Charting Outcomes in the Match

Specialties Matching Service®, Appointment Year 2018

Characteristics of Applicants Who Matched to Their Preferred Specialty

2nd Edition

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

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2018 Introduction

Background

The National Resident Matching Program (NRMP) Specialties Matching Service® (SMS®) conducts Matches for advanced residency and fellowship positions. For the 2018 appointment year, NRMP offered matching services for 63 subspecialties within 25 Matches. A total of 10,778 applicants from U.S. and international medical schools ranked positions and 8,753 obtained fellowship positions.

Charting Outcomes in the Match: Specialties Matching Service explores how applicant qualifications affect success in the Fellowship Matches. The first report, published in 2011, was a collaboration between the NRMP and the Association of American Medical Colleges (AAMC). In 2014, NRMP added a Professional Profile section to its Match registration process to collect United States Medical Licensing Examination (USMLE) scores and other applicant characteristics, and those have been used to independently publish all subsequent *Charting Outcomes in the Match* reports. This is the second edition of the *Charting Outcomes in the Match: Specialties Matching Service* and the first using only data collected by the NRMP.

Methods

NRMP identified ten applicant characteristics that contribute to Match success: number of contiguous ranks, number of specialties ranked, USMLE Step 1, Step 2 CK, and Step 3 scores, number of research, work, and volunteer experiences, number of publications, and Alpha Omega Alpha Honor Medical Society (AOA) membership (applicable only to U.S. allopathic graduates). All 63 specialties that participated in the Specialties Matching Service are included in the tables and charts for all specialties, but specialty-specific tables and charts are available for only the 24 specialties that offered at least 50 positions and had at least 50 applicants who supplied information for research.

Not all applicants supplied data or gave the NRMP permission to use their self-reported data for research. As a result, missing data exist in most self-reported characteristics: 41.8 percent of USMLE Step 1 scores, 43.2 percent of Step 2 CK scores, 50.5 percent of Step 3 scores, 46.2 percent of research experience data, 45.0 percent of publication data, 48.1 percent of work experience data, and 49.3 percent of volunteer experience data were missing. AOA membership is reported only for previous U.S. graduates, and only 15.7 percent identified themselves as AOA members.

In multiple-specialty Matches, an applicant may rank more than one specialty. It is important to note that for the purpose 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 their first, second, third, or lower choice program.

Four applicant groups are included in the report: U.S. allopathic medical school graduates, U.S. citizen international medical school graduates (U.S. IMGs), non-U.S. citizen international medical school graduates (non-U.S. IMGs), and U.S. osteopathic medical school graduates. Because of the small number of applicants, the report does not include Canadian medical school graduates and graduates of Fifth Pathway programs. Osteopathic applicants were excluded from some charts due to the small number of observations.

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Summary

Some general observations apply to all specialties in this report. Applicants who are successful in matching to their preferred specialty are more likely to

- rank more programs within their preferred specialty
- be U.S. graduates
- have higher USMLE Step 1, Step 2, and Step 3 scores
- be members of Alpha Omega Alpha Honor Medical Society (AOA)

Although some other measures seem to be related to Match success for some specialties, the relationships were not consistent enough to draw broad conclusions across specialties. In addition, the data sources used for *Charting Outcomes* did not include other important applicant factors such as program director 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, and a high score is not a guarantee of success. Even in the least competitive specialties a few individuals with higher scores are not successful. Neither is a lower score a bar to success.

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

- Rank all 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 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 would want to have a fellowship 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 an AOA member, to have the highest USMLE scores, to have publications, or to have participated in research projects to match successfully.

For questions, comments or more information, please contact

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Tables and Charts for All Specialties

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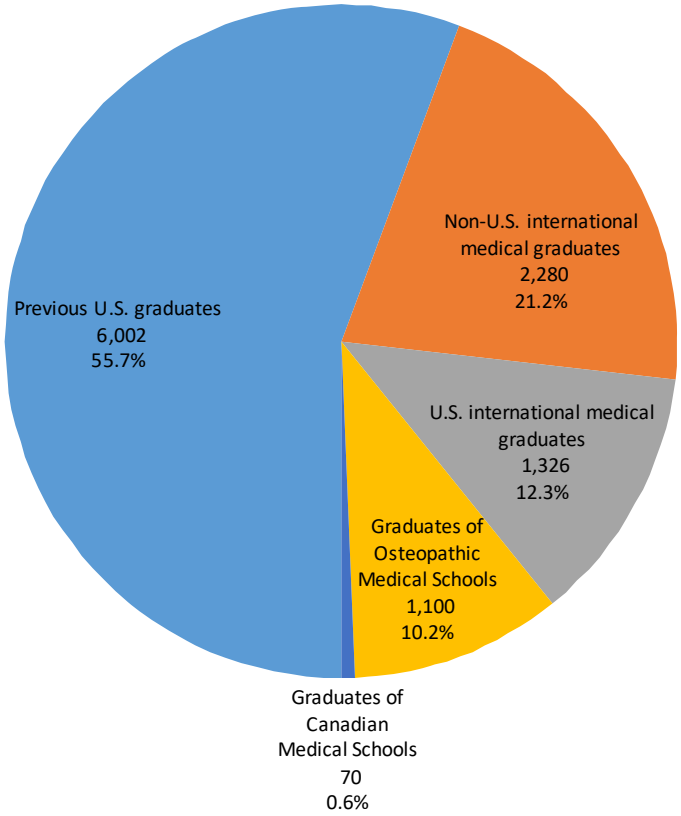
Chart 1 Active Applicants in the Specialties Matching Service, 2018 Appointment Year

by Applicant Type



Source: NRMP Data Warehouse

Chart 1 shows the number of all active applicants who participated in the Specialties Matching Service (applicants who submitted rank order lists of programs) by applicant type. A total of 10,778 active applicants participated for 2018 appointments. U.S. allopathic medical school graduates constituted 55.7 percent of the applicants in the Match. Non-U.S. IMGs, U.S. IMGs, and osteopathic graduates constituted 21.2 percent, 12.3 percent, and 10.2 percent of the applicant pool, respectively.

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Table 1 Summary Statistics
All SMS Specialties Combined

Measure	U.S. Graduates		U.S. International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
	Matched (n=5,323)	Unmatched (n=679)	Matched (n=903)	Unmatched (n=423)	Matched (n=1,542)	Unmatched (n=738)	Matched (n=837)	Unmatched (n=263)
1. Mean number of contiguous ranks	7.5	4.3	7.0	3.1	7.6	3.3	6.1	3.7
2. Mean number of distinct specialties ranked	1.1	1.1	1.1	1.2	1.1	1.2	1.1	1.1
3. Mean USMLE Step 1 score	234	225	228	224	236	231	n/a	n/a
4. Mean USMLE Step 2 score	245	236	234	229	241	235	n/a	n/a
5. Mean USMLE Step 3 score	229	220	219	214	221	216	n/a	n/a
6. Mean number of research experiences	4.7	4.0	3.5	5.5	4.1	3.8	3.1	3.1
7. Mean number of abstracts, presentations, and publications	8.8	8.2	8.6	7.6	13.5	11.3	5.8	6.0
8. Mean number of work experiences	3.8	3.5	3.5	3.9	4.0	4.6	3.4	3.5
9. Mean number of volunteer experiences	5.8	5.0	4.1	3.5	3.3	2.9	5.7	5.4
10. Percentage who are AOA members	16.7	7.5	n/a	n/a	n/a	n/a	n/a	n/a

n/a: Not applicable or little/no reliable data were available.
Source: NRMP Data Warehouse
Note: USMLE Step 1 scores are not available for most osteopathic medical school graduates.

Table 1 provides summary statistics by applicant type and Match outcome on the 10 measures presented in this report. This table reports on all 63 fellowship specialties with 2018 appointments. For specialties with at least 50 positions and at least 50 applicants who provided data for research, data on each of the measures will be displayed graphically by preferred specialty on the following pages. Very few osteopathic applicants reported USMLE scores or the Comprehensive Osteopathic Medical Licensing Examination (COMLEX-USA) scores. Therefore, USMLE and COMLEX scores are not reported for osteopathic applicants in this report.

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Table 2

Number of Applicants and Positions in the Specialties Matching Service, 2018 Appointment Year

by Preferred Specialty*

Preferred Specialty	Total Positions Offered	Total Number of Applicants	Number of Applicants Per Position	U.S. Graduates		U.S. International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic	
				Matched	Not Matched	Matched	Not Matched	Matched	Not Matched	Matched	Not Matched
Cardiovascular Disease (CD)	894	1,256	1.4	514	56	91	88	233	198	47	29
Child and Adolescent Psychiatry (CAP)	367	282	0.8	138	5	52	5	35	3	41	2
Endocrinology, Diabetes, and Metabolism (EDM)	295	312	1.1	117	4	30	17	99	22	21	2
Gastroenterology (GE)	496	758	1.5	304	69	46	63	115	108	23	29
Geriatric Medicine (GM)	387	174	0.4	66	0	28	1	55	4	19	0
Hand Surgery (HS)	176	188	1.1	154	9			5	3		
Hematology and Oncology (HO)	553	760	1.4	327	62	36	48	142	95	34	15
Hospice and Palliative Medicine (HPM)	319	320	1.0	171	30	31	8	15	8	47	10
Infectious Disease (ID)	394	335	0.9	158	5	43	5	72	9	40	3
Interventional Radiology (IR)	240	248	1.0	180	13	21	4	12	2	15	1
Maternal-Fetal Medicine (MFM)	114	132	1.2	86	13	3	8	10	2	8	2
Neonatal-Perinatal Medicine (NPM)	263	237	0.9	140	3	19	1	46	2	23	2
Nephrology (NEP)	474	282	0.6	90	0	49	1	99	8	33	2
Neuroradiology (RNR)	241	168	0.7	128	4	9	0	13	1	11	0
Pain Medicine (PM)	335	437	1.3	231	56	27	16	24	9	48	25
Pediatric Anesthesiology (PA)	213	187	0.9	141	3	14	0	11	1	15	0
Pediatric Cardiology (PDC)	145	161	1.1	96	8	8	0	27	11	9	2
Pediatric Critical Care Medicine (PCCM)	184	201	1.1	117	16	14	0	36	5	10	3
Pediatric Emergency Medicine (PEM)	180	229	1.3	118	27	21	8	14	6	25	10
Pulmonary Disease and Critical Care Medicine (PCC)	568	752	1.3	288	31	87	49	129	73	56	39
Rheumatology (RHU)	221	313	1.4	118	16	29	29	40	39	29	12
Sleep Medicine (SM)	170	172	1.0	64	8	25	1	44	9	16	2
Sports Medicine (SPM)	266	337	1.3	128	32	27	19	8	4	87	30
Surgical Critical Care (SCC)	255	219	0.9	156	3	15	2	11	5	22	1

*Preferred specialty is the specialty ranked first on an applicant's rank order list.

Source: NRMP Data Warehouse.

Table 2 provides a summary of the numbers of positions offered and applicants who preferred the specialty. The table includes 24 specialties that offered at least 50 positions and had at least 50 applicants who supplied information and gave the NRMP consent to use their information in research. The numbers of applicants matched by applicant type (U.S. graduates, U.S. IMGs, non-U.S. IMGs, and osteopathic graduates) also are provided.

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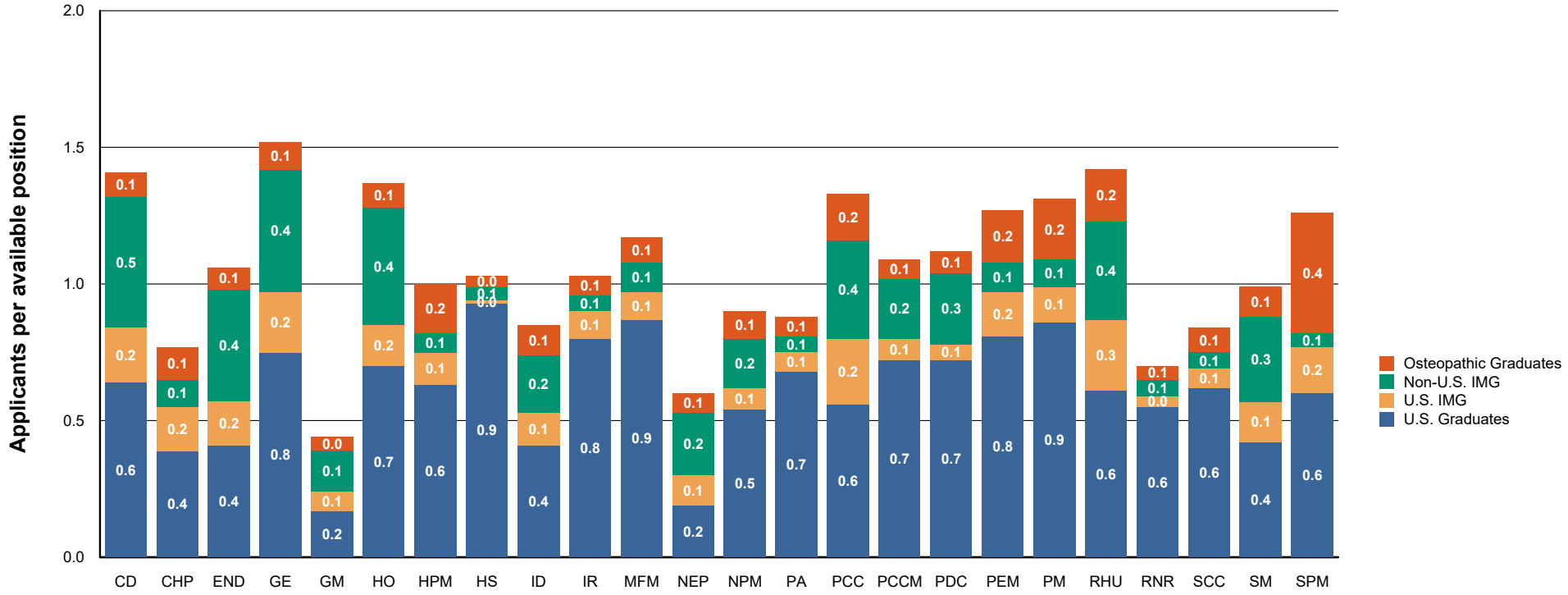
Chart 2 Ratio - Applicants Ranking Specialty First / Available Positions

by Preferred Specialty



CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
CHP	Child and Adolescent Psychiatry	HPM	Hospice and Palliative Med	NEP	Nephrology	PDC	Pediatric Cardiology	SCC	Surgical Critical Care
END	Endocrinology, Diabetes, and Metabolism	HS	Hand Surgery	NPM	Neonatal-Perinatal Medicine	PEM	Pediatric Emergency Medicine	SM	Sleep Medicine
GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Source: NRMP Data Warehouse

Chart 2 shows the ratios of applicants to available positions in each specialty for the four applicant types U.S. graduates, U.S. IMGs, non-U.S. IMGs, and osteopathic graduates. Using Cardiovascular Disease as an example: for each available position, an average of 0.6 U.S. graduates, 0.2 U.S. IMGs, 0.5 non-U.S. IMGs, and 0.1 osteopathic graduates ranked the specialty first on their rank order List. For Child and Adolescent Psychiatry, Geriatric Medicine, Infectious Disease, Nephrology, Neonatal-Perinatal Medicine, Pediatric Anesthesiology, Neuroradiology, Surgical Critical Care, and Sleep Medicine, there were more available positions than applicants who preferred the specialty. In comparison, for each Gastroenterology position more than 1.5 applicants preferred that specialty.

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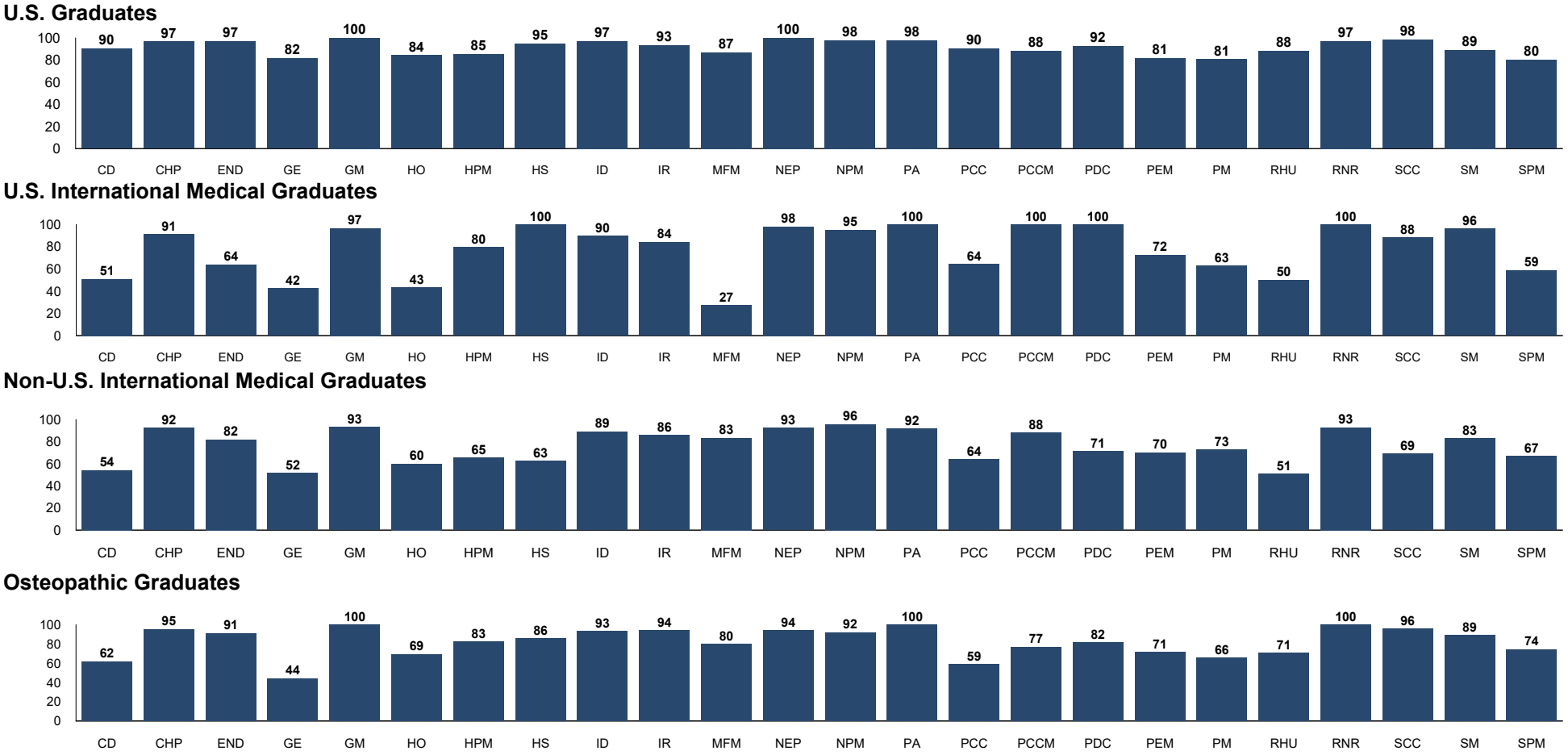
Chart 3 Match Rates

Percent Matched by Preferred Specialty and Applicant Type



Source: NRMP Data Warehouse

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GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Chart 3 shows the percentages of applicants who matched to their preferred specialty by applicant type. Overall, 88.7 percent of U.S. graduates, 68.1 percent of U.S. IMGs, 67.1 percent of non-U.S. IMGs, and 76.1 percent of osteopathic graduates matched to their preferred specialties.

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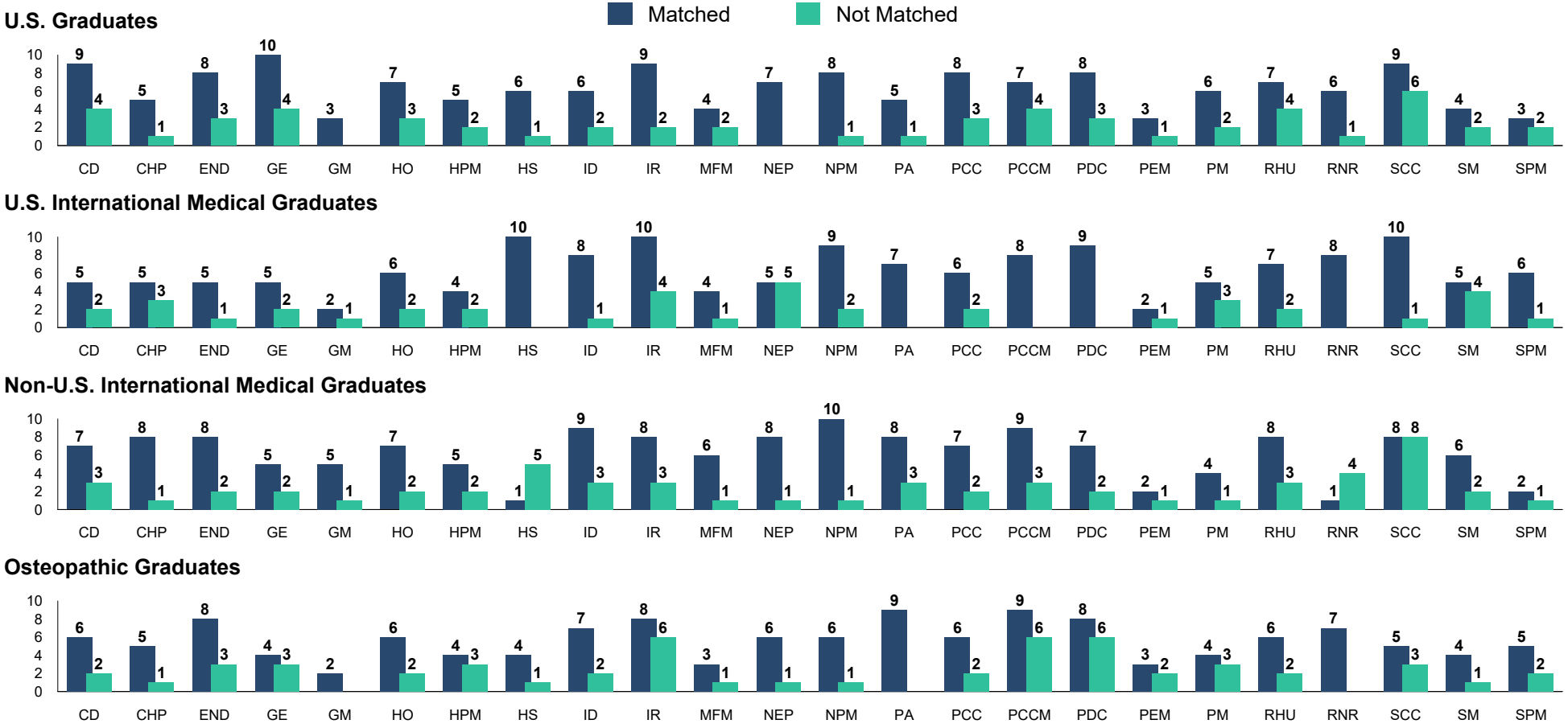
Chart 4 Median Number of Contiguous Ranks

by Preferred Specialty, Applicant Type, and Match Status



Source: NRMP Data Warehouse

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GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

In general, applicants are more likely to match if they rank more programs in their desired specialty. To quantify this aspect of applicant behavior, the number of programs ranked in the first-choice specialty was tallied before a program in another specialty appeared on the applicant s rank order list. Chart 4 provides the median number of contiguous ranks by preferred specialty for each applicant type and by Match outcome. In general, matched applicants had longer contiguous rank lists across applicant types. The principal message of these graphs is that applicants with longer rank order lists are more successful than those with shorter ones.

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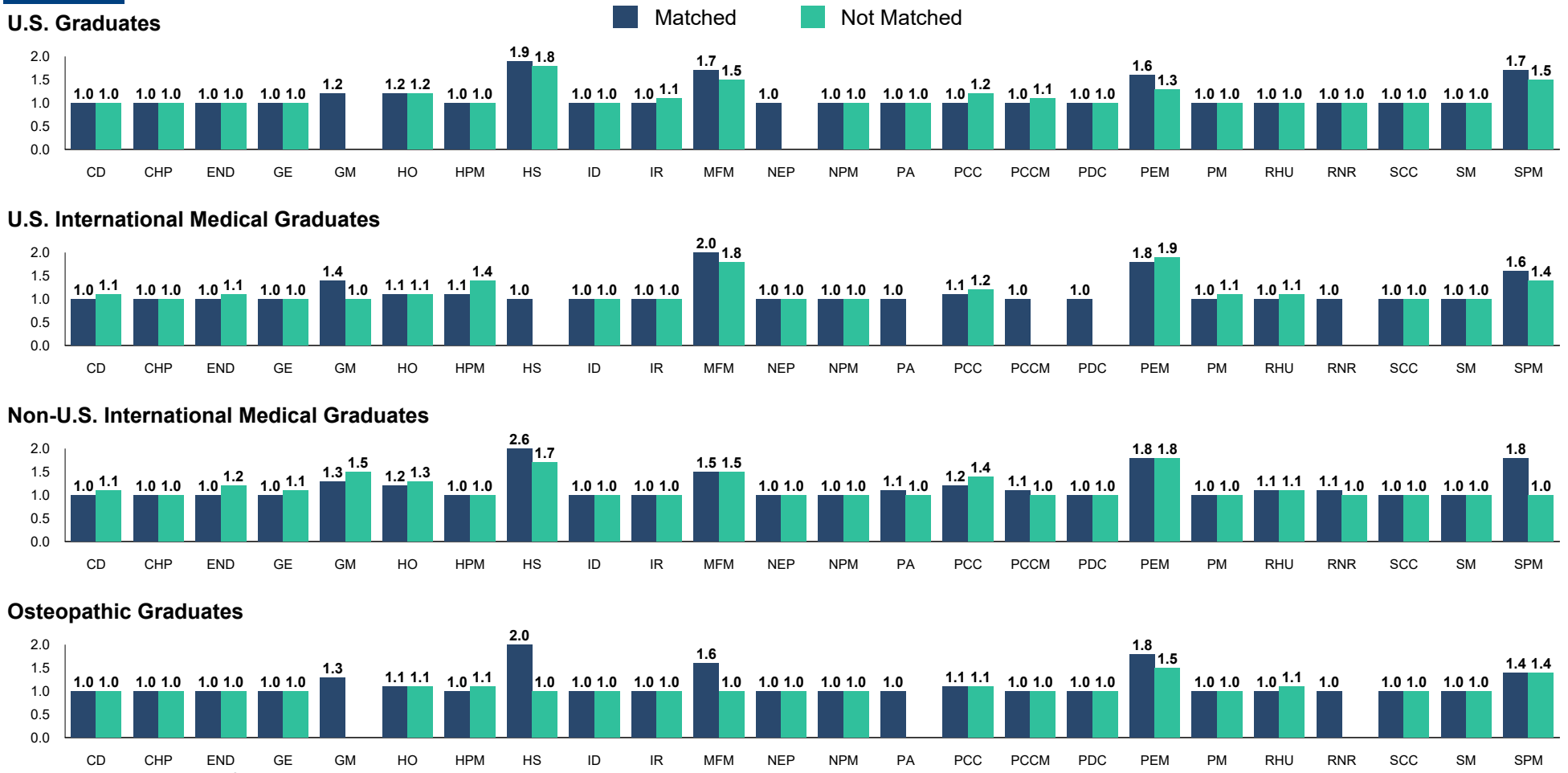
Chart 5 Mean Number of Different Specialties Ranked

by Preferred Specialty, Applicant Type, and Match Status



Source: NRMP Data Warehouse

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GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Most fellowship applicants were interested in only one specialty. However, some Matches included more than one specialty, and applicants in those Matches were able to apply to and rank multiple specialties. For example, applicants in the Medical Specialties Matching Program (MSMP) could apply to both Hematology and Hematology/Oncology. Applicants also could participate in different specialty Matches in the same year, provided the Match Schedule of Dates did not overlap. Chart 5 displays the average number of specialties ranked by applicant type, preferred specialty, and match outcome.

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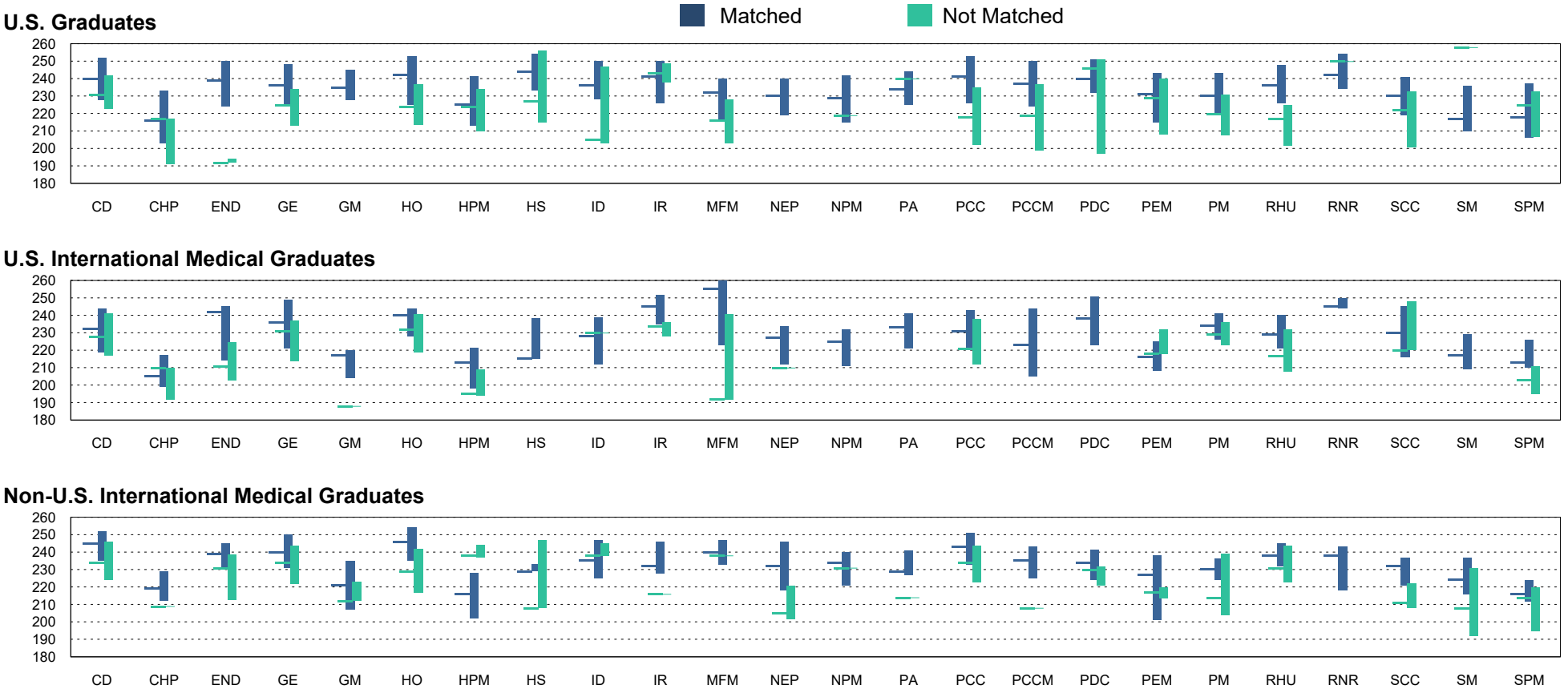
Chart 6 USMLE Step 1 Scores of Matched Applicants
by Preferred Specialty and Applicant Type



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GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Chart 6 compares USMLE Step 1 scores for matched and unmatched applicants by specialty. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges (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. Overall, matched U.S. graduates had mean USMLE Step 1 scores of 233.7 (s.d.=18.8), matched U.S. IMGs had mean scores of 227.8 (s.d.=18.8), and matched non-U.S.IMGs had mean scores 235.7 (s.d.=17.2). Data for osteopathic graduates are not presented because very few osteopathic graduates reported USMLE Step 1 scores.

