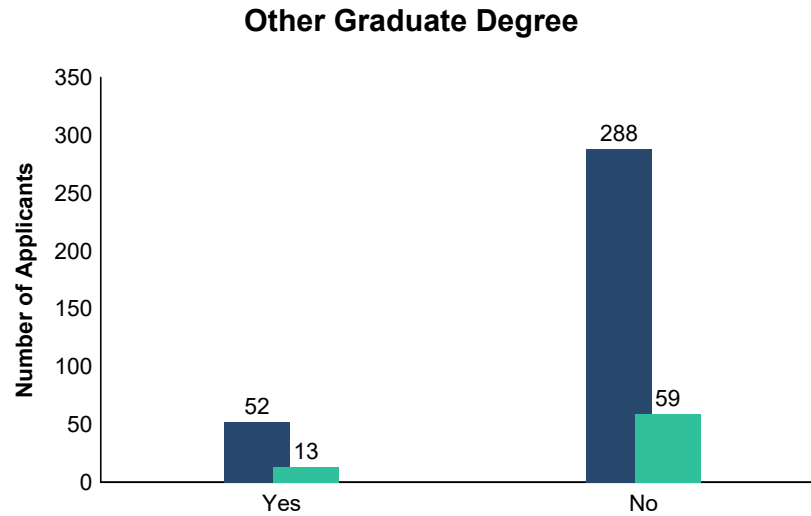
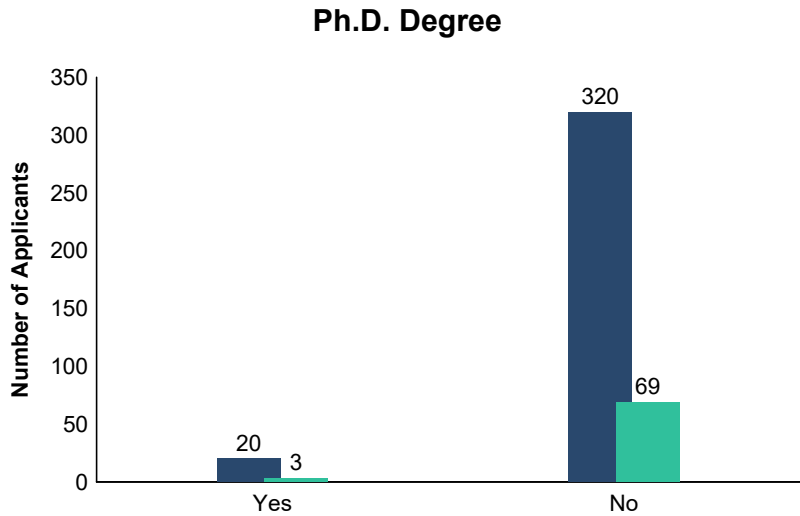
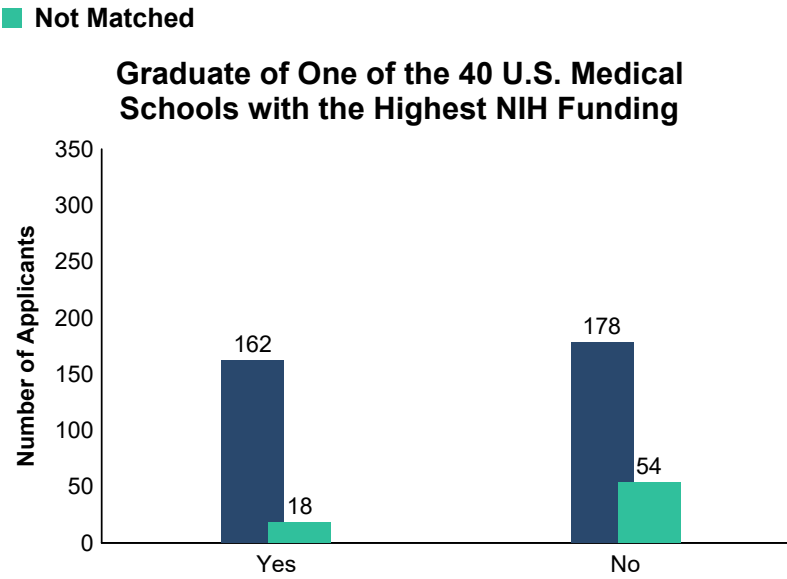
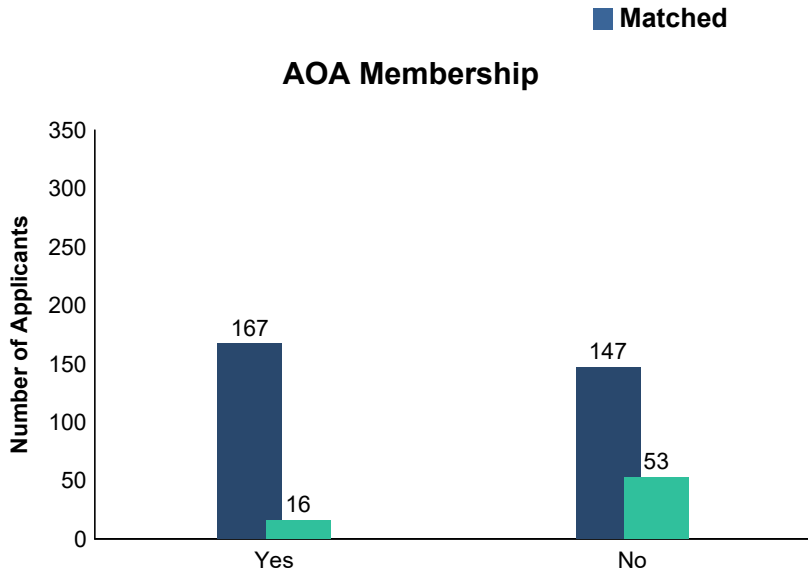
**Number of Volunteer Experiences of U.S. Allopathic Seniors  
Dermatology**



Source: NRMP Data Warehouse



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



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

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**DR** Diagnostic Radiology

## Summary Statistics on U.S. Allopathic Seniors

### Diagnostic Radiology

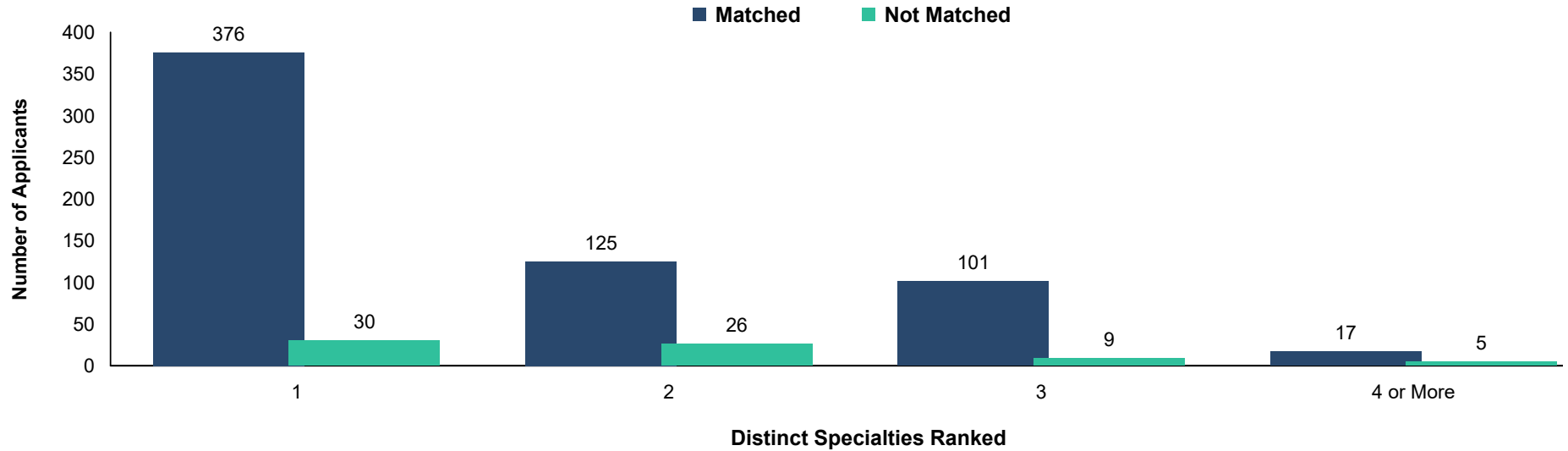
Measure	Matched (n=621)	Unmatched (n=71)
1. Mean number of contiguous ranks	12.5	6.8
2. Mean number of distinct specialties ranked	1.6	1.9
3. Mean USMLE Step 1 score	240	223
4. Mean USMLE Step 2 score	249	235
5. Mean number of research experiences	3.7	3.2
6. Mean number of abstracts, presentations, and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

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

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

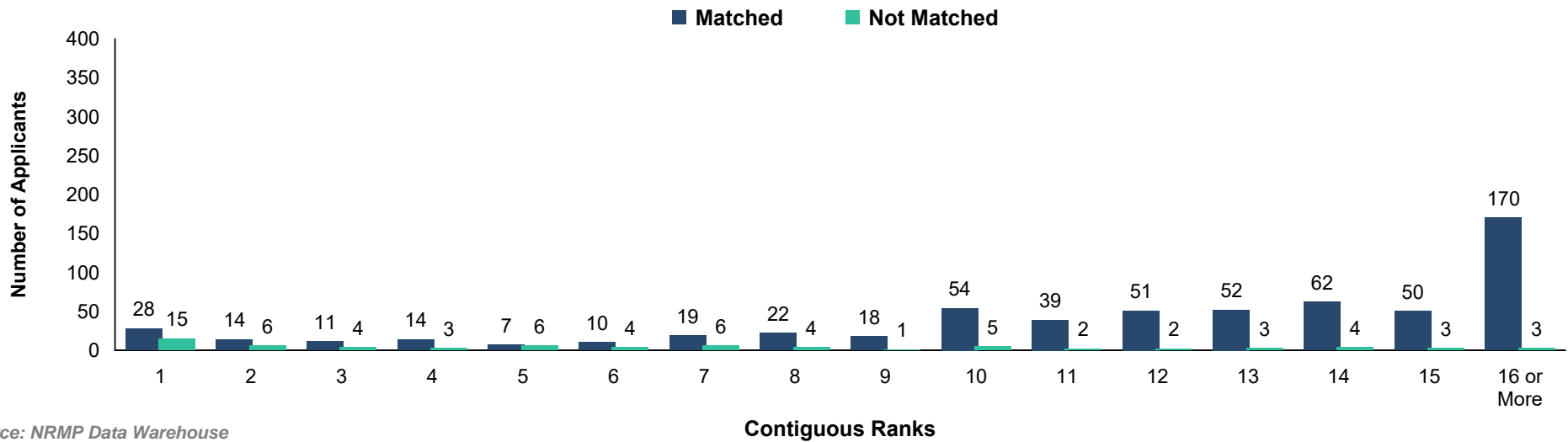
**Chart  
DR-1**

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



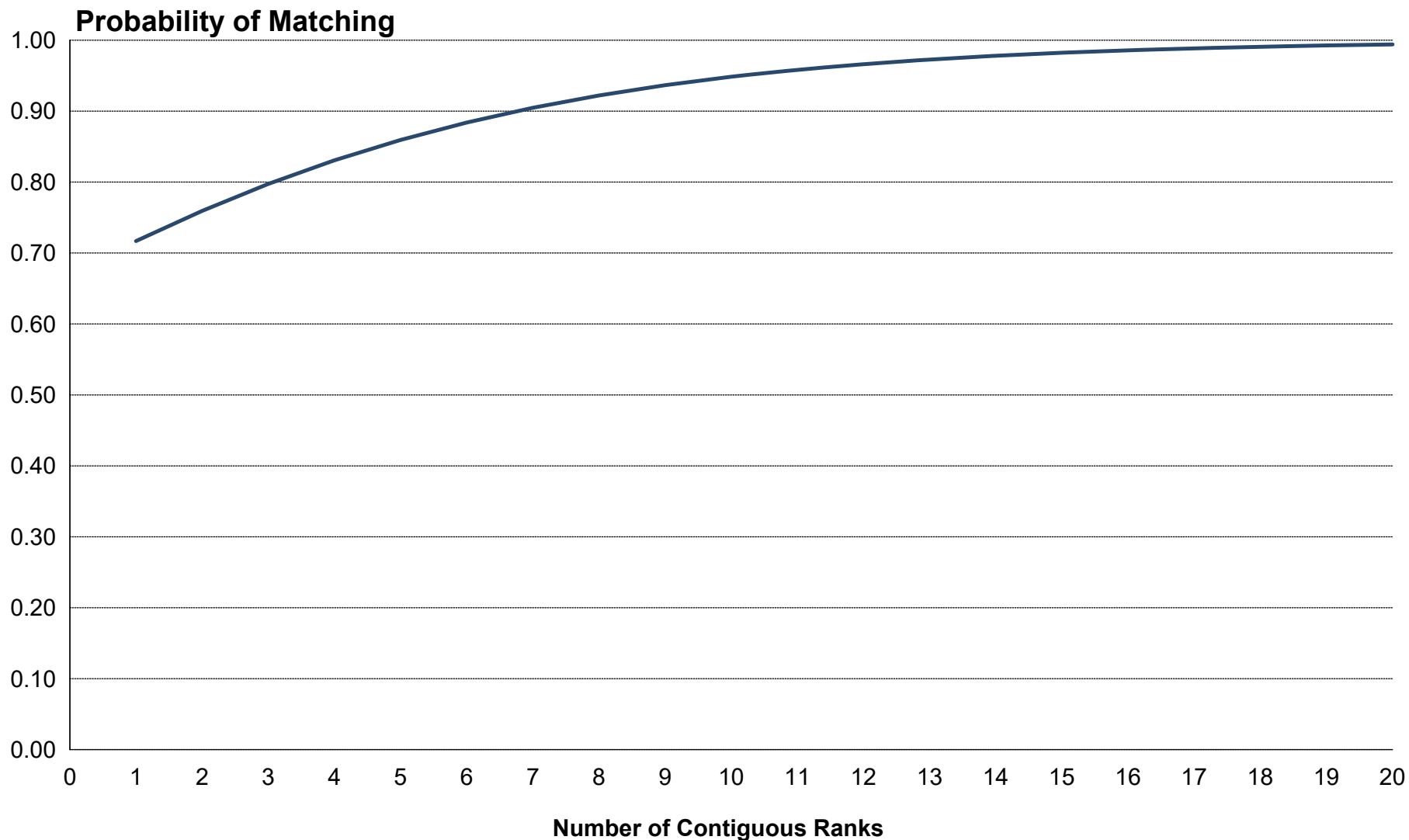
**Chart  
DR-2**

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



Source: NRMP Data Warehouse

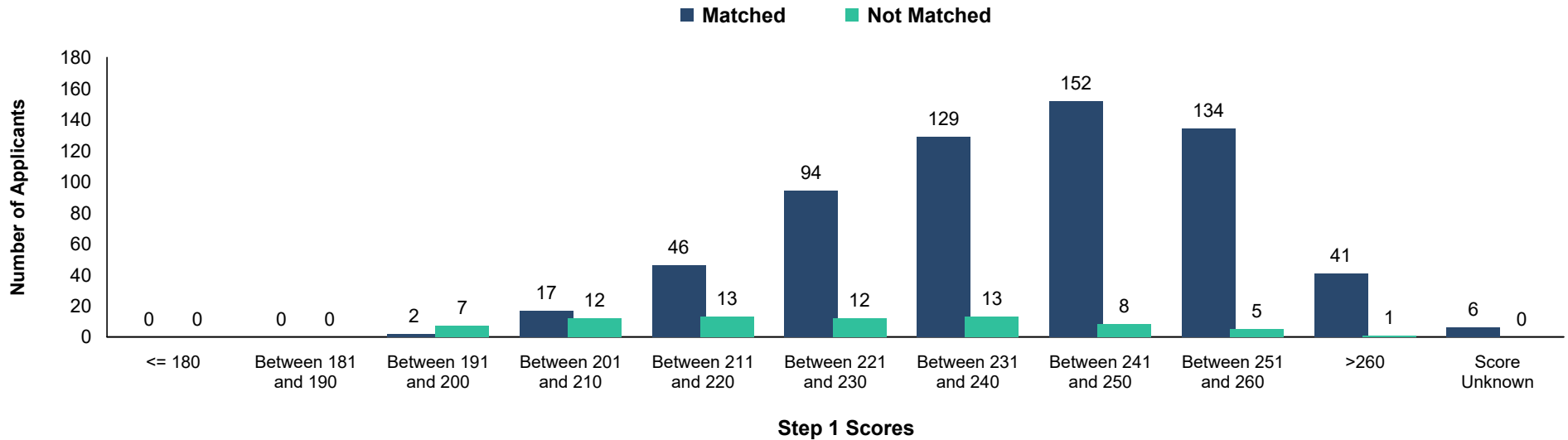
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks**  
*Diagnostic Radiology*



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

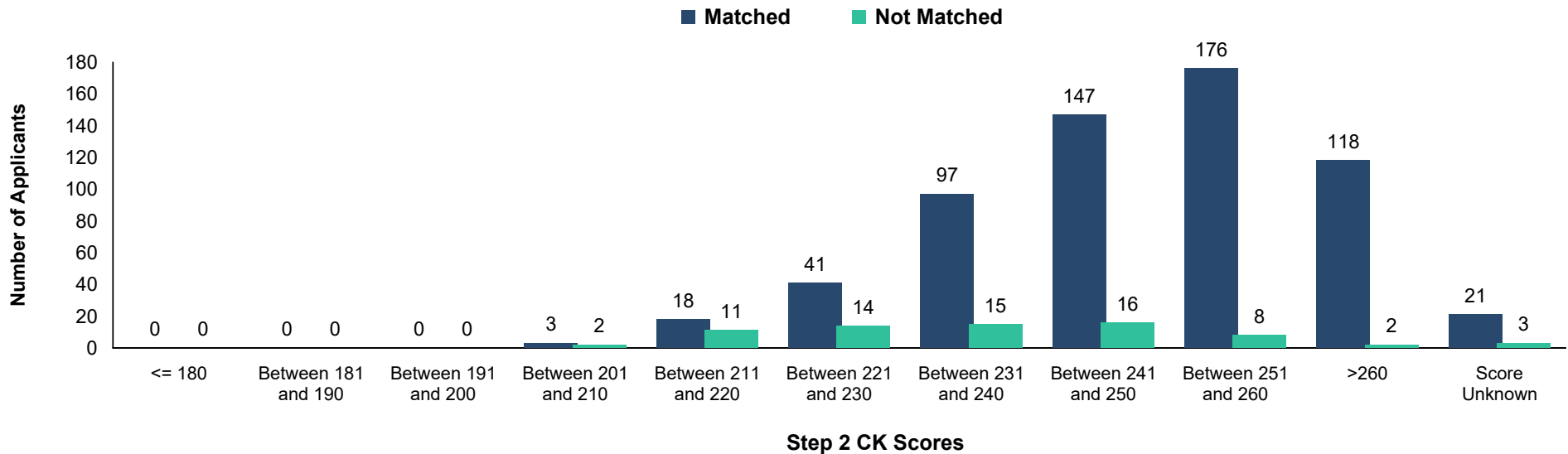
**Chart  
DR-3**

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



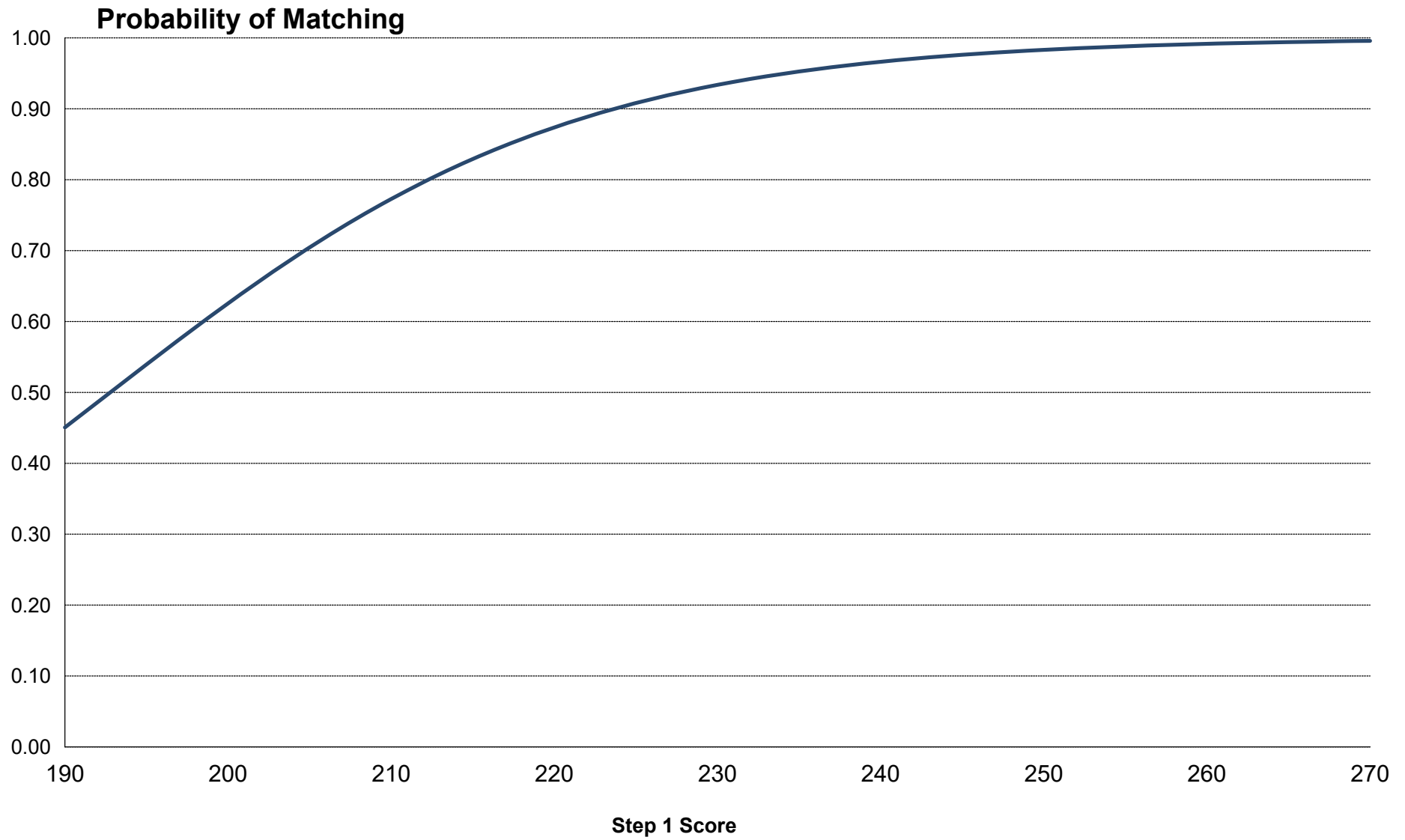
**Chart  
DR-4**

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



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

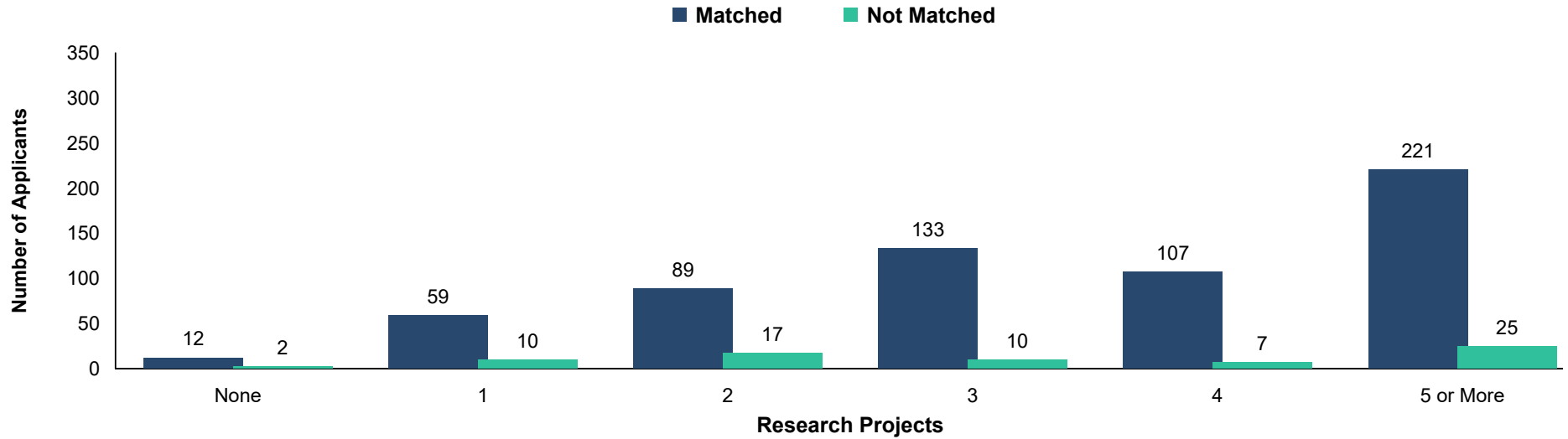
## *Diagnostic Radiology*



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

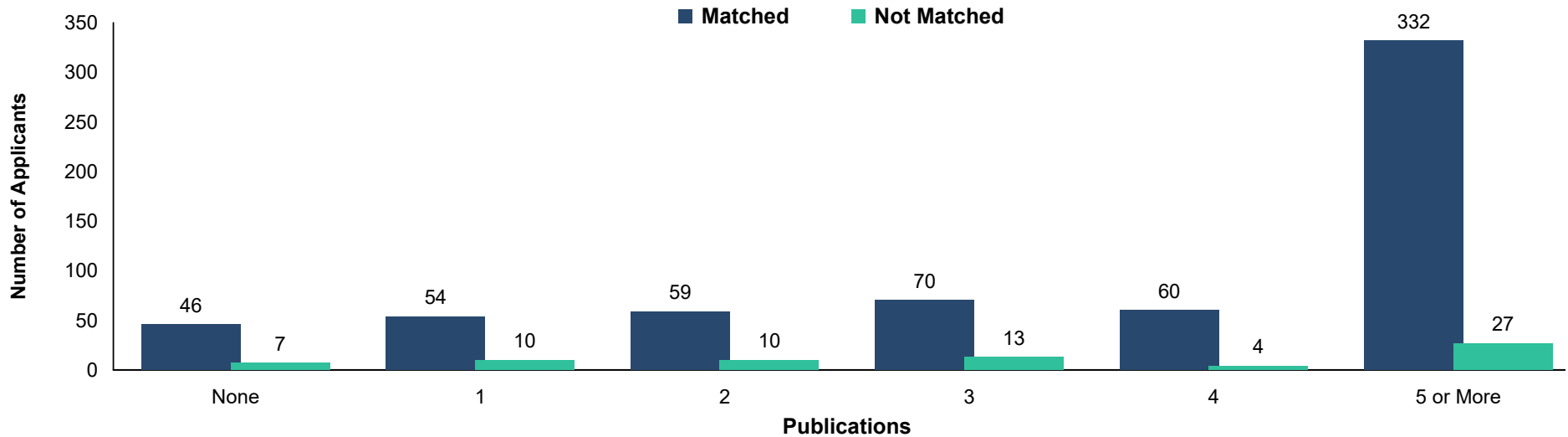
**Chart  
DR-5**

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



**Chart  
DR-6**

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

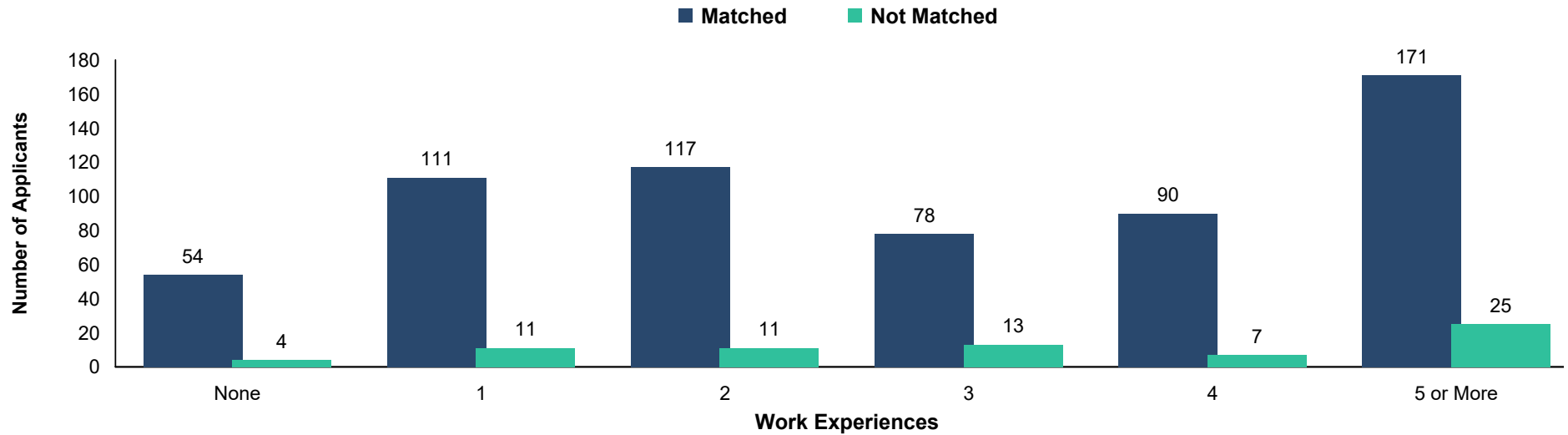


Source: NRMP Data Warehouse



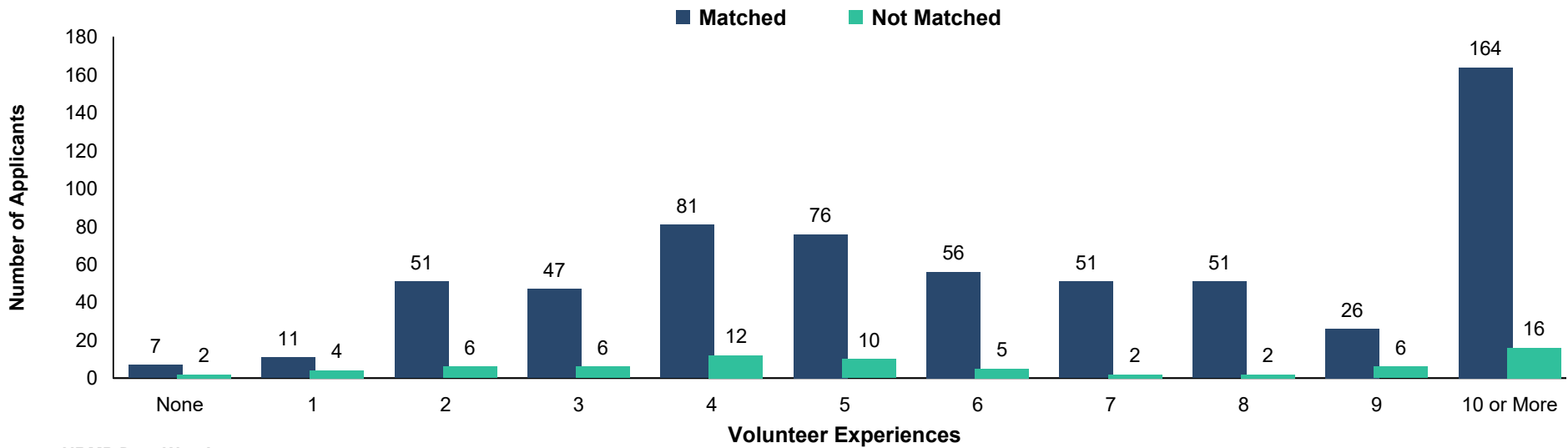
**Chart  
DR-7**

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



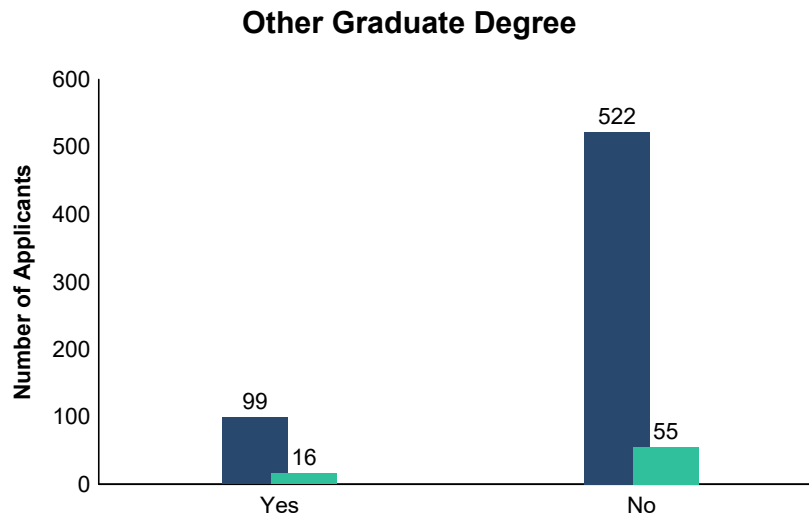
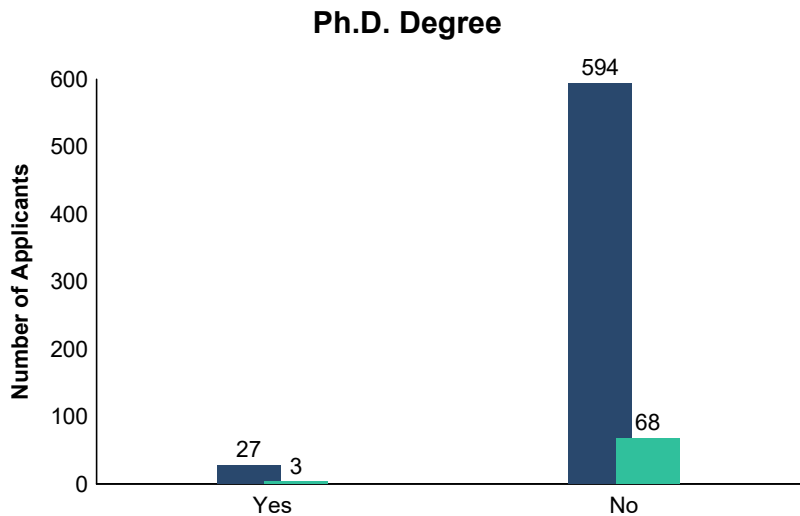
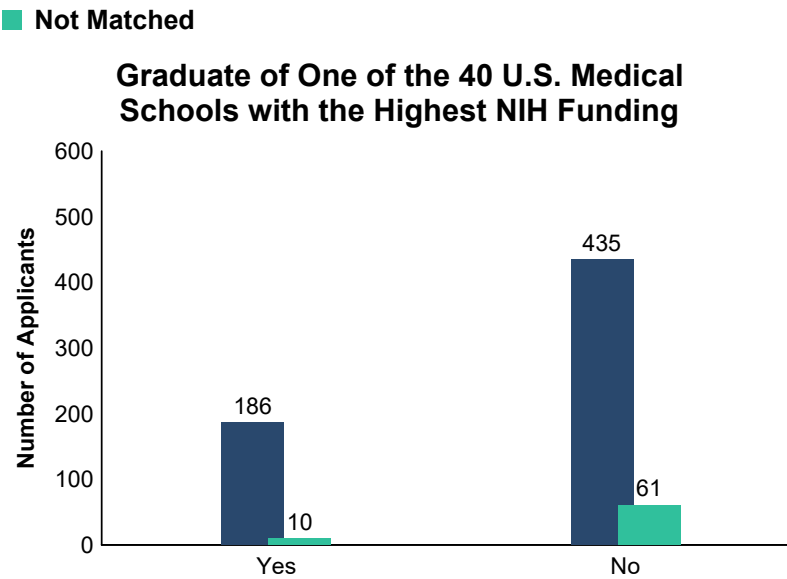
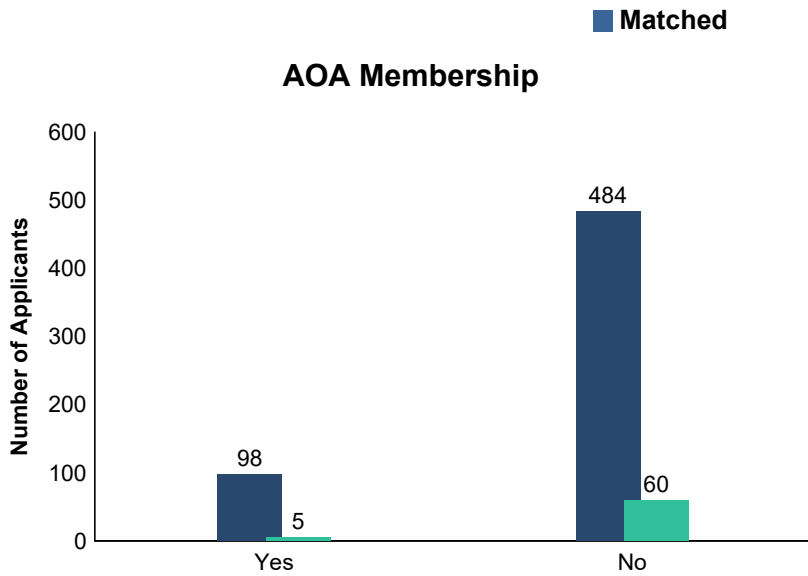
**Chart  
DR-8**

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



Source: NRMP Data Warehouse

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



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

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**EM** **Emergency Medicine**

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

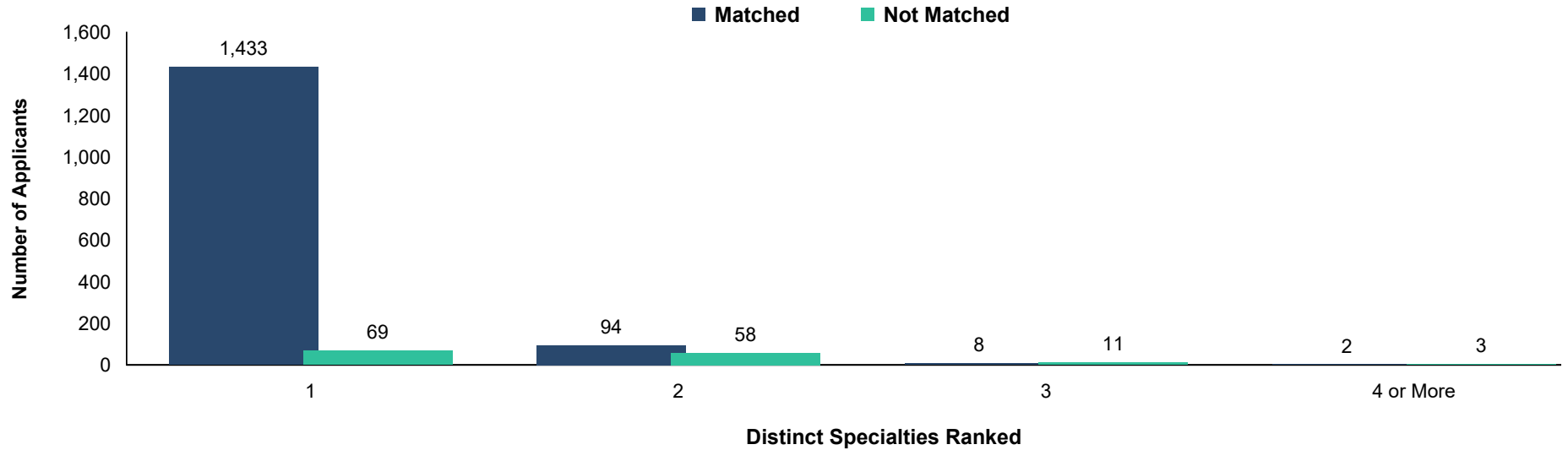
Measure	Matched (n=1,538)	Unmatched (n=141)
1. Mean number of contiguous ranks	12.8	5.0
2. Mean number of distinct specialties ranked	1.1	1.6
3. Mean USMLE Step 1 score	233	220
4. Mean USMLE Step 2 score	247	233
5. Mean number of research experiences	2.5	2.3
6. Mean number of abstracts, presentations,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

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

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

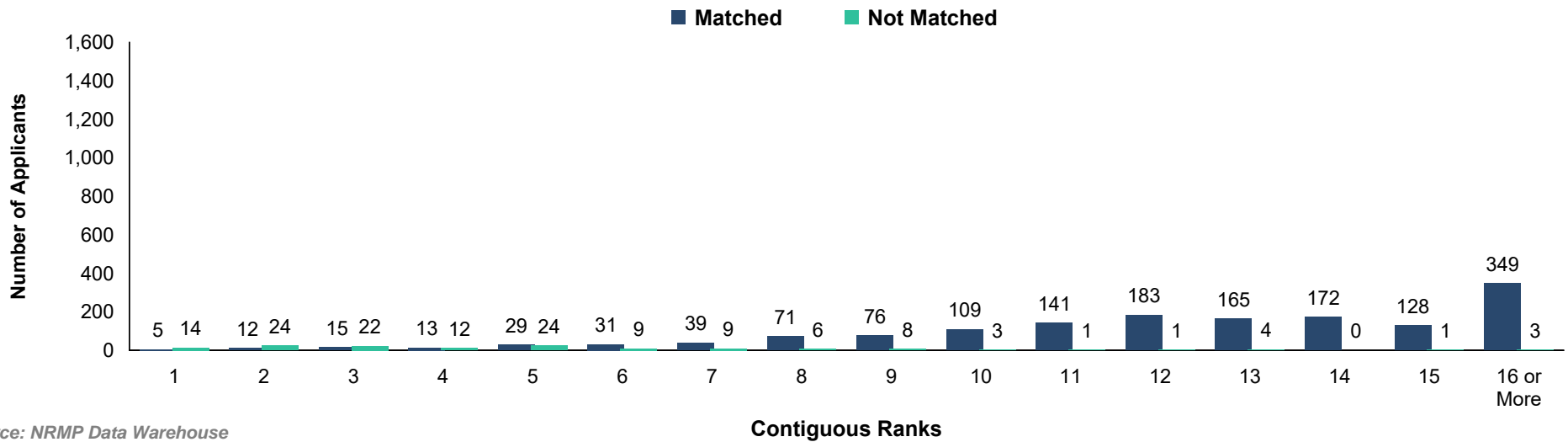
**Chart  
EM-1**

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



**Chart  
EM-2**

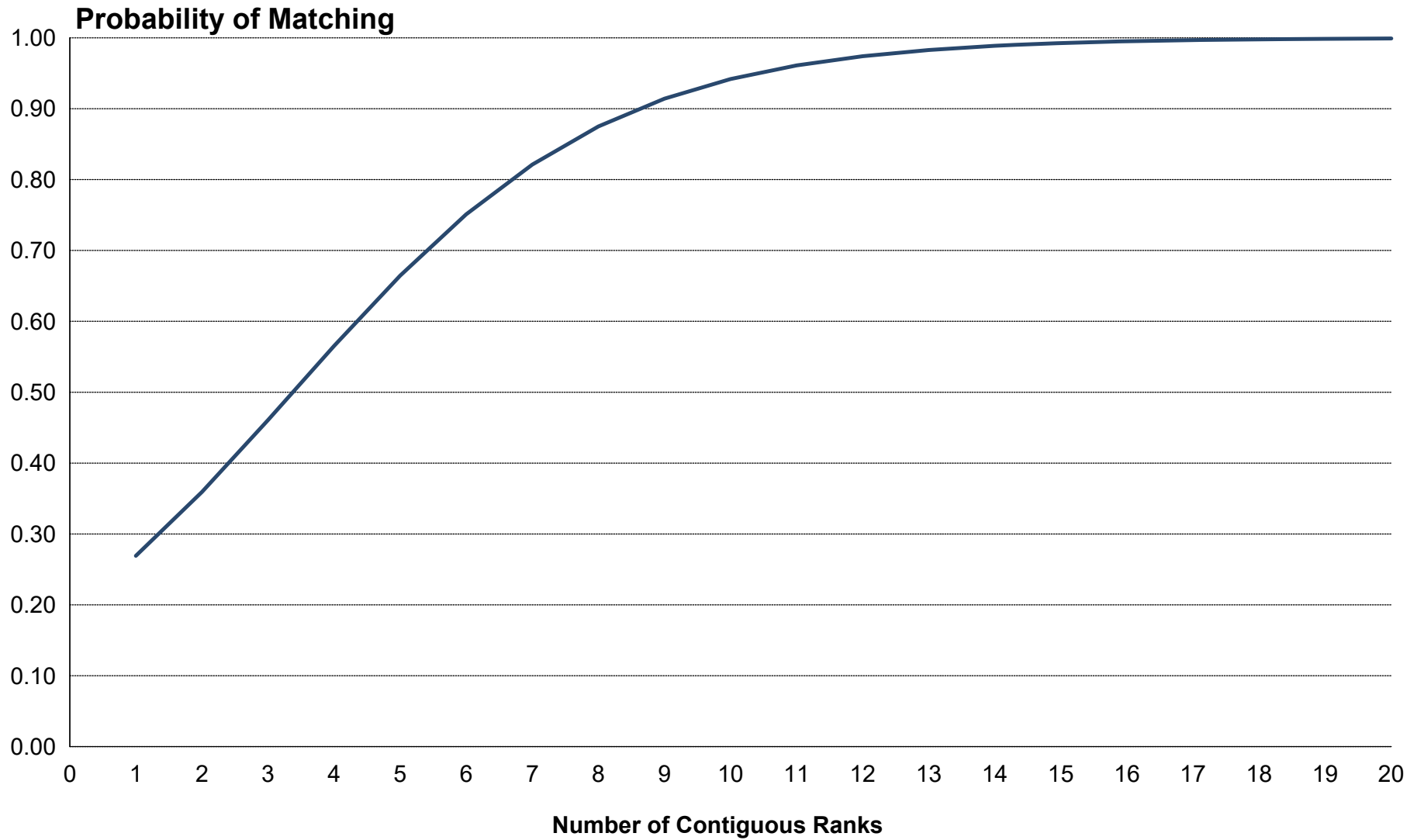
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Emergency Medicine**



Source: NRMP Data Warehouse

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

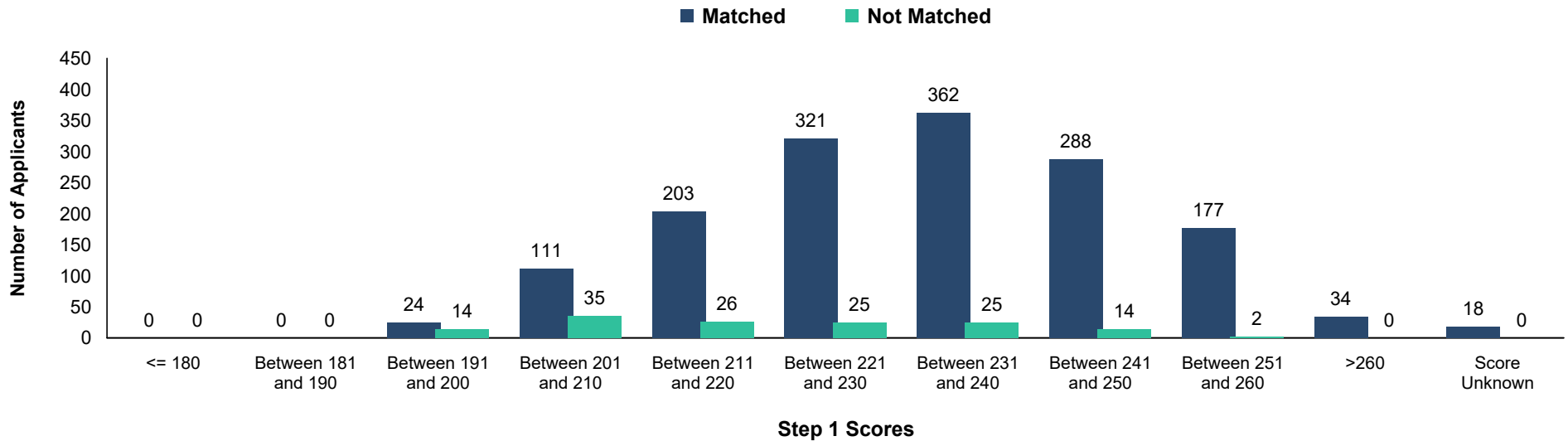
*Emergency Medicine*



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

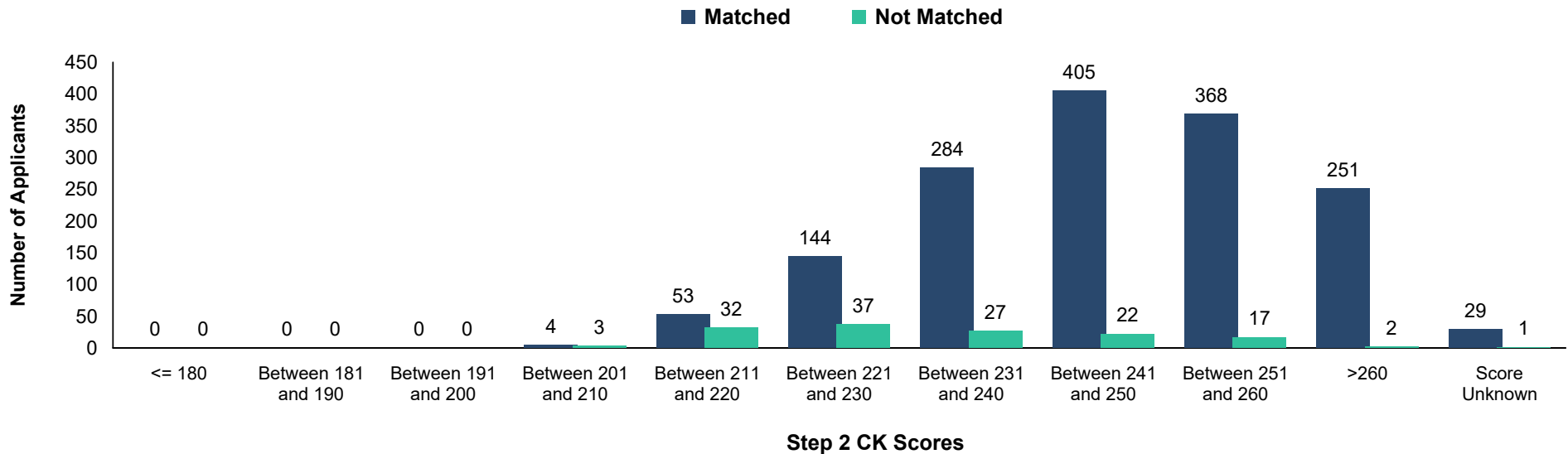
**Chart  
EM-3**

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

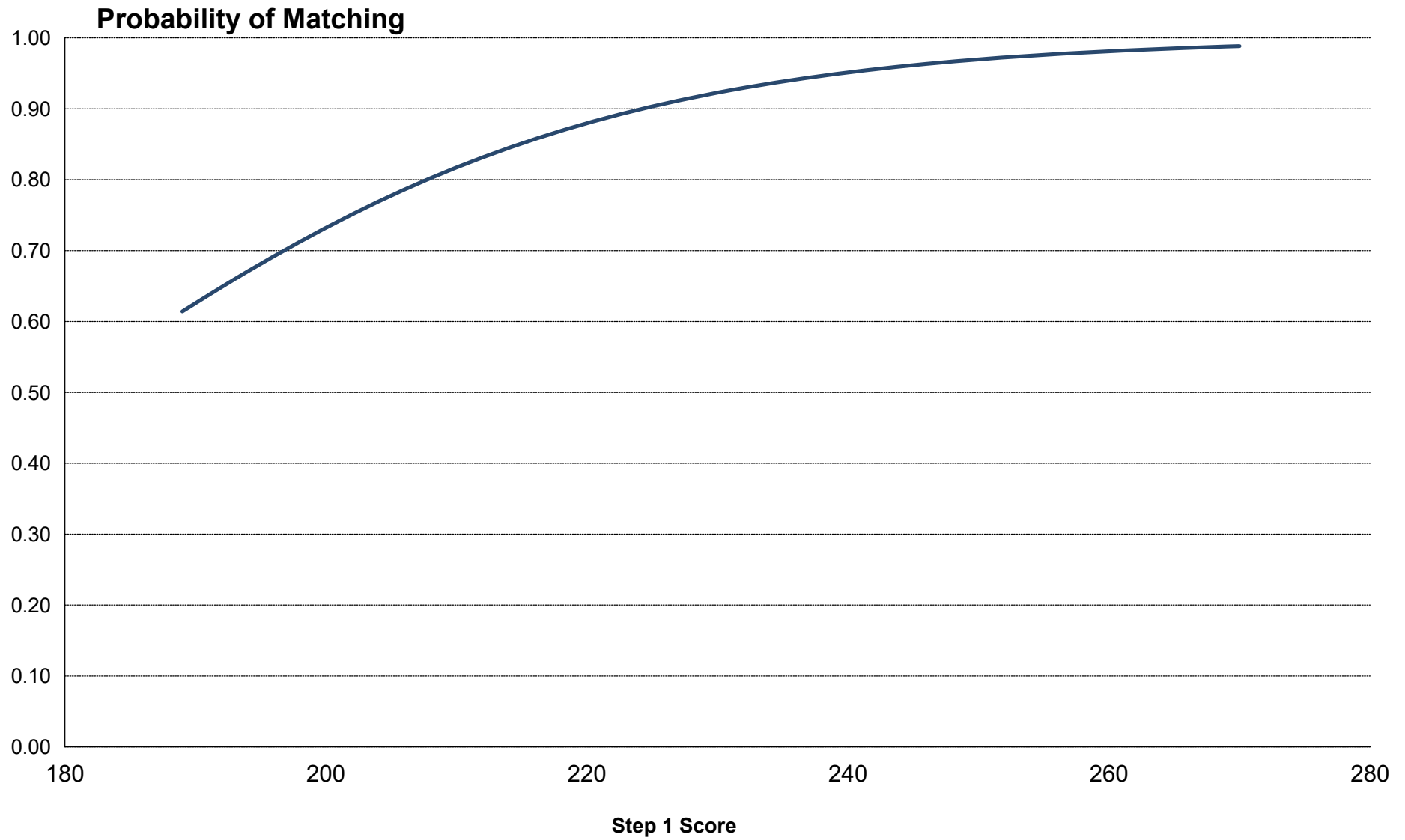


**Chart  
EM-4**

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



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

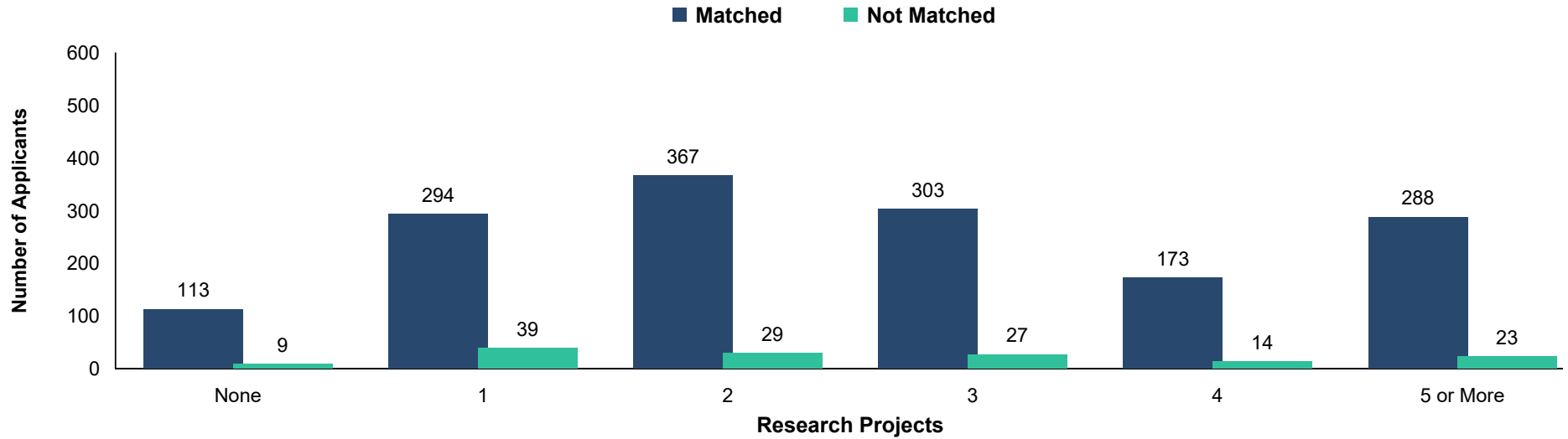


Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.



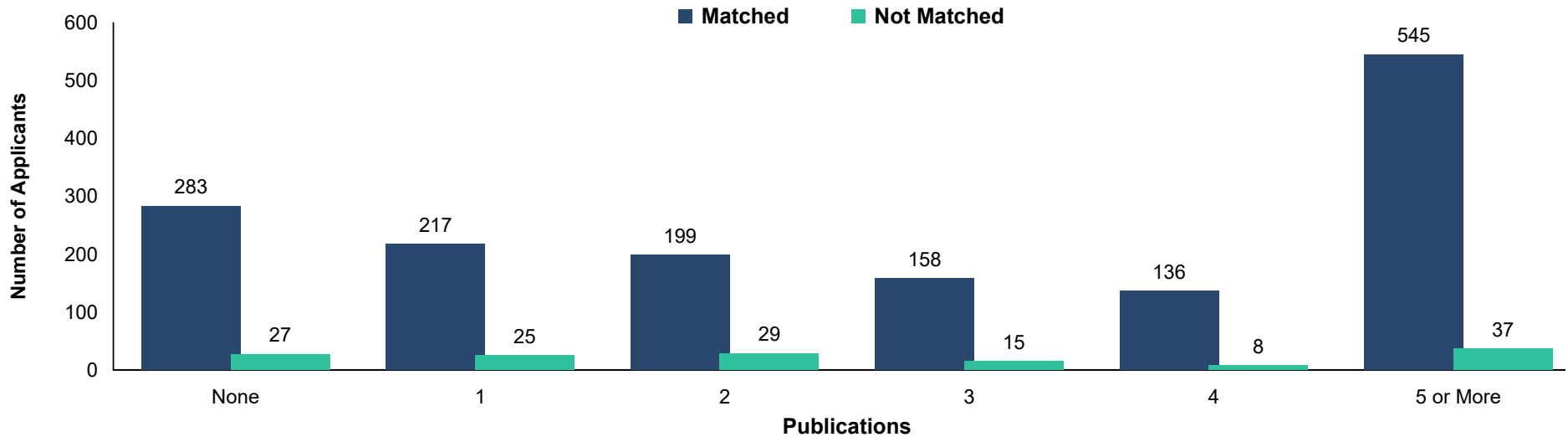
**Chart  
EM-5**

### Number of Research Projects of U.S. Allopathic Seniors *Emergency Medicine*



**Chart  
EM-6**

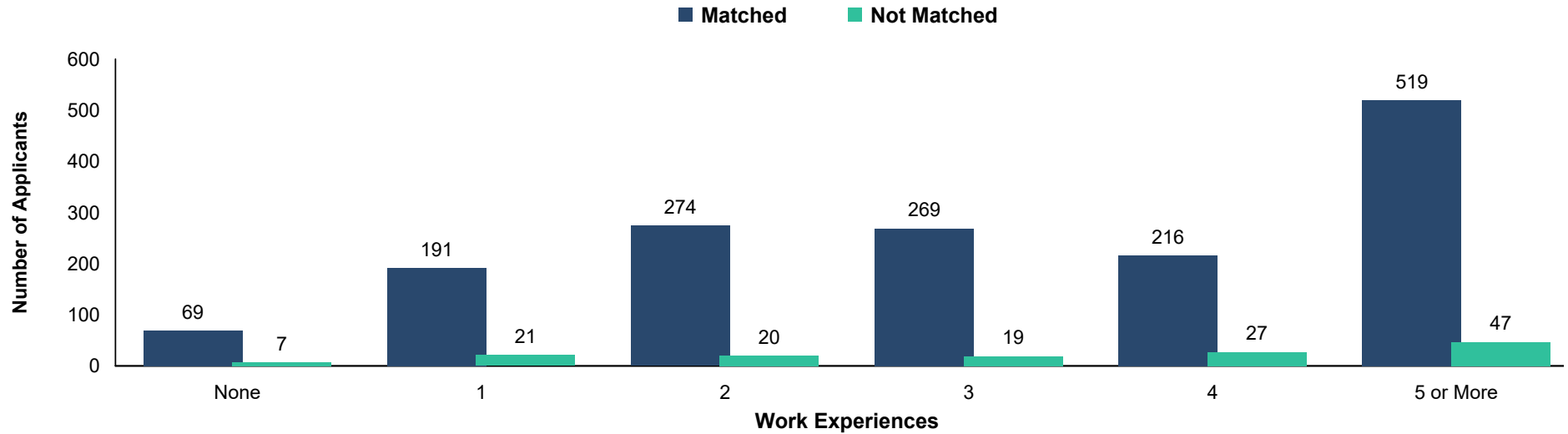
### Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors *Emergency Medicine*



Source: NRMP Data Warehouse

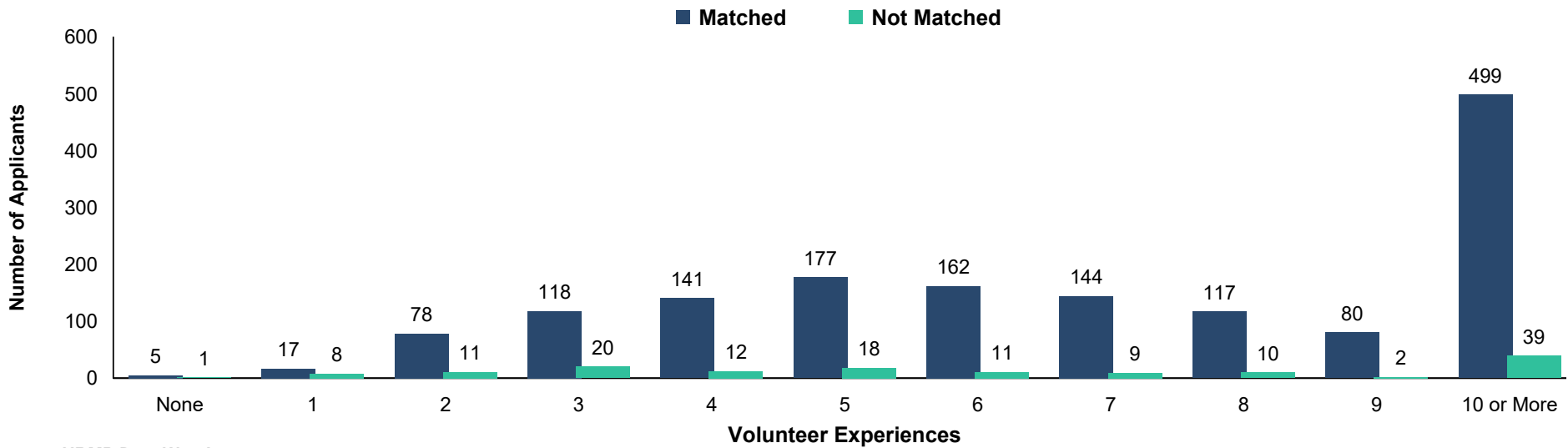
**Chart EM-7**

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



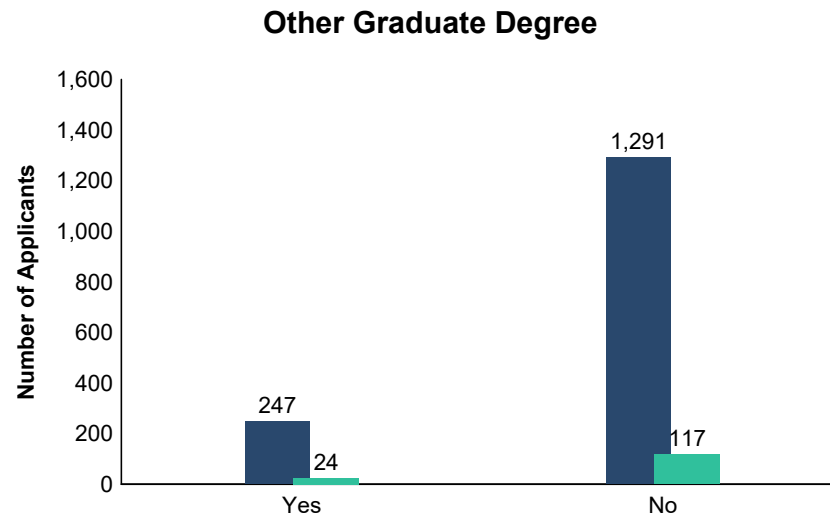
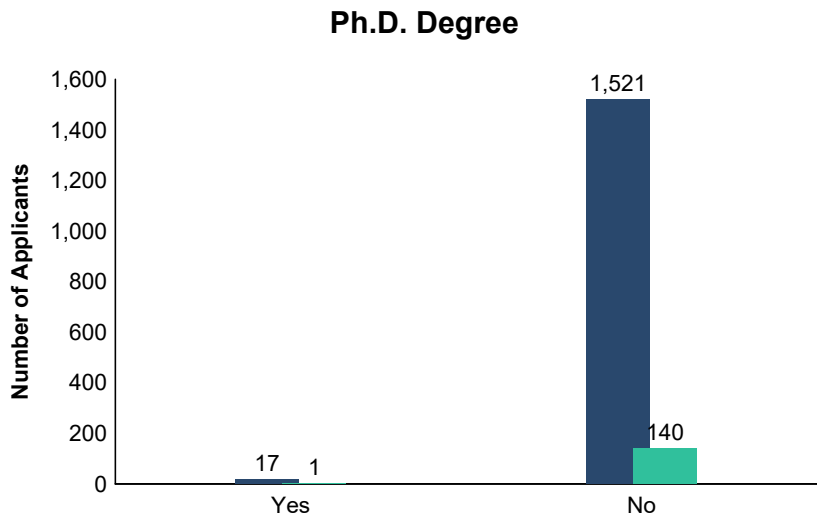
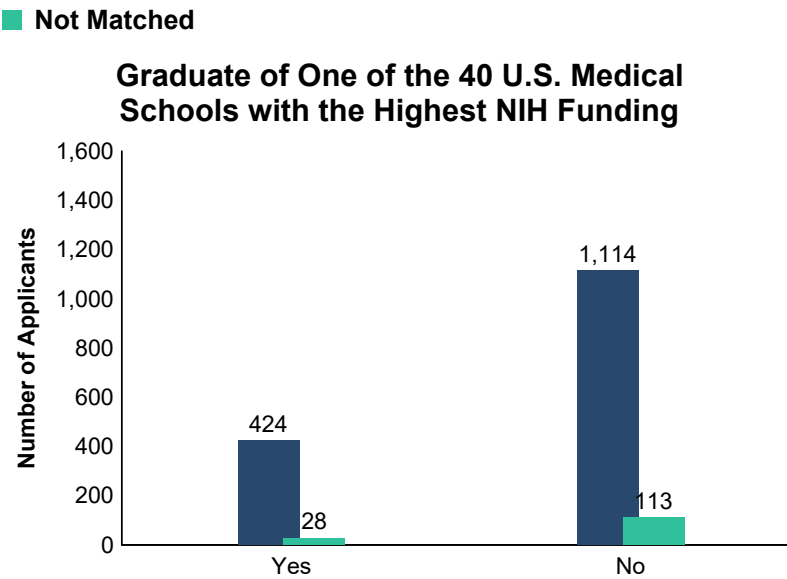
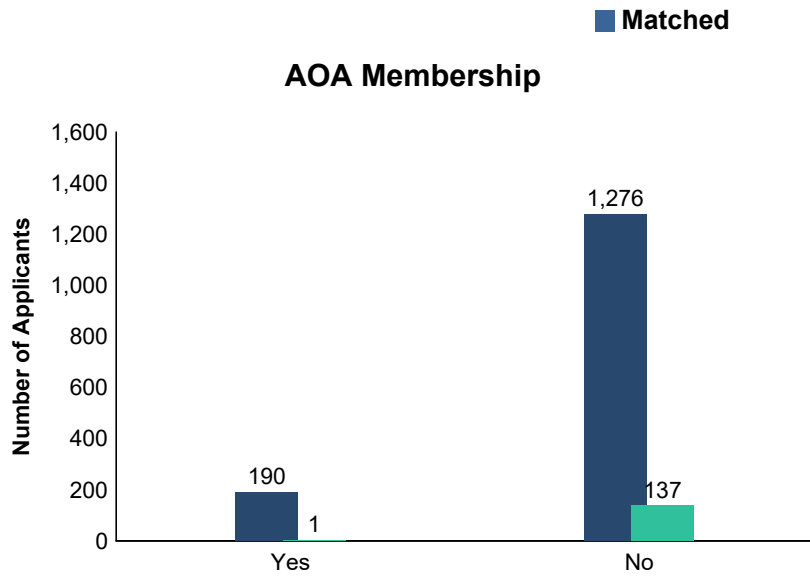
**Chart EM-8**

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



Source: NRMP Data Warehouse

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



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

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**FM** Family Medicine

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

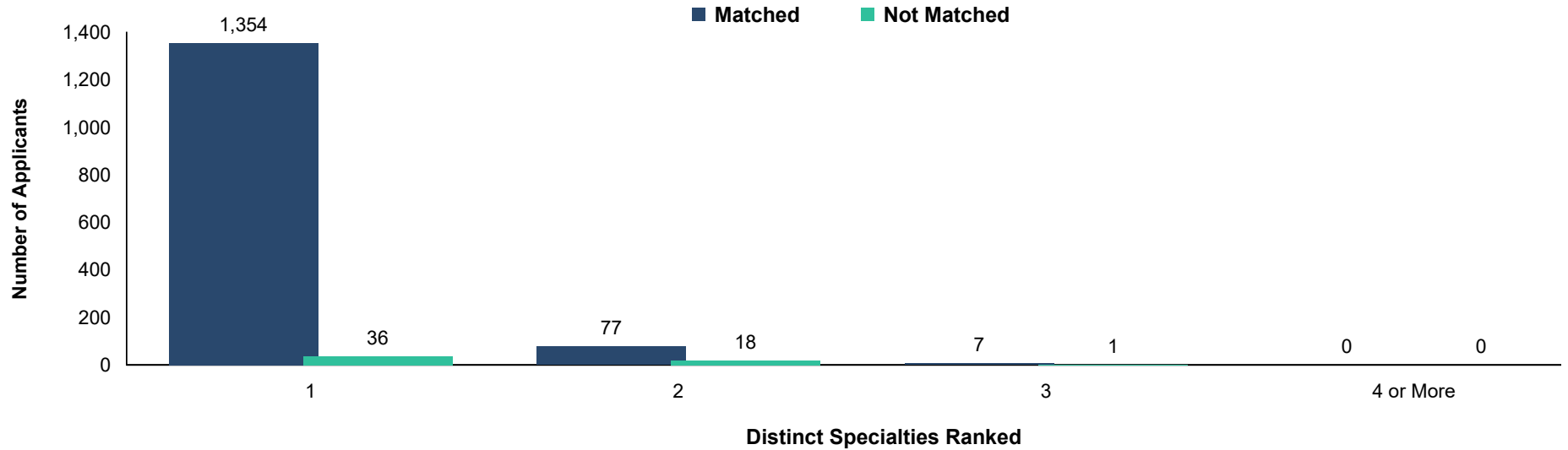
Measure	Matched (n=1,438)	Unmatched (n=55)
1. Mean number of contiguous ranks	11.4	3.9
2. Mean number of distinct specialties ranked	1.1	1.4
3. Mean USMLE Step 1 score	220	206
4. Mean USMLE Step 2 score	237	223
5. Mean number of research experiences	2.1	2.7
6. Mean number of abstracts, presentations,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

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

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

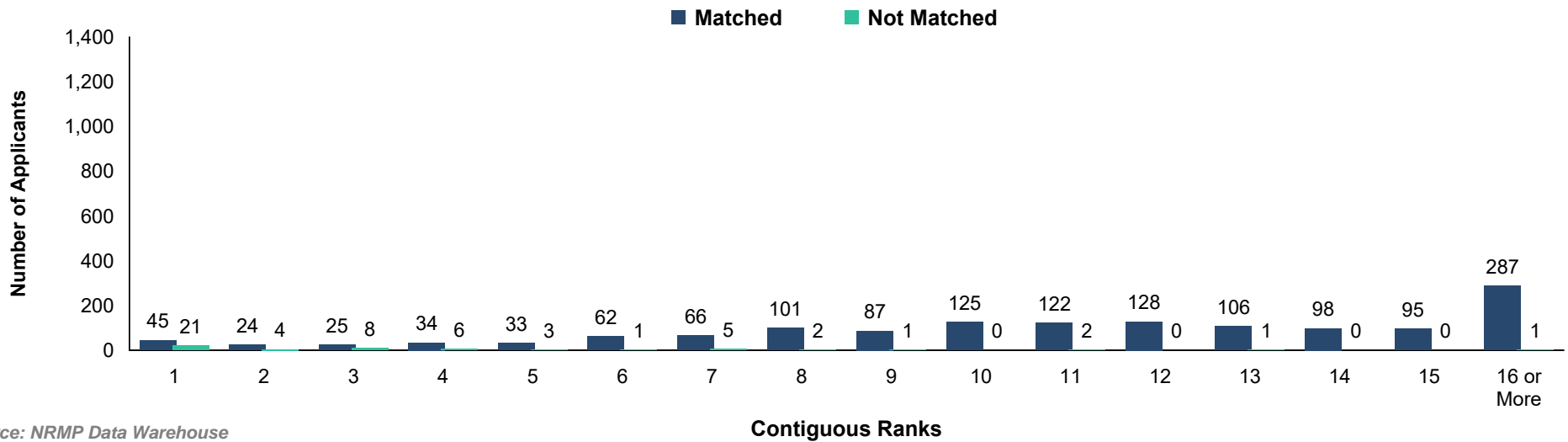
**Chart  
FM-1**

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



**Chart  
FM-2**

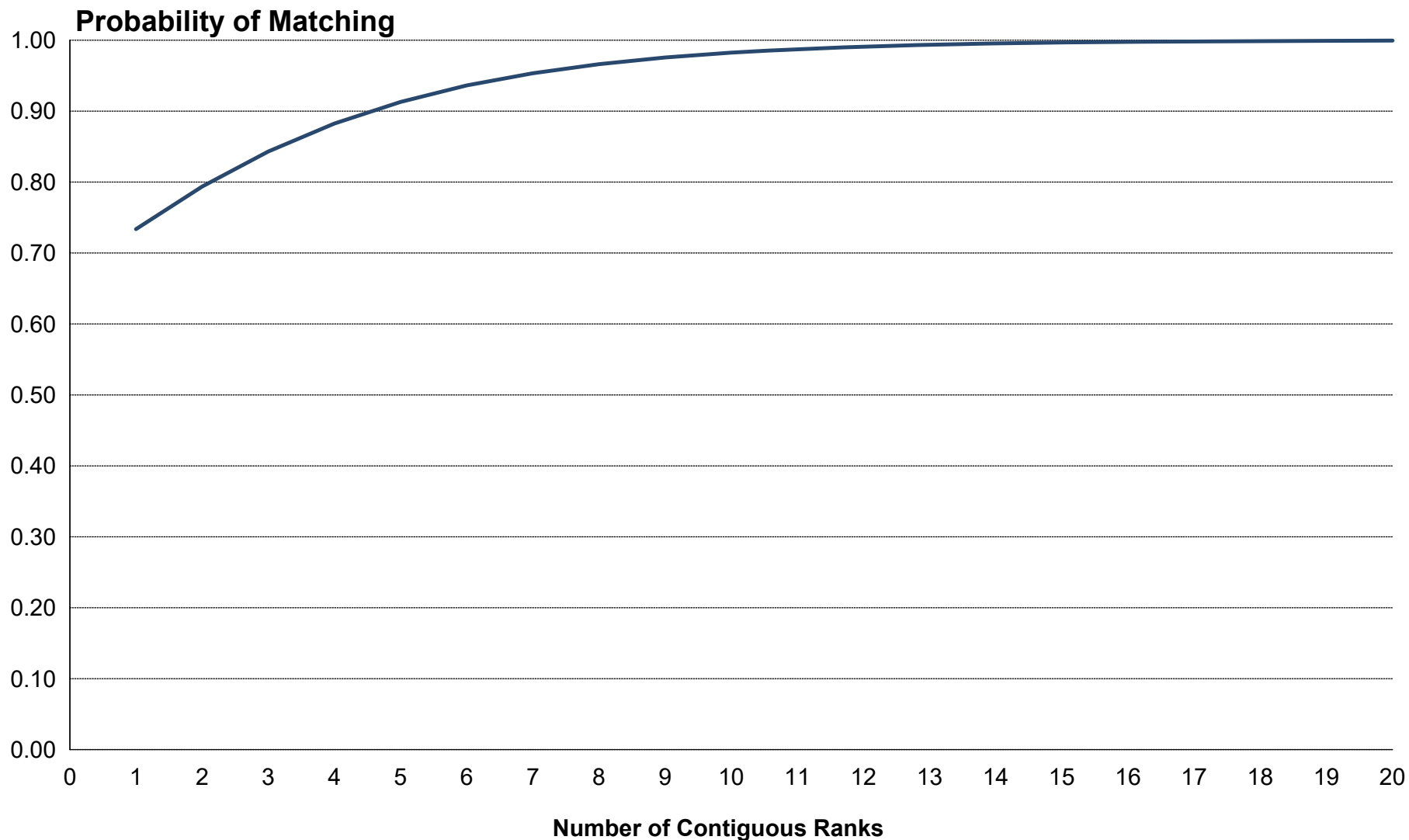
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Family Medicine**