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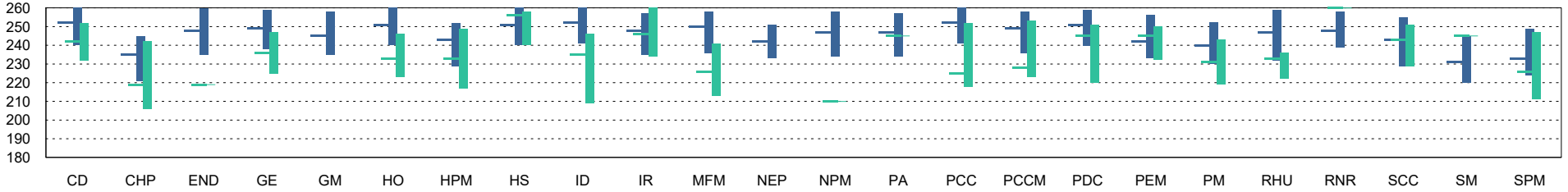
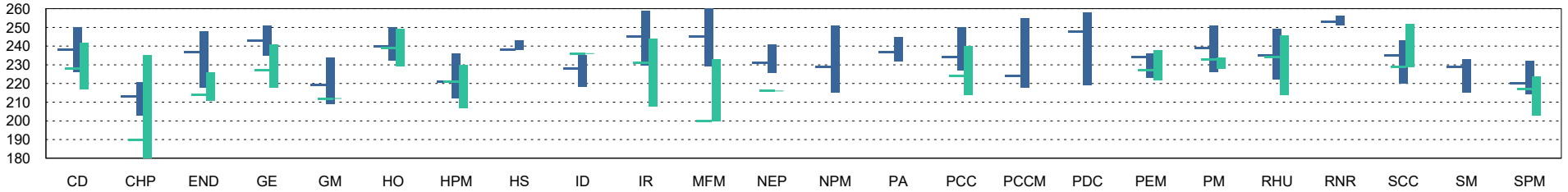
Chart 7 USMLE Step 2 CK Scores of Matched Applicants

by Preferred Specialty and Applicant Type

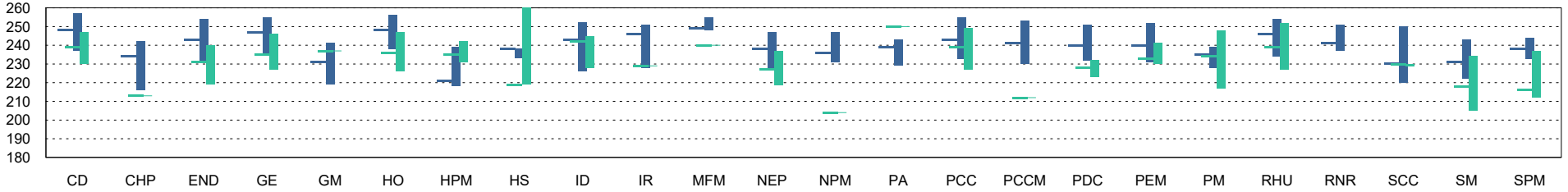
U.S. Graduates



U.S. International Medical Graduates



Non-U.S. International Medical Graduates



Source: NRMP Data Warehouse

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GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Chart 7 shows the USMLE Step 2 CK scores for matched applicants by preferred specialty. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges. As with the Step 1 scores, the more competitive specialties had higher average Step 2 CK scores. Overall, matched U.S. graduates had mean USMLE step 2 CK scores of 245.3 (s.d.=17.7) and matched U.S. IMGs and matched non-U.S. IMGs had mean scores of 234.0 (s.d.=18.0) and 241.2(s.d.=16.8), respectively. Data for osteopathic graduates are not presented because very few osteopathic graduates reported USMLE Step 2 CK scores.

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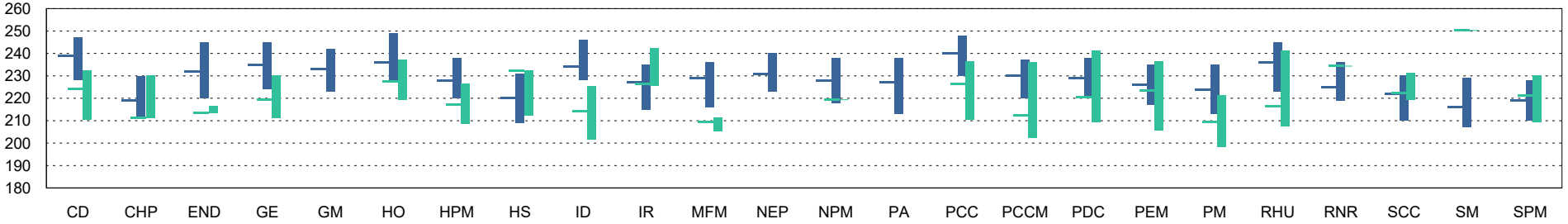
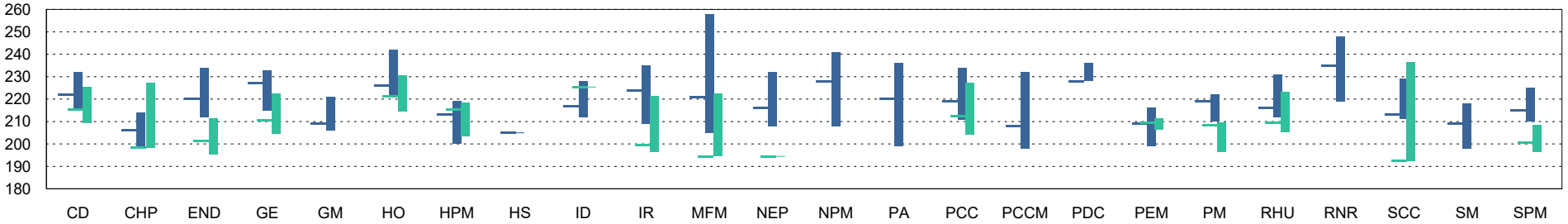
Chart 8 USMLE Step 3 Scores of Matched Applicants

by Preferred Specialty and Applicant Type

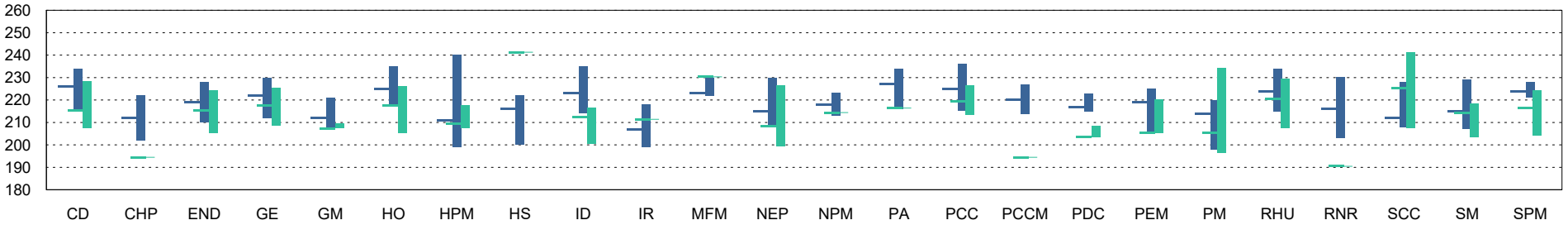
U.S. Graduates



U.S. International Medical Graduates



Non-U.S. International Medical Graduates



Source: NRMP Data Warehouse

CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
CHP	Child and Adolescent Psychiatry	HPM	Hospice and Palliative Med	NEP	Nephrology	PDC	Pediatric Cardiology	SCC	Surgical Critical Care
END	Endocrinology, Diabetes, and Metabolism	HS	Hand Surgery	NPM	Neonatal-Perinatal Medicine	PEM	Pediatric Emergency Medicine	SM	Sleep Medicine
GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Chart 8 shows the USMLE Step 3 scores for matched applicants by preferred specialty. The horizontal bars are the median values for successful applicants and the vertical lines show the interquartile ranges. Overall, matched U.S. graduates had mean USMLE step 3 scores of 228.9 (s.d.=15.9) and matched U.S. IMGs and matched non-U.S. IMGs had mean scores of 219.1 (s.d.=15.1) and 221.2 (s.d.=14.6), respectively. Data for osteopathic graduates are not presented because very few osteopathic graduates reported USMLE Step 3 scores.

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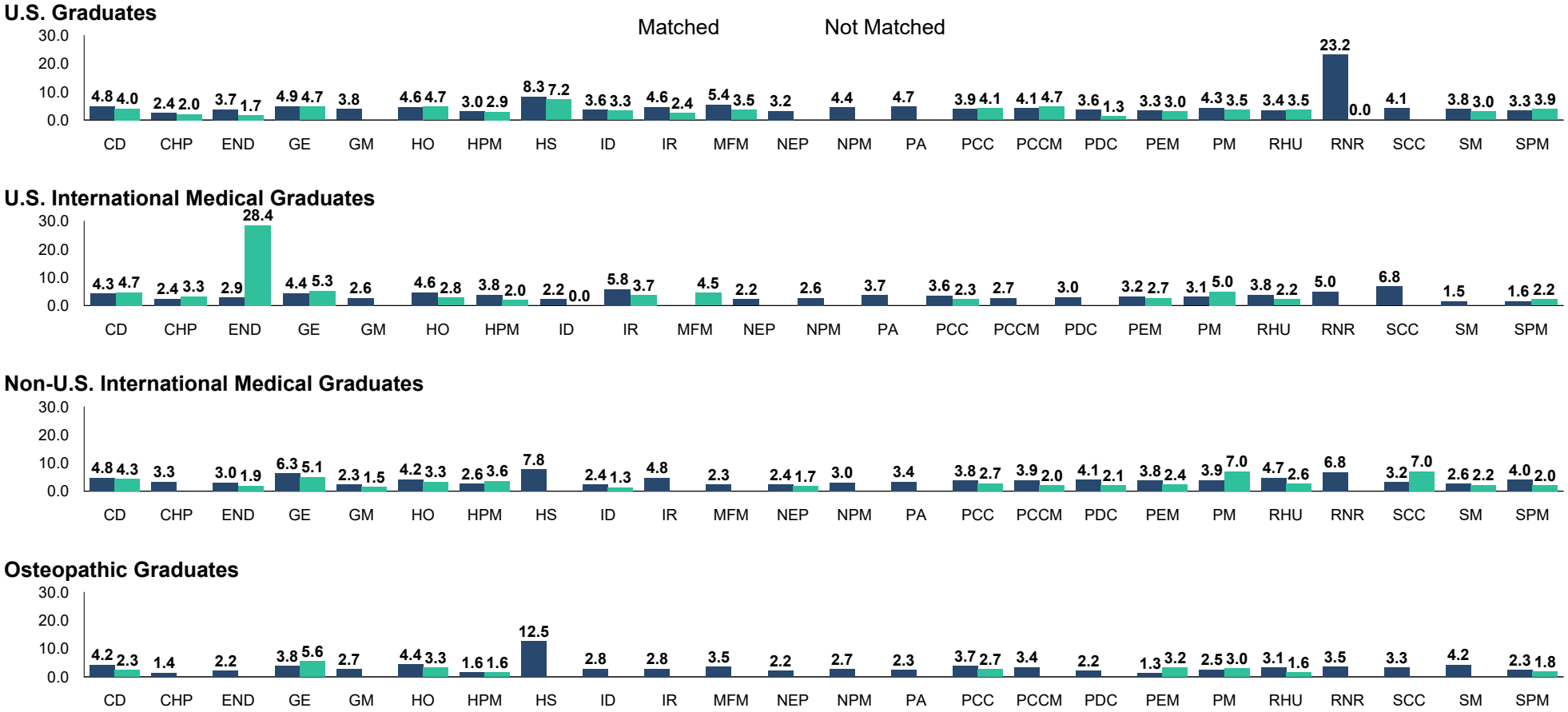
Chart 9 Mean Number of Research Experiences After Last Degree

by Preferred Specialty, Applicant Type, and Match Status



Source: NRMP Data Warehouse

CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
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GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Applicants were asked to report the number of research experiences entered in their Electronic Residency Application Service (ERAS) applications. These experiences are not verified or evaluated and may vary greatly. Chart 9 shows the average number of research experiences by applicant type, preferred specialty, and Match outcome. Matched U.S. graduates averaged 4.7 research experiences, the highest among all applicant types. Matched osteopathic applicants averaged 3.1 research experiences, the lowest among all applicant types.

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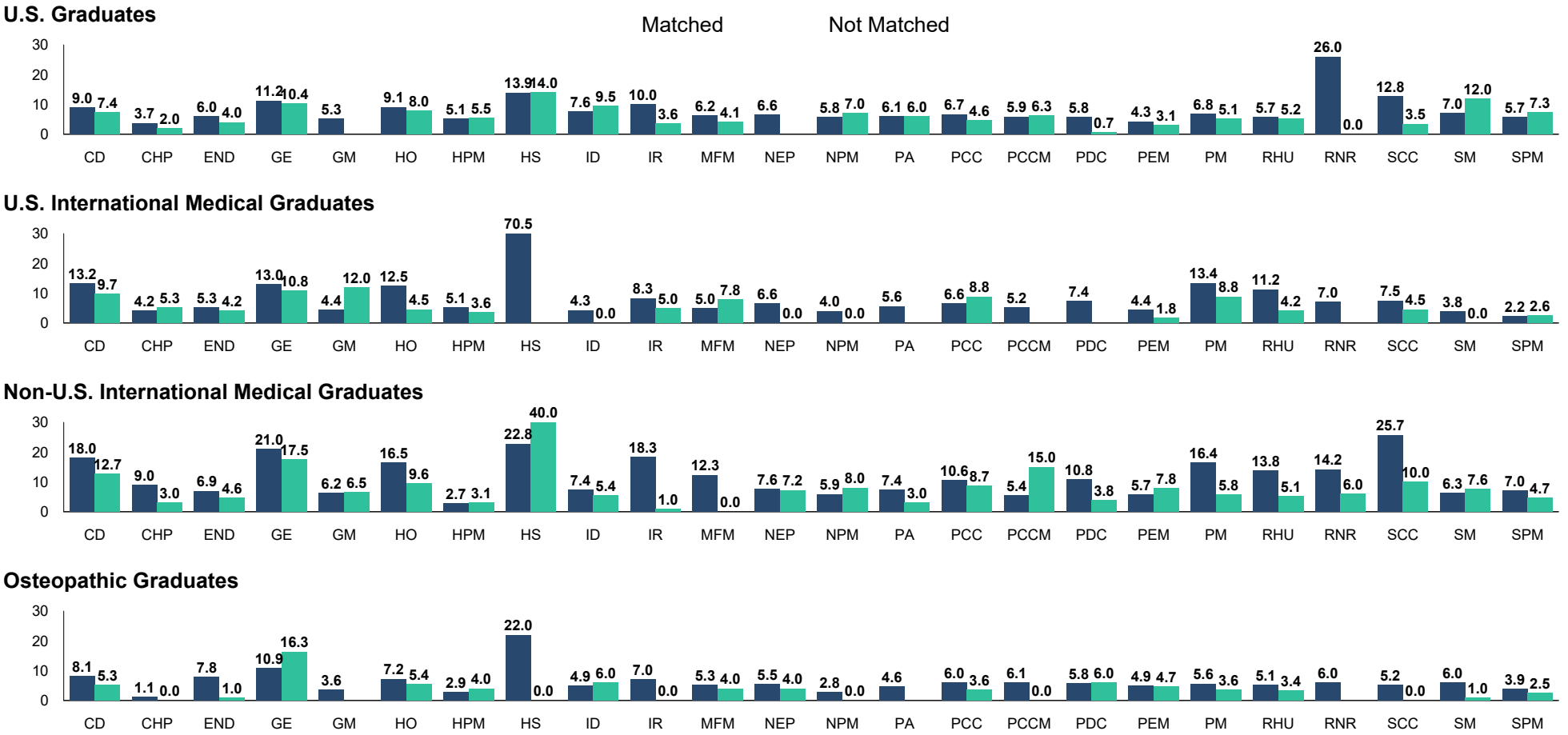
Chart 10 Mean Number of Abstracts, Presentations, and Publications After Last Degree

by Preferred Specialty, Applicant Type, and Match Status



Source: NRMP Data Warehouse

CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
CHP	Child and Adolescent Psychiatry	HPM	Hospice and Palliative Med	NEP	Nephrology	PDC	Pediatric Cardiology	SCC	Surgical Critical Care
END	Endocrinology, Diabetes, and Metabolism	HS	Hand Surgery	NPM	Neonatal-Perinatal Medicine	PEM	Pediatric Emergency Medicine	SM	Sleep Medicine
GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

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. Many applicants reported numerous abstracts, presentations, or publications, sometimes dozens or even hundreds. On average, matched non-U.S. IMGs had the highest number of abstracts, presentations, and publications at 13.5. Matched osteopathic applicants had the fewest, an average of 5.8 publications. Chart 10 shows the average number of publications by applicant type, preferred specialty, and Match outcome.

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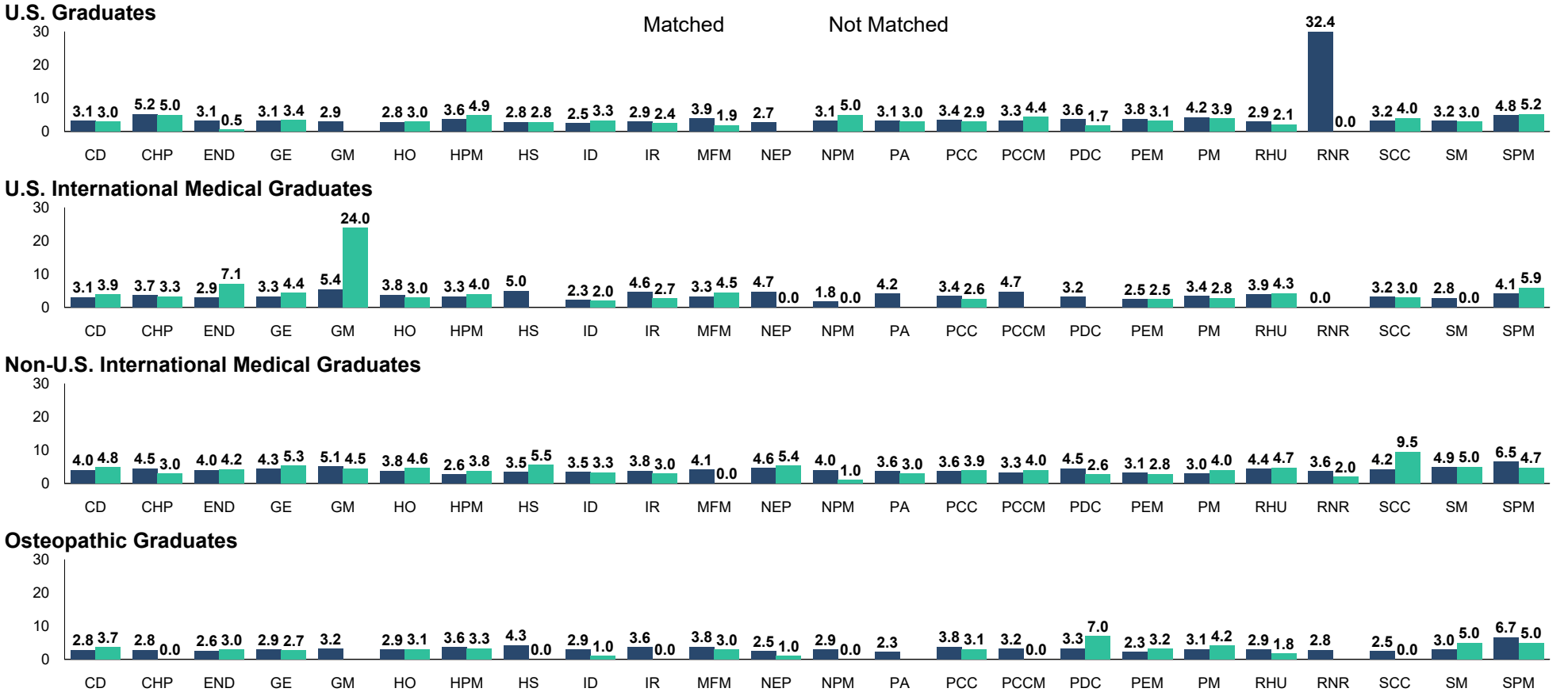
Chart 11 Mean Number of Work Experiences

by Preferred Specialty, Applicant Type, and Match Status



Source: NRMP Data Warehouse

CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
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GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Applicants were asked to list the number of work experiences they reported in their ERAS applications. Chart 11 shows the average number of work experiences by applicant type, preferred specialty, and Match outcome. Overall, matched non-U.S. IMGs had an average of 4.0 work experiences, the most among all applicant types. Matched osteopathic graduates had the fewest, an average of 3.4 work experiences.

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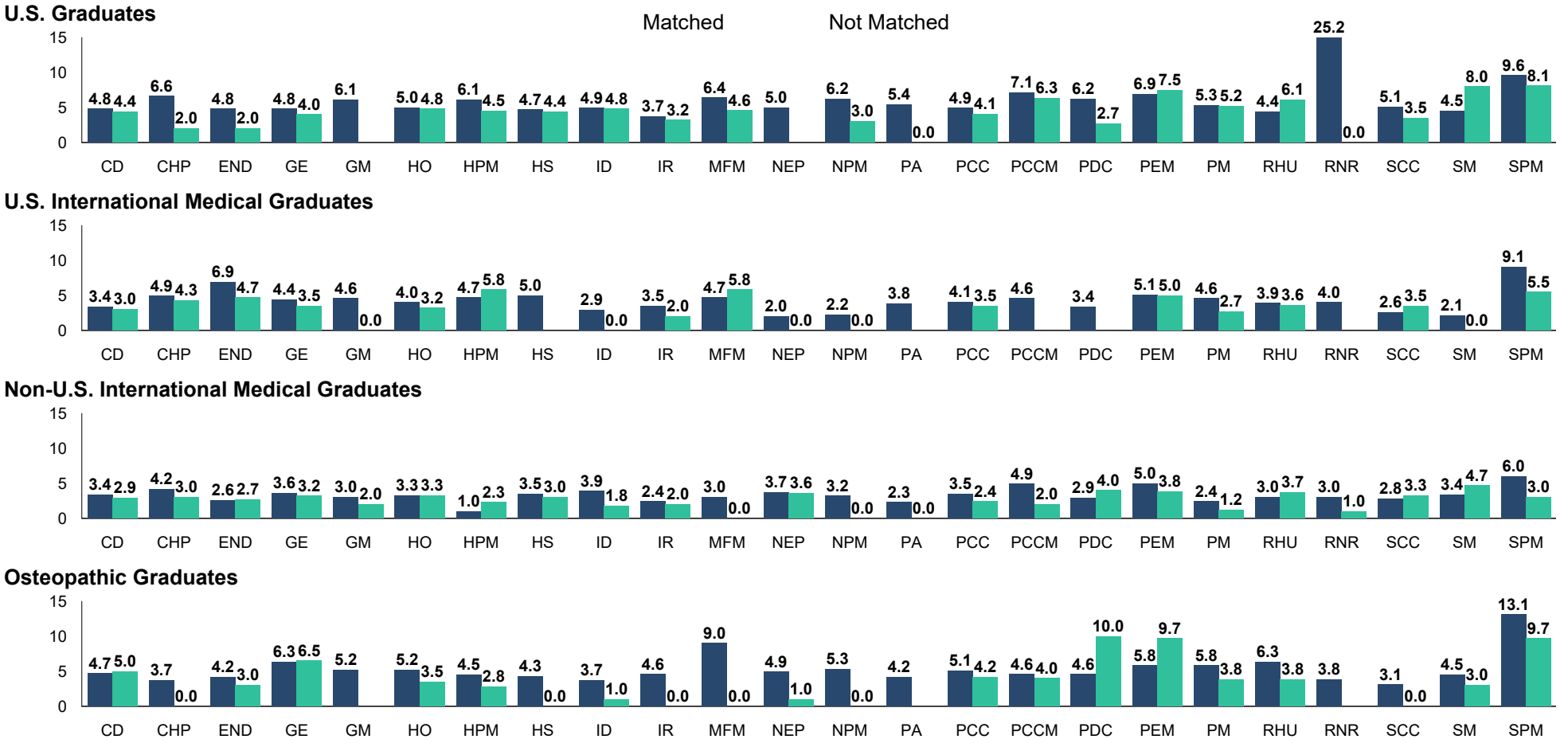
Chart 12 Mean Number of Volunteer Experiences

by Preferred Specialty, Applicant Type, and Match Status



Source: NRMP Data Warehouse

CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
CHP	Child and Adolescent Psychiatry	HPM	Hospice and Palliative Med	NEP	Nephrology	PDC	Pediatric Cardiology	SCC	Surgical Critical Care
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GE	Gastroenterology	ID	Infectious Disease	PA	Pediatric Anesthesiology	PM	Pain Medicine	SPM	Sports Medicine
GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Applicants were asked to list the number of volunteer experiences they reported in their ERAS applications. Chart 12 provides the average number of volunteer experiences by applicant type, preferred specialty, and Match outcome. On average, matched U.S. graduates had a high of 5.8 volunteer experiences and matched osteopathic applicants had 5.7. Matched non-U.S. IMGs had the least volunteer experience, an average of 3.3.

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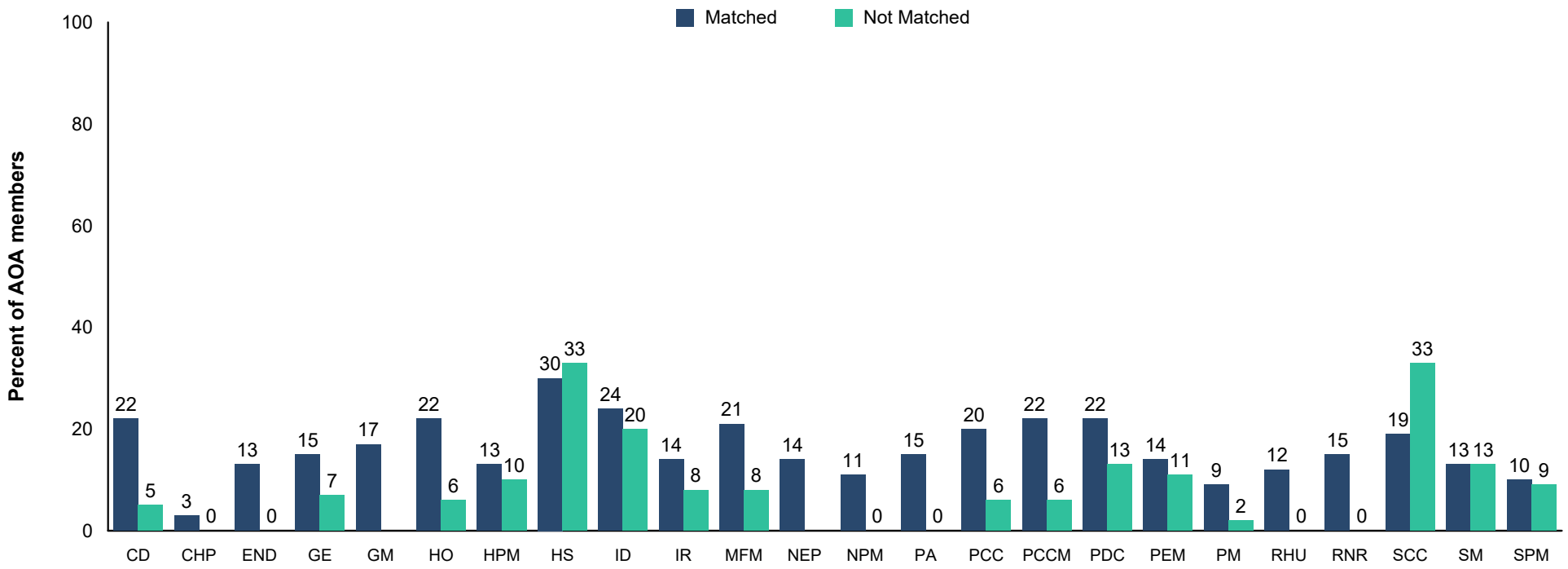
Chart 13

Percentage of U.S. Graduates Who are Members of AOA

by Preferred Specialty and Match Status



Source: NRMP Data Warehouse

CD	Cardiovascular Disease	HO	Hematology and Oncology	MFM	Maternal-Fetal Medicine	PCCM	Pediatric Critical Care Medicine	RNR	Neuroradiology
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GM	Geriatric Medicine	IR	Interventional Radiology	PCC	Pulmonary Disease and Critical Care Med	RHU	Rheumatology		

Membership in Alpha Omega Alpha (AOA), the national medical honor 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. Only graduate U.S. physicians, Canadians, and a small number of others could legitimately claim membership. For that reason, AOA status for each specialty in Chart 13 is reported only for U.S. graduates.

Data on AOA membership are self-reported. Even for U.S. graduates, however, an analysis of its relationship with success in the Match is limited by the relatively small number of applicants who are members and by the fact that some schools do not have AOA chapters. Overall, 15.7 percent of U.S. graduates included in this report claimed AOA membership. Among applicants who matched to their preferred specialty, 16.7 percent reported AOA membership, compared to 7.5 percent of unmatched applicants.

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Cardiovascular Disease

Table-1 Summary Statistics
Cardiovascular Disease

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=514)	Unmatched (n=56)	Matched (n=91)	Unmatched (n=88)	Matched (n=233)	Unmatched (n=198)	Matched (n=47)	Unmatched (n=29)
1.	Mean number of contiguous ranks	9.0	5.5	6.1	2.4	7.6	3.1	6.1	2.9
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.1	1.0	1.1	1.0	1.0
3.	Mean USMLE Step 1 score	239	231	231	228	243	234	n/a	n/a
4.	Mean USMLE Step 2 score	249	239	238	229	246	237	n/a	n/a
5.	Mean USMLE Step 3 score	237	223	223	217	226	217	n/a	n/a
6.	Mean number of research experiences	4.8	4.0	4.3	4.7	4.8	4.3	4.2	2.3
7.	Mean number of abstracts, presentations, and publications	9.0	7.4	13.2	9.7	18.0	12.7	8.1	5.3
8.	Mean number of work experiences	3.1	3.0	3.1	3.9	4.0	4.8	2.8	3.7
9.	Mean number of volunteer experiences	4.8	4.4	3.4	3.0	3.4	2.9	4.7	5.0
10.	Percentage who are AOA members	21.6	5.4	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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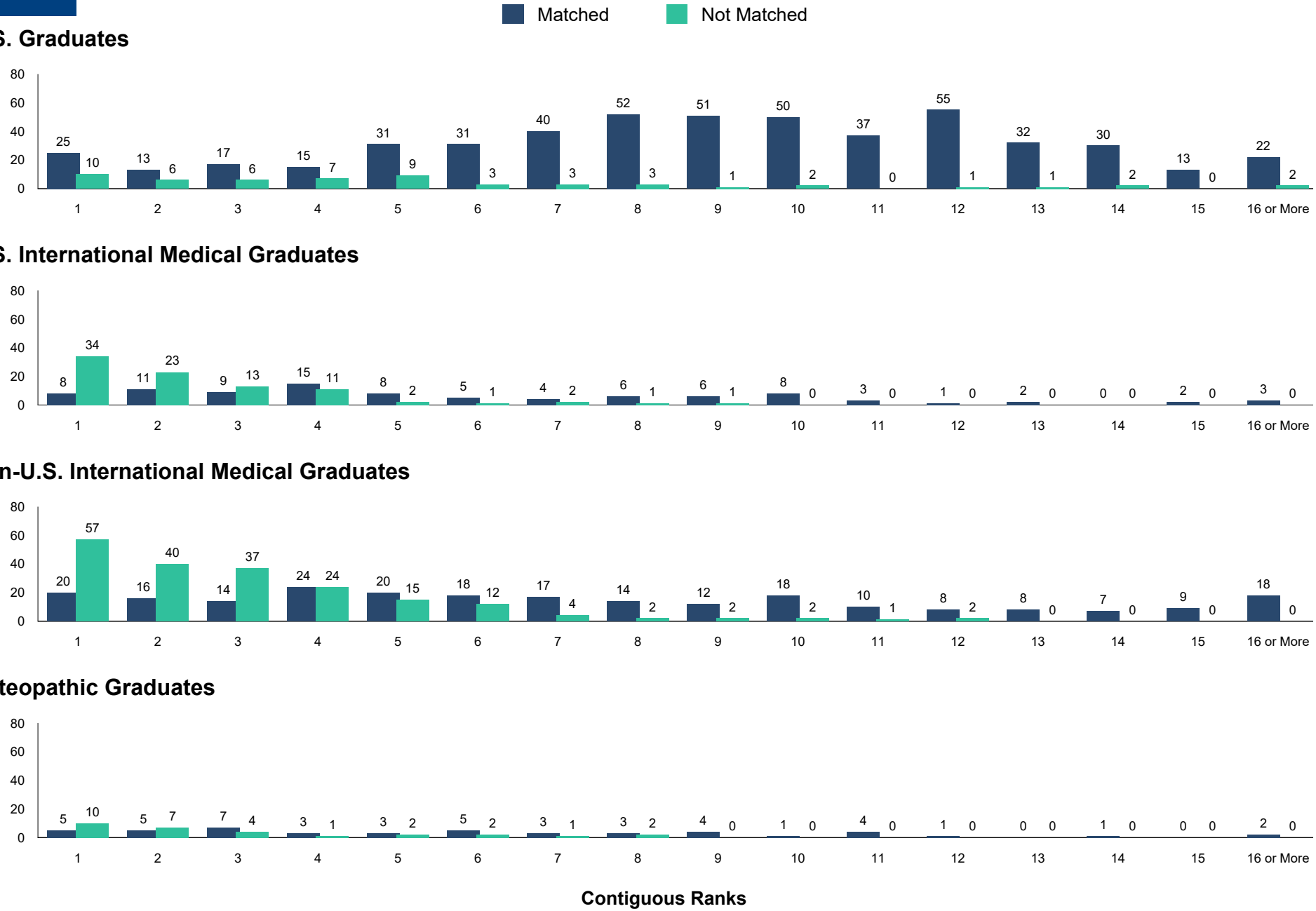
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Cardiovascular Disease



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Cardiovascular Disease

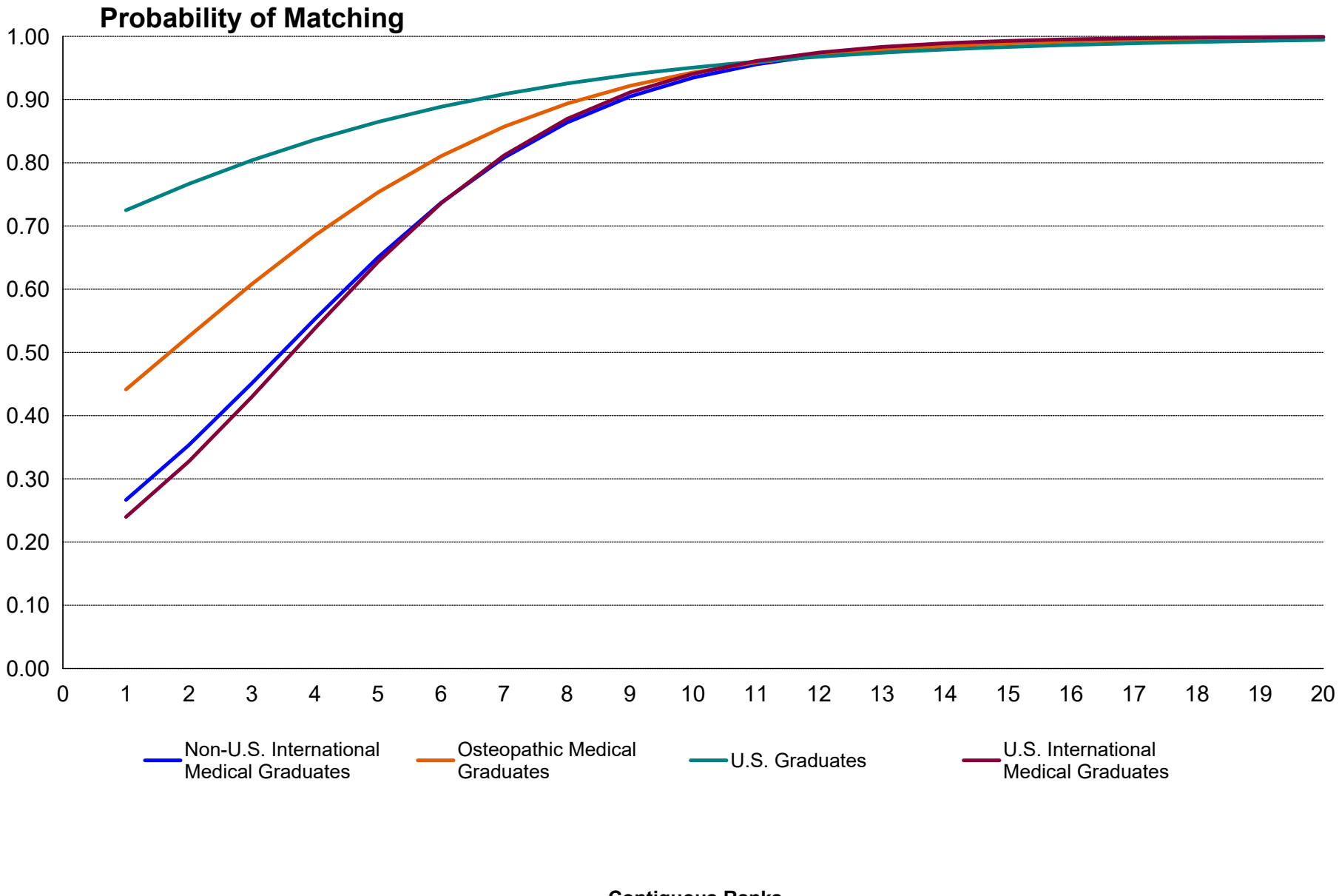

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Chart-2 Number of Distinct Specialties Ranked

Cardiovascular Disease

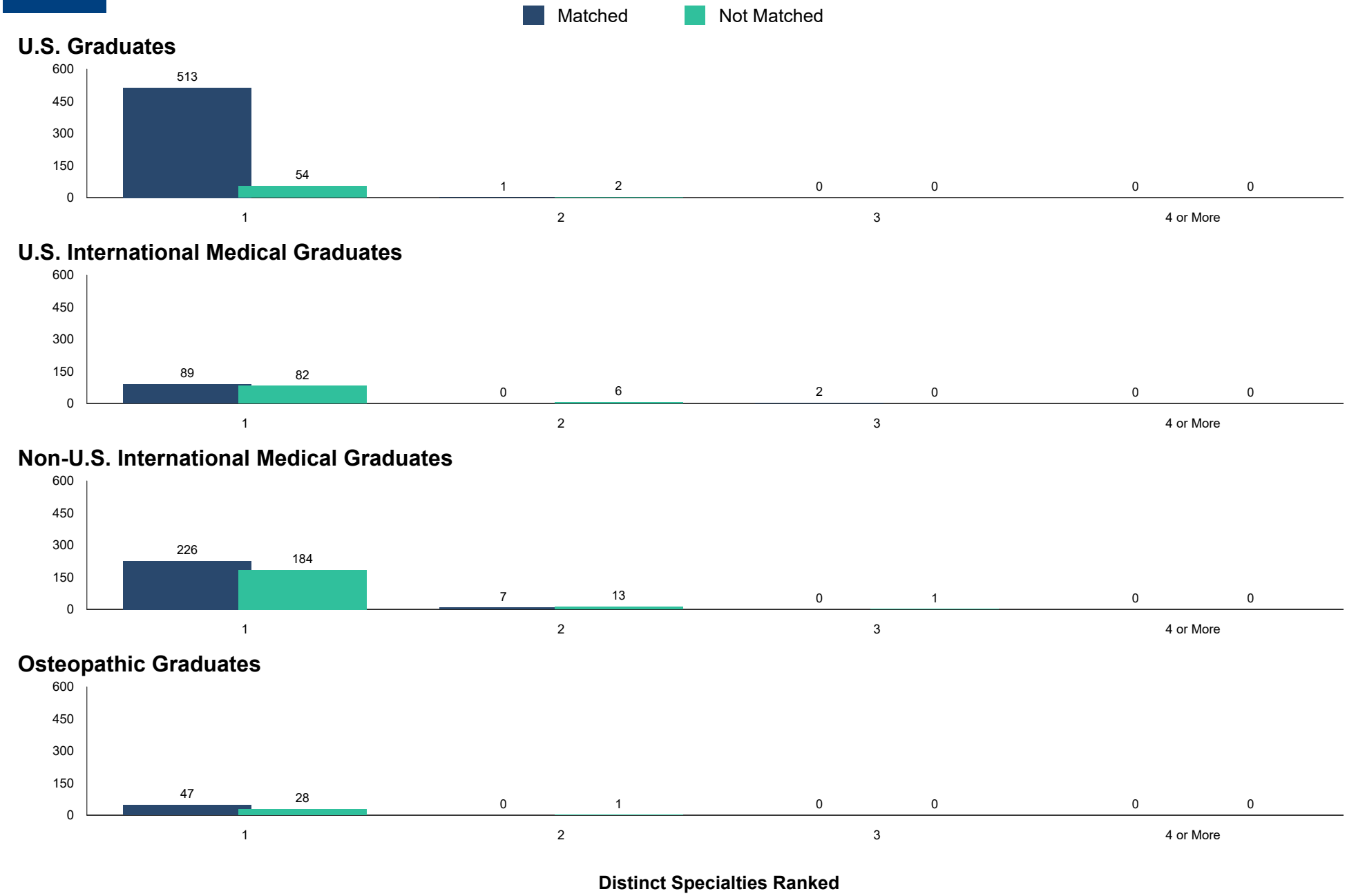

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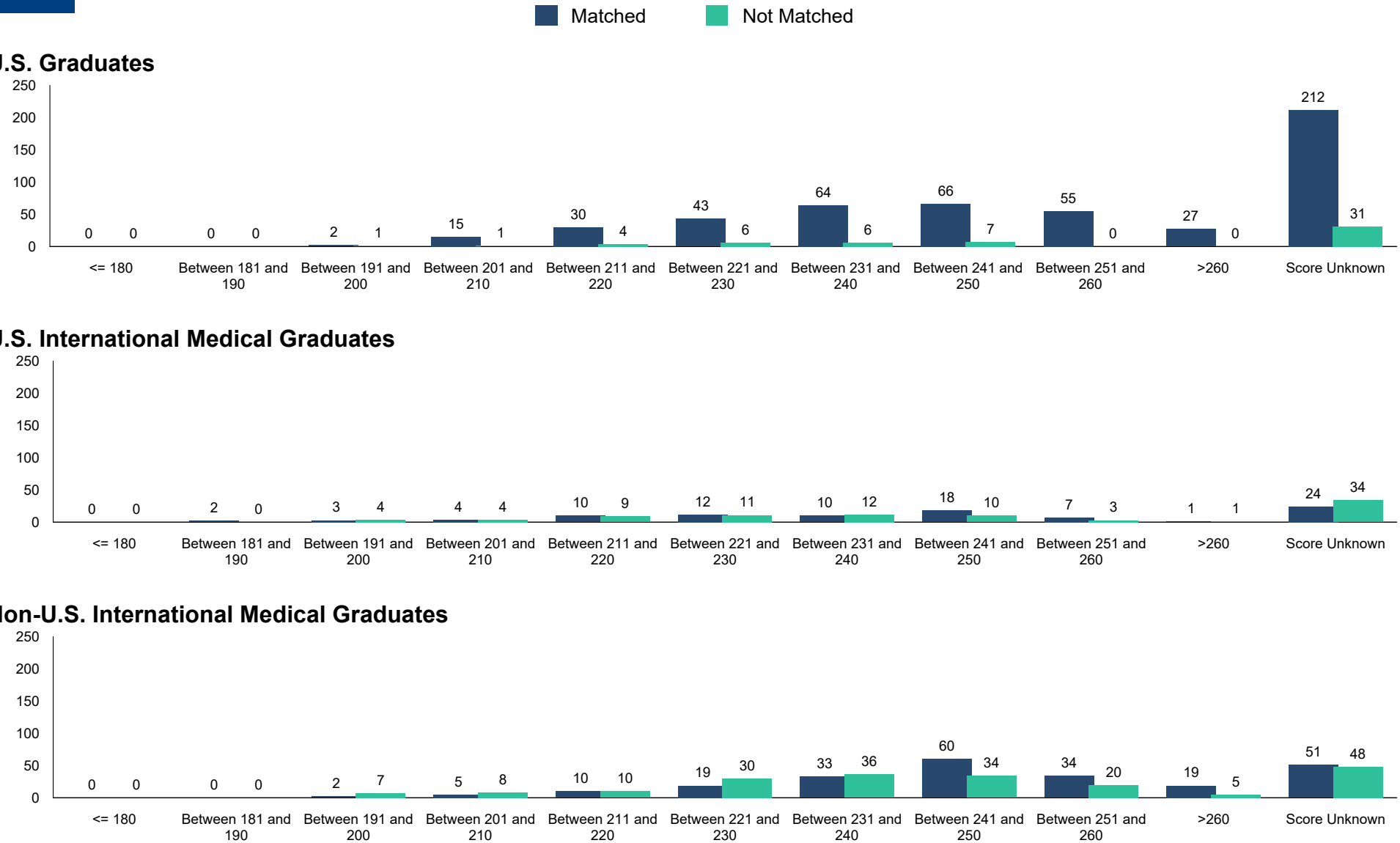
Chart-3 USMLE Step 1 Scores
Cardiovascular Disease



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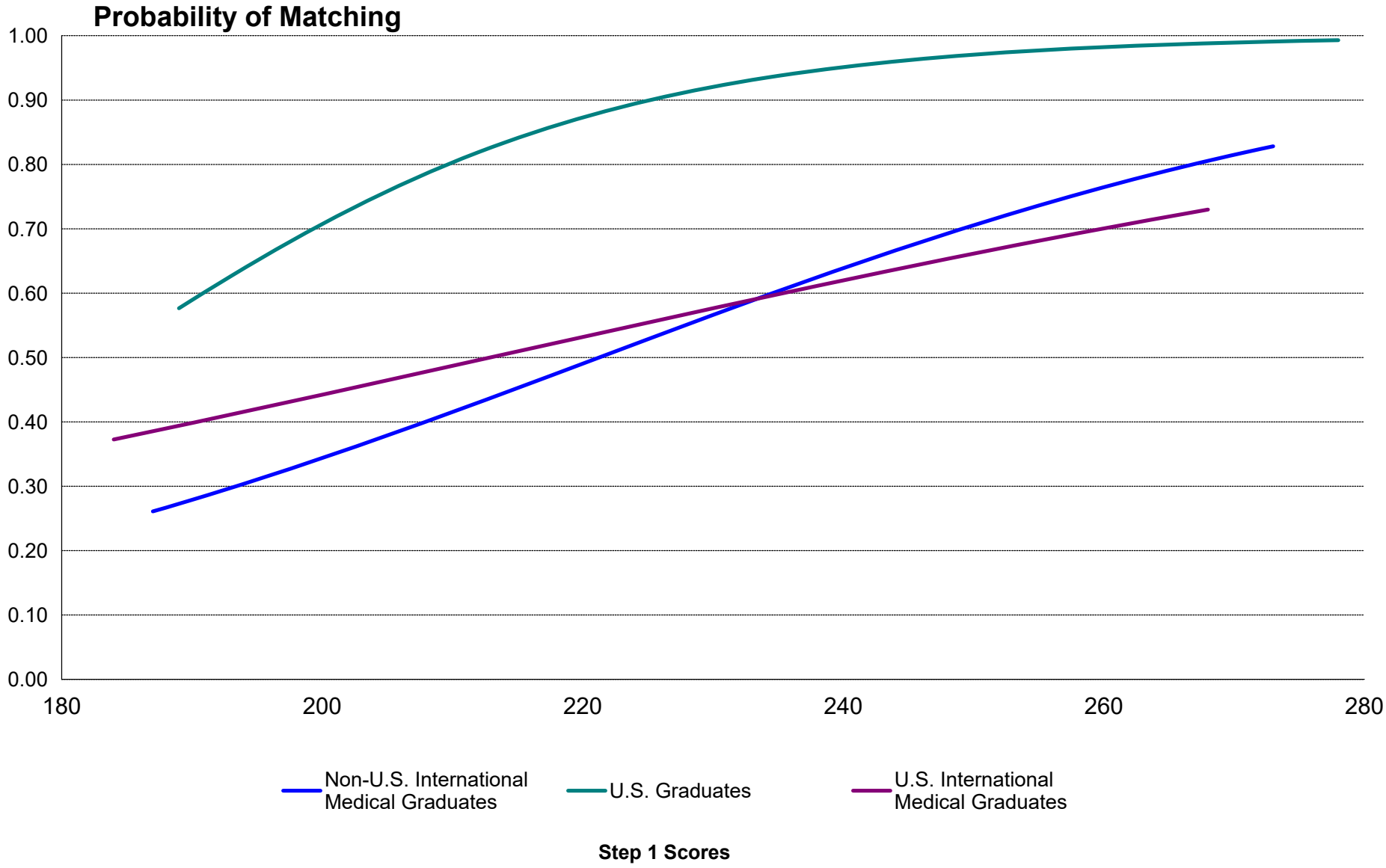
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Cardiovascular Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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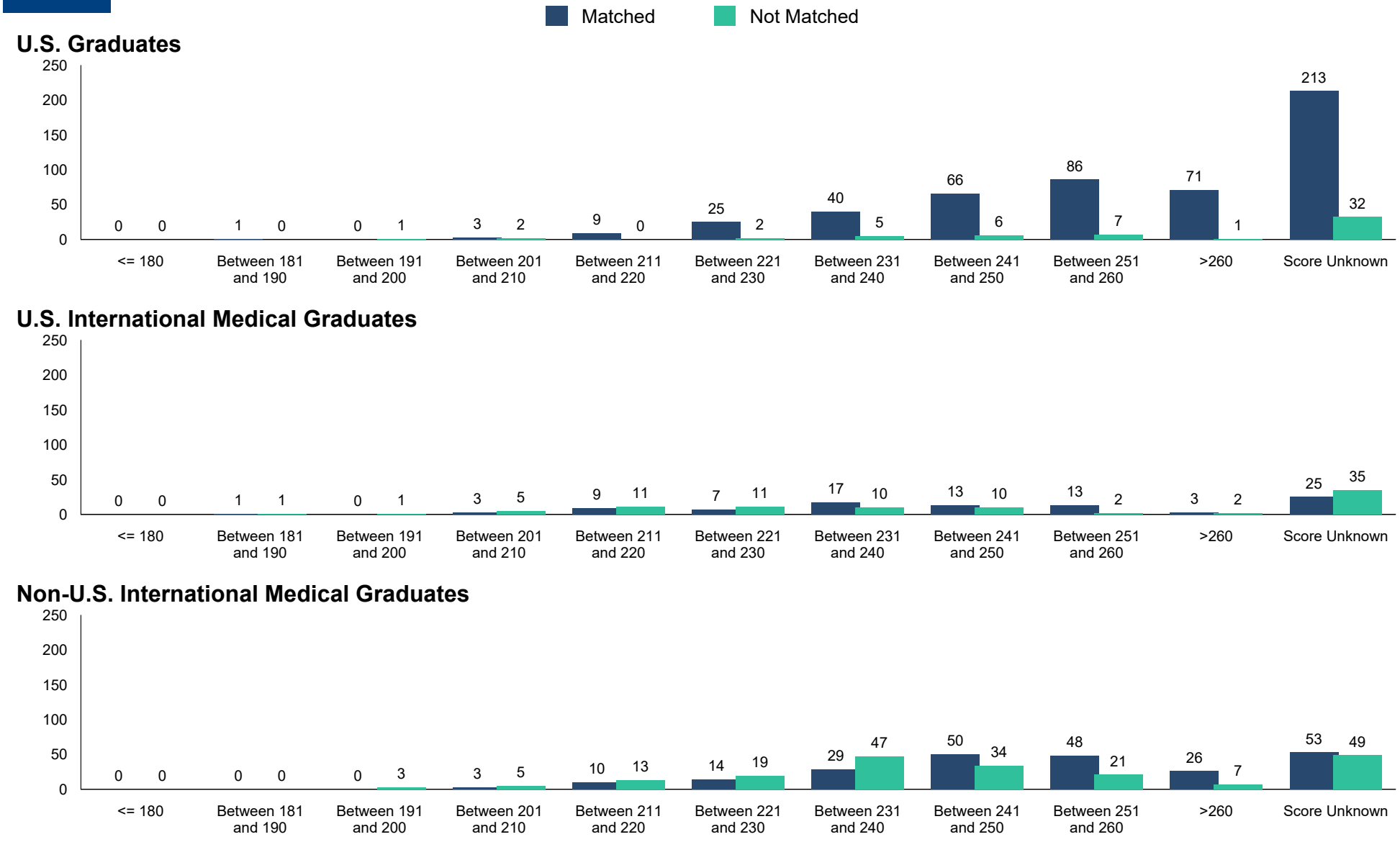
Chart-4 USMLE Step 2 Scores

Cardiovascular Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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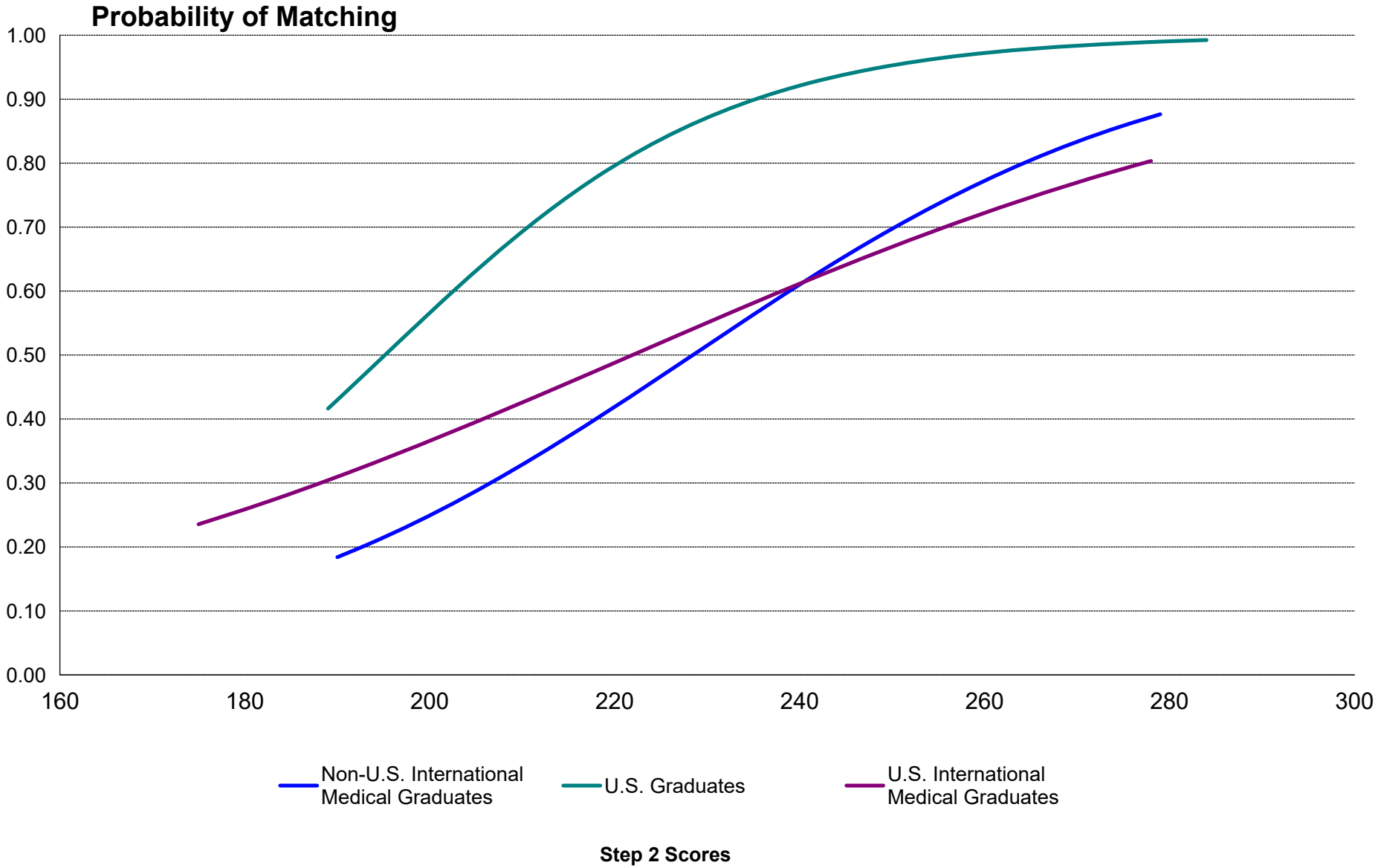
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Cardiovascular Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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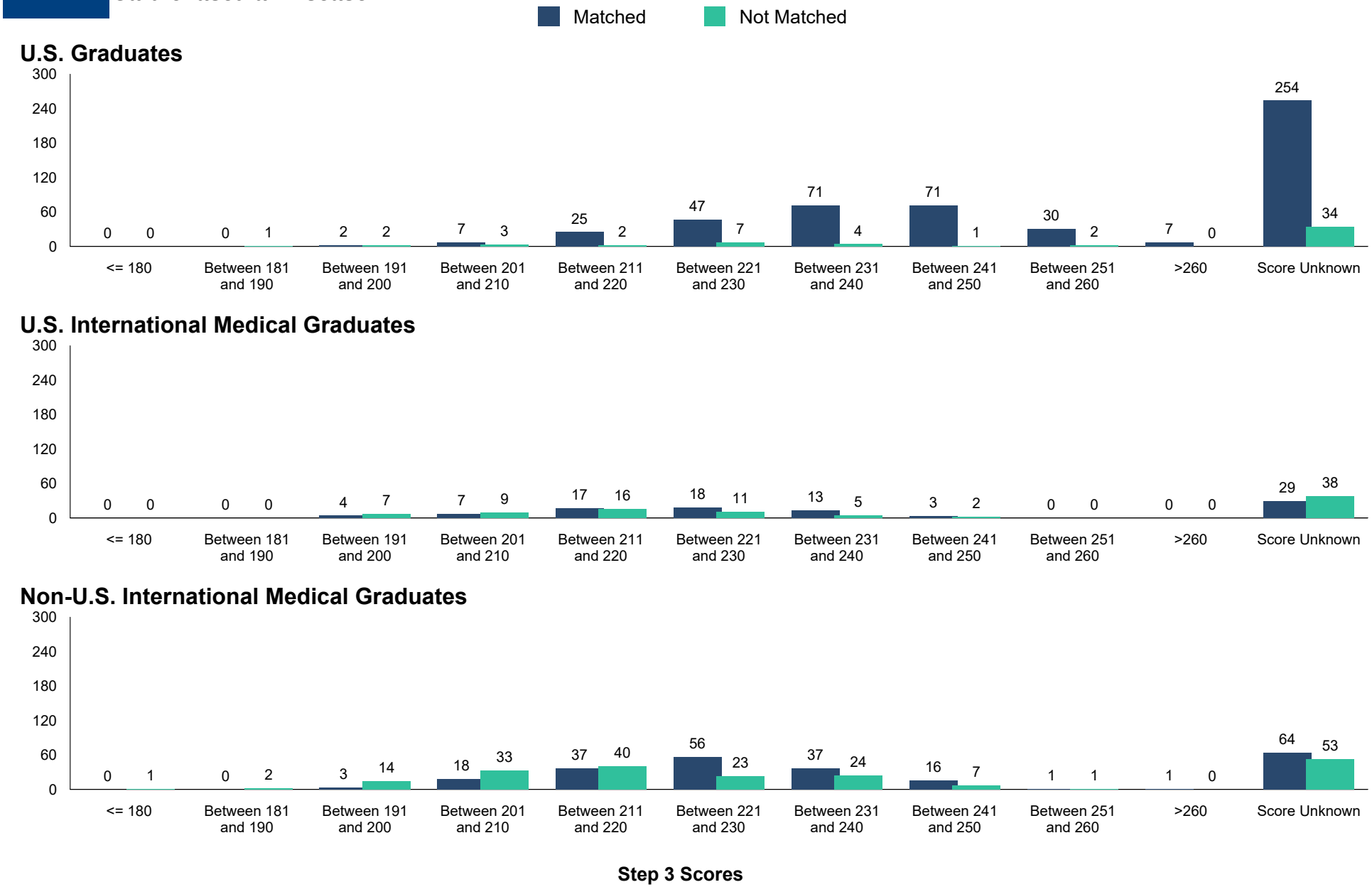
Chart-5 USMLE Step 3 Scores
Cardiovascular Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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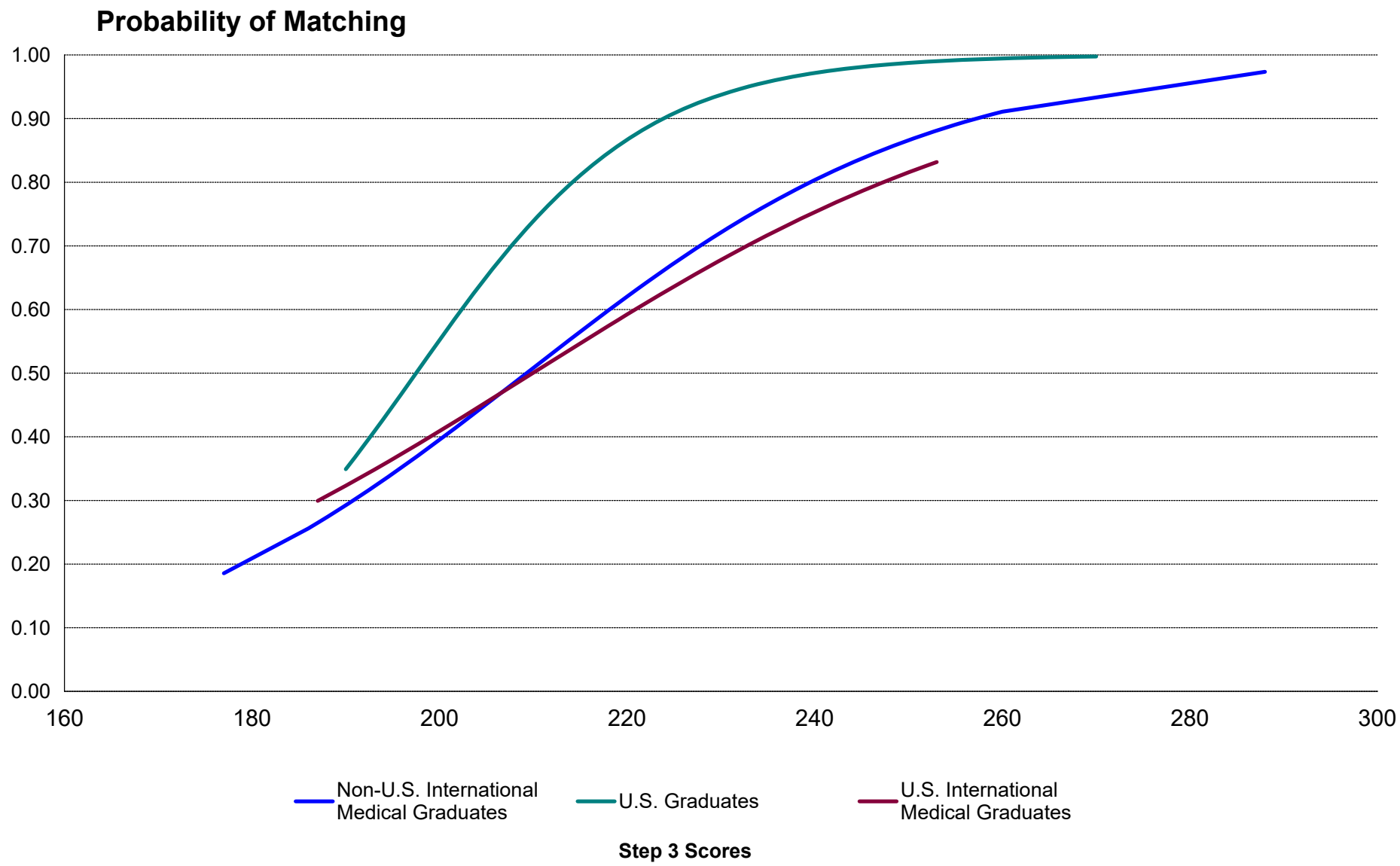
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Cardiovascular Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Cardiovascular Disease