Source: NRMP Data Warehouse

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

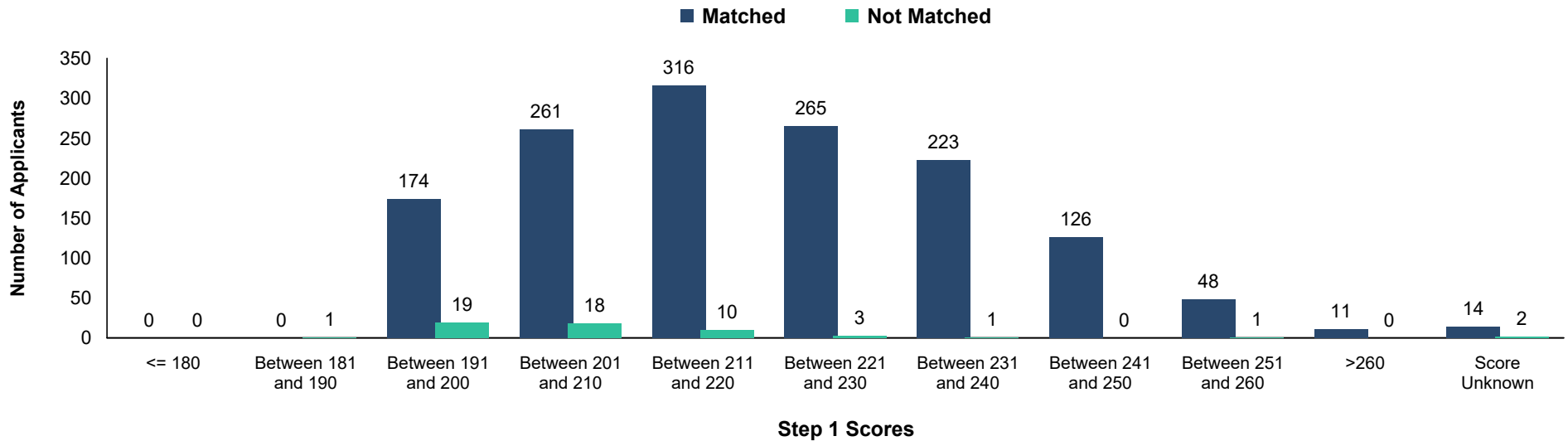
*Family Medicine*



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

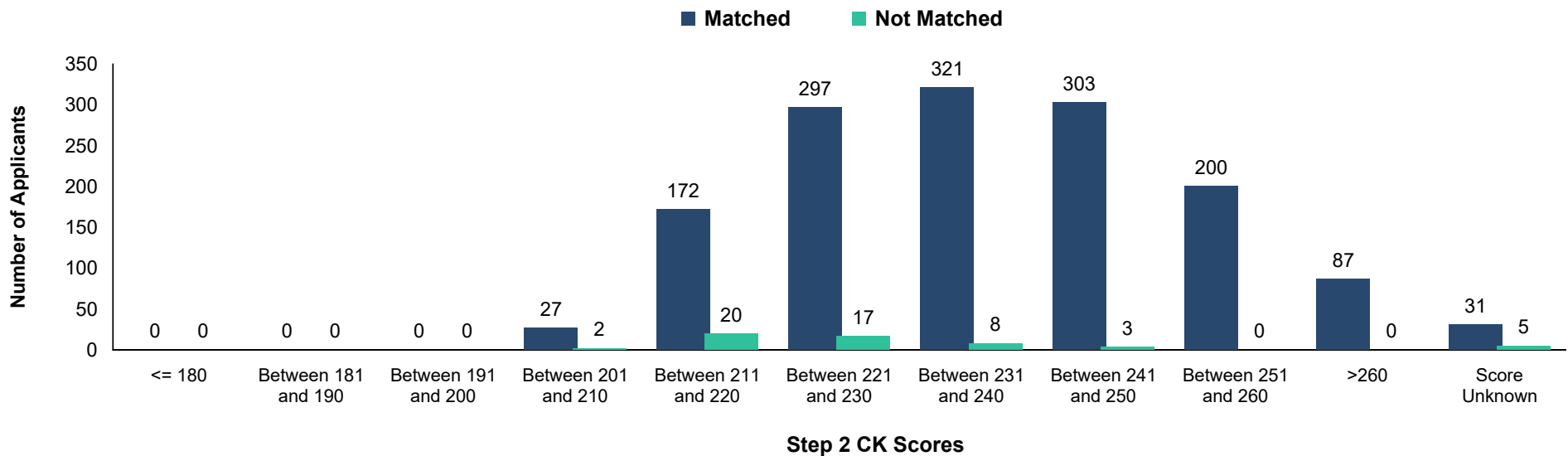
**Chart  
FM-3**

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



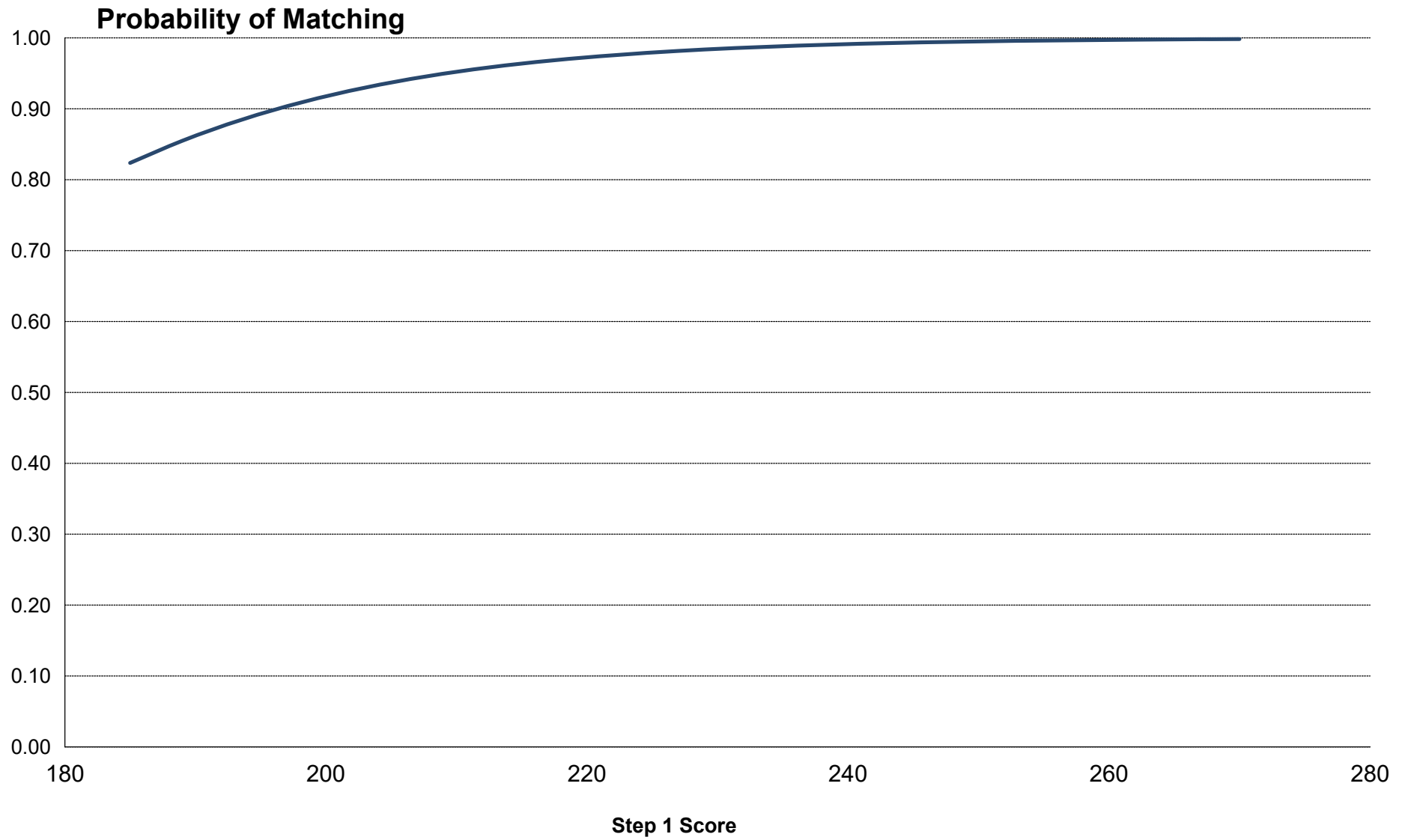
**Chart  
FM-4**

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





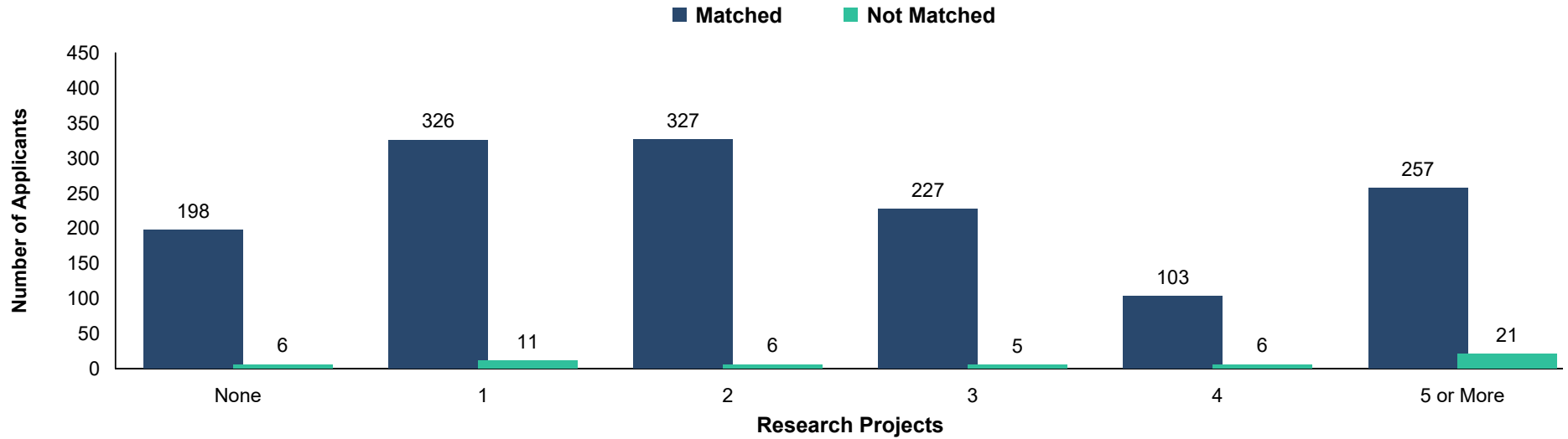
## Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *Family Medicine*



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

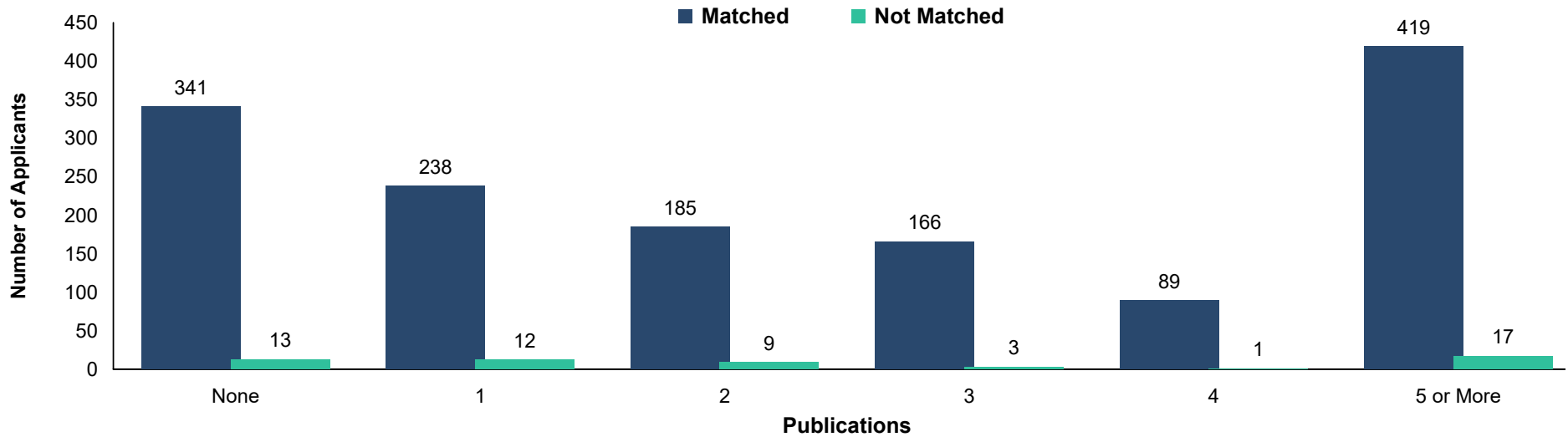
**Chart  
FM-5**

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



**Chart  
FM-6**

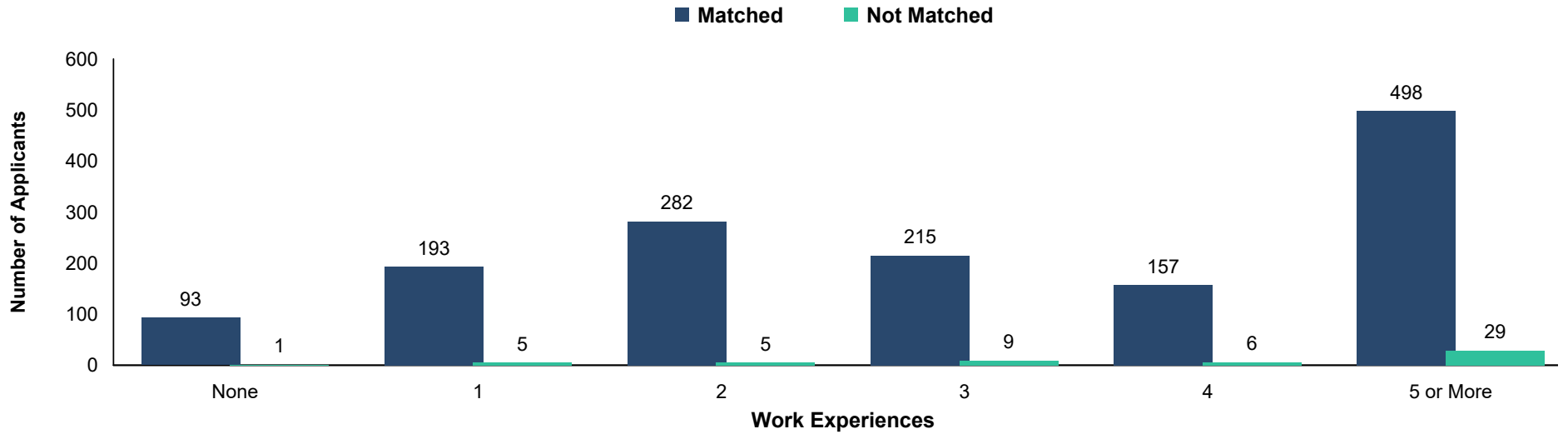
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Family Medicine**



Source: NRMP Data Warehouse

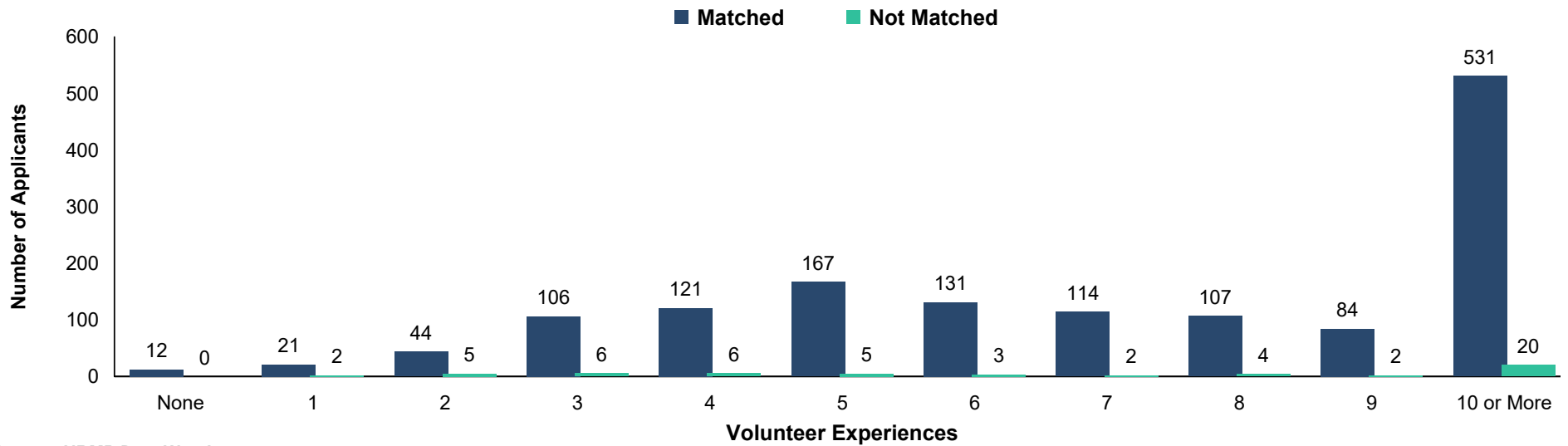
**Chart  
FM-7**

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



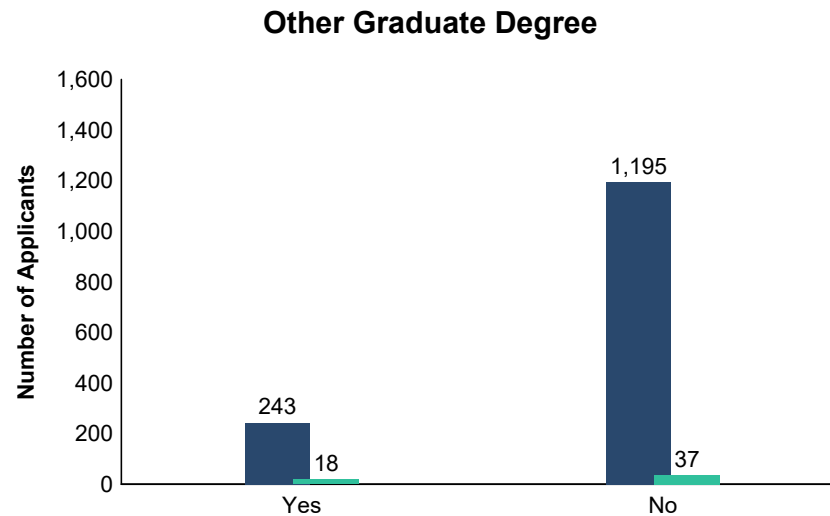
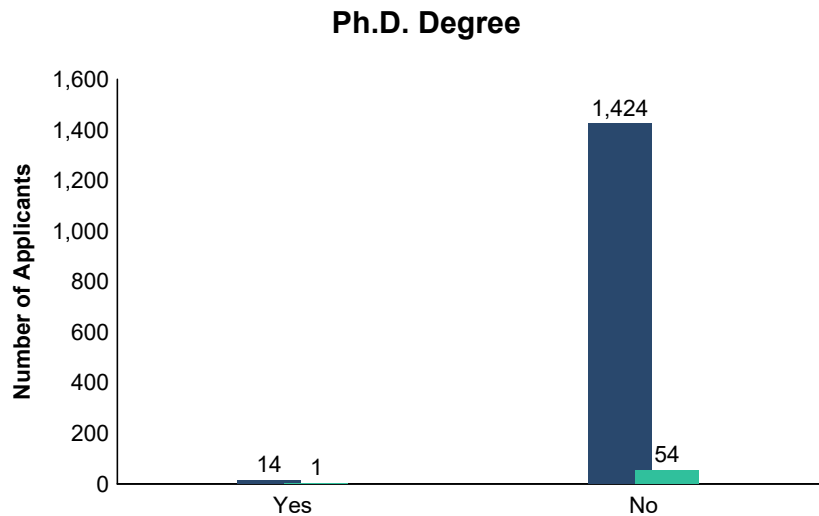
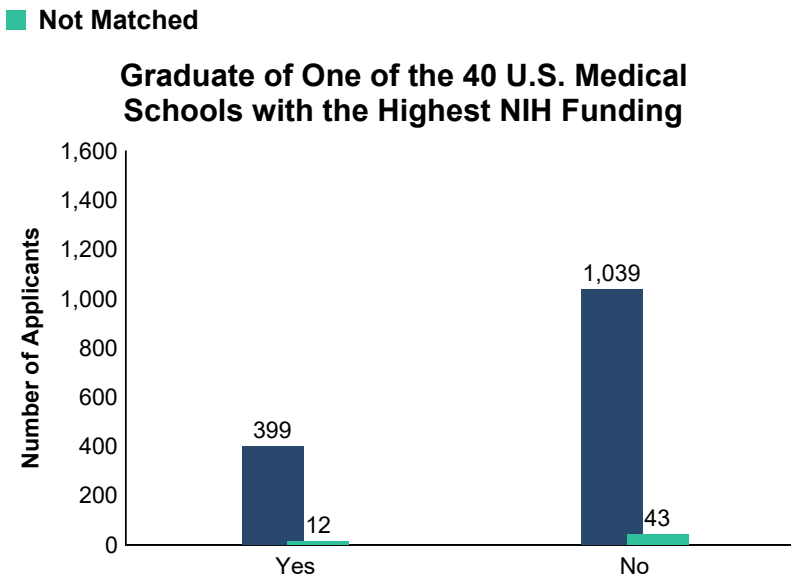
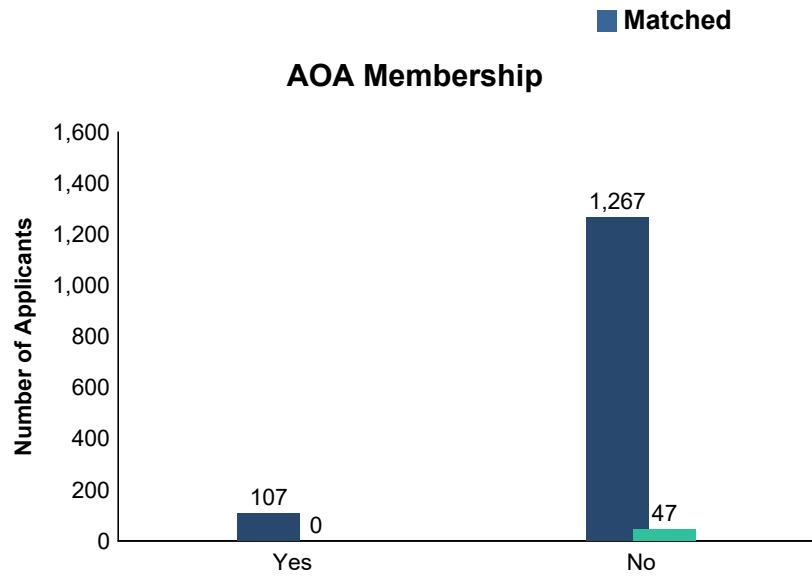
**Chart  
FM-8**

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



Source: NRMP Data Warehouse

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



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

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**GS** **General Surgery**

**Table  
GS-1****Summary Statistics on U.S. Allopathic Seniors  
General Surgery**

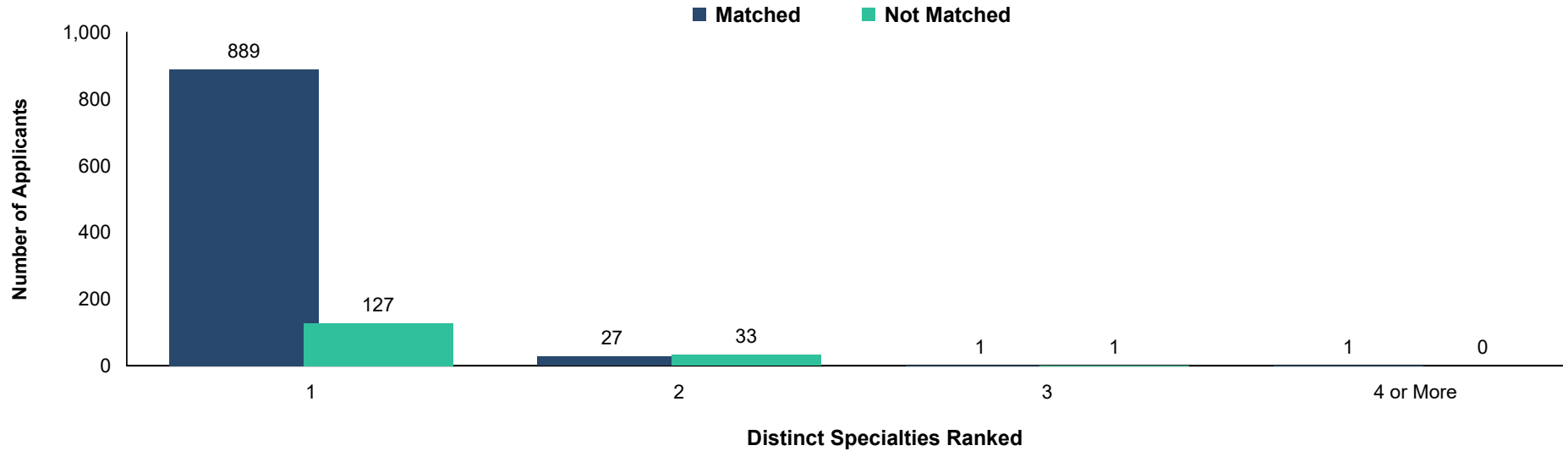
Measure	Matched (n=919)	Unmatched (n=161)
1. Mean number of contiguous ranks	13.1	5.2
2. Mean number of distinct specialties ranked	1.0	1.2
3. Mean USMLE Step 1 score	236	219
4. Mean USMLE Step 2 score	248	233
5. Mean number of research experiences	3.6	3.1
6. Mean number of abstracts, presentations,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

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

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

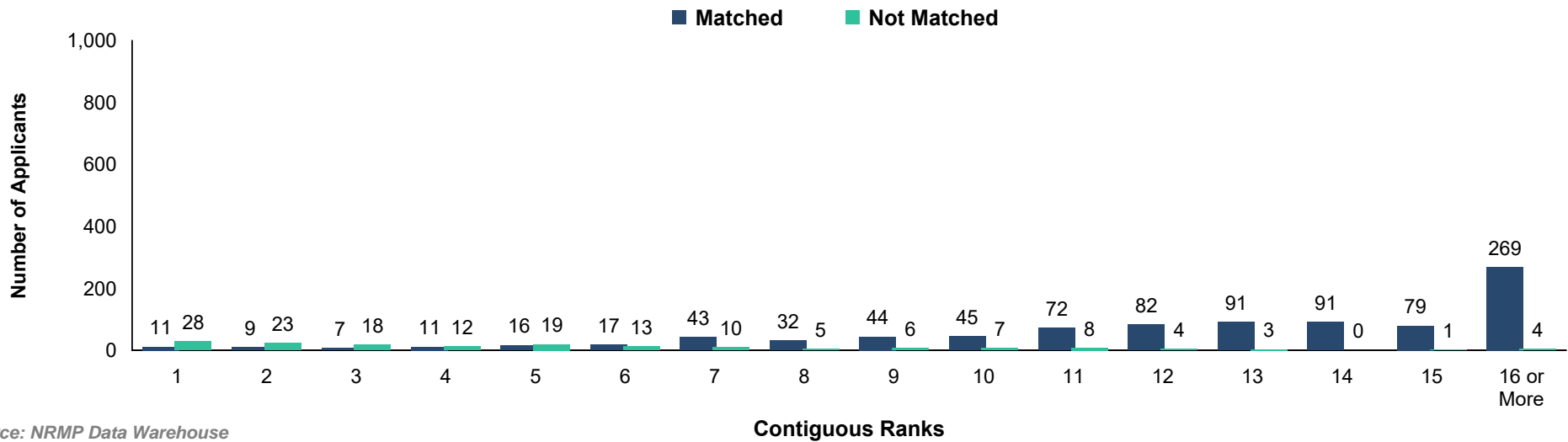
**Chart  
GS-1**

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



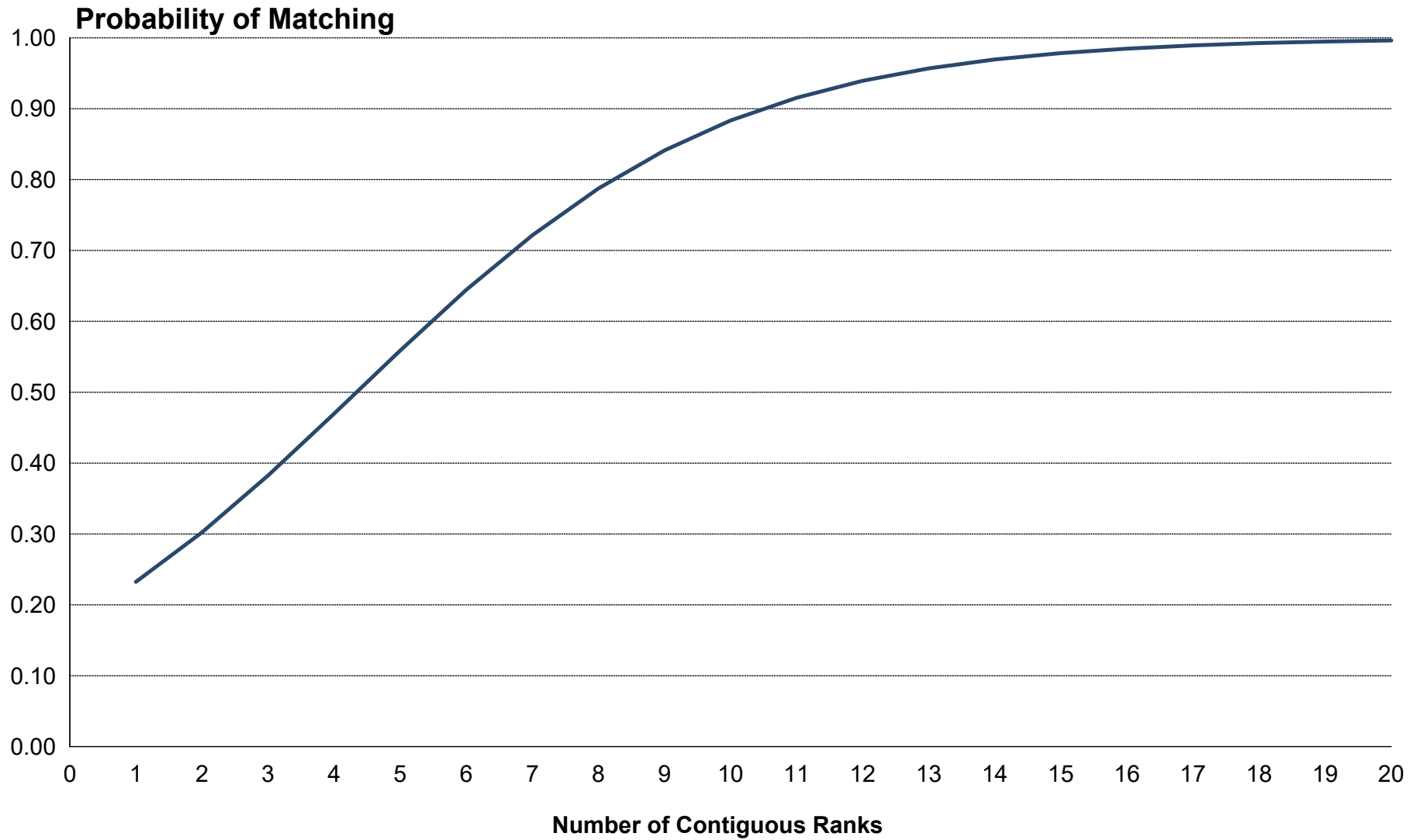
**Chart  
GS-2**

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



Source: NRMP Data Warehouse

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

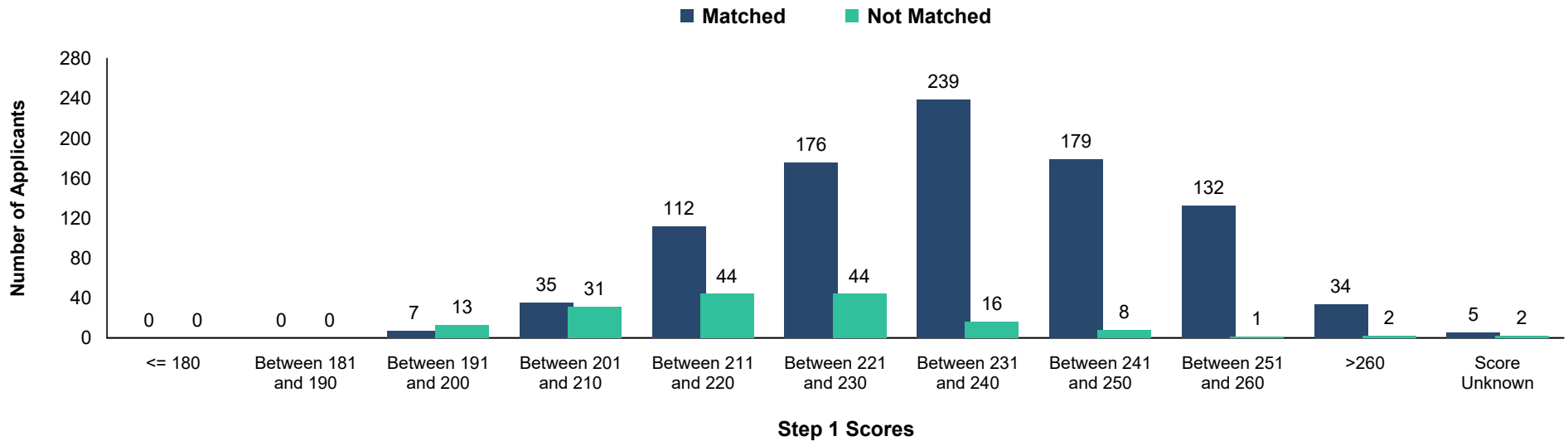


Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants



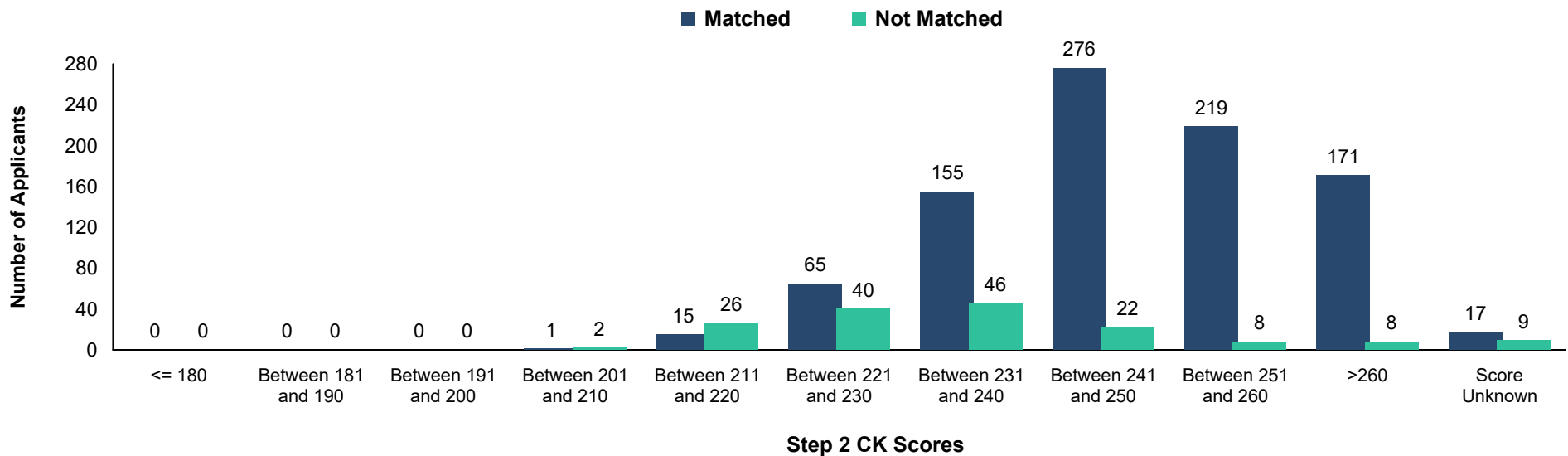
**Chart  
GS-3**

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

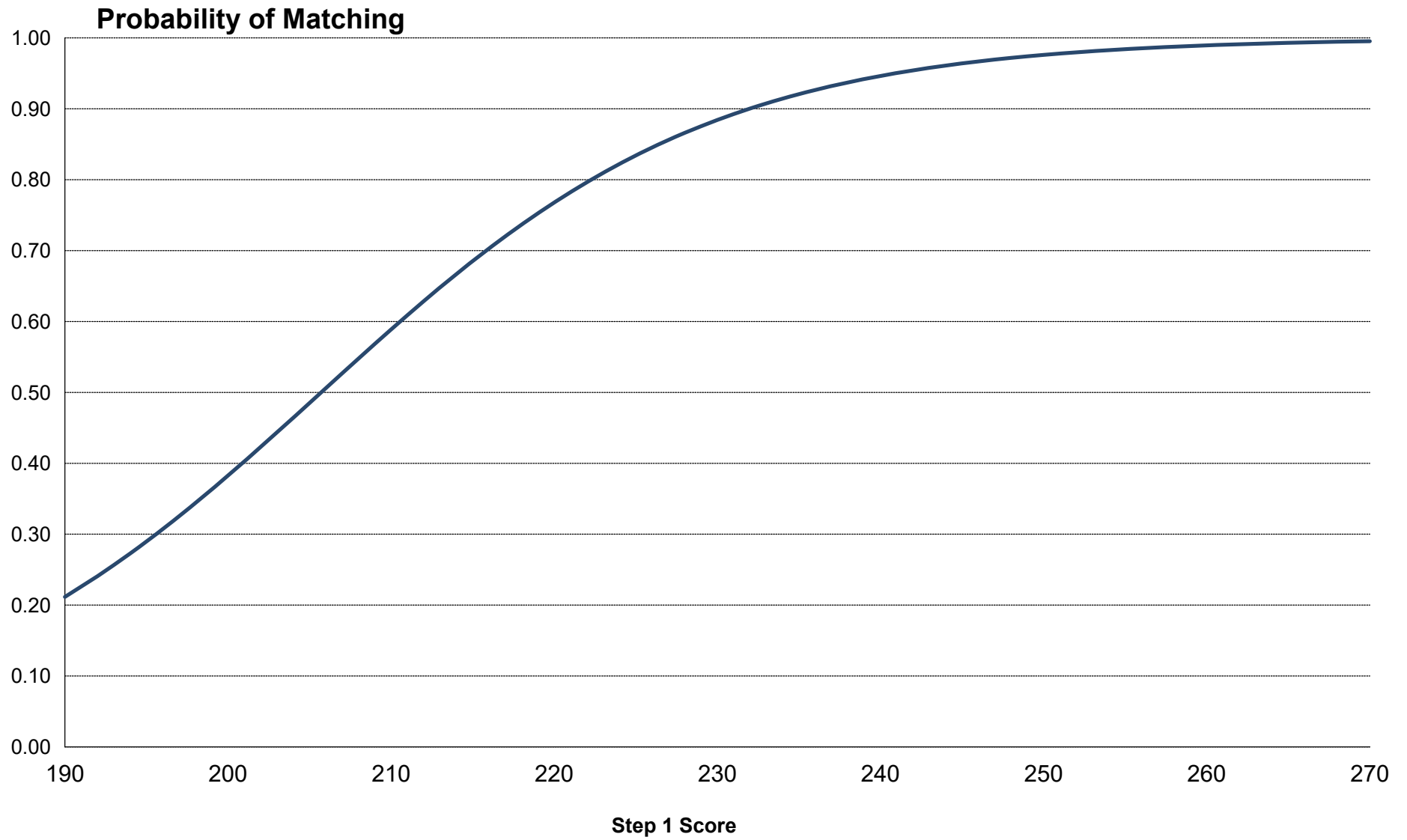


**Chart  
GS-4**

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



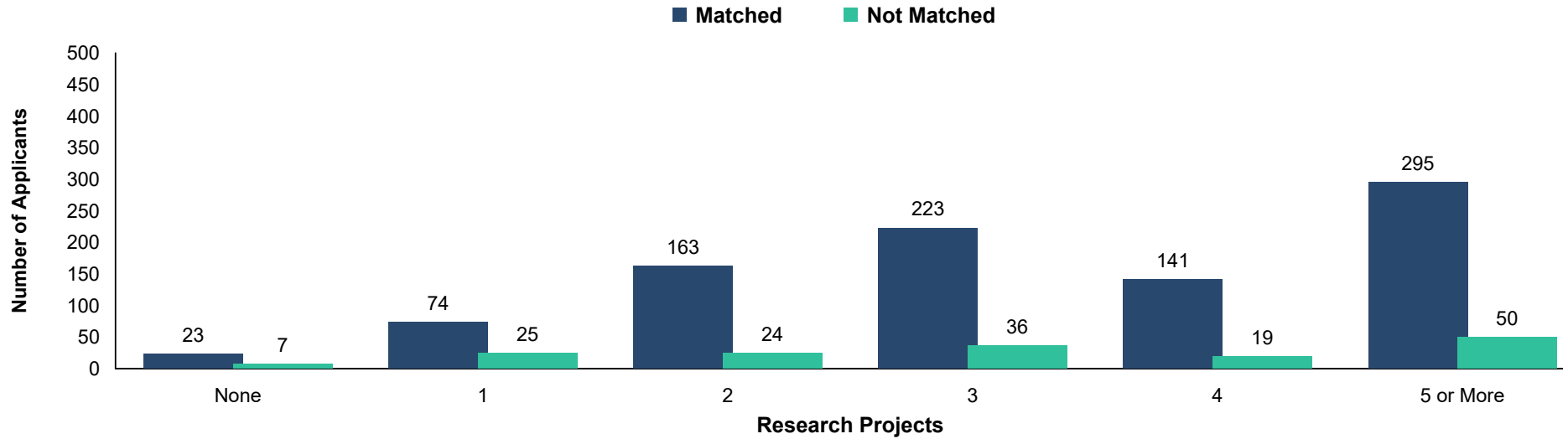
## Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *General Surgery*



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

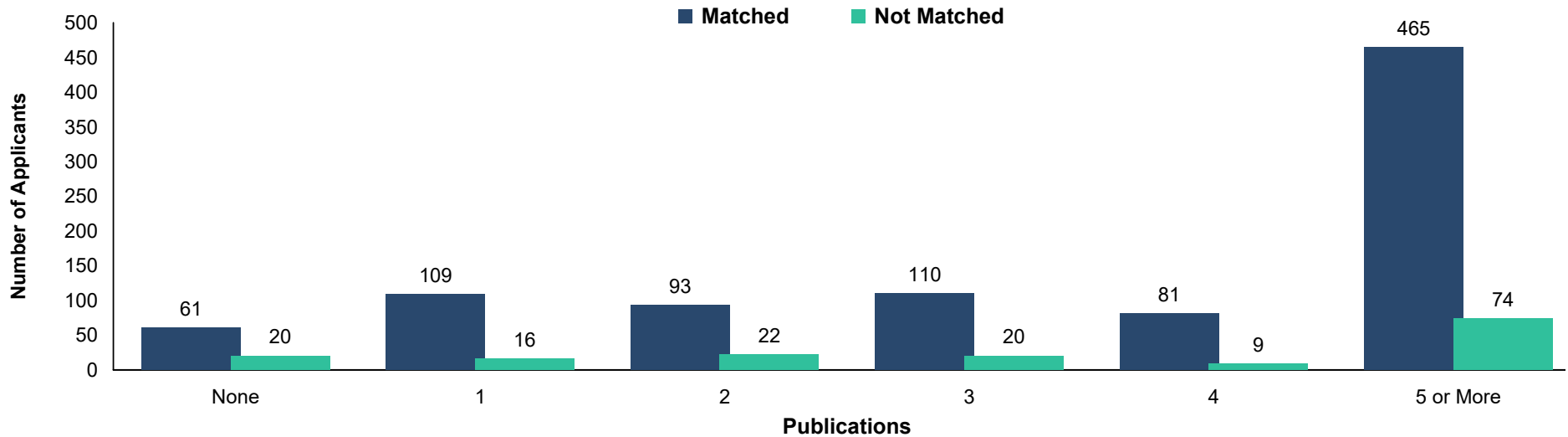
**Chart  
GS-5**

### Number of Research Projects of U.S. Allopathic Seniors General Surgery



**Chart  
GS-6**

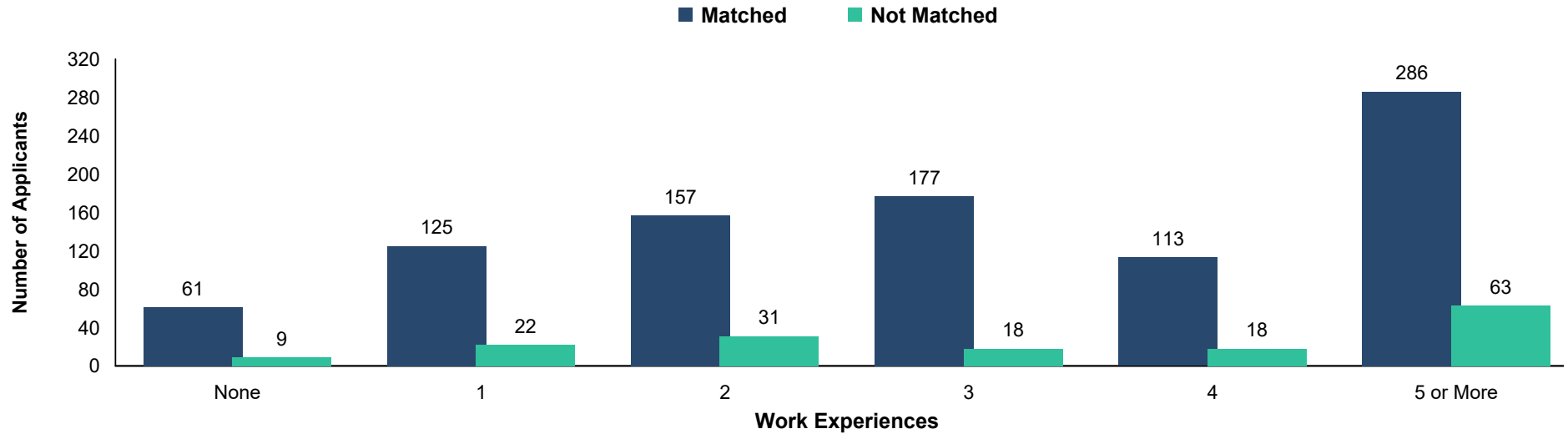
### Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors General Surgery



Source: NRMP Data Warehouse

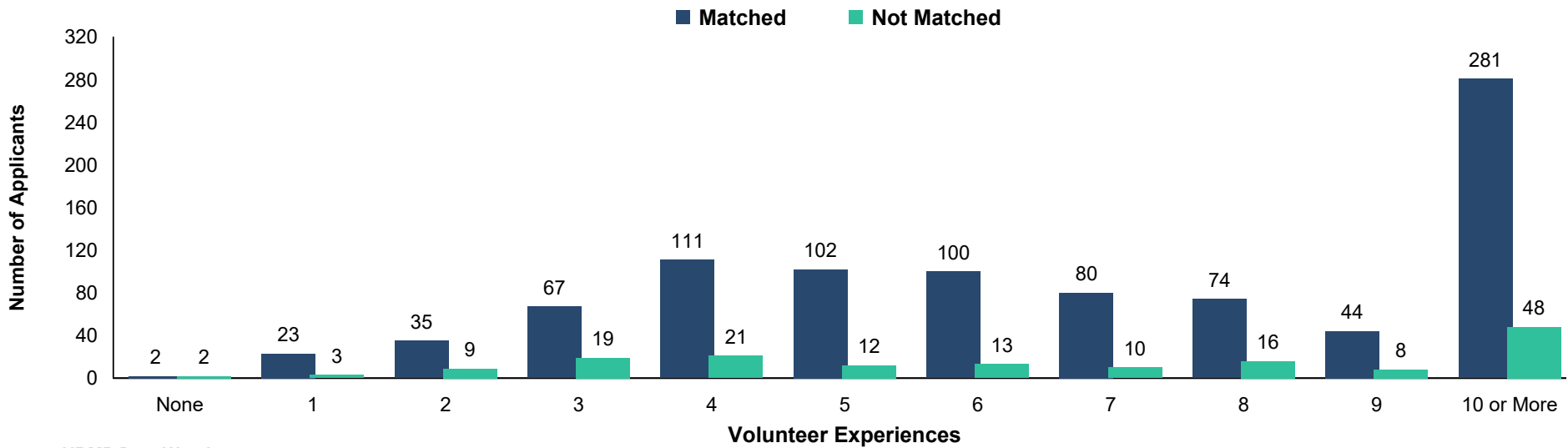
**Chart  
GS-7**

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



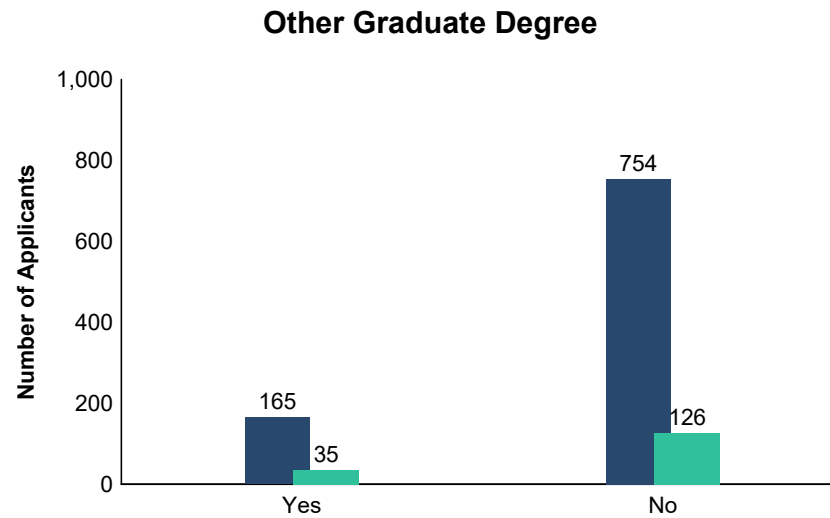
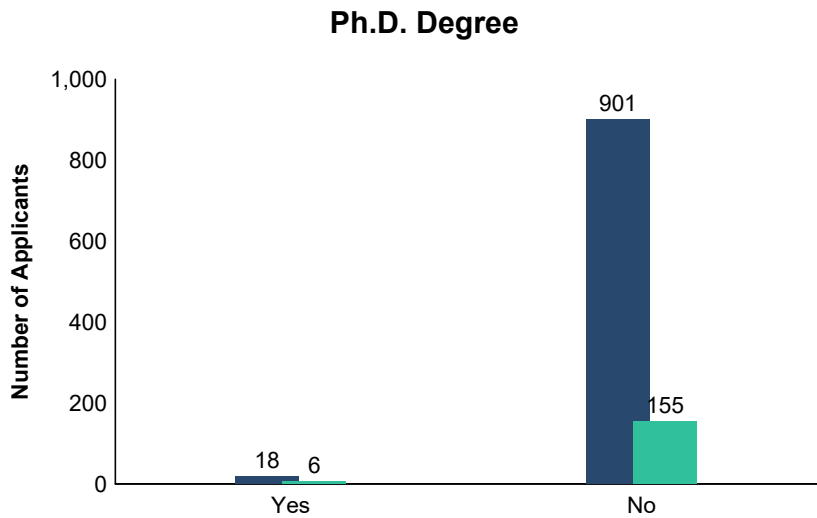
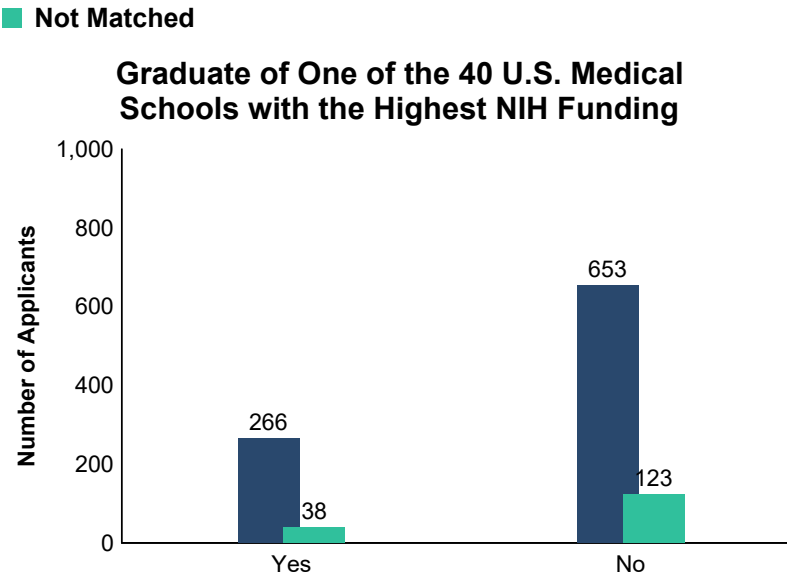
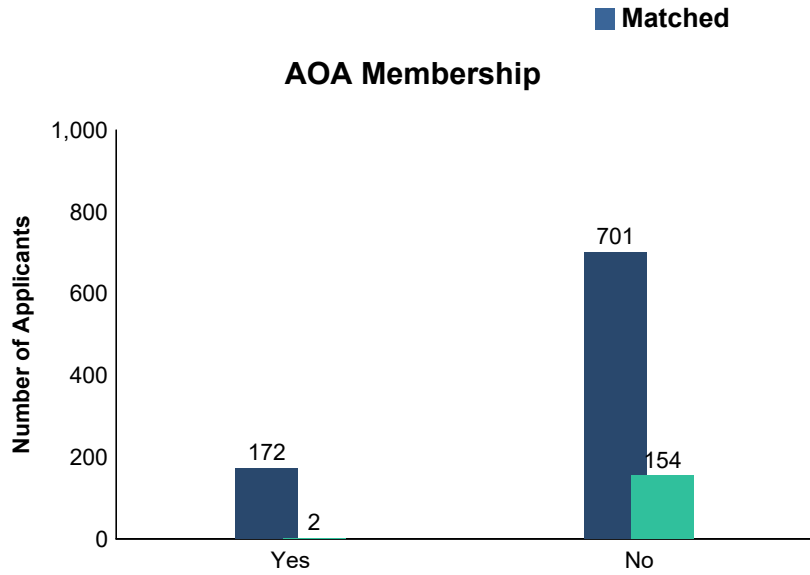
**Chart  
GS-8**

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



Source: NRMP Data Warehouse

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



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

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**IM**

**Internal Medicine**

**Table  
IM-1****Summary Statistics on U.S. Allopathic Seniors  
Internal Medicine**

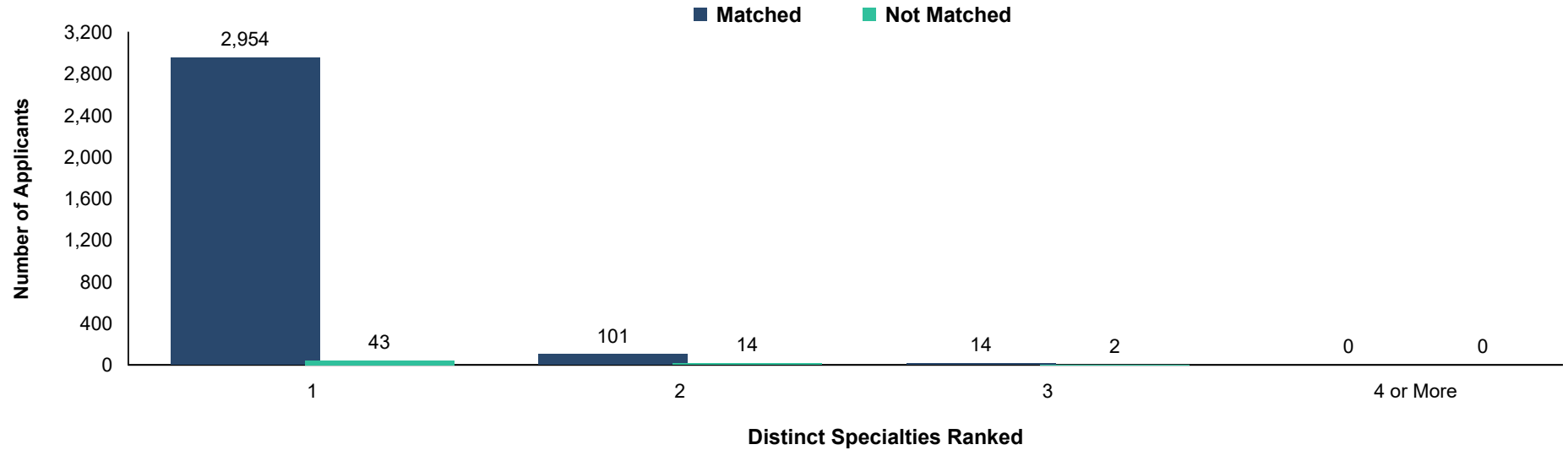
Measure	Matched (n=3,070)	Unmatched (n=59)
1. Mean number of contiguous ranks	12.6	3.6
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	233	207
4. Mean USMLE Step 2 score	246	223
5. Mean number of research experiences	3.1	2.1
6. Mean number of abstracts, presentations,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

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

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

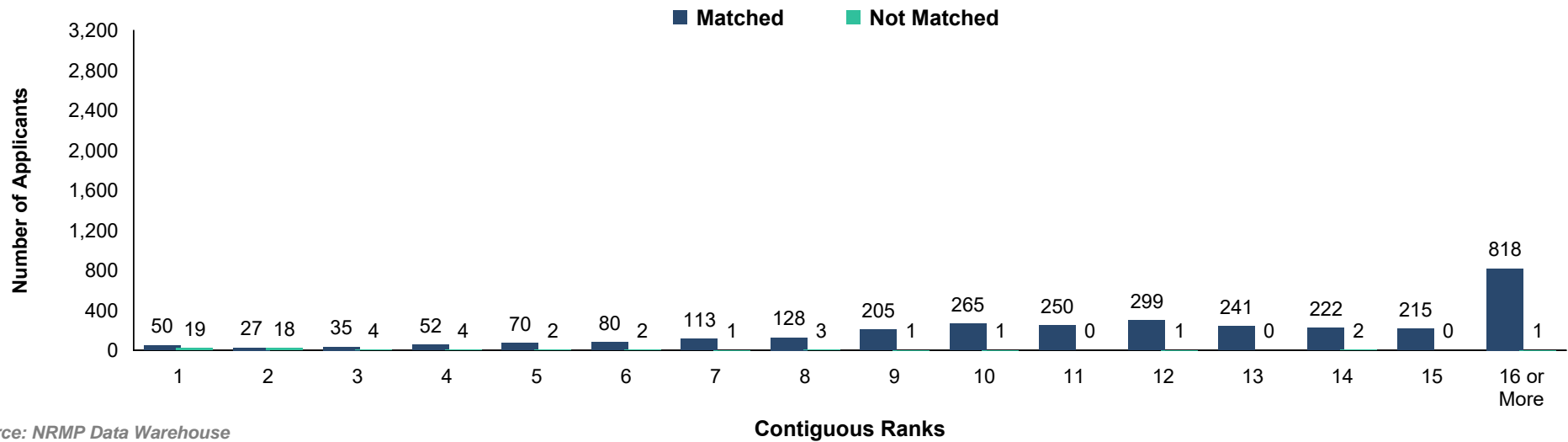
**Chart  
IM-1**

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



**Chart  
IM-2**

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

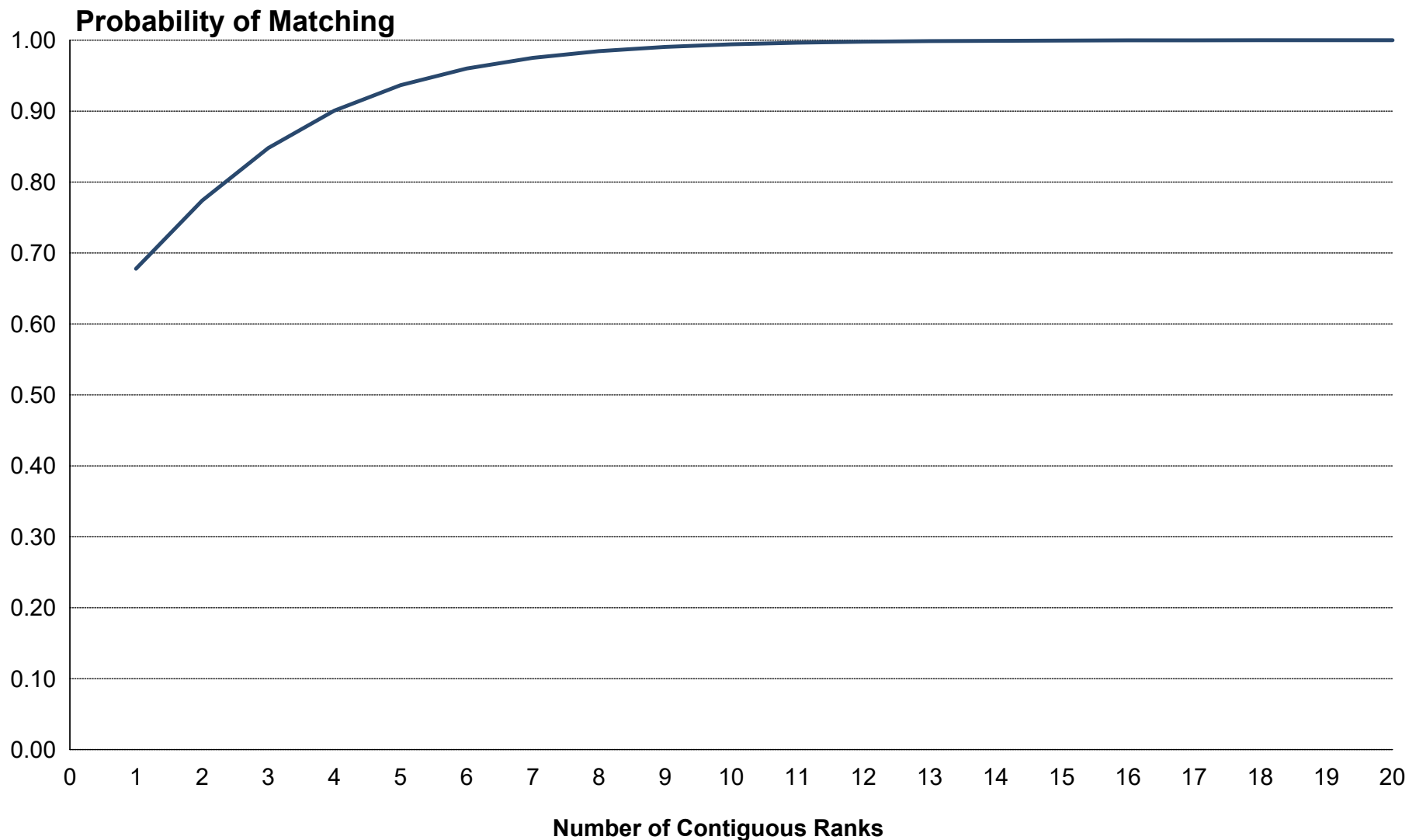


Source: NRMP Data Warehouse



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

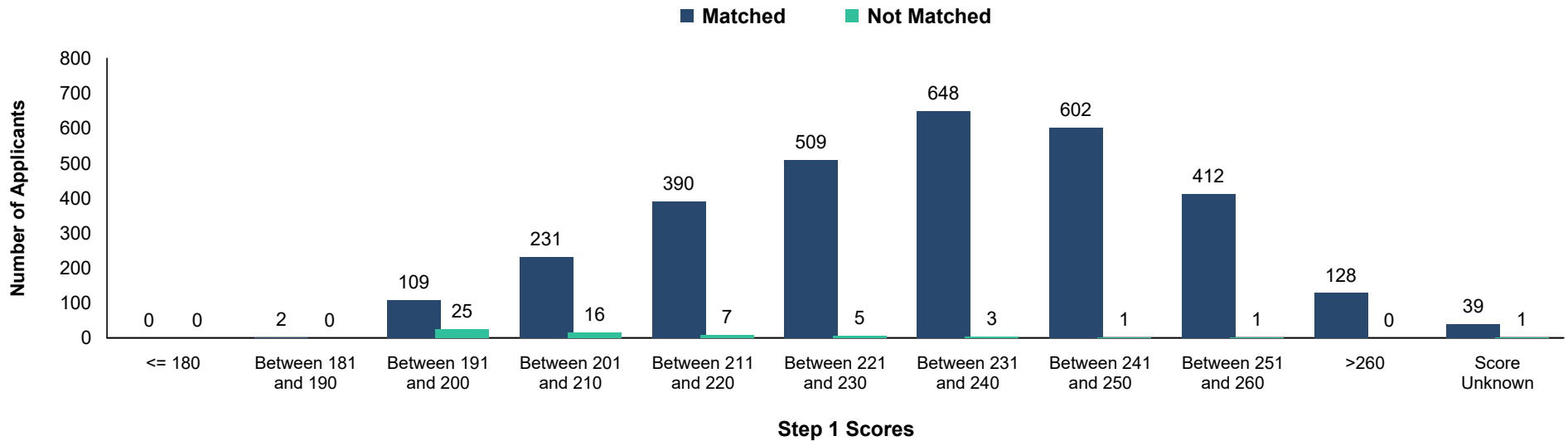
*Internal Medicine*



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

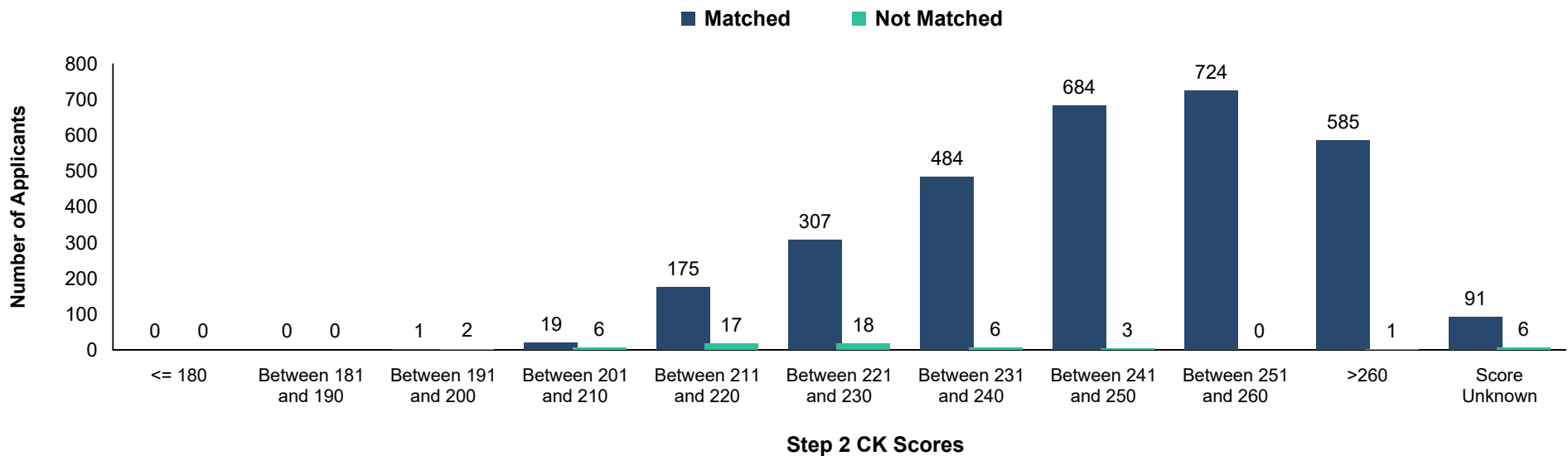
**Chart  
IM-3**

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

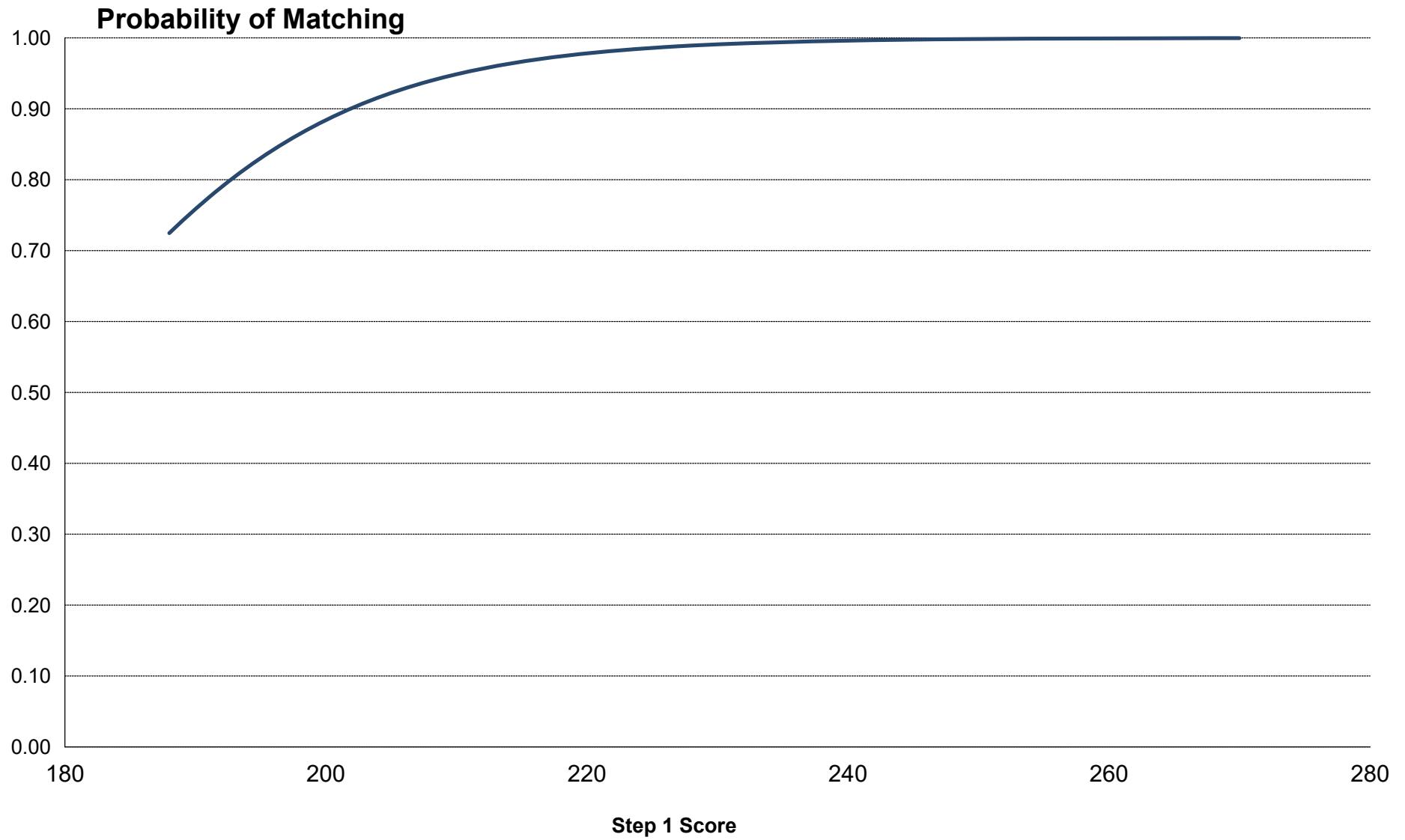


**Chart  
IM-4**

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



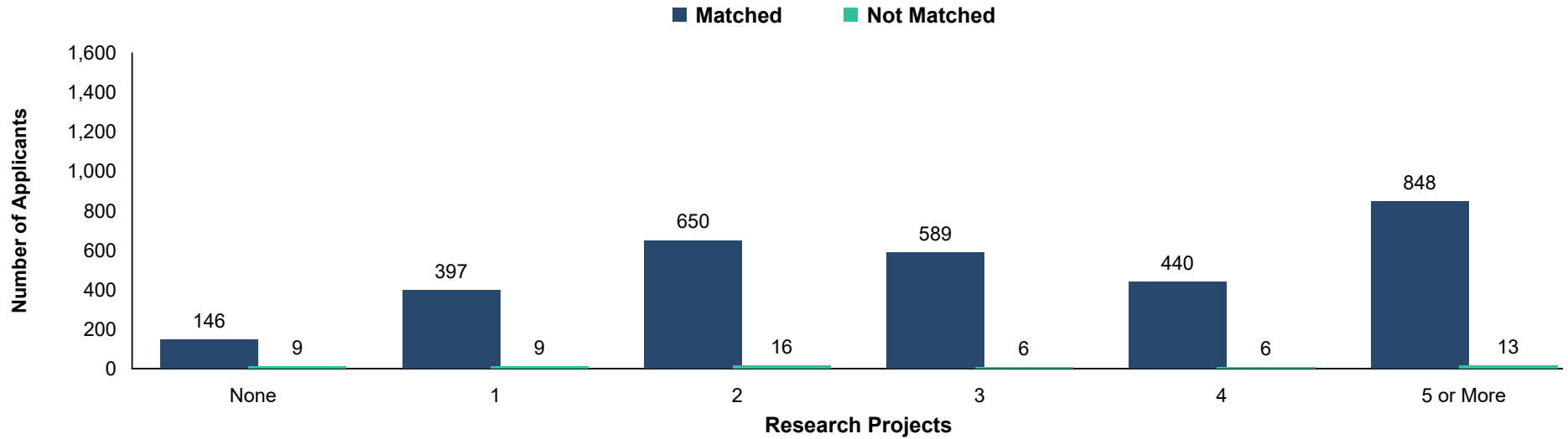
## Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *Internal Medicine*