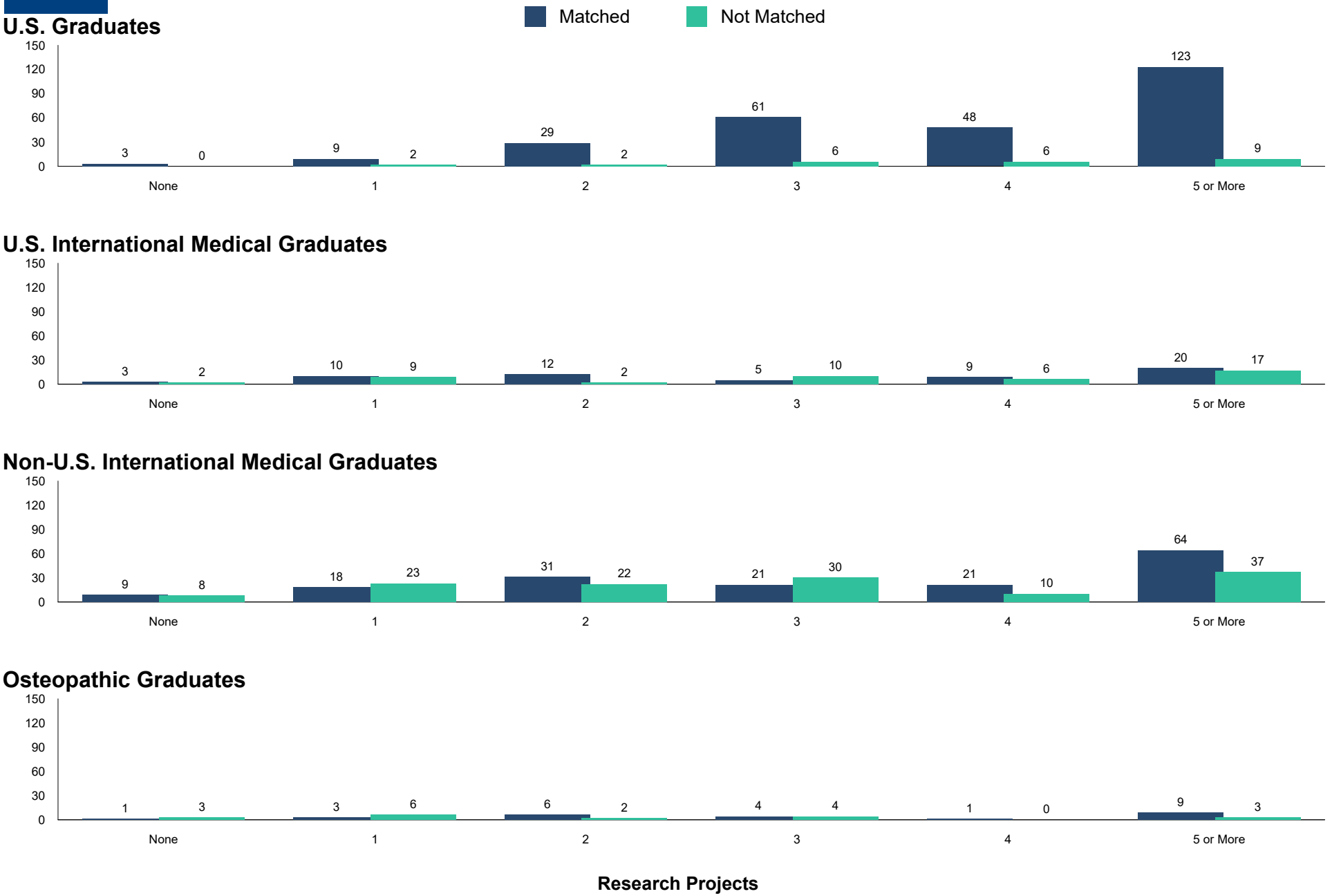

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Chart-7 Number of Abstracts, Presentations, and Publications

Cardiovascular Disease

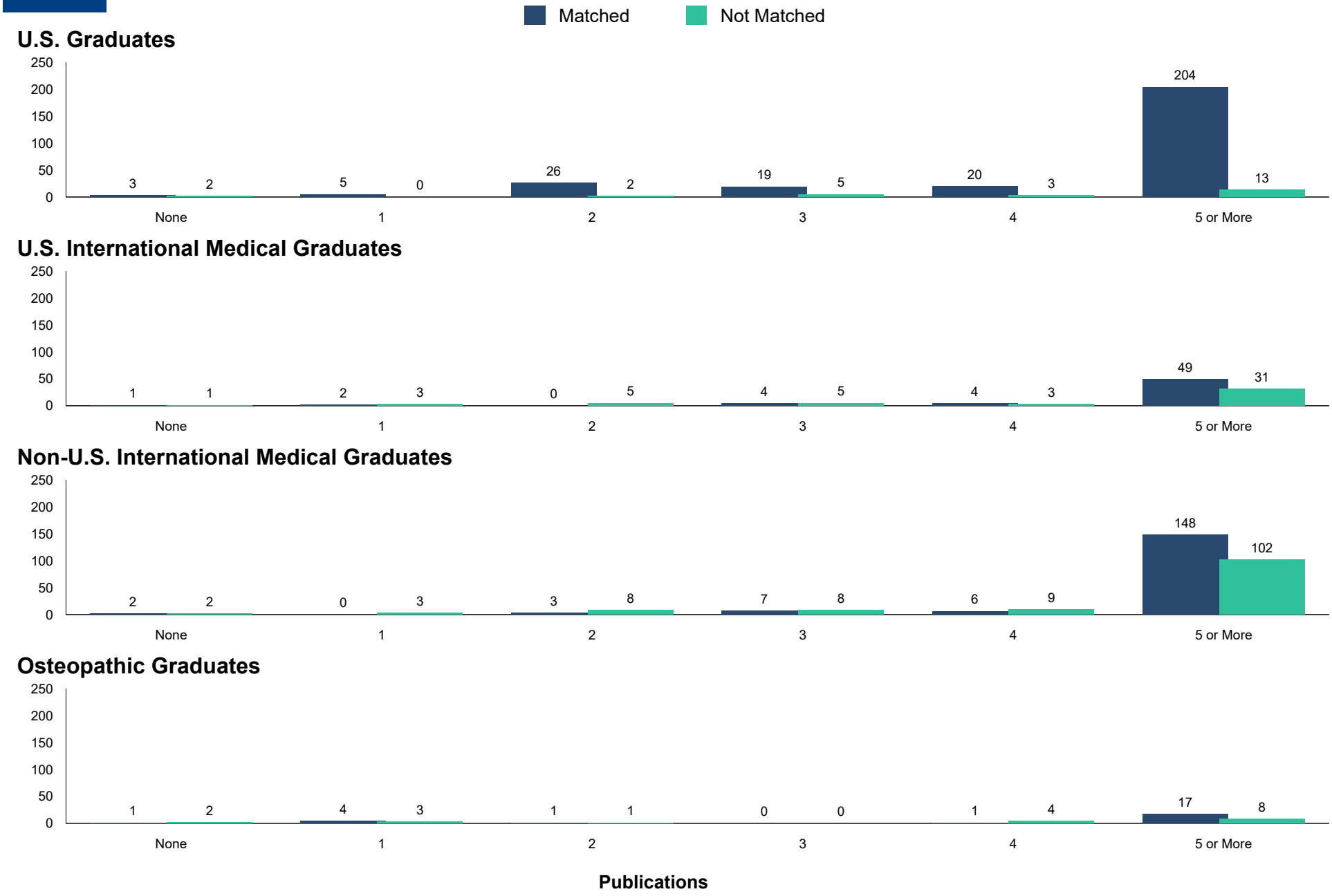

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Chart-8 Number of Work Experiences

Cardiovascular Disease

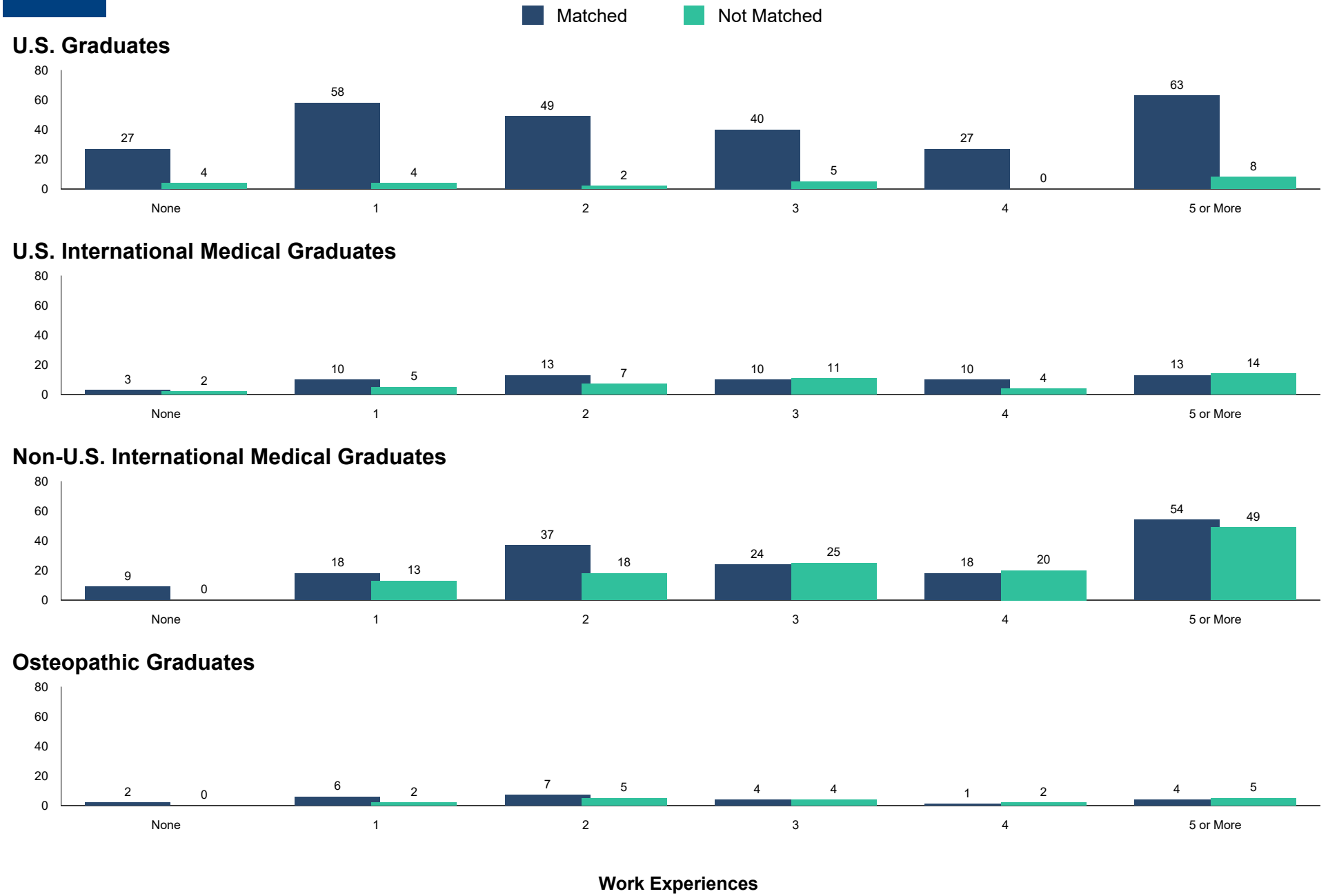

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Chart-9 Number of Volunteer Experiences

Cardiovascular Disease

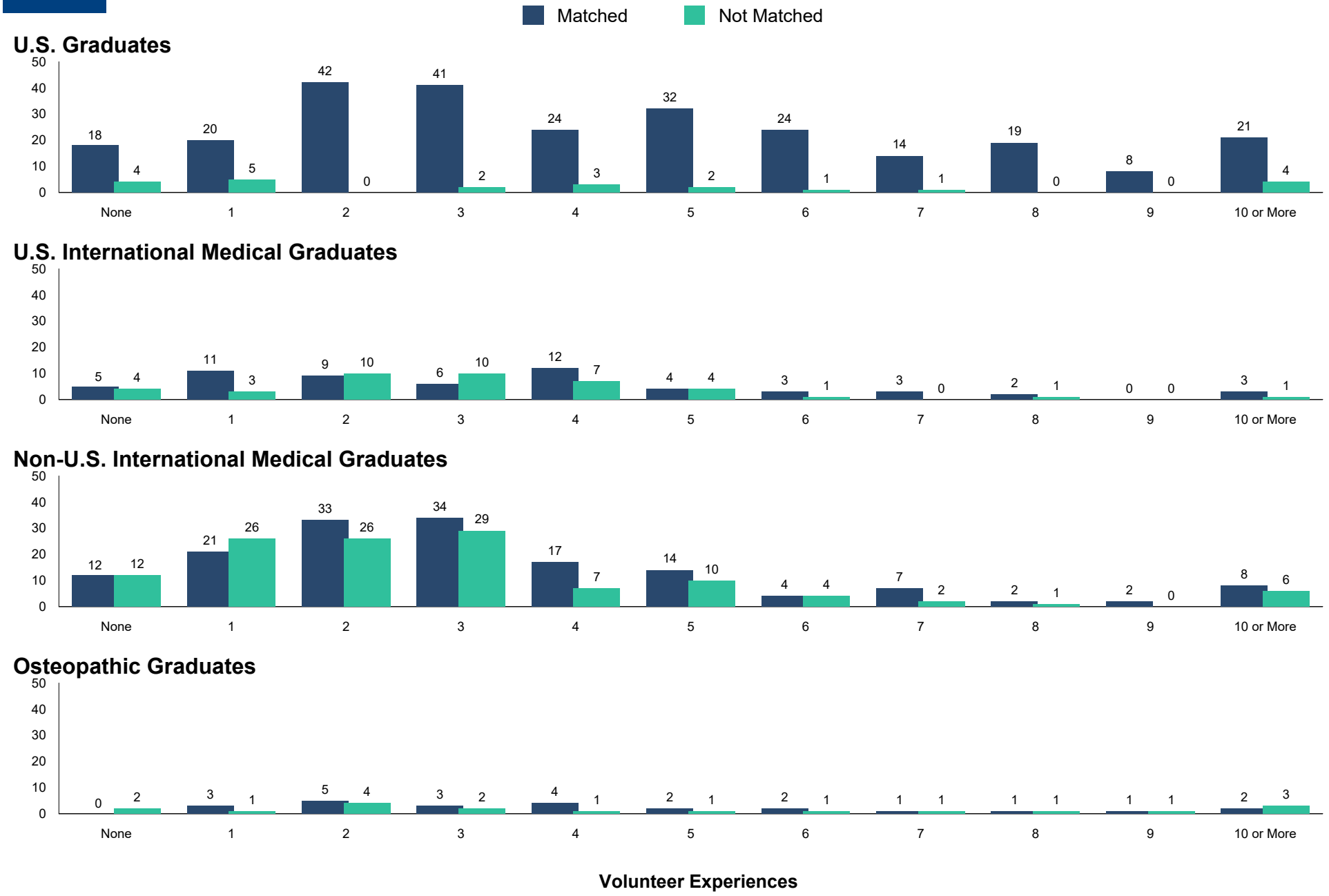

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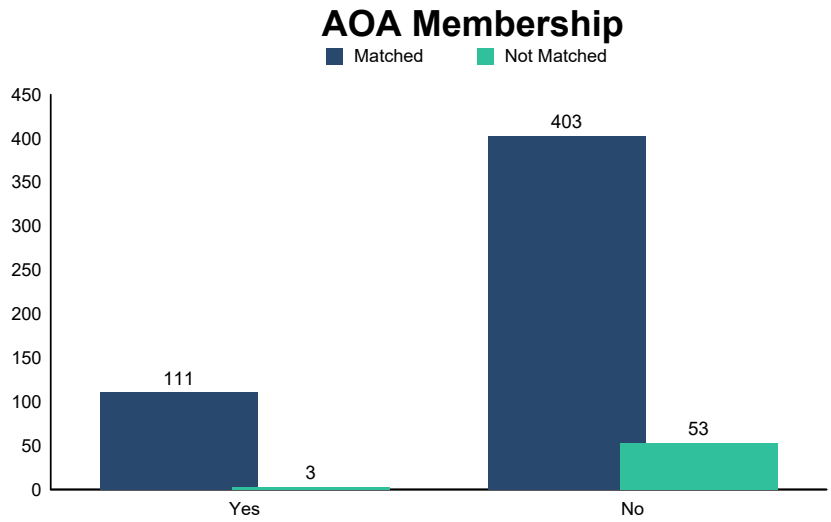
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Cardiovascular Disease



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Child and Adolescent Psychiatry

Table-1 Summary Statistics
Child and Adolescent Psychiatry

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=138)	Unmatched (n=5)	Matched (n=52)	Unmatched (n=5)	Matched (n=35)	Unmatched (n=3)	Matched (n=41)	Unmatched (n=2)
1.	Mean number of contiguous ranks	5.2	2.8	6.4	3.0	7.3	1.3	5.5	3.5
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	217	208	207	204	218	209	n/a	n/a
4.	Mean USMLE Step 2 score	233	222	212	200	230	213	n/a	n/a
5.	Mean USMLE Step 3 score	220	221	206	213	211	194	n/a	n/a
6.	Mean number of research experiences	2.4	2.0	2.4	3.3	3.3	3.0	1.4	n/a
7.	Mean number of abstracts, presentations, and publications	3.7	2.0	4.2	5.3	9.0	3.0	1.1	n/a
8.	Mean number of work experiences	5.2	5.0	3.7	3.3	4.5	3.0	2.8	n/a
9.	Mean number of volunteer experiences	6.6	2.0	4.9	4.3	4.2	3.0	3.7	n/a
10.	Percentage who are AOA members	2.9	0.0	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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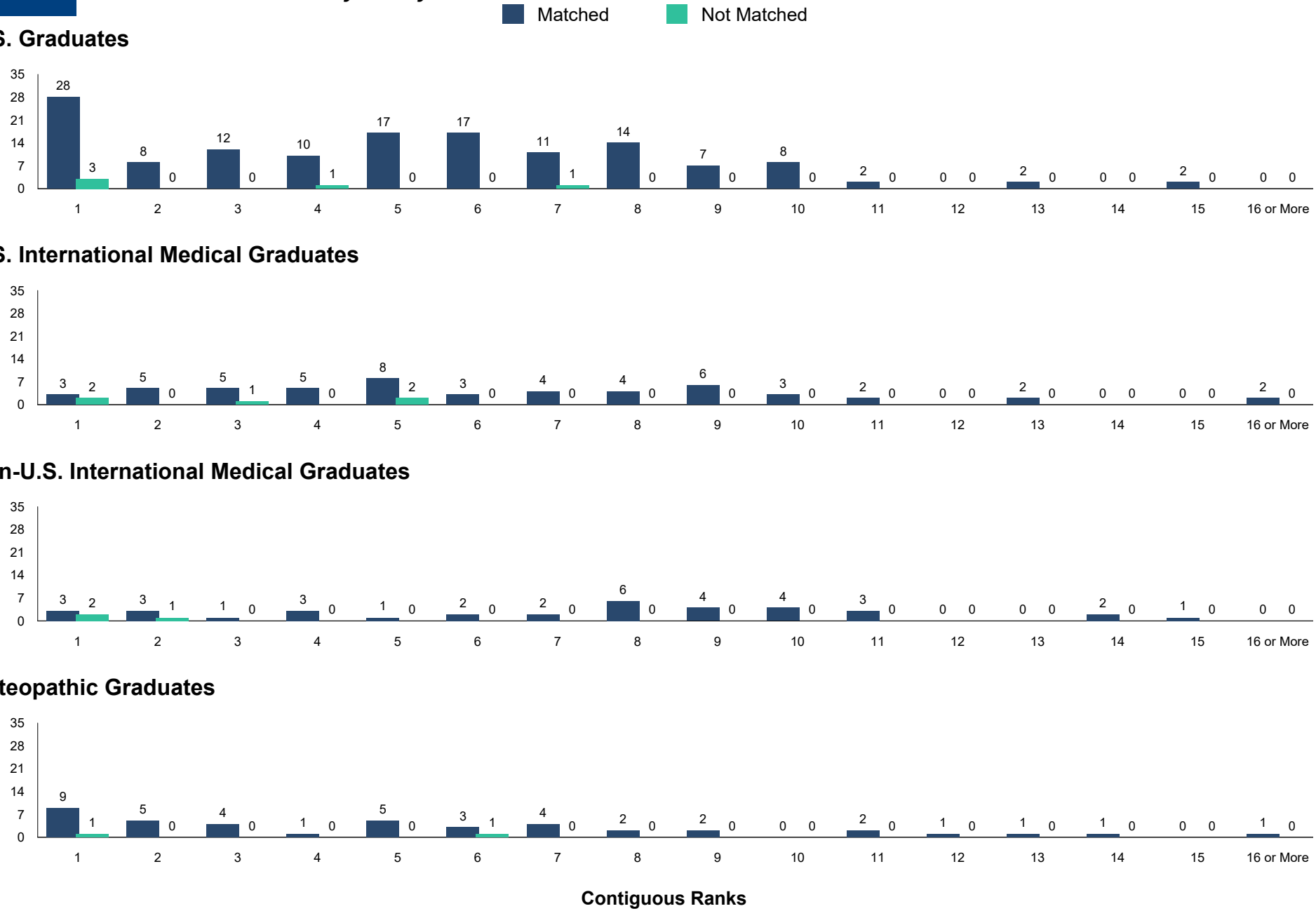
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Child and Adolescent Psychiatry



Source: NRMP Data Warehouse

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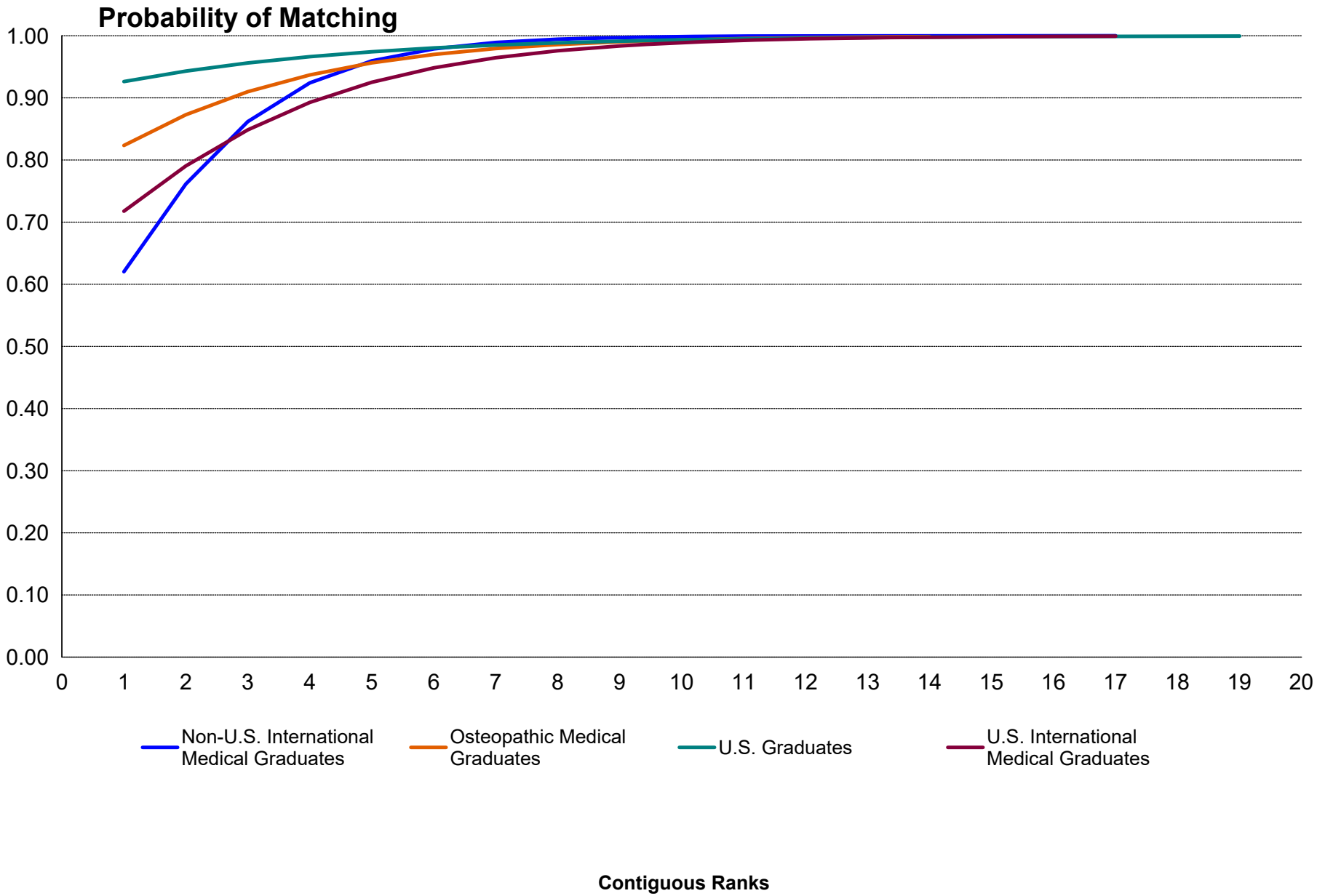
Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Child and Adolescent Psychiatry



Source: NRMP Data Warehouse.

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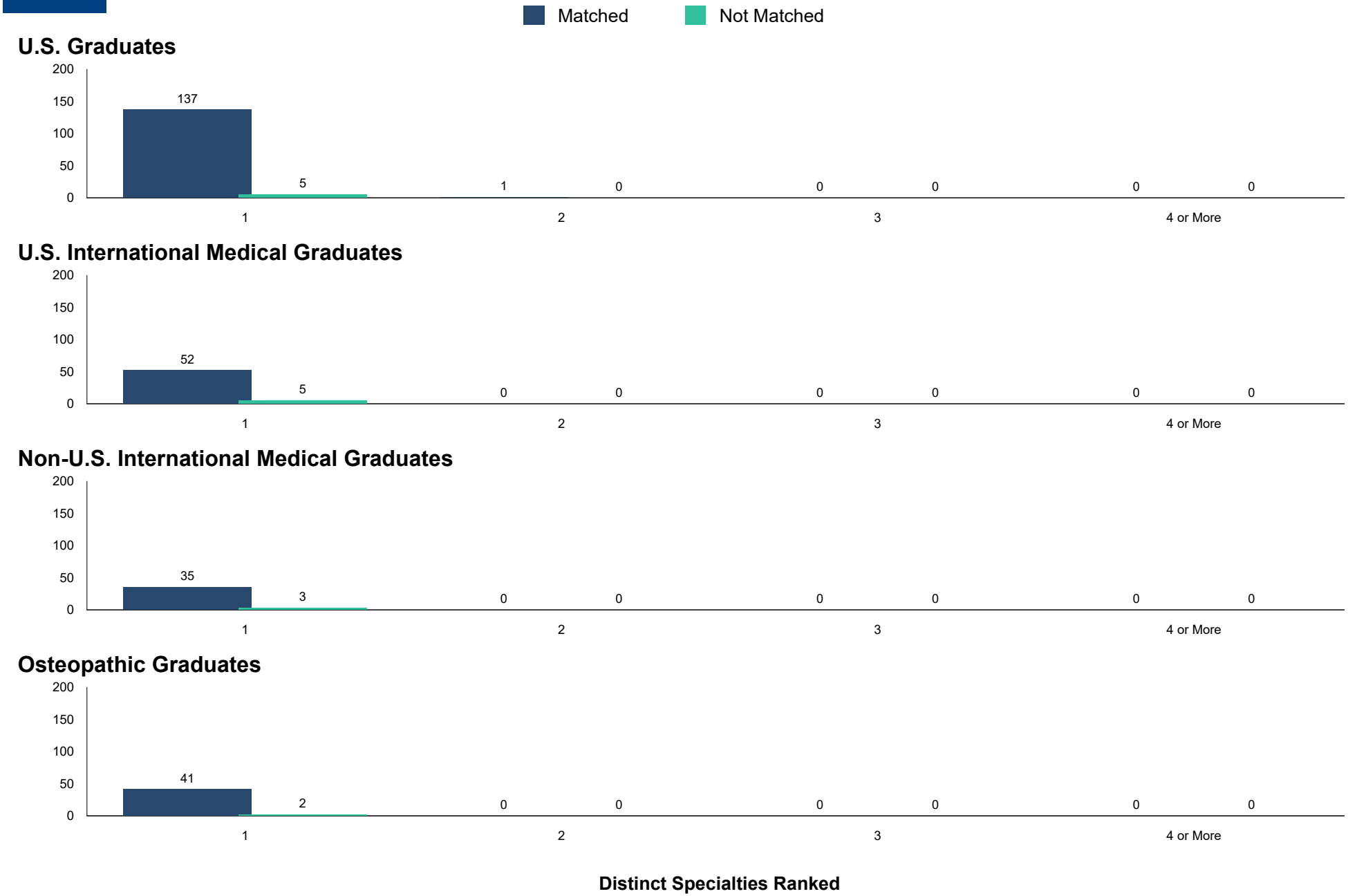
Chart-2 Number of Distinct Specialties Ranked

Child and Adolescent Psychiatry



Source: NRMP Data Warehouse

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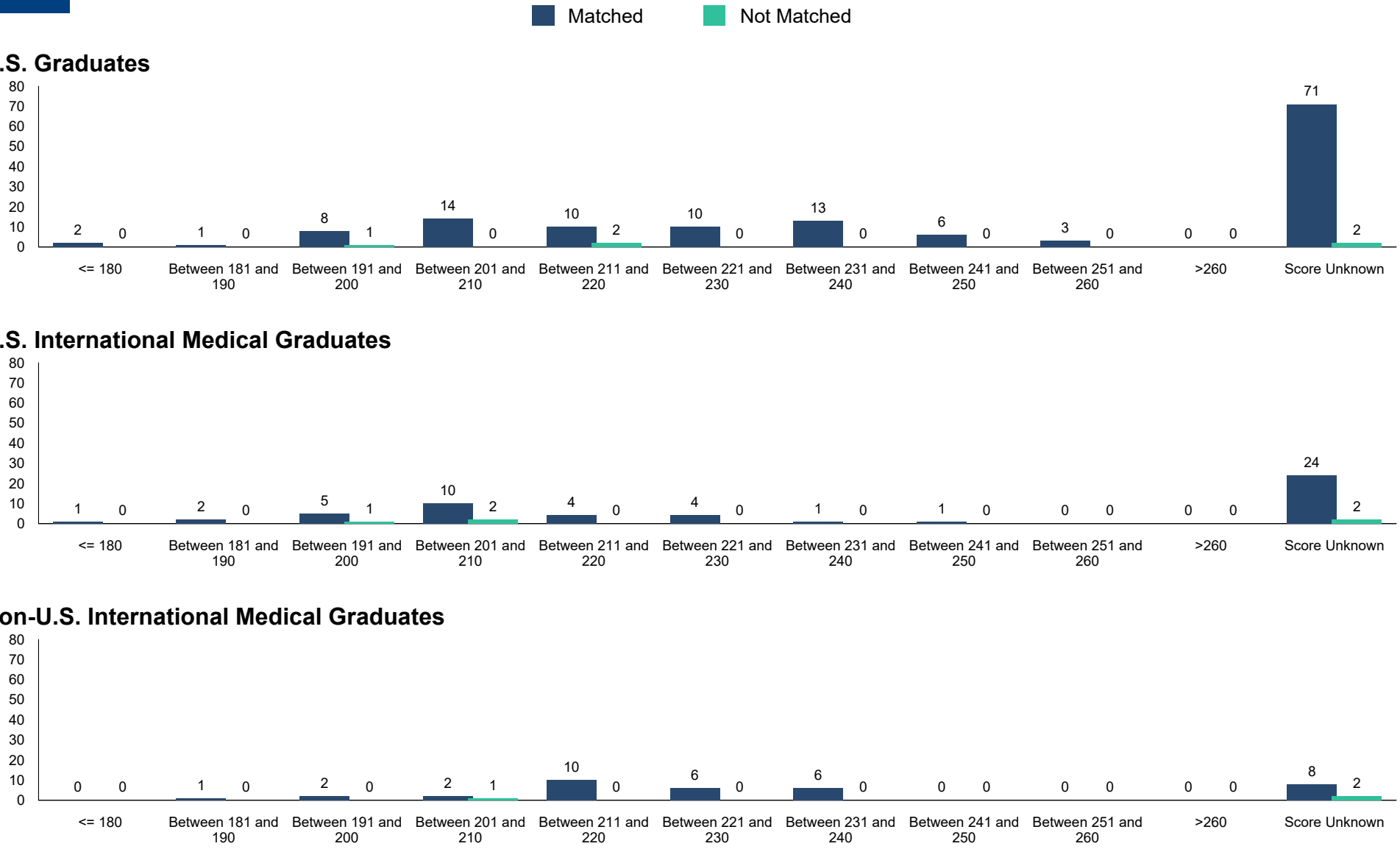
Chart-3 USMLE Step 1 Scores

Child and Adolescent Psychiatry



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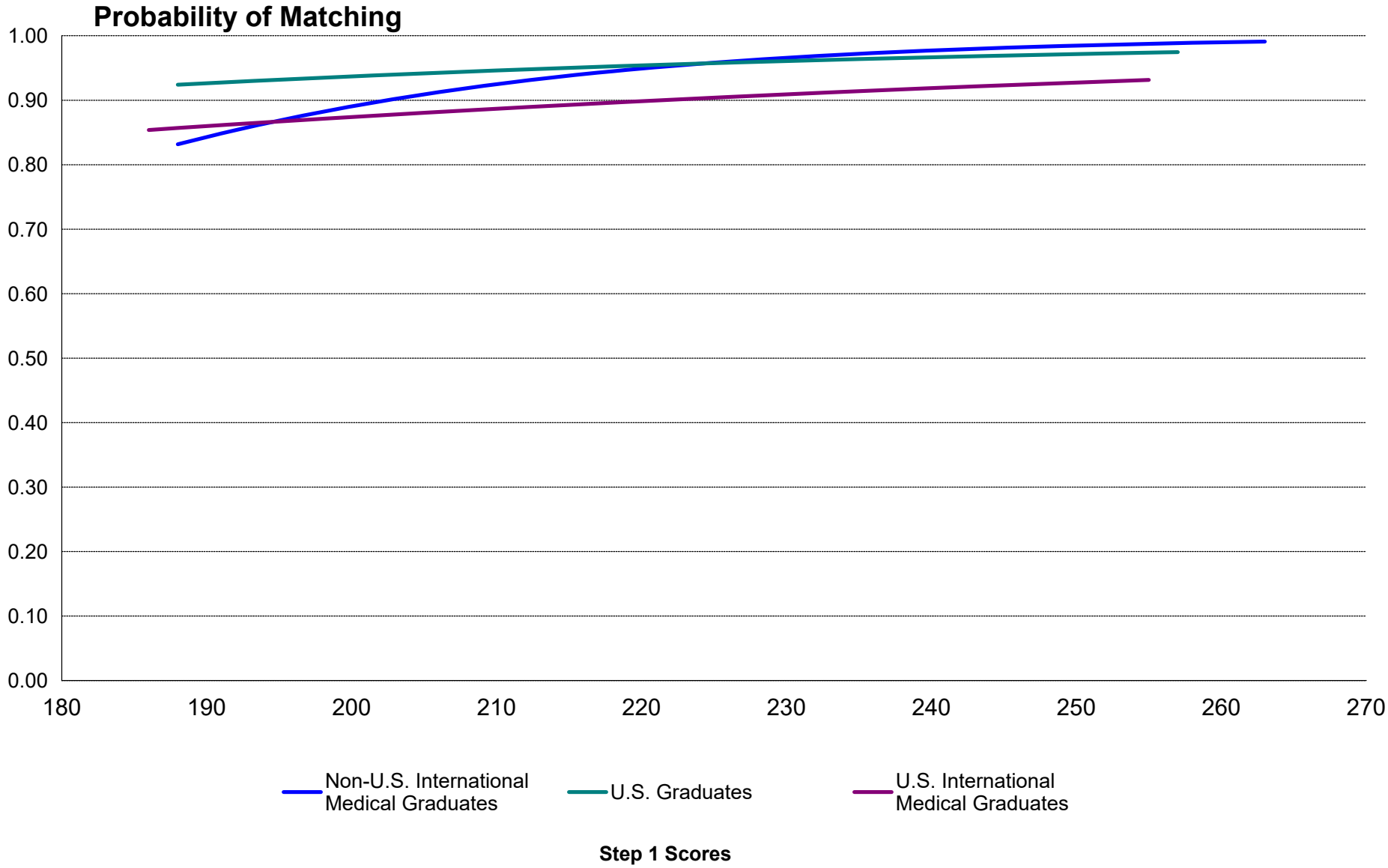
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Child and Adolescent Psychiatry



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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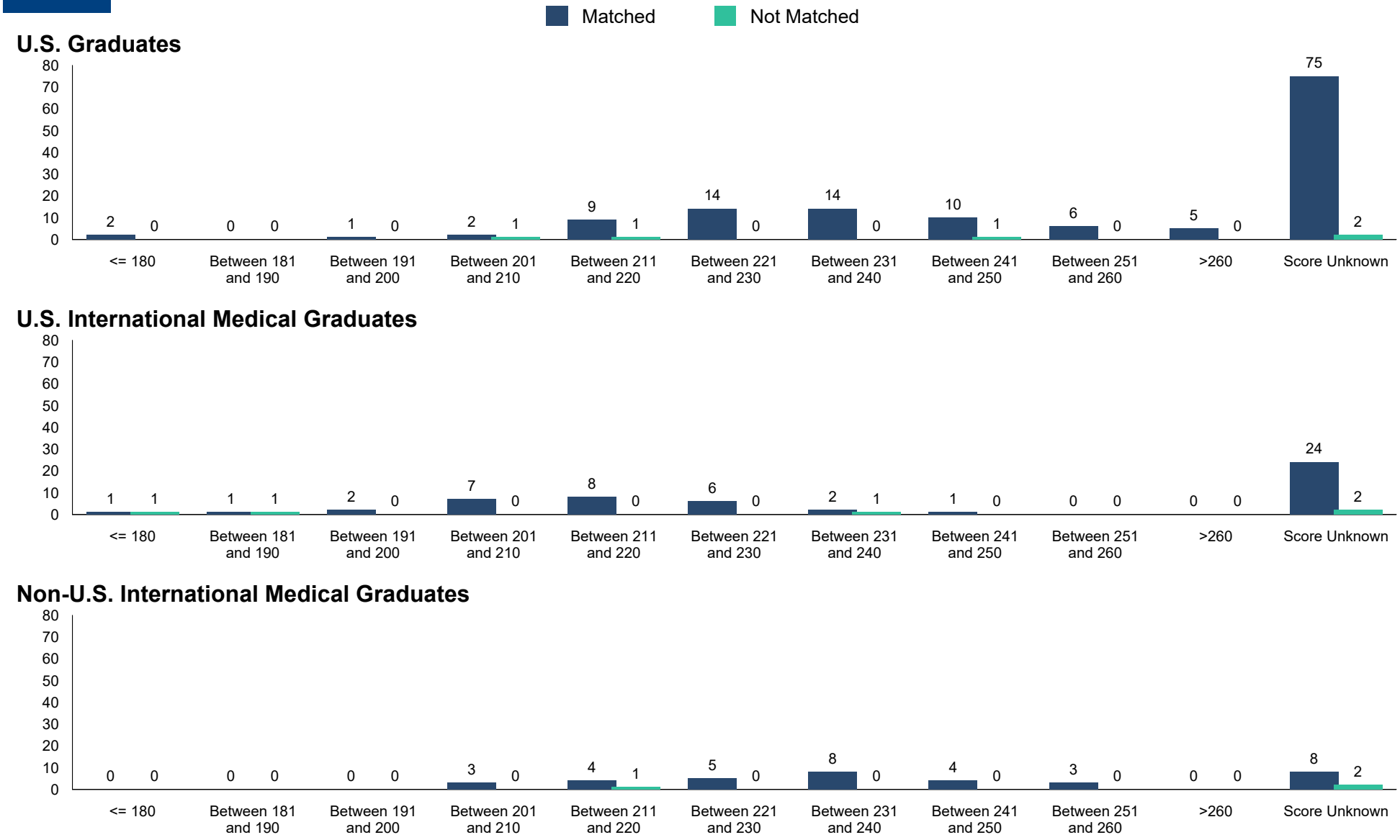
Chart-4 USMLE Step 2 Scores

Child and Adolescent Psychiatry



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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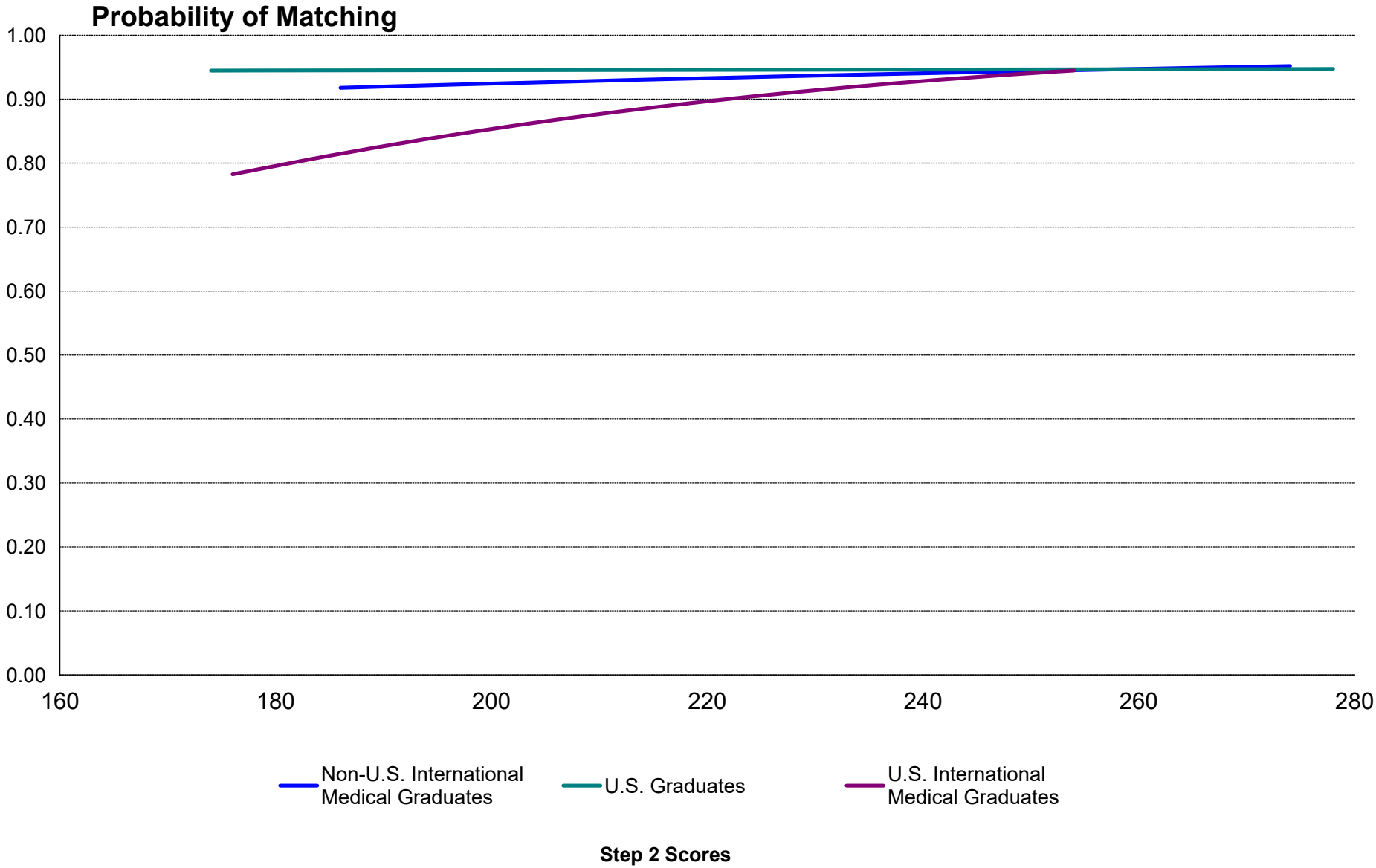
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Child and Adolescent Psychiatry



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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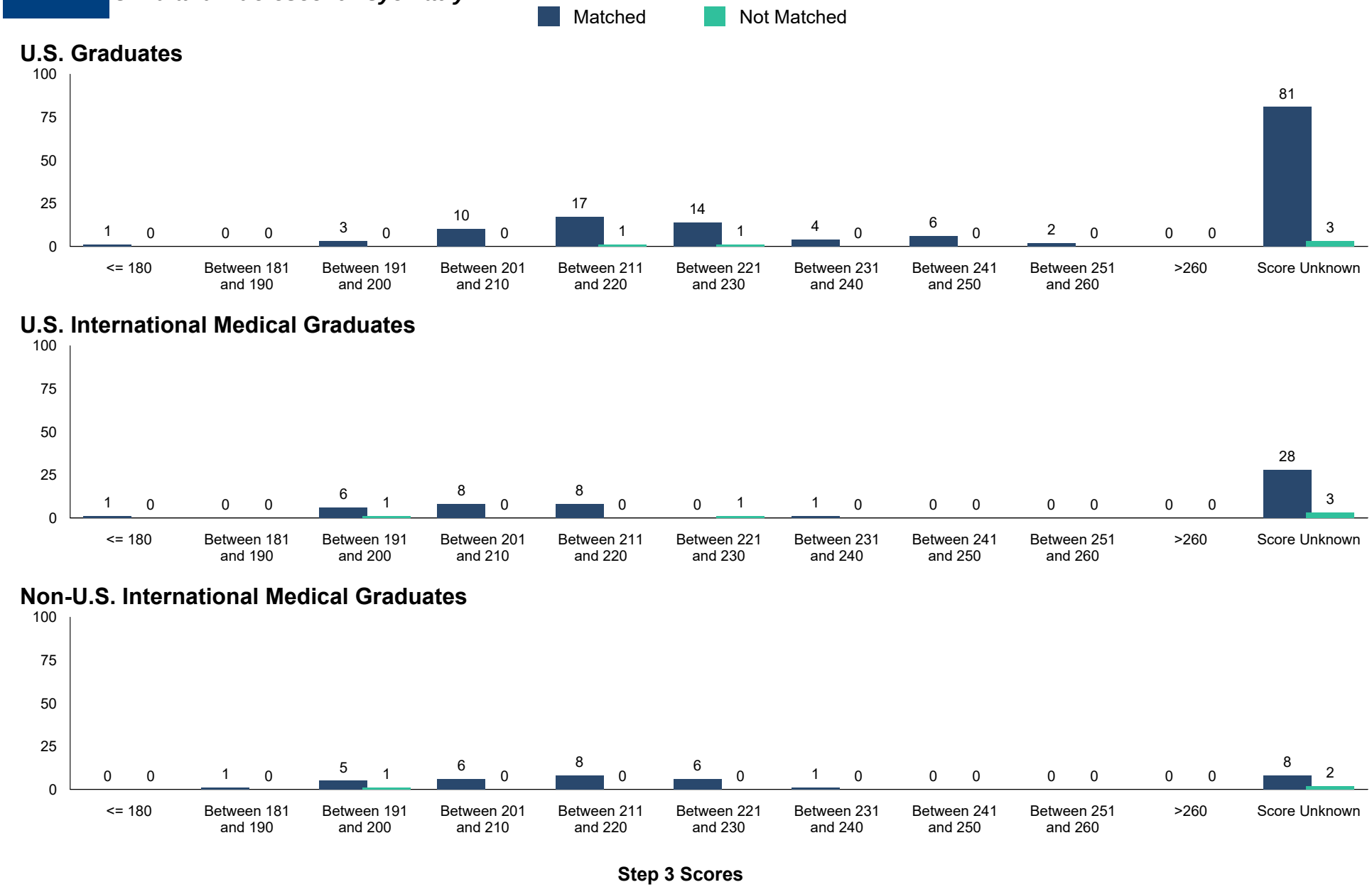
Chart-5 USMLE Step 3 Scores

Child and Adolescent Psychiatry



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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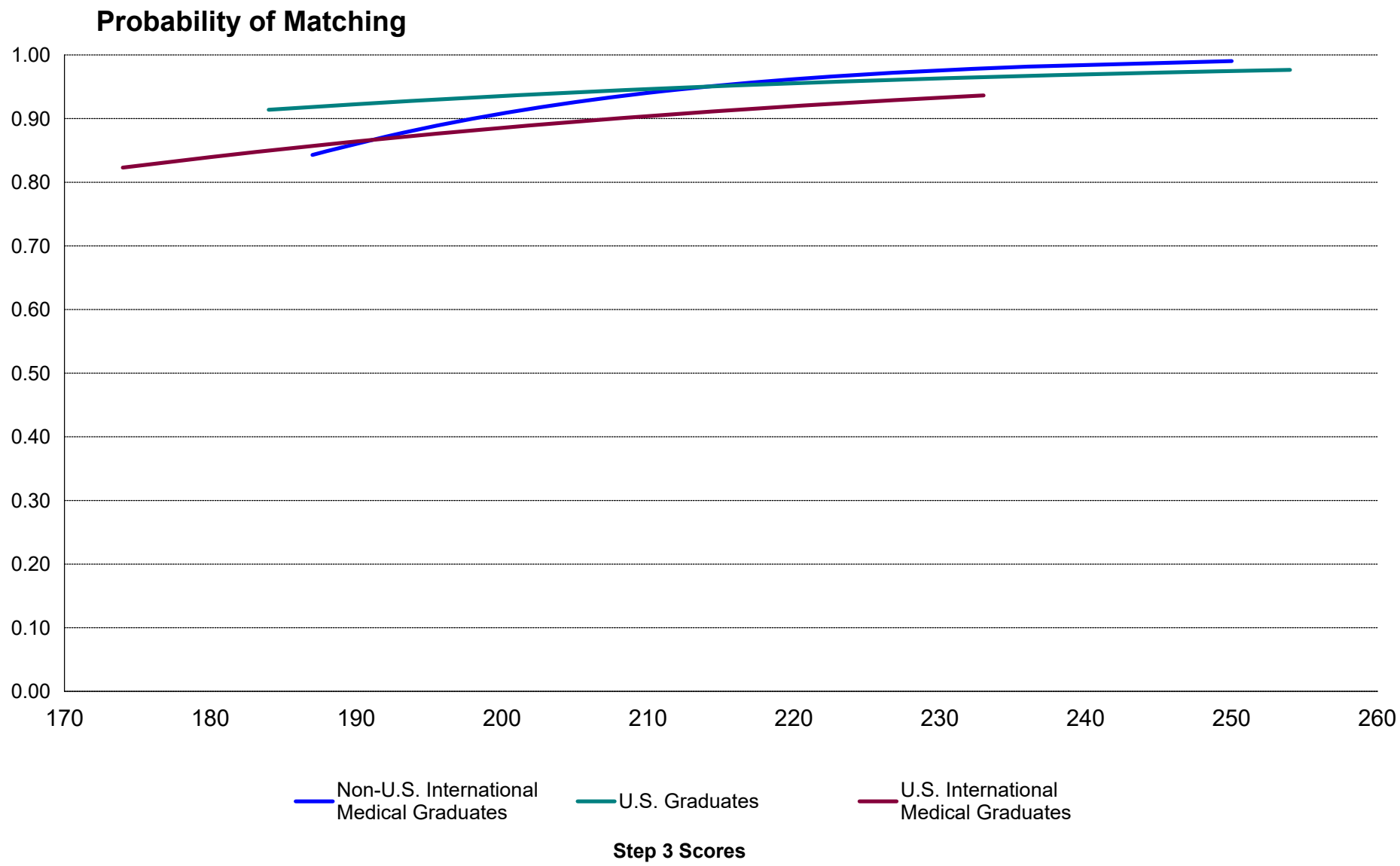
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Child and Adolescent Psychiatry



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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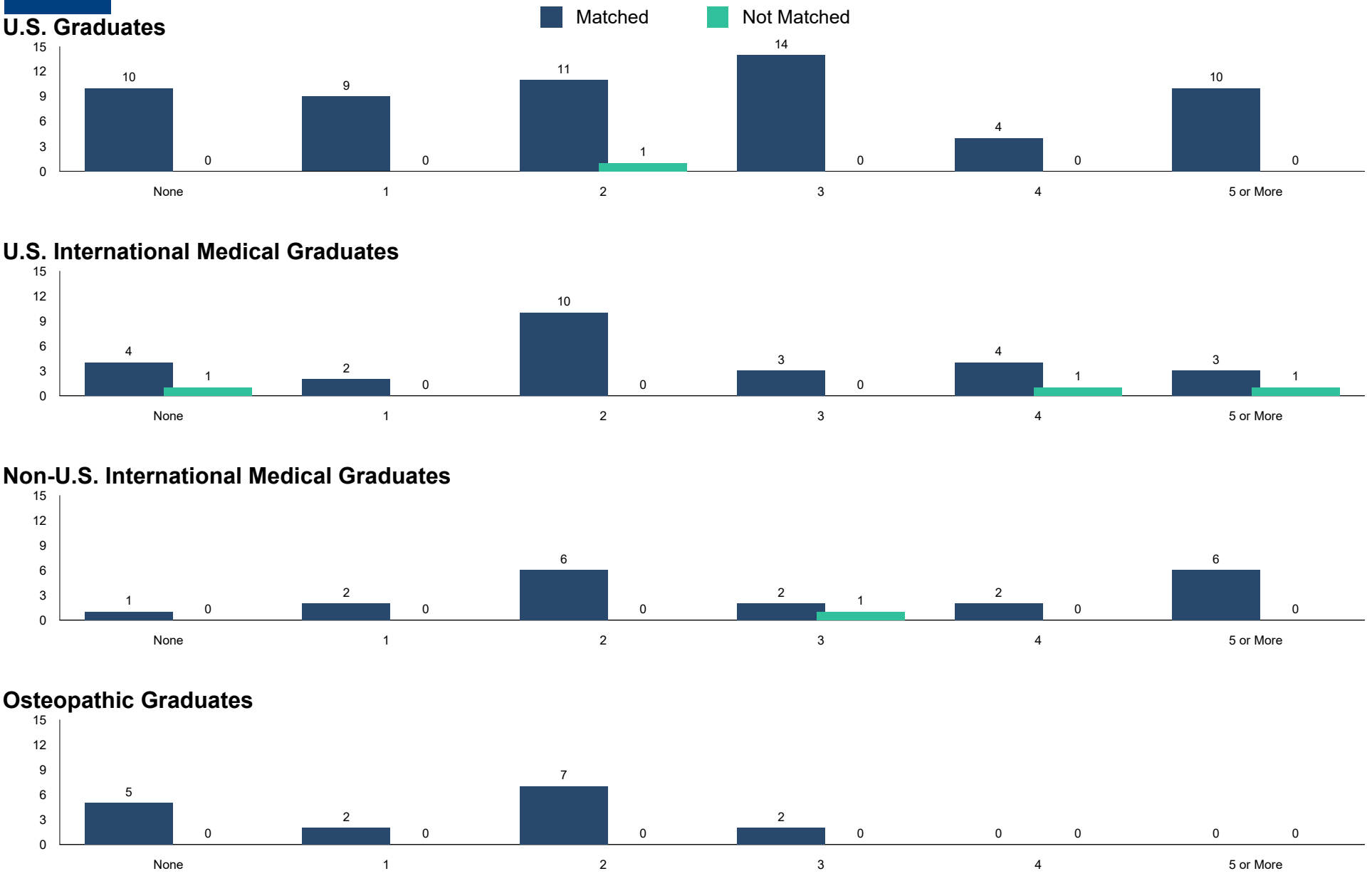
Chart-6 Number of Research Projects

Child and Adolescent Psychiatry



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Child and Adolescent Psychiatry

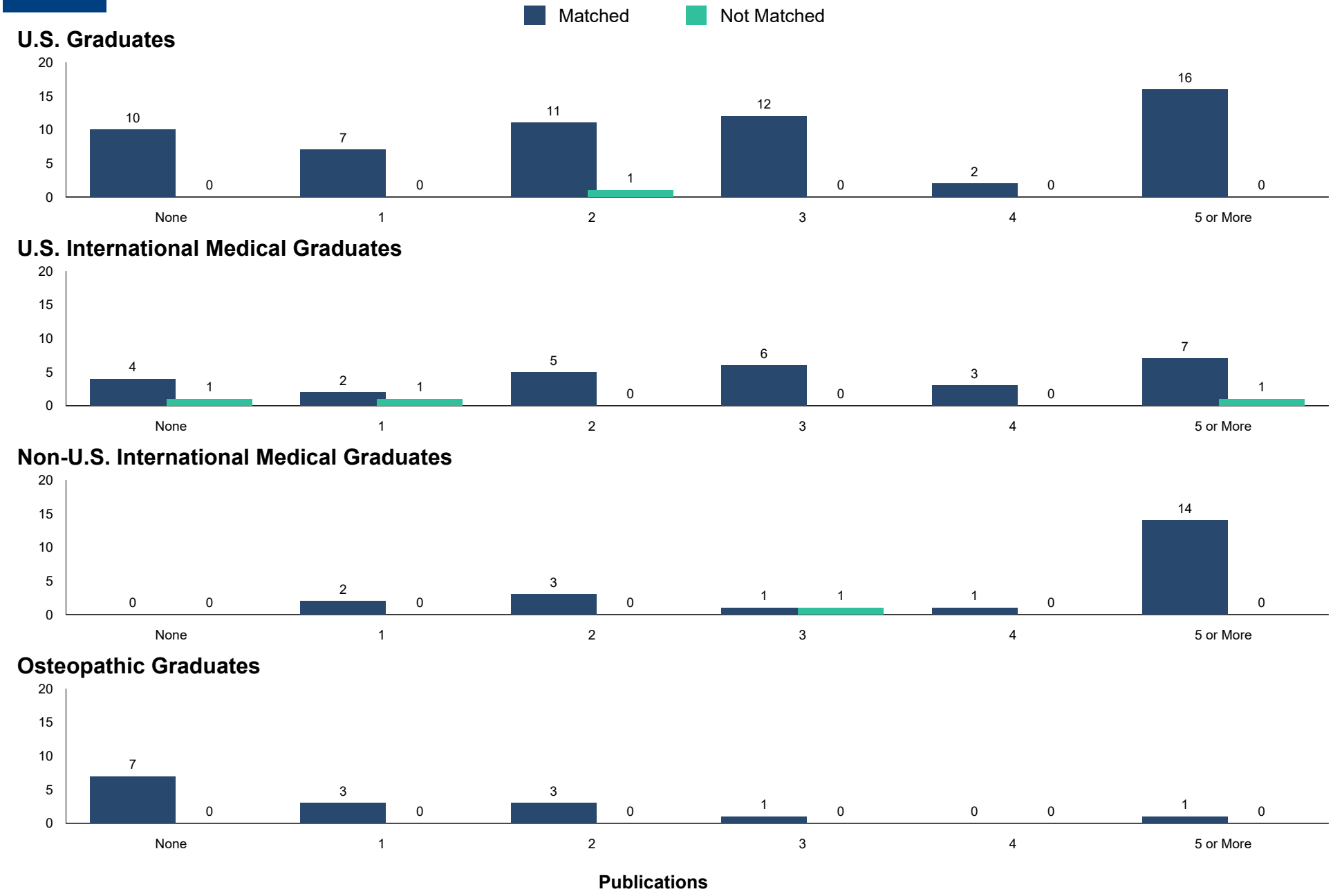

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Chart-8 Number of Work Experiences

Child and Adolescent Psychiatry

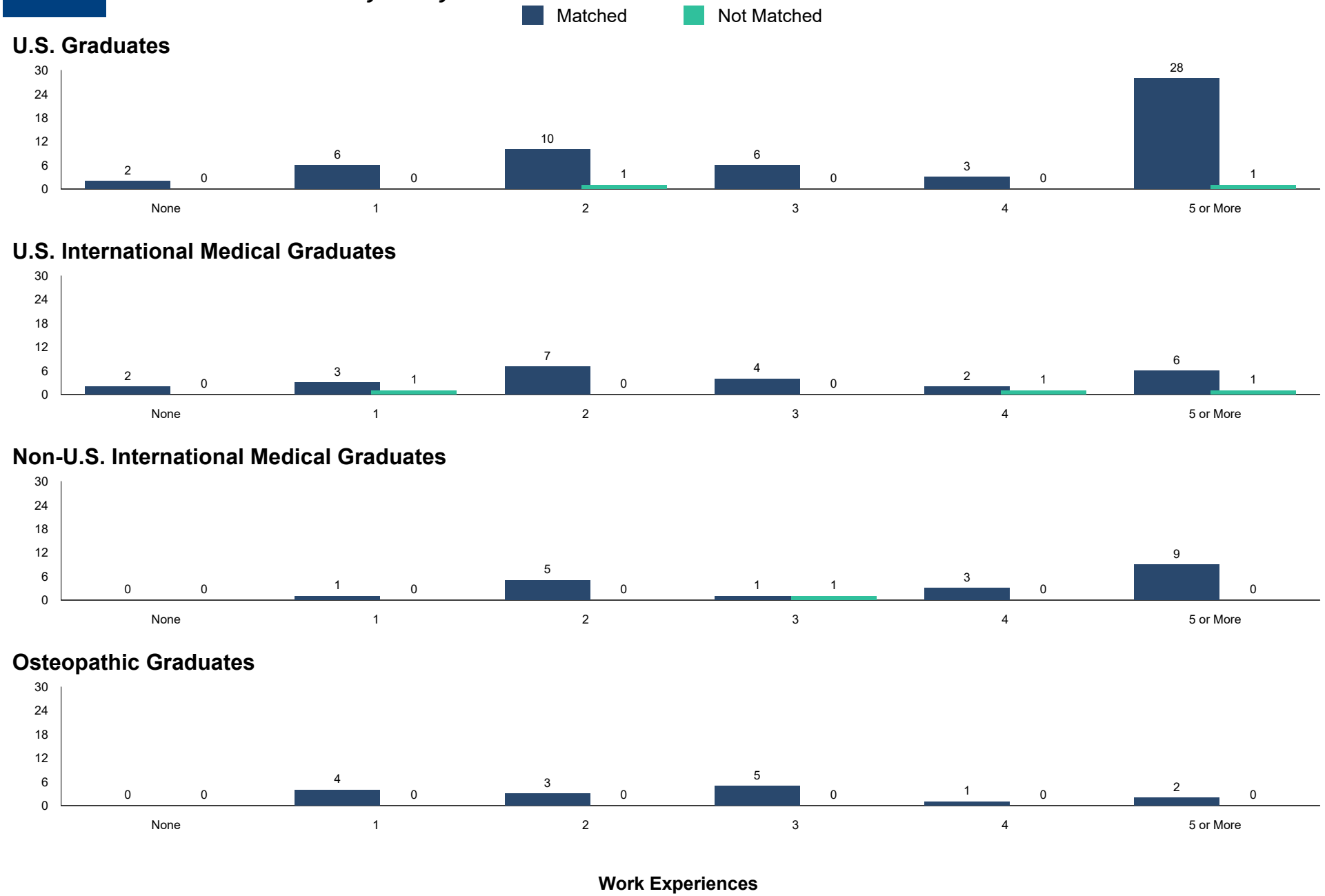

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Chart-9 Number of Volunteer Experiences

Child and Adolescent Psychiatry

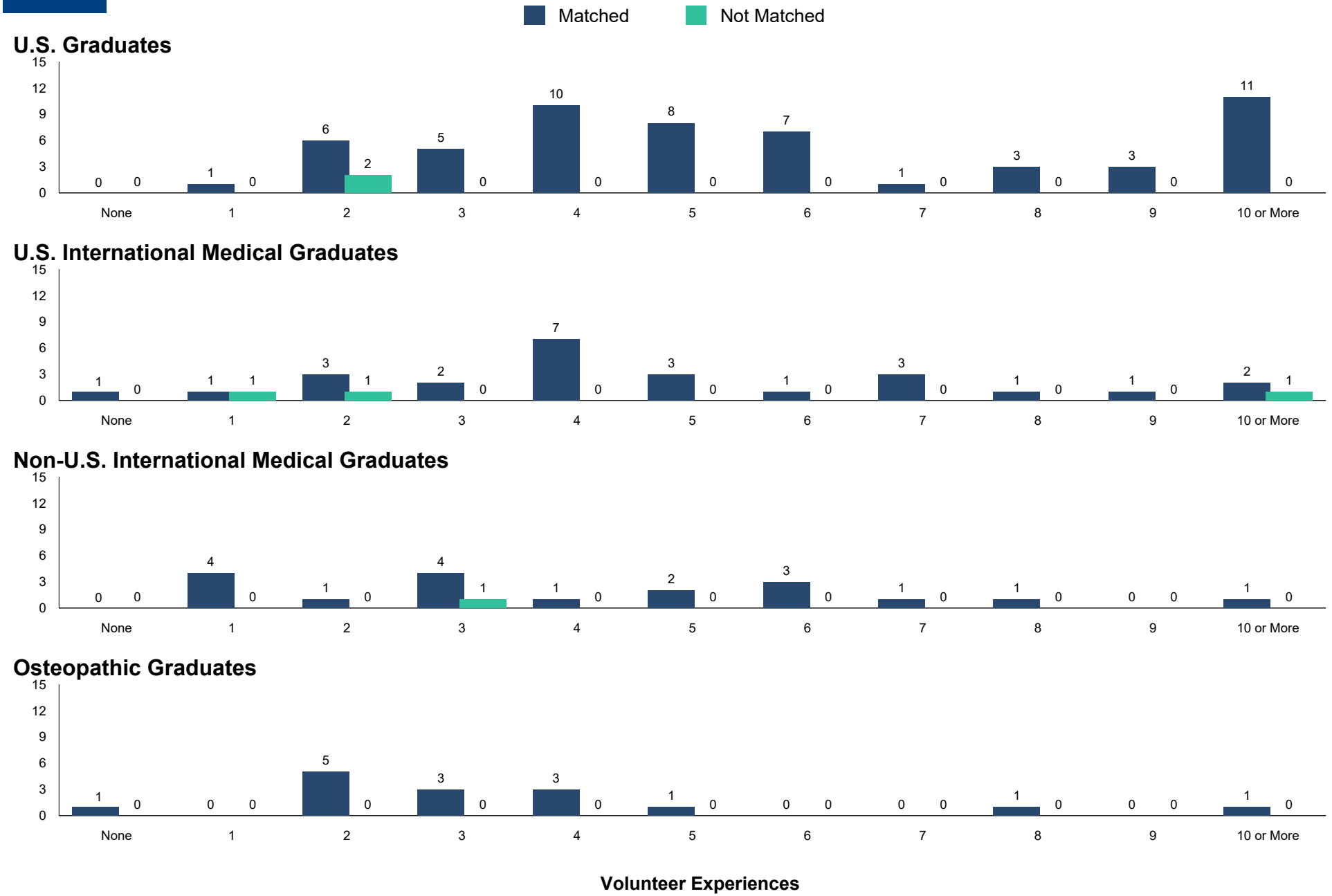

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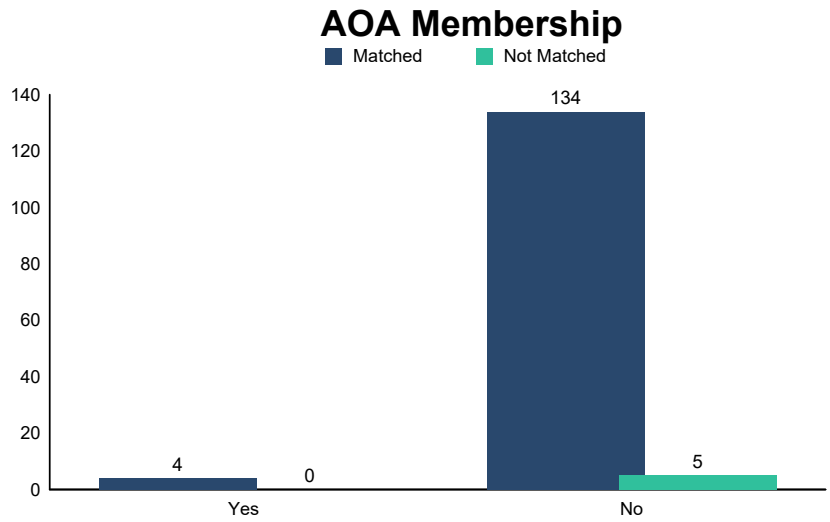
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Child and Adolescent Psychiatry