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

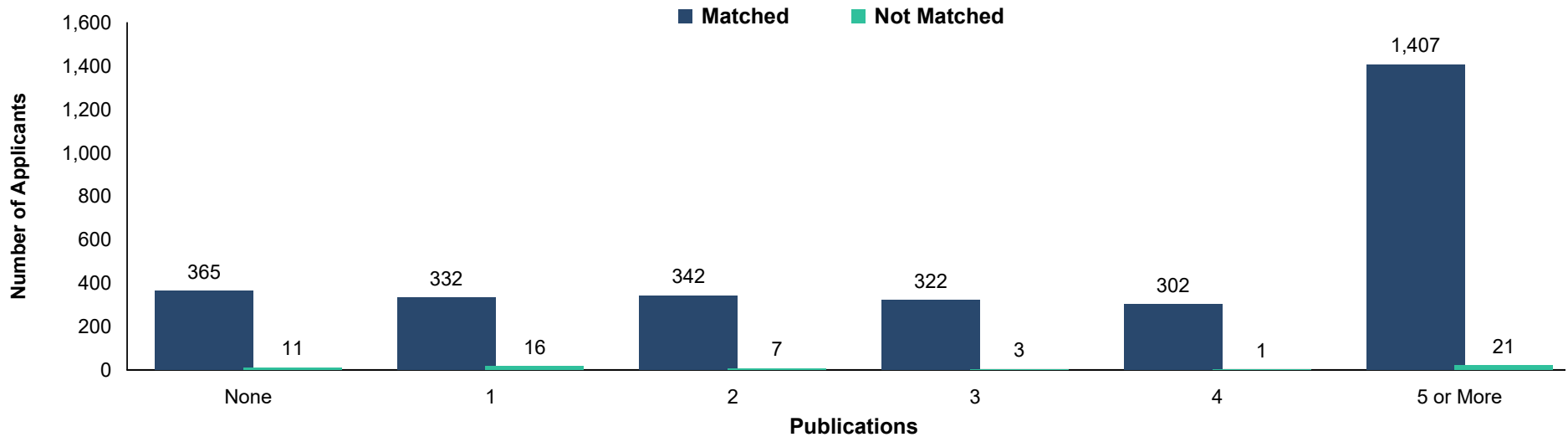
**Chart  
IM-5**

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



**Chart  
IM-6**

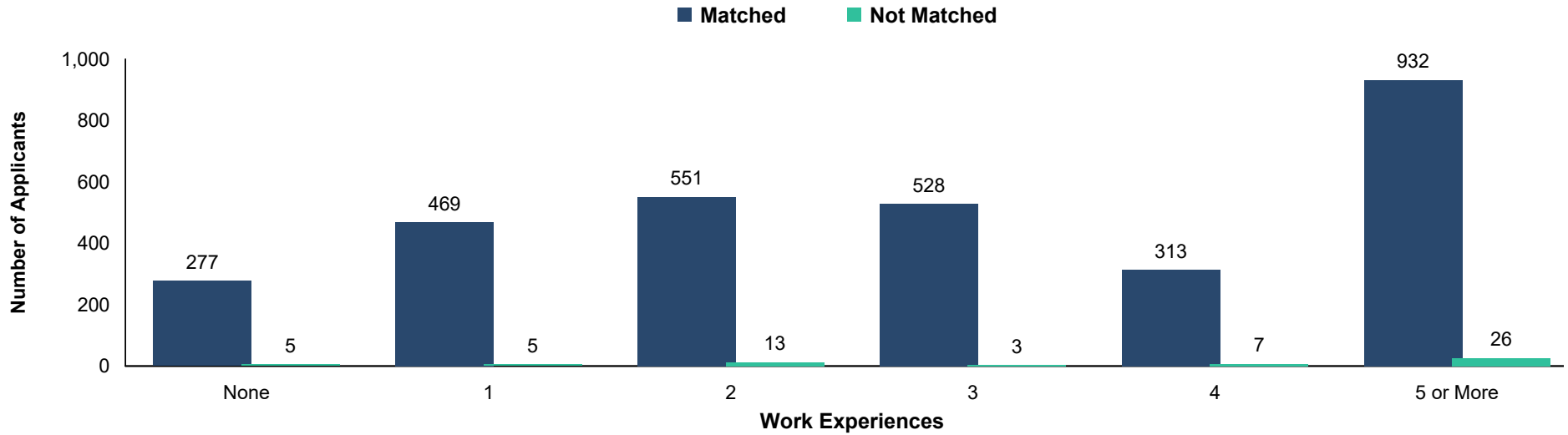
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Internal Medicine***



Source: NRMP Data Warehouse

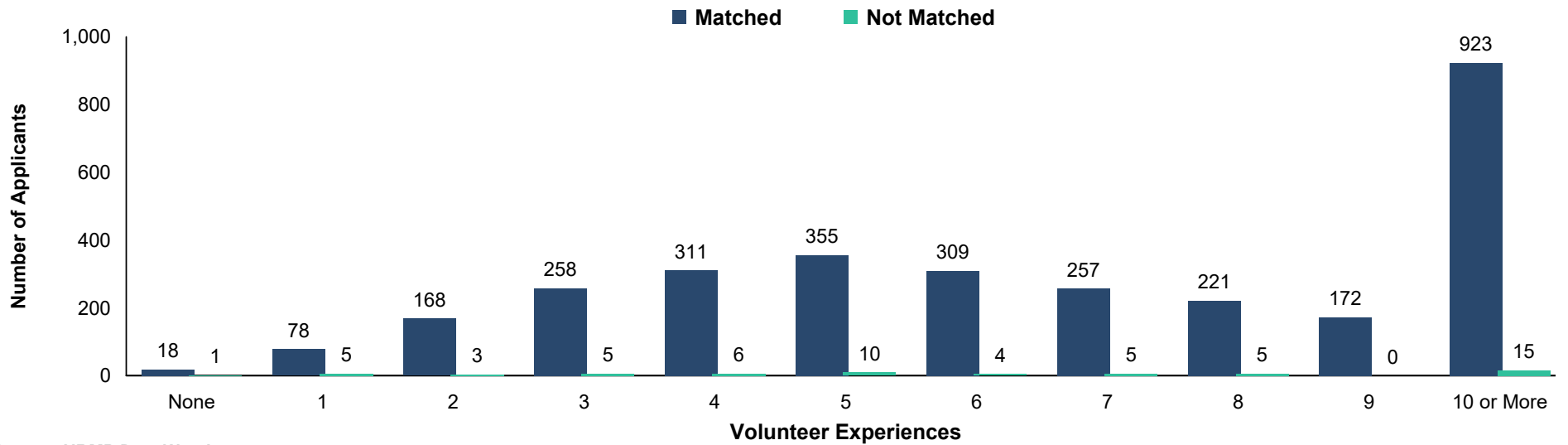
**Chart  
IM-7**

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



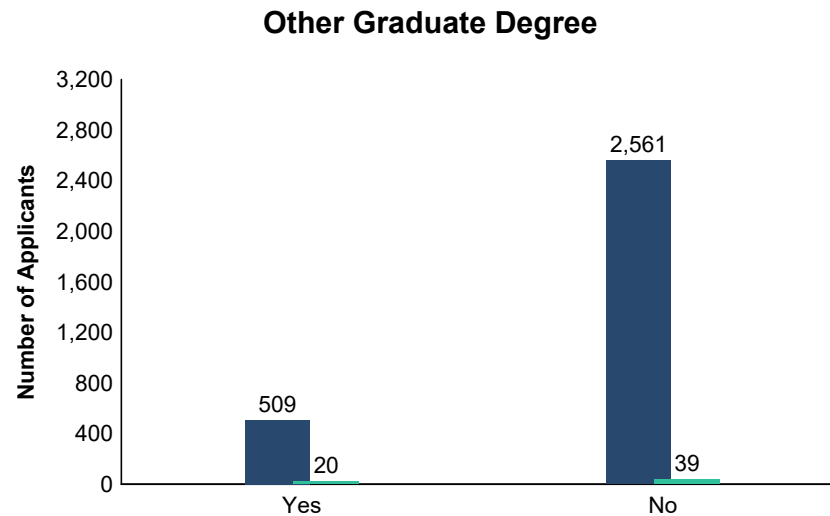
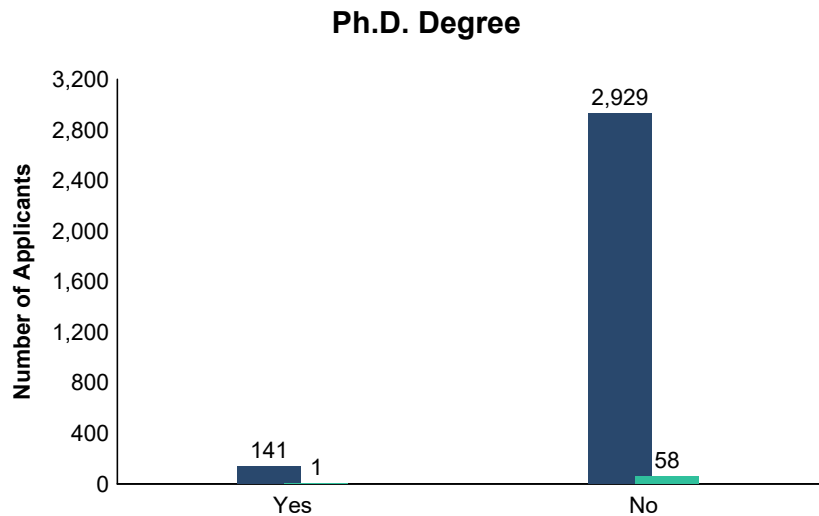
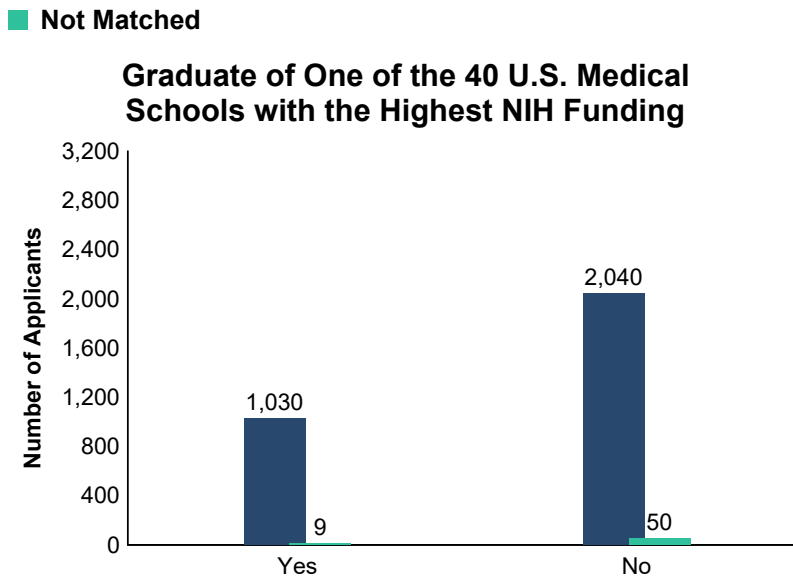
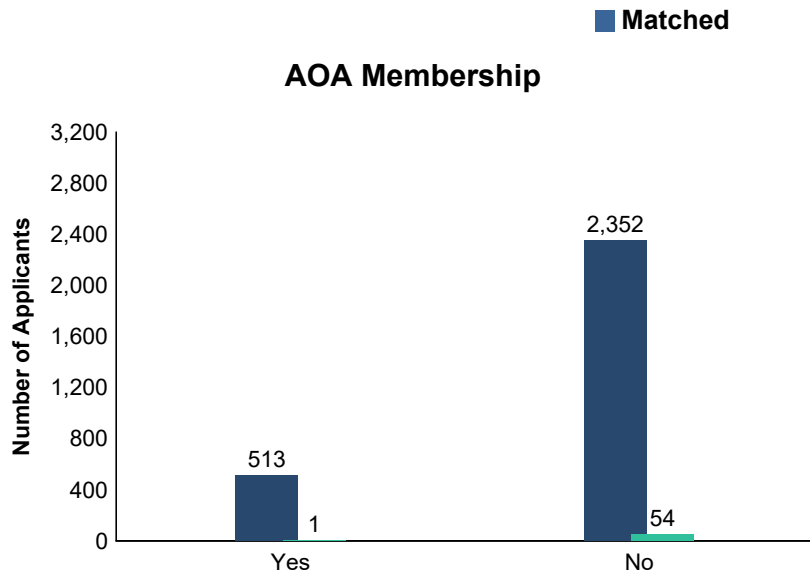
**Chart  
IM-8**

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



Source: NRMP Data Warehouse

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



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

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**IP**

**Internal Medicine/Pediatrics**

**Table  
IP-1****Summary Statistics on U.S. Allopathic Seniors  
Internal Medicine/Pediatrics**

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

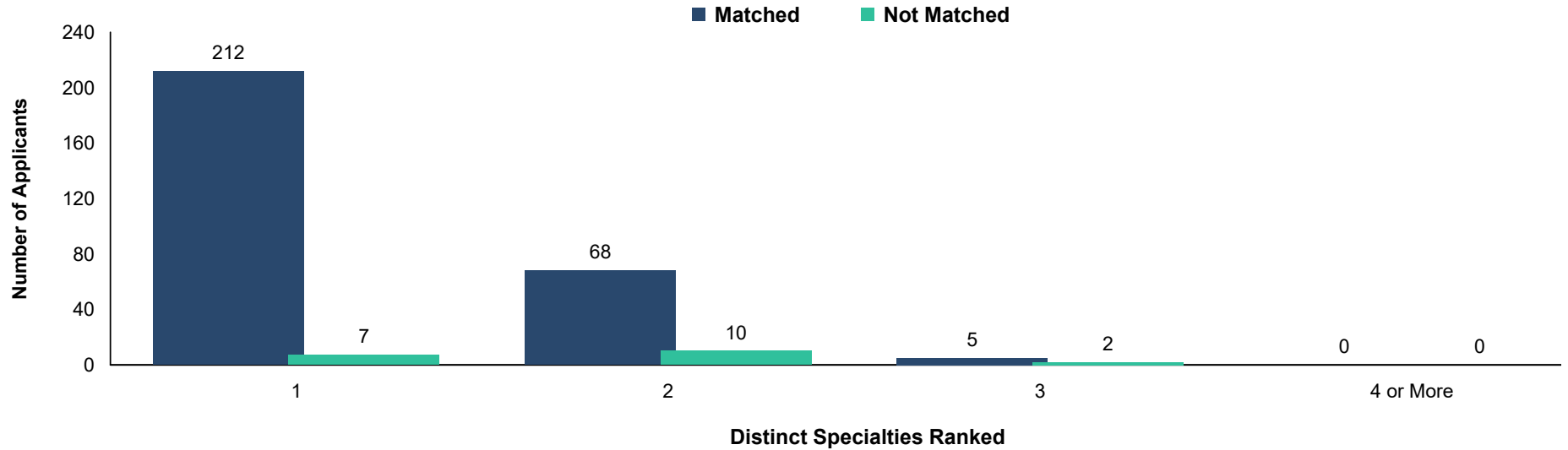
Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

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



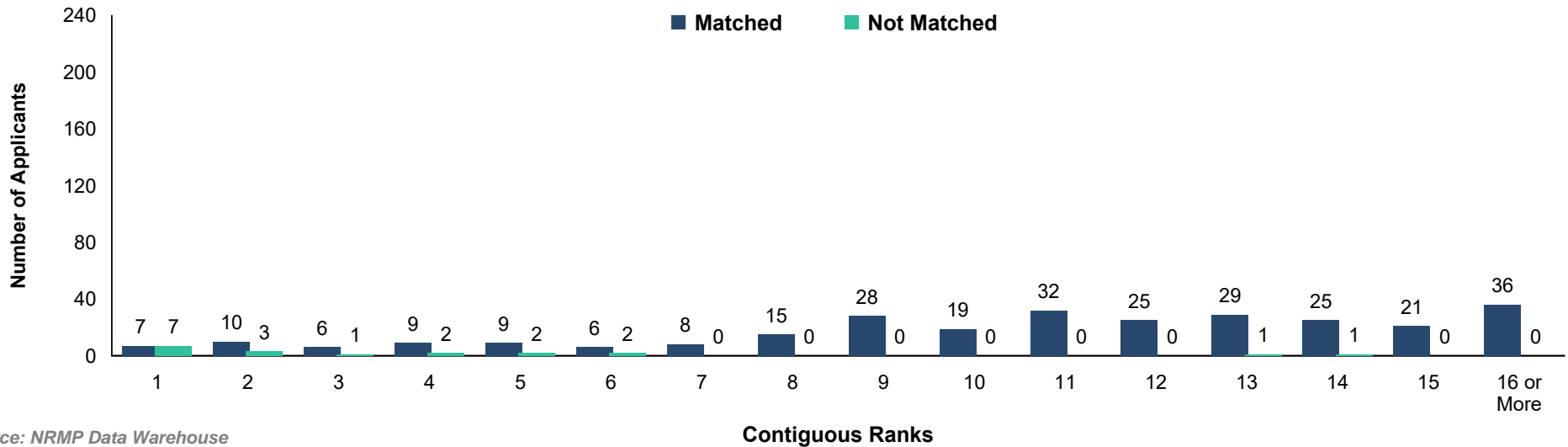
**Chart  
IP-1**

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



**Chart  
IP-2**

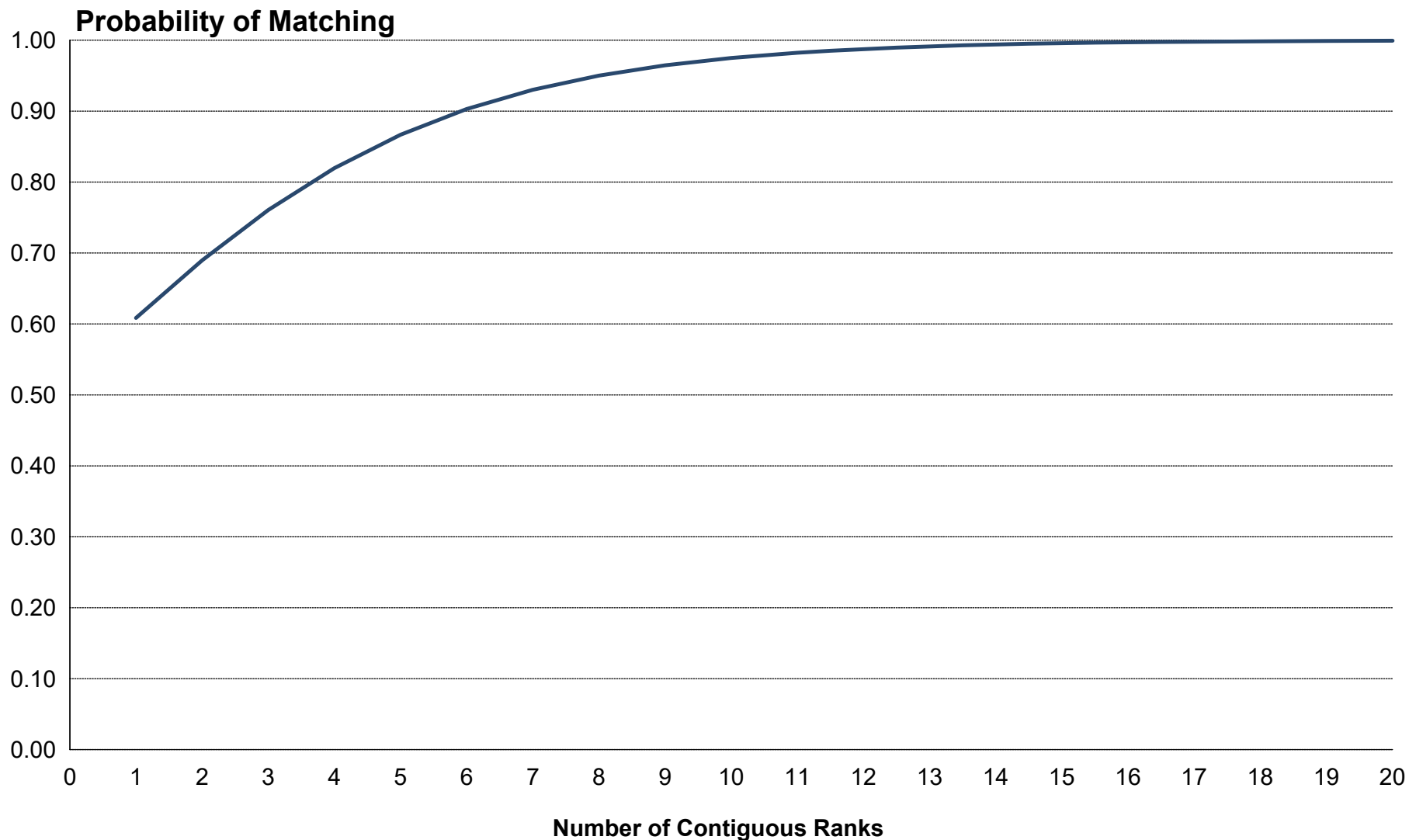
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Internal Medicine/Pediatrics***



Source: NRMP Data Warehouse

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

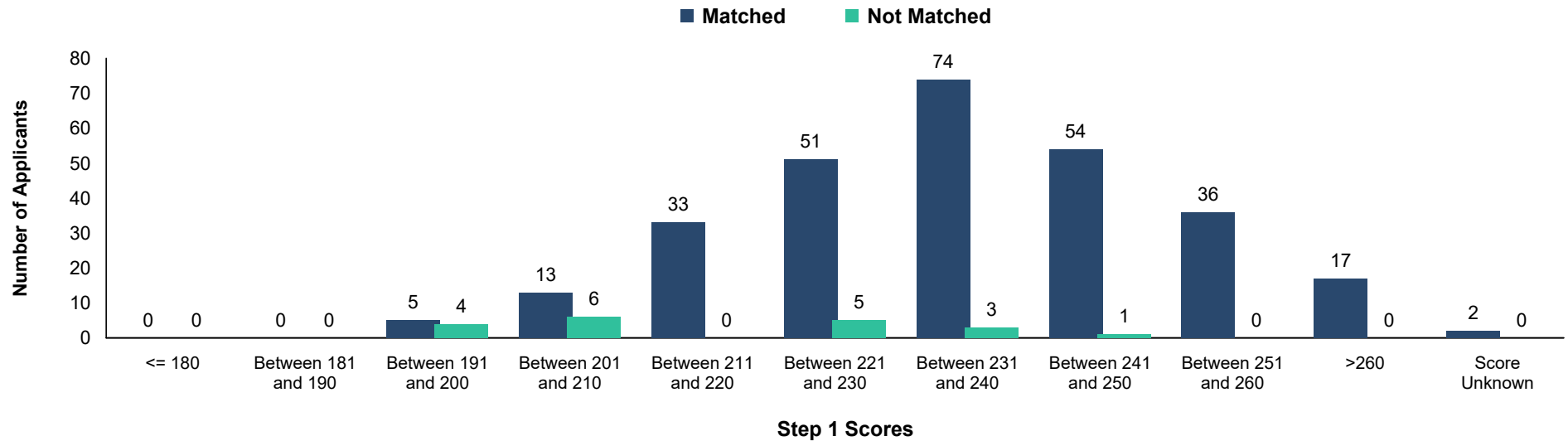
*Internal Medicine/Pediatrics*



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

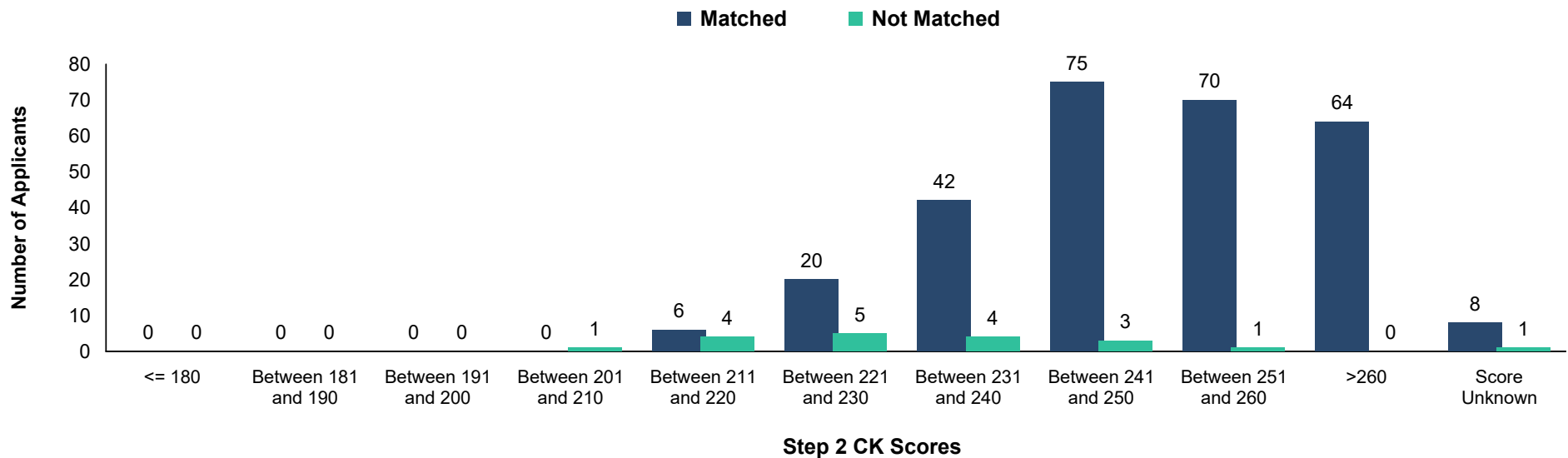
**Chart  
IP-3**

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

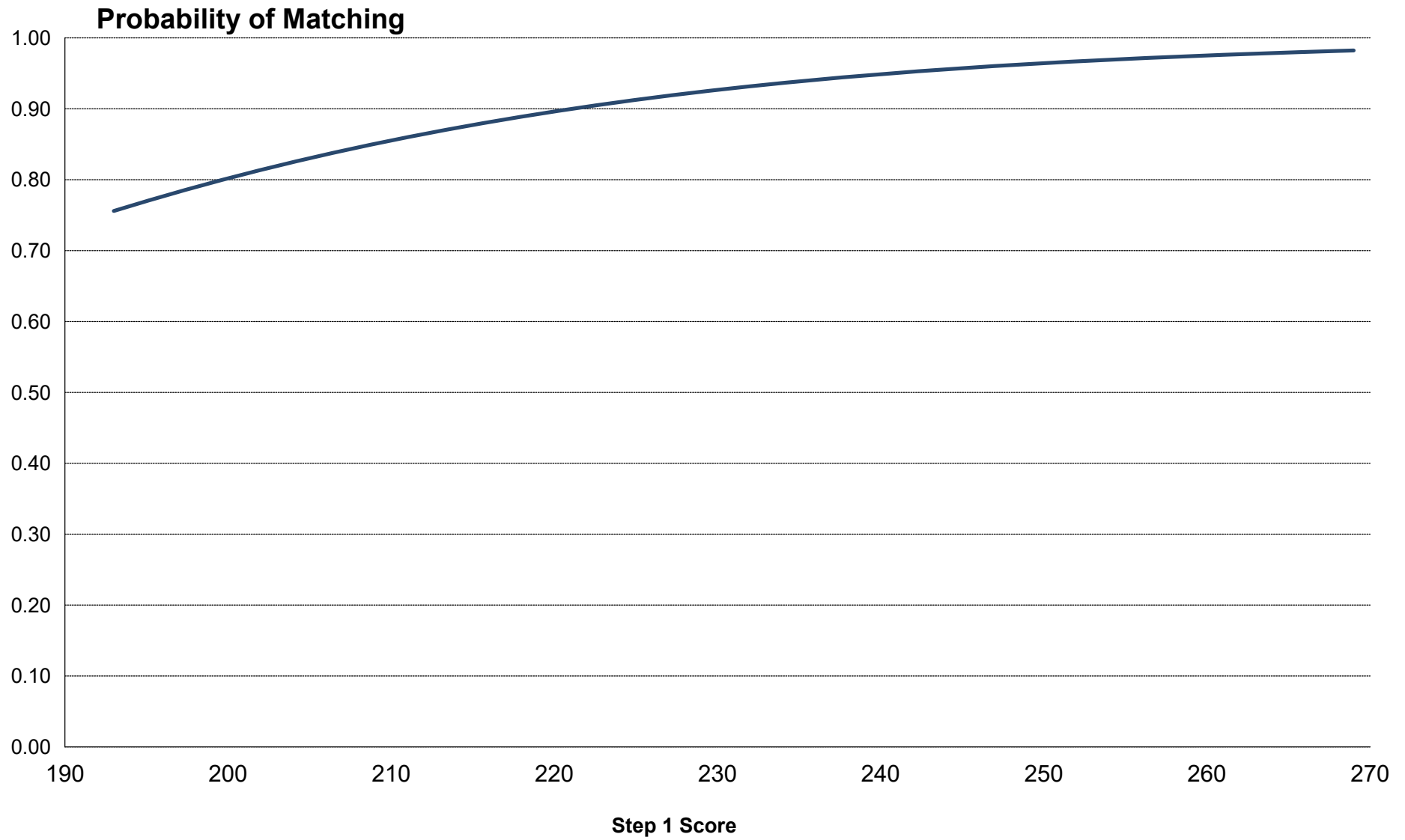


**Chart  
IP-4**

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



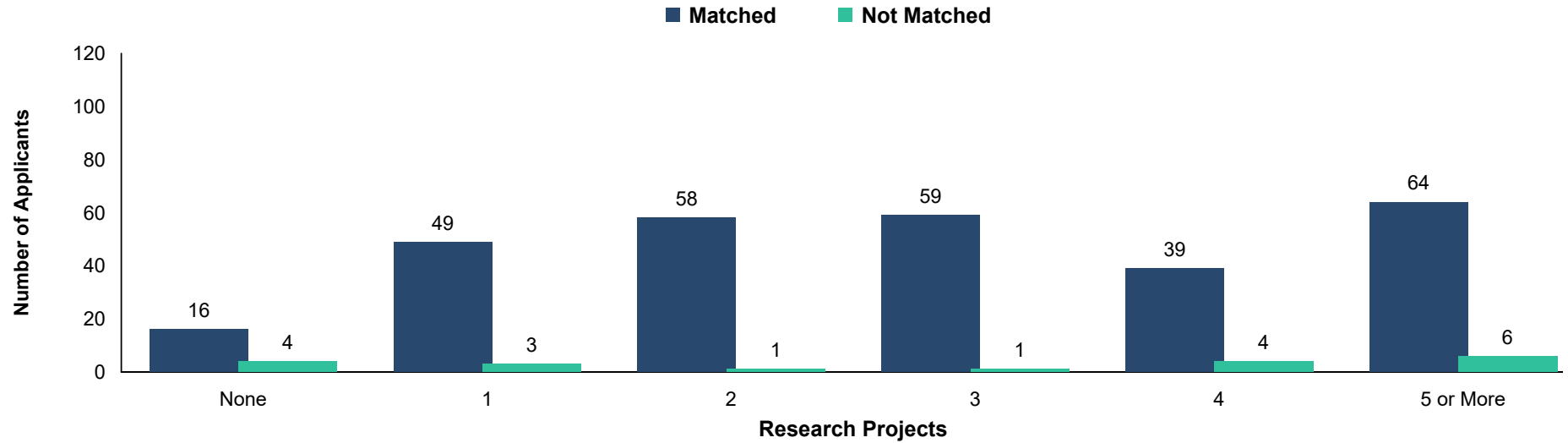
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score**  
*Internal Medicine/Pediatrics*



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

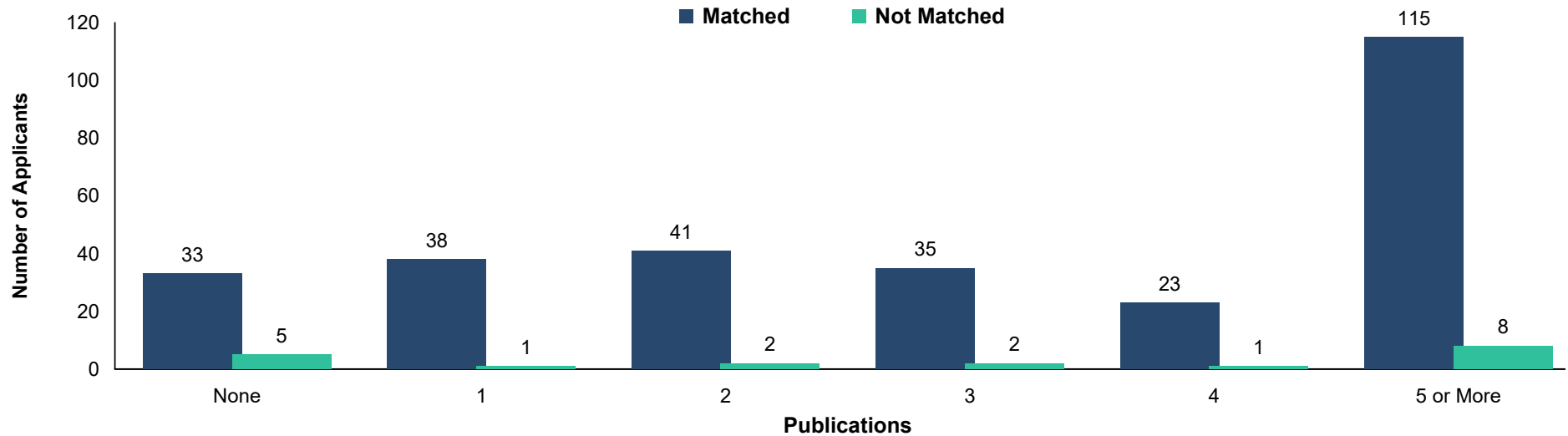
**Chart  
IP-5**

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



**Chart  
IP-6**

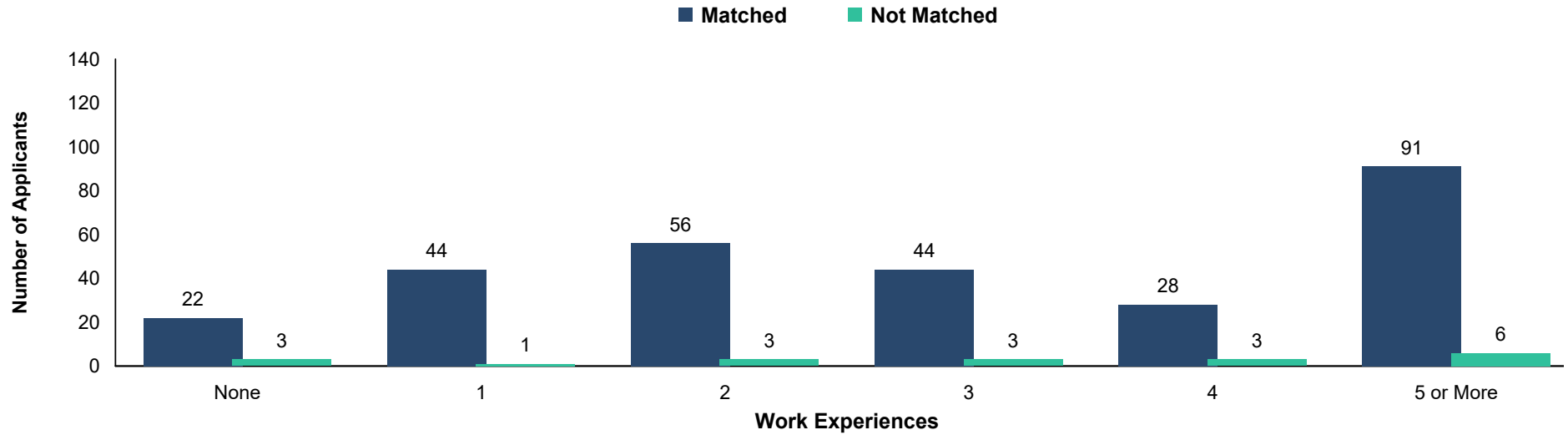
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Internal Medicine/Pediatrics***



Source: NRMP Data Warehouse

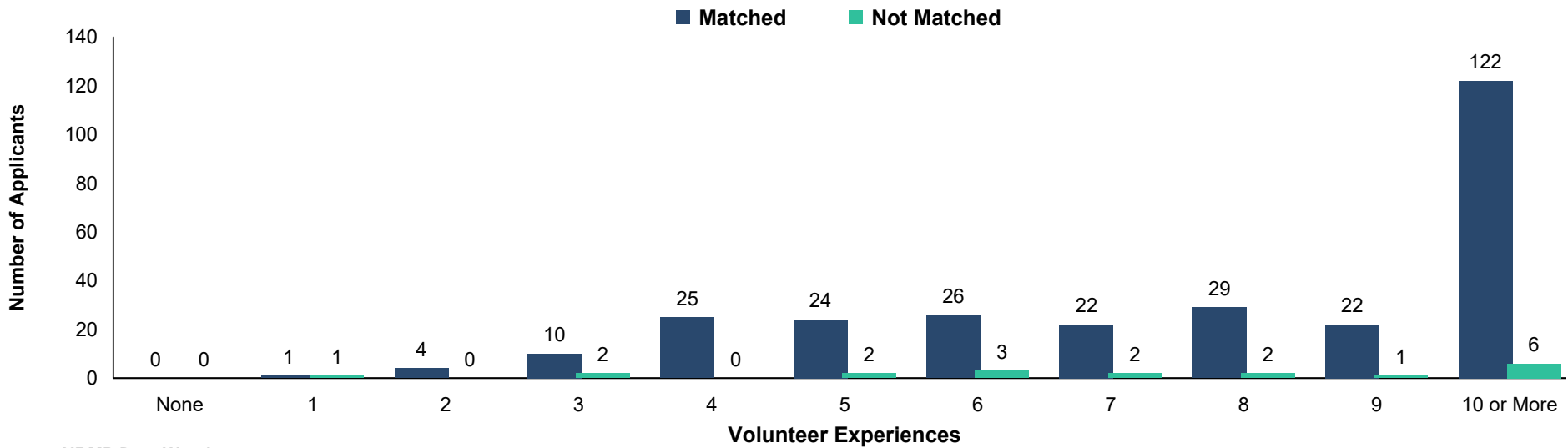
**Chart  
IP-7**

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



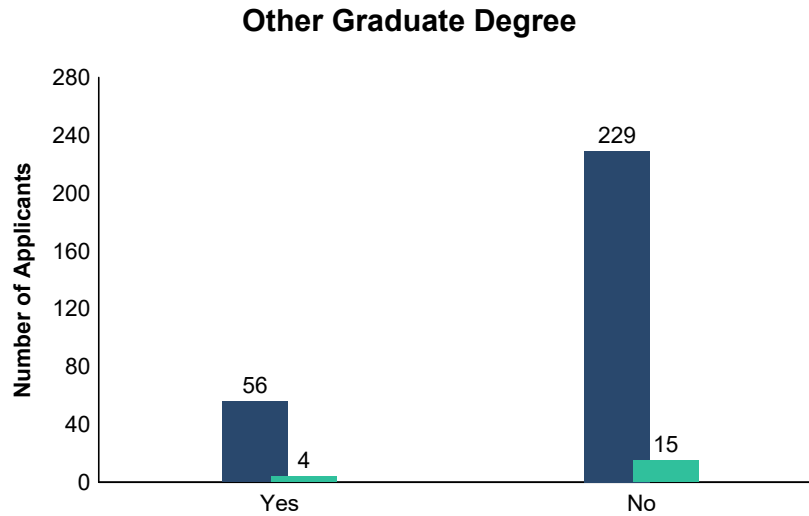
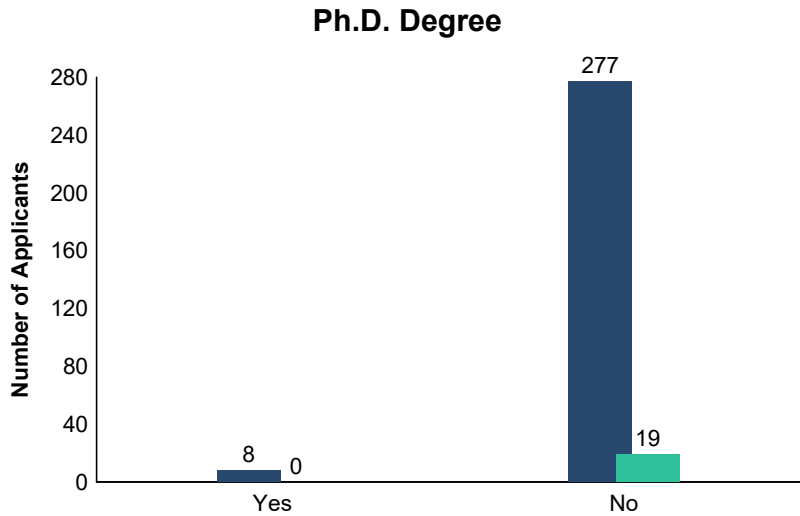
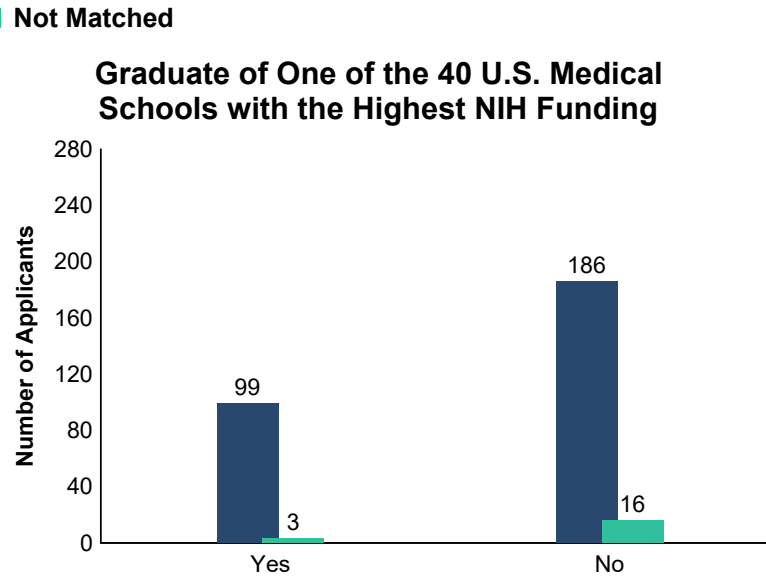
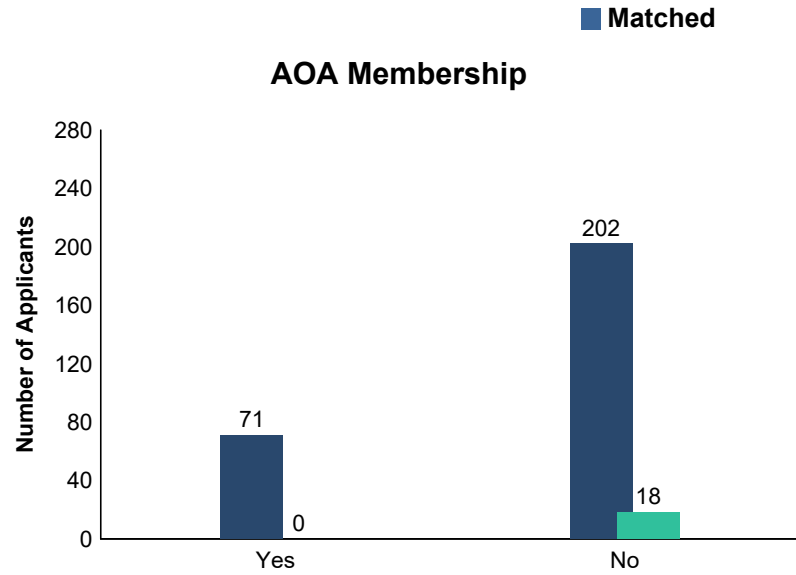
**Chart  
IP-8**

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



Source: NRMP Data Warehouse

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



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

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**IR** **Interventional Radiology**



**Table  
IR-1****Summary Statistics on U.S. Allopathic Seniors  
Interventional Radiology**

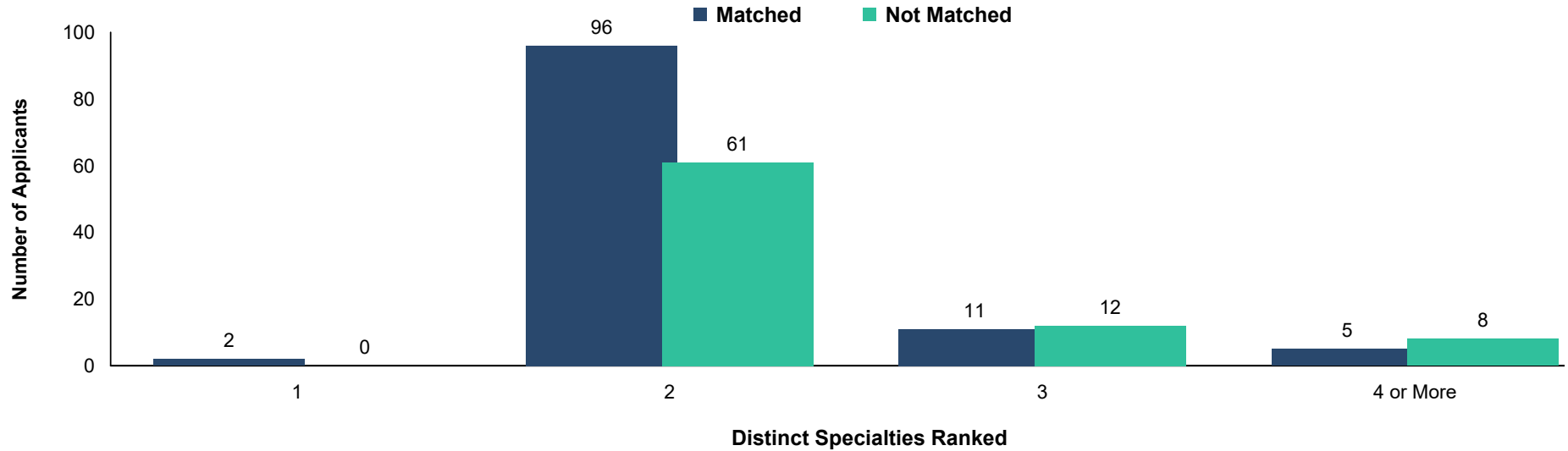
Measure	Matched (n=118)	Unmatched (n=83)
1. Mean number of contiguous ranks	5.4	2.5
2. Mean number of distinct specialties ranked	2.3	2.4
3. Mean USMLE Step 1 score	246	242
4. Mean USMLE Step 2 score	255	248
5. Mean number of research experiences	4.4	3.8
6. Mean number of abstracts, presentations, and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

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

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

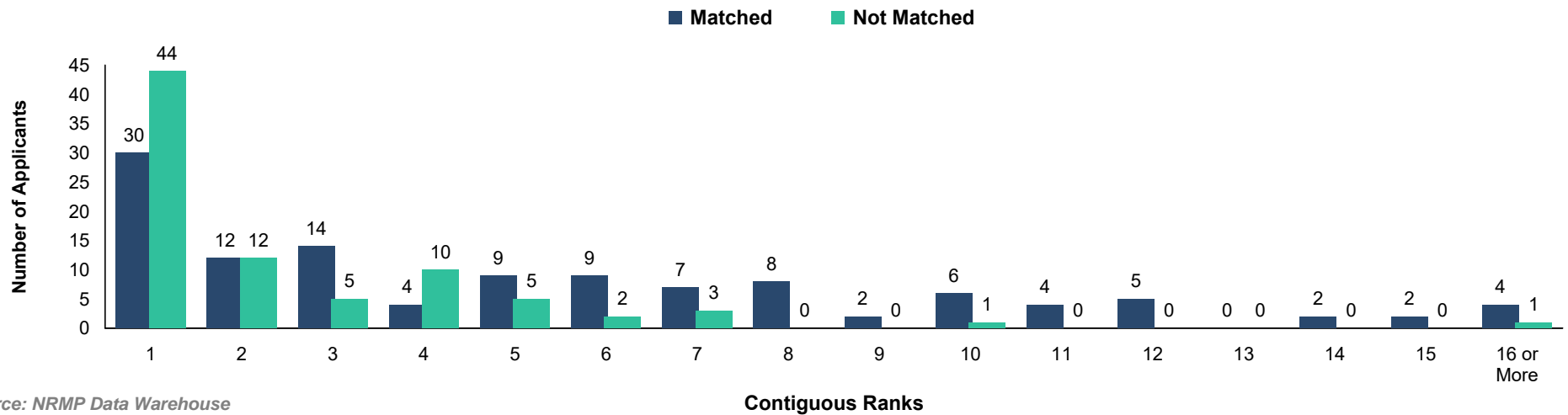
**Chart  
IR-1**

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



**Chart  
IR-2**

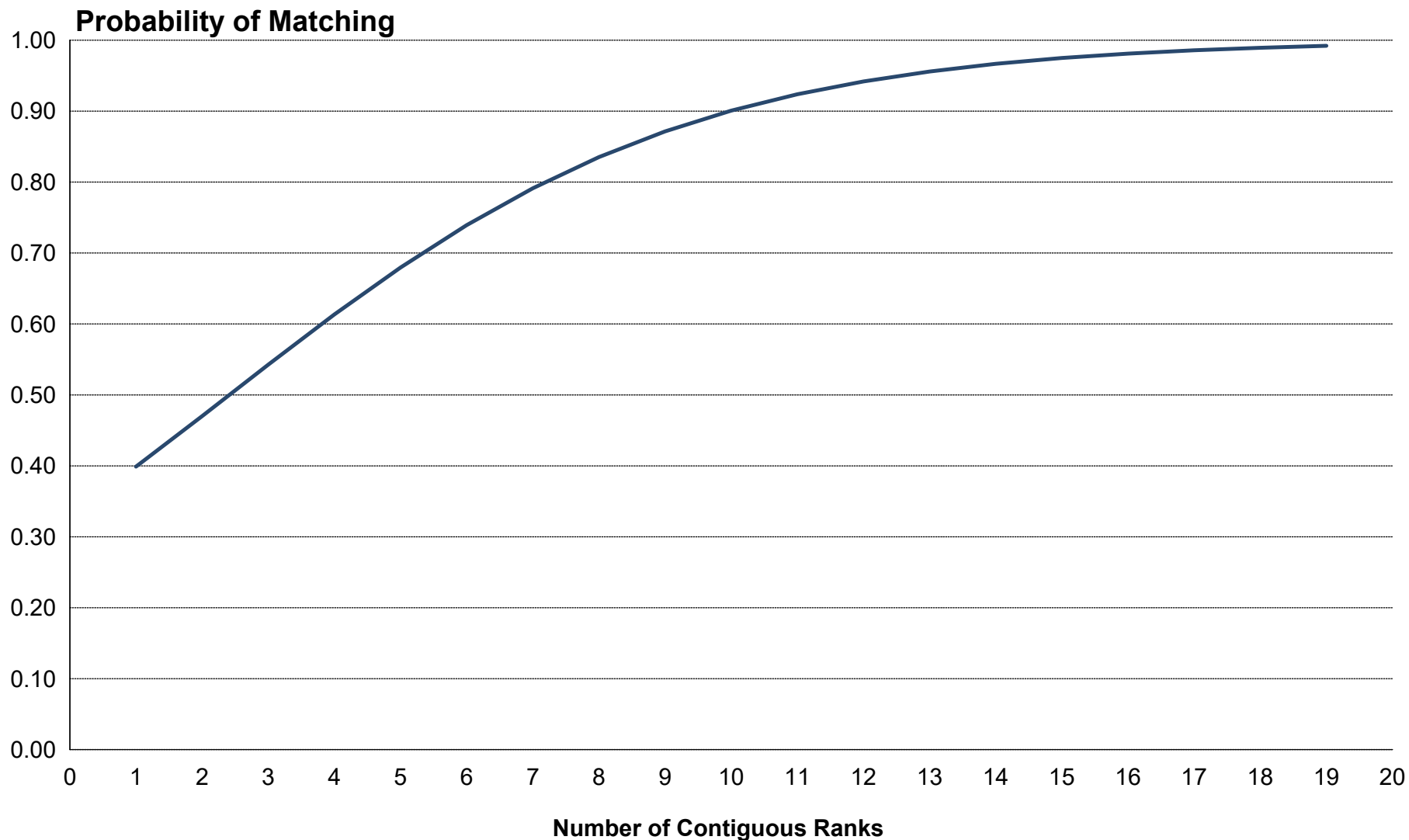
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Interventional Radiology***



Source: NRMP Data Warehouse

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

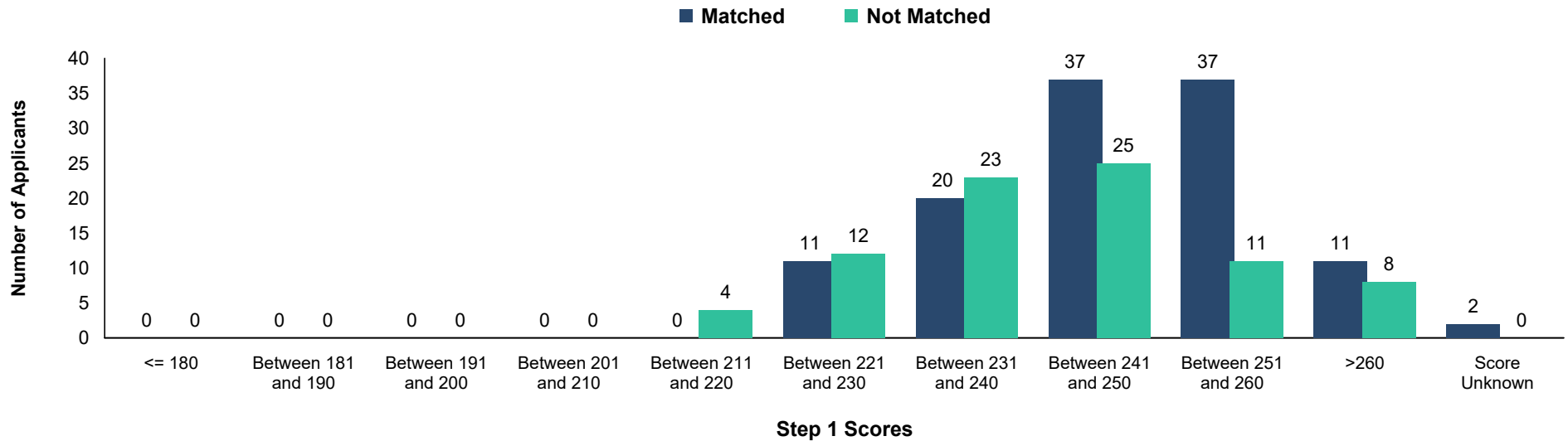
*Interventional Radiology*



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

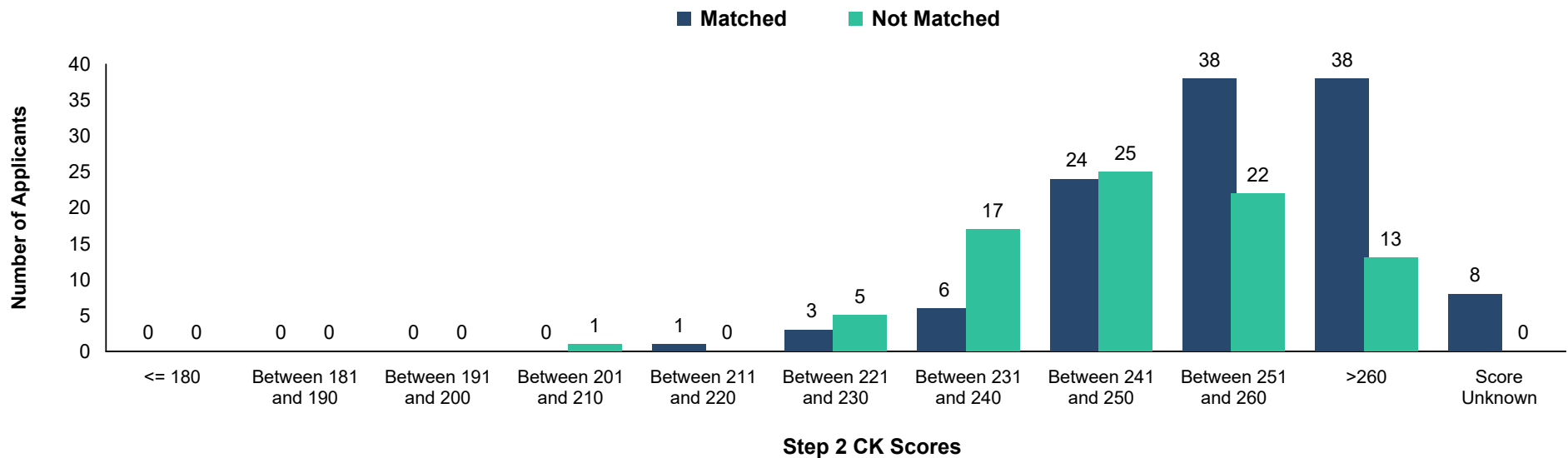
**Chart  
IR-3**

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



**Chart  
IR-4**

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



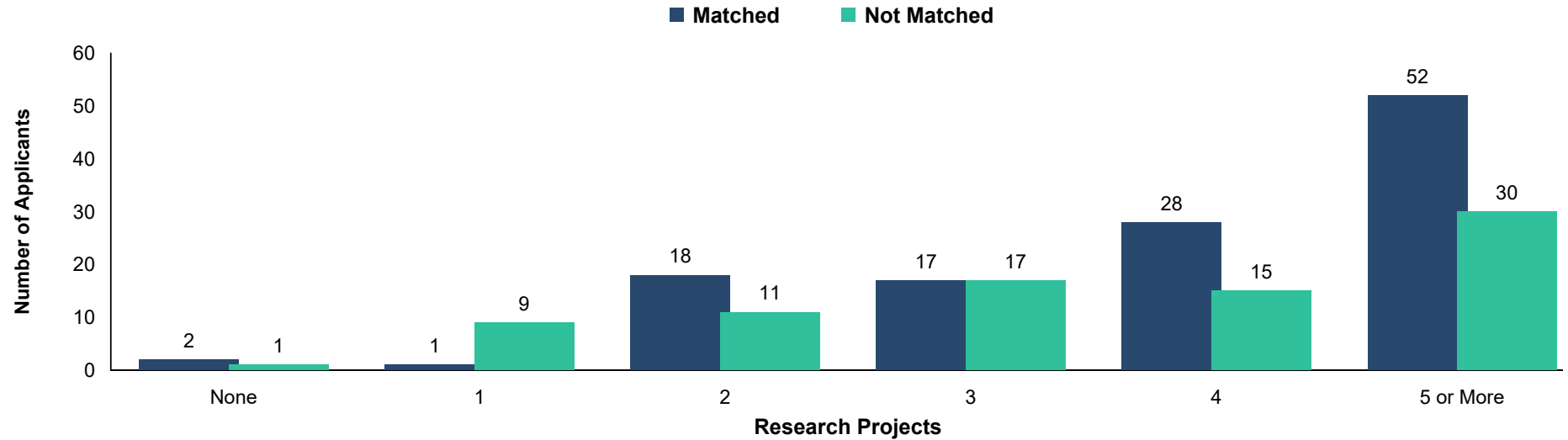
## Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *Interventional Radiology*



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

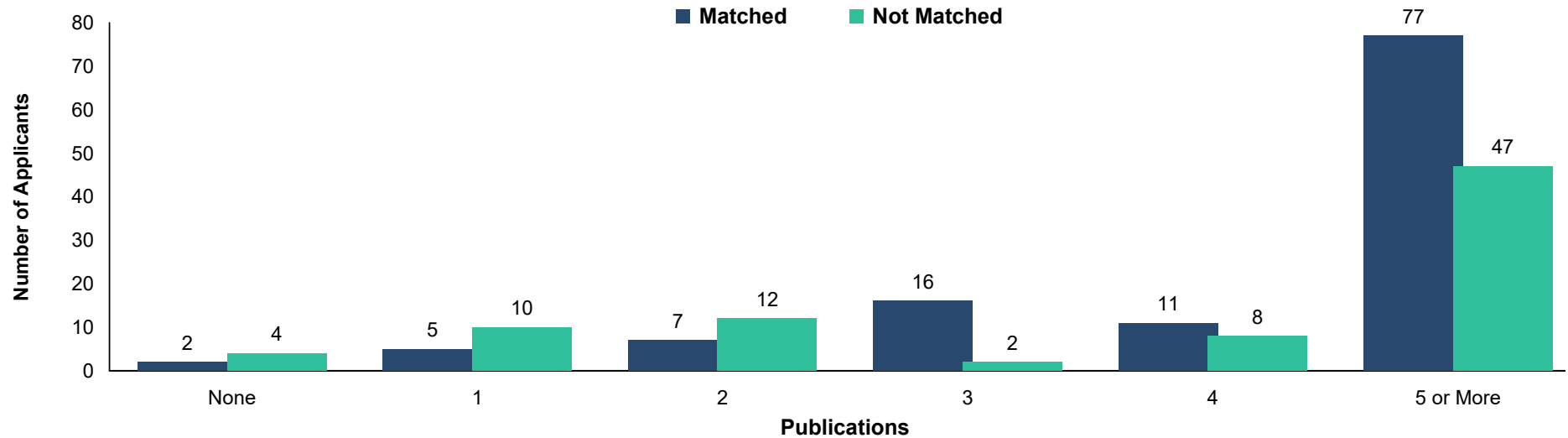
**Chart  
IR-5**

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



**Chart  
IR-6**

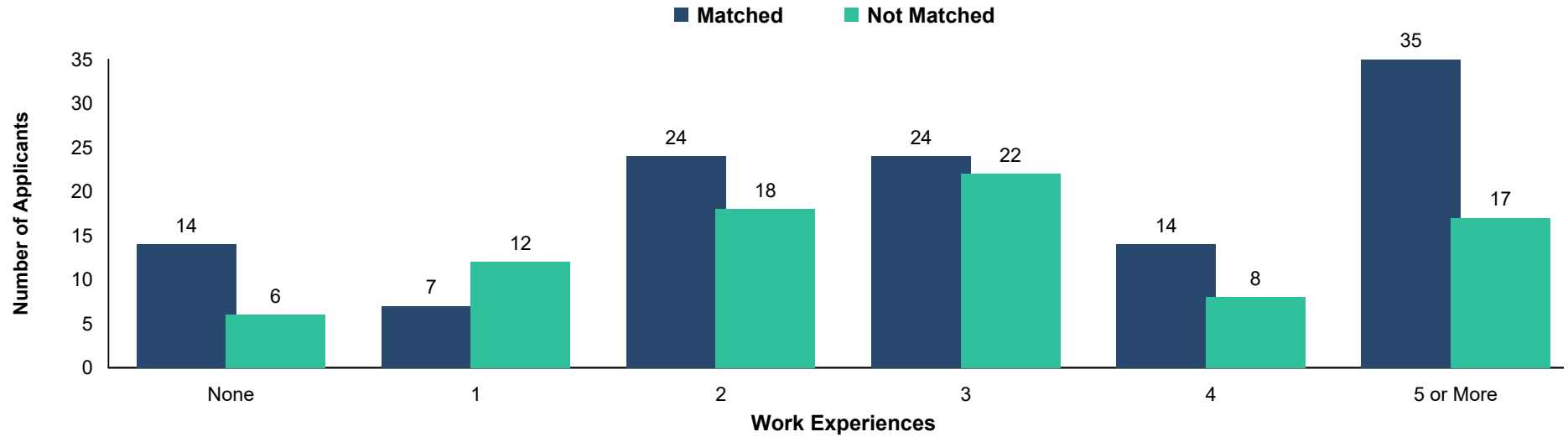
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Interventional Radiology***



Source: NRMP Data Warehouse

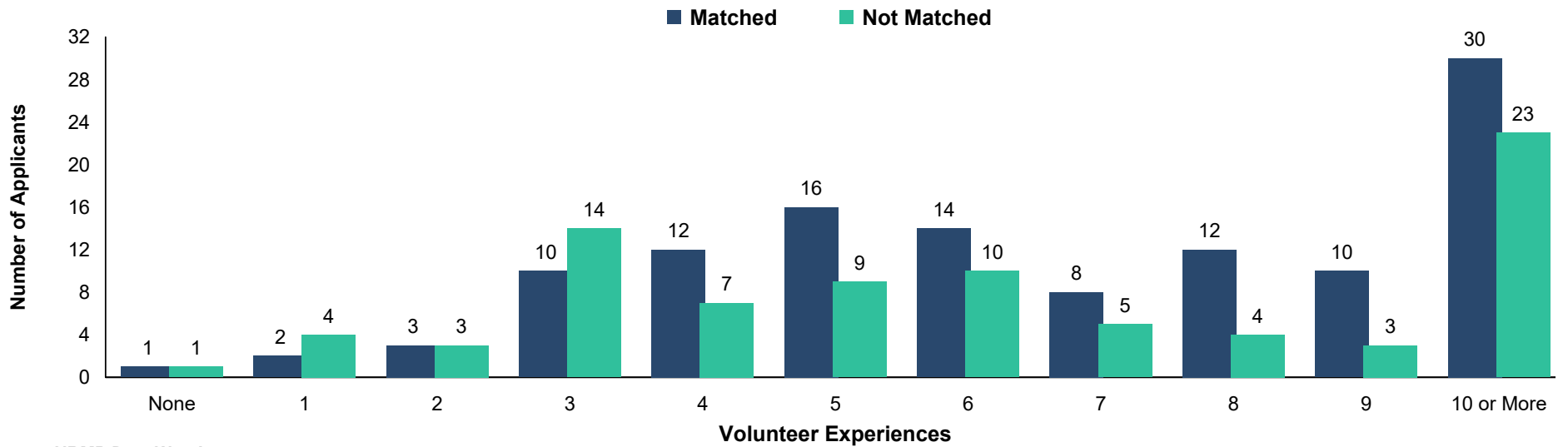
**Chart  
IR-7**

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



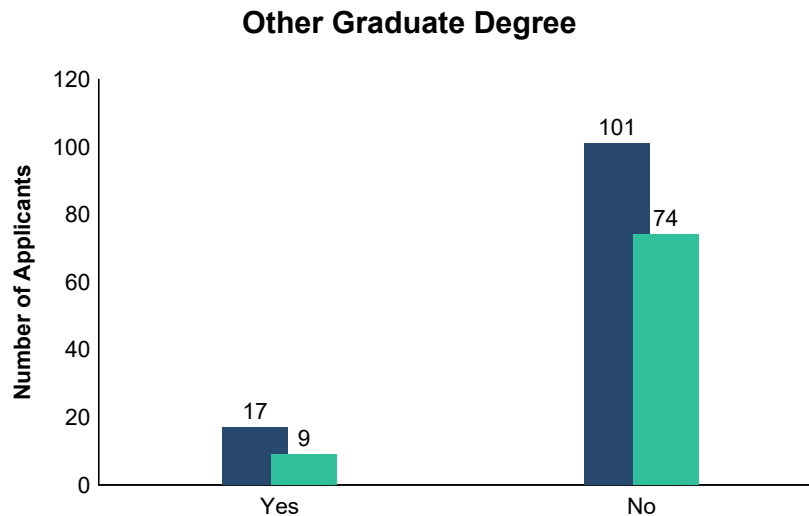
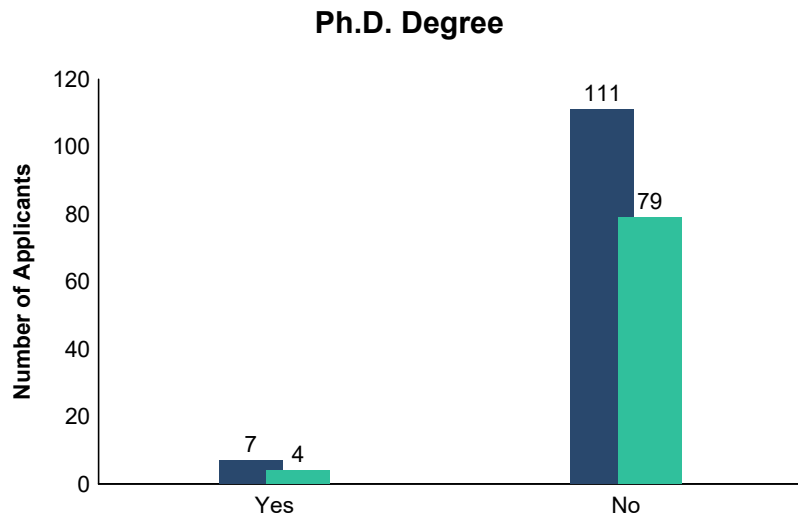
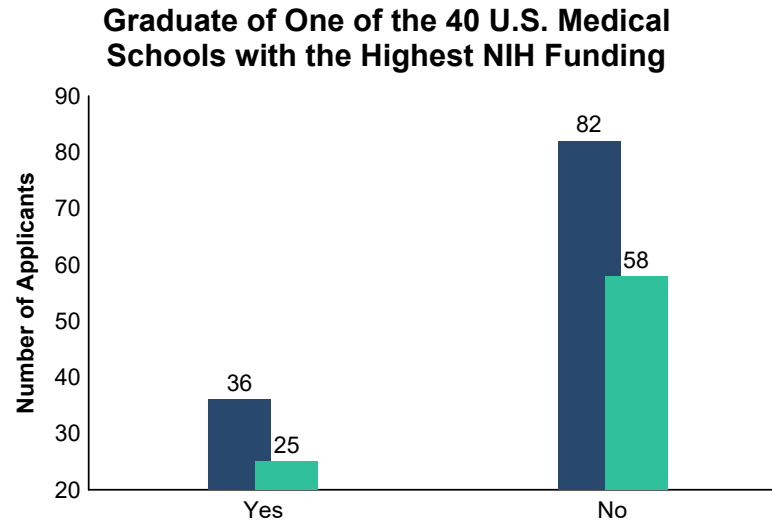
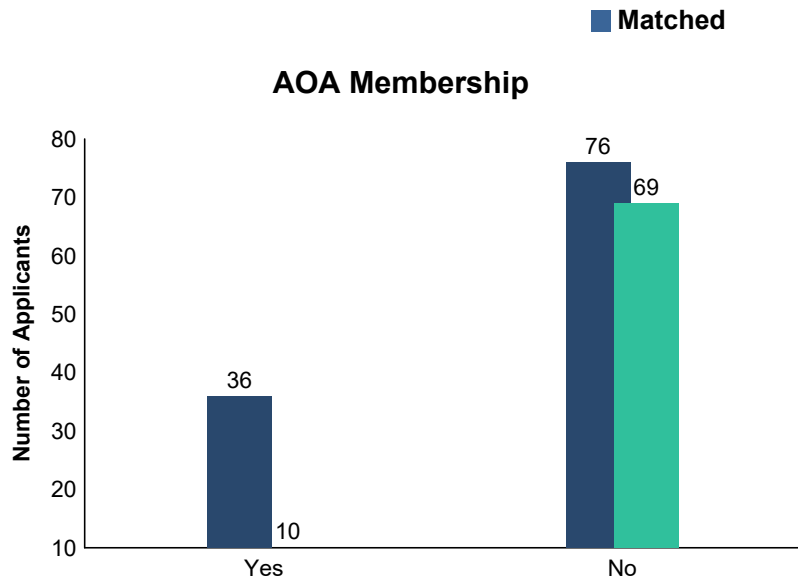
**Chart  
IR-8**

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



Source: NRMP Data Warehouse

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



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



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**NS** Neurological Surgery

## Summary Statistics on U.S. Allopathic Seniors *Neurological Surgery*

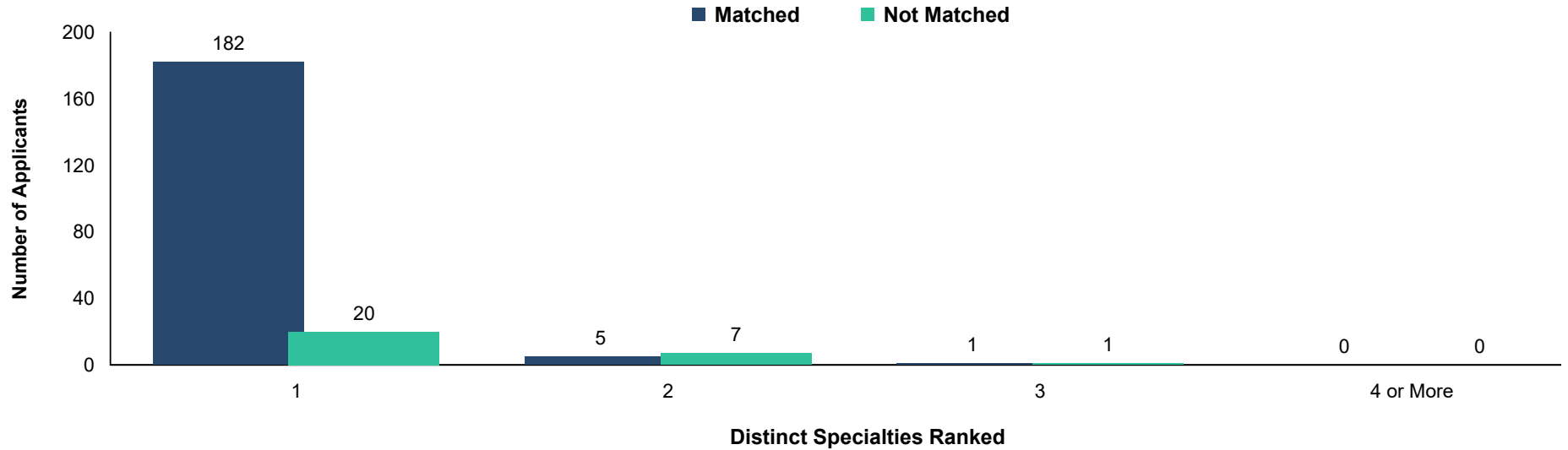
Measure	Matched (n=188)	Unmatched (n=28)
1. Mean number of contiguous ranks	16.4	8.5
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	245	234
4. Mean USMLE Step 2 score	249	238
5. Mean number of research experiences	5.2	4.4
6. Mean number of abstracts, presentations, and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