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Endocrinology, Diabetes, and Metabolism

Table-1 Summary Statistics
Endocrinology, Diabetes, and Metabolism

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=117)	Unmatched (n=4)	Matched (n=30)	Unmatched (n=17)	Matched (n=99)	Unmatched (n=22)	Matched (n=21)	Unmatched (n=2)
1.	Mean number of contiguous ranks	8.5	4.5	6.0	1.9	8.6	3.0	7.6	3.0
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.1	1.0	1.2	1.0	1.0
3.	Mean USMLE Step 1 score	235	193	233	215	238	231	n/a	n/a
4.	Mean USMLE Step 2 score	247	219	234	217	243	234	n/a	n/a
5.	Mean USMLE Step 3 score	231	215	221	205	220	217	n/a	n/a
6.	Mean number of research experiences	3.7	1.7	2.9	28.4	3.0	1.9	2.2	3.0
7.	Mean number of abstracts, presentations, and publications	6.0	4.0	5.3	4.2	6.9	4.6	7.8	1.0
8.	Mean number of work experiences	3.1	0.5	2.9	7.1	4.0	4.2	2.6	3.0
9.	Mean number of volunteer experiences	4.8	2.0	6.9	4.7	2.6	2.7	4.2	3.0
10.	Percentage who are AOA members	12.8	0.0	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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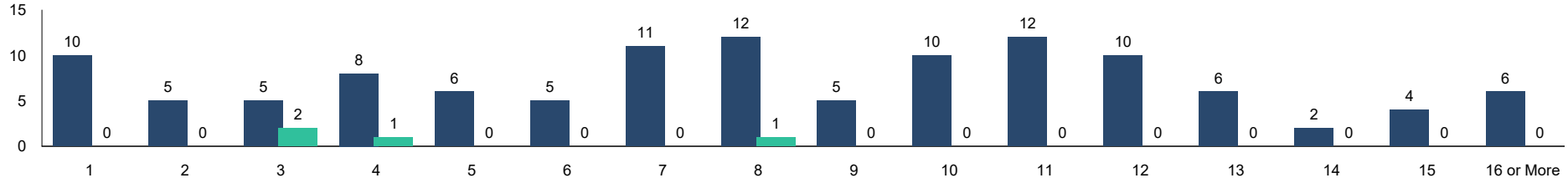
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

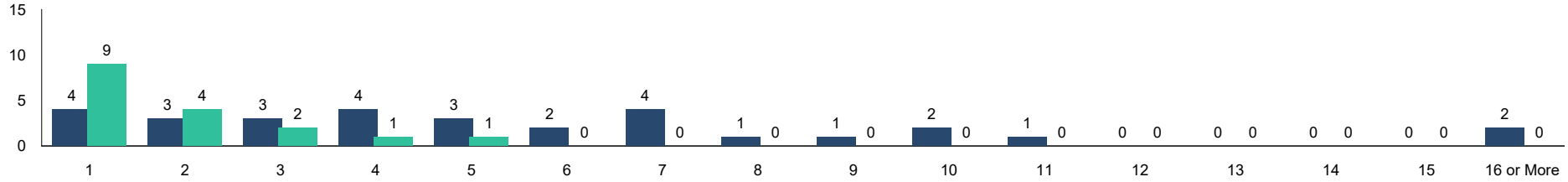
Endocrinology, Diabetes, and Metabolism

Matched Not Matched

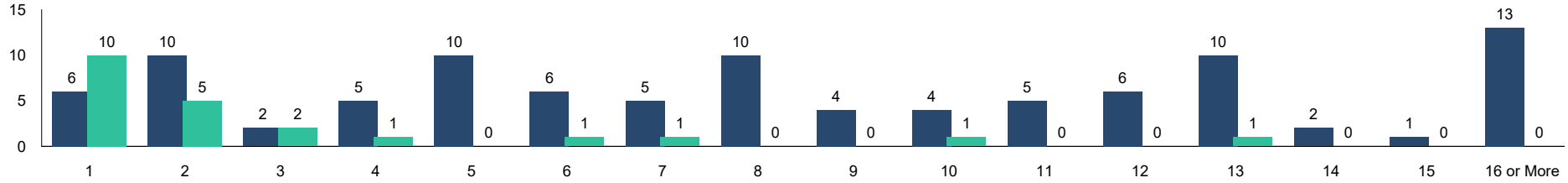
U.S. Graduates



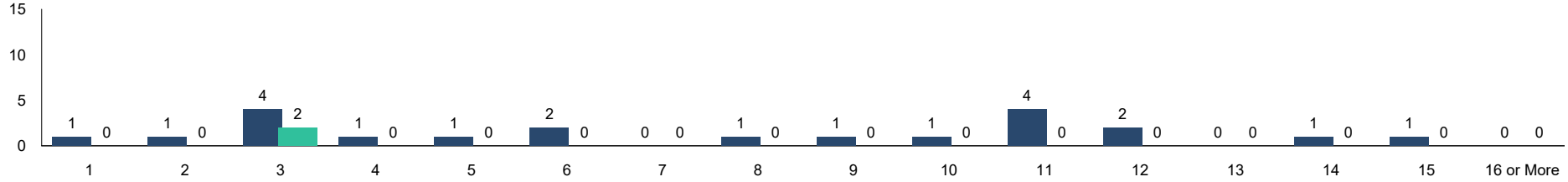
U.S. International Medical Graduates



Non-U.S. International Medical Graduates



Osteopathic Graduates



Contiguous Ranks

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Endocrinology, Diabetes, and Metabolism

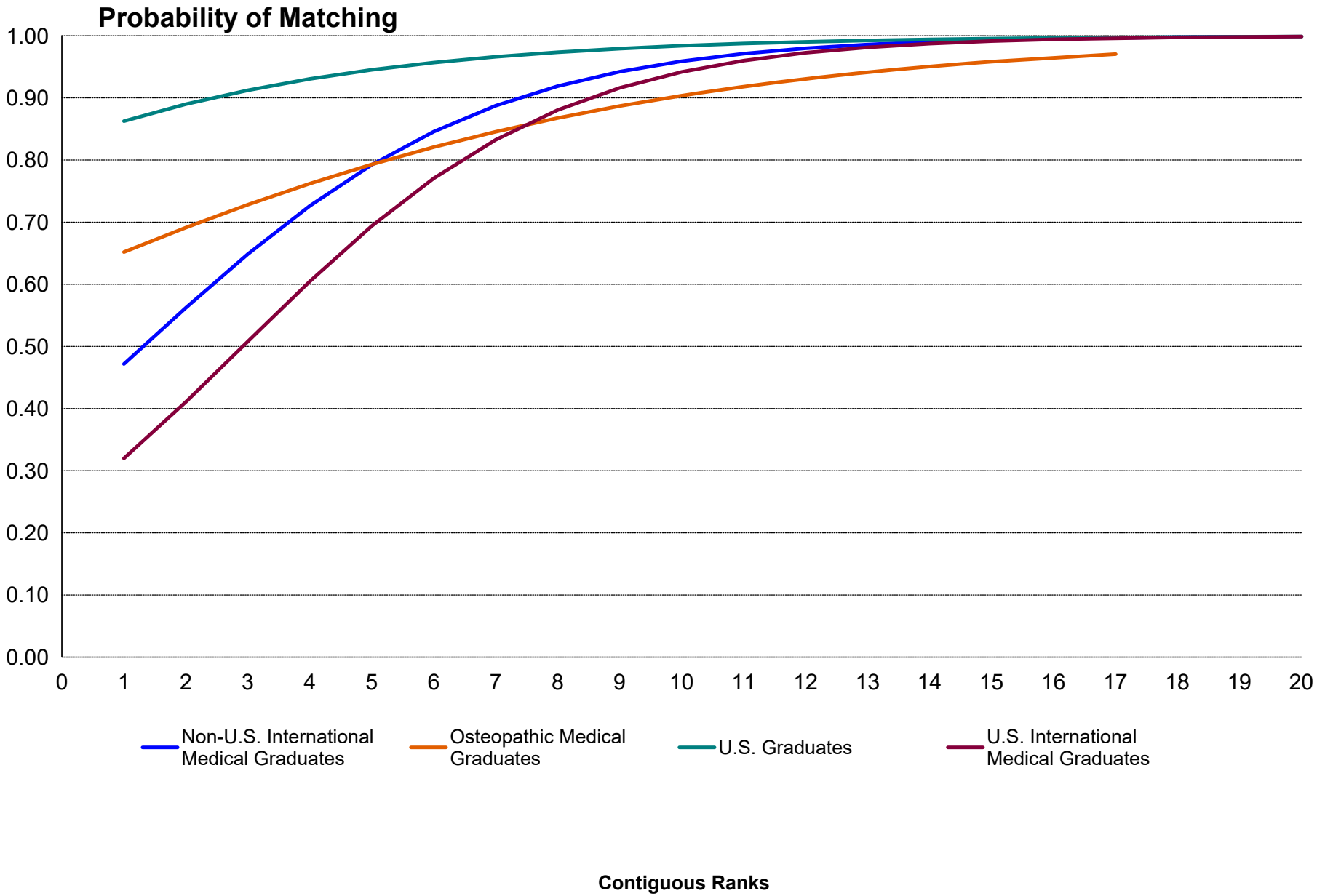

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Chart-2 Number of Distinct Specialties Ranked

Endocrinology, Diabetes, and Metabolism

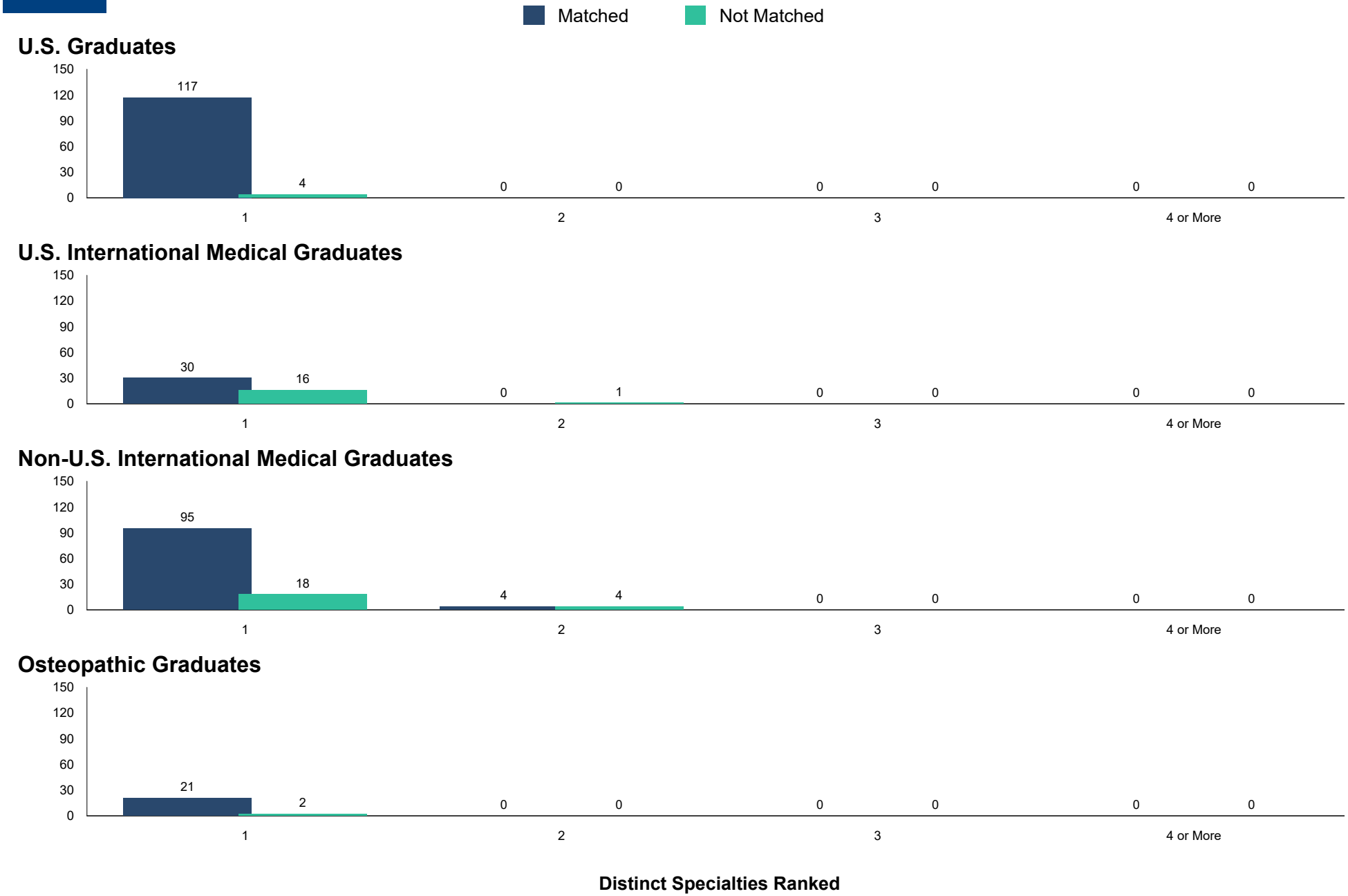

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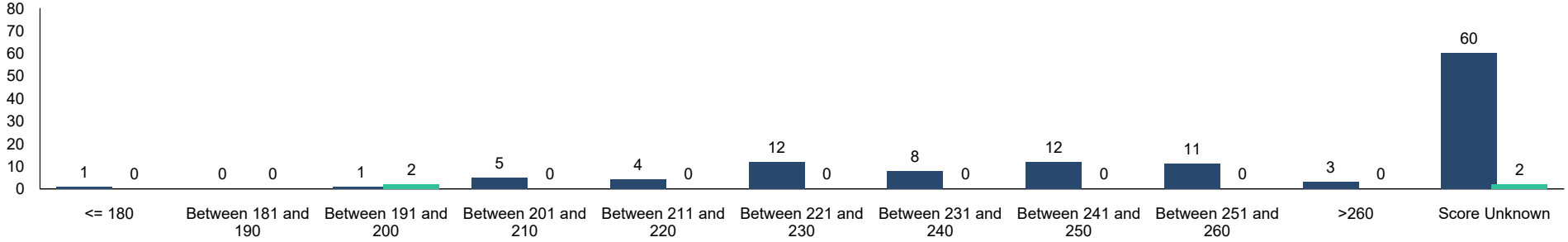
Chart-3 USMLE Step 1 Scores

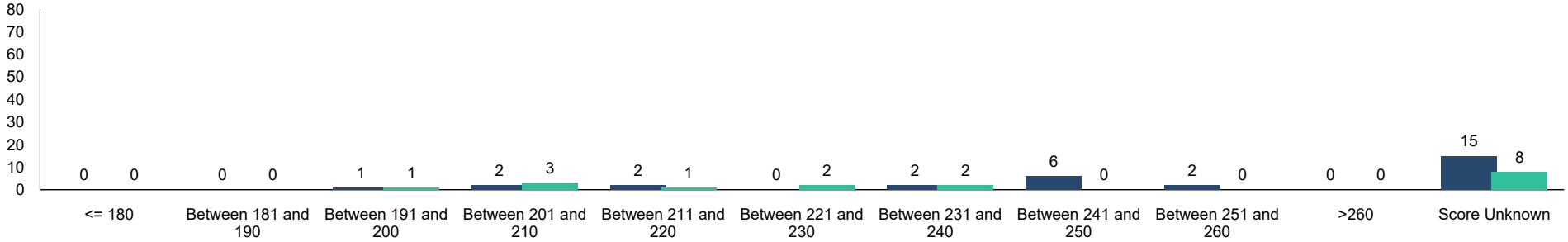
Endocrinology, Diabetes, and Metabolism

Matched Not Matched

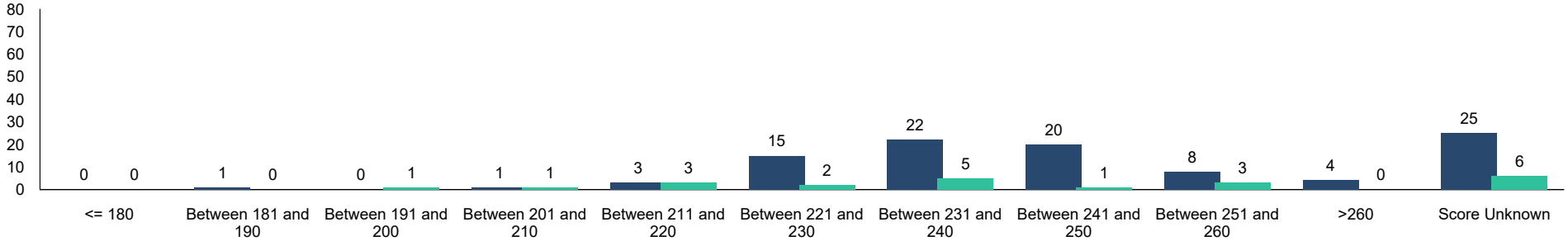
U.S. Graduates



U.S. International Medical Graduates



Non-U.S. International Medical Graduates



Step 1 Scores

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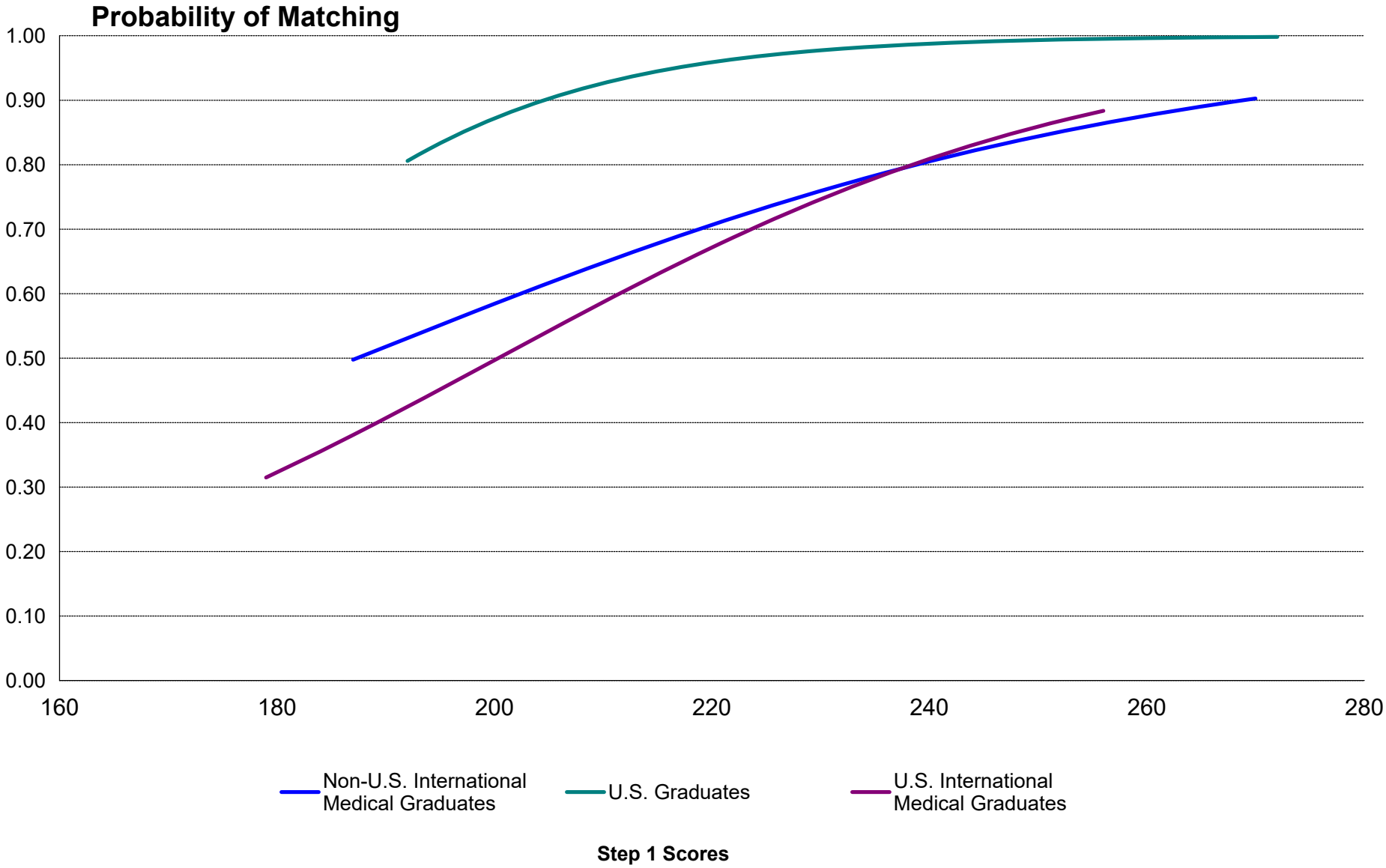
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Endocrinology, Diabetes, and Metabolism



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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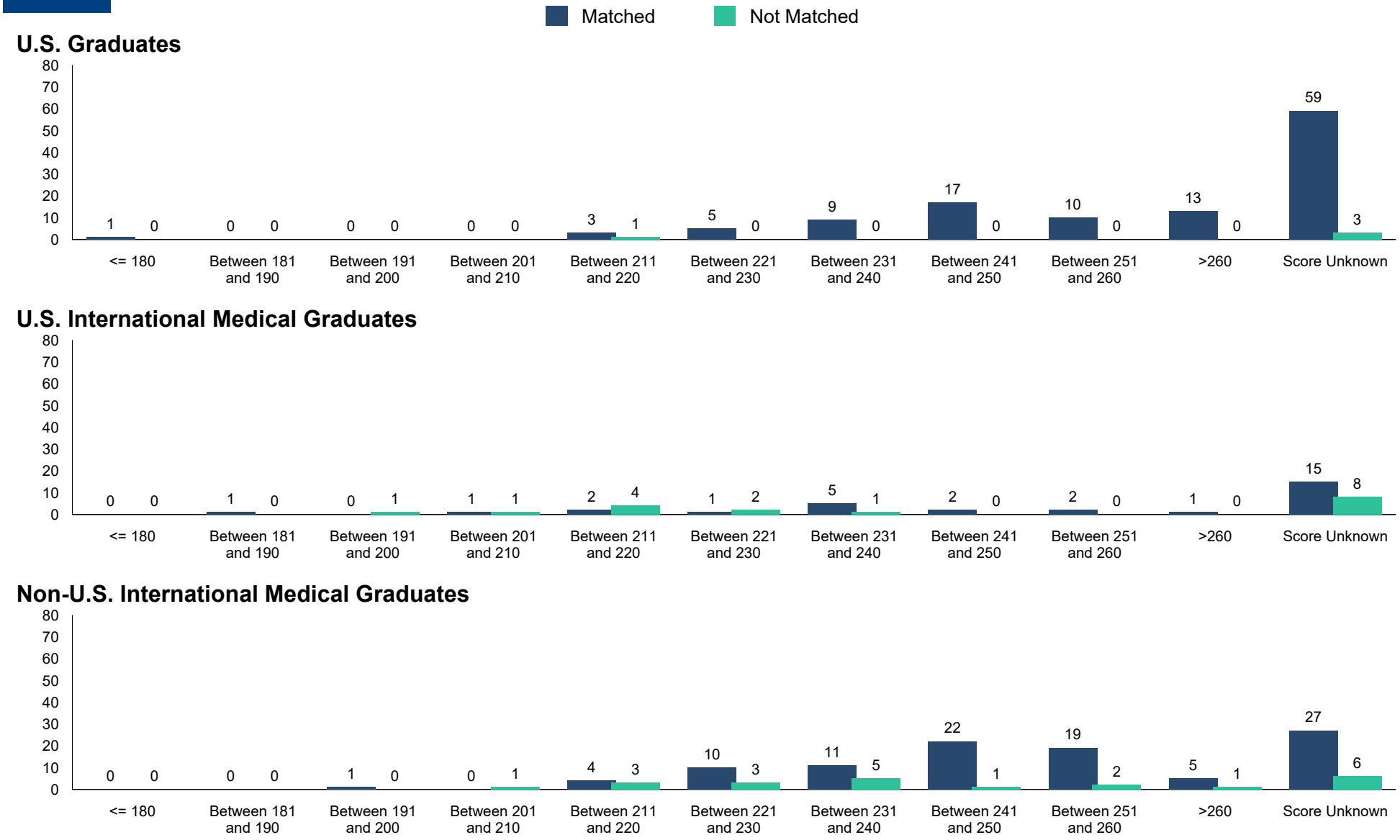
Chart-4 USMLE Step 2 Scores

Endocrinology, Diabetes, and Metabolism



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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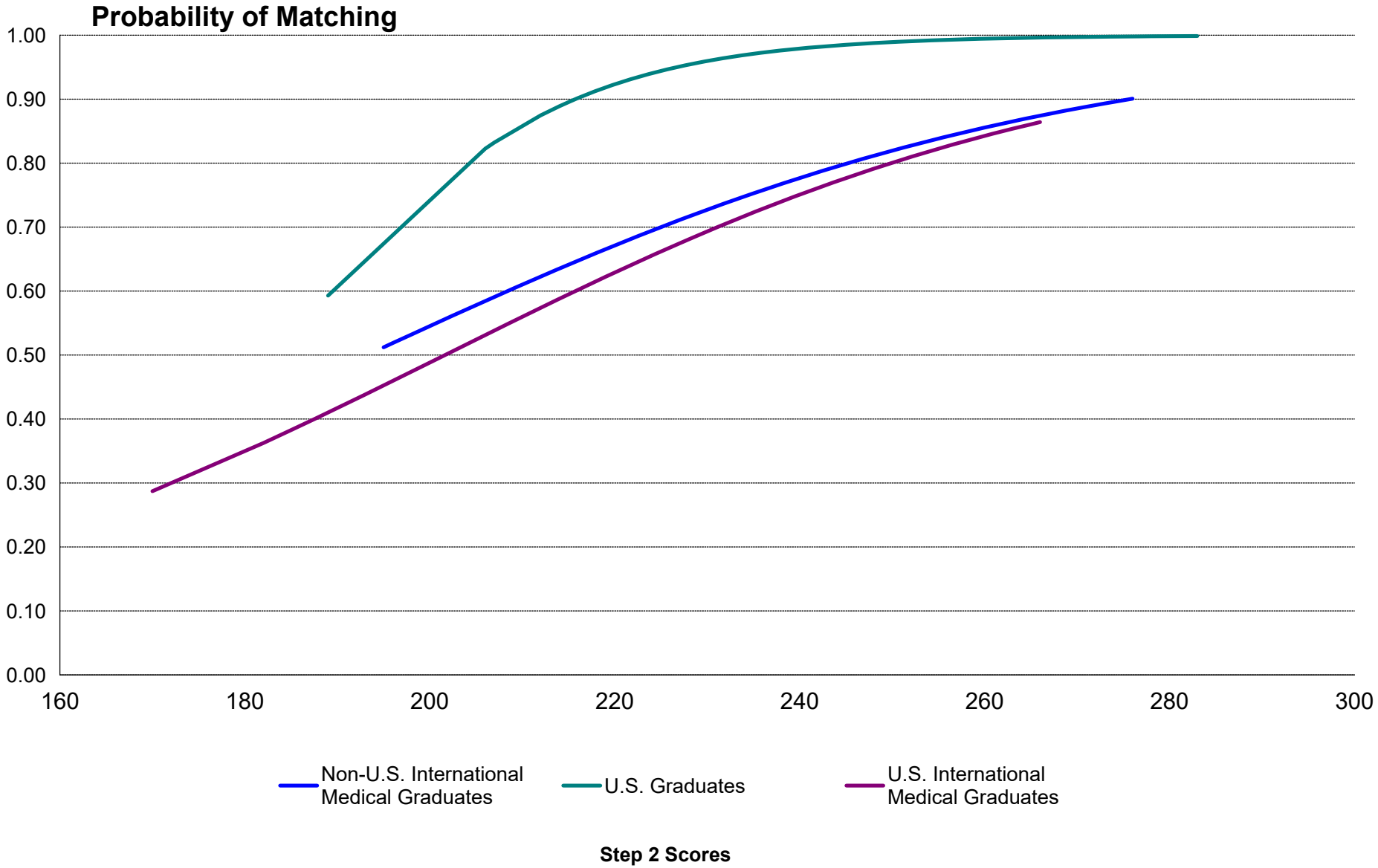
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Endocrinology, Diabetes, and Metabolism



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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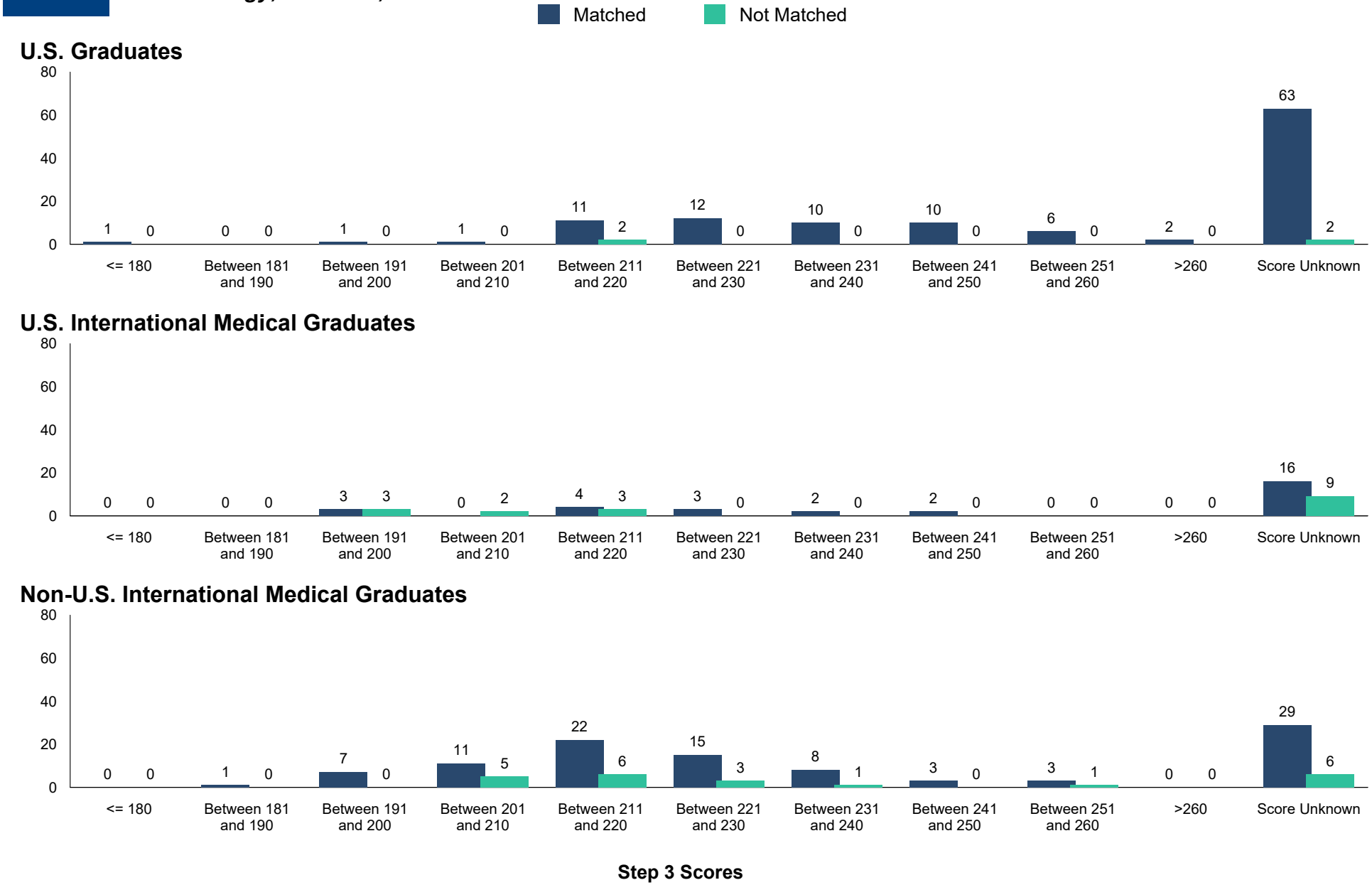
Chart-5 USMLE Step 3 Scores