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

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

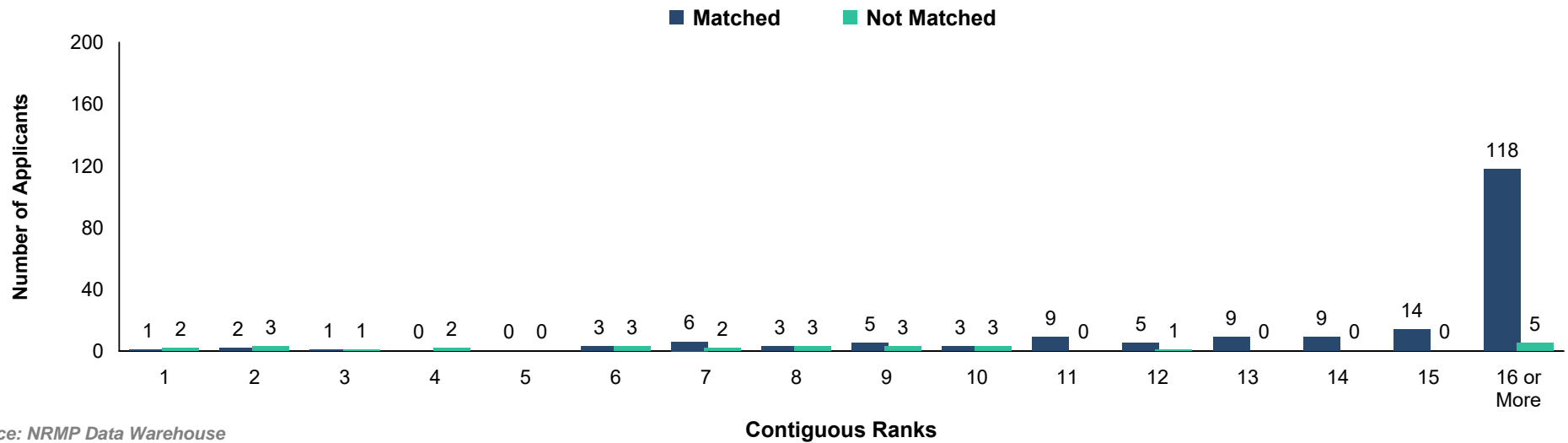
**Chart  
NS-1**

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



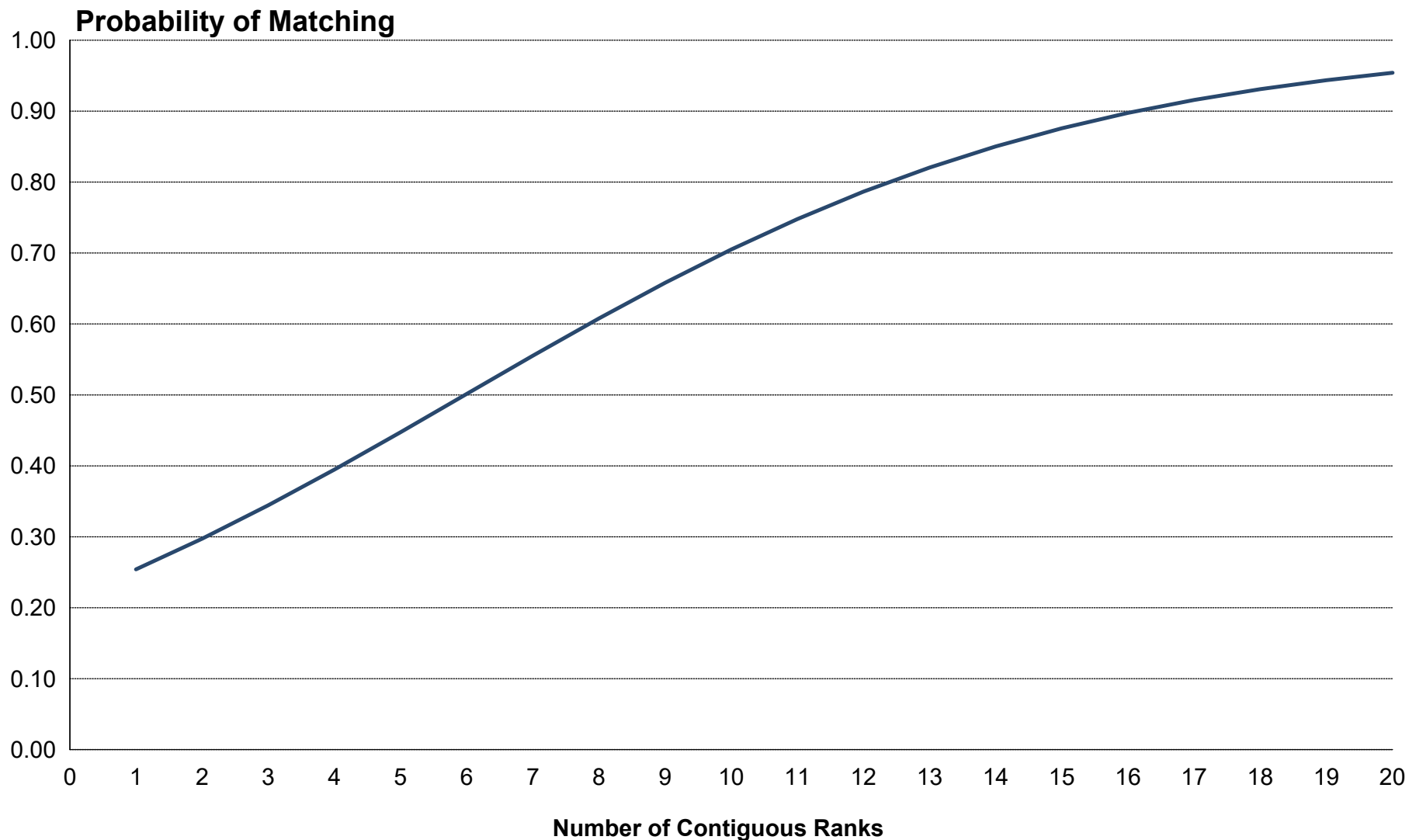
**Chart  
NS-2**

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



Source: NRMP Data Warehouse

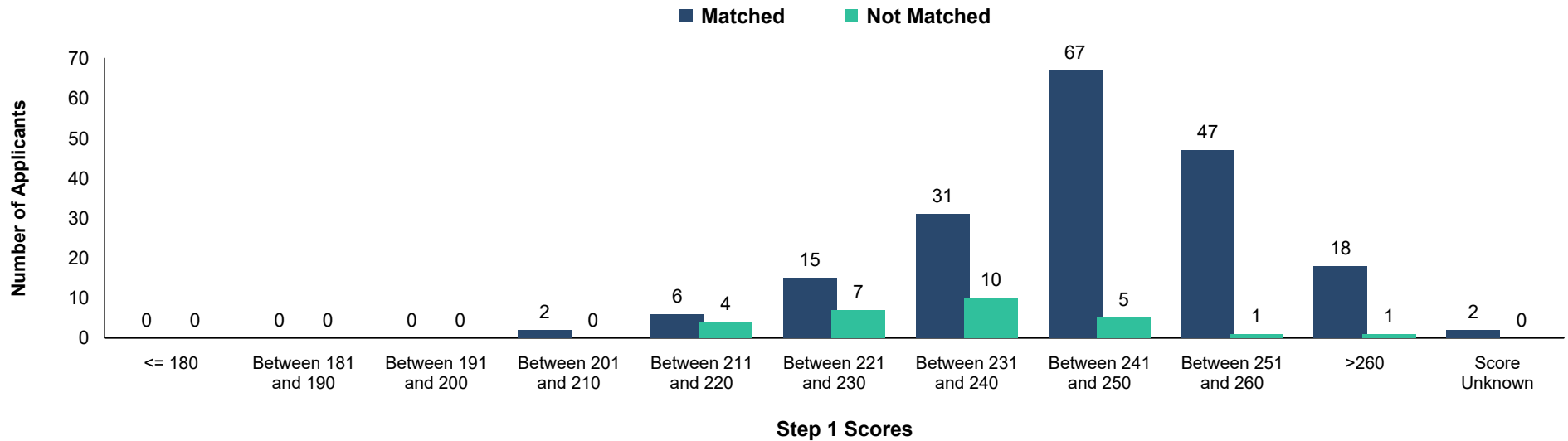
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks**  
*Neurological Surgery*



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

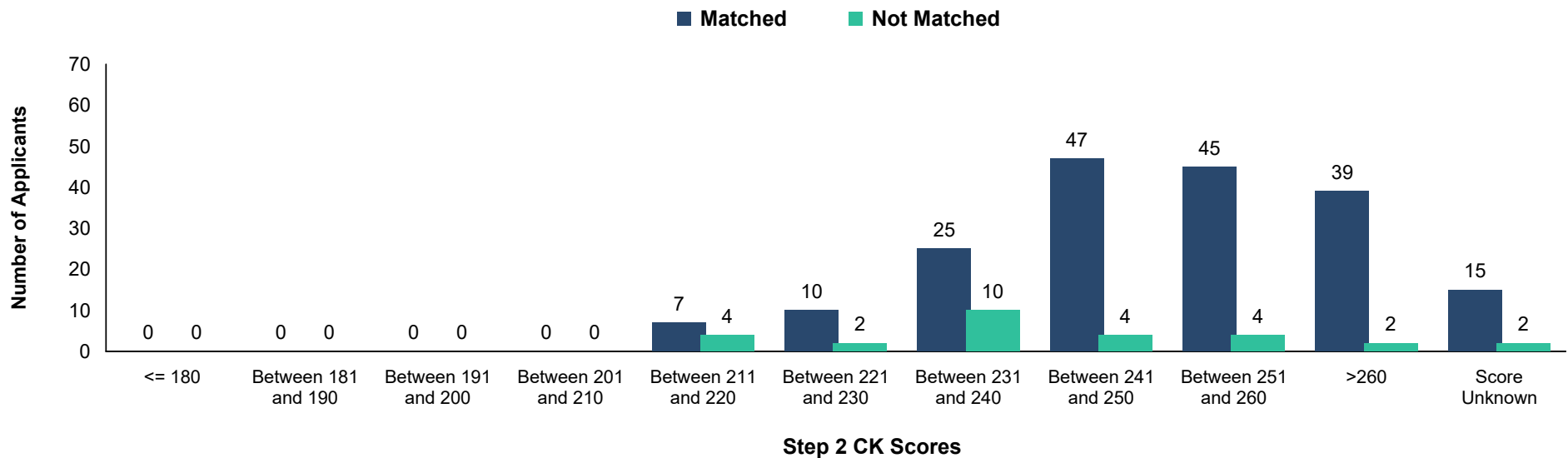
**Chart  
NS-3**

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

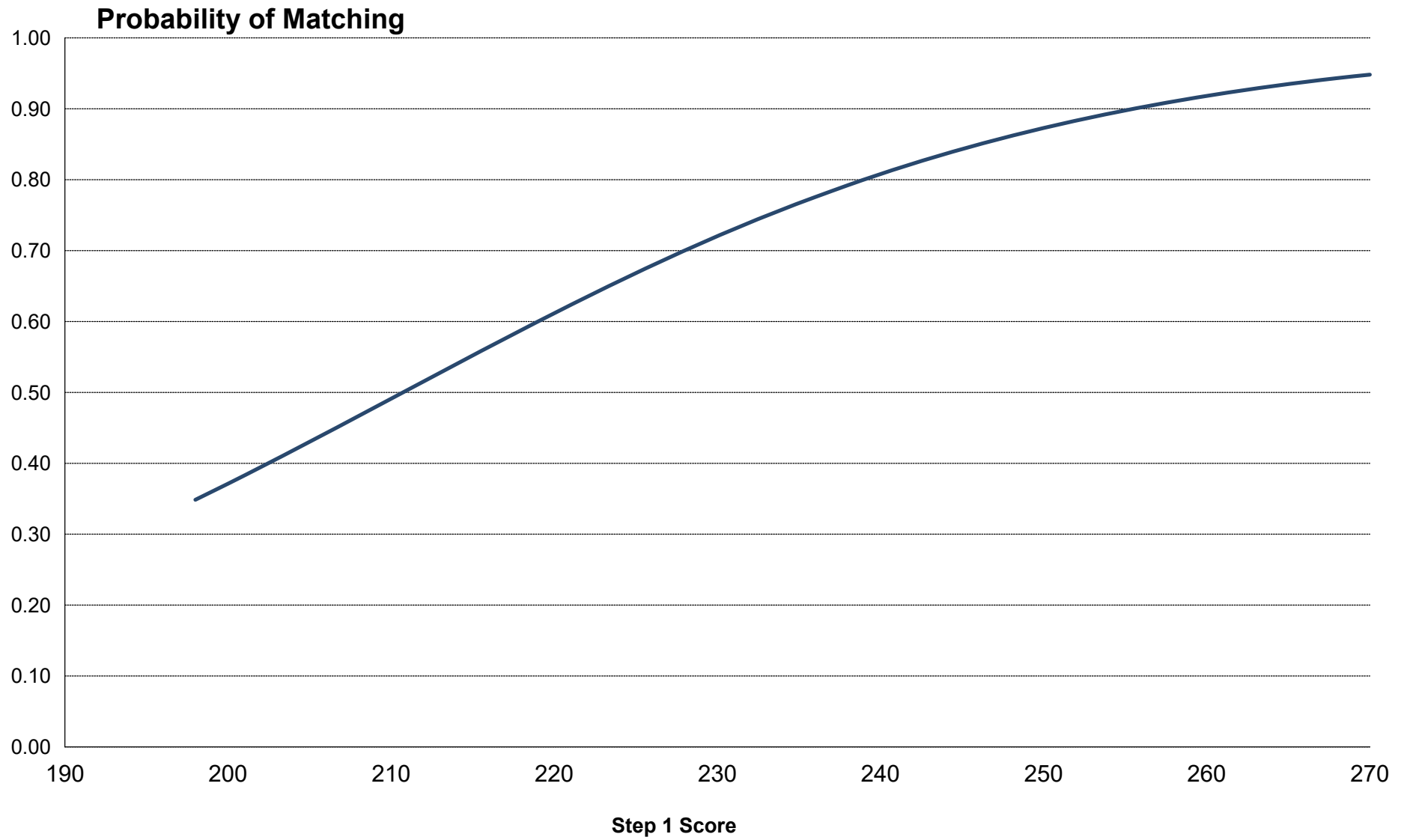


**Chart  
NS-4**

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



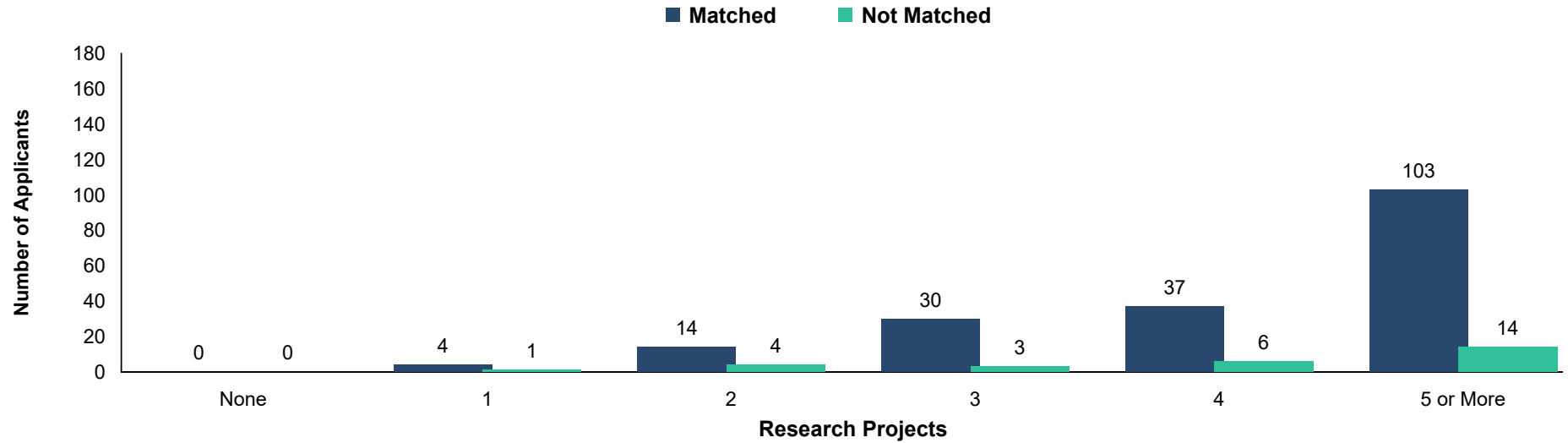
## Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *Neurological Surgery*



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

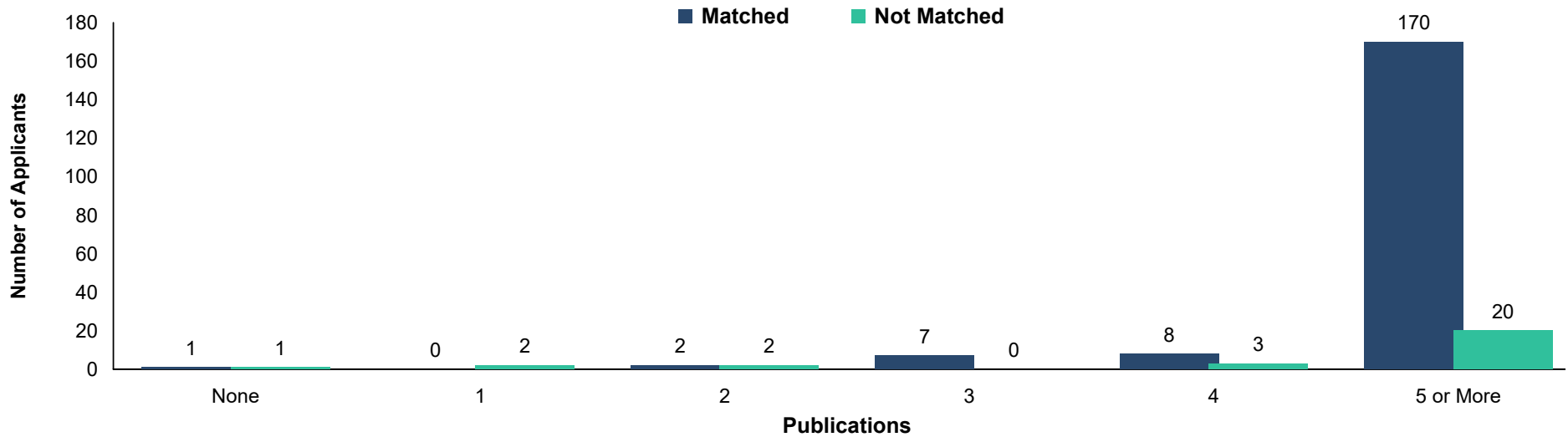
**Chart  
NS-5**

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



**Chart  
NS-6**

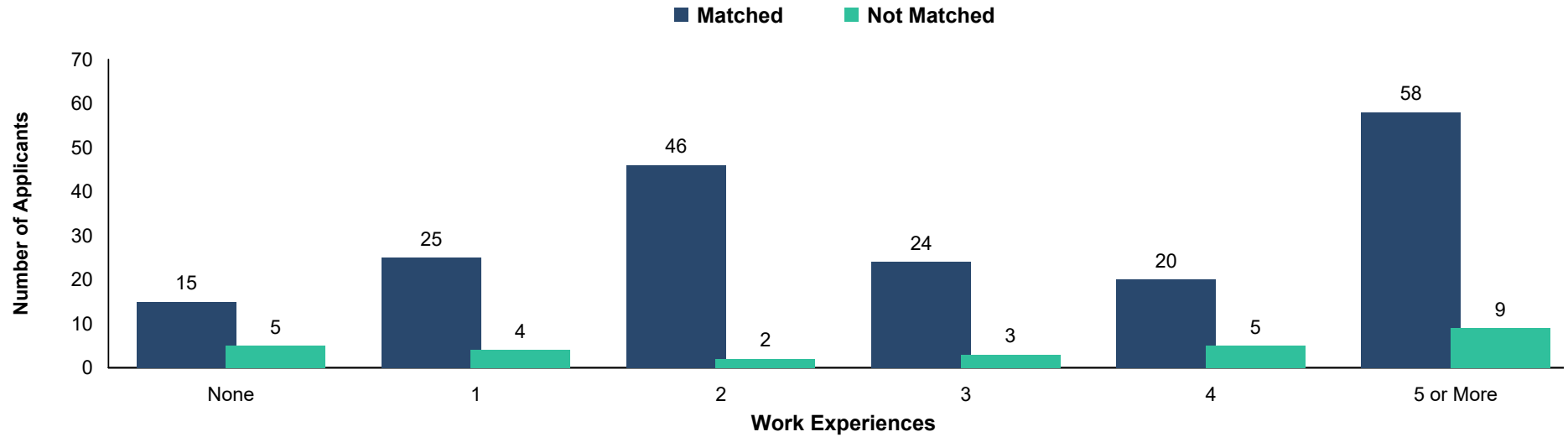
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Neurological Surgery***



Source: NRMP Data Warehouse

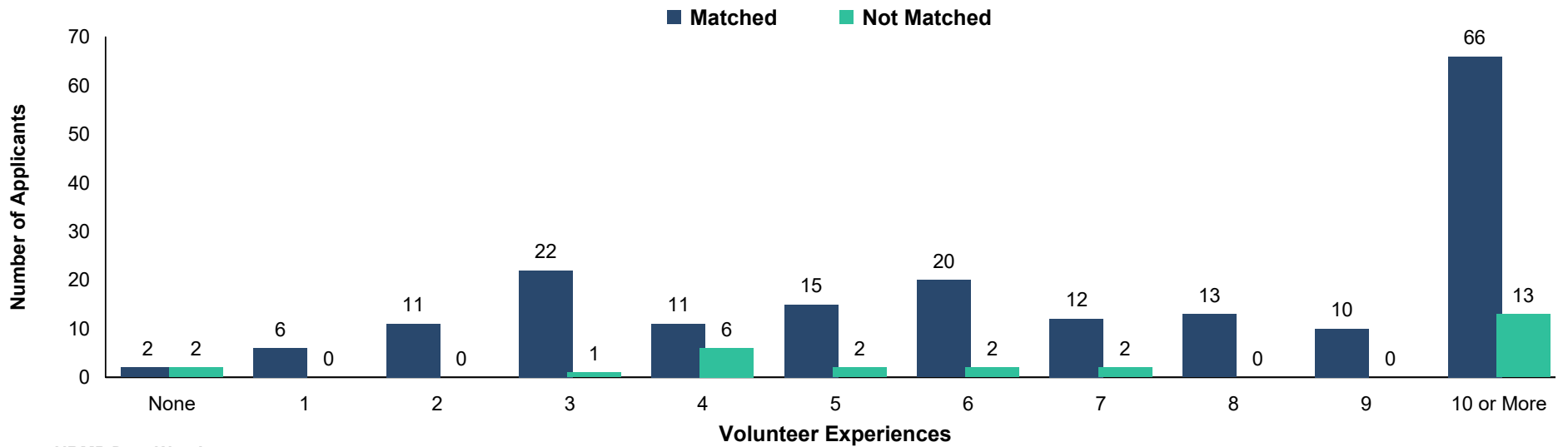
**Chart  
NS-7**

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



**Chart  
NS-8**

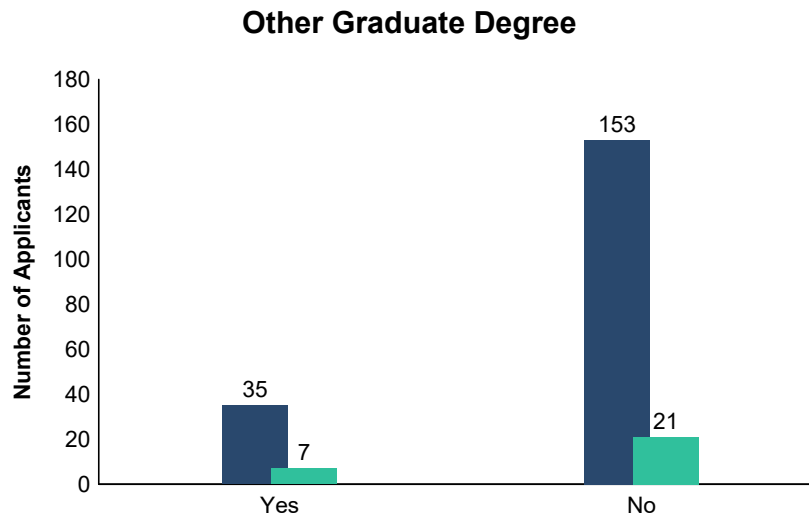
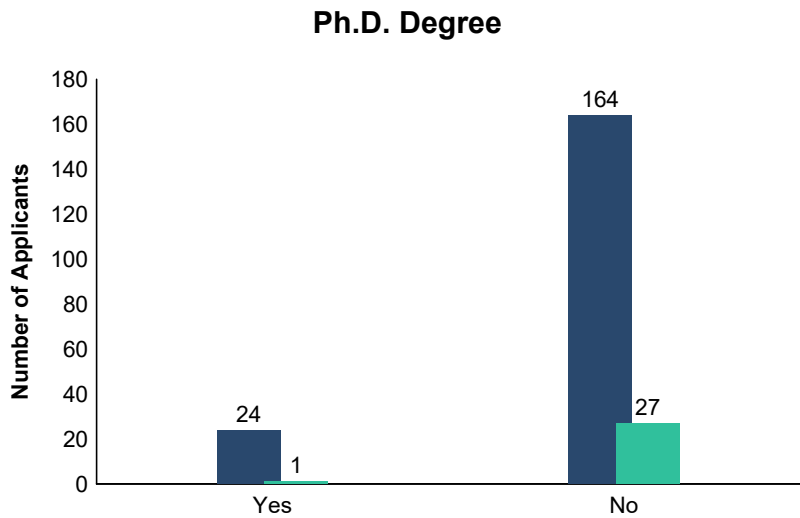
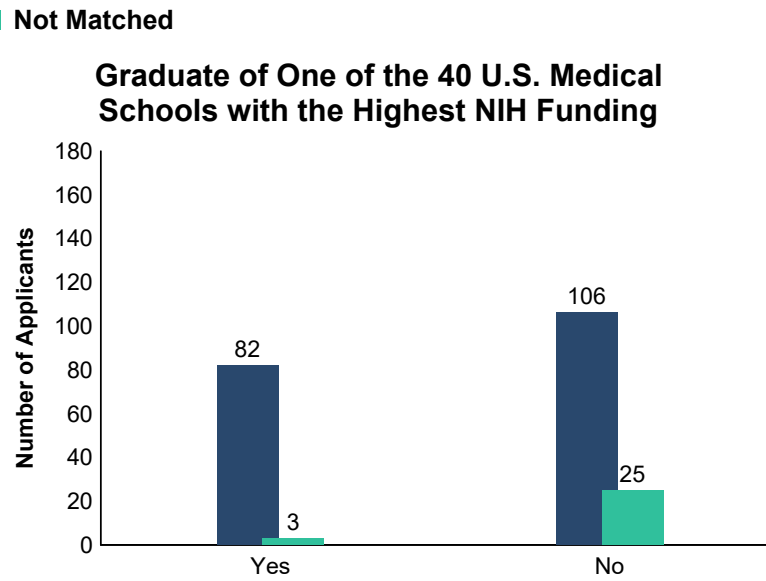
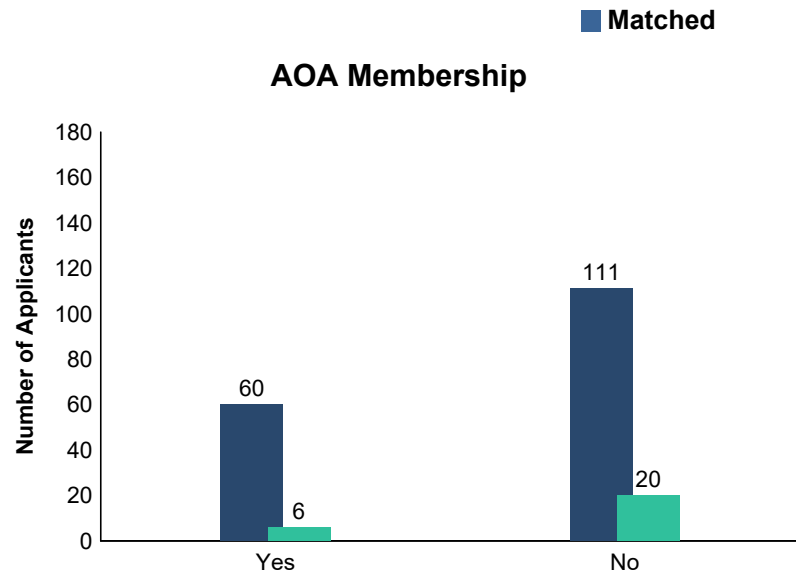
**Number of Volunteer Experiences of U.S. Allopathic Seniors  
*Neurological Surgery***



Source: NRMP Data Warehouse



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



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

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**N** **Neurology**

**Table  
N-1****Summary Statistics on U.S. Allopathic Seniors  
Neurology**

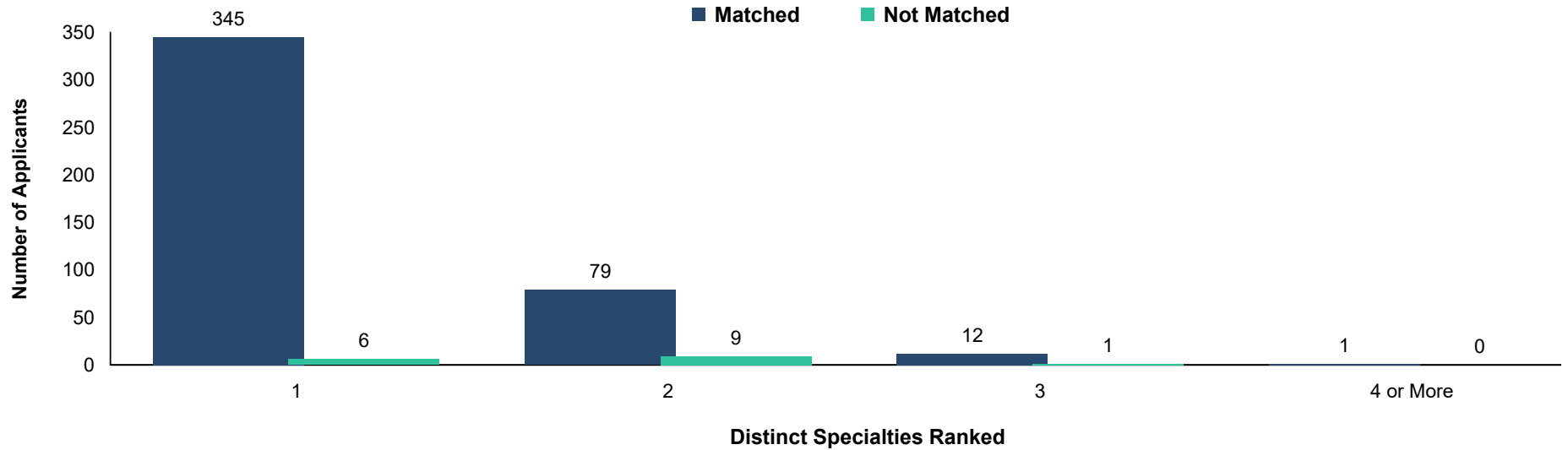
Measure	Matched (n=437)	Unmatched (n=16)
1. Mean number of contiguous ranks	11.7	4.0
2. Mean number of distinct specialties ranked	1.2	1.7
3. Mean USMLE Step 1 score	231	213
4. Mean USMLE Step 2 score	242	229
5. Mean number of research experiences	3.6	3.4
6. Mean number of abstracts, presentations, and publications	6.3	7.3
7. Mean number of work experiences	2.9	3.1
8. Mean number of volunteer experiences	6.5	6.8
9. Percentage who are AOA members	11.9	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	33.9	25.0
11. Percentage who have Ph.D. degree	12.1	13.3
12. Percentage who have another graduate degree	16.7	37.5

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

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

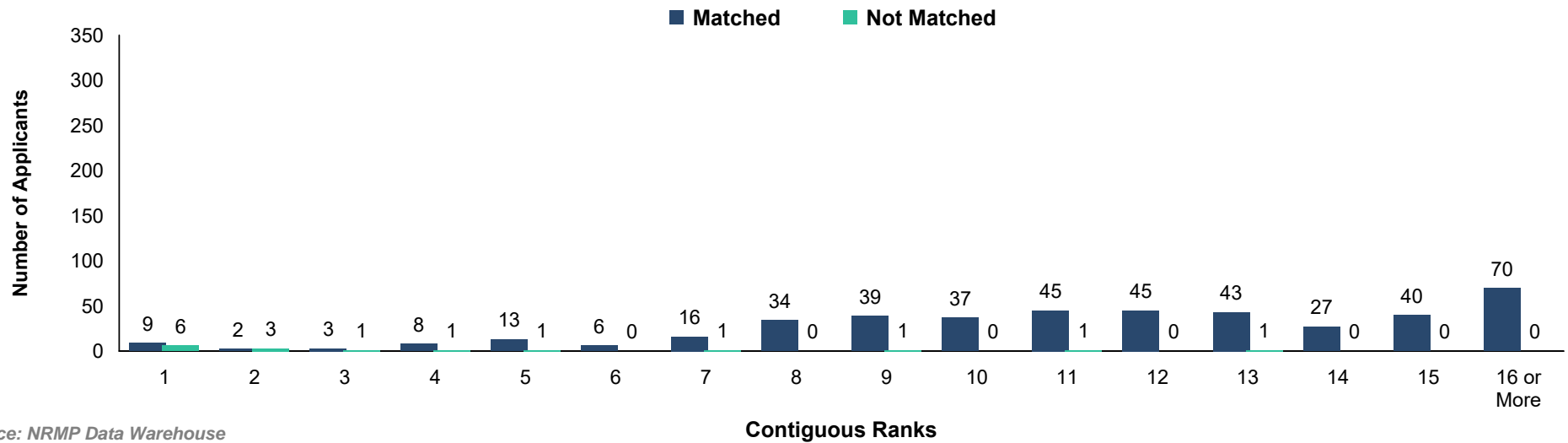
**Chart  
N-1**

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



**Chart  
N-2**

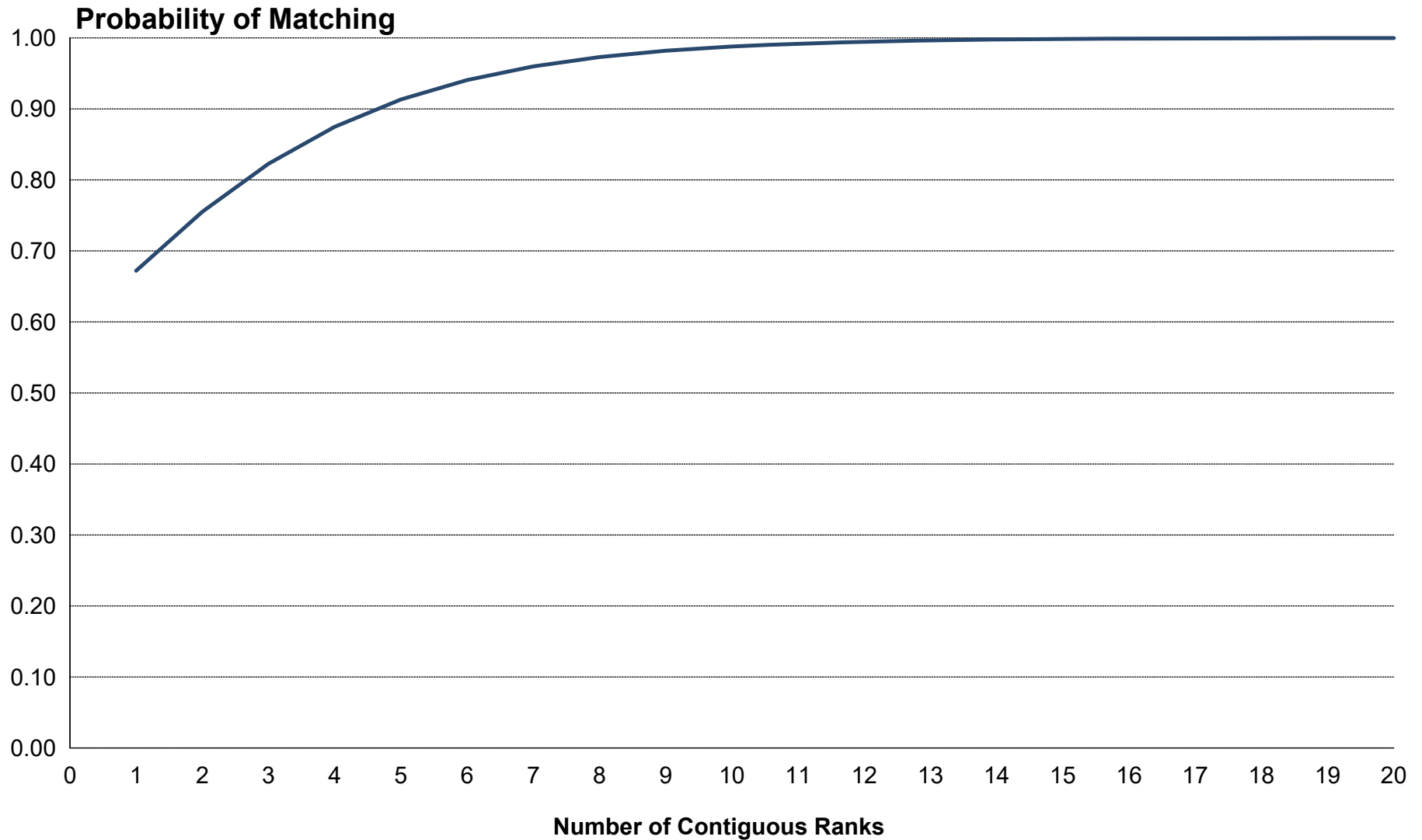
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Neurology**



Source: NRMP Data Warehouse

**Graph  
N-1**

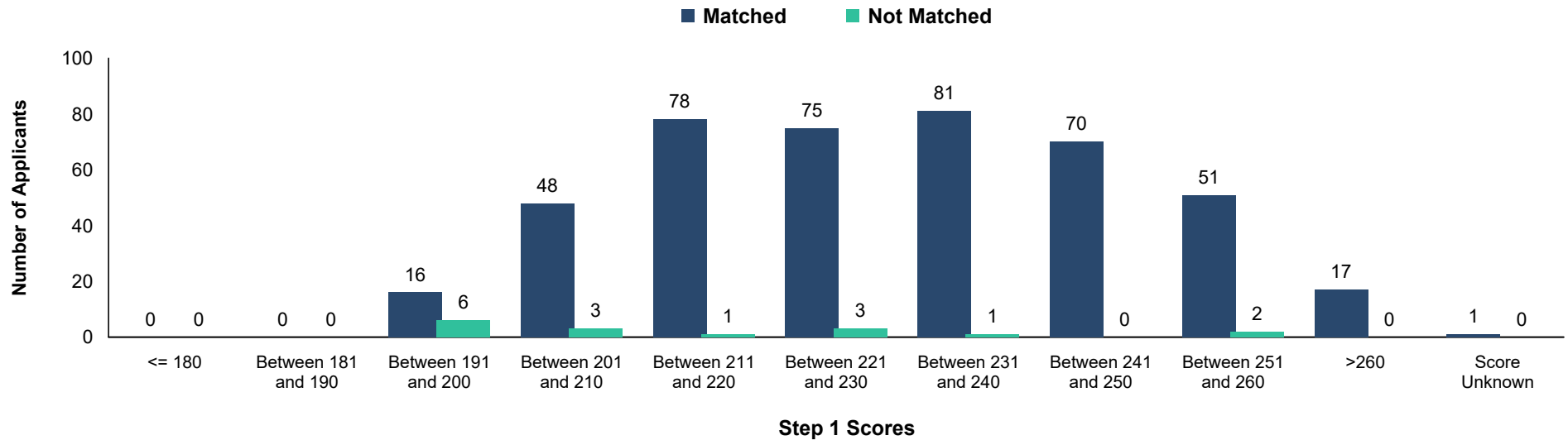
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks**  
*Neurology*



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

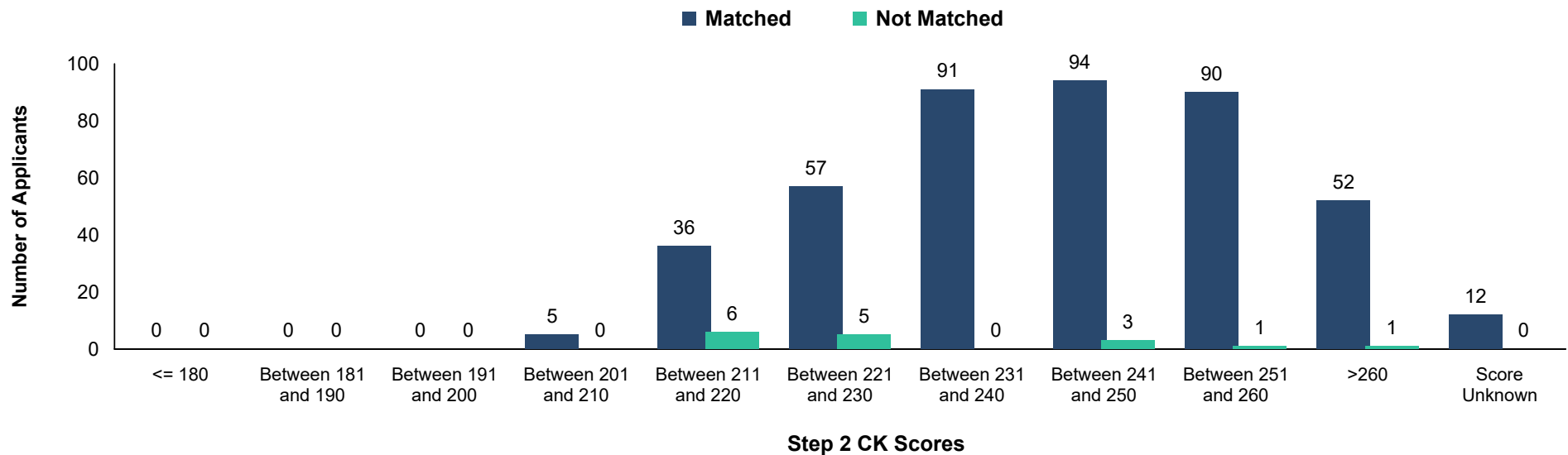
**Chart  
N-3**

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



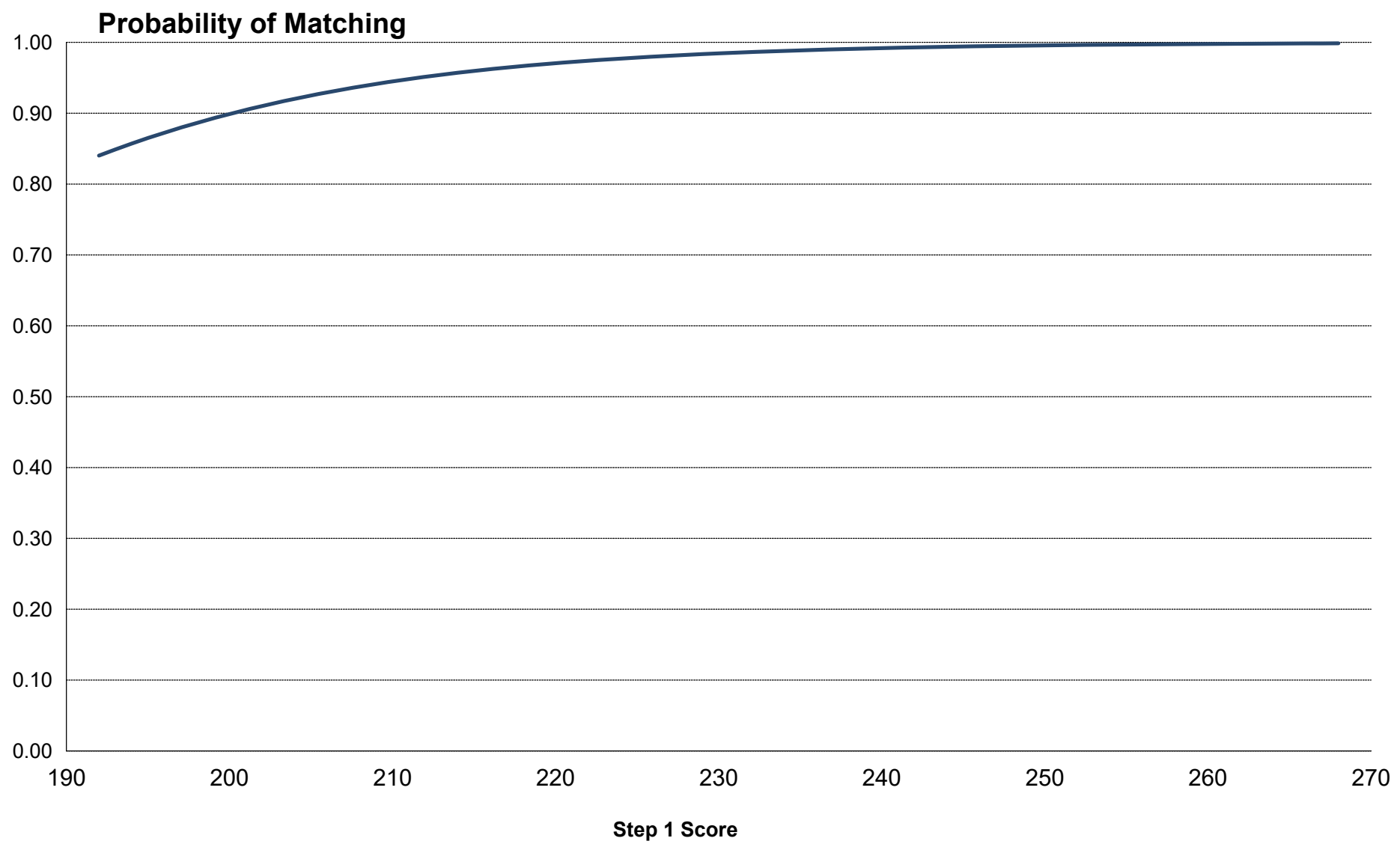
**Chart  
N-4**

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



**Graph  
N-2**

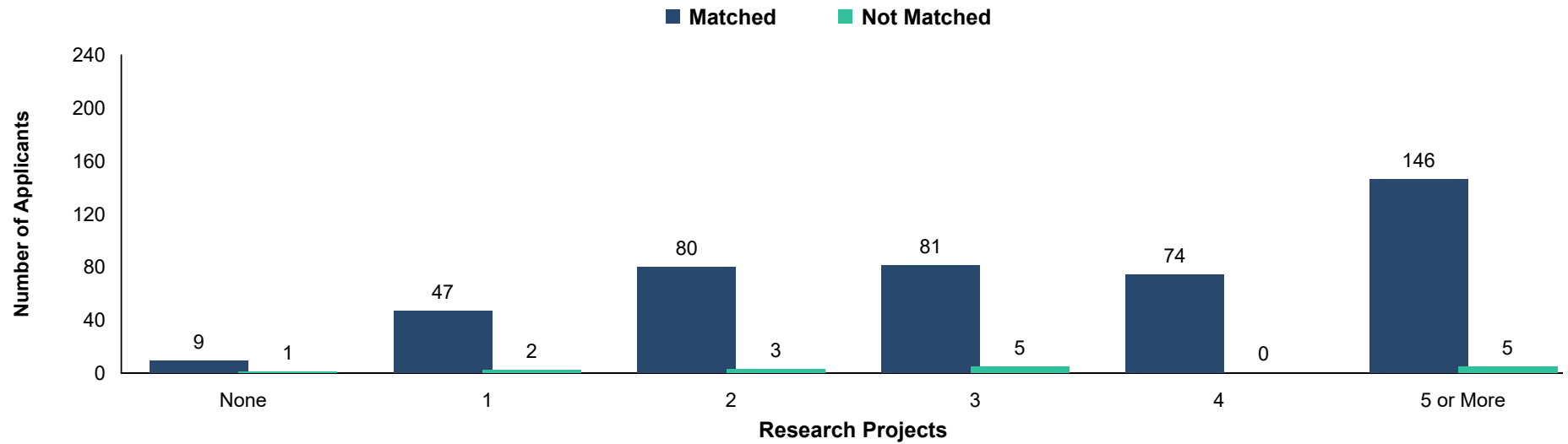
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score  
Neurology**



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

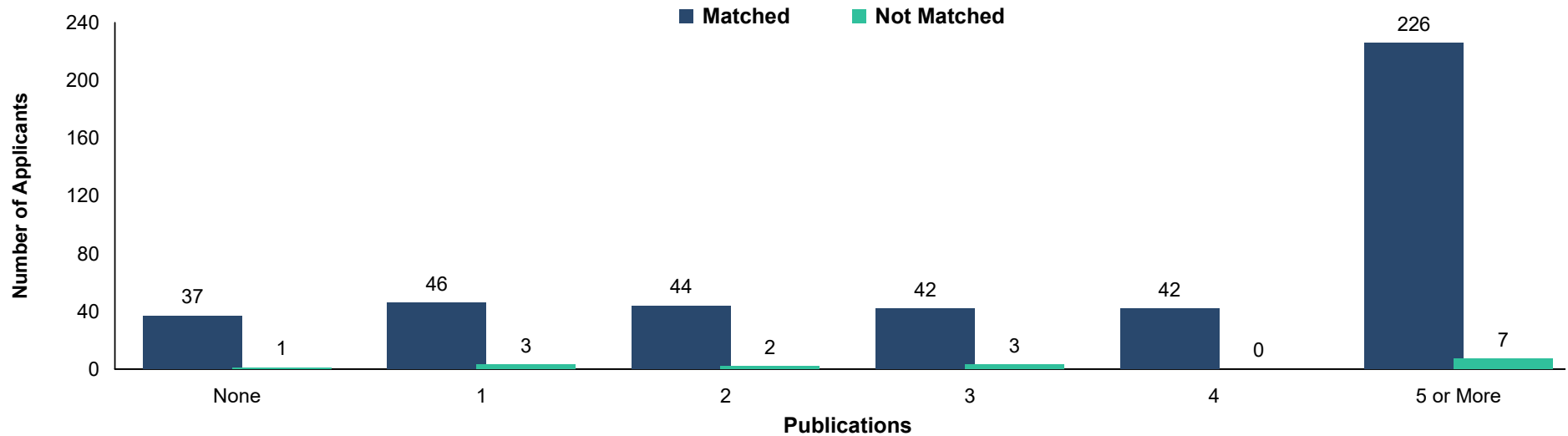
**Chart  
N-5**

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



**Chart  
N-6**

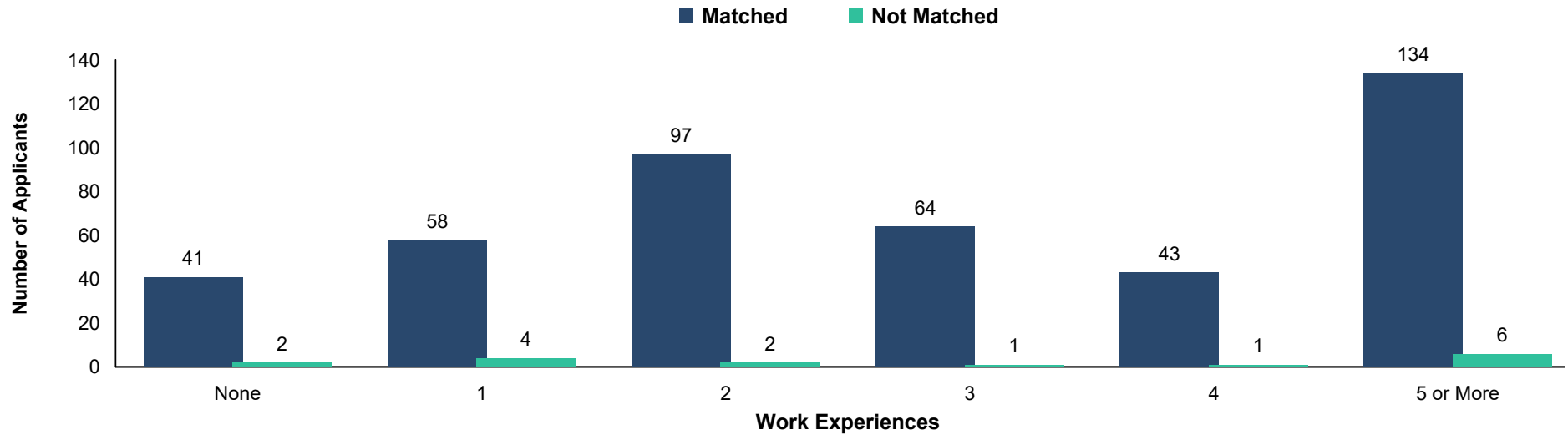
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Neurology**



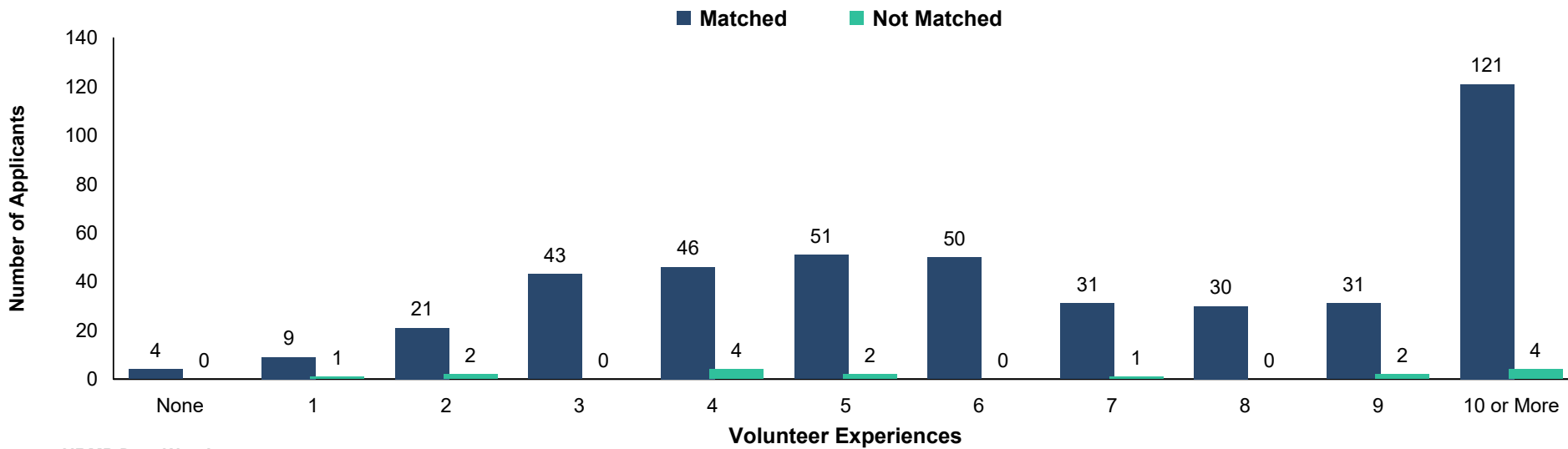
Source: NRMP Data Warehouse



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



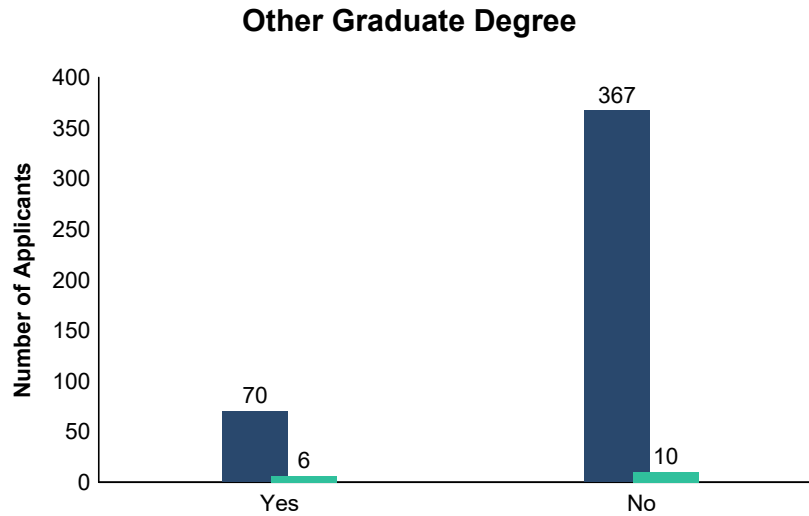
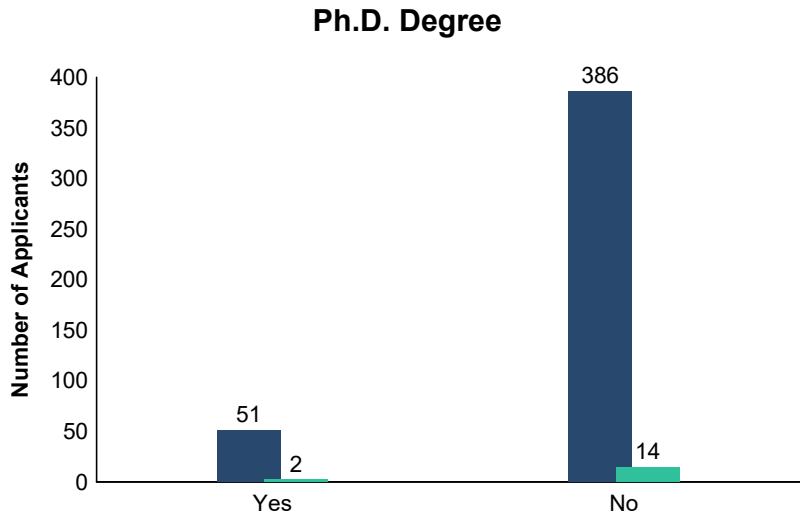
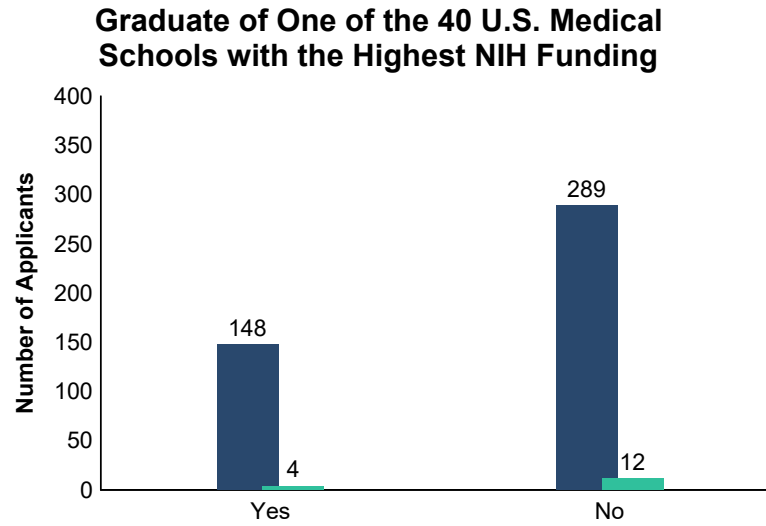
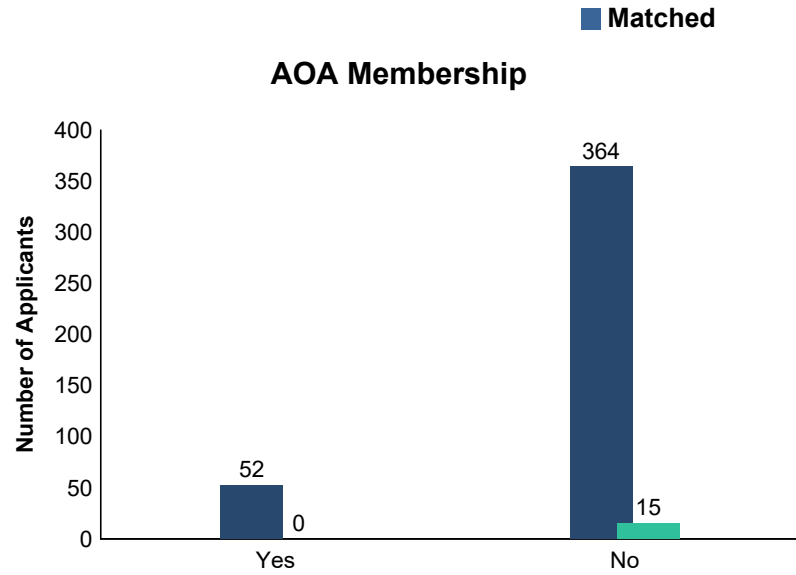
**Chart N-8** Number of Volunteer Experiences of U.S. Allopathic Seniors  
*Neurology*



Source: NRMP Data Warehouse

**Chart  
N-9**

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



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

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**OB** **Obstetrics and Gynecology**

**Table  
OB-1****Summary Statistics on U.S. Allopathic Seniors  
Obstetrics and Gynecology**

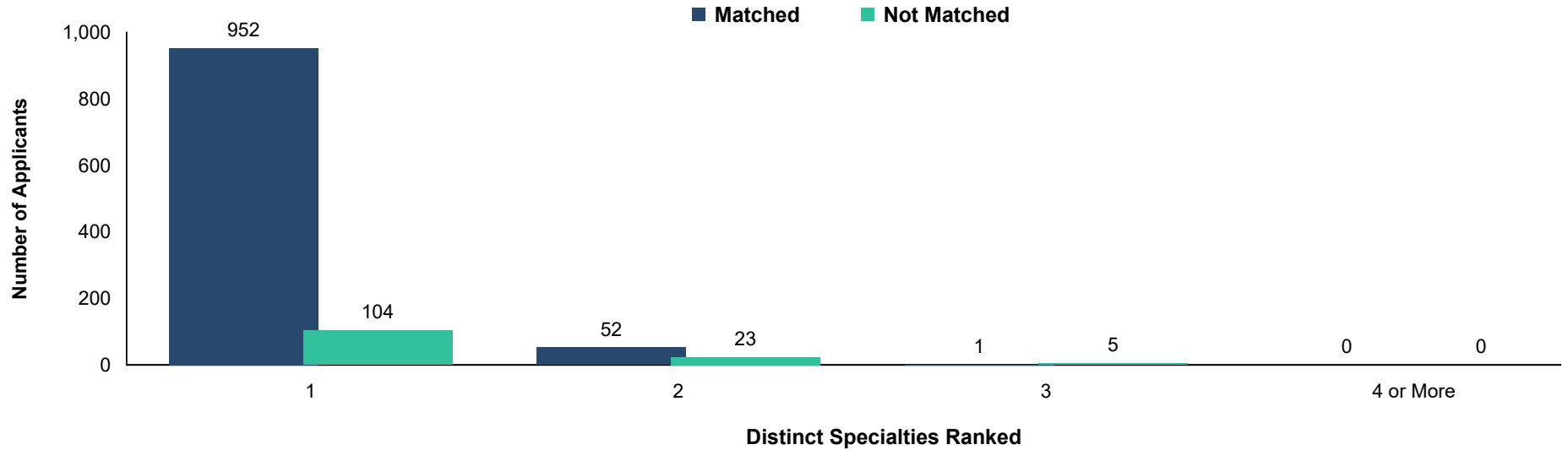
Measure	Matched (n=1,005)	Unmatched (n=132)
1. Mean number of contiguous ranks	12.4	7.4
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	230	218
4. Mean USMLE Step 2 score	247	235
5. Mean number of research experiences	3.4	2.9
6. Mean number of abstracts, presentations,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

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

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

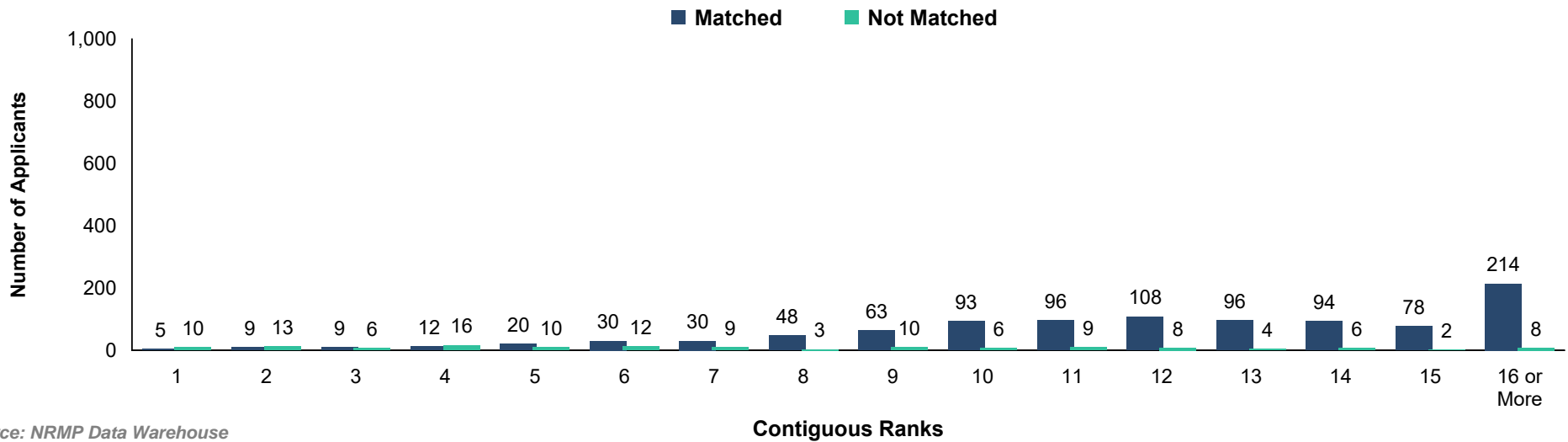
**Chart  
OB-1**

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



**Chart  
OB-2**

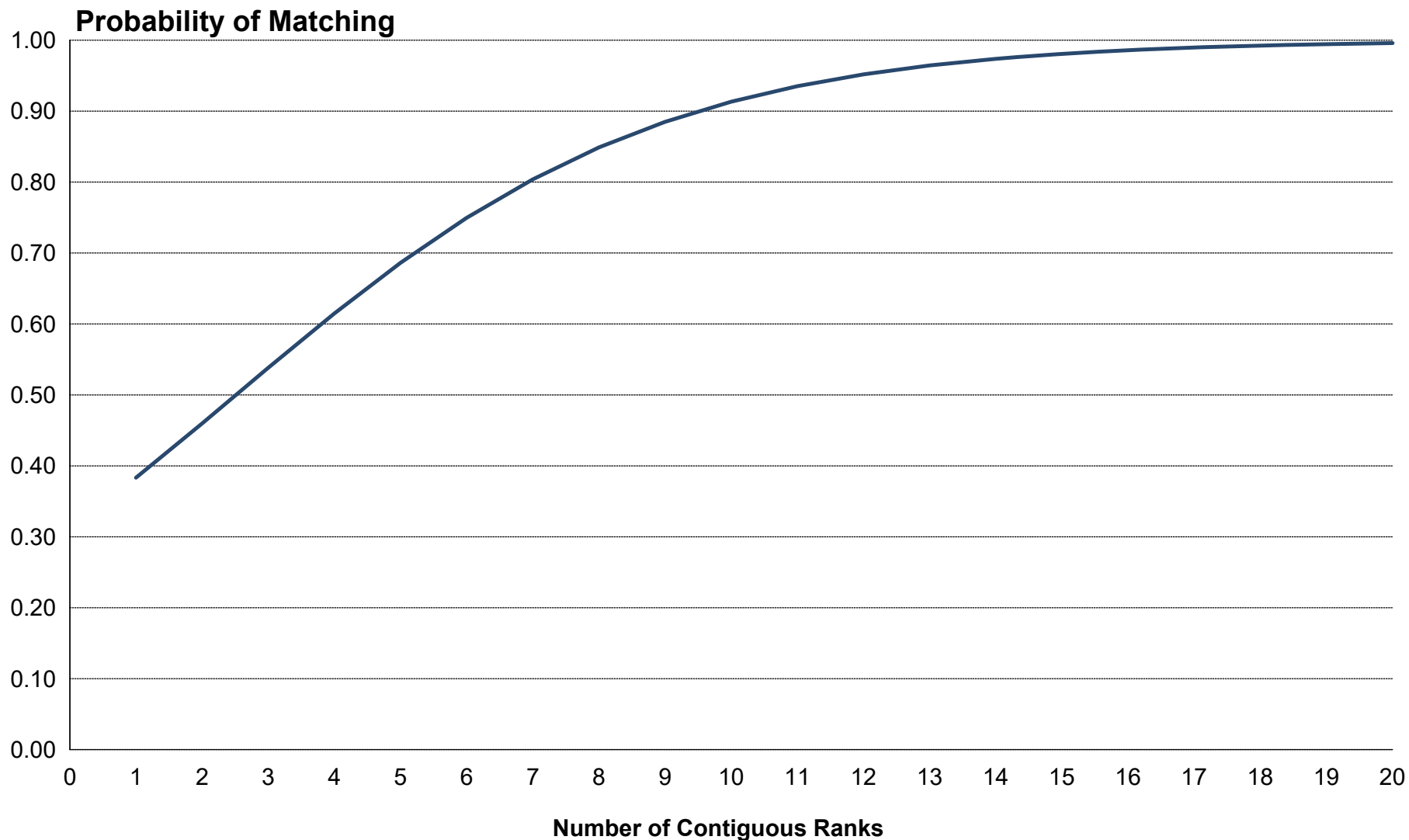
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Obstetrics and Gynecology***



Source: NRMP Data Warehouse

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

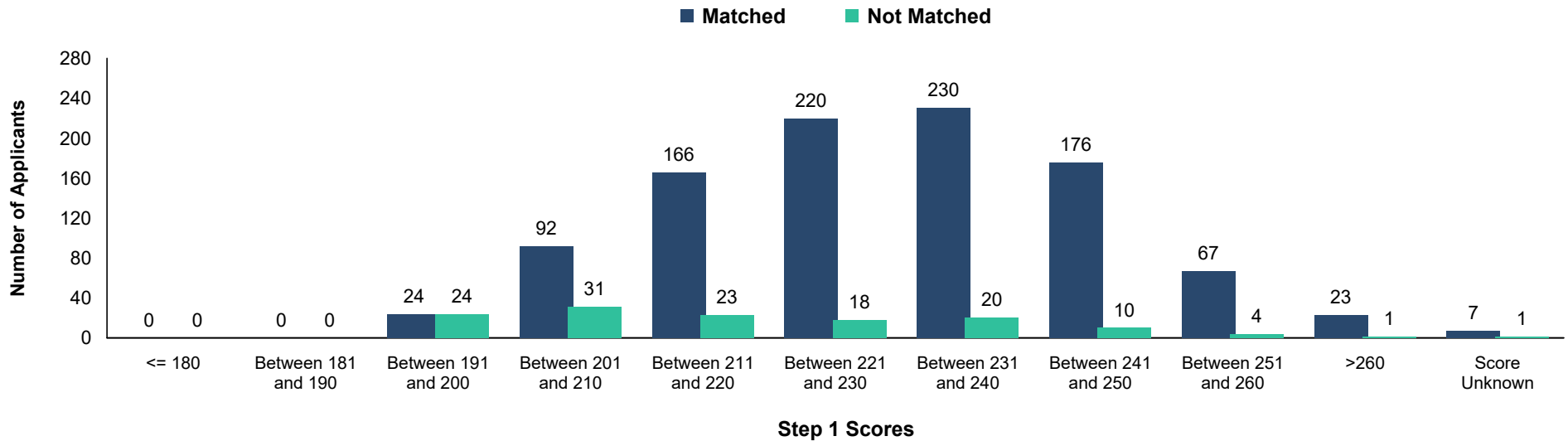
*Obstetrics and Gynecology*



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

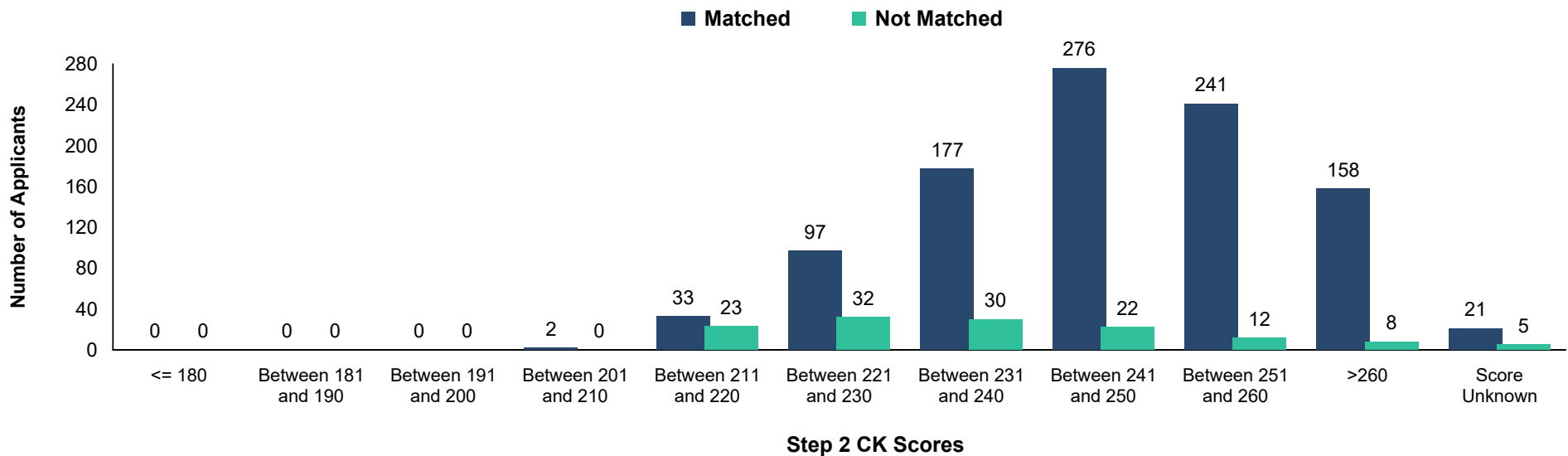
**Chart  
OB-3**

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

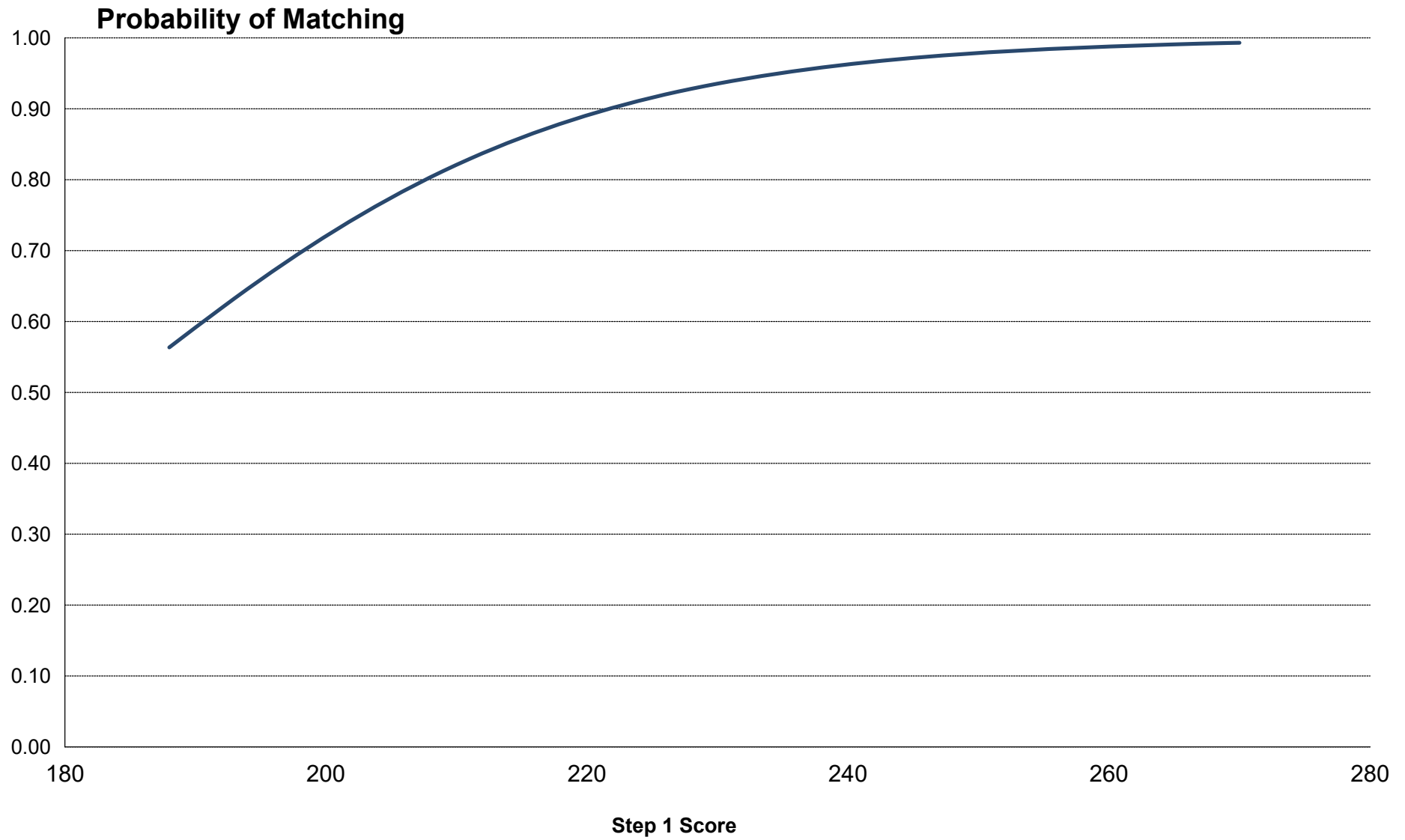


**Chart  
OB-4**

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



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

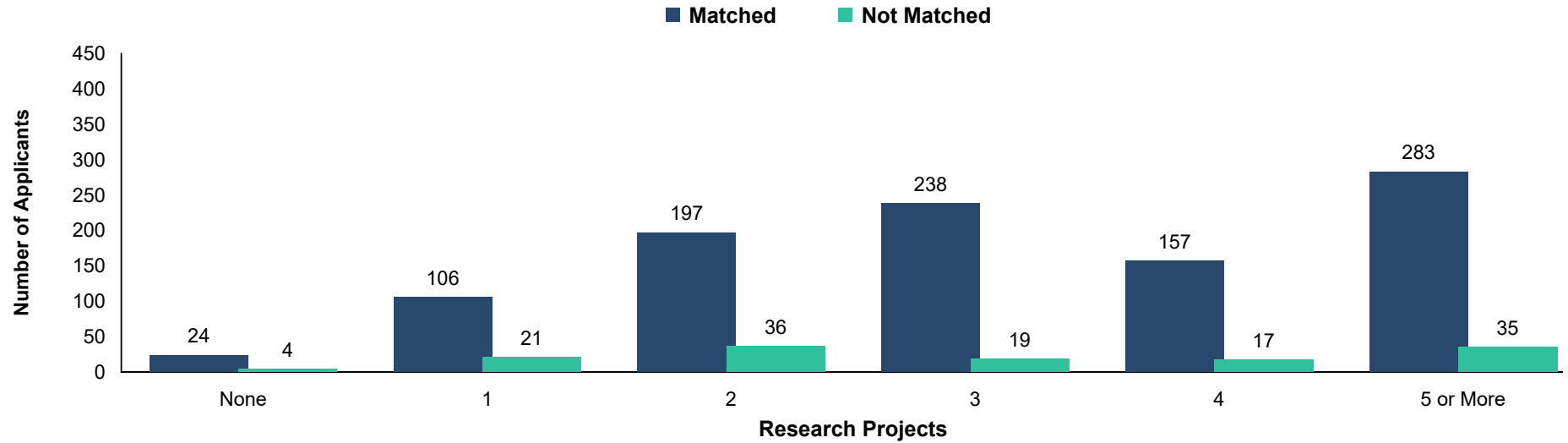


Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.



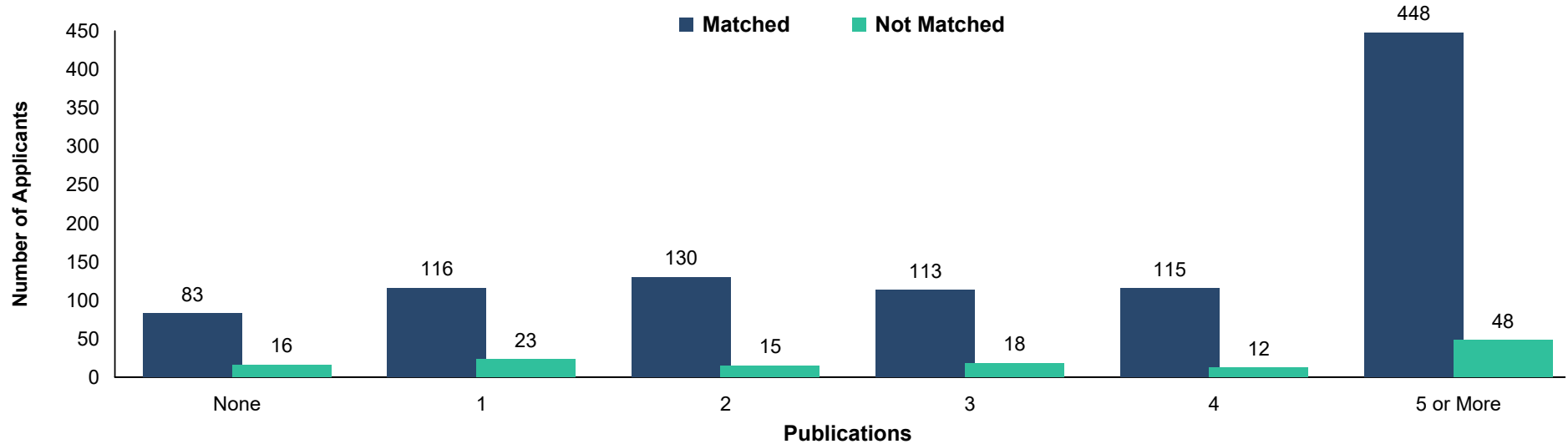
**Chart  
OB-5**

### Number of Research Projects of U.S. Allopathic Seniors *Obstetrics and Gynecology*



**Chart  
OB-6**

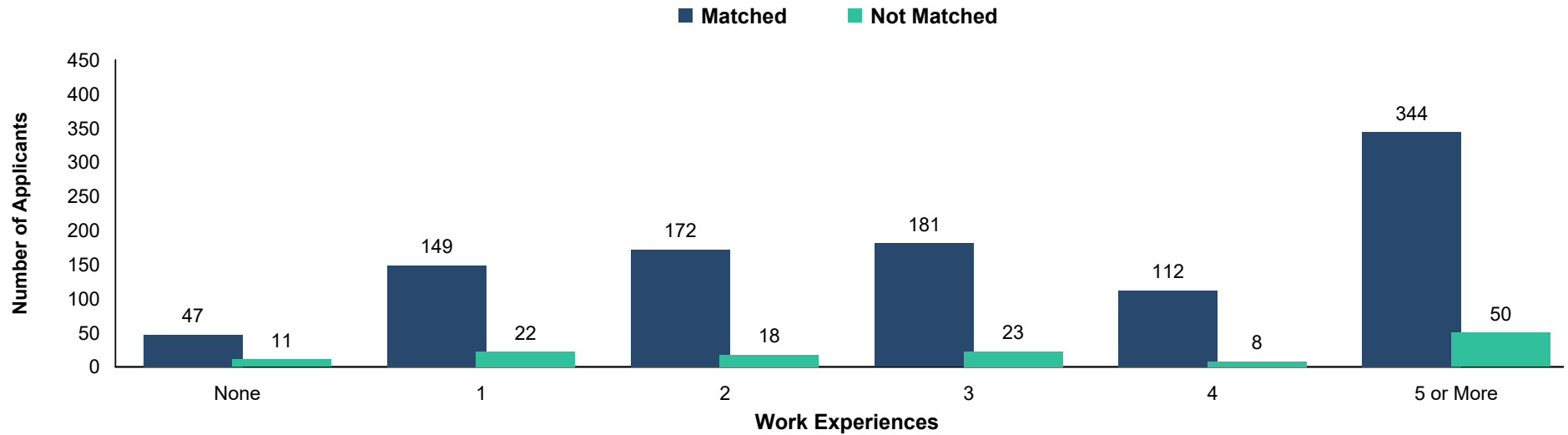
### Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors *Obstetrics and Gynecology*



Source: NRMP Data Warehouse

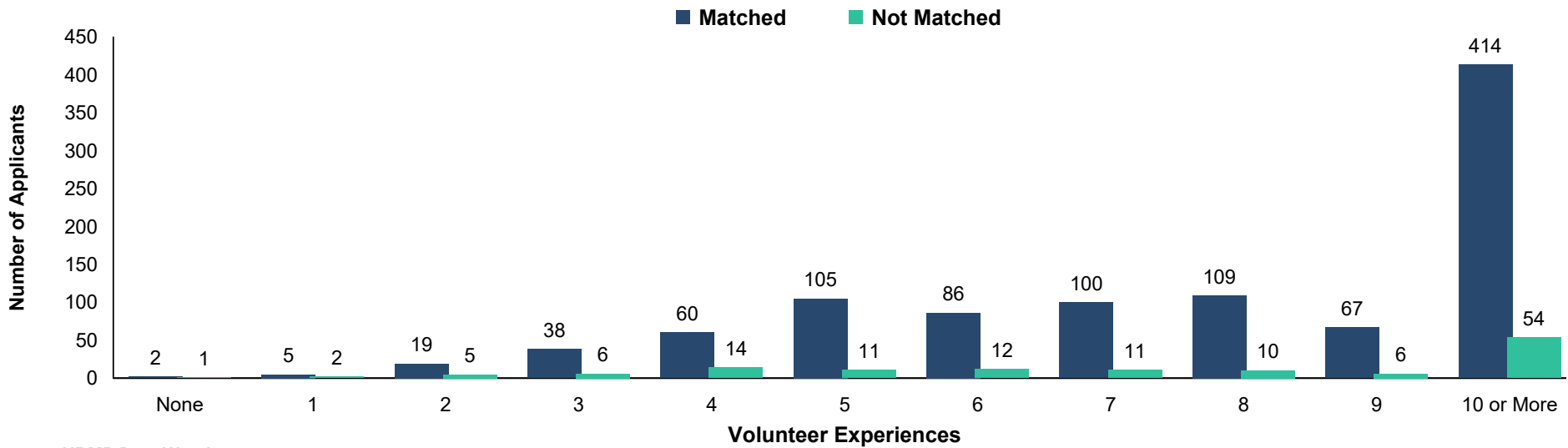
**Chart  
OB-7**

**Number of Work Experiences of U.S. Allopathic Seniors  
Obstetrics and Gynecology**



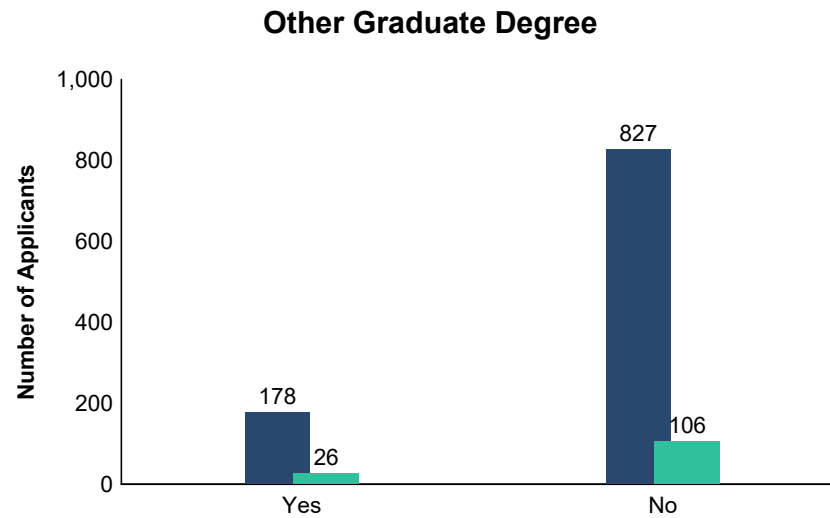
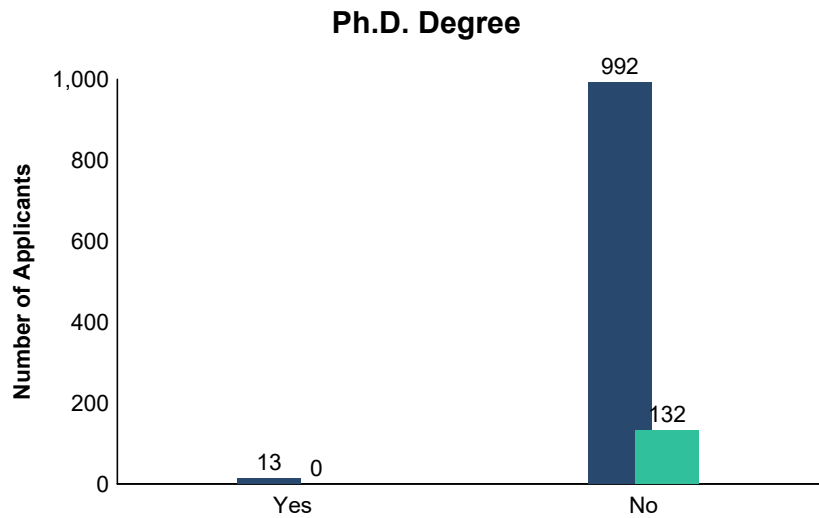
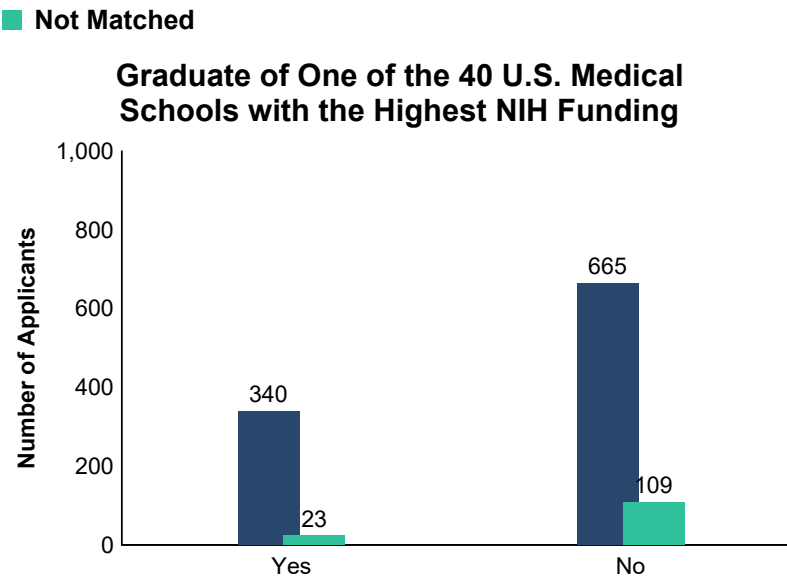
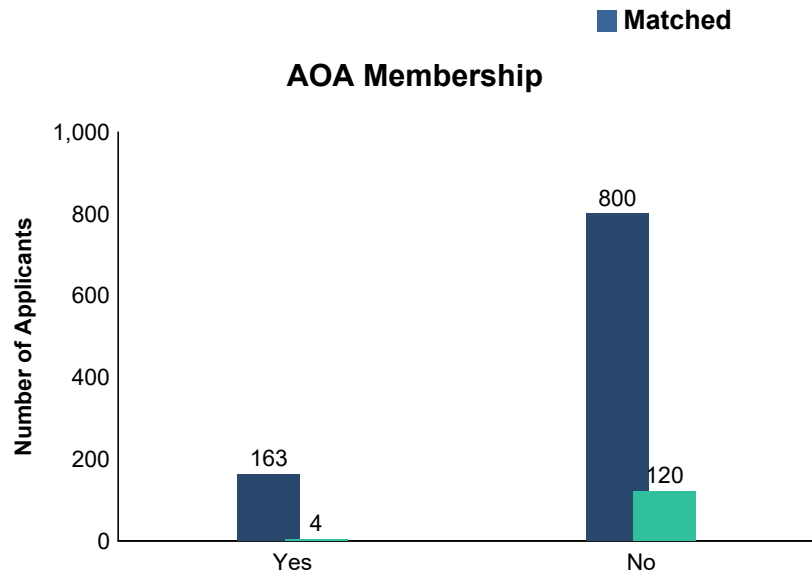
**Chart  
OB-8**

**Number of Volunteer Experiences of U.S. Allopathic Seniors  
Obstetrics and Gynecology**



Source: NRMP Data Warehouse

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



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

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**ORS** Orthopaedic Surgery

**Summary Statistics on U.S. Allopathic Seniors  
Orthopaedic Surgery**

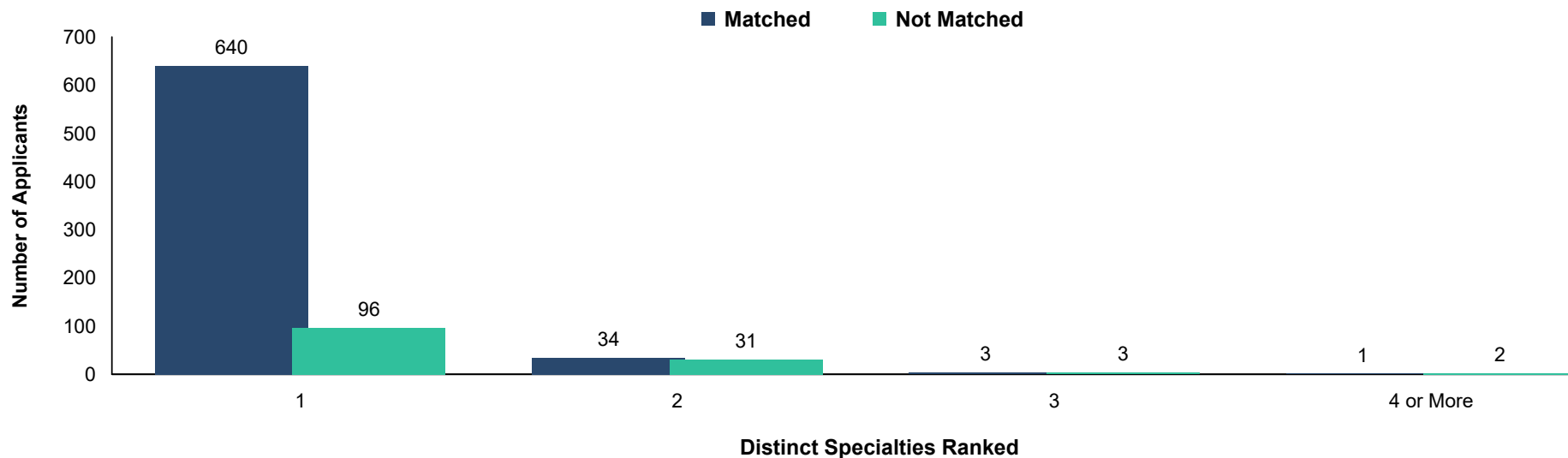
Measure	Matched (n=678)	Unmatched (n=132)
1. Mean number of contiguous ranks	12.5	6.6
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	248	240
4. Mean USMLE Step 2 score	255	246
5. Mean number of research experiences	4.9	4.9
6. Mean number of abstracts, presentations,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

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

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

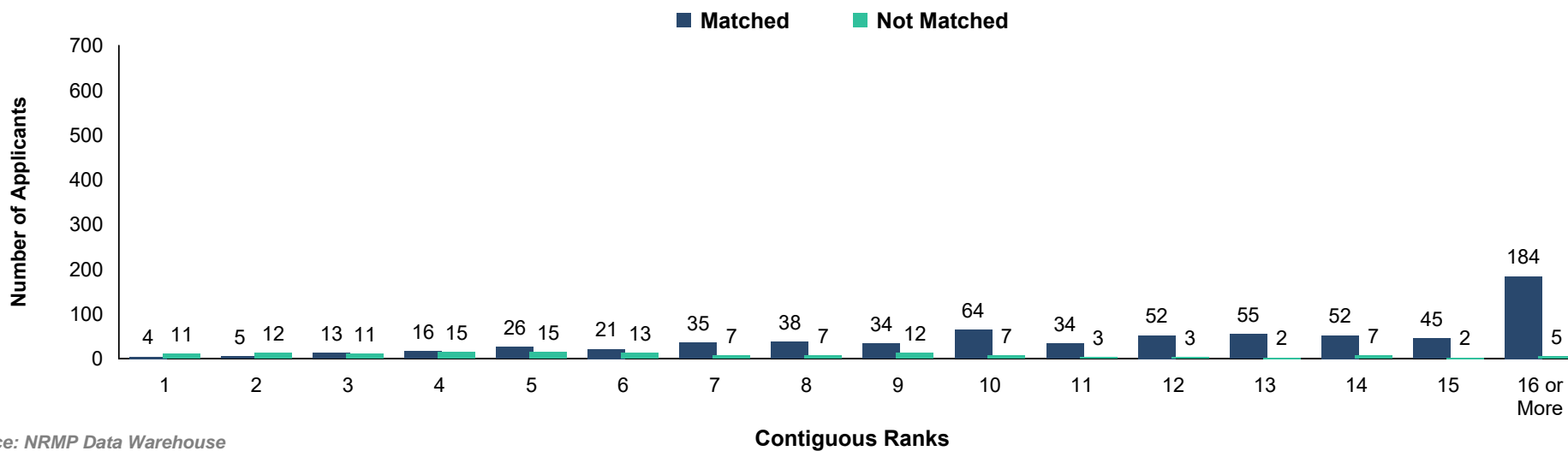
**Chart  
ORS-1**

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



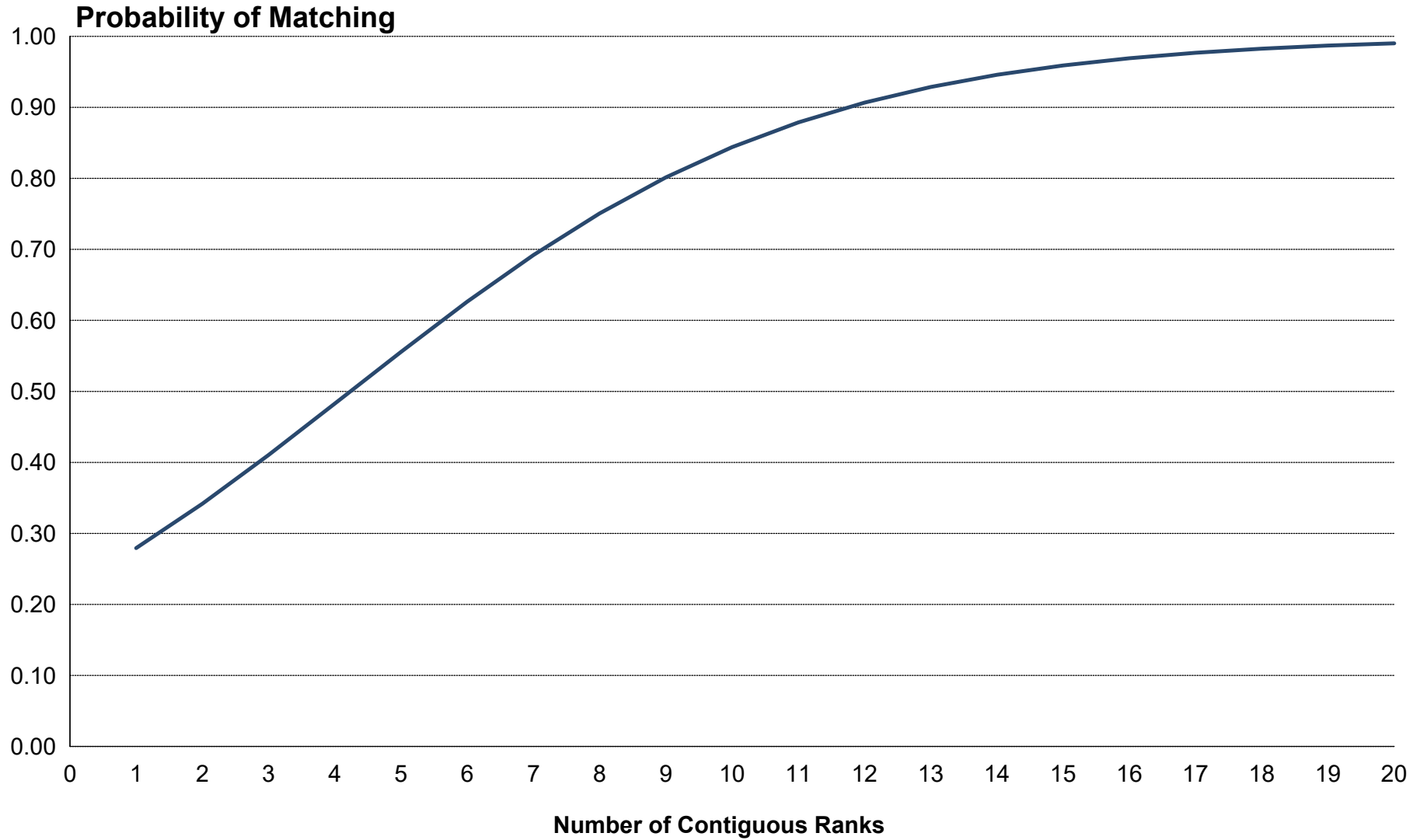
**Chart  
ORS-2**

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



Source: NRMP Data Warehouse

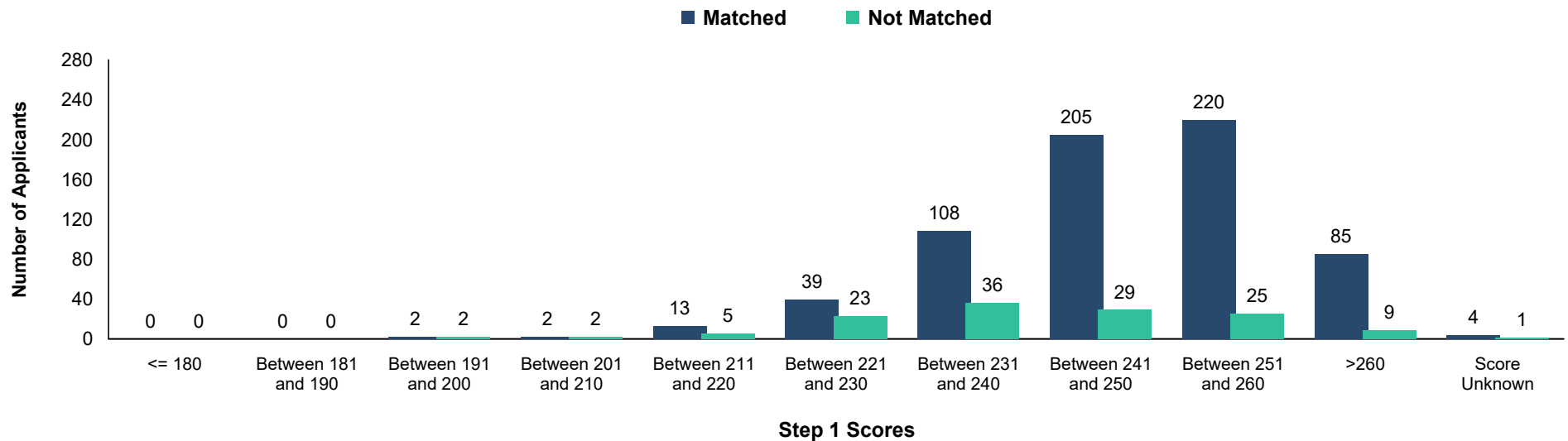
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by Number of Contiguous Ranks**  
*Orthopaedic Surgery*



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

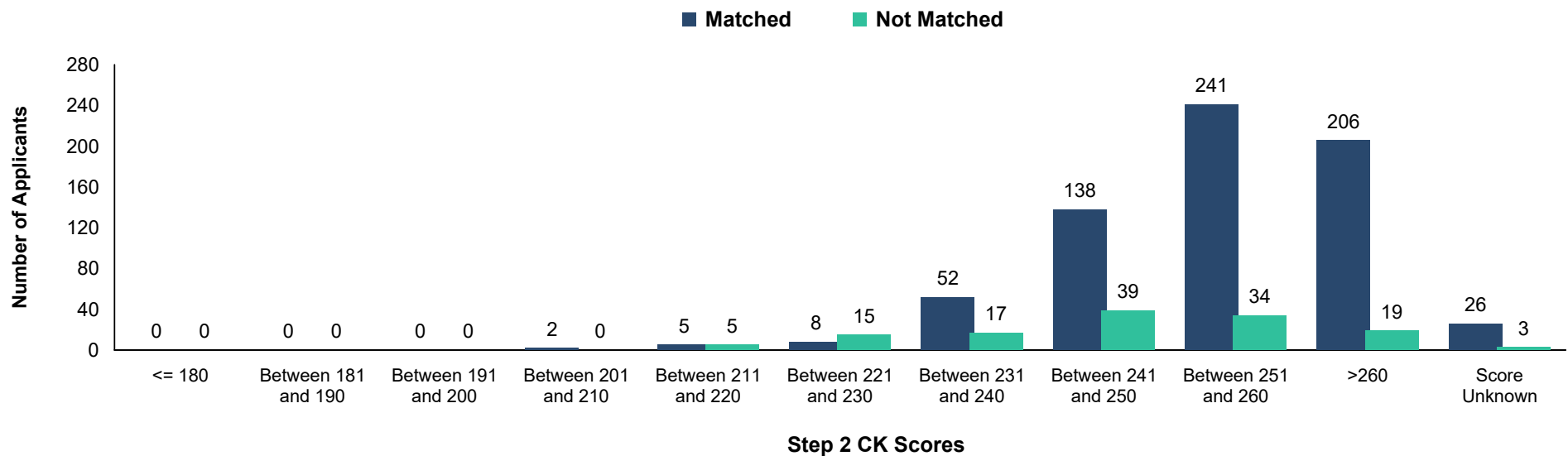
**Chart  
ORS-3**

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



**Chart  
ORS-4**

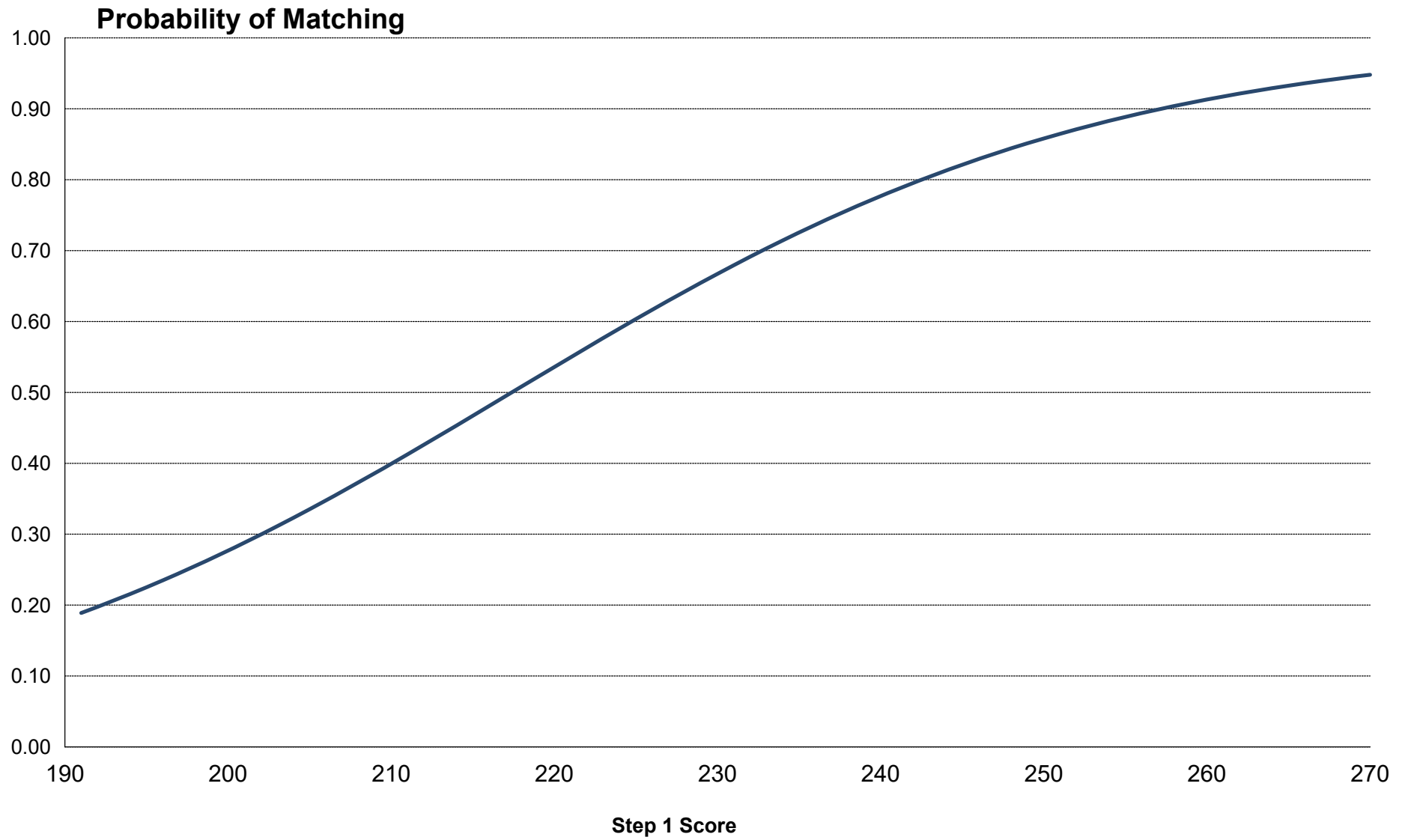
**USMLE Step 2 CK Scores of U.S. Allopathic Seniors  
*Orthopaedic Surgery***





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

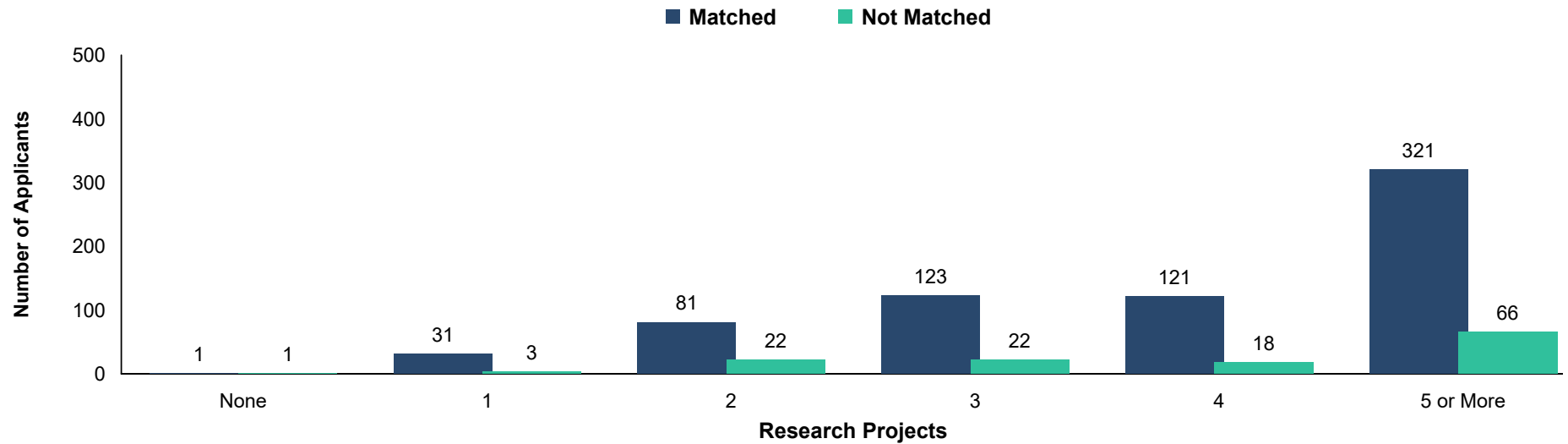
## Orthopaedic Surgery



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

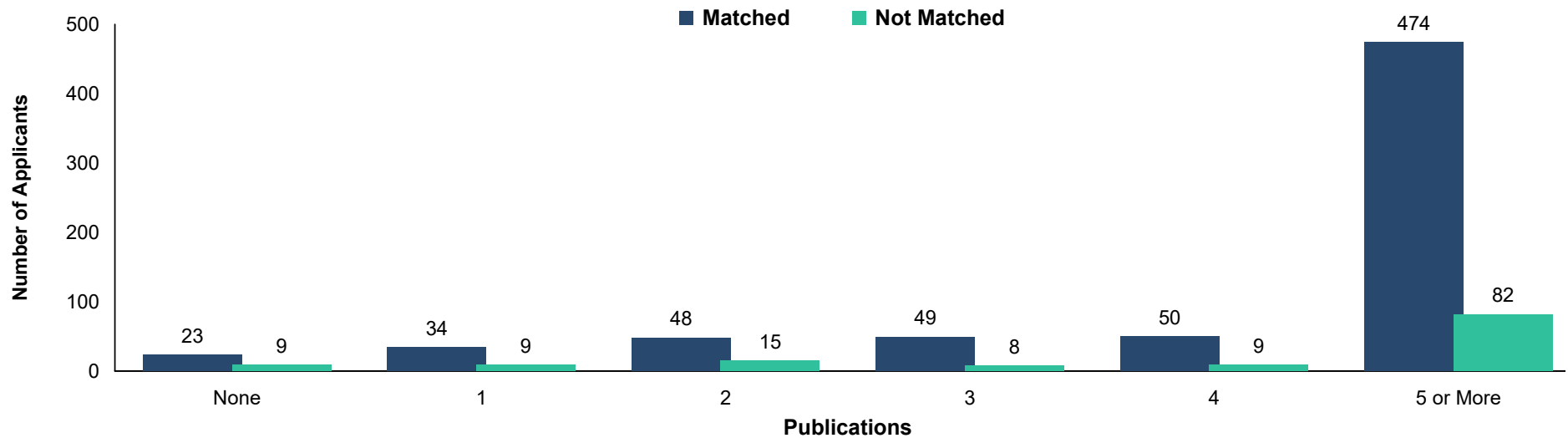
**Chart  
ORS-5**

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



**Chart  
ORS-6**

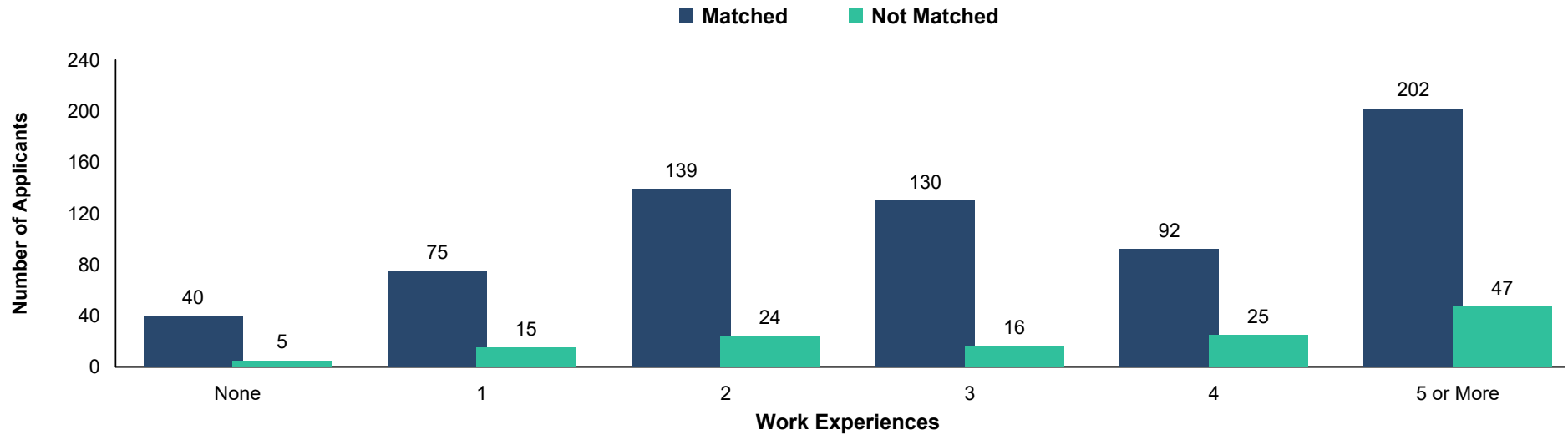
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Orthopaedic Surgery***



Source: NRMP Data Warehouse

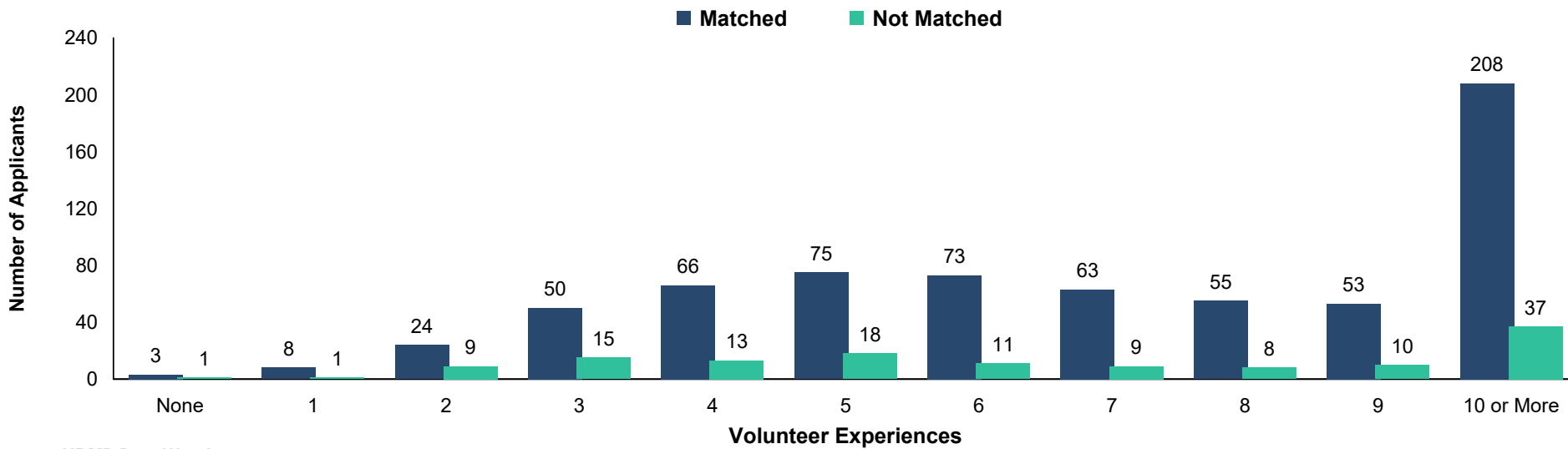
**Chart  
ORS-7**

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



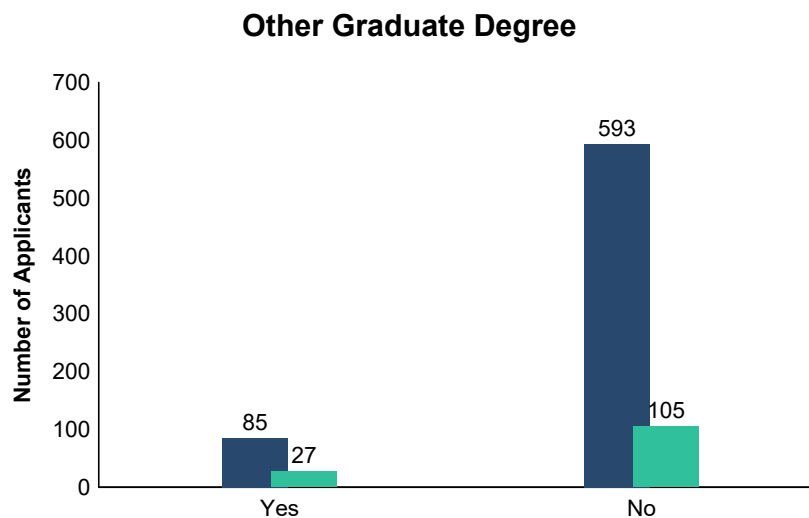
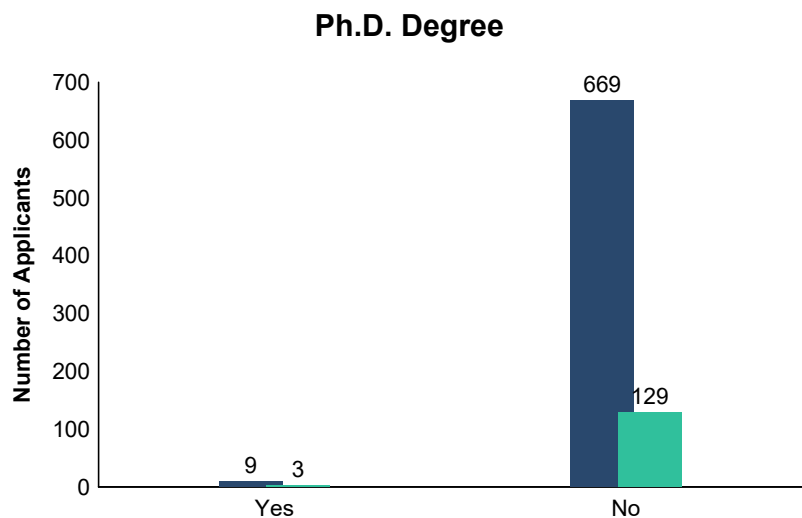
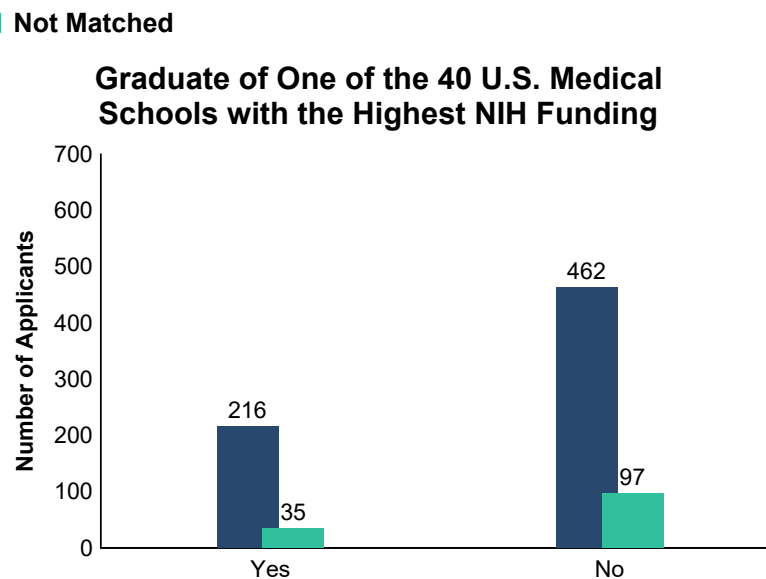
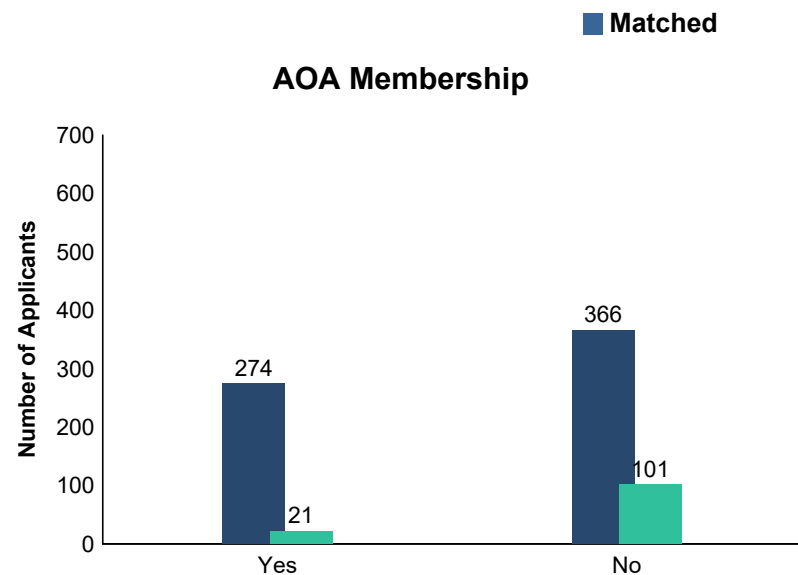
**Chart  
ORS-8**

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



Source: NRMP Data Warehouse

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



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

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**OTO** Otolaryngology

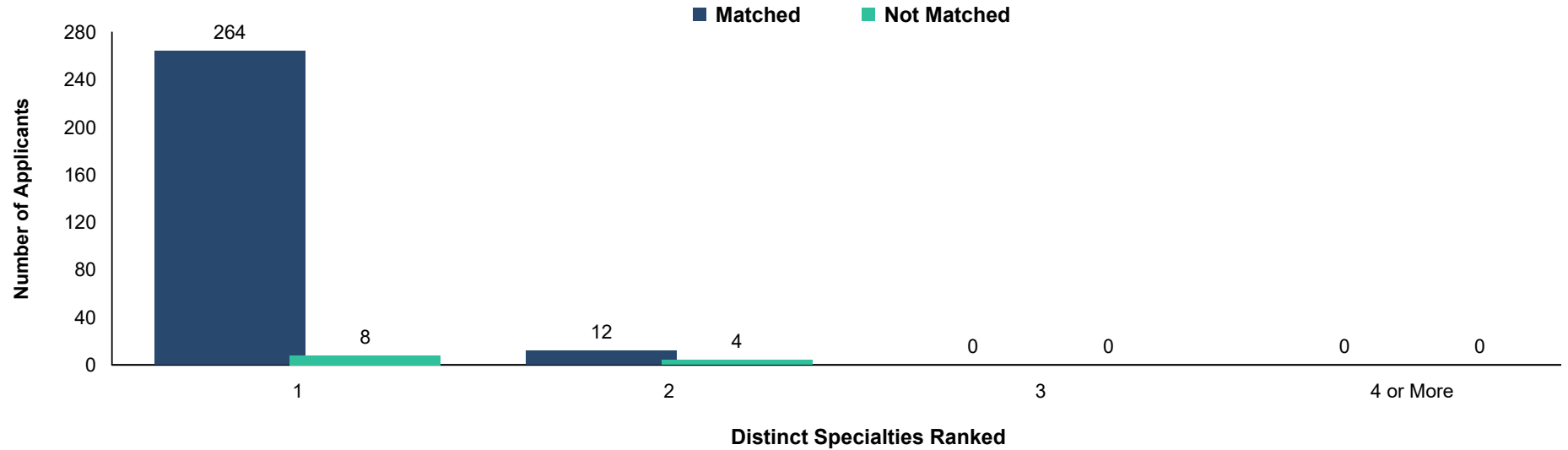
Measure	Matched (n=276)	Unmatched (n=12)
1. Mean number of contiguous ranks	14.3	5.7
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	248	238
4. Mean USMLE Step 2 score	254	242
5. Mean number of research experiences	5.3	3.6
6. Mean number of abstracts, presentations, and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

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

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

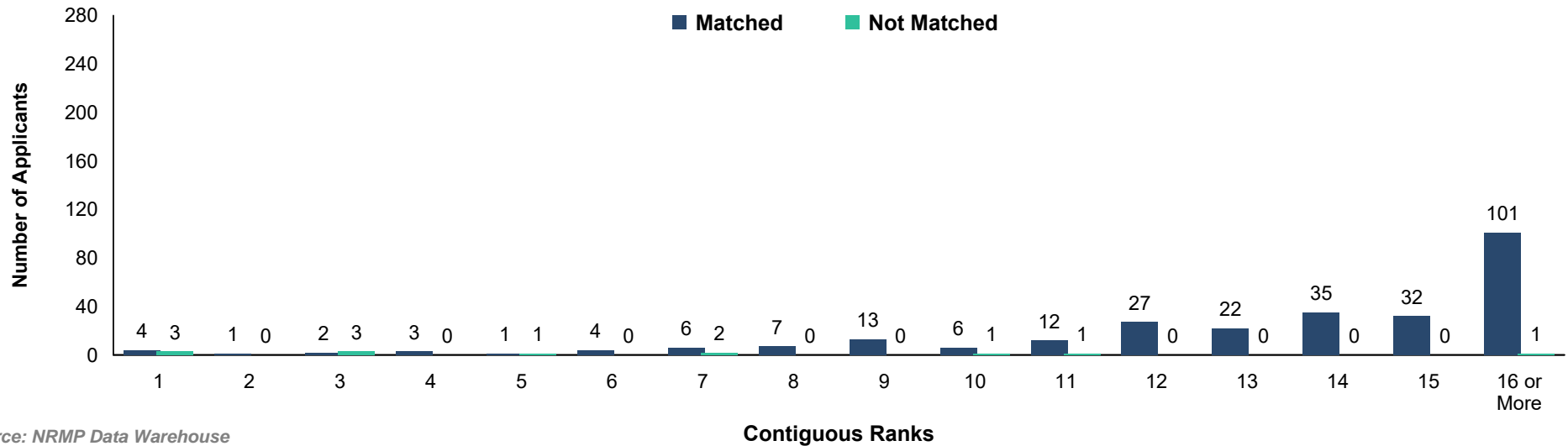
**Chart  
OTO-1**

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



**Chart  
OTO-2**

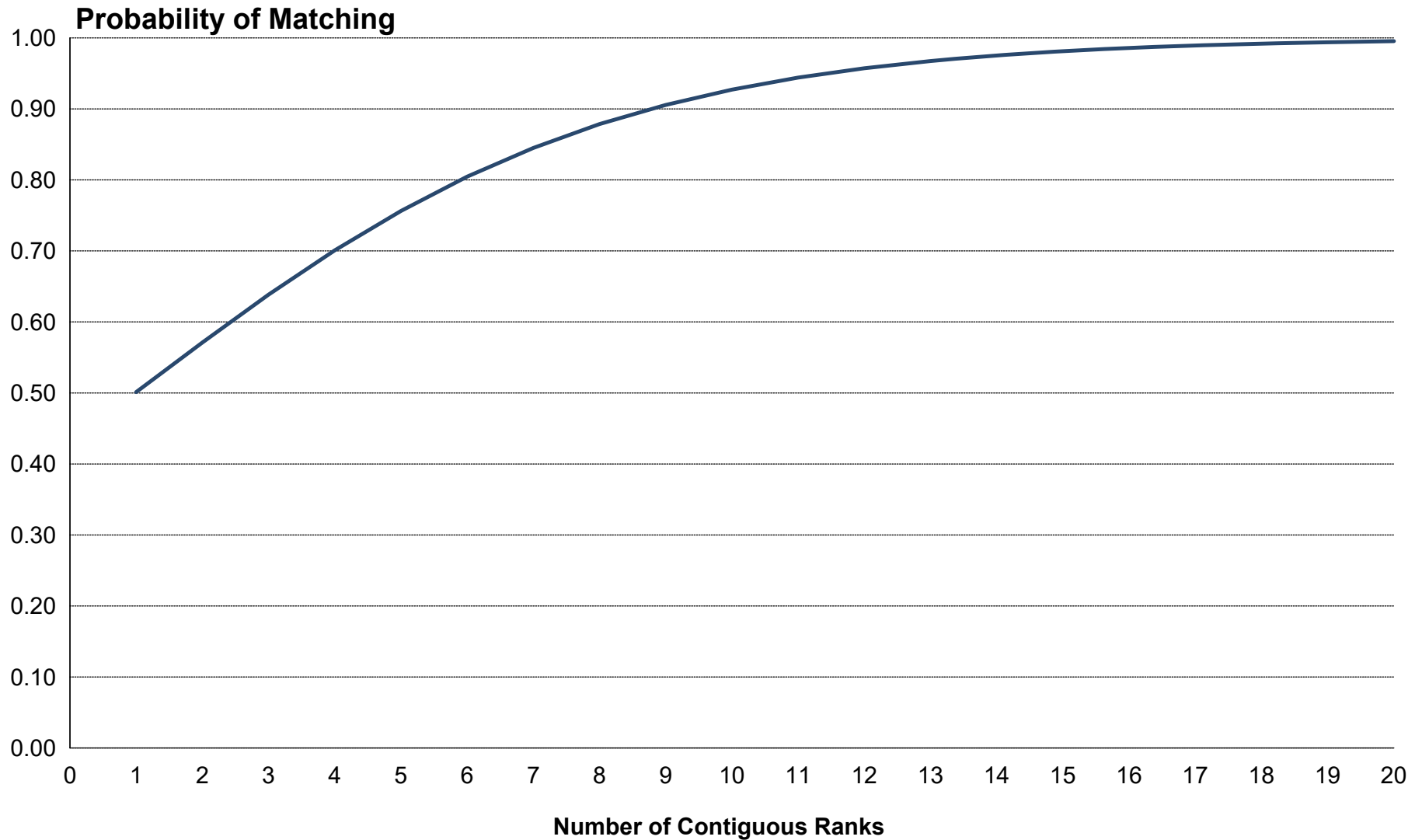
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Otolaryngology**



Source: NRMP Data Warehouse

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

Otolaryngology

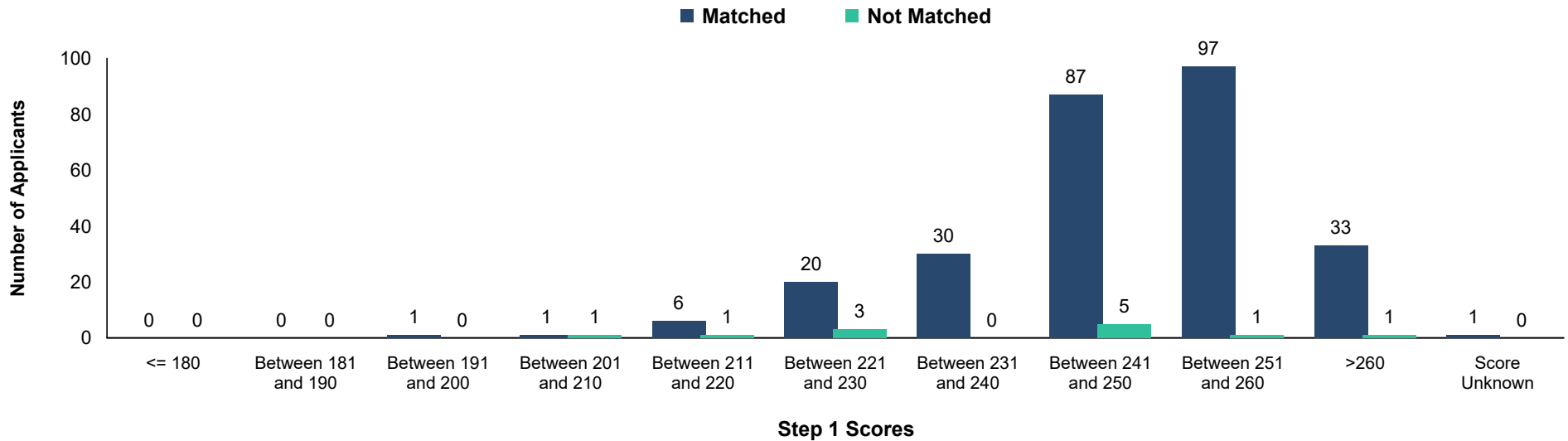


Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants



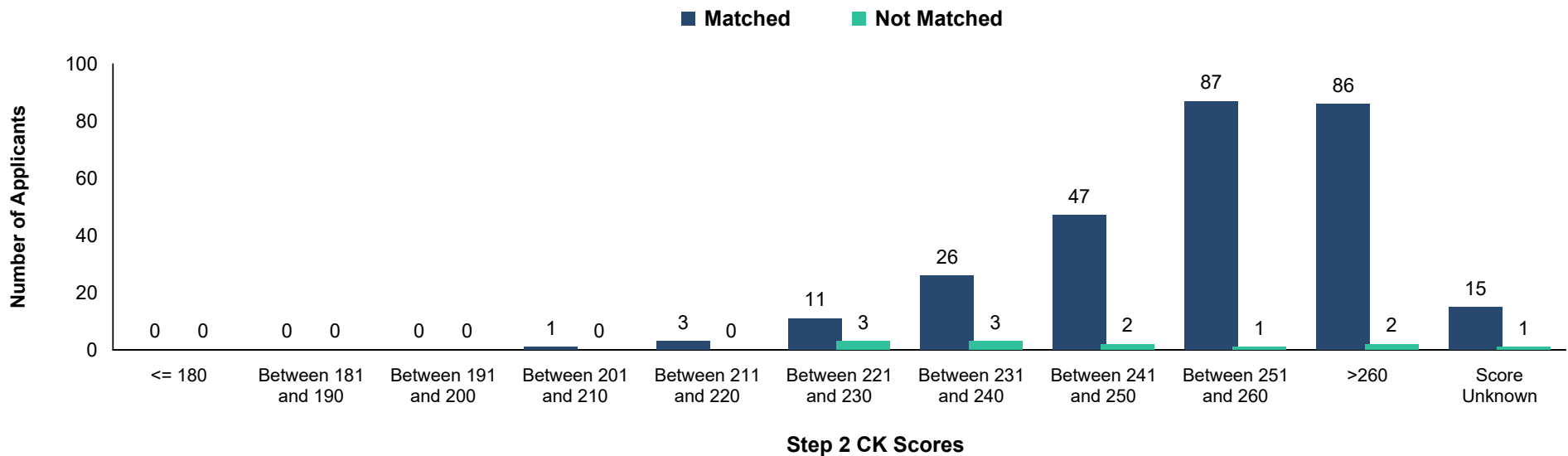
**Chart  
OTO-3**

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



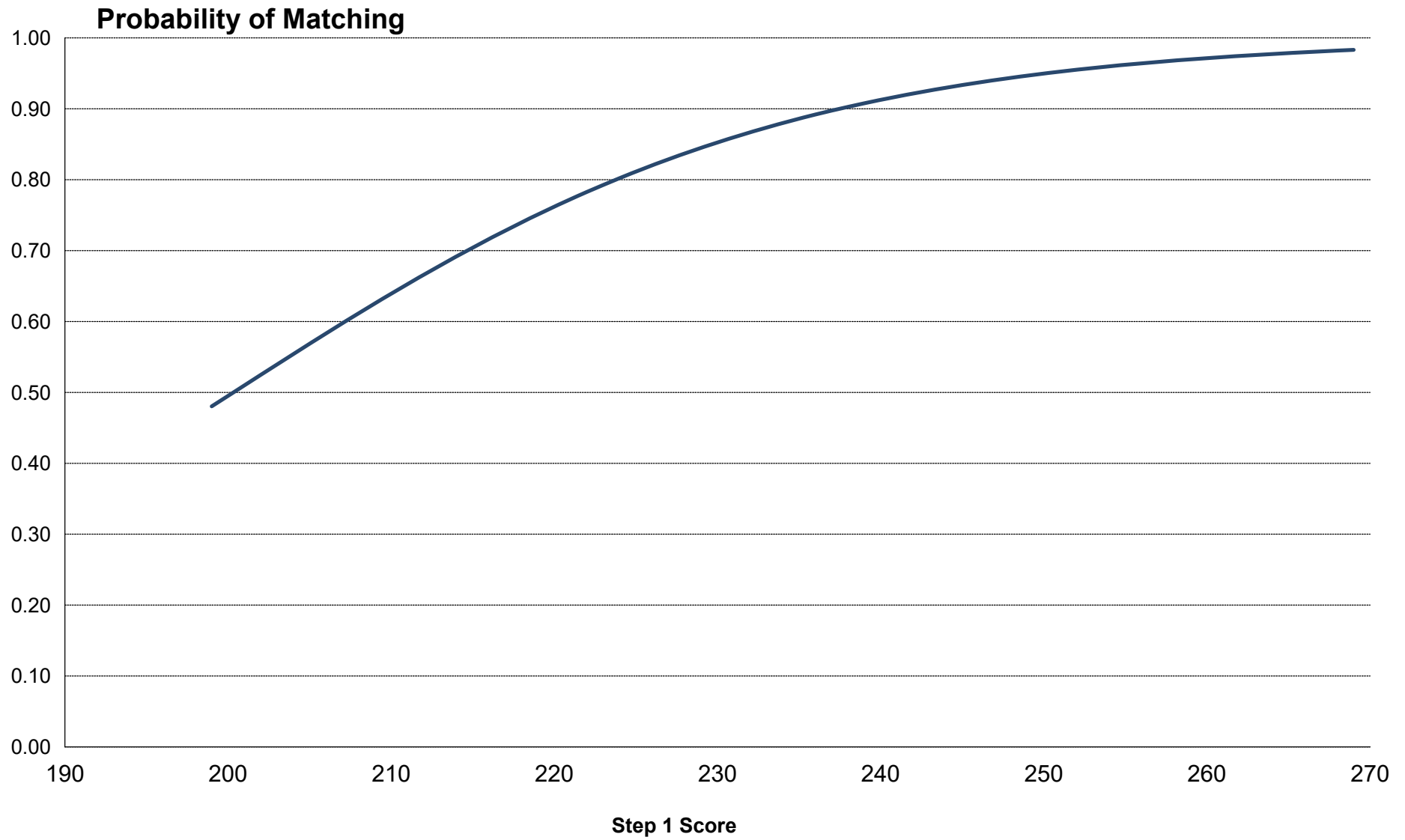
**Chart  
OTO-4**

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



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

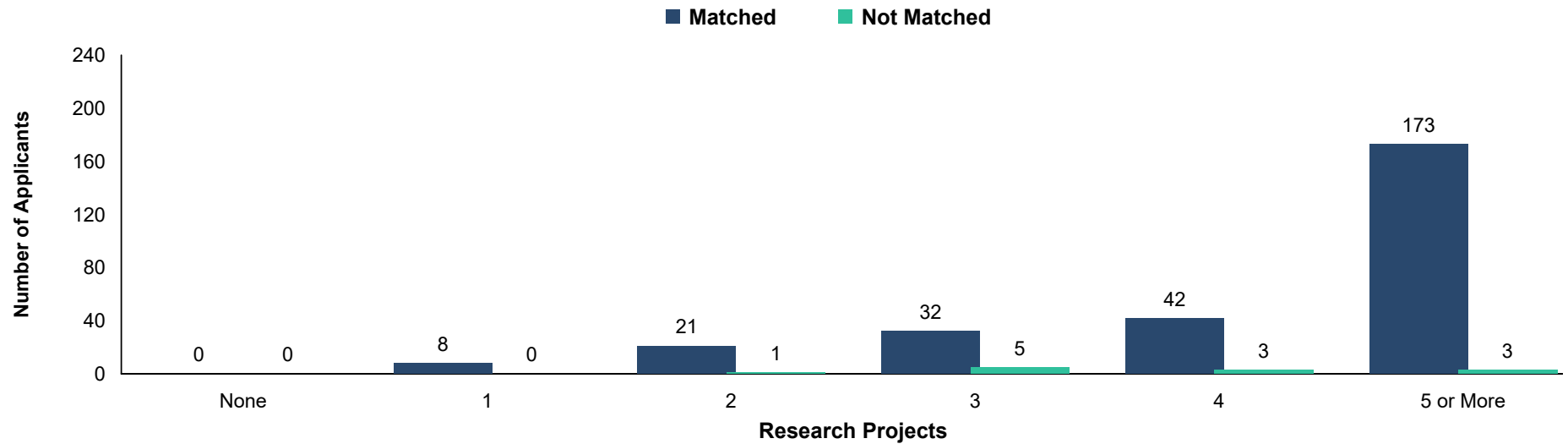
## Otolaryngology



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

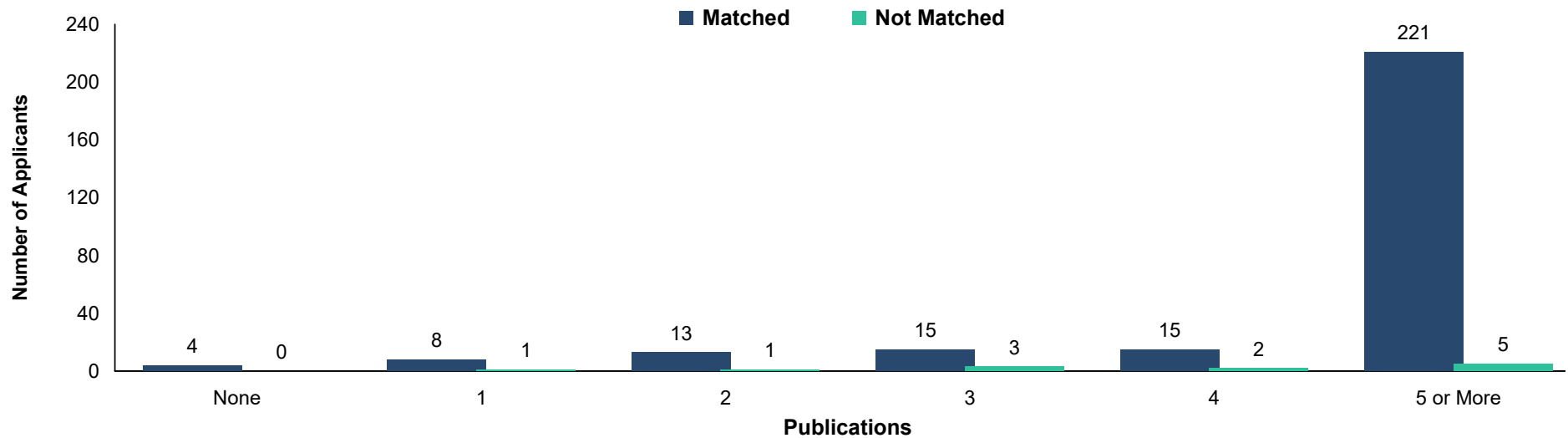
**Chart  
OTO-5**

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



**Chart  
OTO-6**

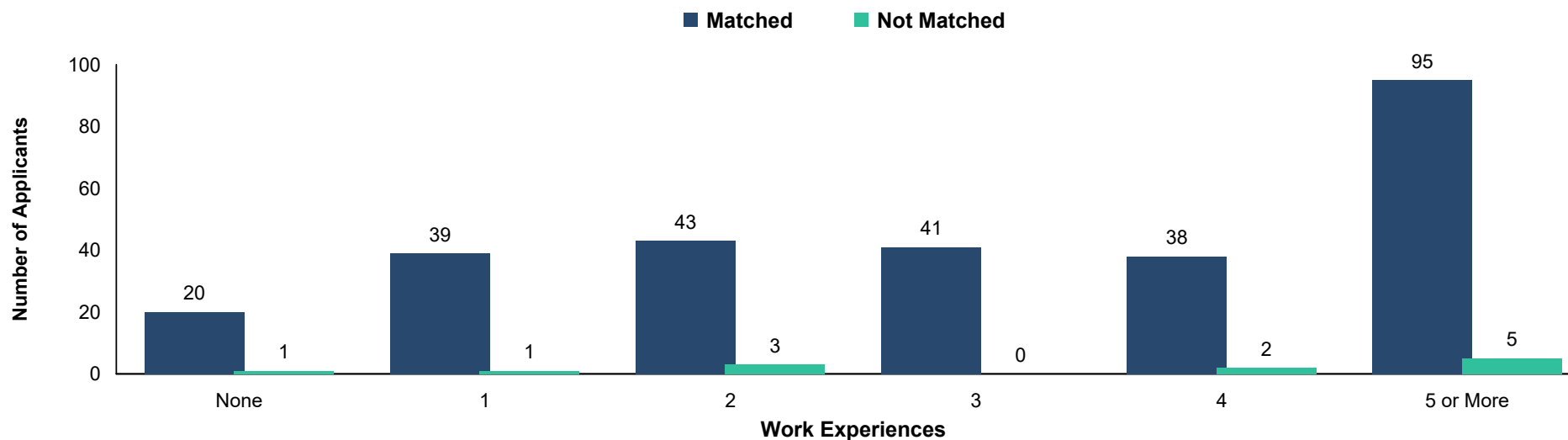
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Otolaryngology**



Source: NRMP Data Warehouse

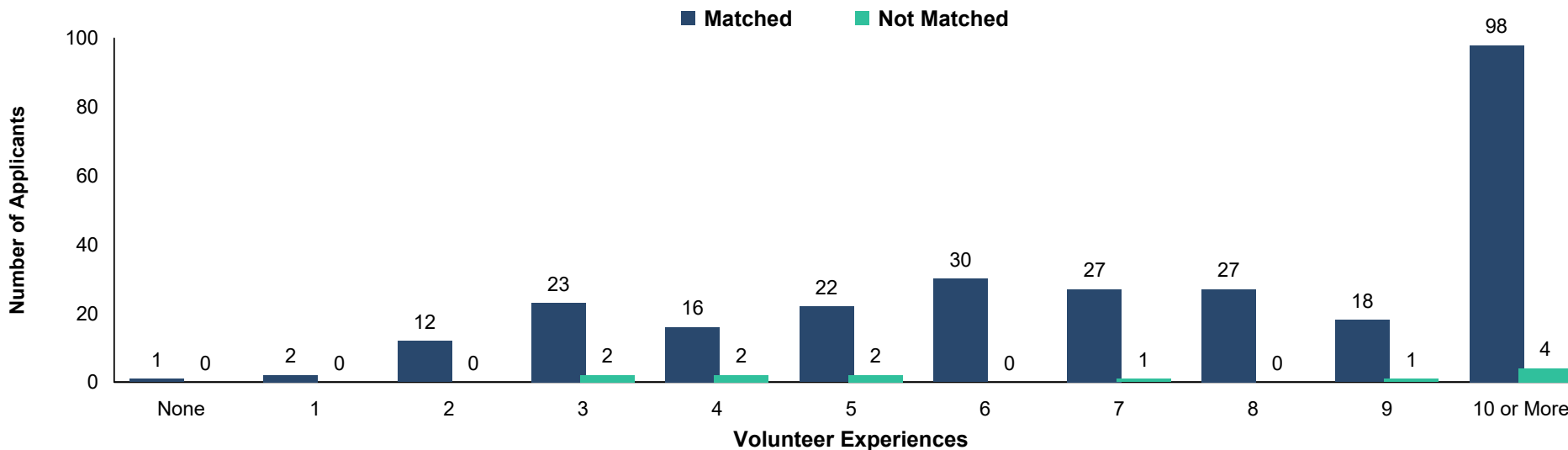
**Chart  
OTO-7**

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



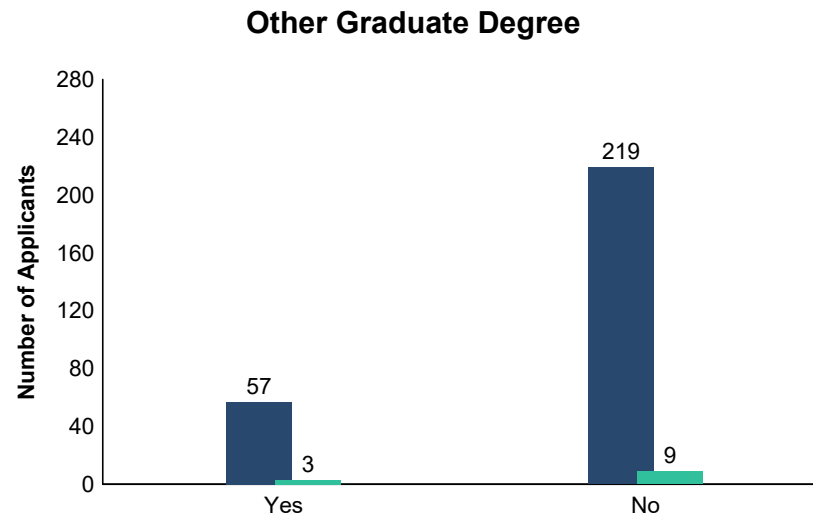
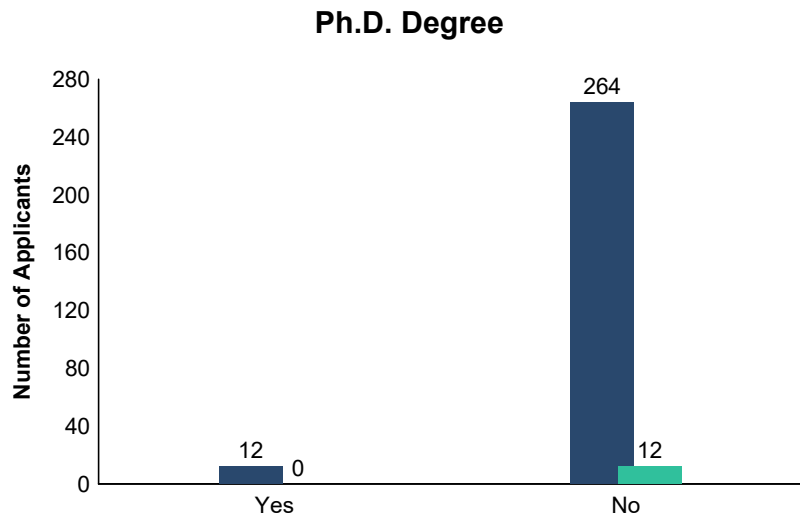
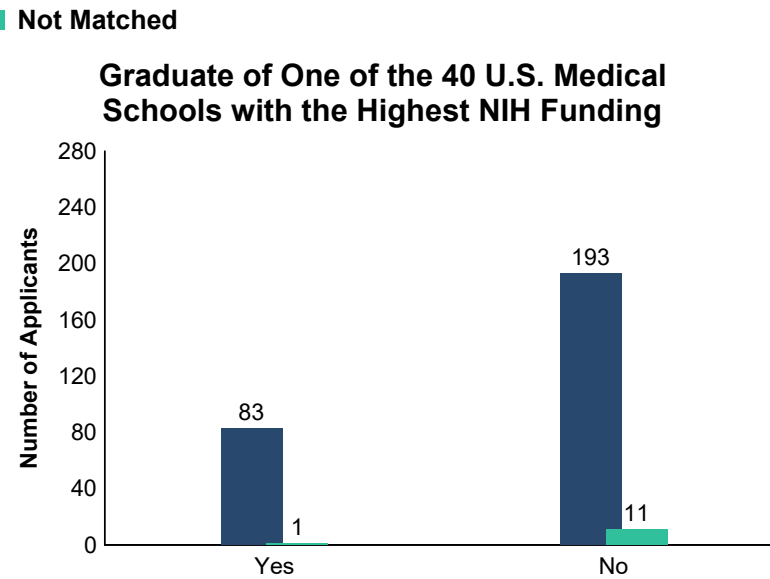
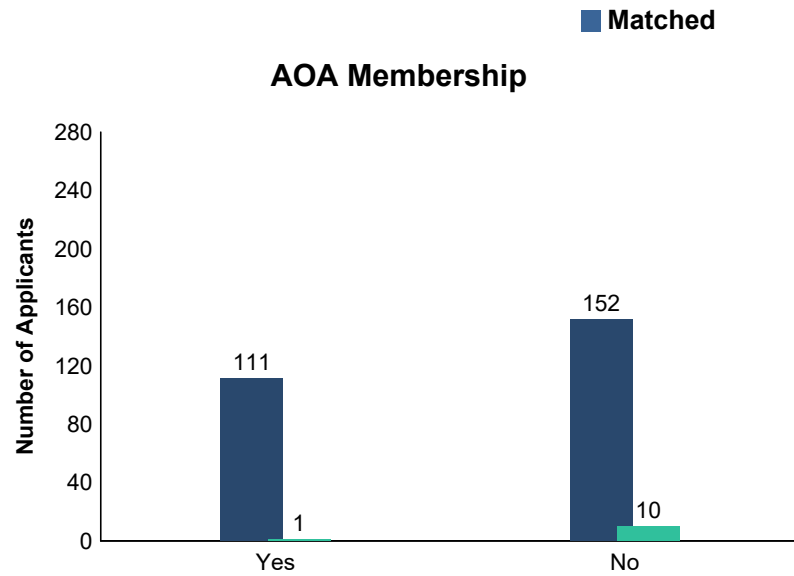
**Chart  
OTO-8**