Endocrinology, Diabetes, and Metabolism



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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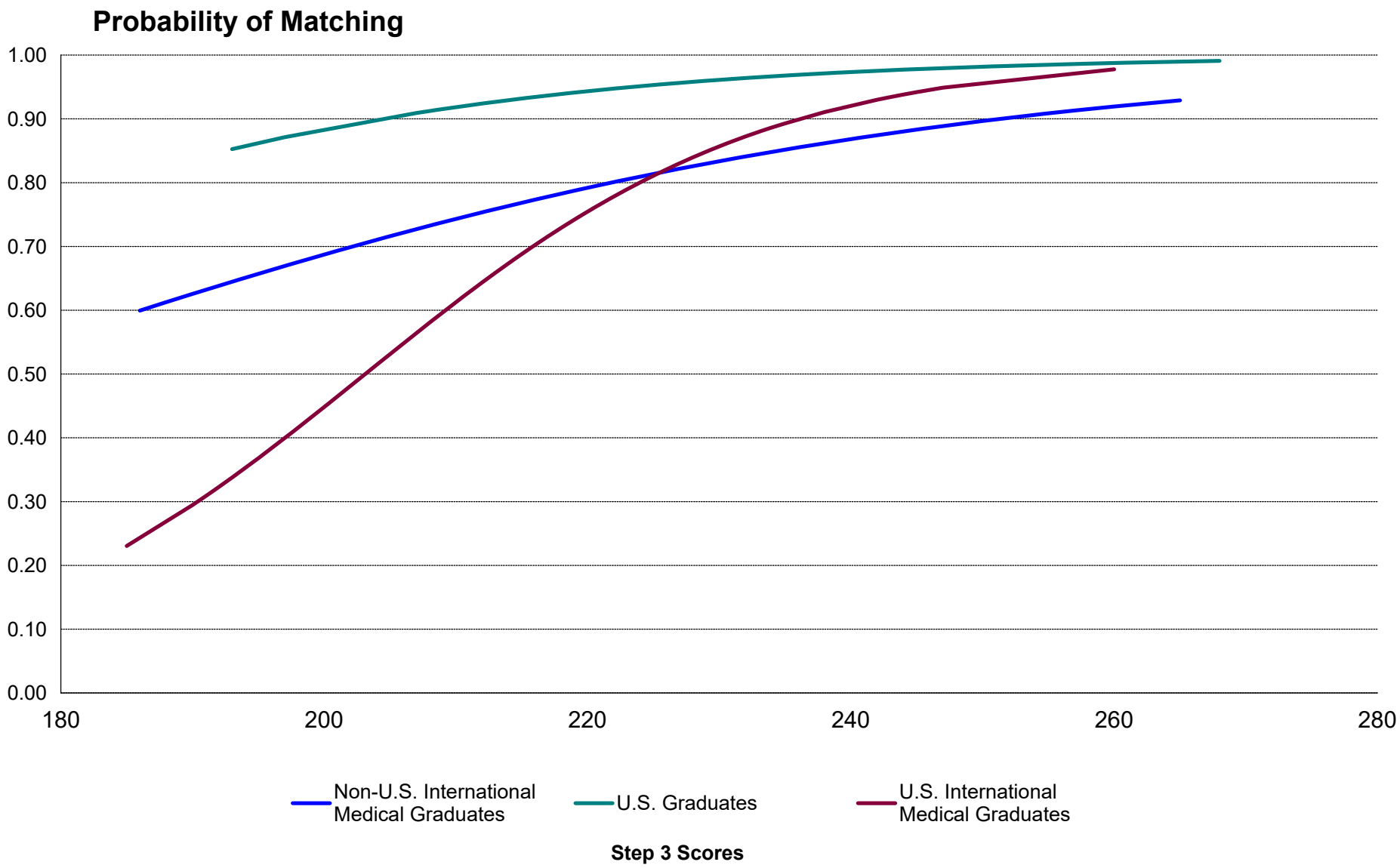
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Endocrinology, Diabetes, and Metabolism



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Endocrinology, Diabetes, and Metabolism

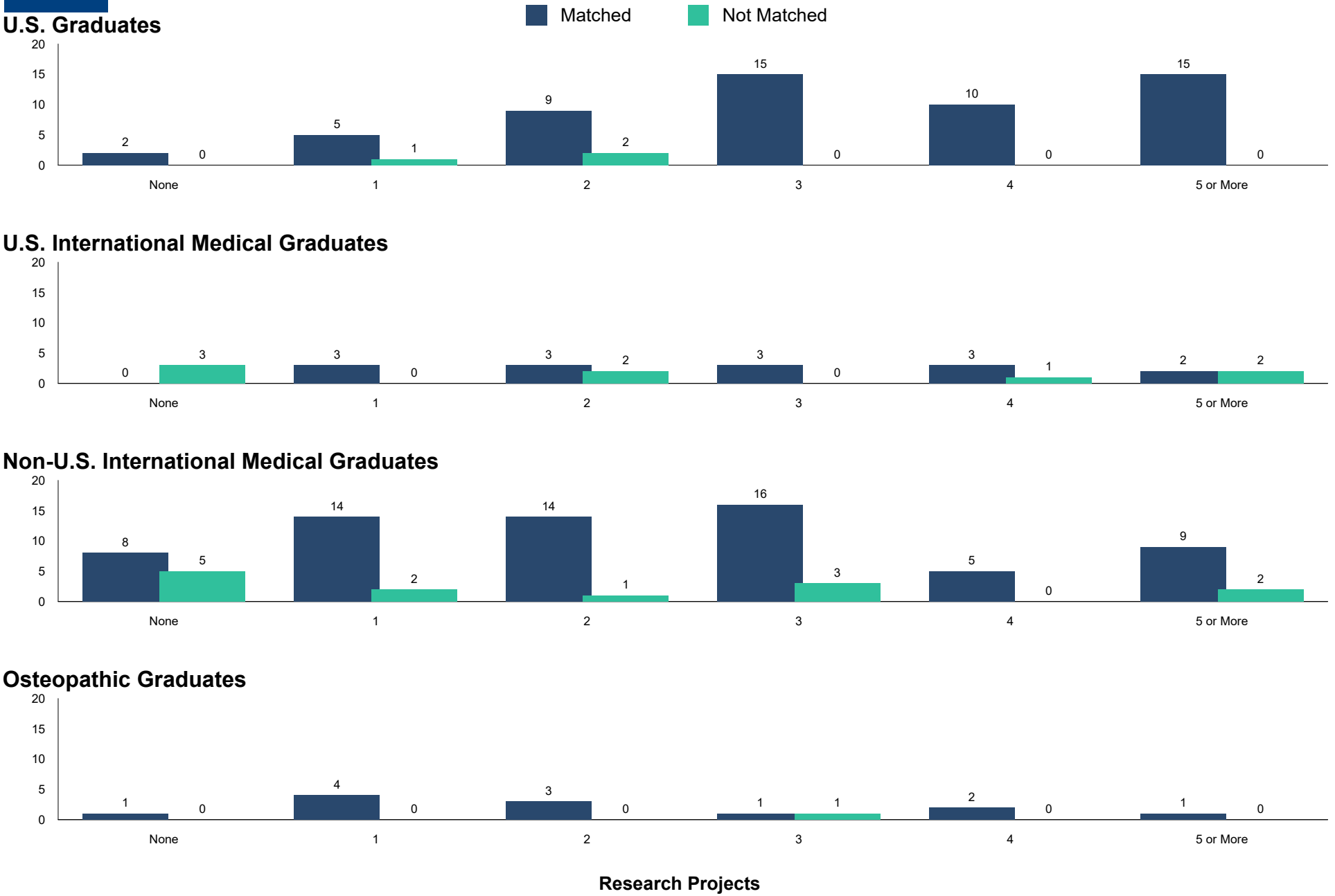

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Chart-7 Number of Abstracts, Presentations, and Publications

Endocrinology, Diabetes, and Metabolism

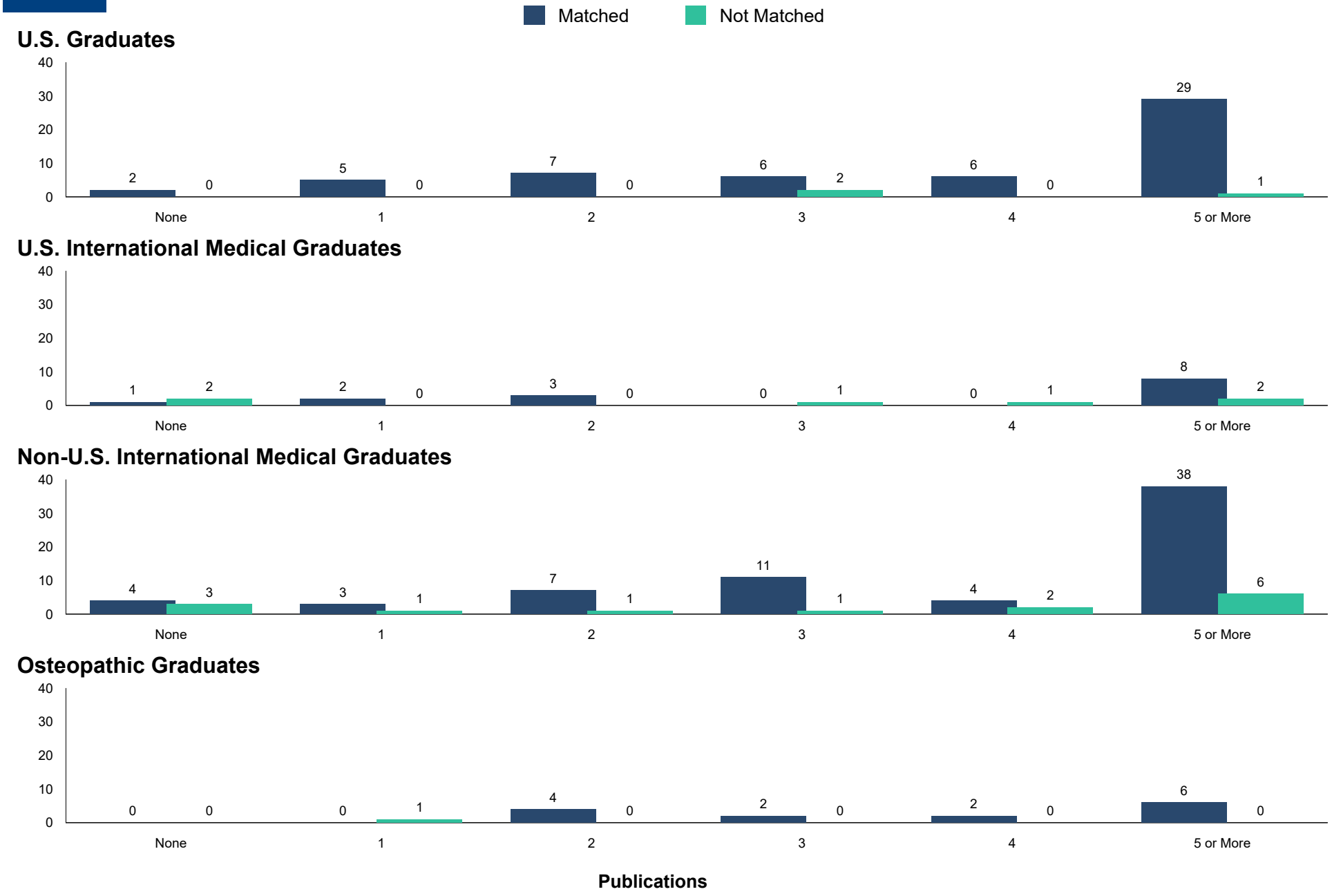

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Chart-8 Number of Work Experiences

Endocrinology, Diabetes, and Metabolism

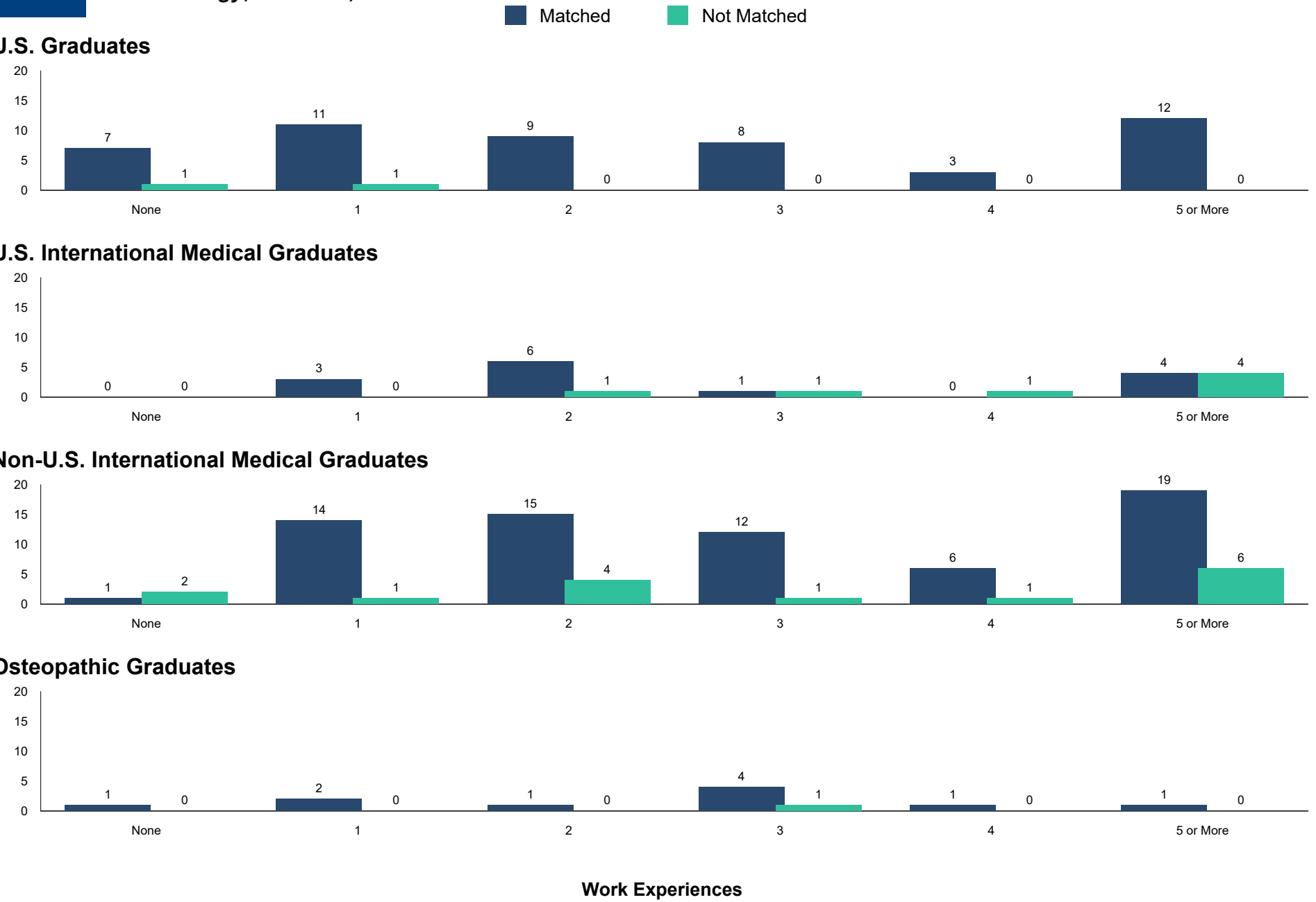

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Chart-9 Number of Volunteer Experiences

Endocrinology, Diabetes, and Metabolism

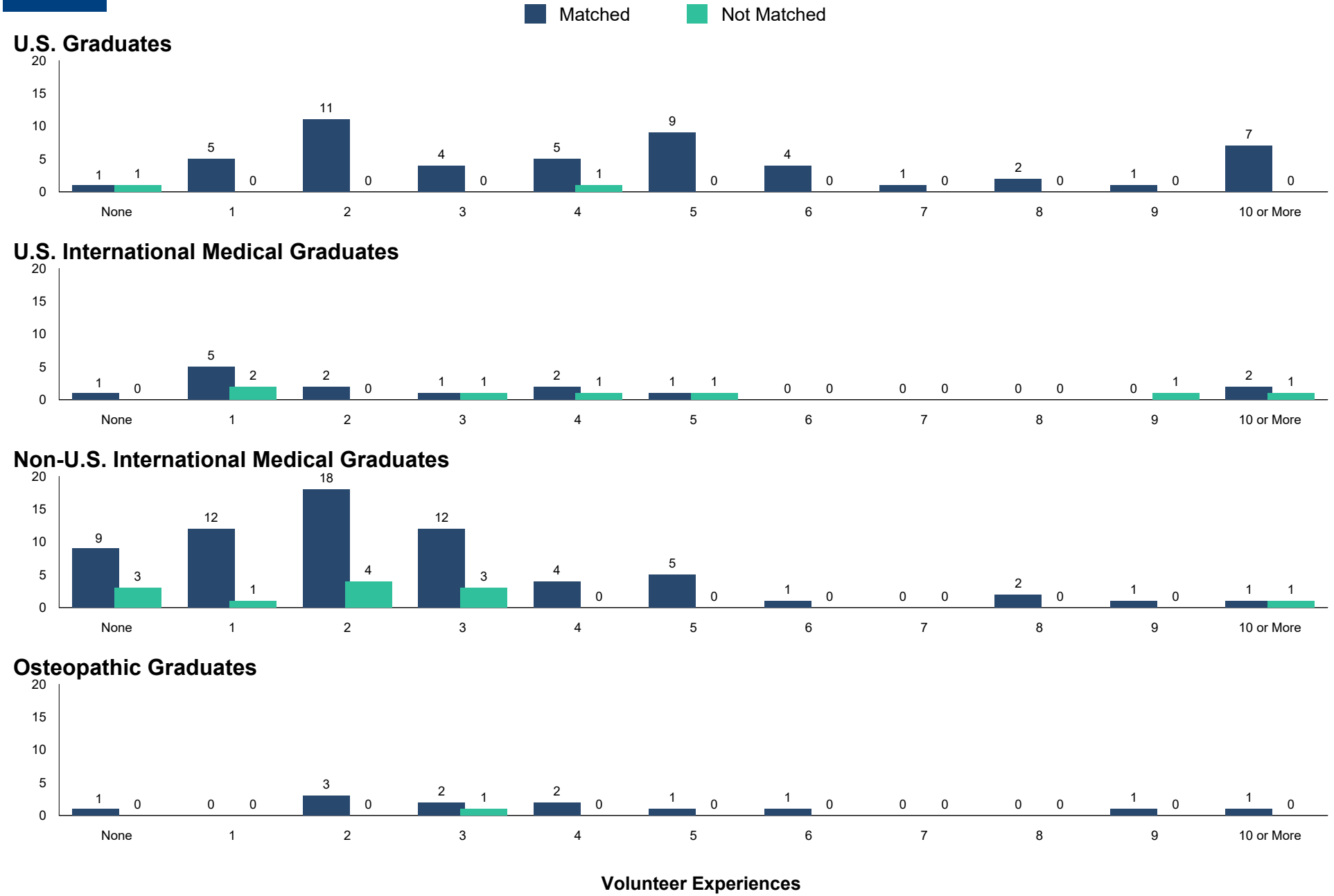

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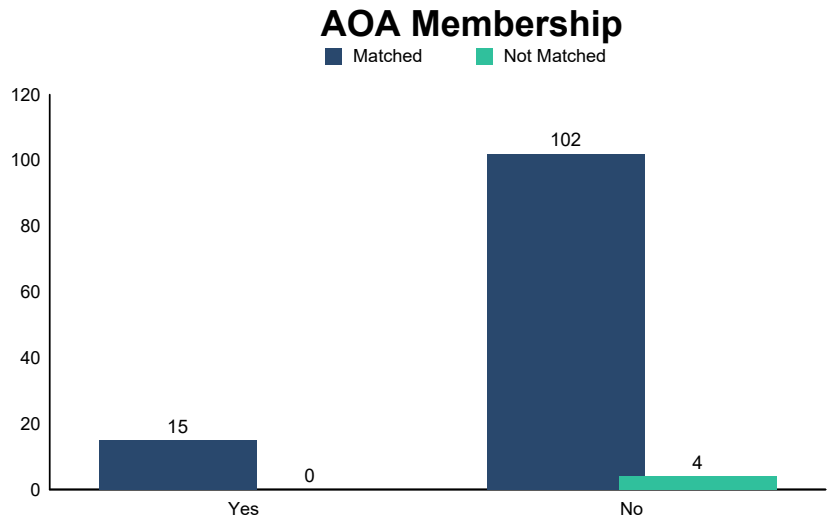
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Endocrinology, Diabetes, and Metabolism



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Gastroenterology

Table-1 Summary Statistics
Gastroenterology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=304)	Unmatched (n=69)	Matched (n=46)	Unmatched (n=63)	Matched (n=115)	Unmatched (n=108)	Matched (n=23)	Unmatched (n=29)
1.	Mean number of contiguous ranks	10.0	4.7	6.2	4.0	6.3	2.9	4.9	8.4
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
3.	Mean USMLE Step 1 score	235	226	235	228	239	233	n/a	n/a
4.	Mean USMLE Step 2 score	248	236	242	230	245	237	n/a	n/a
5.	Mean USMLE Step 3 score	235	221	225	216	221	217	n/a	n/a
6.	Mean number of research experiences	4.9	4.7	4.4	5.3	6.3	5.1	3.8	5.6
7.	Mean number of abstracts, presentations, and publications	11.2	10.4	13.0	10.8	21.0	17.5	10.9	16.3
8.	Mean number of work experiences	3.1	3.4	3.3	4.4	4.3	5.3	2.9	2.7
9.	Mean number of volunteer experiences	4.8	4.0	4.4	3.5	3.6	3.2	6.3	6.5
10.	Percentage who are AOA members	15.1	7.2	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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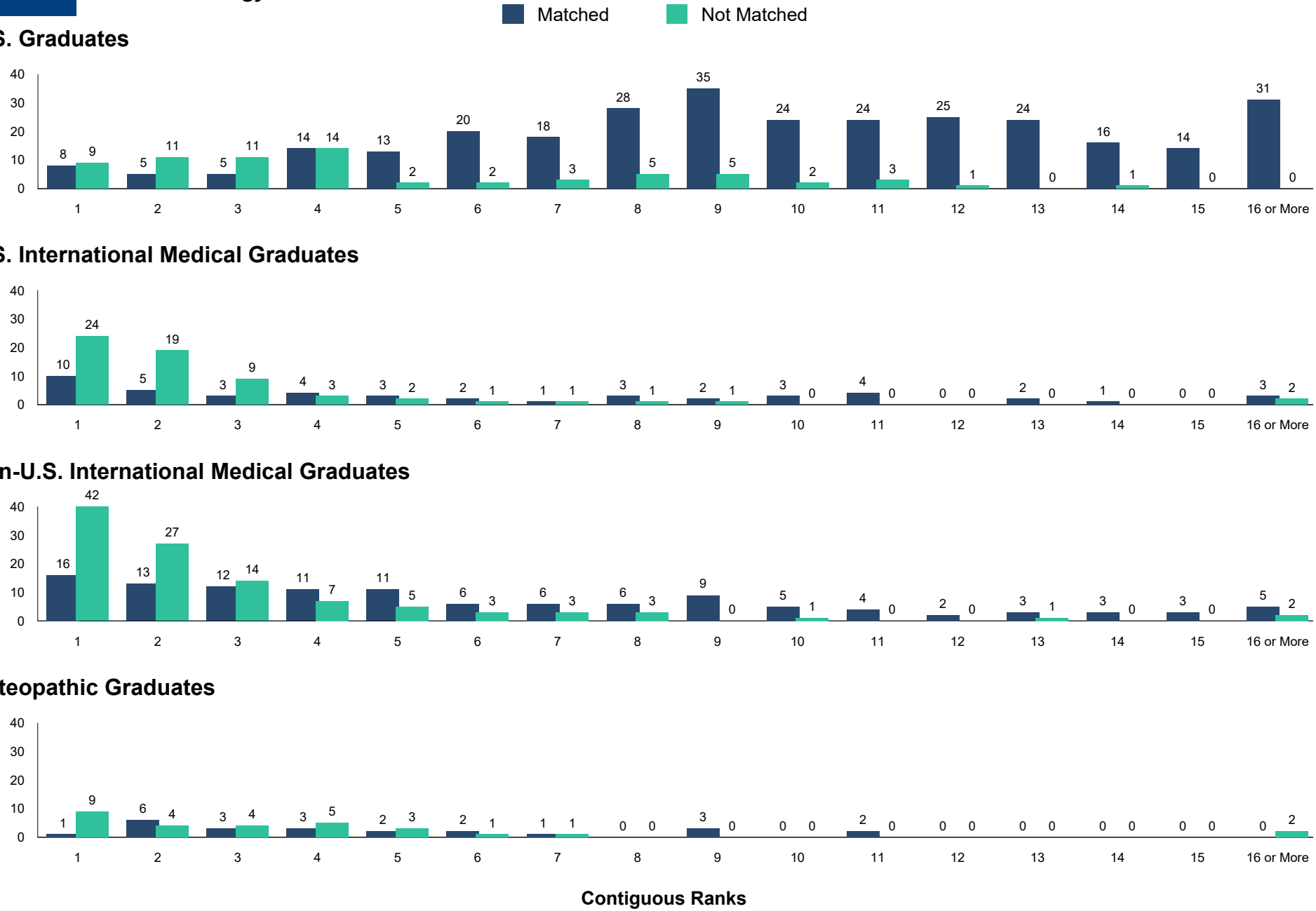
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Gastroenterology



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Gastroenterology

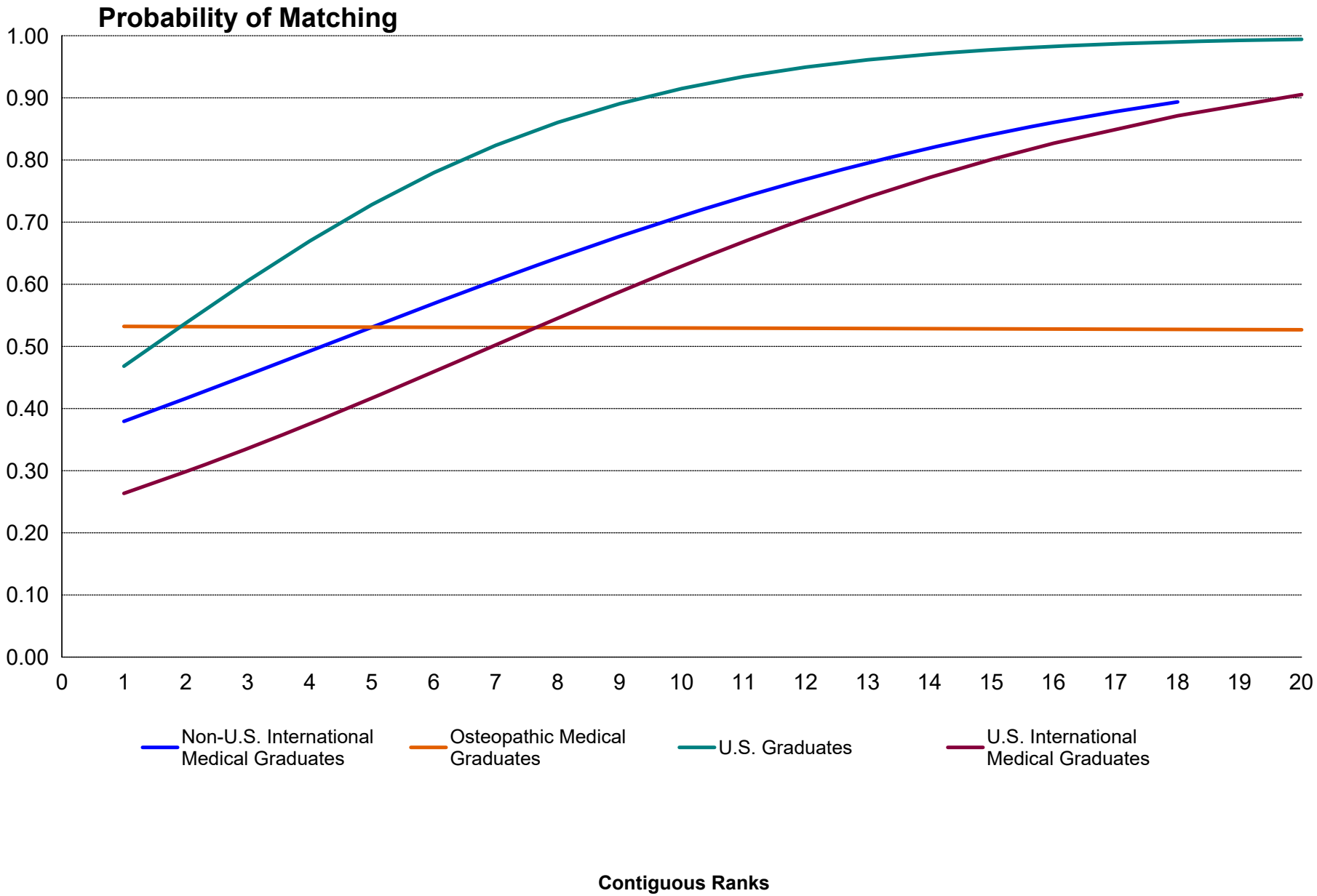

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Chart-2 Number of Distinct Specialties Ranked