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



Source: NRMP Data Warehouse

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



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

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**PTH** Pathology

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

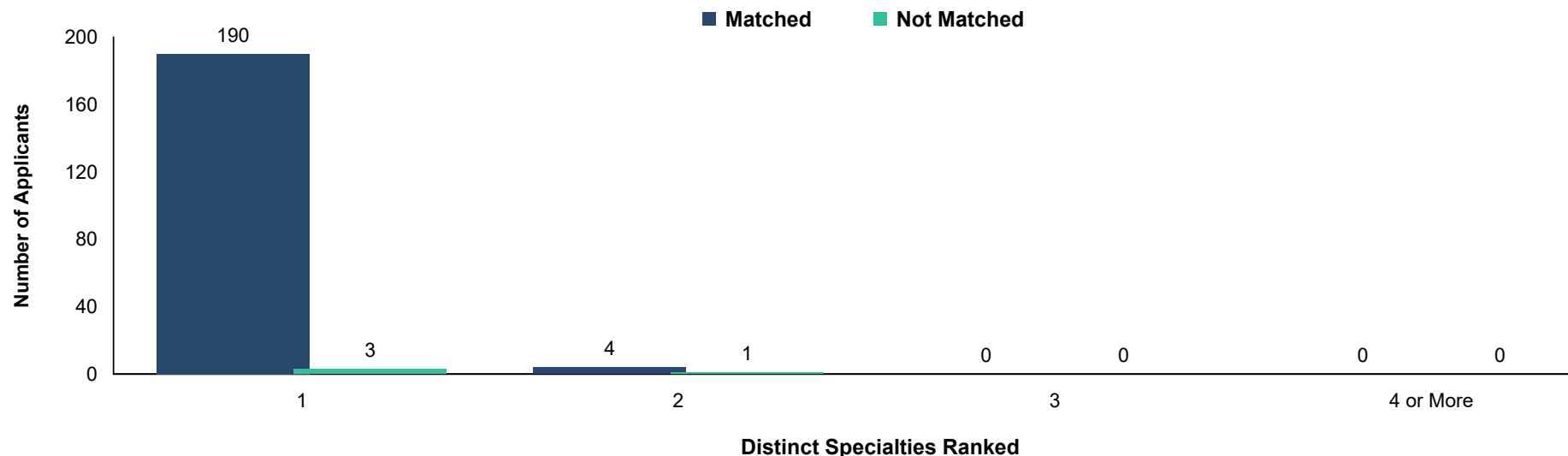
Measure	Matched (n=194)	Unmatched (n=4)
1. Mean number of contiguous ranks	10.8	6.3
2. Mean number of distinct specialties ranked	1.0	1.3
3. Mean USMLE Step 1 score	233	216
4. Mean USMLE Step 2 score	242	238
5. Mean number of research experiences	2.9	2.8
6. Mean number of abstracts, presentations, and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

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

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

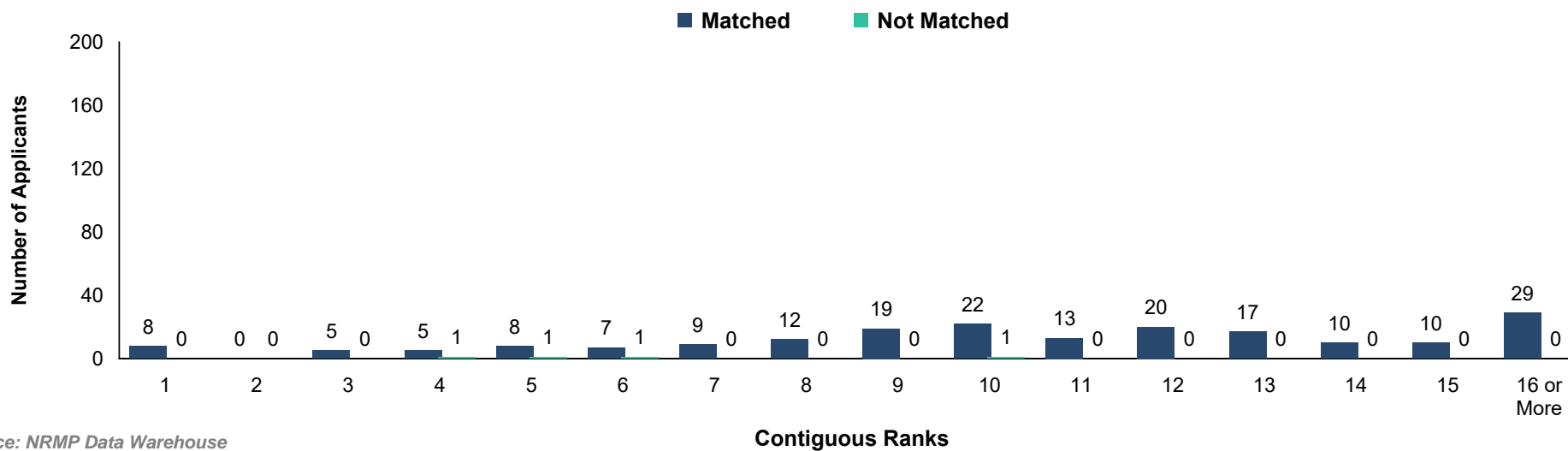
**Chart  
PTH-1**

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



**Chart  
PTH-2**

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

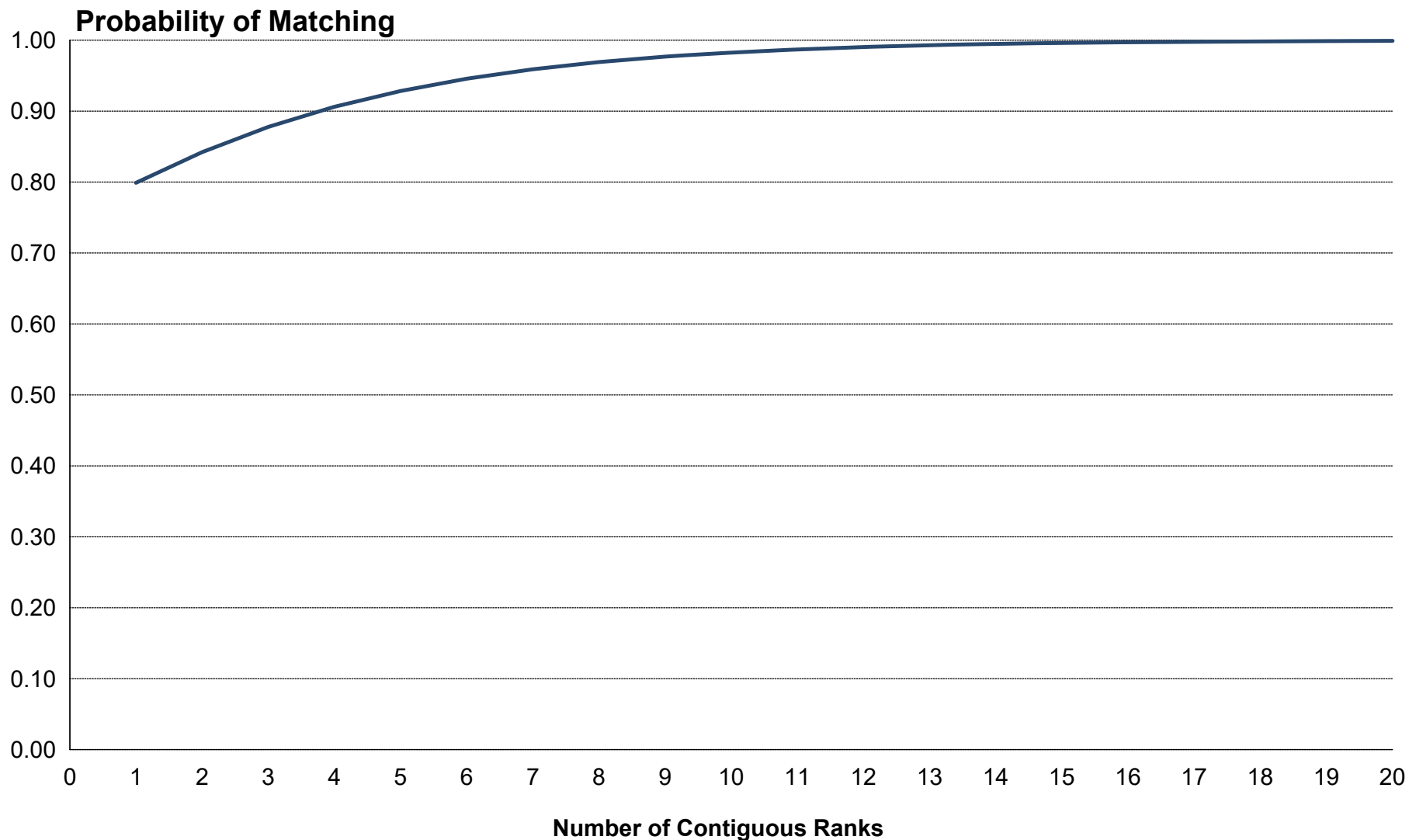


Source: NRMP Data Warehouse



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

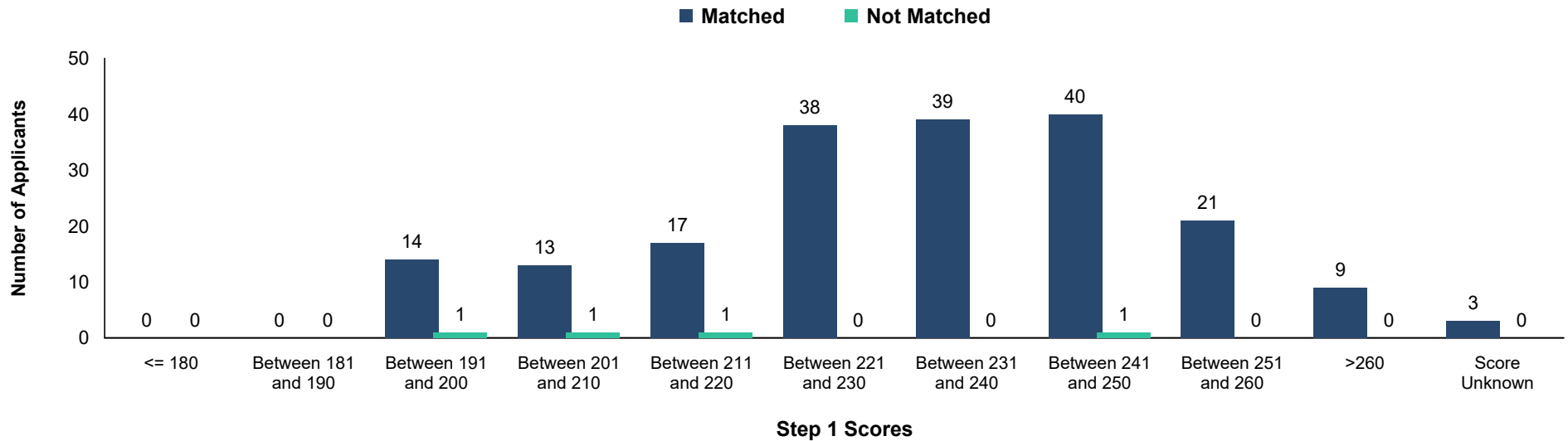
*Pathology*



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

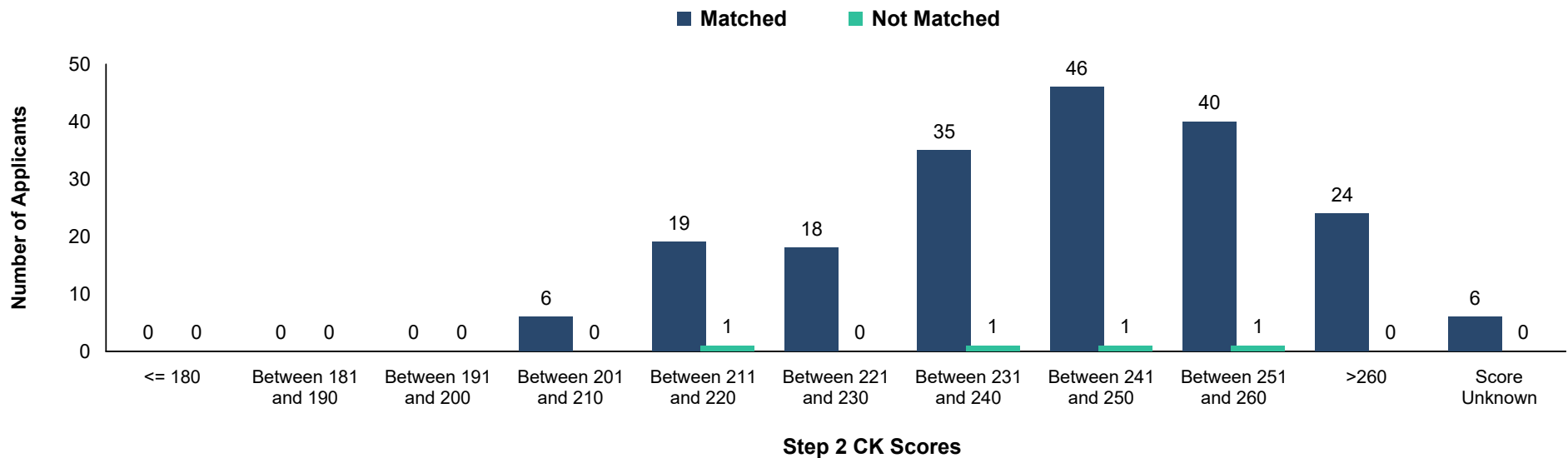
**Chart  
PTH-3**

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



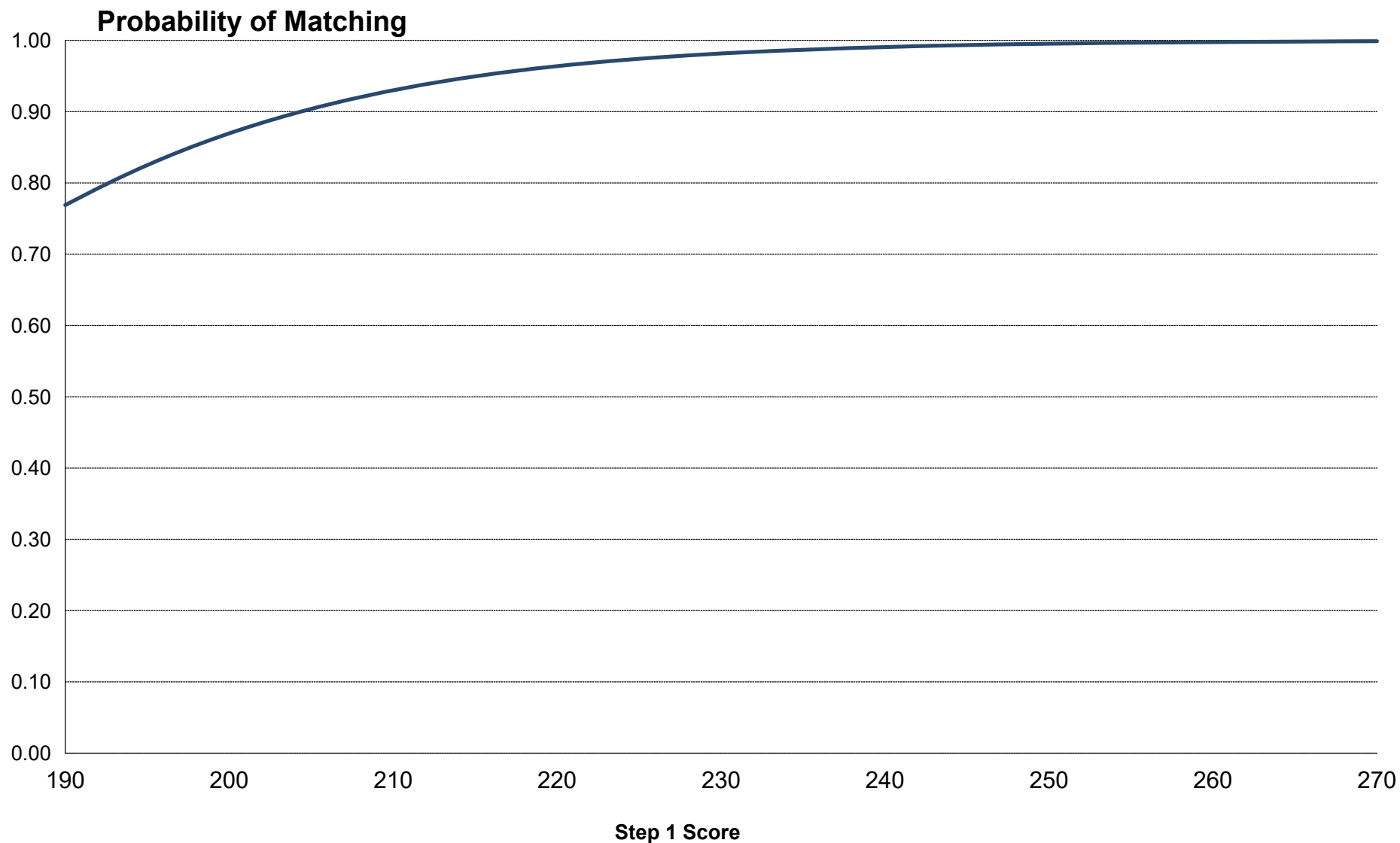
**Chart  
PTH-4**

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



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

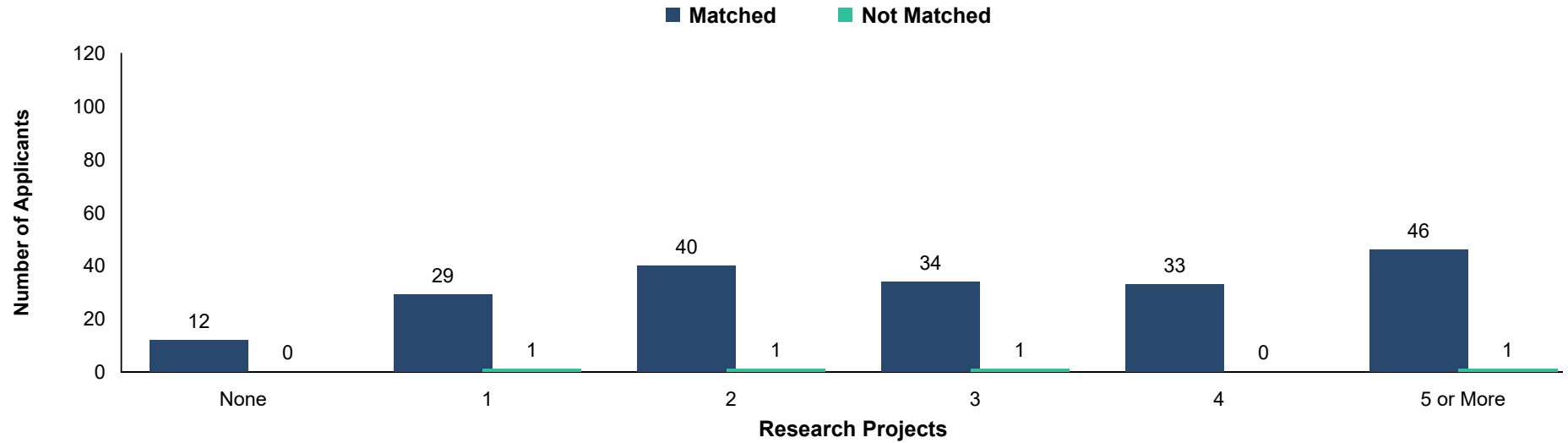
*Pathology*



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

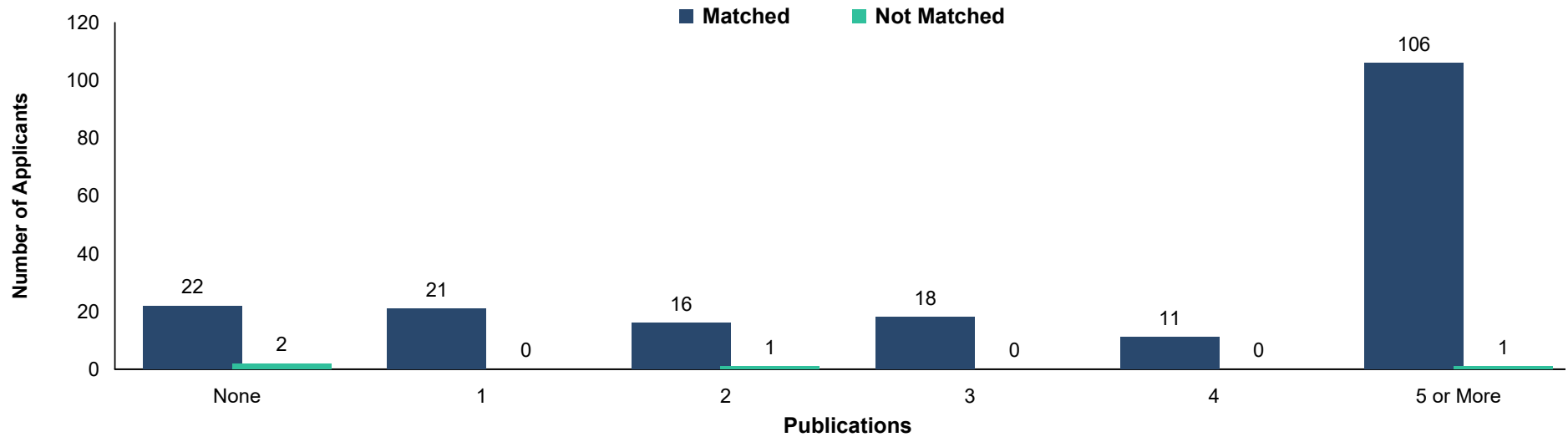
**Chart  
PTH-5**

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



**Chart  
PTH-6**

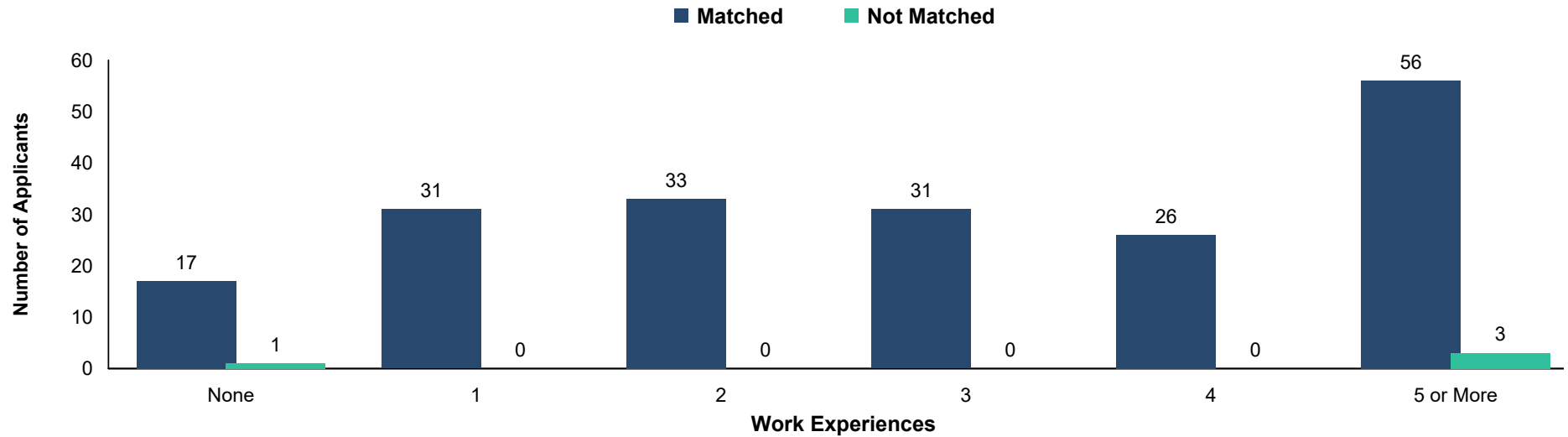
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
Pathology**



Source: NRMP Data Warehouse

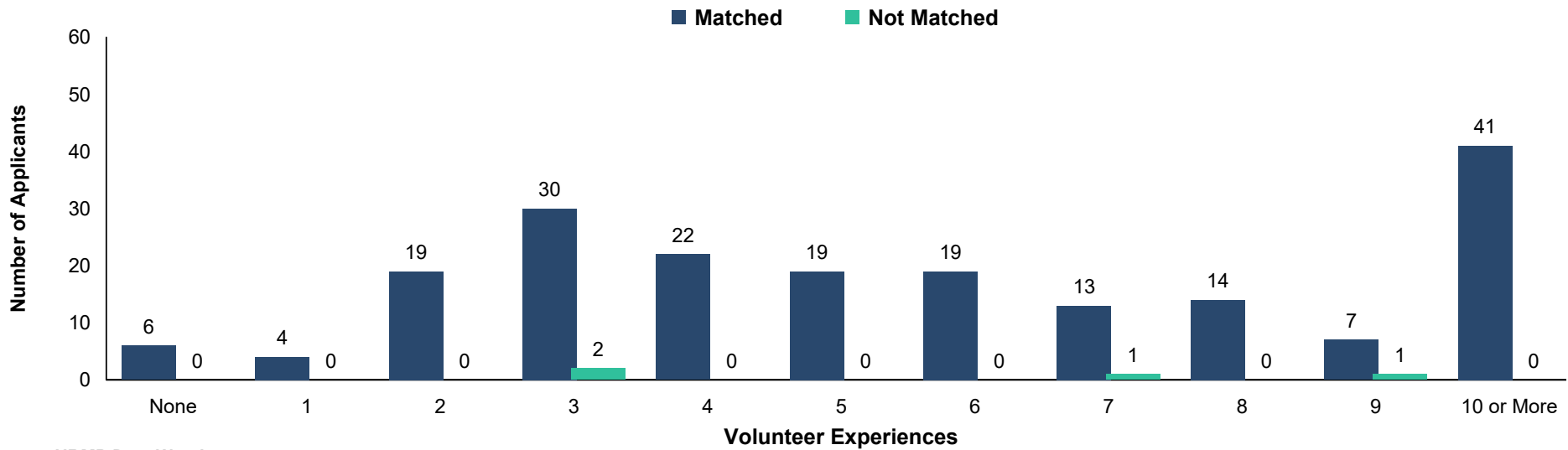
**Chart  
PTH-7**

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



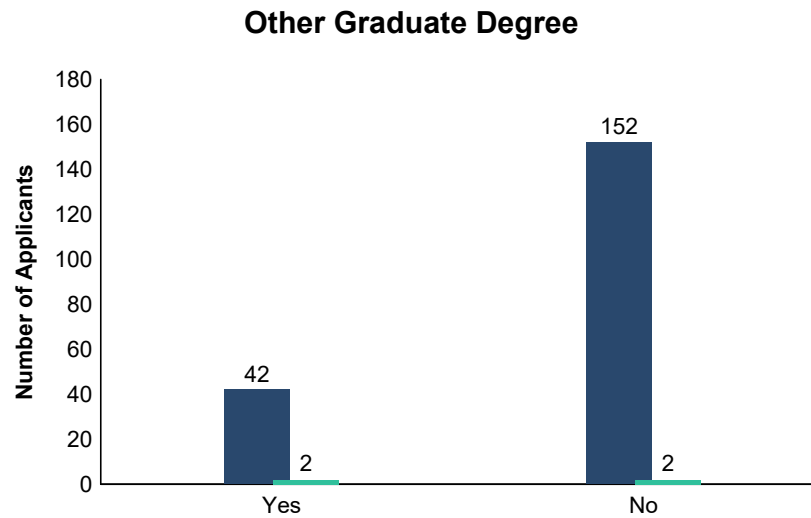
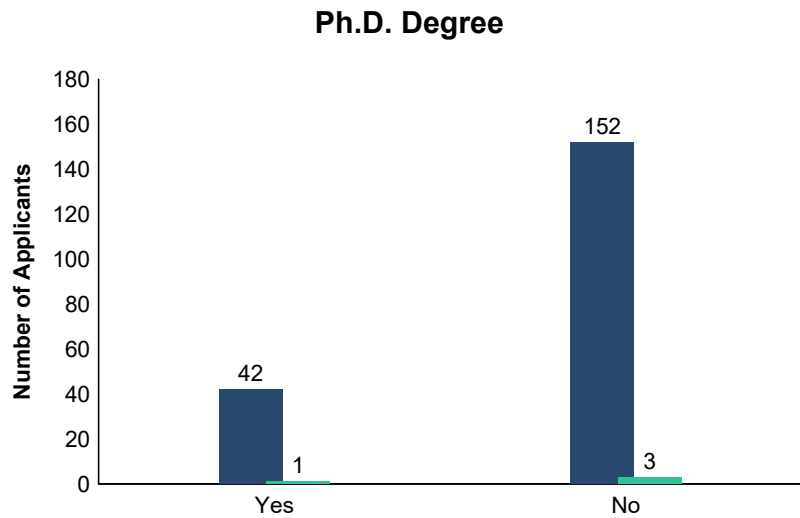
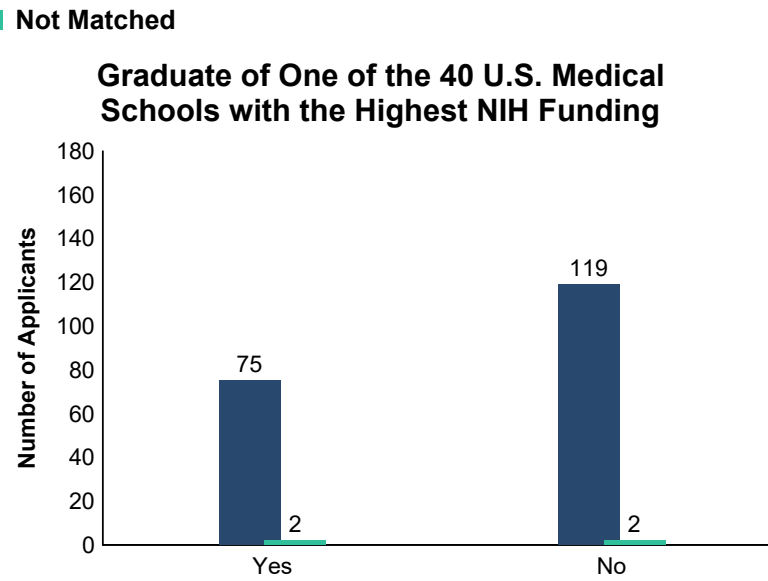
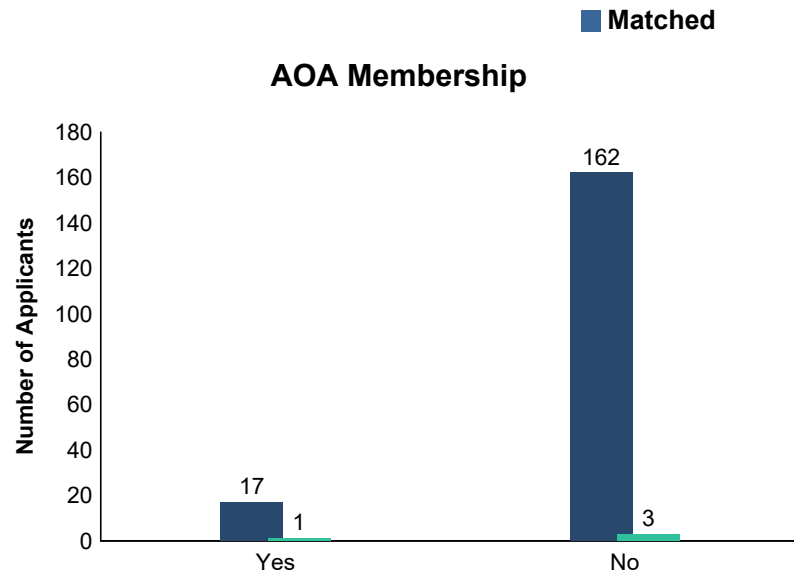
**Chart  
PTH-8**

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



Source: NRMP Data Warehouse

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



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

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**PD** Pediatrics

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

Measure	Matched (n=1,640)	Unmatched (n=18)
1. Mean number of contiguous ranks	12.5	4.3
2. Mean number of distinct specialties ranked	1.0	1.2
3. Mean USMLE Step 1 score	227	209
4. Mean USMLE Step 2 score	243	222
5. Mean number of research experiences	2.8	2.5
6. Mean number of abstracts, presentations, and publications	4.1	3.2
7. Mean number of work experiences	3.1	3.2
8. Mean number of volunteer experiences	8.3	6.6
9. Percentage who are AOA members	14.6	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	29.8	5.6
11. Percentage who have Ph.D. degree	3.1	0.0
12. Percentage who have another graduate degree	14.7	14.3

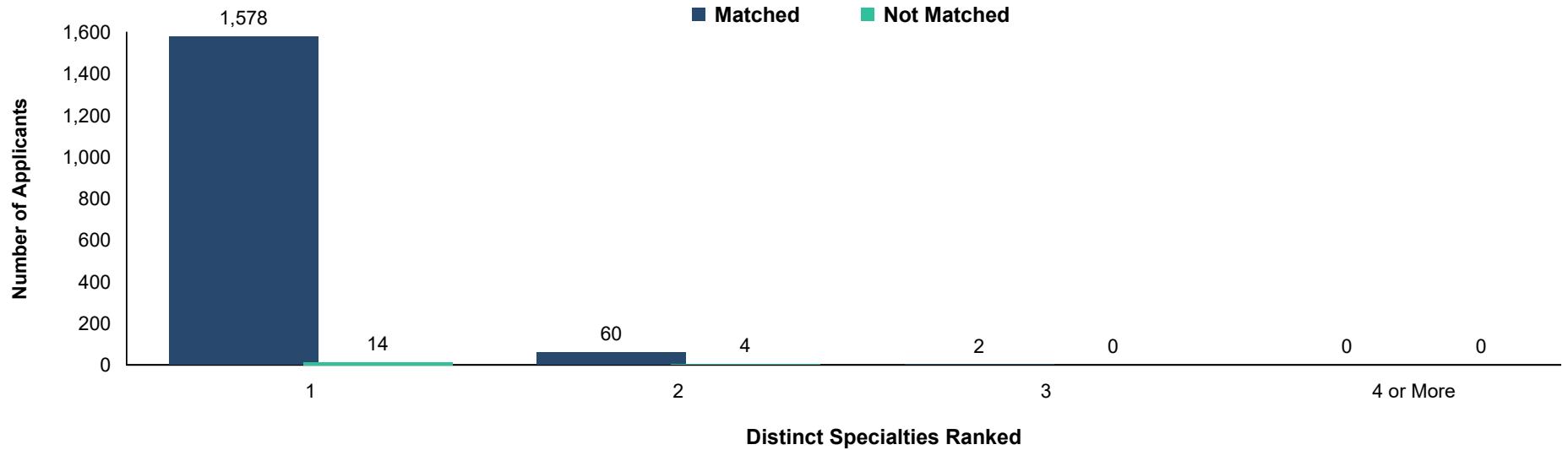
Note: Only U.S. allopathic seniors who gave consent to use their information in research are included.

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



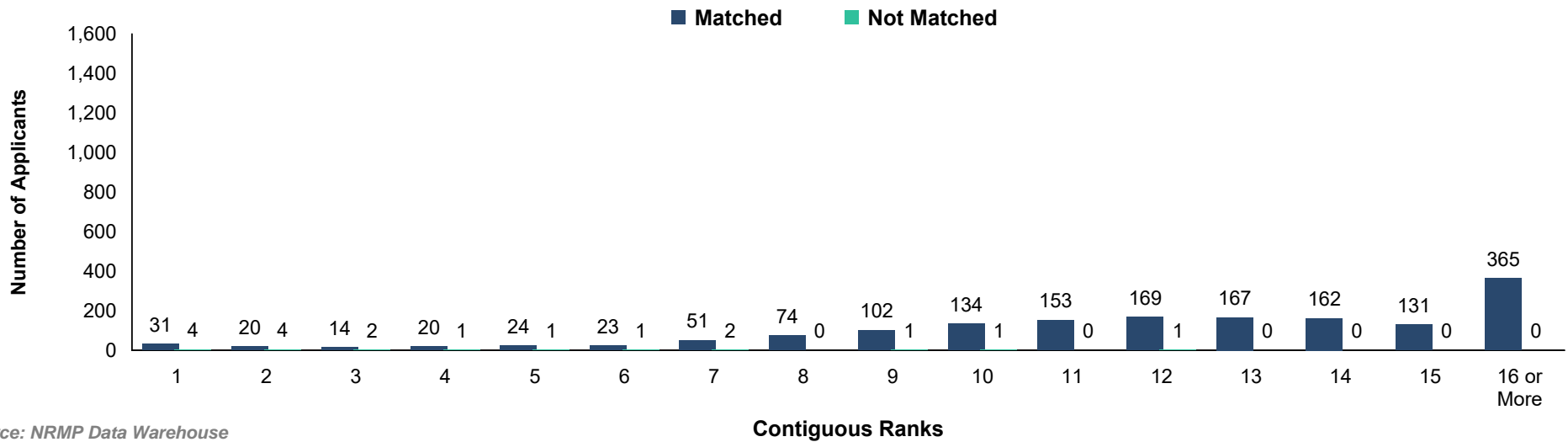
**Chart  
PD-1**

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



**Chart  
PD-2**

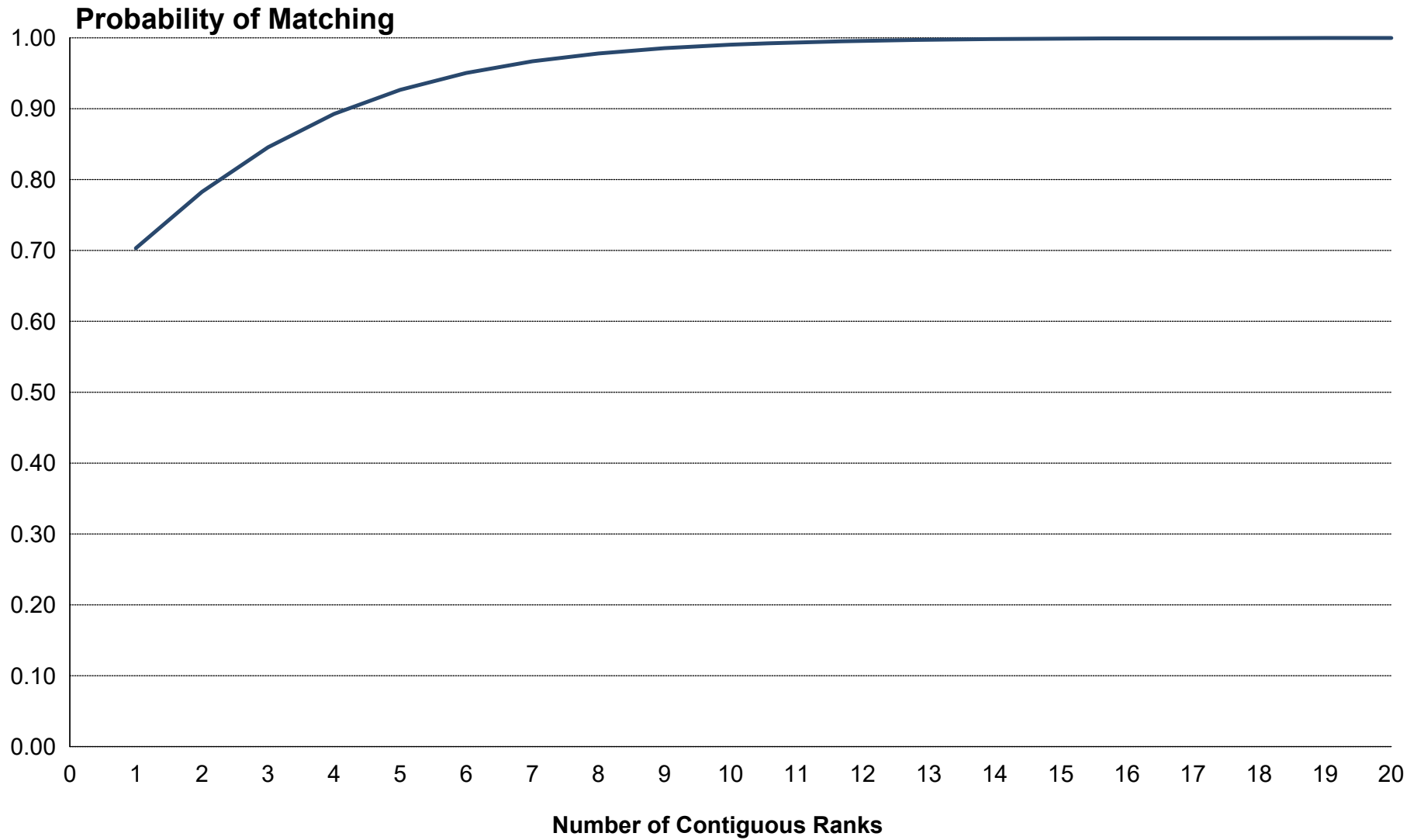
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Pediatrics***



Source: NRMP Data Warehouse

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

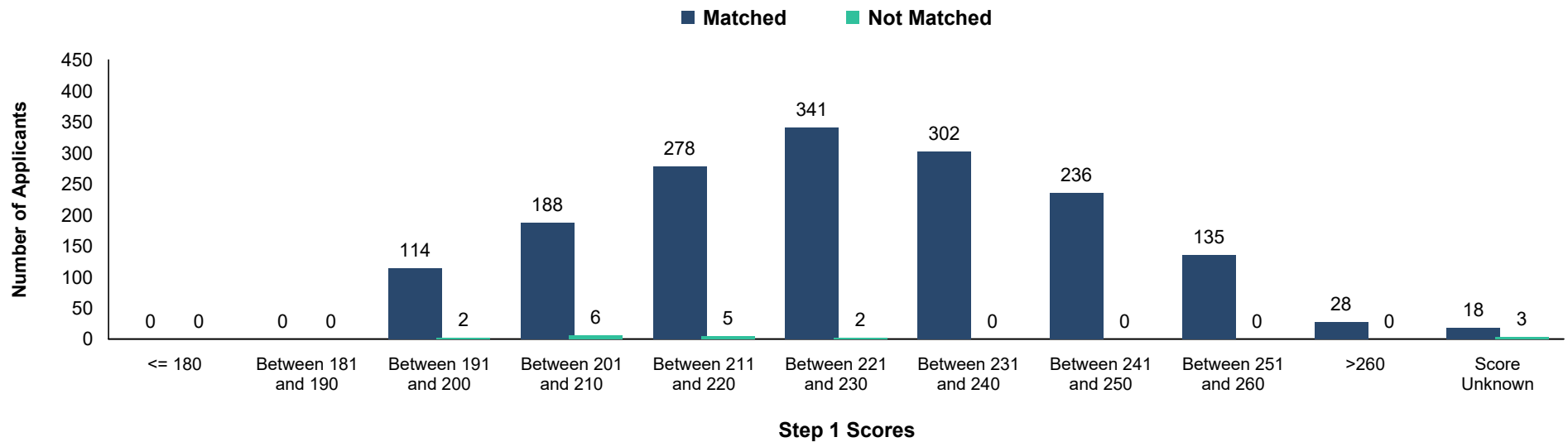
*Pediatrics*



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

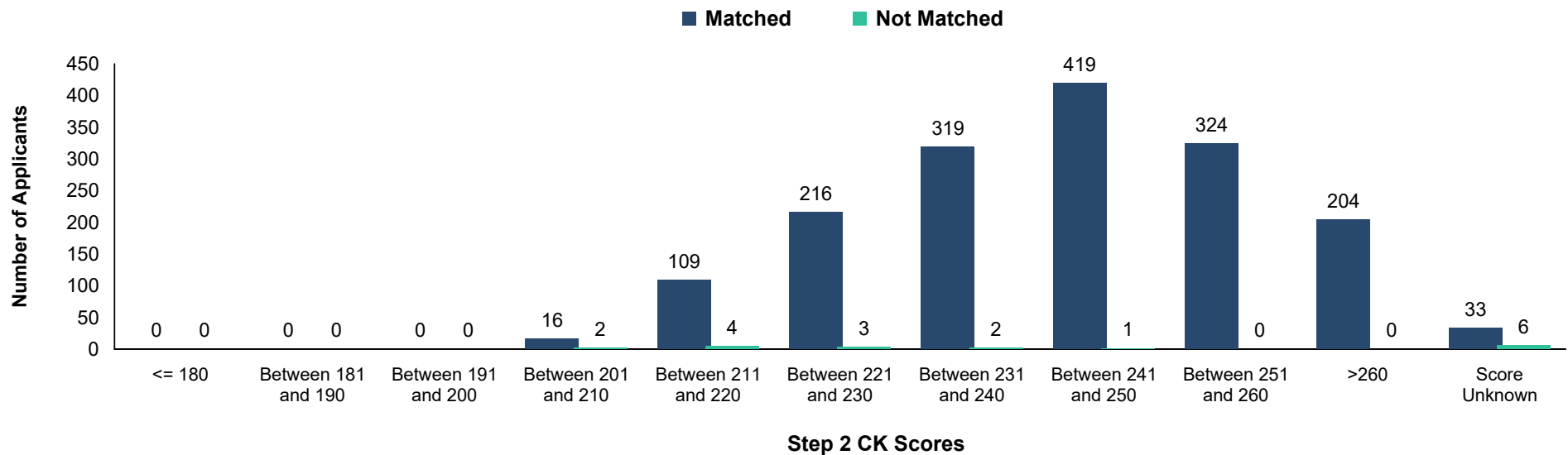
**Chart  
PD-3**

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



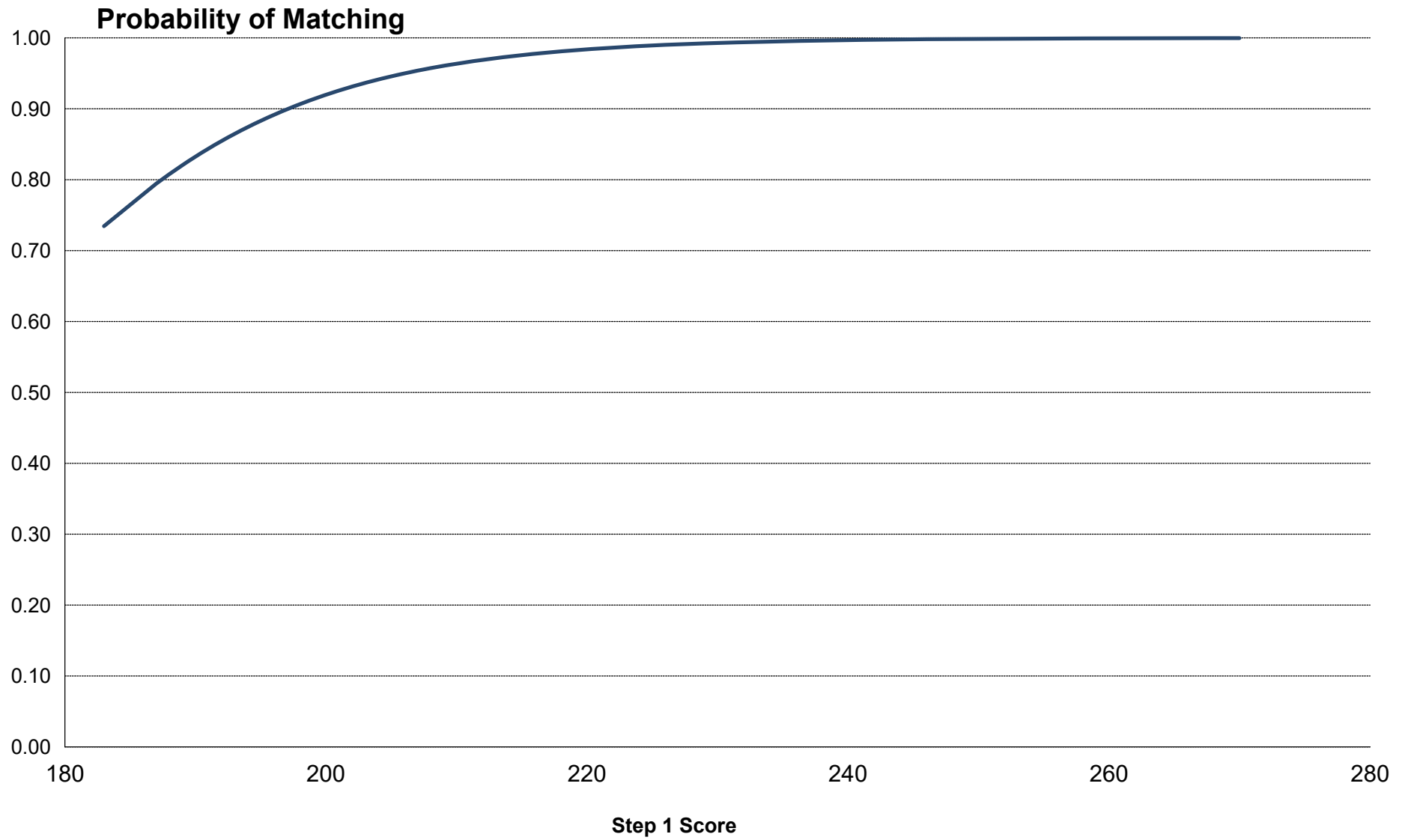
**Chart  
PD-4**

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



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

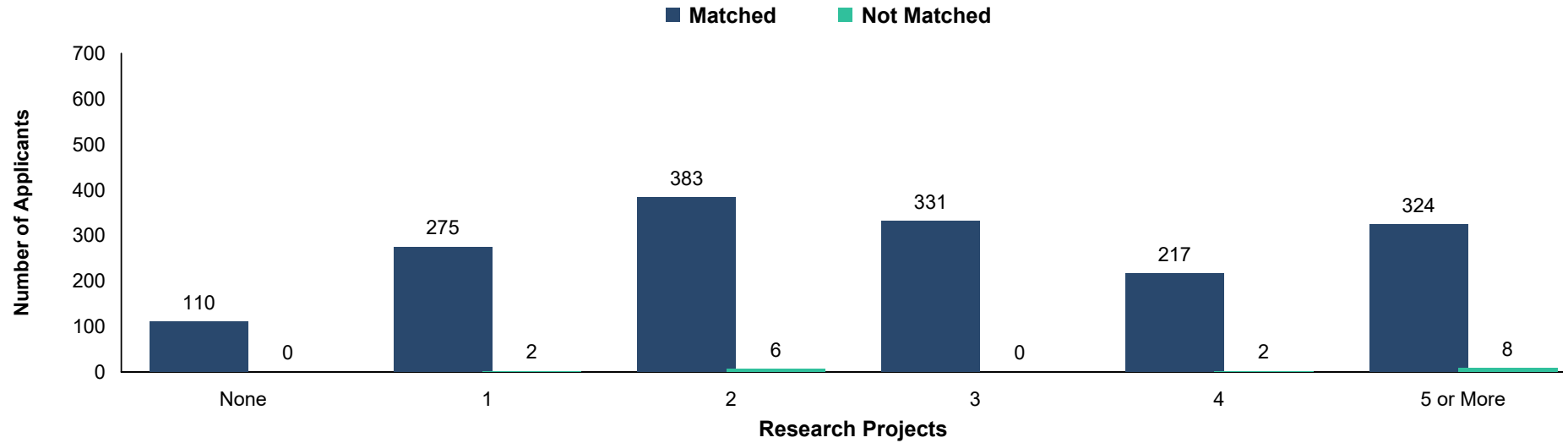
## *Pediatrics*



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

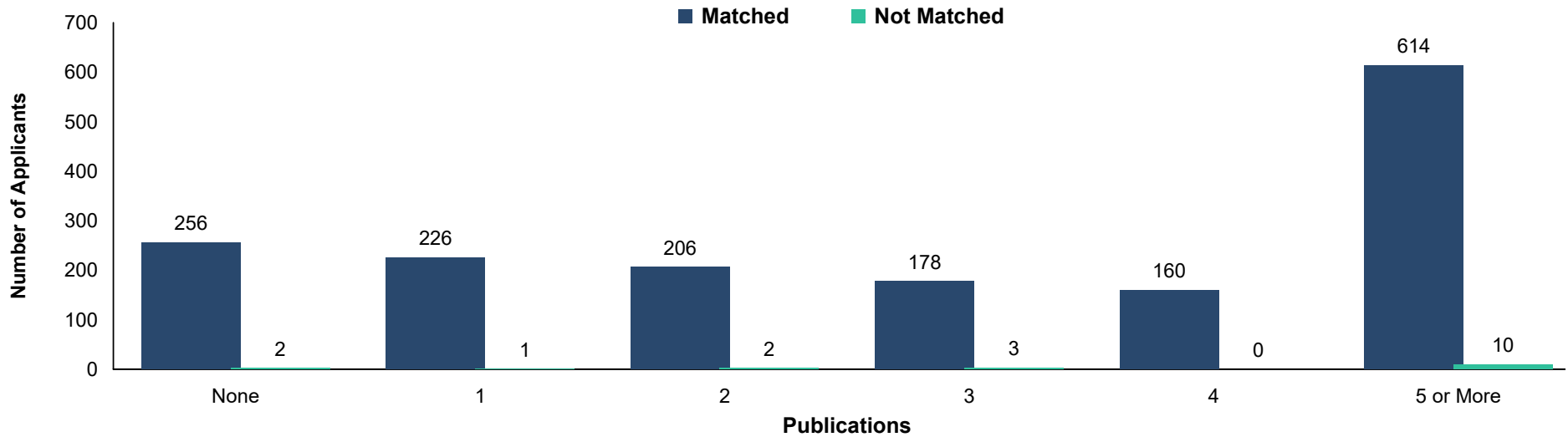
**Chart  
PD-5**

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



**Chart  
PD-6**

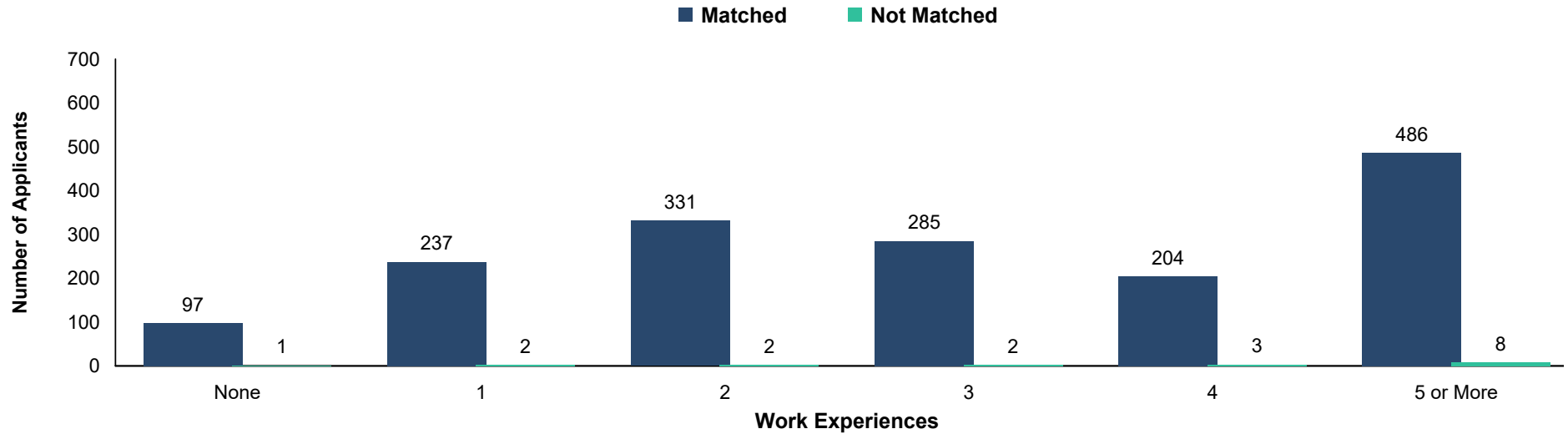
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Pediatrics***



Source: NRMP Data Warehouse

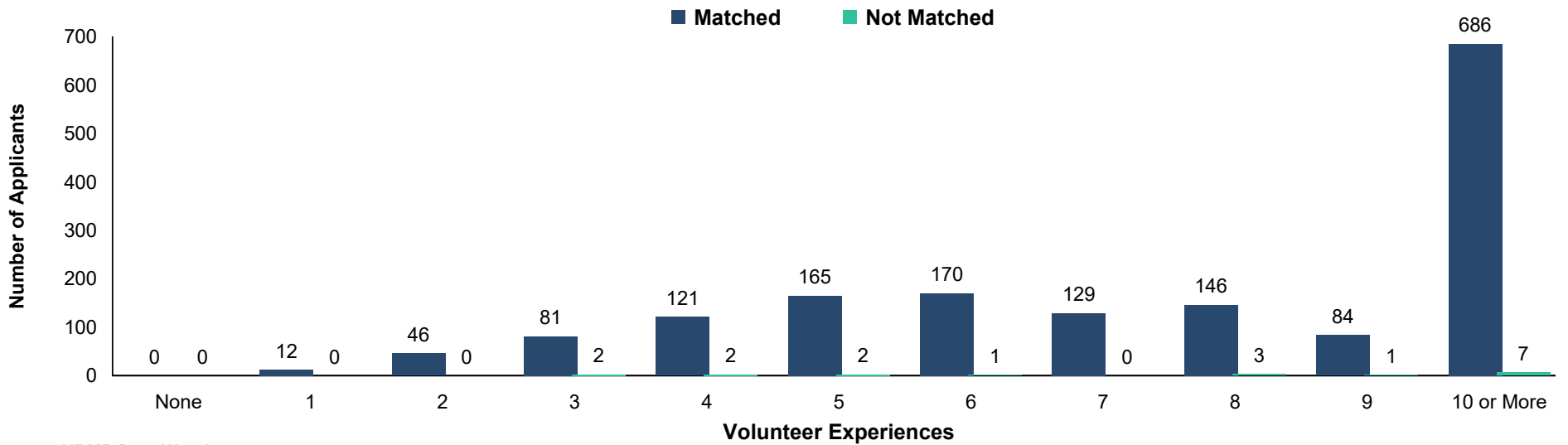
**Chart  
PD-7**

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



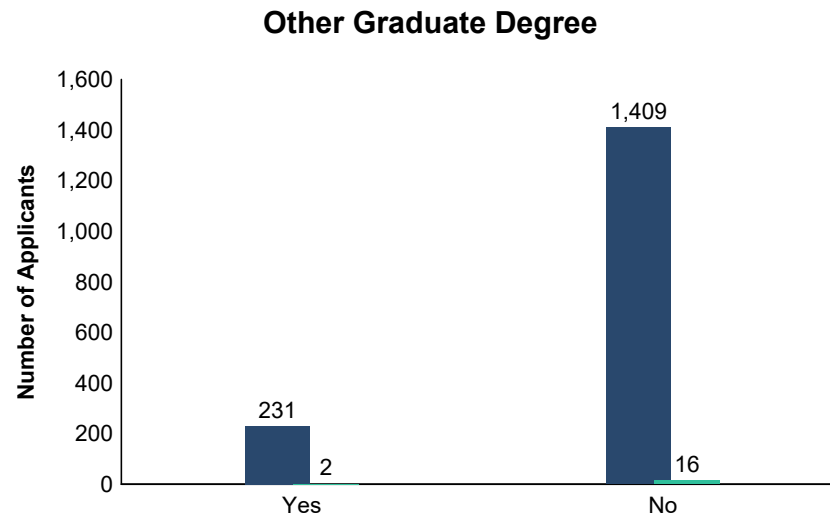
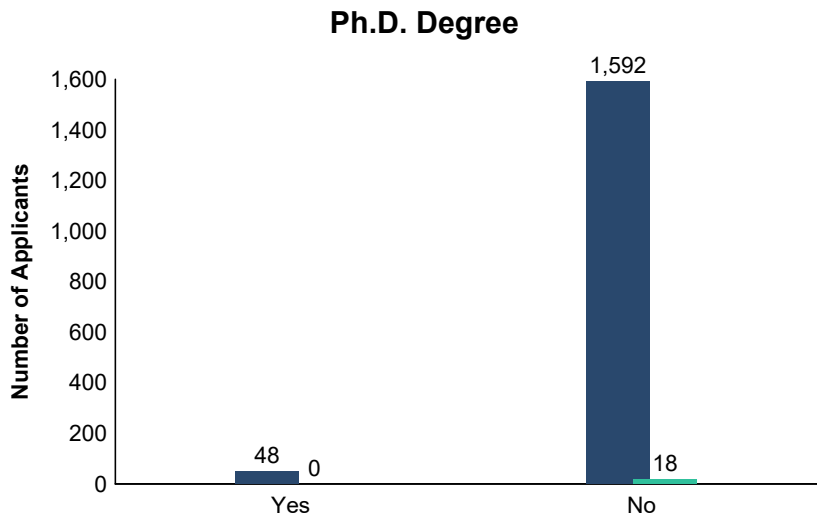
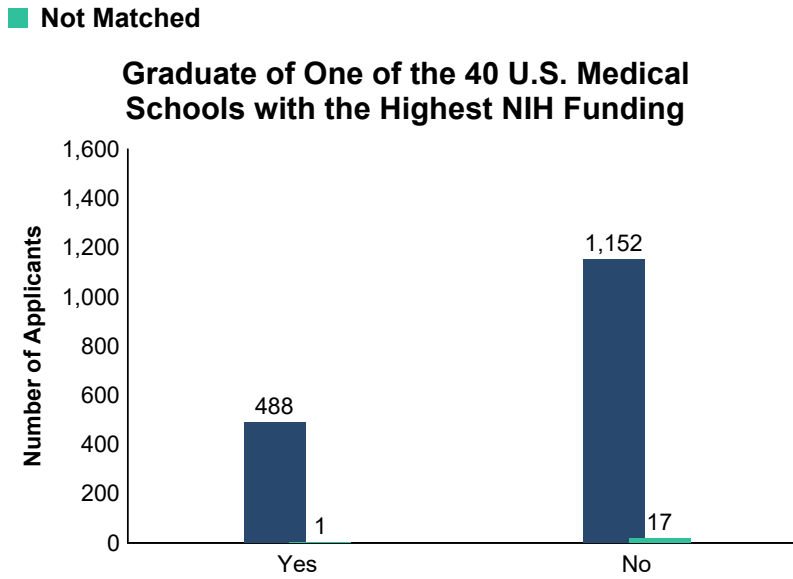
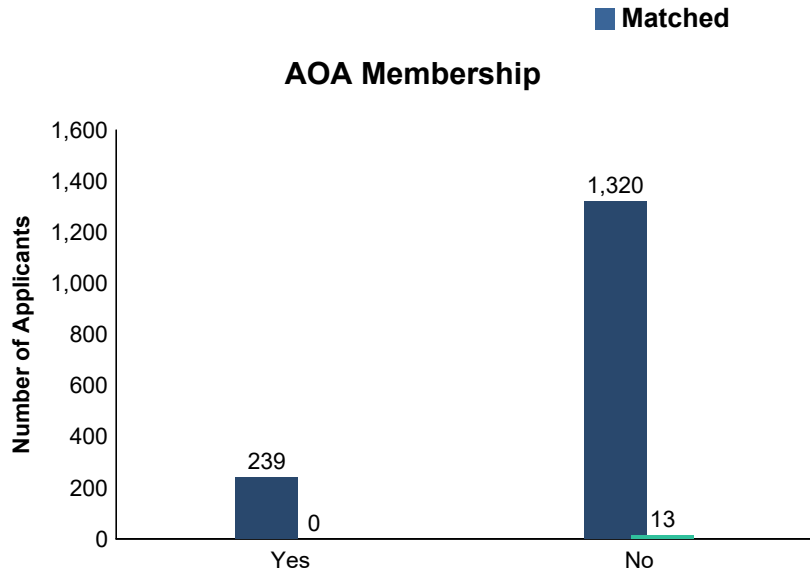
**Chart  
PD-8**

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



Source: NRMP Data Warehouse

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



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

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**PM** Physical Medicine and Rehabilitation



## Summary Statistics on U.S. Allopathic Seniors *Physical Medicine and Rehabilitation*

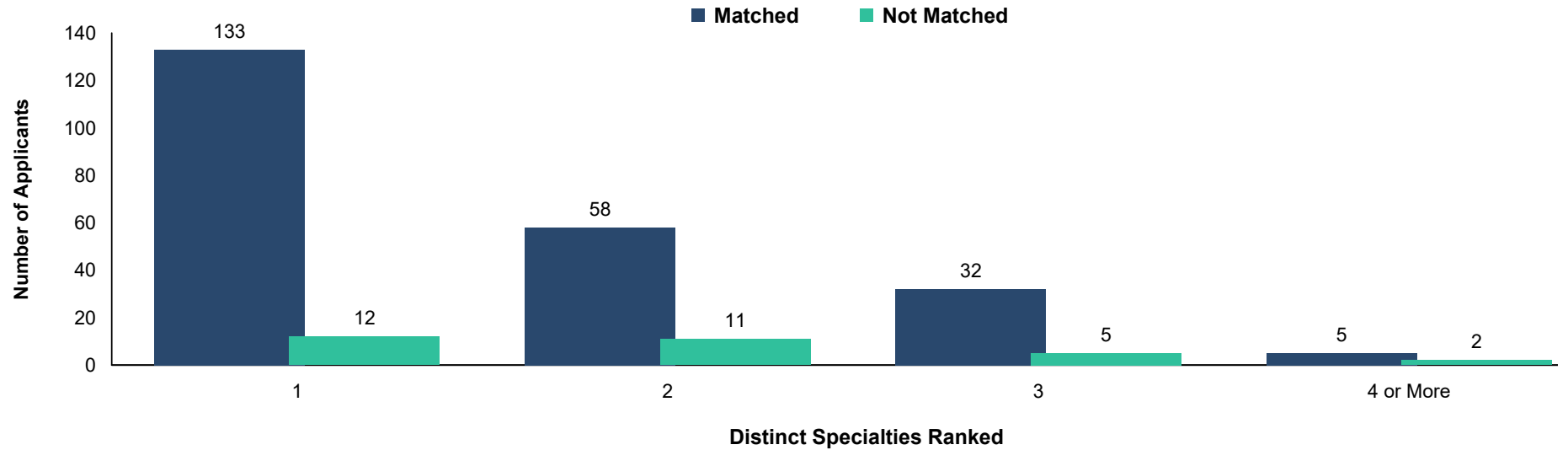
Measure	Matched (n=228)	Unmatched (n=31)
1. Mean number of contiguous ranks	13.1	6.4
2. Mean number of distinct specialties ranked	1.6	2.0
3. Mean USMLE Step 1 score	225	215
4. Mean USMLE Step 2 score	239	229
5. Mean number of research experiences	2.9	2.9
6. Mean number of abstracts, presentations, and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

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

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

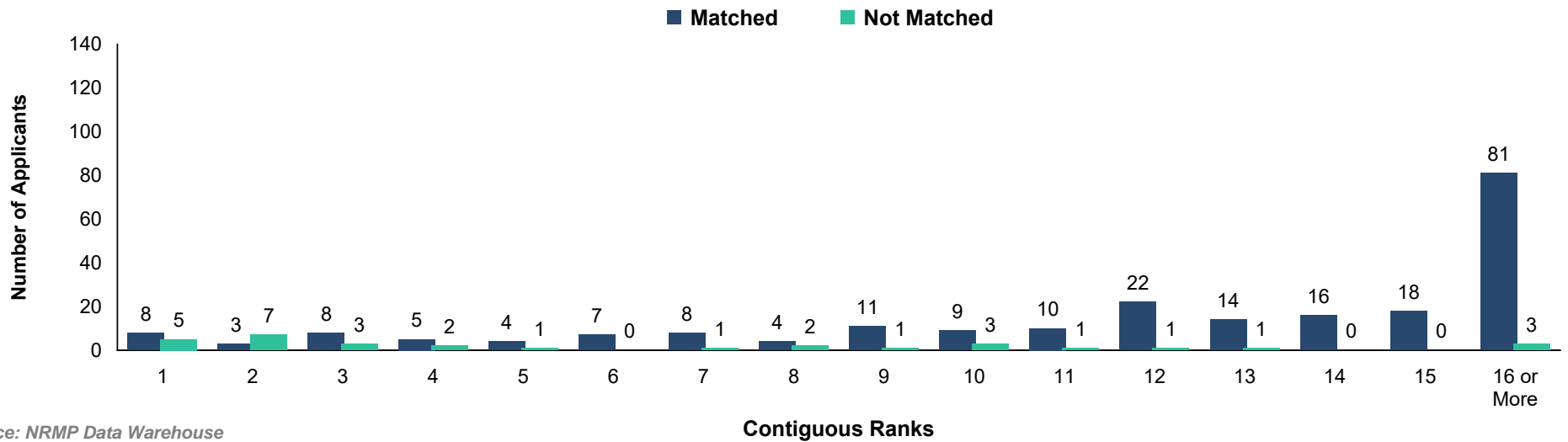
**Chart  
PM-1**

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



**Chart  
PM-2**

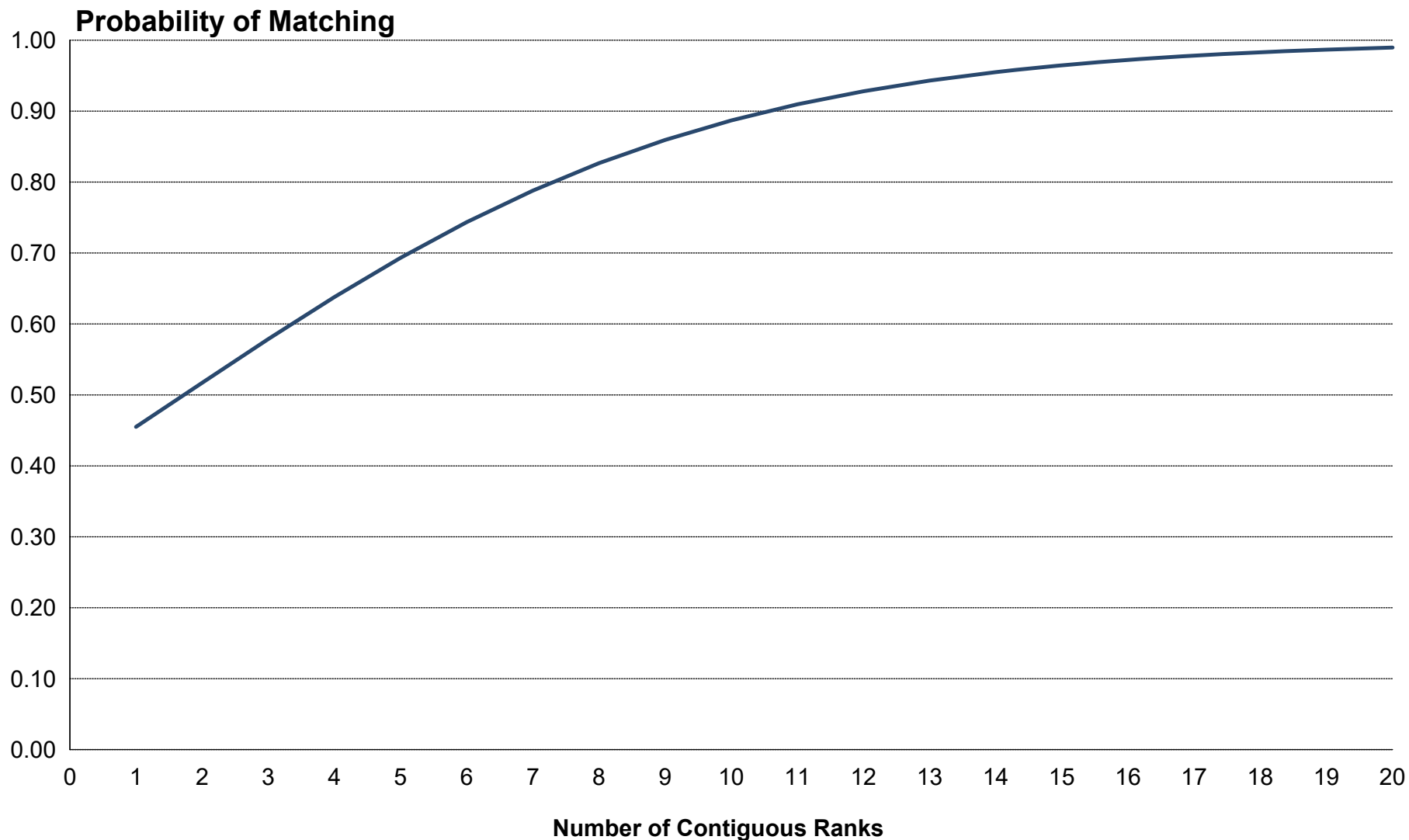
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Physical Medicine and Rehabilitation***



Source: NRMP Data Warehouse

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

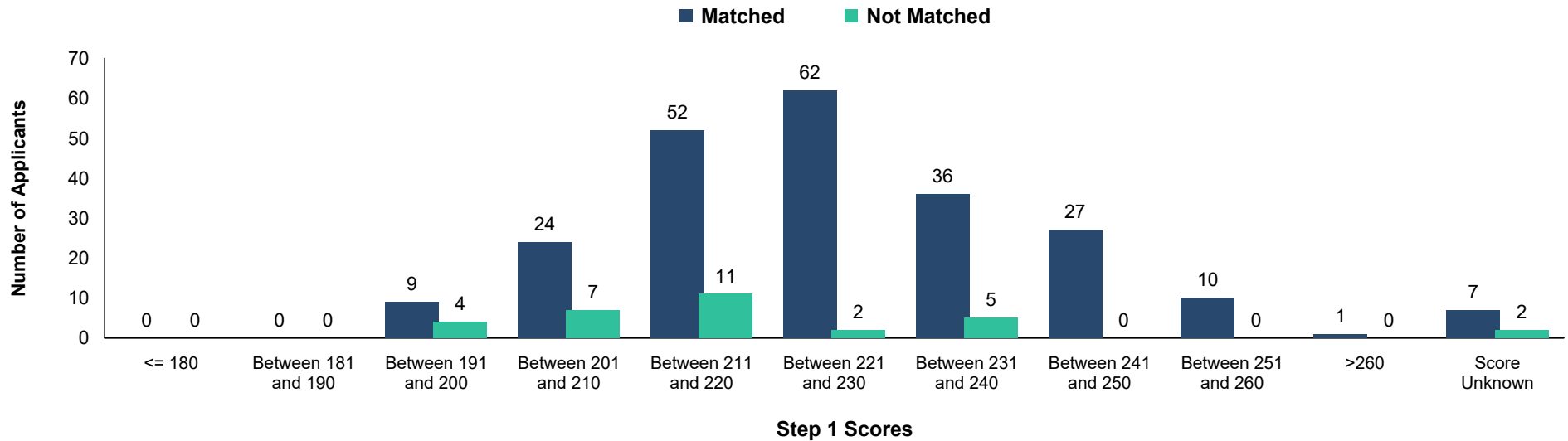
*Physical Medicine and Rehabilitation*



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

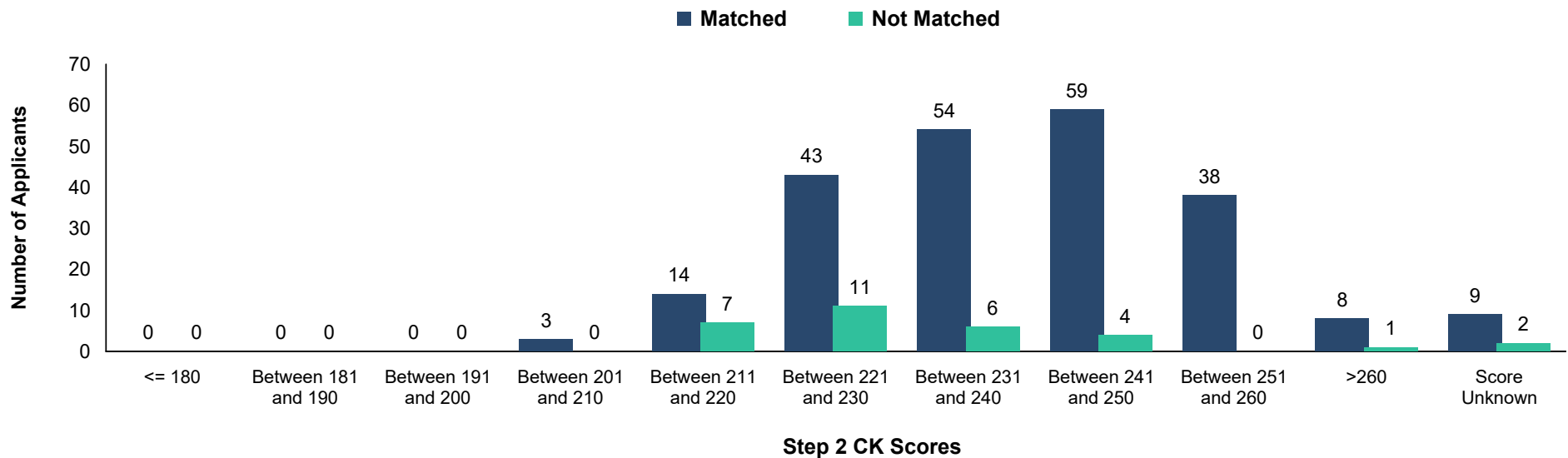
**Chart  
PM-3**

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



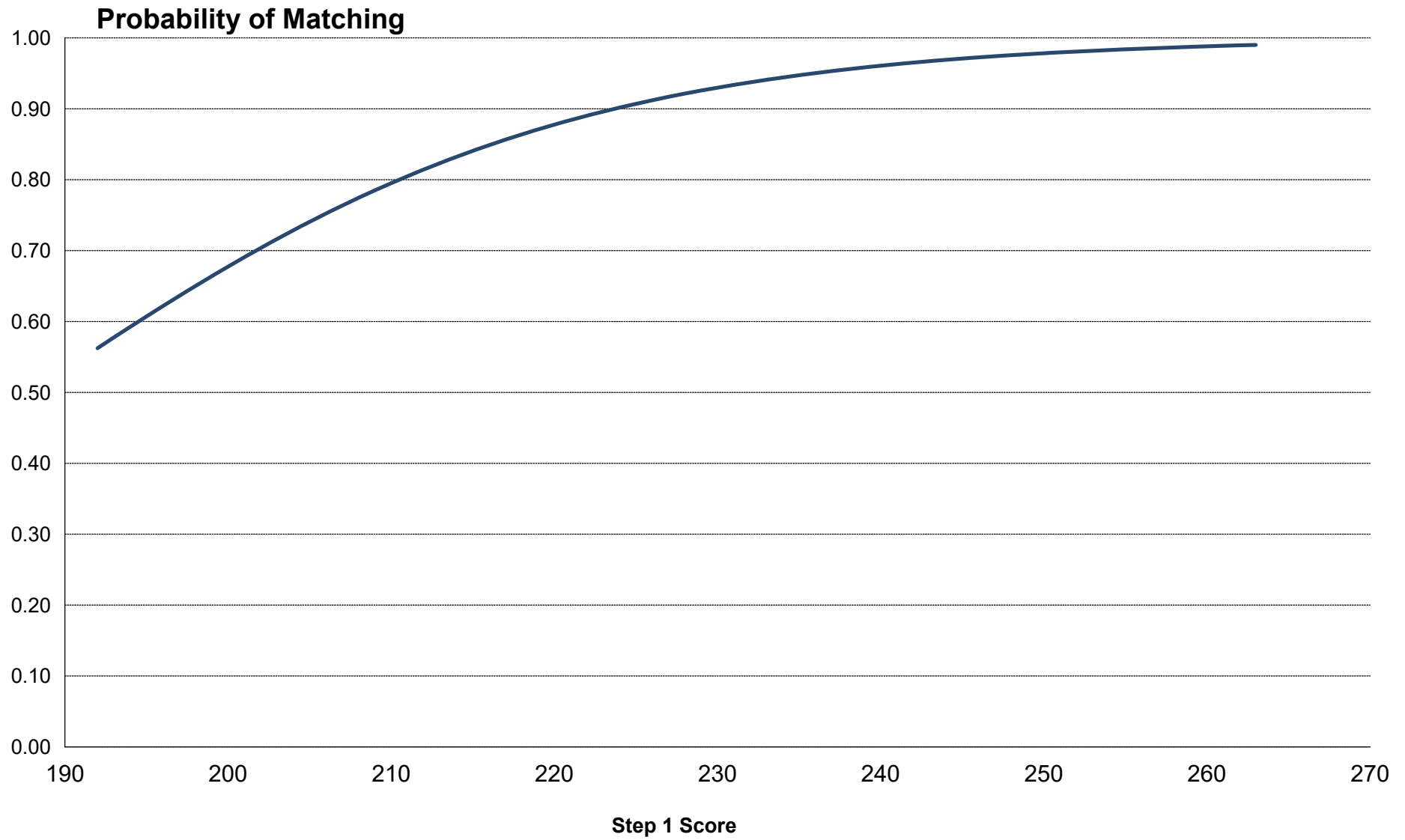
**Chart  
PM-4**

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



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

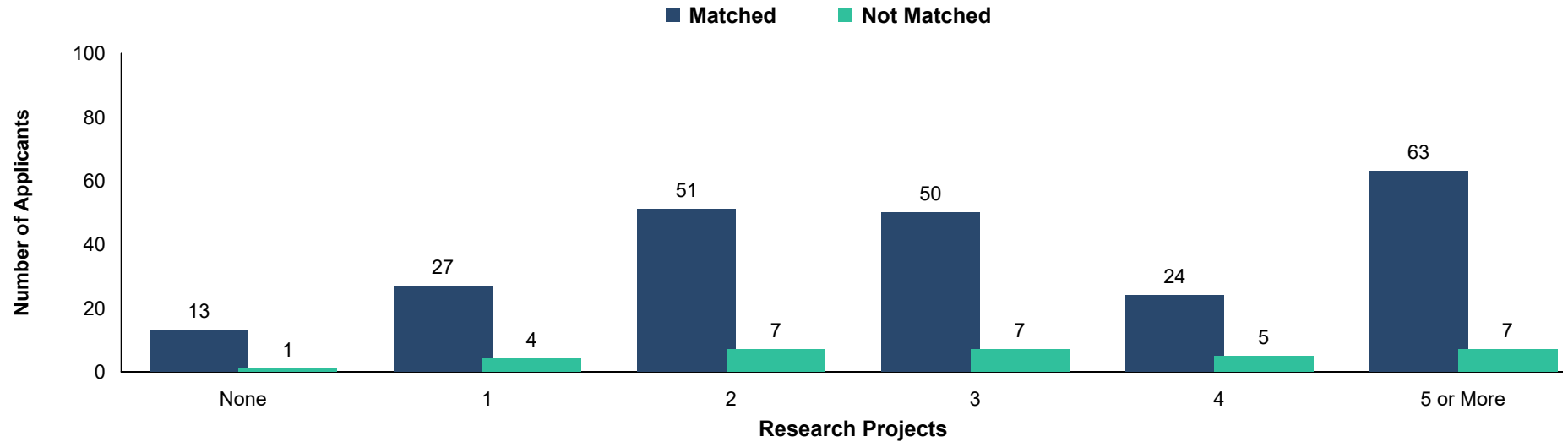
## *Physical Medicine and Rehabilitation*



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

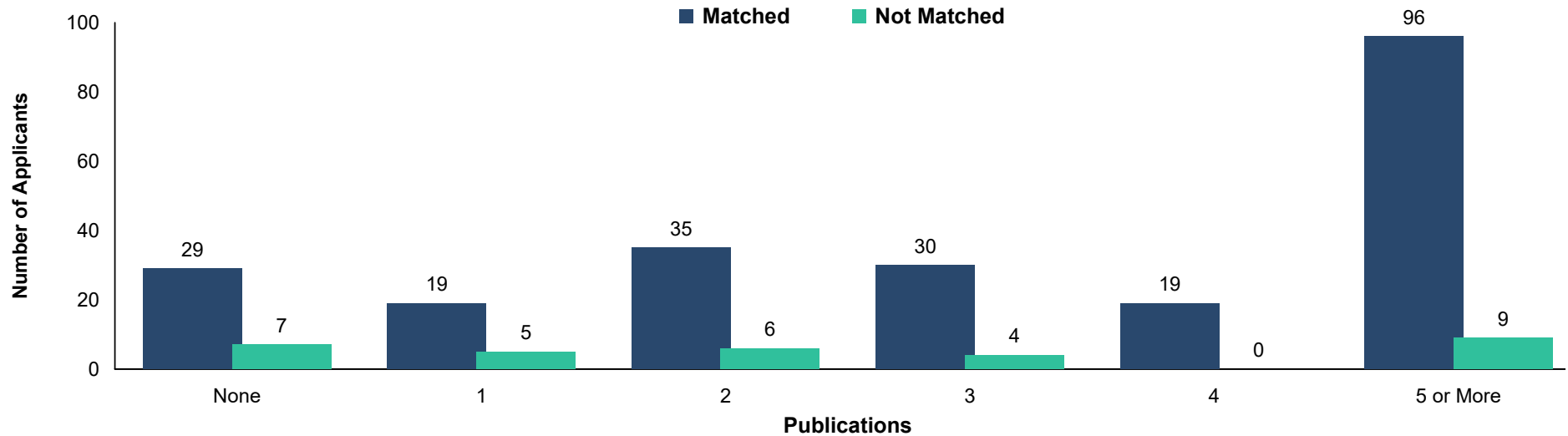
**Chart  
PM-5**

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



**Chart  
PM-6**

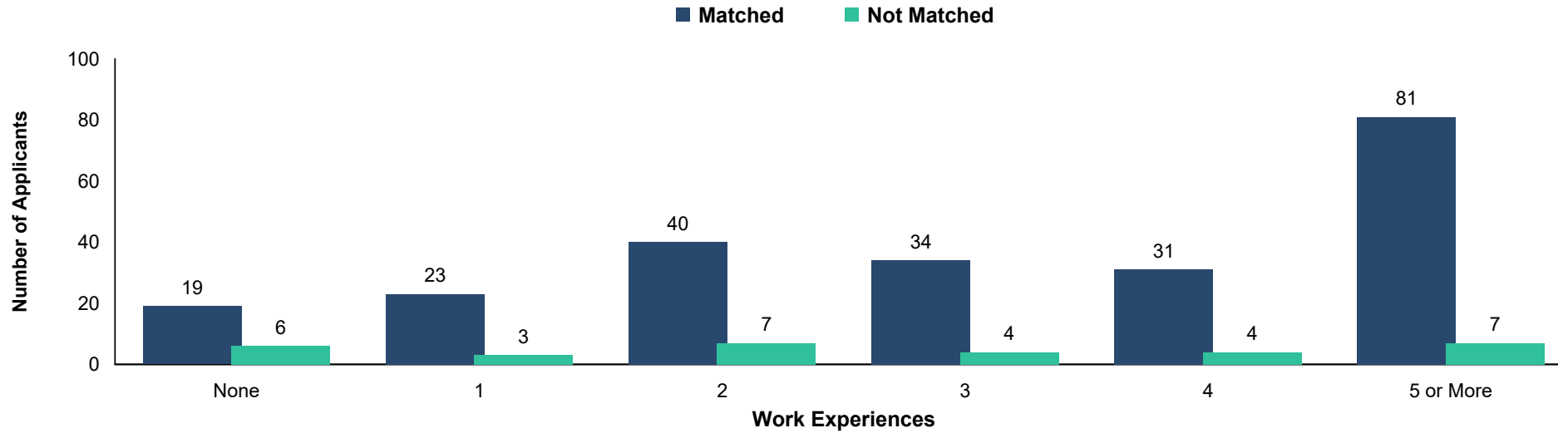
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors**  
*Physical Medicine and Rehabilitation*



Source: NRMP Data Warehouse

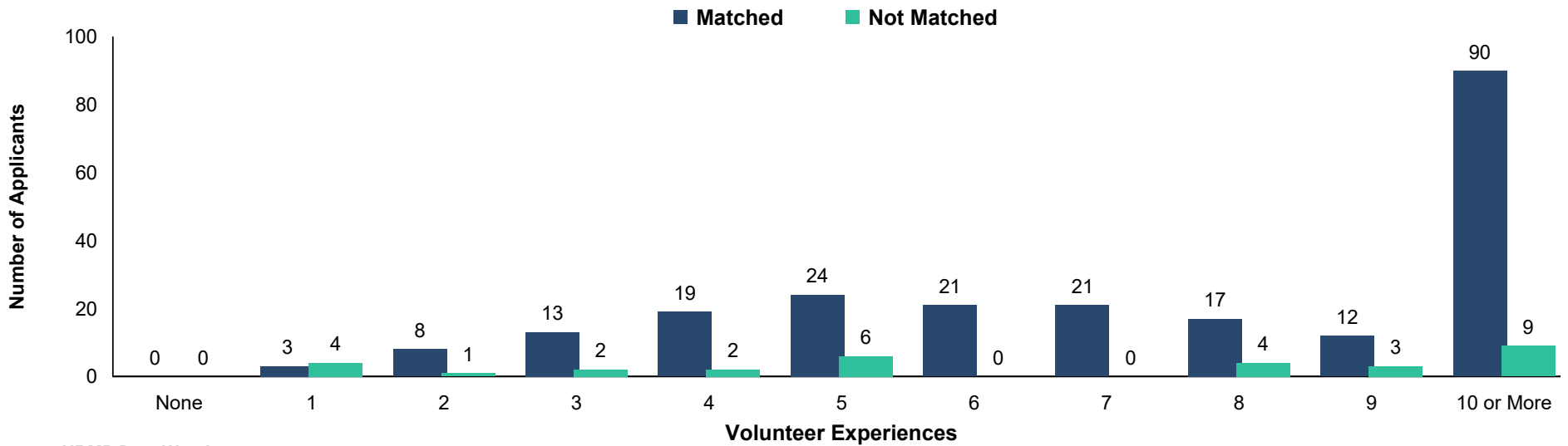
**Chart  
PM-7**

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



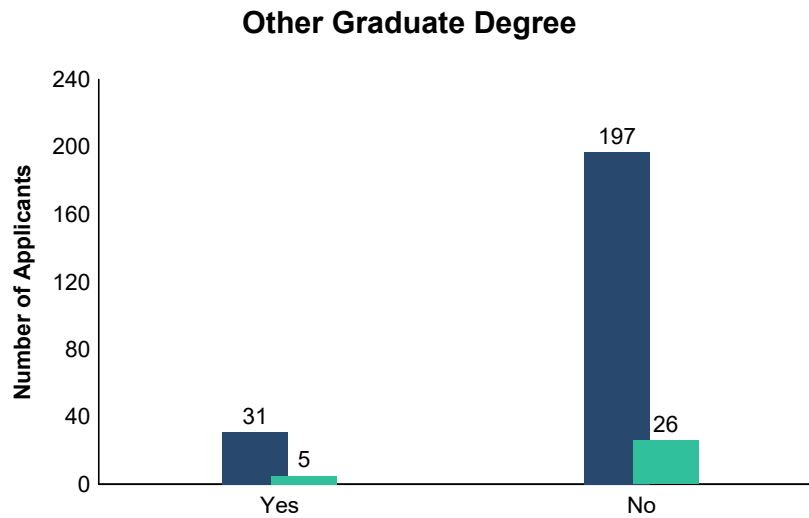
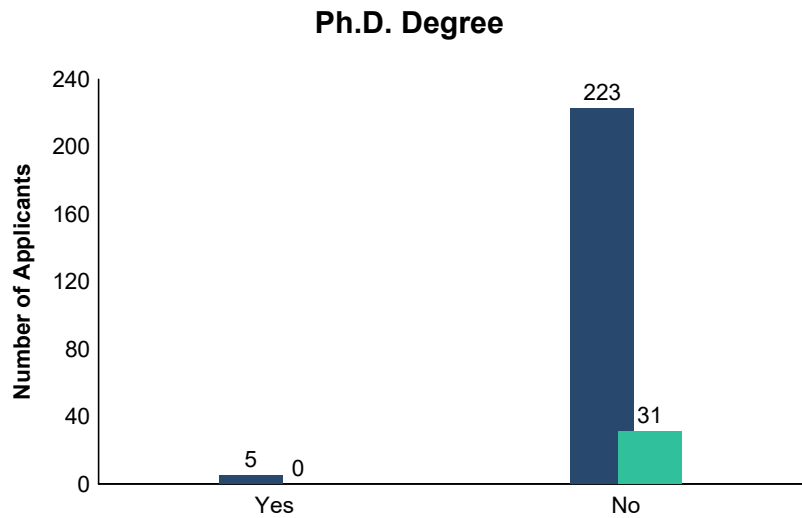
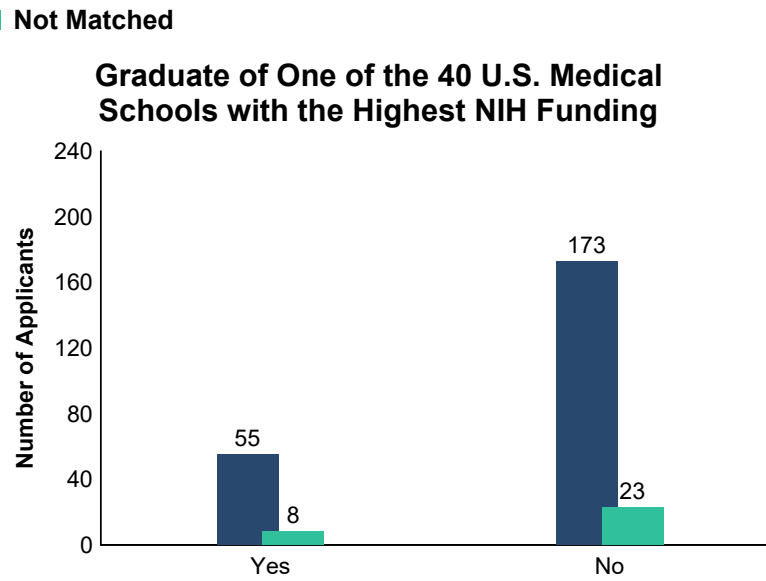
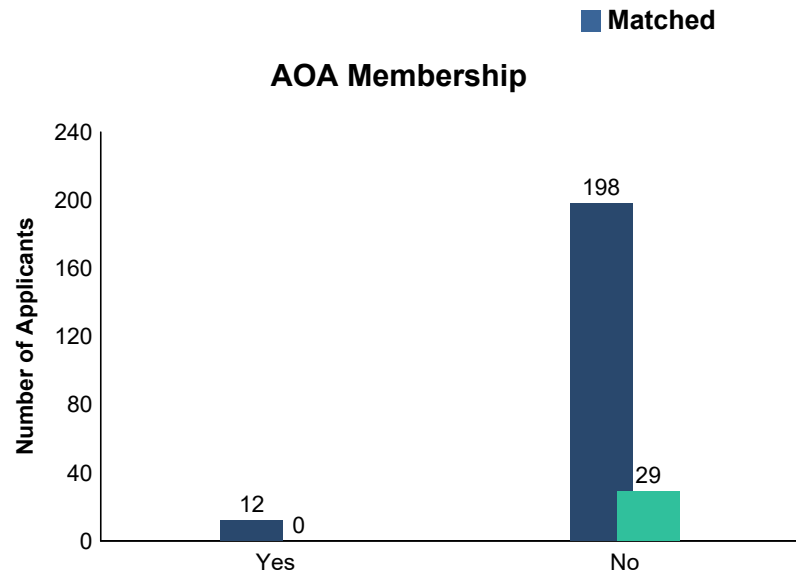
**Chart  
PM-8**

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



Source: NRMP Data Warehouse

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



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



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**PS** Plastic Surgery

## Summary Statistics on U.S. Allopathic Seniors *Plastic Surgery*

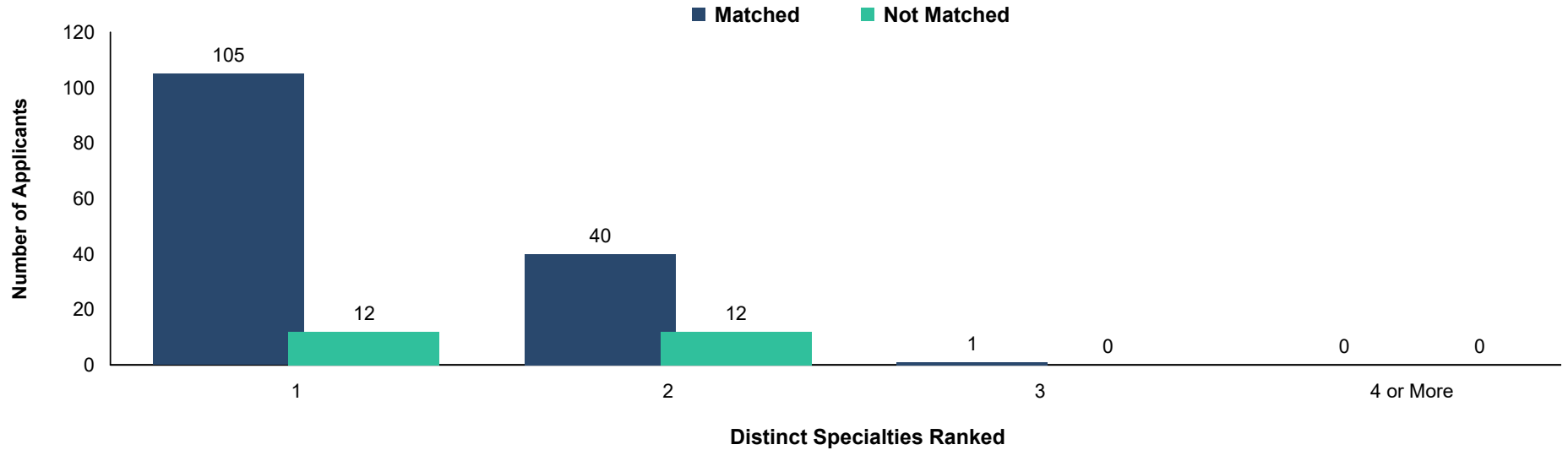
Measure	Matched (n=146)	Unmatched (n=24)
1. Mean number of contiguous ranks	13.7	6.8
2. Mean number of distinct specialties ranked	1.3	1.5
3. Mean USMLE Step 1 score	249	239
4. Mean USMLE Step 2 score	254	248
5. Mean number of research experiences	5.4	5.1
6. Mean number of abstracts, presentations, and publications	14.2	14.9
7. Mean number of work experiences	3.5	3.8
8. Mean number of volunteer experiences	7.5	7.3
9. Percentage who are AOA members	44.5	12.5
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	40.4	29.2
11. Percentage who have Ph.D. degree	2.9	4.2
12. Percentage who have another graduate degree	18.1	17.4

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

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

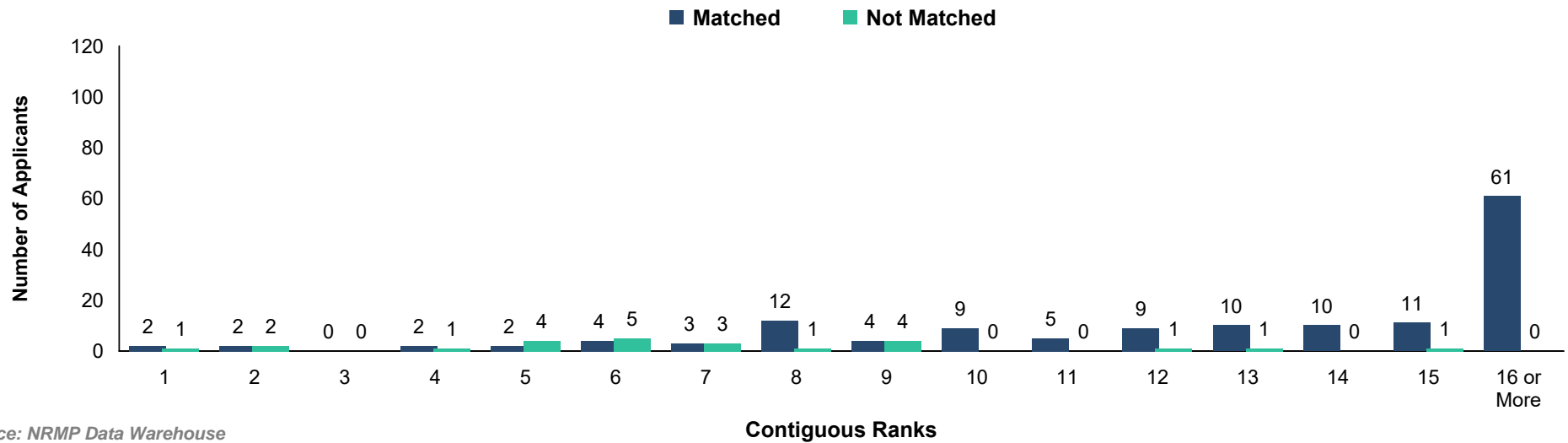
**Chart  
PS-1**

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



**Chart  
PS-2**

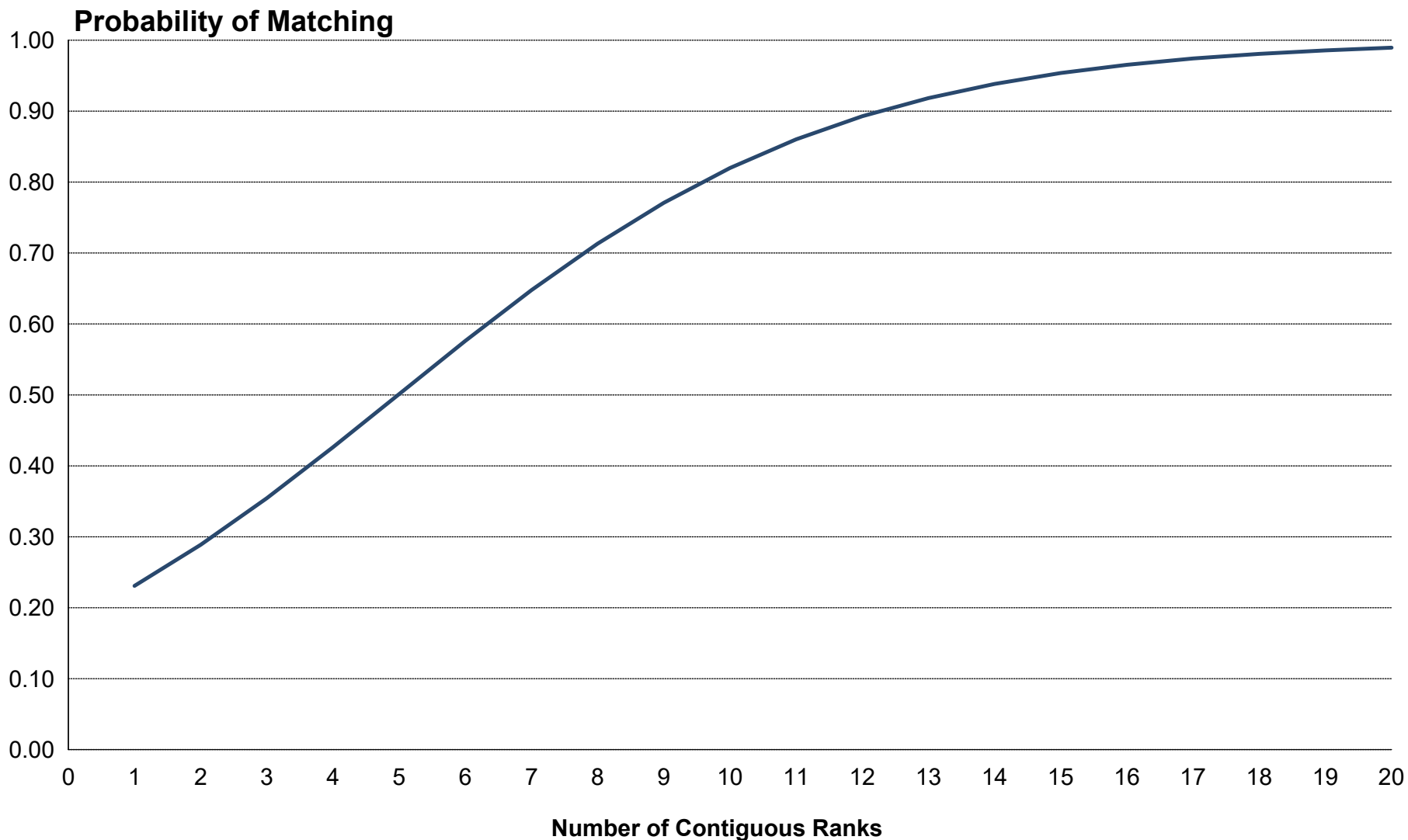
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Plastic Surgery**



Source: NRMP Data Warehouse

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

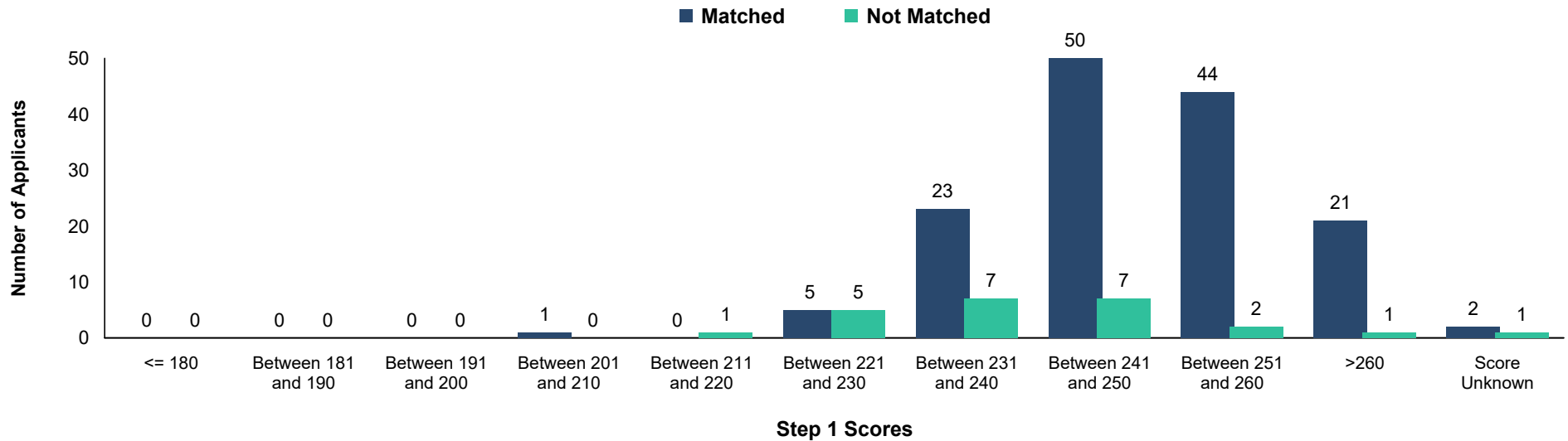
*Plastic Surgery*



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

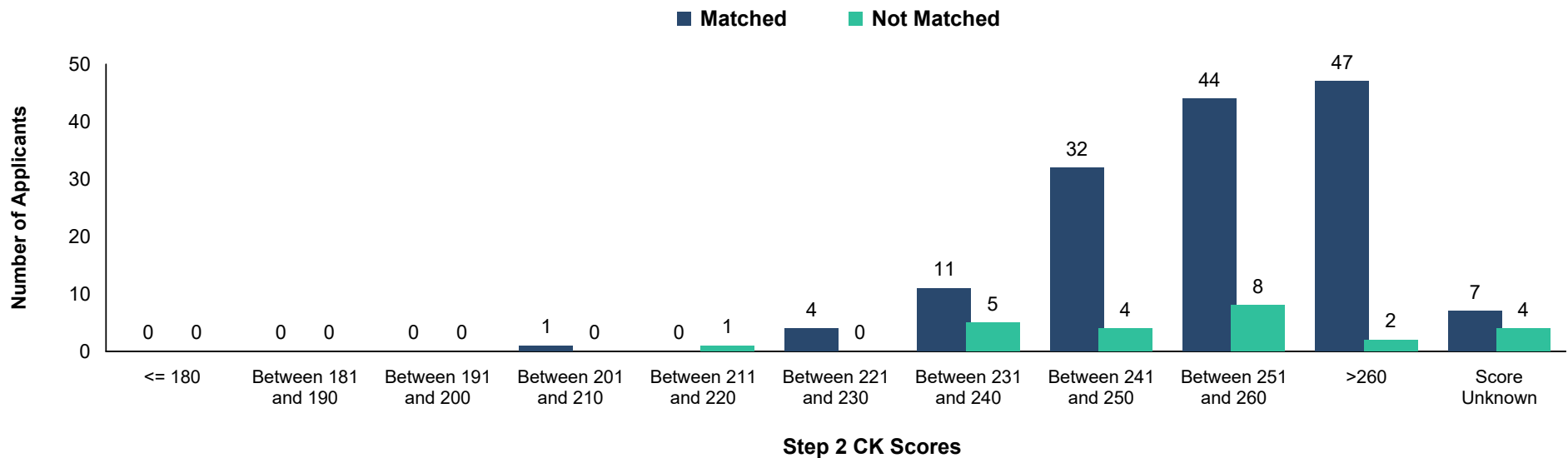
**Chart  
PS-3**

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

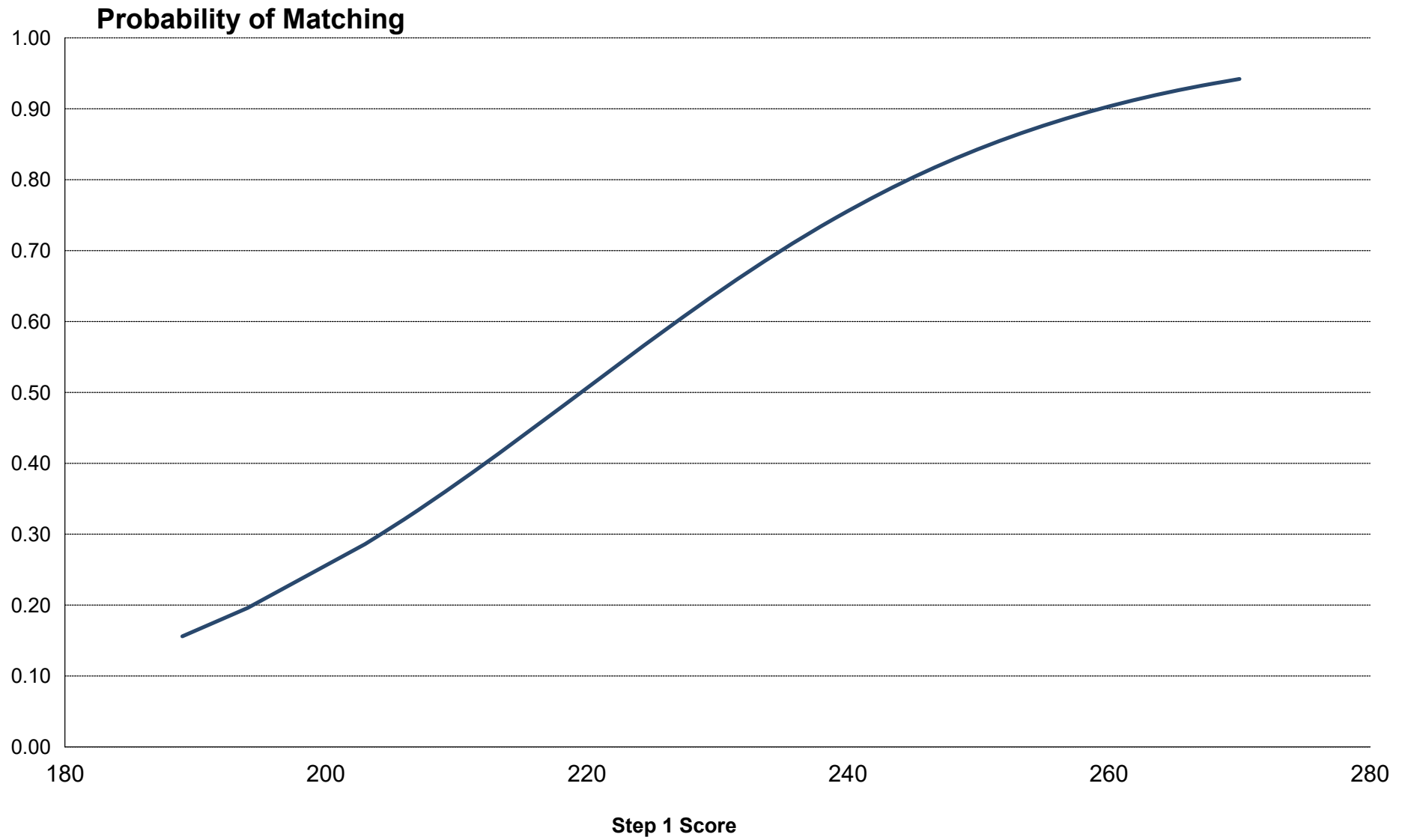


**Chart  
PS-4**

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



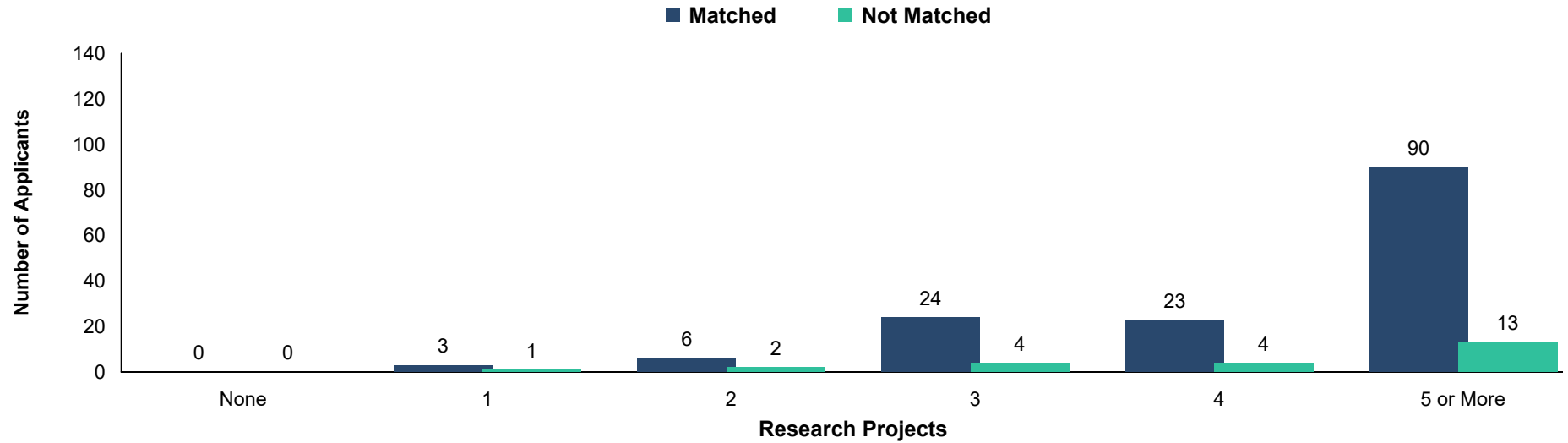
**Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score**  
*Plastic Surgery*



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

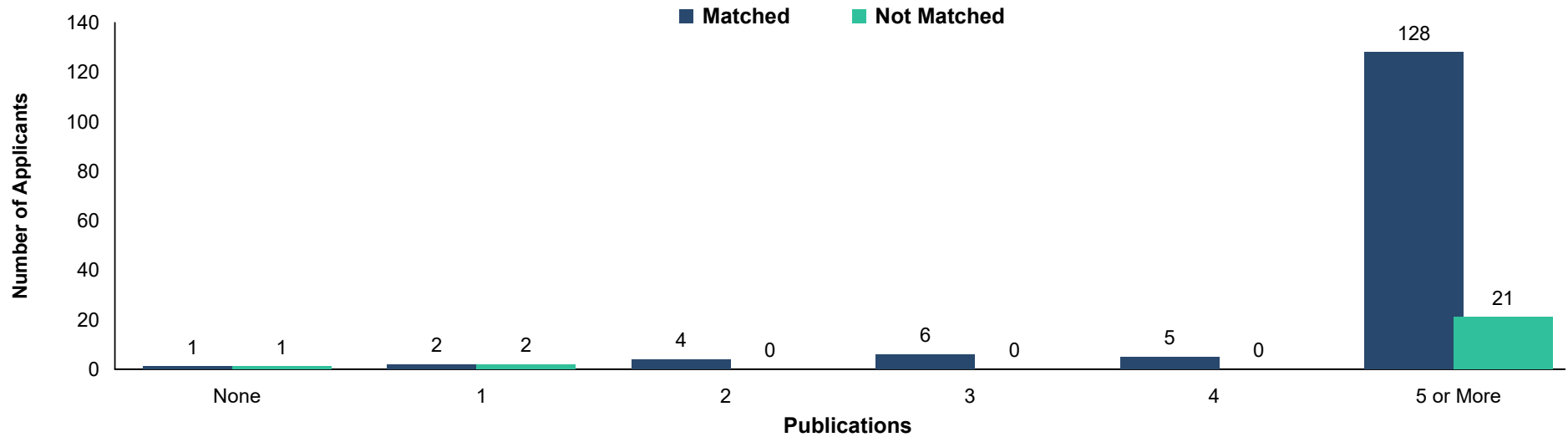
**Chart  
PS-5**

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



**Chart  
PS-6**

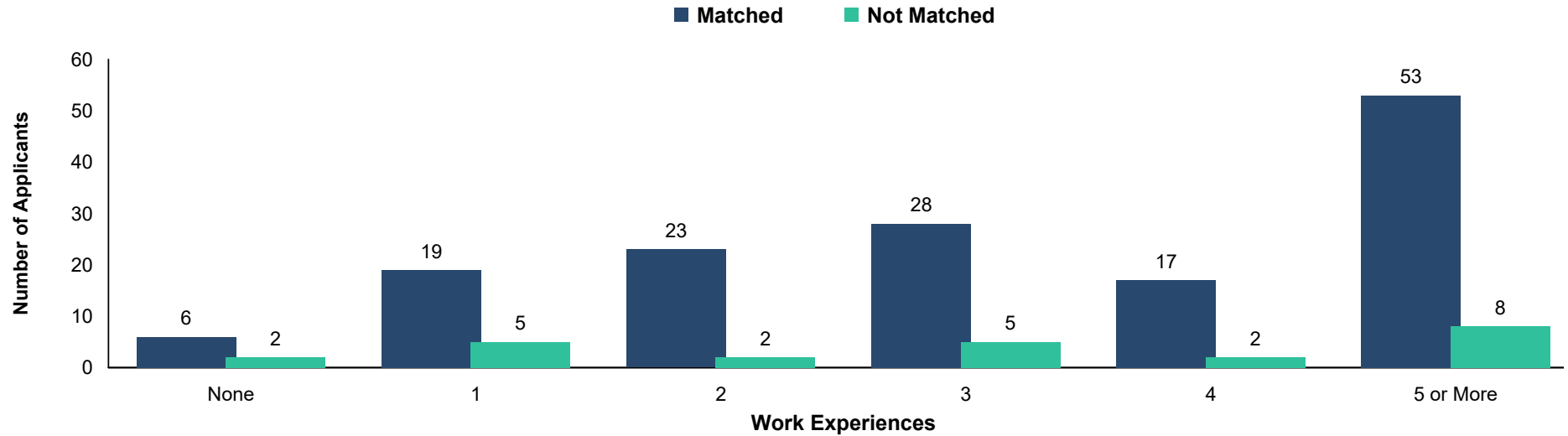
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Plastic Surgery***



Source: NRMP Data Warehouse

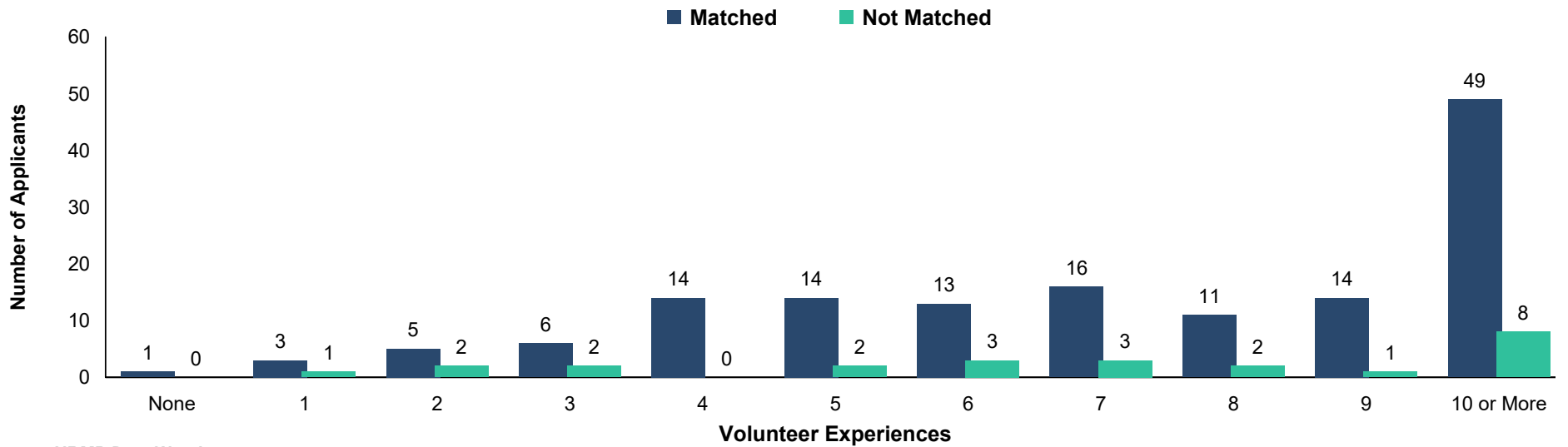
**Chart  
PS-7**

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



**Chart  
PS-8**

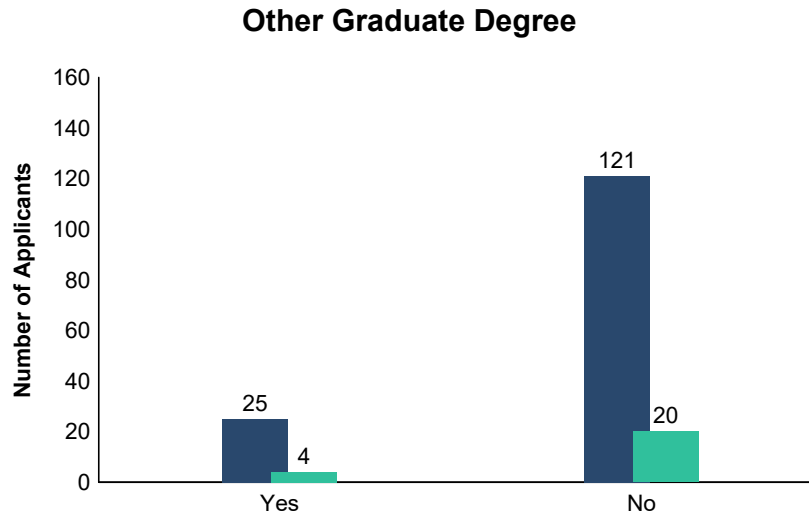
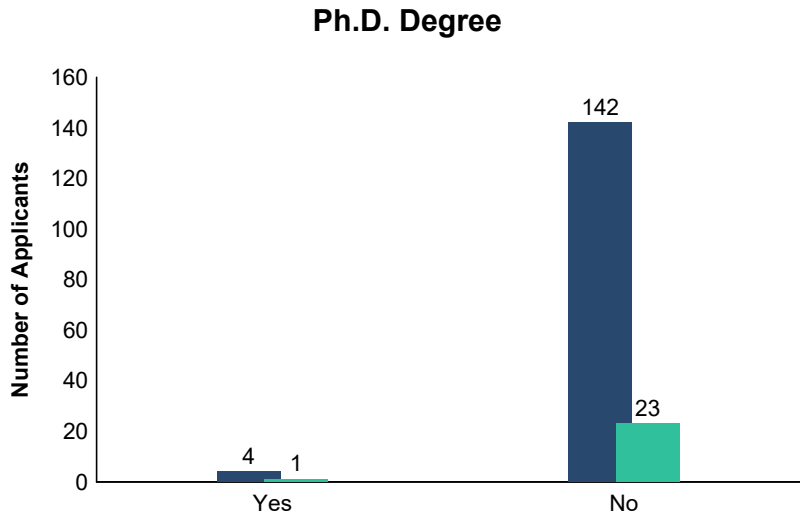
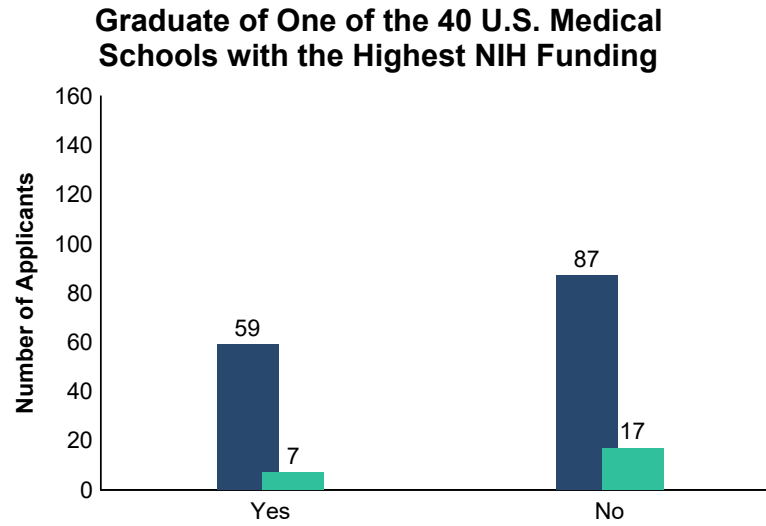
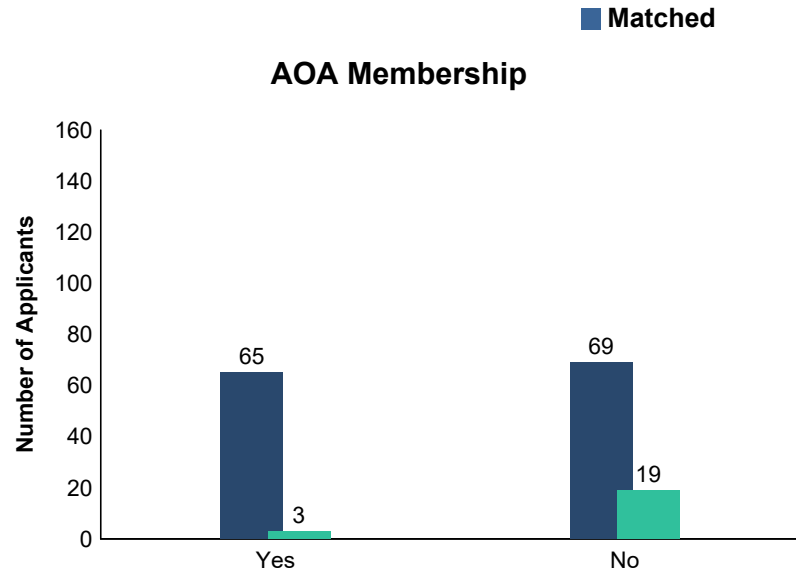
**Number of Volunteer Experiences of U.S. Allopathic Seniors  
Plastic Surgery**



Source: NRMP Data Warehouse



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



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

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**P** Psychiatry

**Table  
P-1****Summary Statistics on U.S. Allopathic Seniors  
Psychiatry**

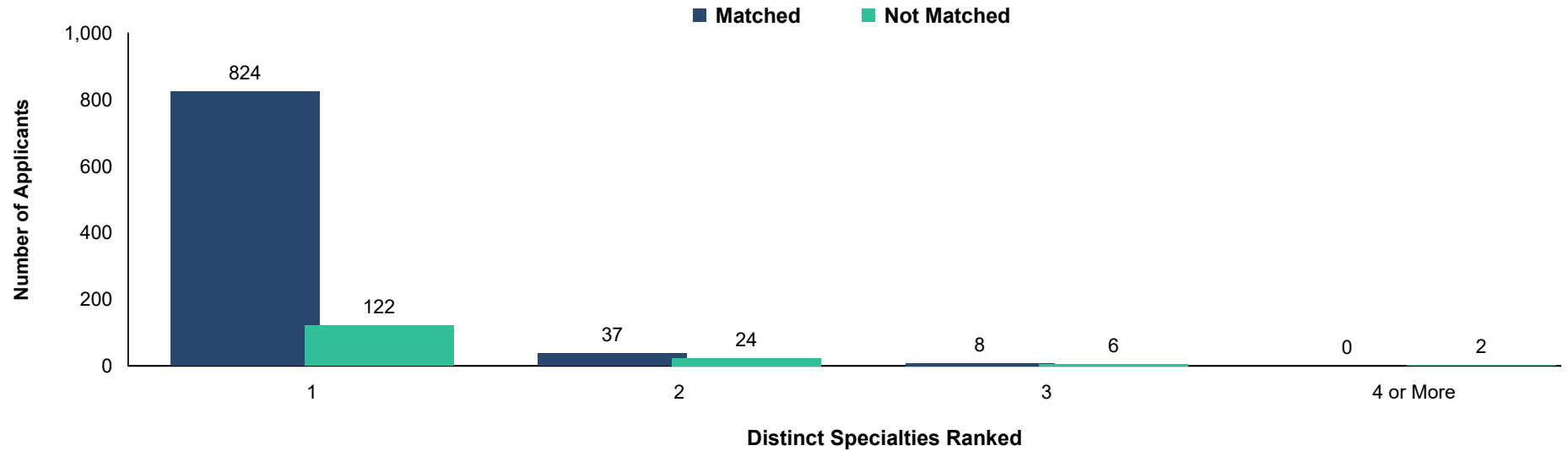
Measure	Matched (n=869)	Unmatched (n=154)
1. Mean number of contiguous ranks	10.0	5.8
2. Mean number of distinct specialties ranked	1.1	1.3
3. Mean USMLE Step 1 score	226	215
4. Mean USMLE Step 2 score	239	229
5. Mean number of research experiences	2.8	2.7
6. Mean number of abstracts, presentations, and publications	4.8	3.7
7. Mean number of work experiences	3.3	3.1
8. Mean number of volunteer experiences	7.0	6.2
9. Percentage who are AOA members	6.8	0.6
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	34.8	22.1
11. Percentage who have Ph.D. degree	5.4	4.3
12. Percentage who have another graduate degree	18.1	18.7

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

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

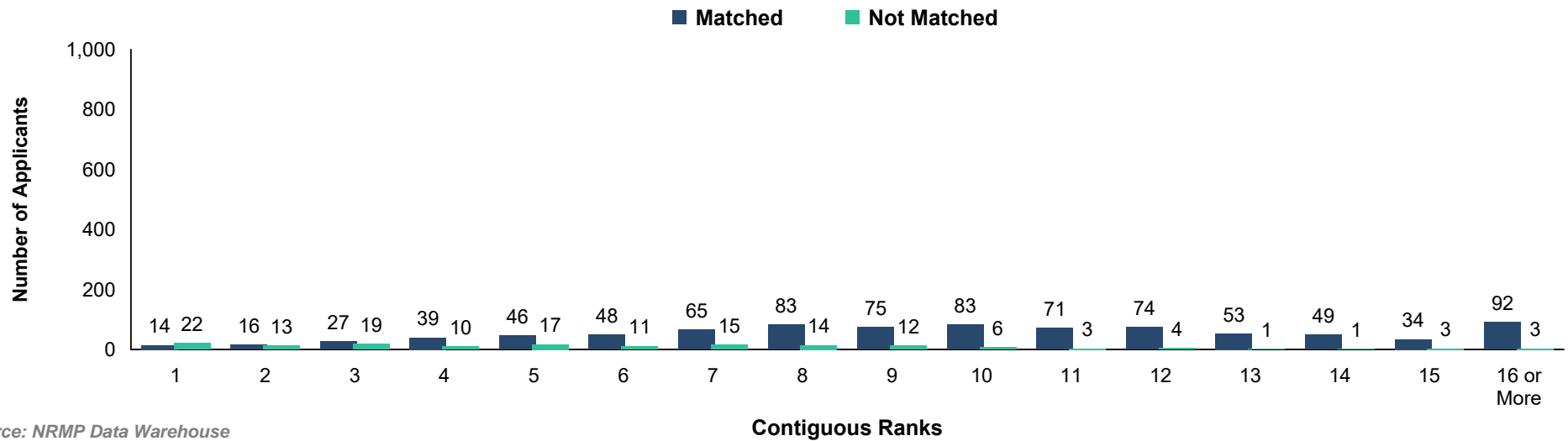
**Chart P-1**

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



**Chart P-2**

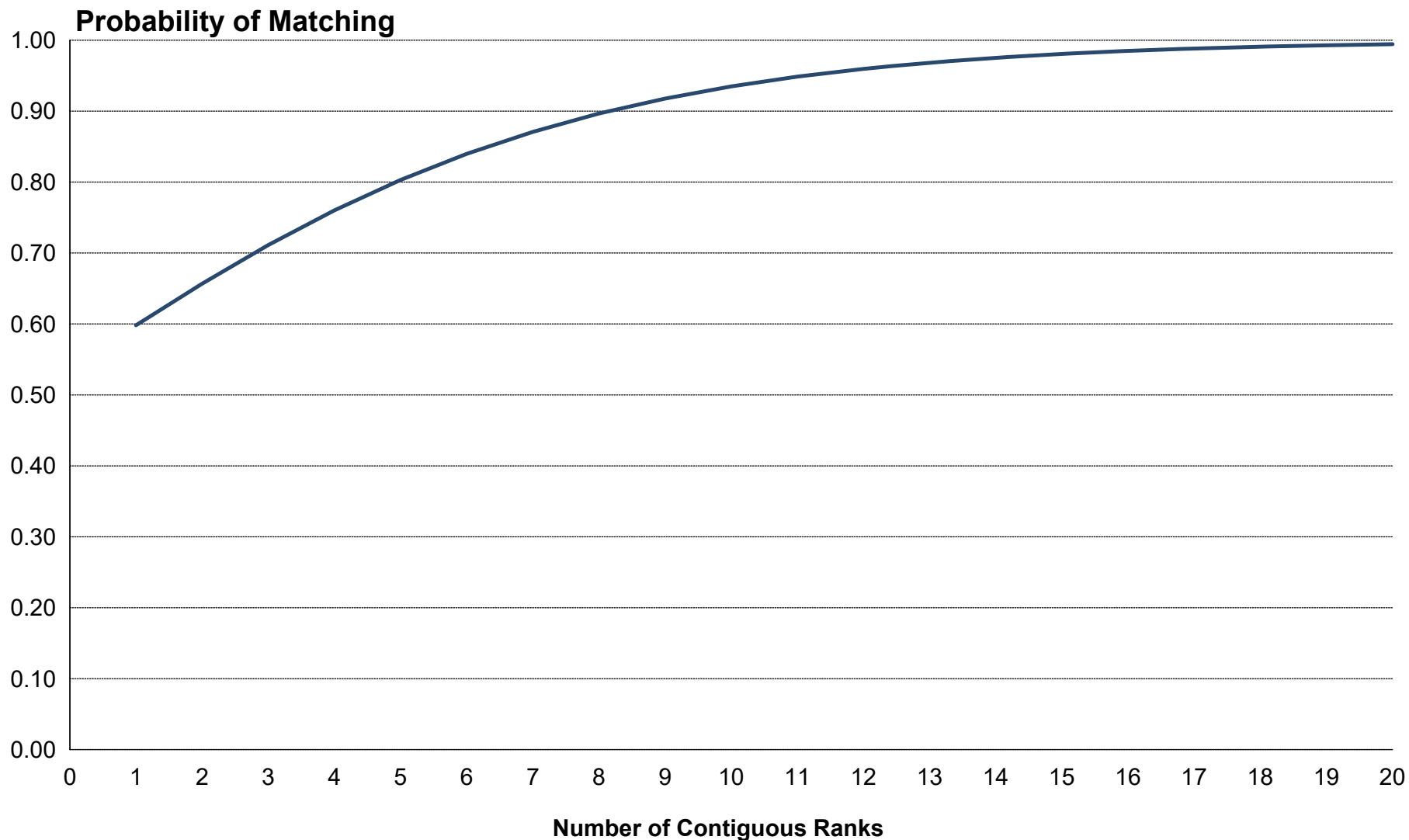
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
Psychiatry**



Source: NRMP Data Warehouse

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

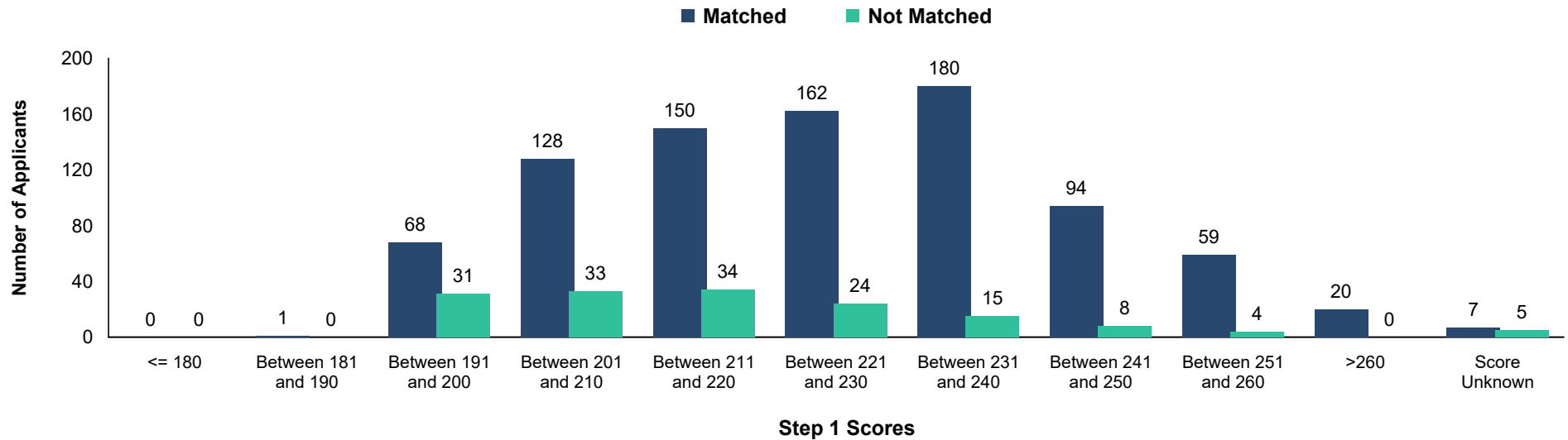
*Psychiatry*



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

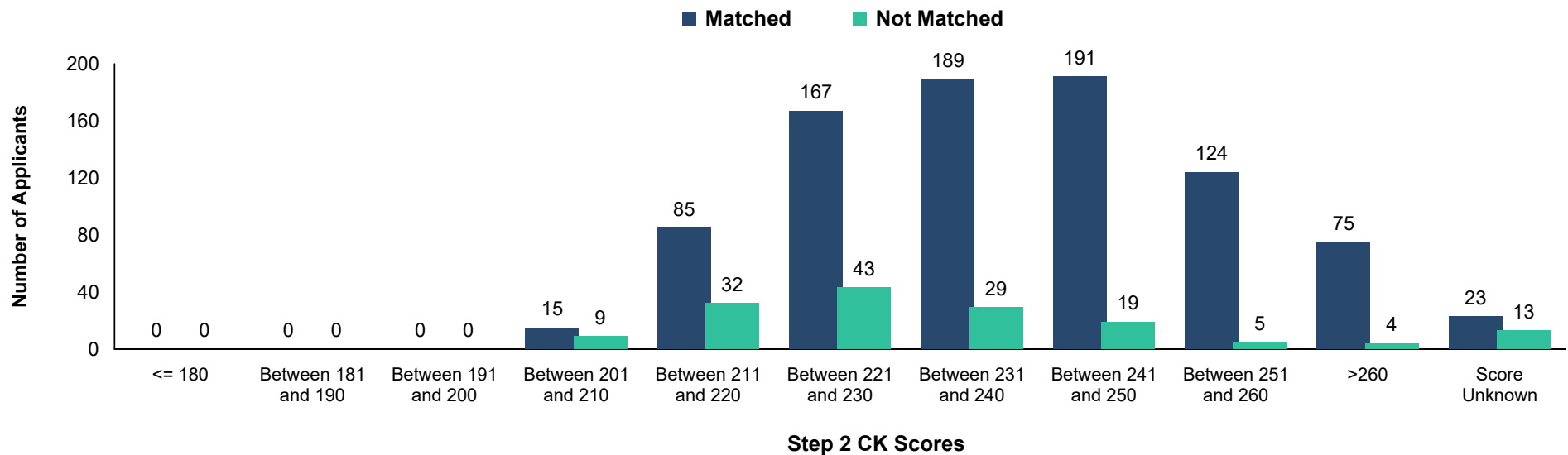
**Chart  
P-3**

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

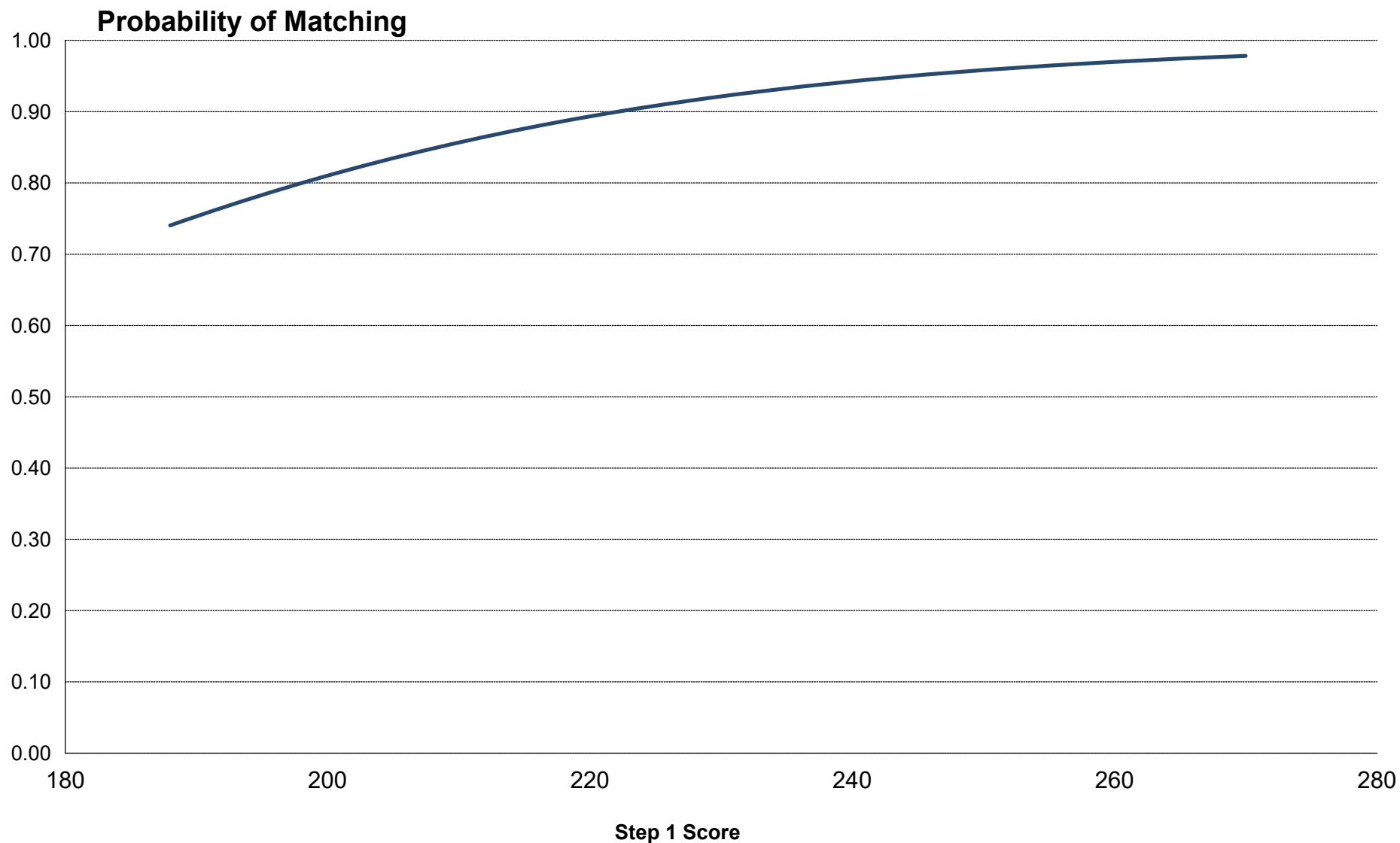


**Chart  
P-4**

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



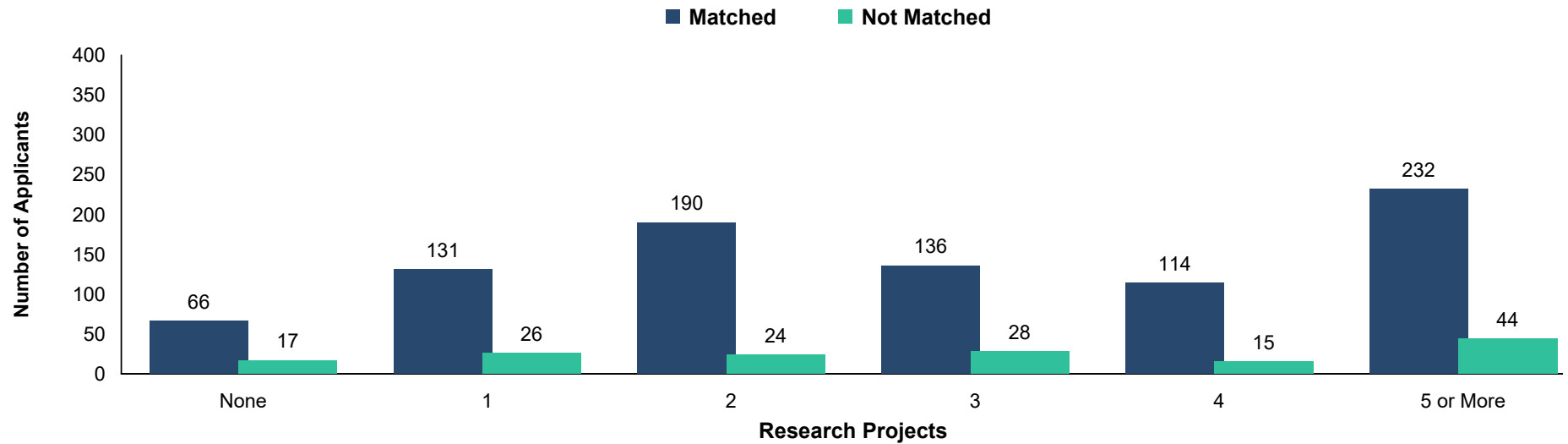
# Probability of U.S. Allopathic Seniors Matching to Preferred Specialty by USMLE Step 1 Score *Psychiatry*



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

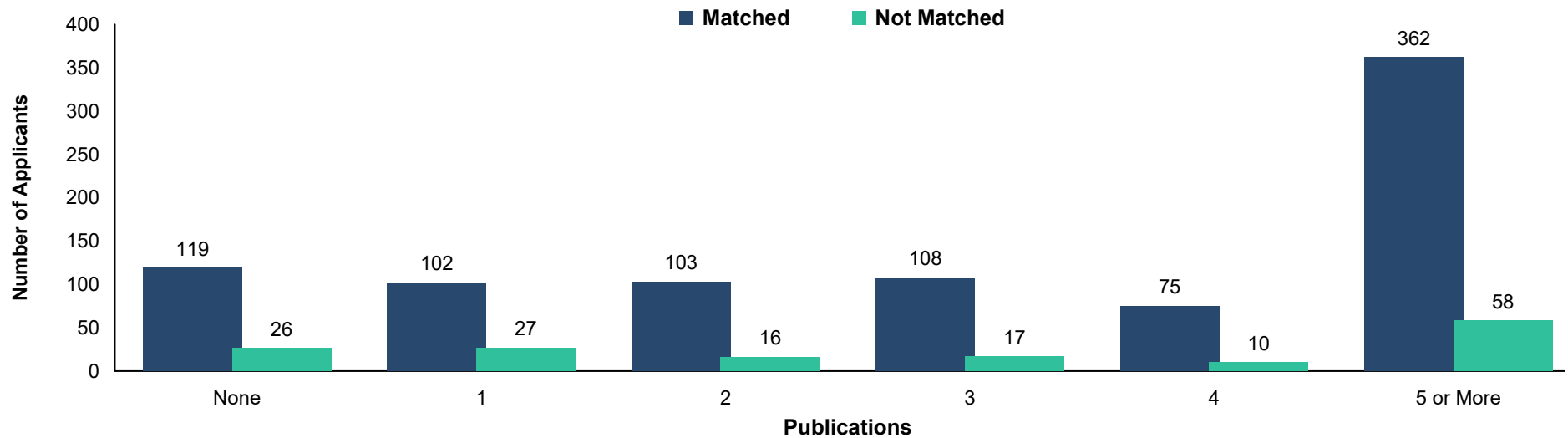
**Chart  
P-5**

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



**Chart  
P-6**

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

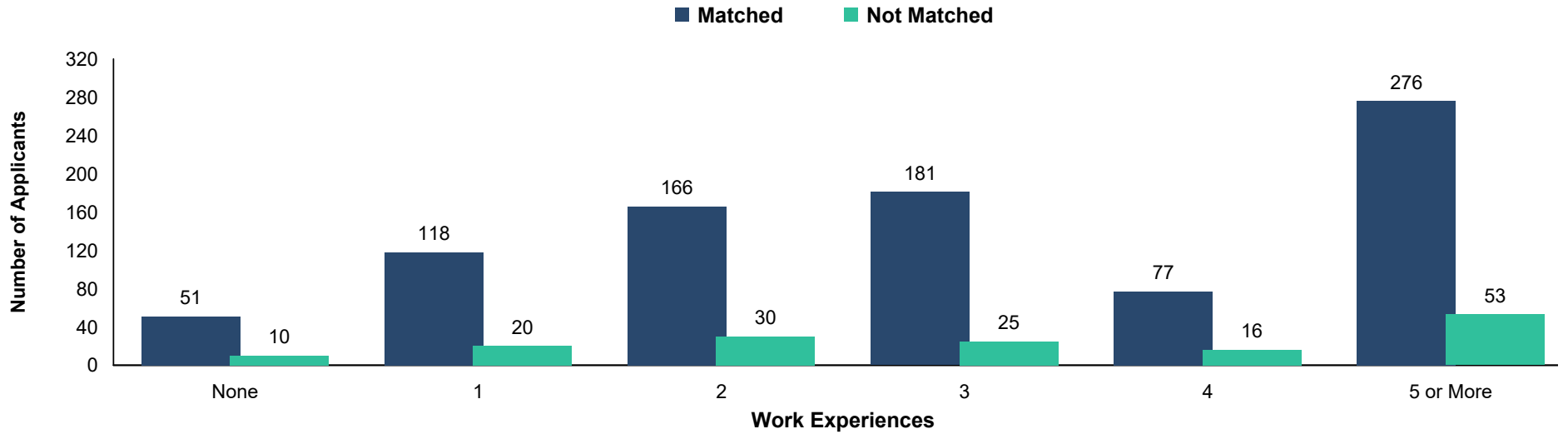


Source: NRMP Data Warehouse



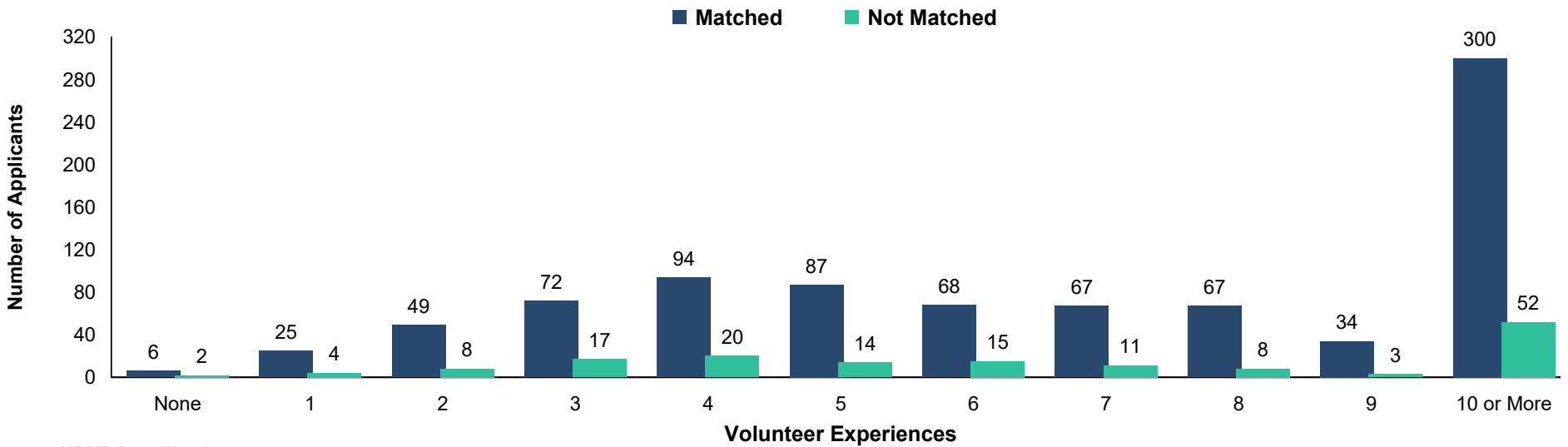
**Chart  
P-7**

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



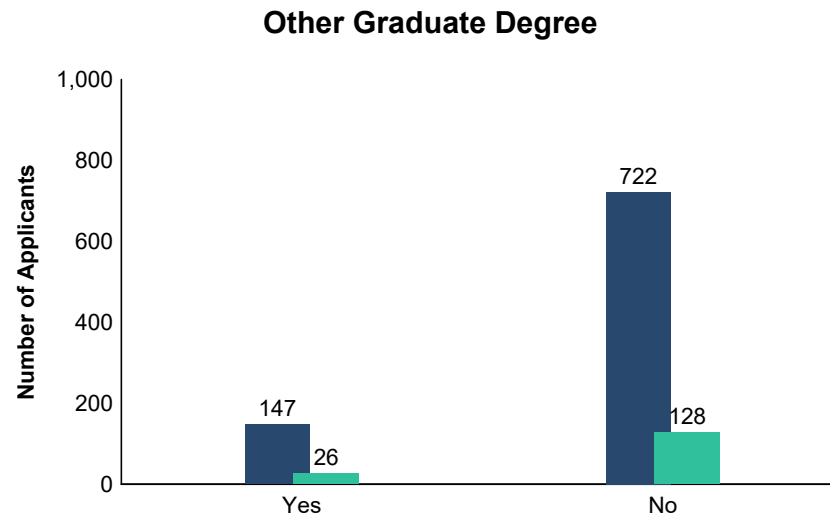
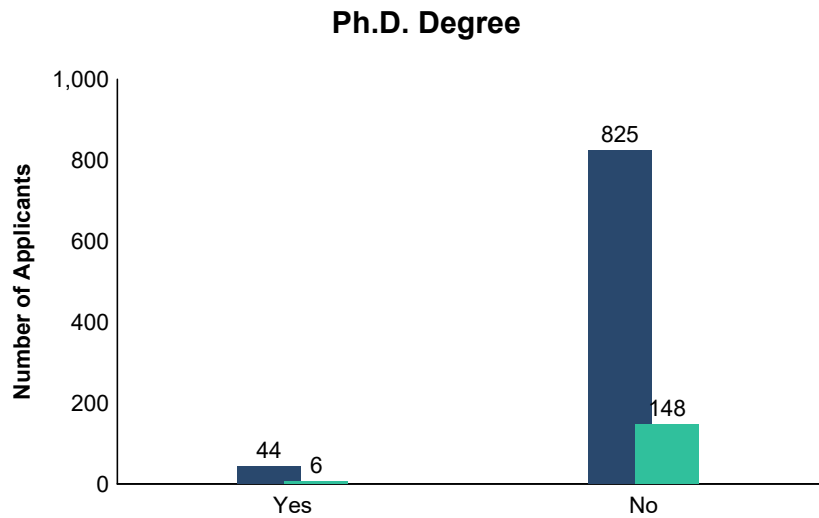
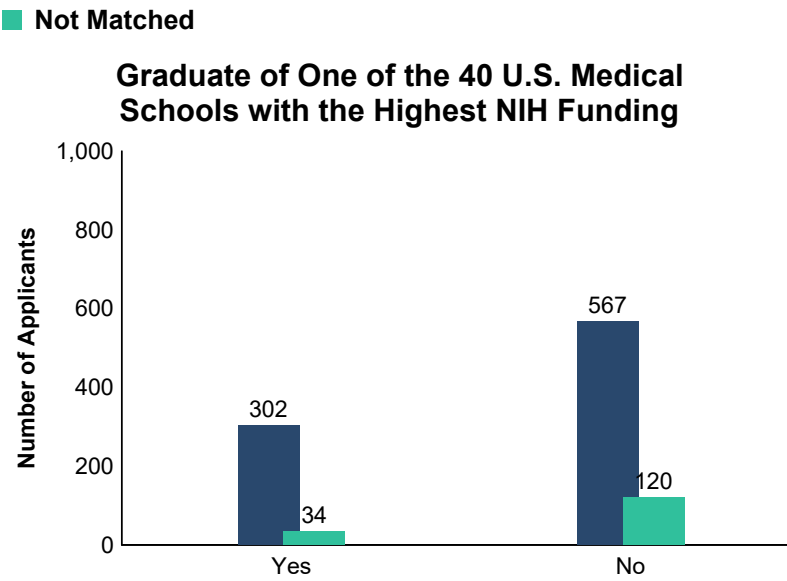
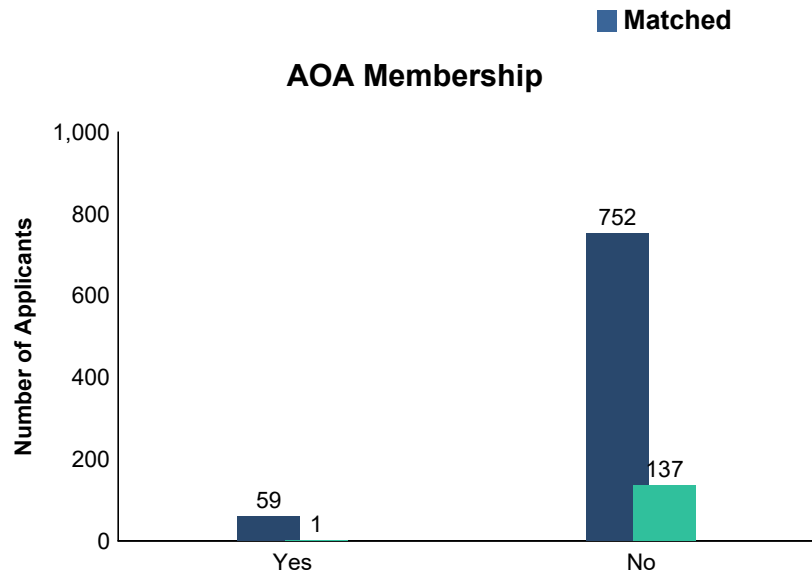
**Chart  
P-8**

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



Source: NRMP Data Warehouse

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



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

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**RO** Radiation Oncology

**Table  
RO-1****Summary Statistics on U.S. Allopathic Seniors  
Radiation Oncology**

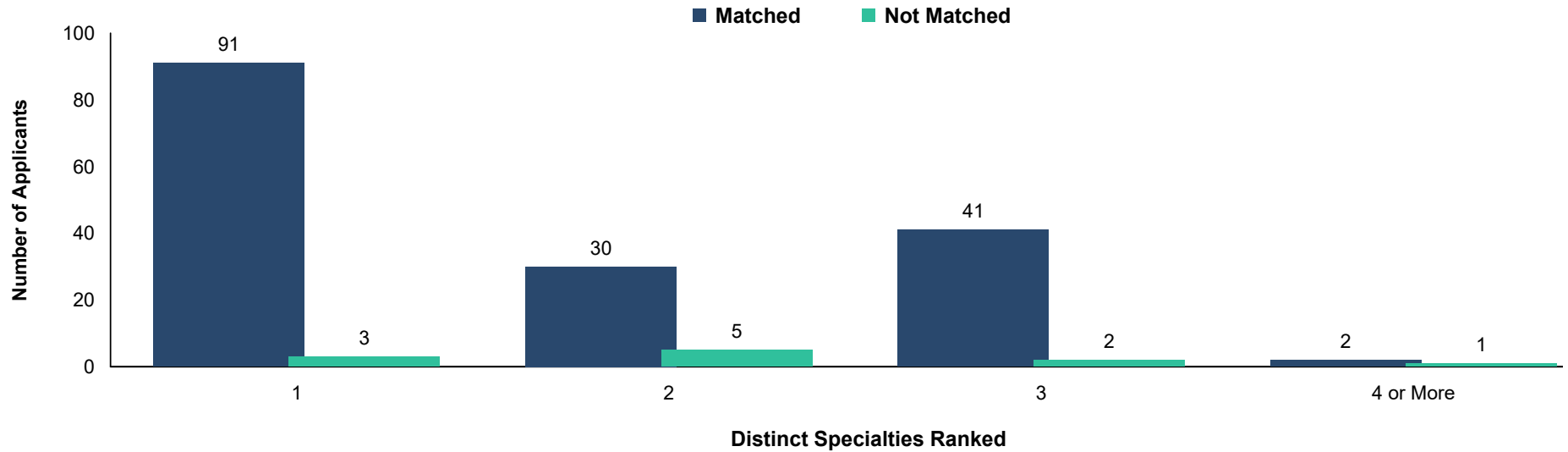
Measure	Matched (n=165)	Unmatched (n=11)
1. Mean number of contiguous ranks	12.3	7.6
2. Mean number of distinct specialties ranked	1.7	2.1
3. Mean USMLE Step 1 score	247	238
4. Mean USMLE Step 2 score	253	243
5. Mean number of research experiences	6.1	4.2
6. Mean number of abstracts, presentations, and publications	15.6	12.2
7. Mean number of work experiences	3.0	4.2
8. Mean number of volunteer experiences	6.6	7.4
9. Percentage who are AOA members	35.2	27.3
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	40.0	18.2
11. Percentage who have Ph.D. degree	20.8	22.2
12. Percentage who have another graduate degree	19.2	11.1

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

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

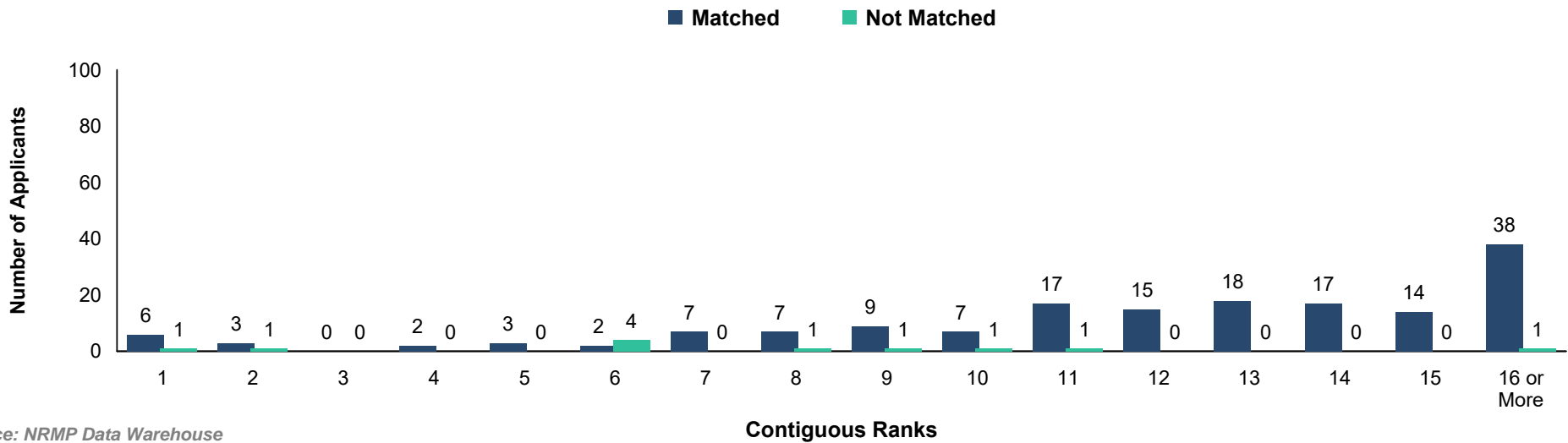
**Chart  
RO-1**

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



**Chart  
RO-2**

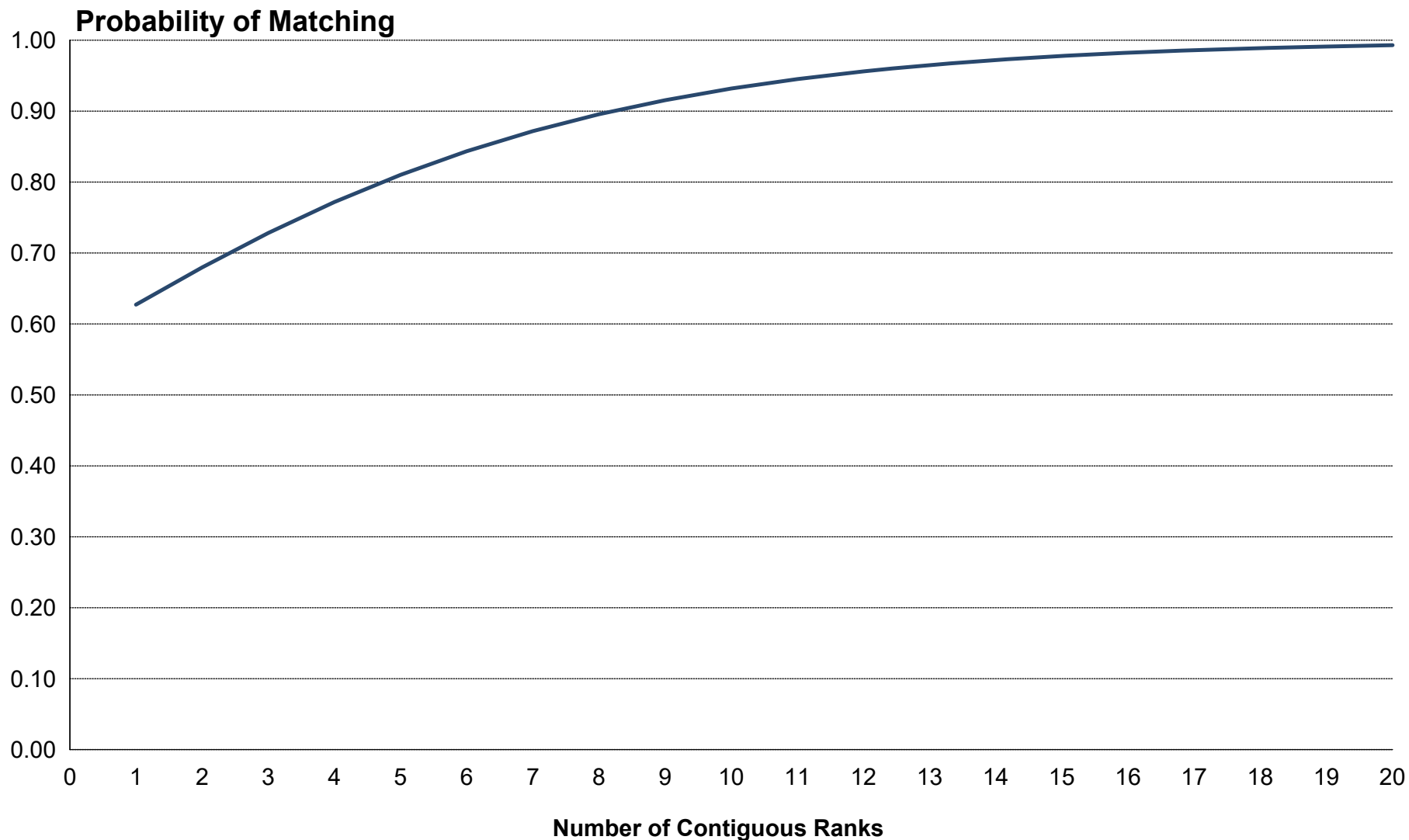
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Radiation Oncology***



Source: NRMP Data Warehouse

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

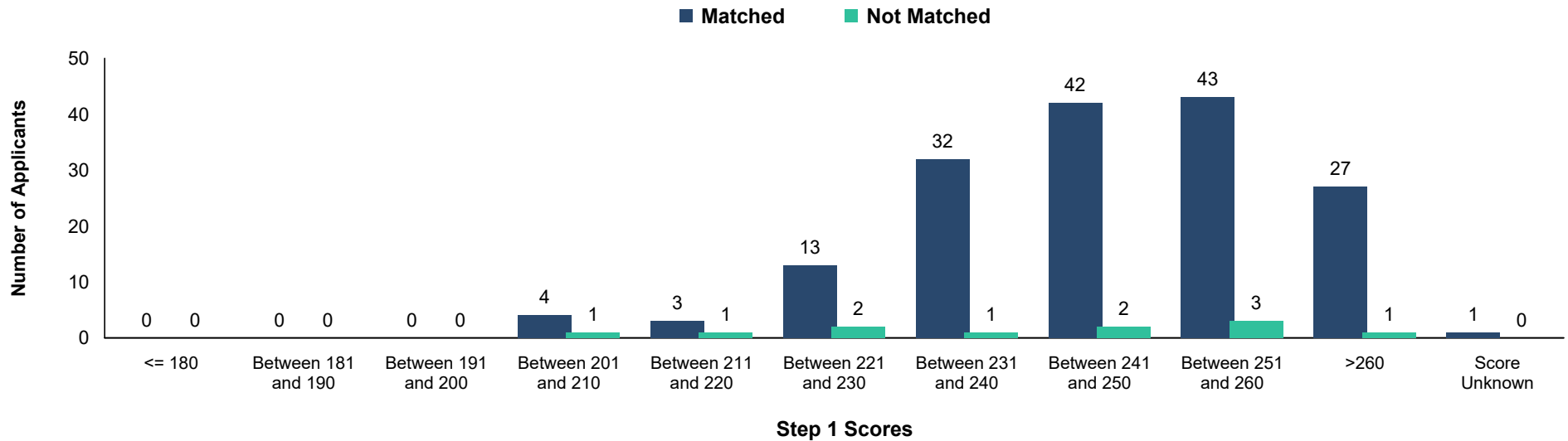
*Radiation Oncology*



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

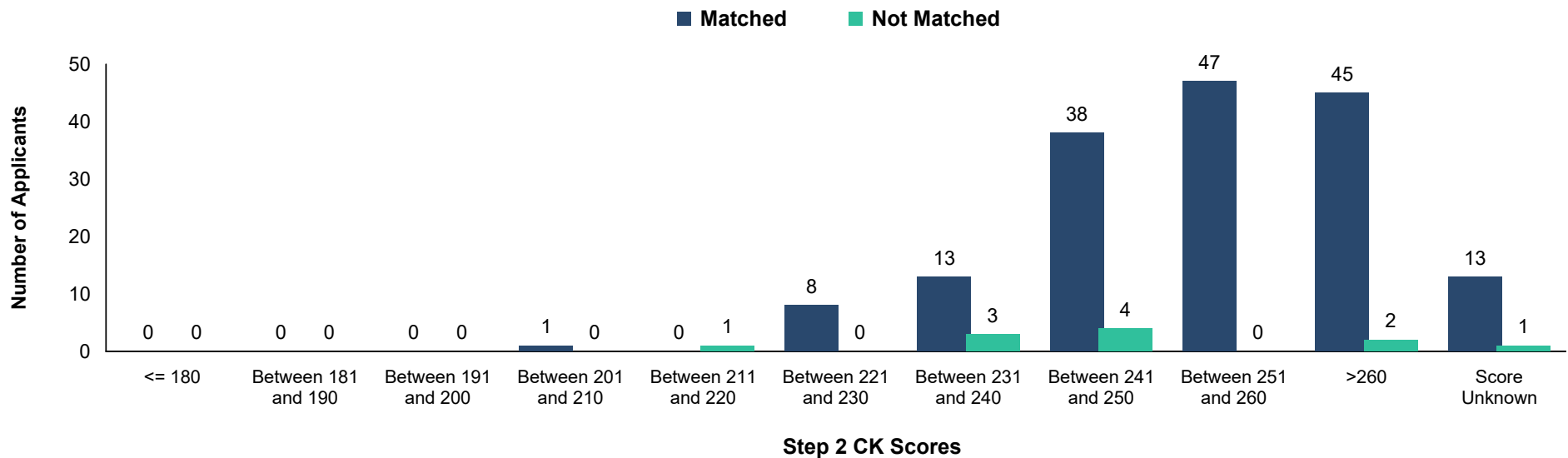
**Chart  
RO-3**

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



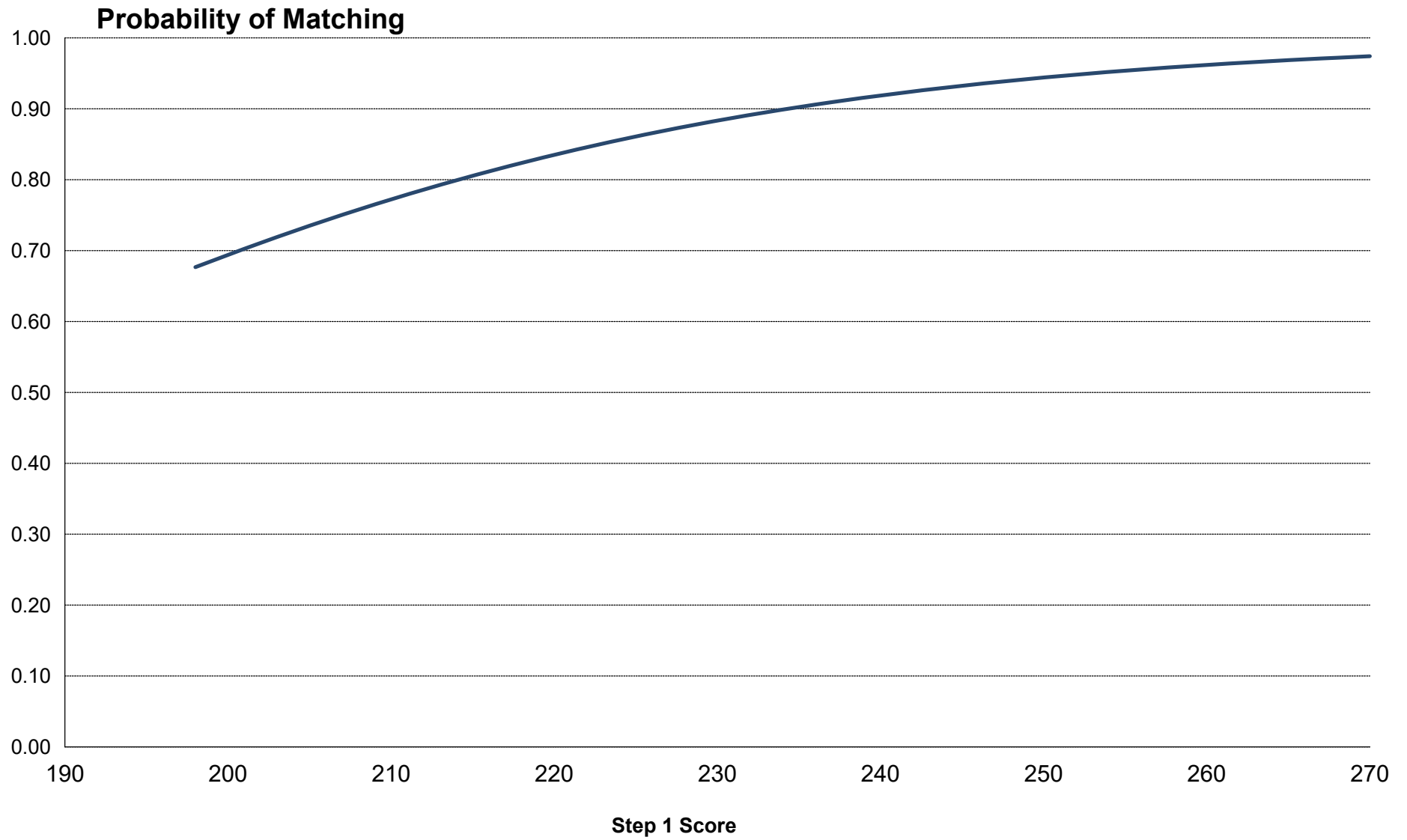
**Chart  
RO-4**

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



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

## *Radiation Oncology*

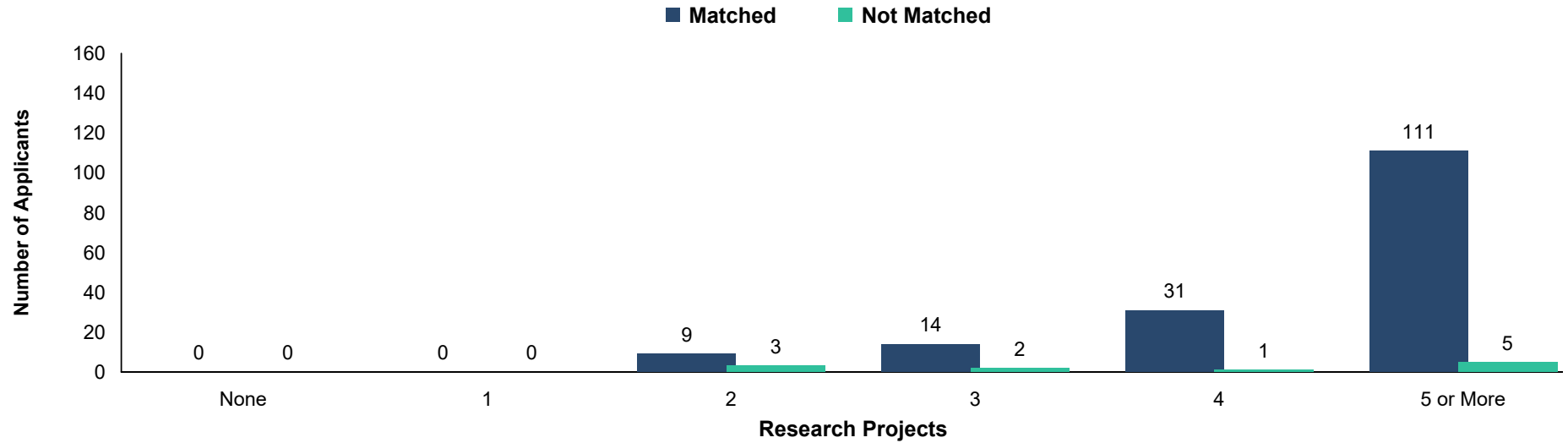


Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.



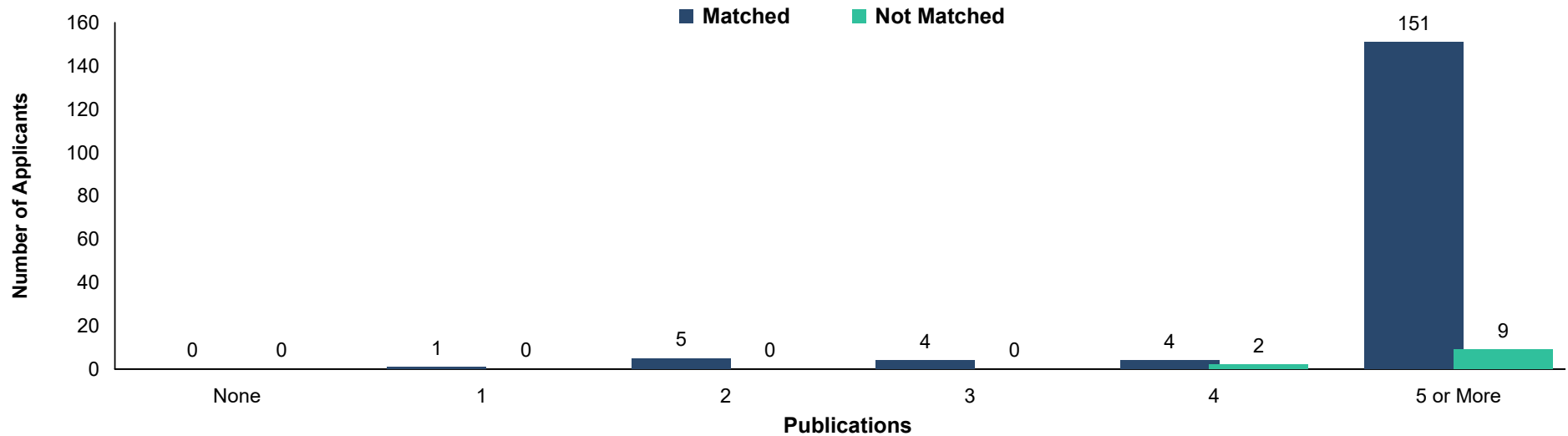
**Chart  
RO-5**

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



**Chart  
RO-6**

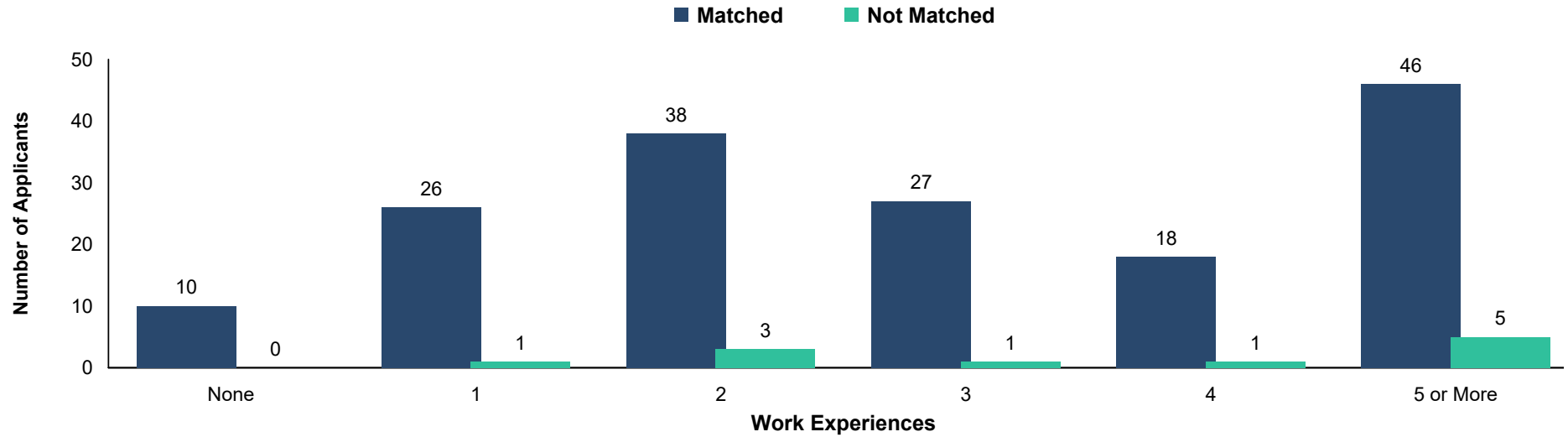
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Radiation Oncology***



Source: NRMP Data Warehouse

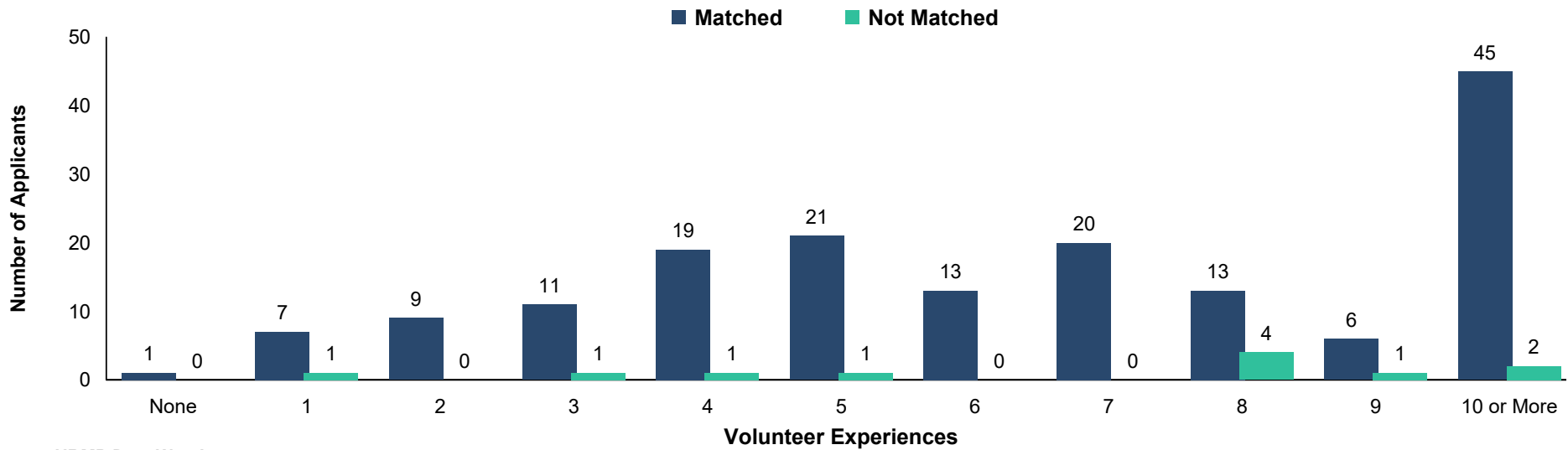
**Chart  
RO-7**

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



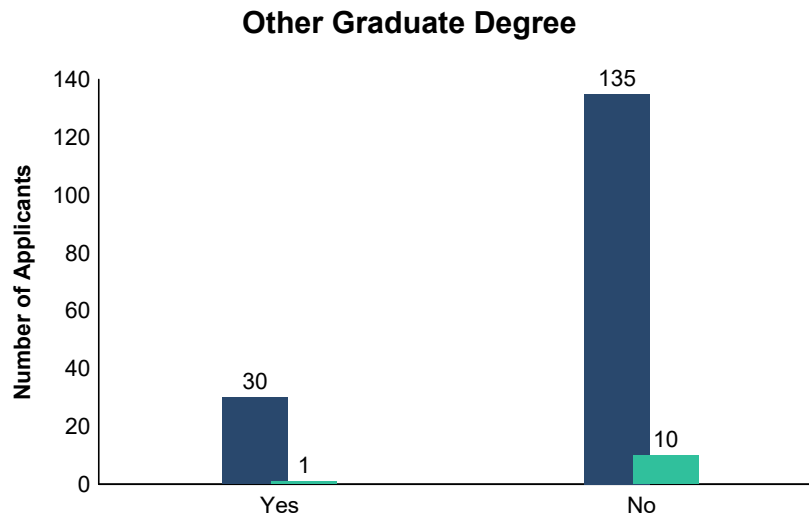
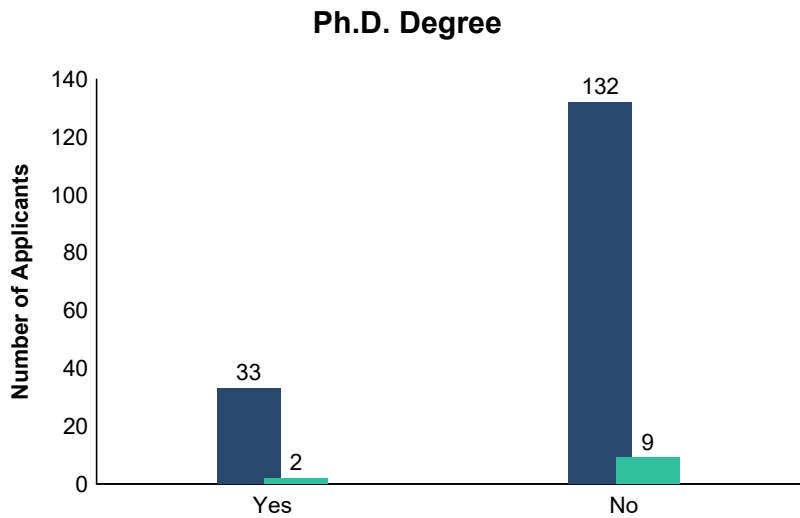
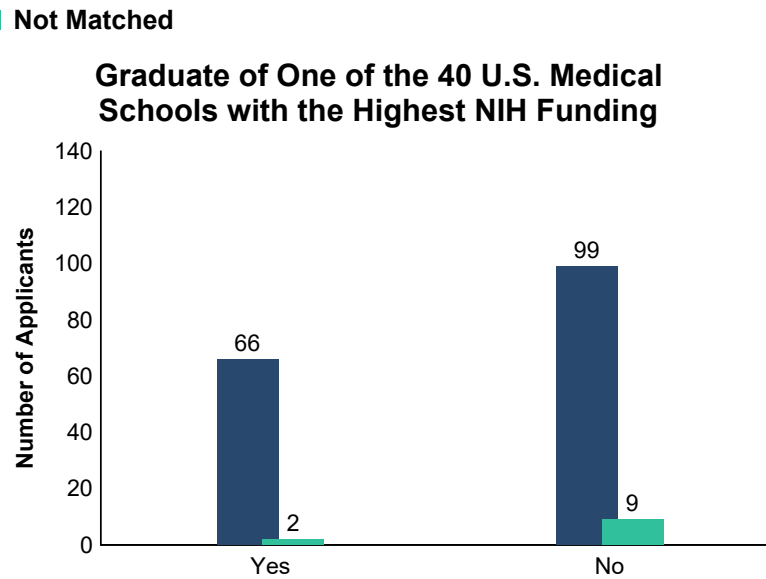
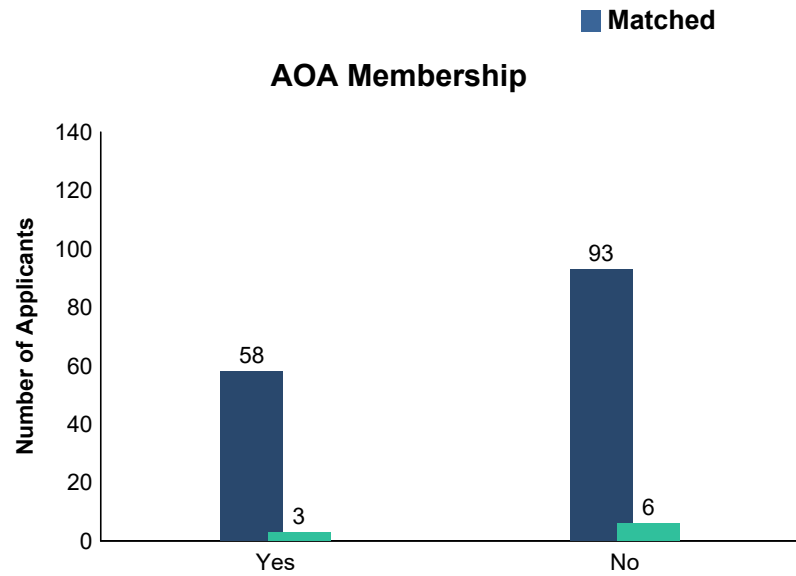
**Chart  
RO-8**

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



Source: NRMP Data Warehouse

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



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

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**VS** **Vascular Surgery**

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

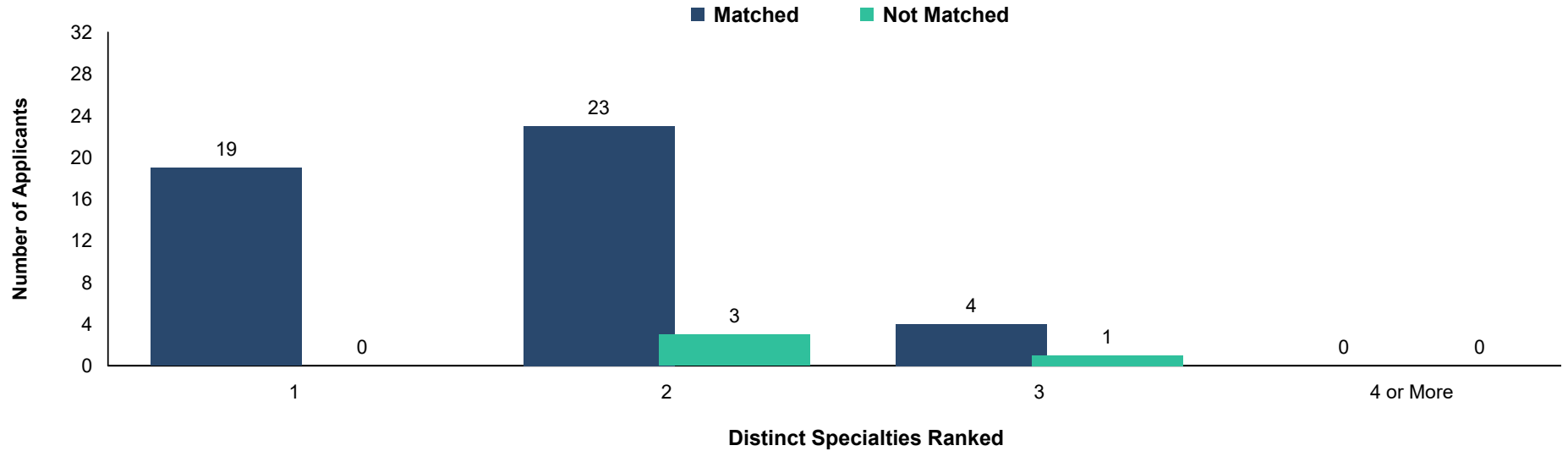
Measure	Matched (n=46)	Unmatched (n=4)
1. Mean number of contiguous ranks	16.0	3.5
2. Mean number of distinct specialties ranked	1.7	2.3
3. Mean USMLE Step 1 score	236	219
4. Mean USMLE Step 2 score	244	229
5. Mean number of research experiences	4.9	3.3
6. Mean number of abstracts, presentations, and publications	8.3	3.3
7. Mean number of work experiences	2.9	6.8
8. Mean number of volunteer experiences	6.4	8.0
9. Percentage who are AOA members	17.4	0.0
10. Percentage who graduated from one of the 40 U.S. medical schools with the highest NIH funding	37.0	25.0
11. Percentage who have Ph.D. degree	0.0	0.0
12. Percentage who have another graduate degree	23.8	50.0

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

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

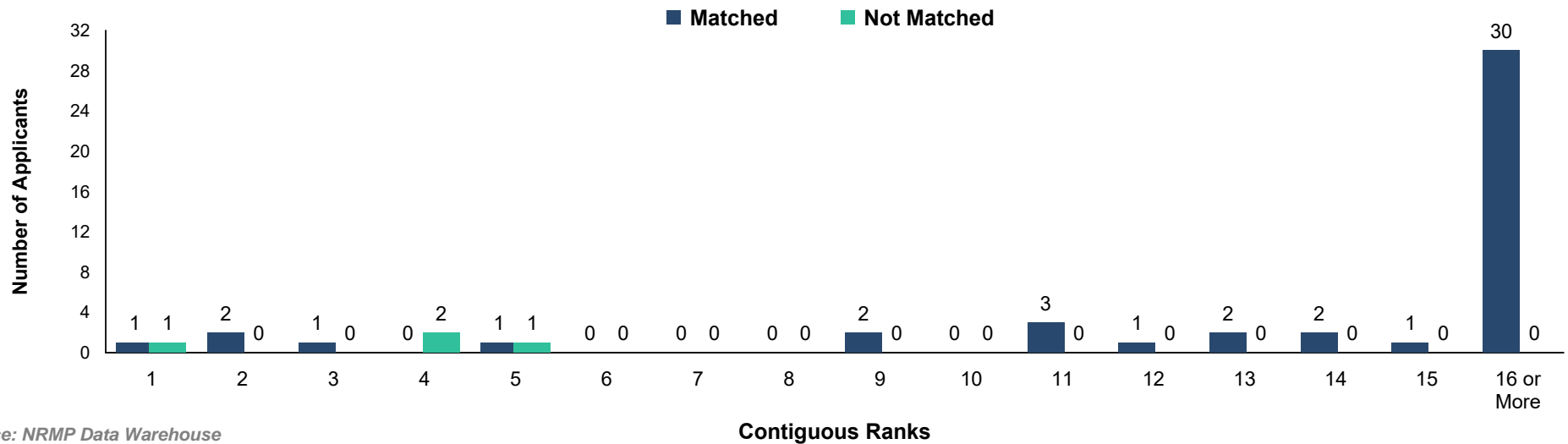
**Chart  
VS-1**

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



**Chart  
VS-2**

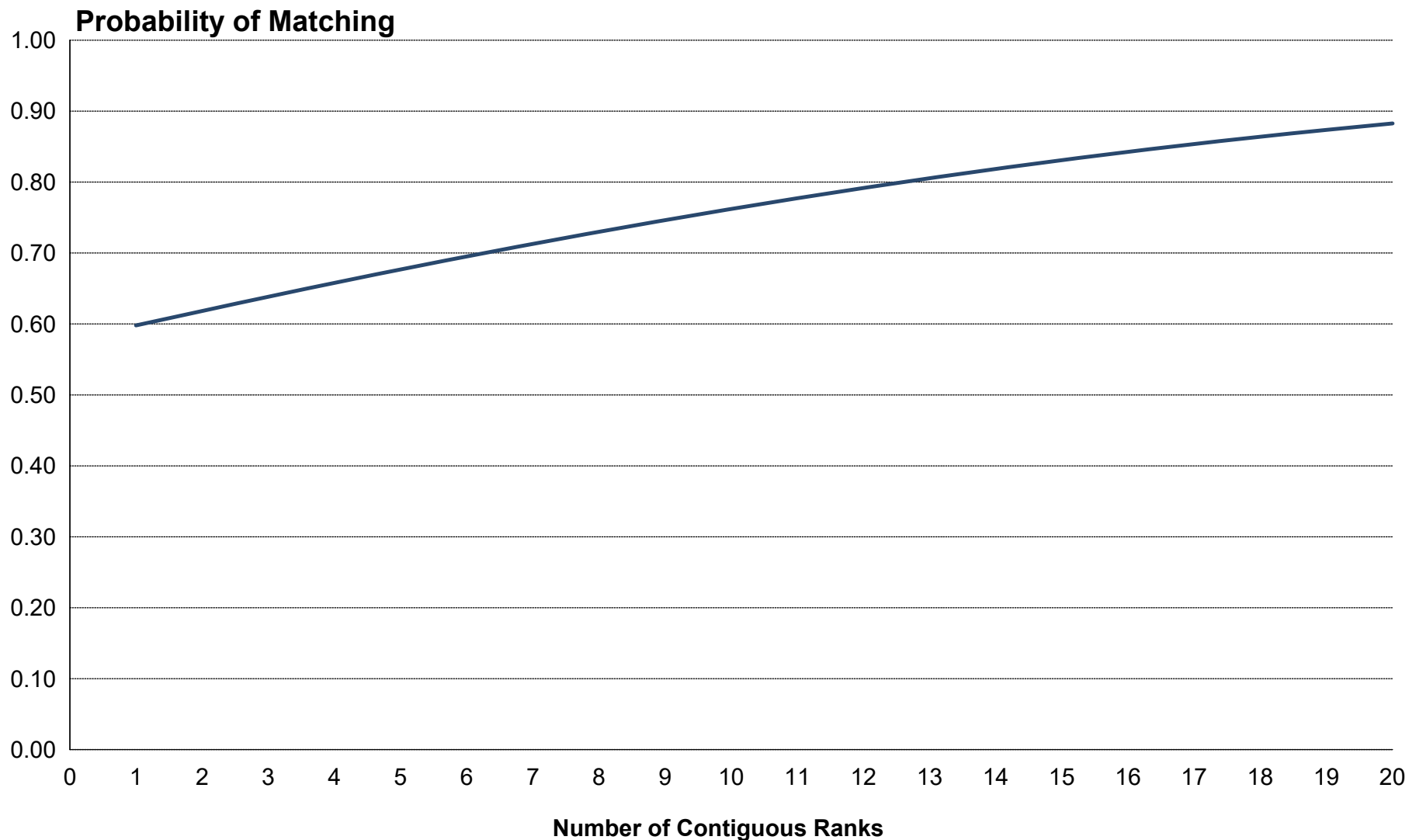
**Number of Contiguous Ranks of U.S. Allopathic Seniors  
*Vascular Surgery***



Source: NRMP Data Warehouse

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

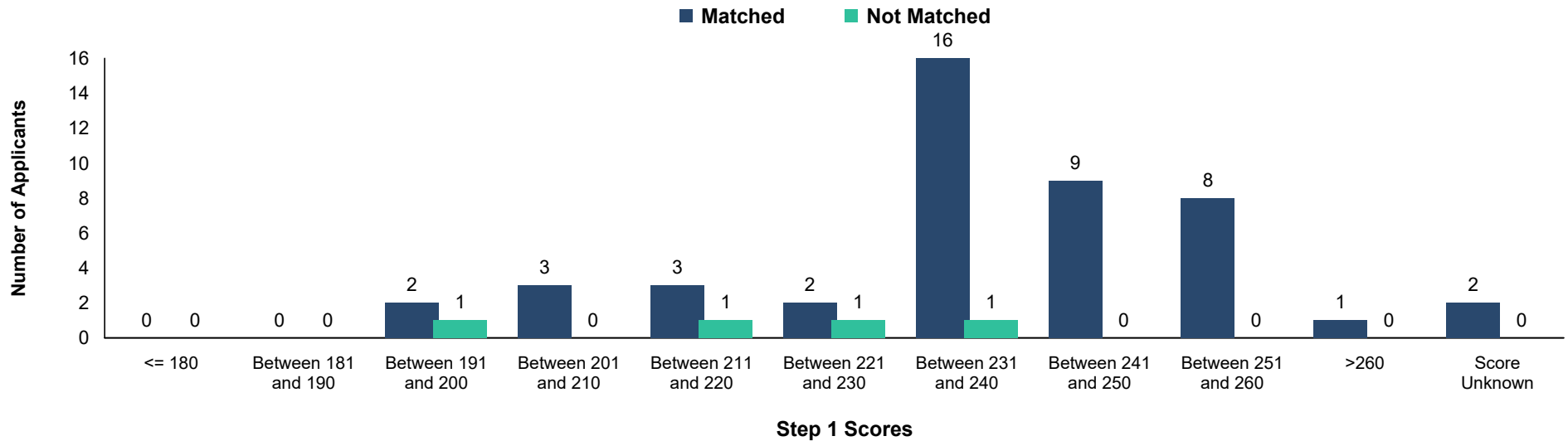
*Vascular Surgery*



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

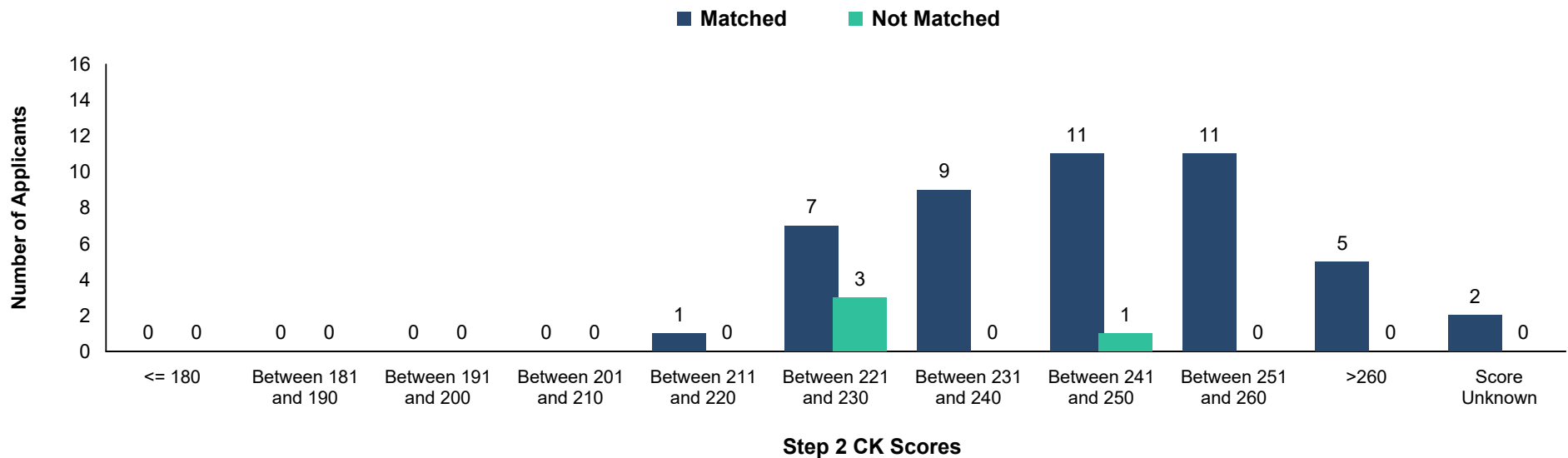
**Chart  
VS-3**

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



**Chart  
VS-4**

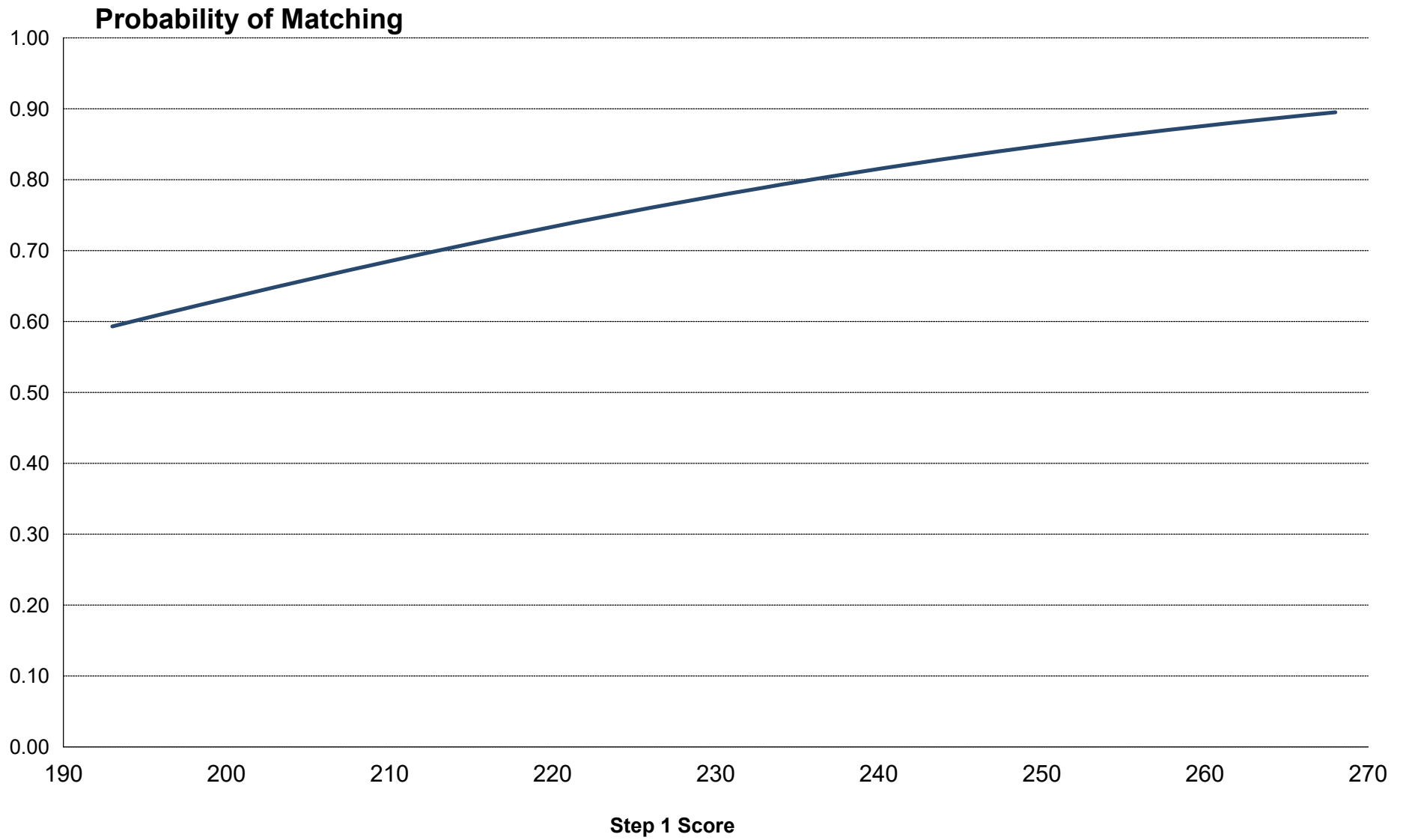
**USMLE Step 2 CK Scores of U.S. Allopathic Seniors  
*Vascular Surgery***





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

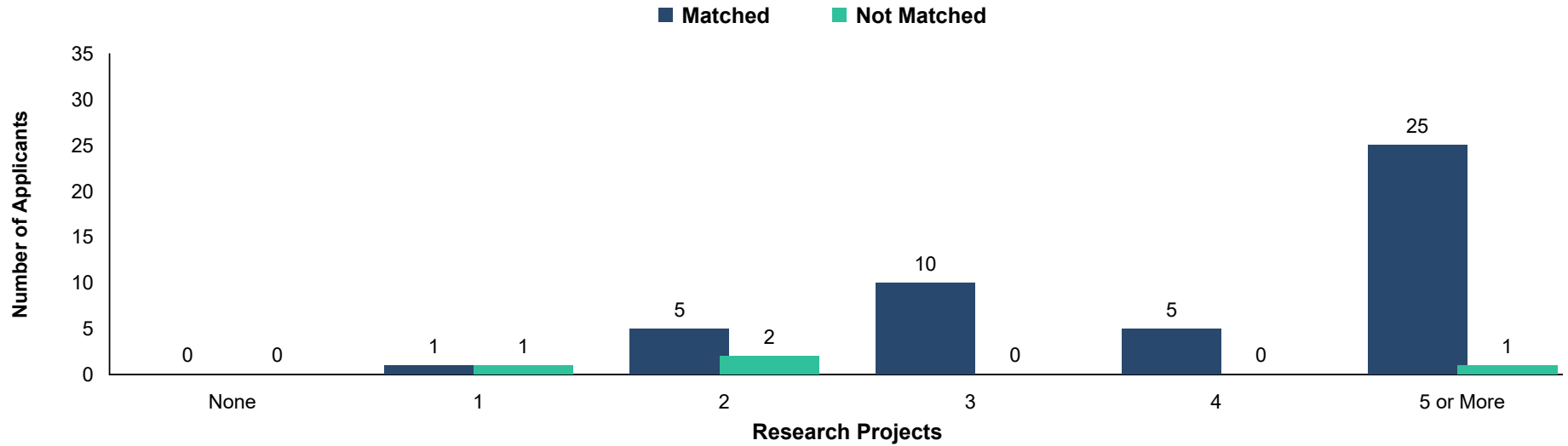
## Vascular Surgery



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

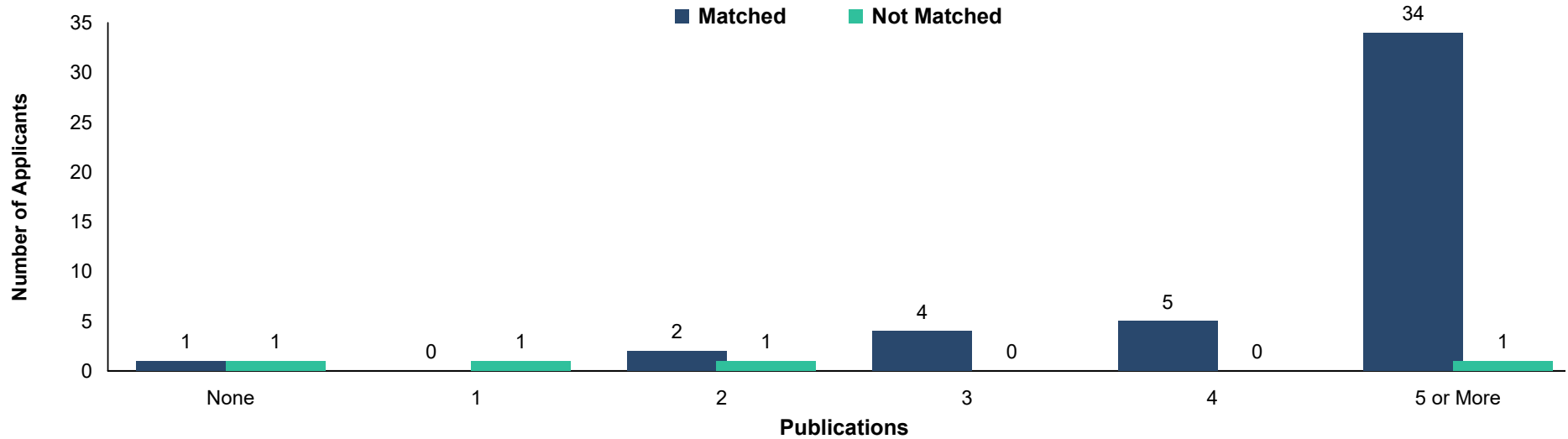
**Chart  
VS-5**

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



**Chart  
VS-6**

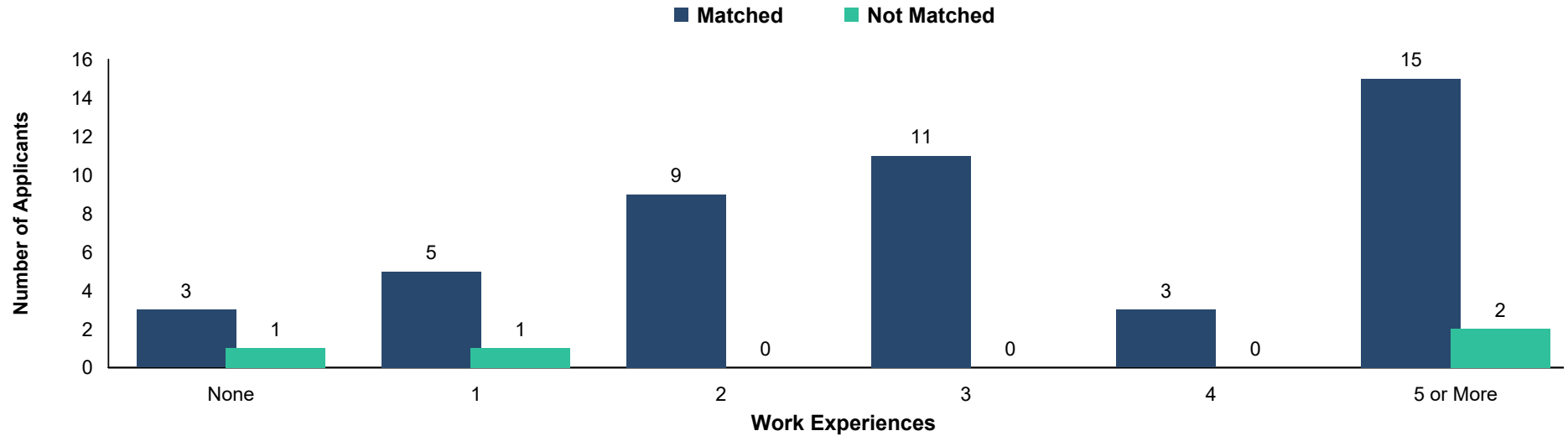
**Number of Abstracts, Presentations, and Publications of U.S. Allopathic Seniors  
*Vascular Surgery***



Source: NRMP Data Warehouse

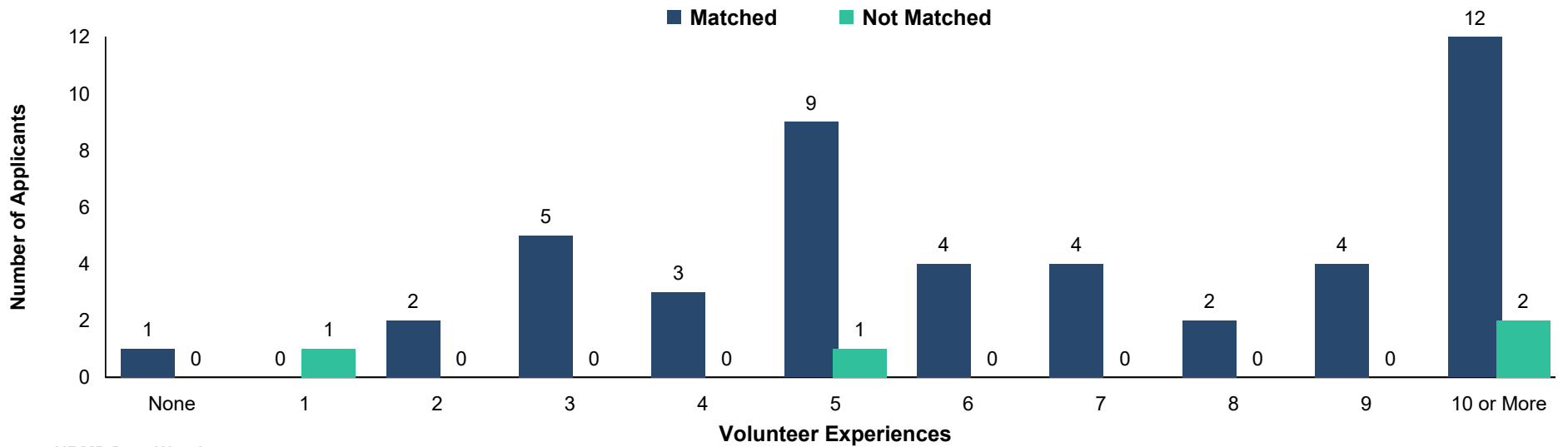
**Chart  
VS-7**

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



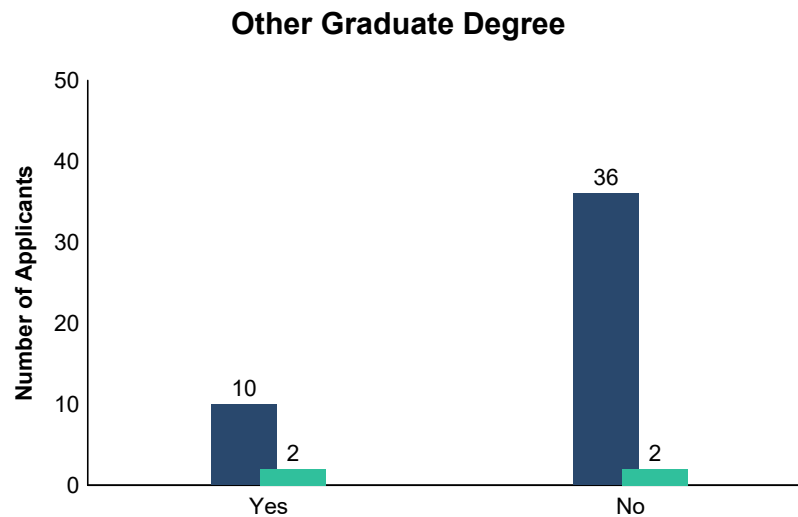
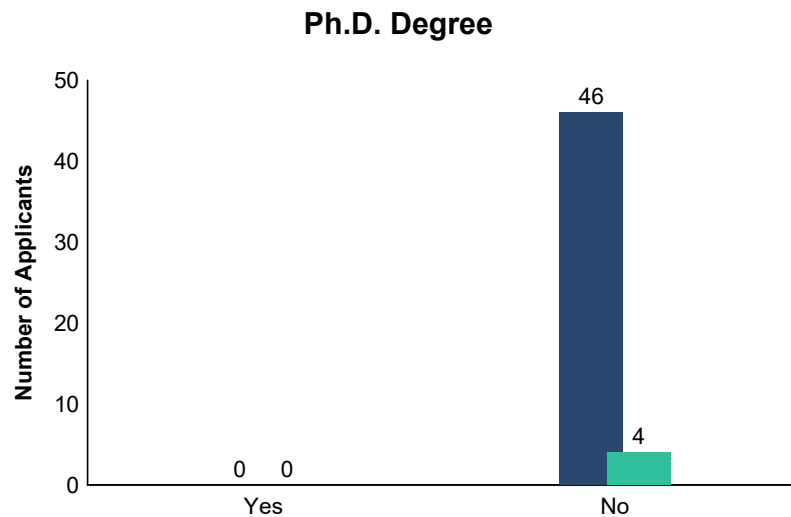
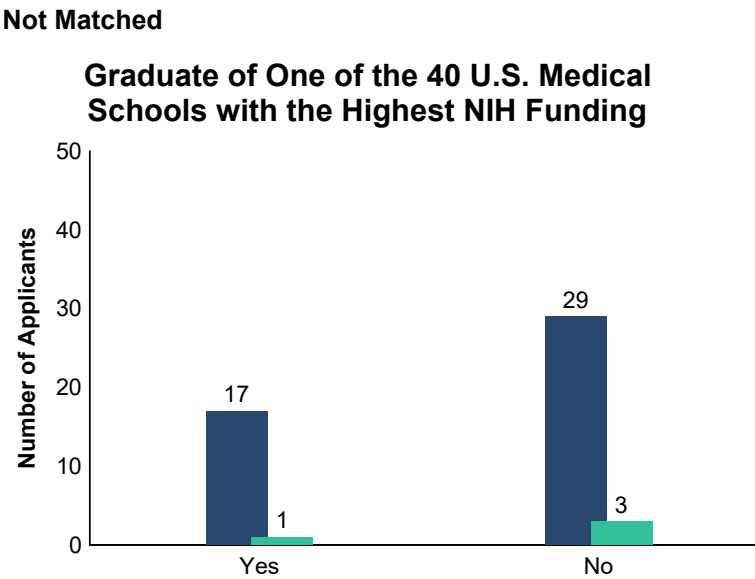
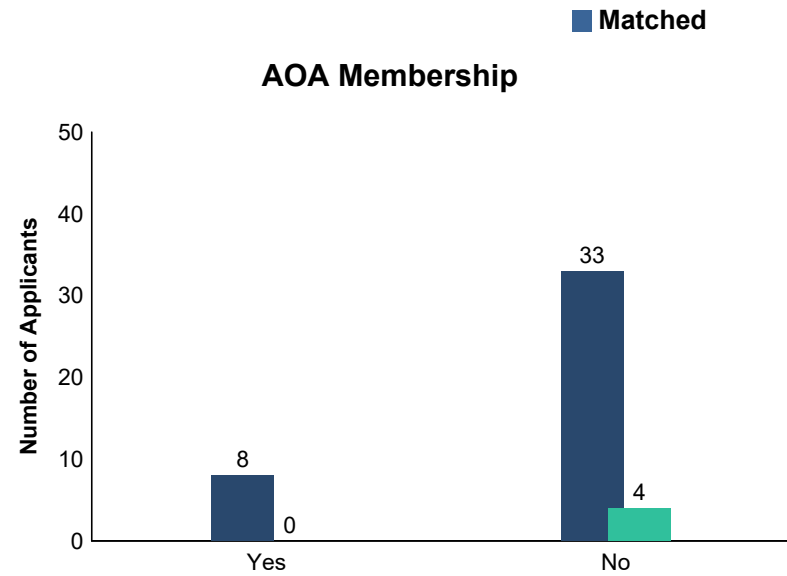
**Chart  
VS-8**

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



Source: NRMP Data Warehouse

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



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