Gastroenterology

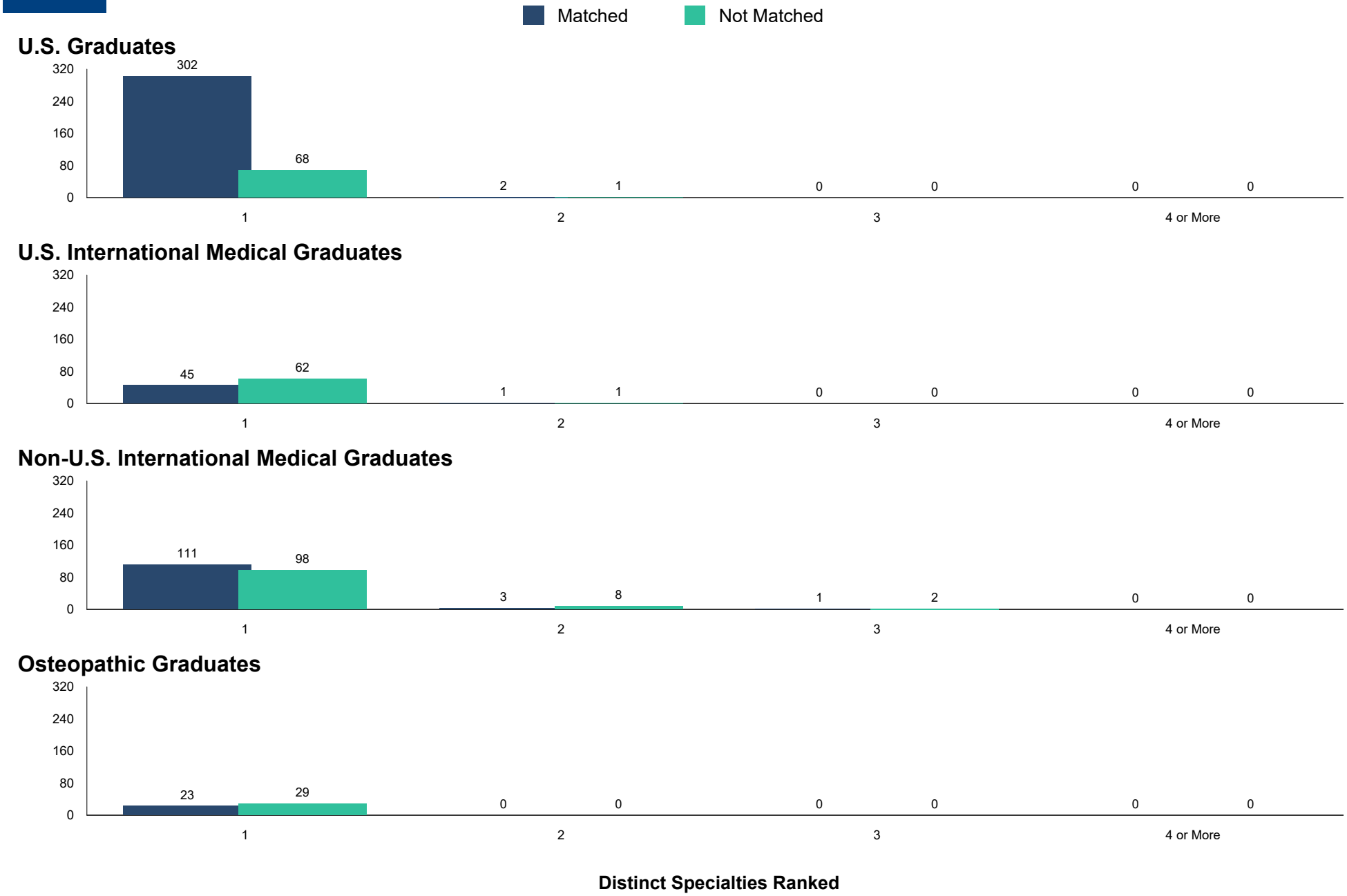

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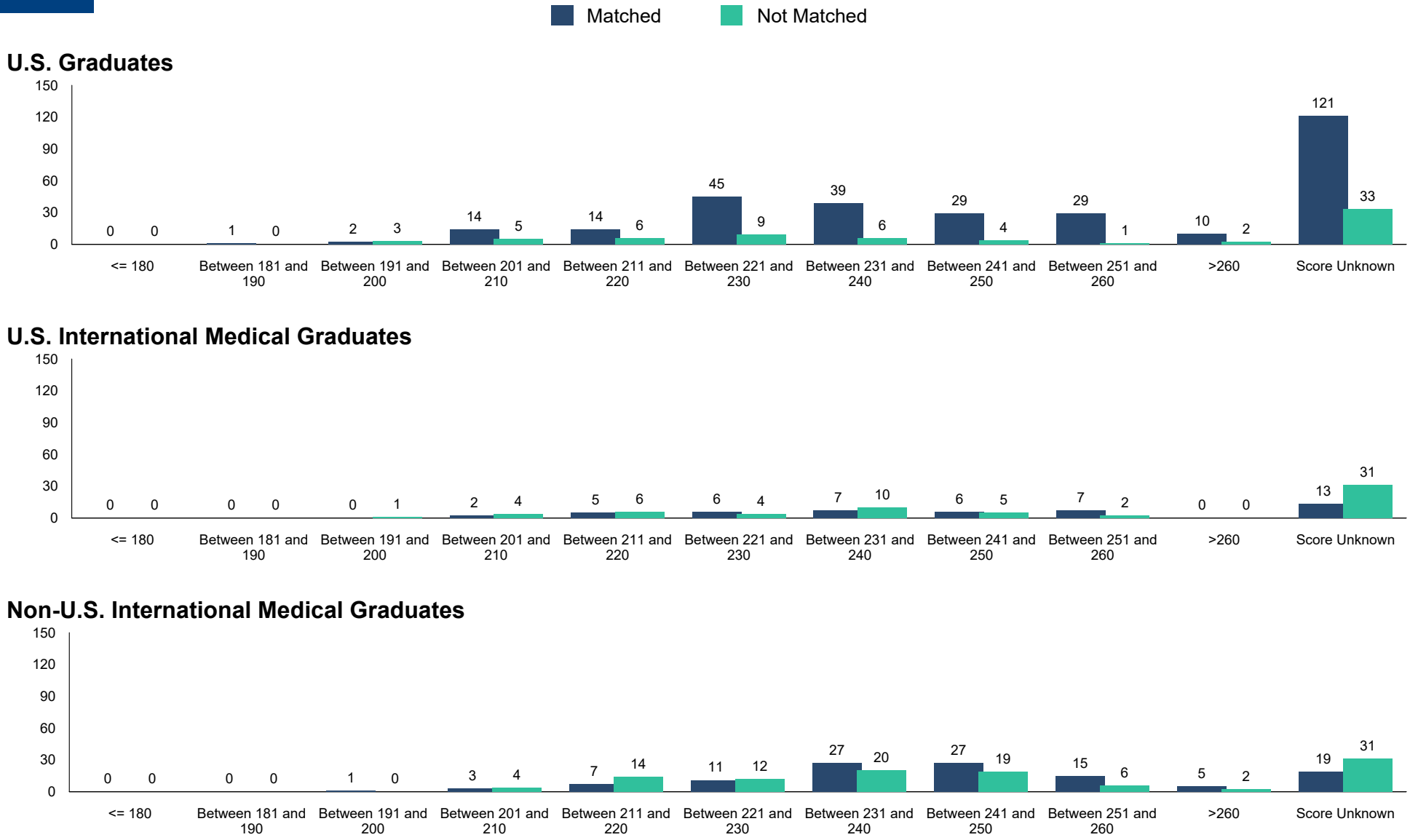
Chart-3 USMLE Step 1 Scores
Gastroenterology



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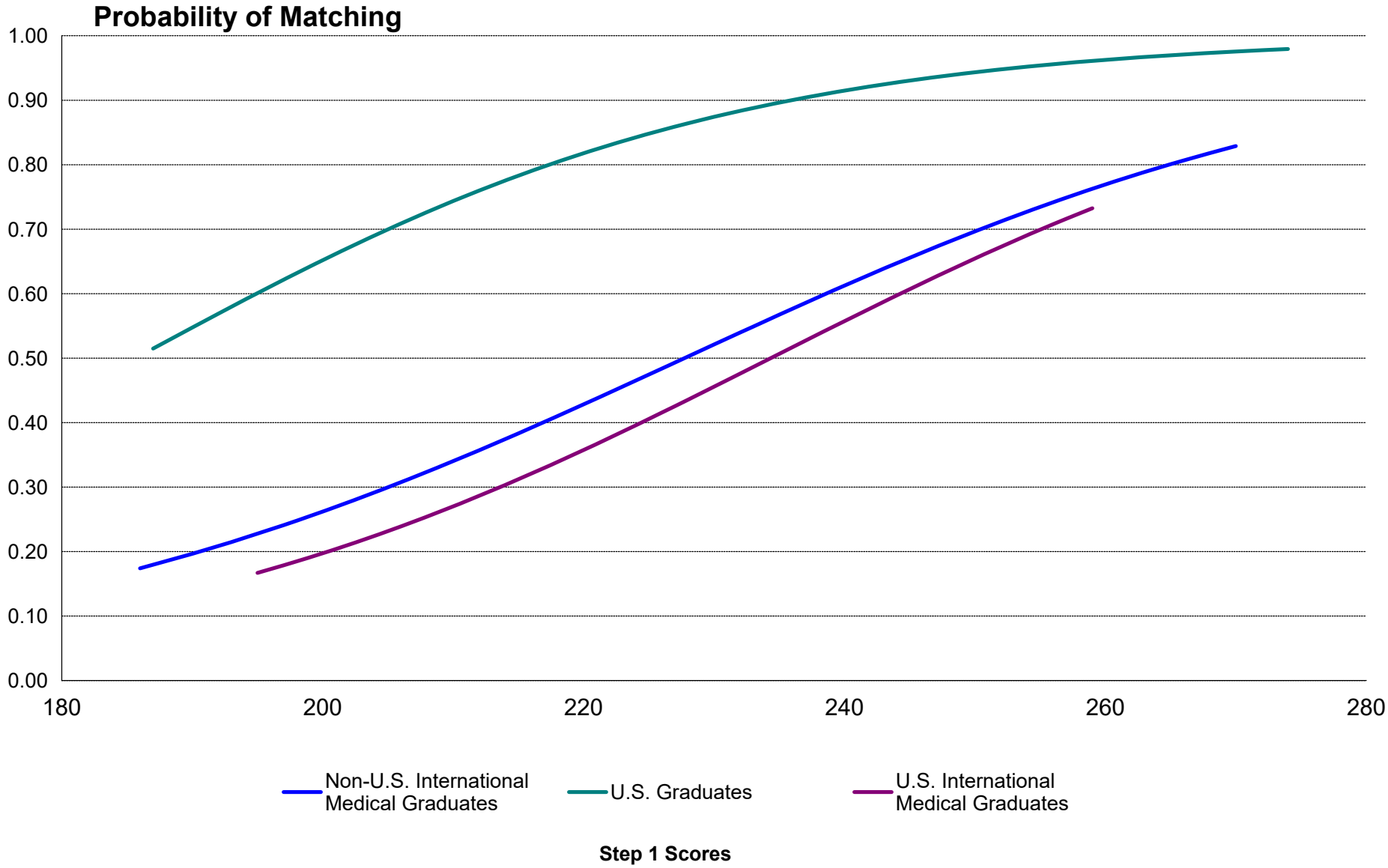
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Gastroenterology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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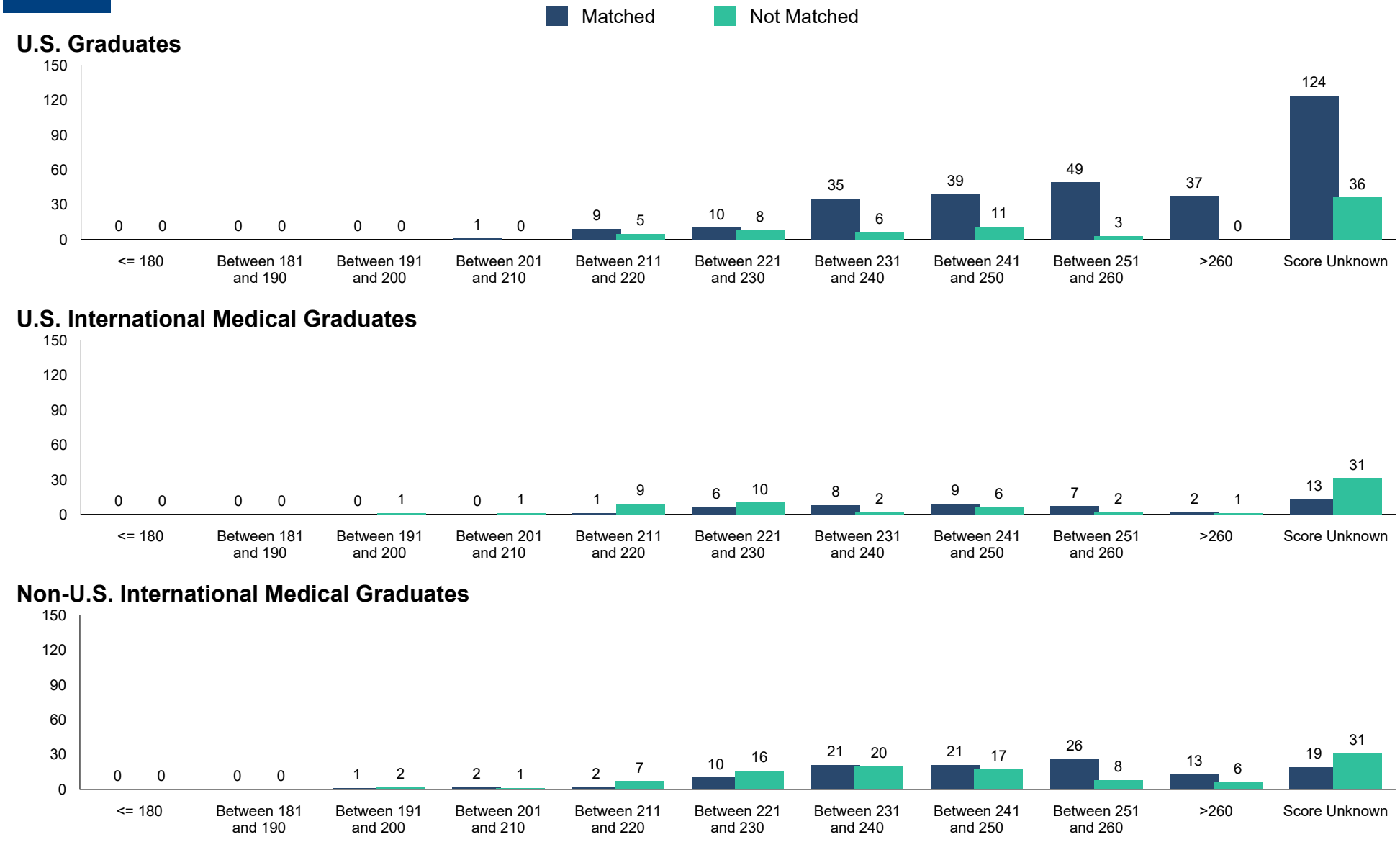
Chart-4 USMLE Step 2 Scores
Gastroenterology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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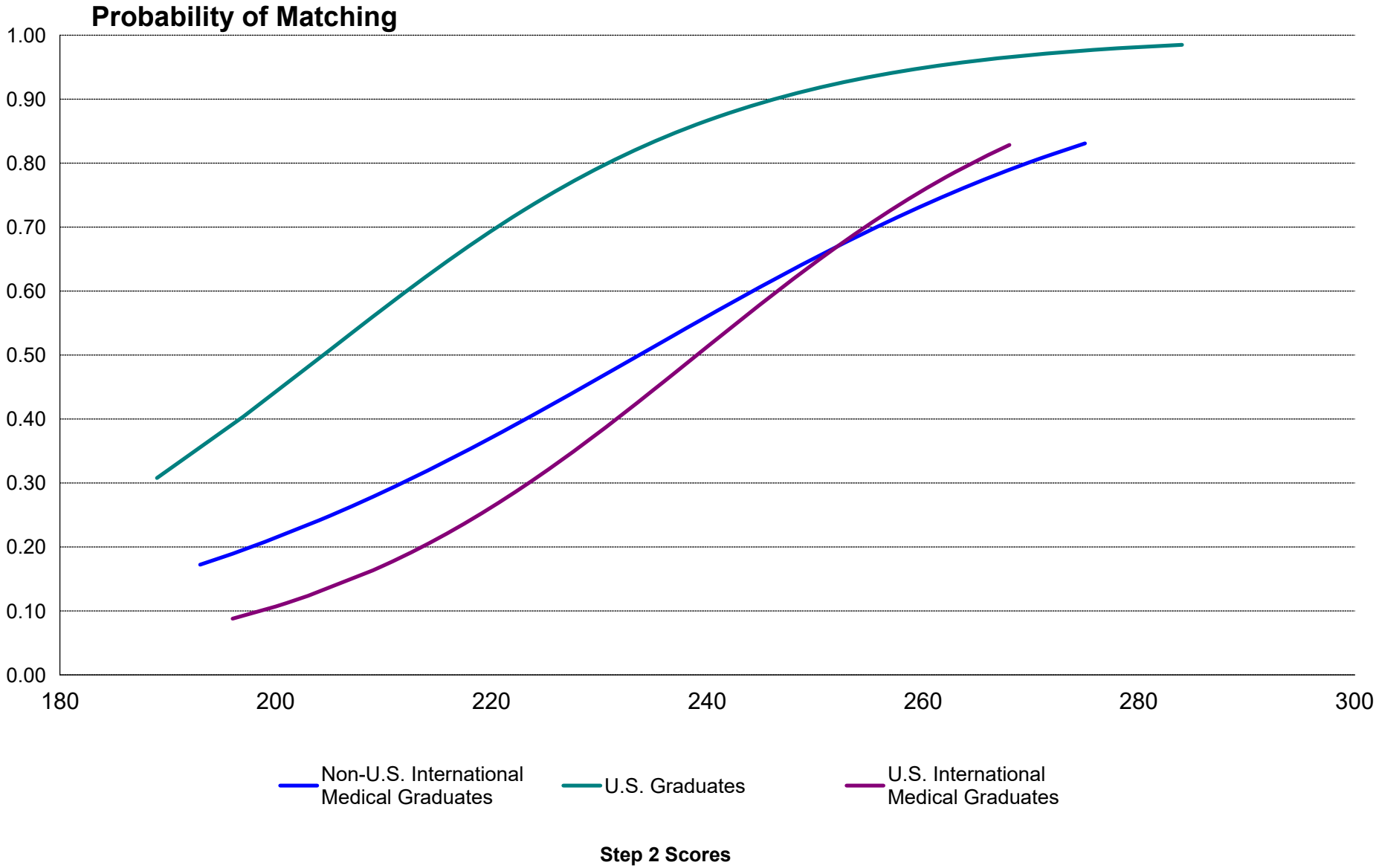
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Gastroenterology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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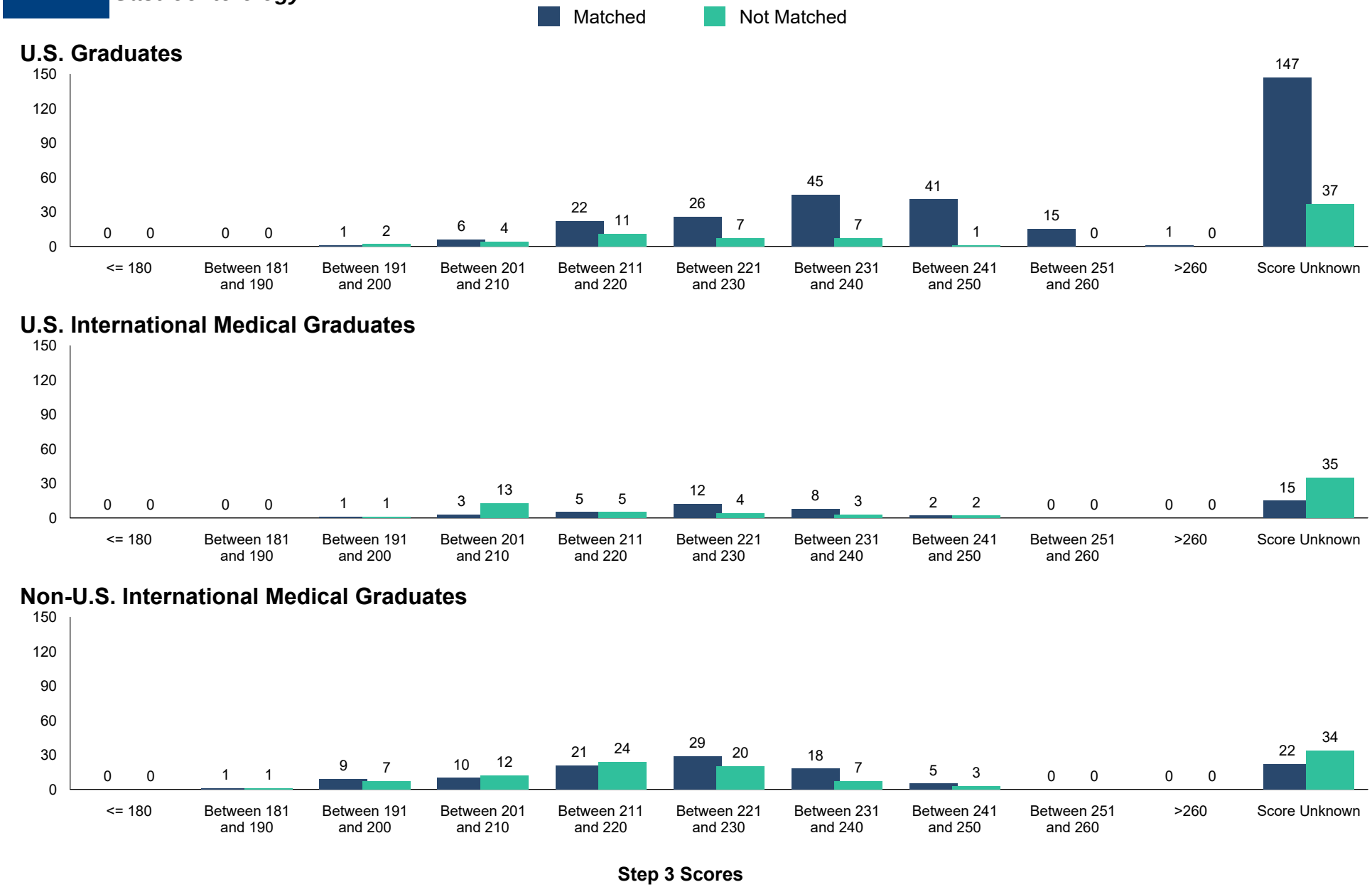
Chart-5 USMLE Step 3 Scores
Gastroenterology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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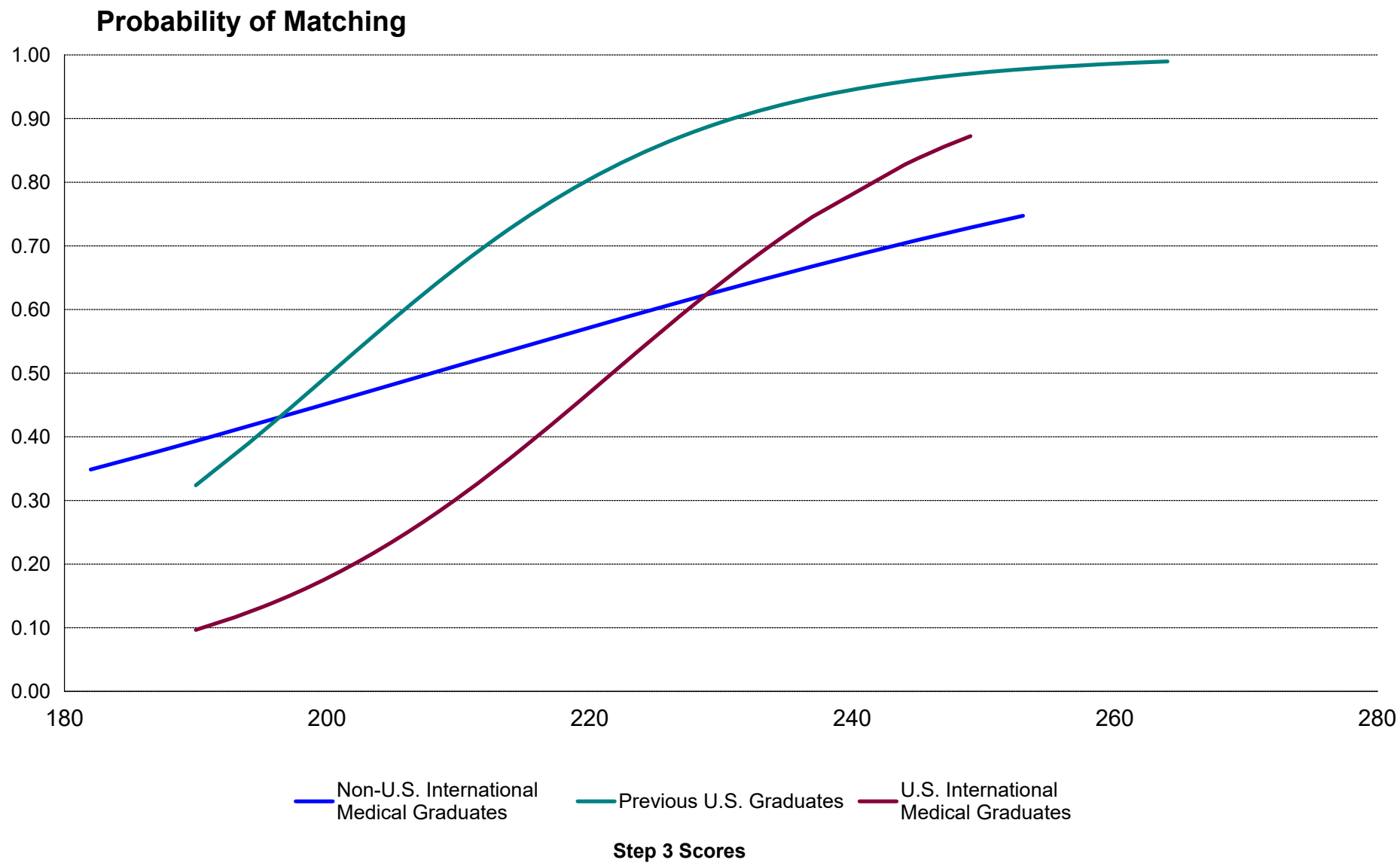
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Gastroenterology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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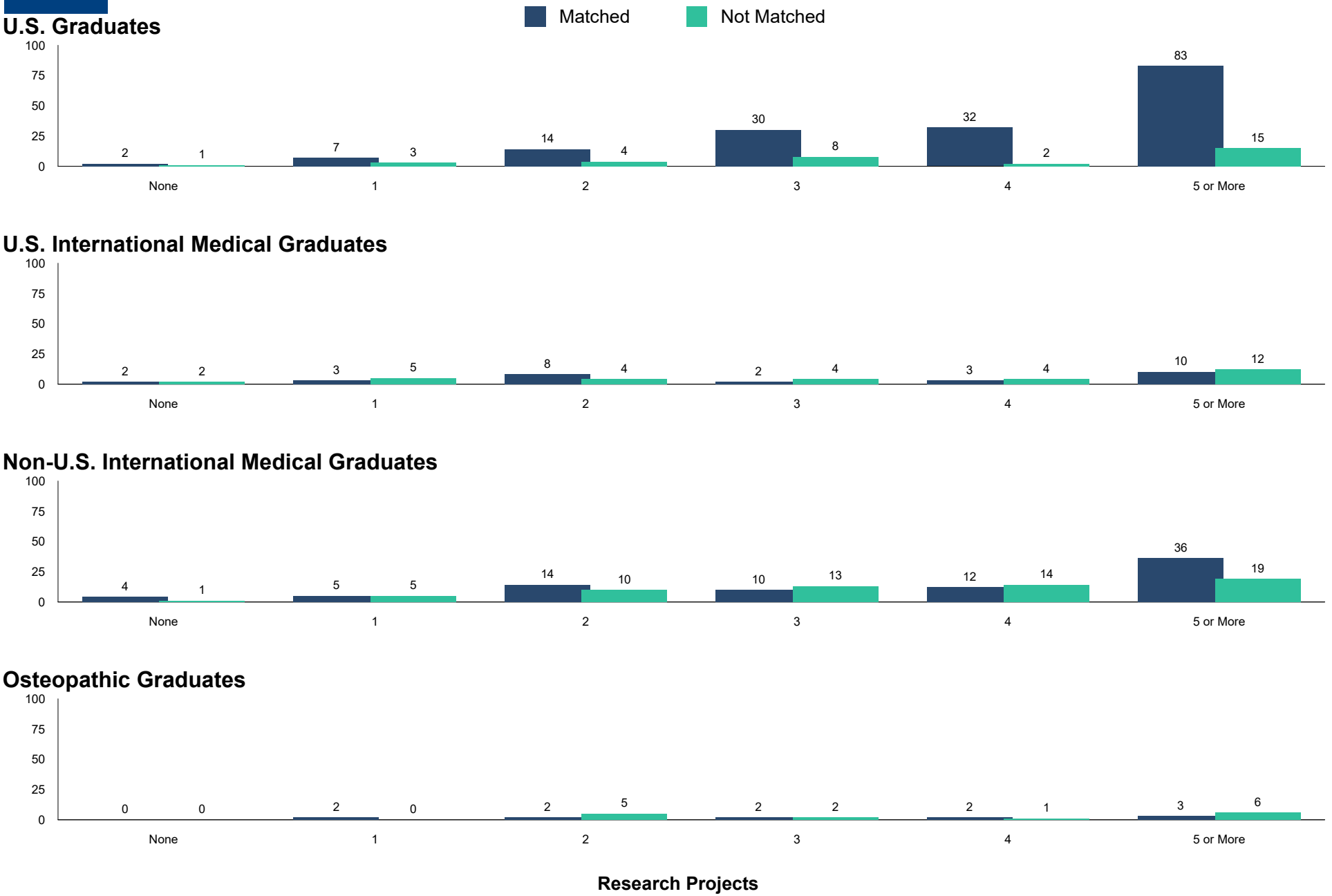
Chart-6 Number of Research Projects
Gastroenterology



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Gastroenterology

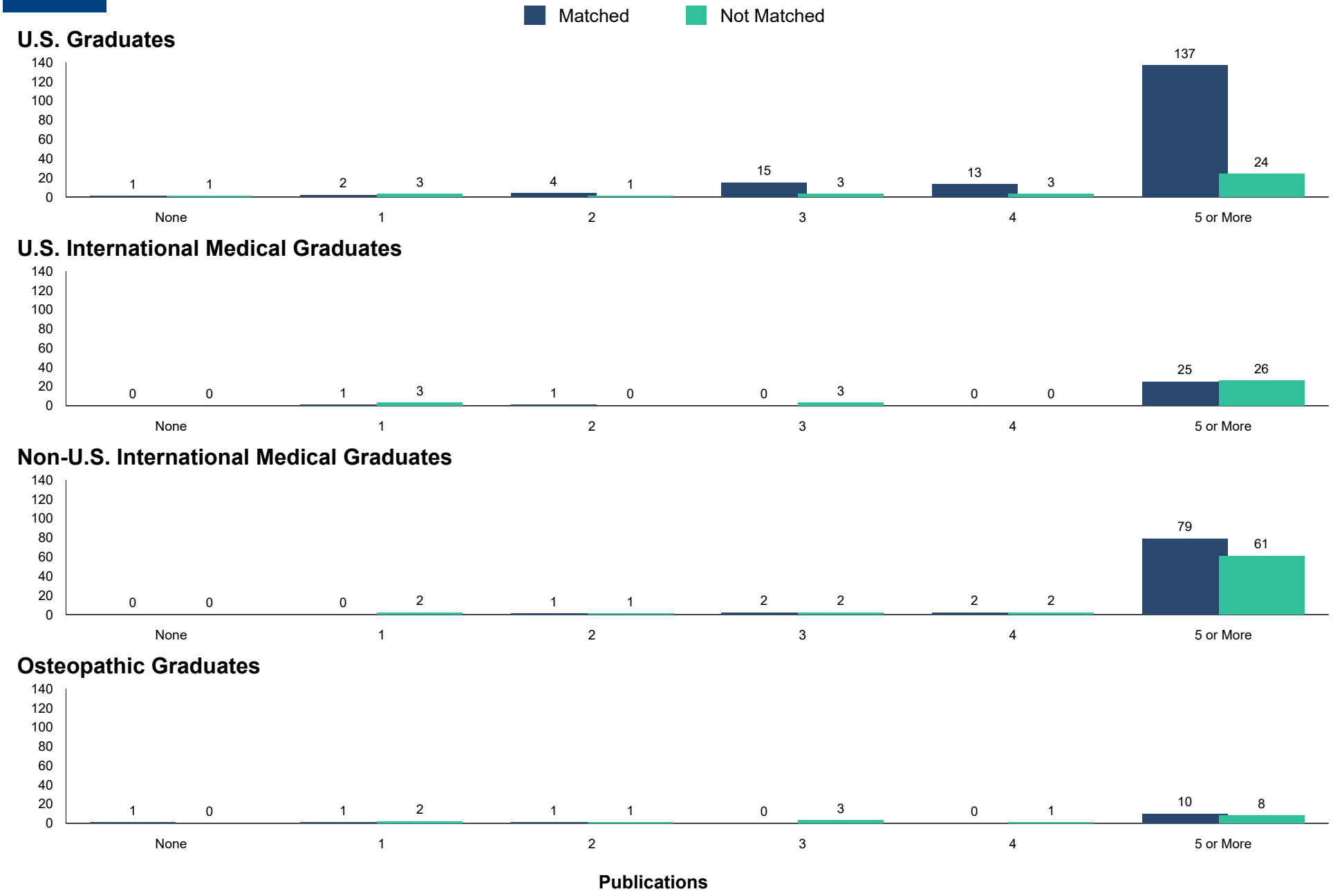

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Chart-8 Number of Work Experiences
Gastroenterology

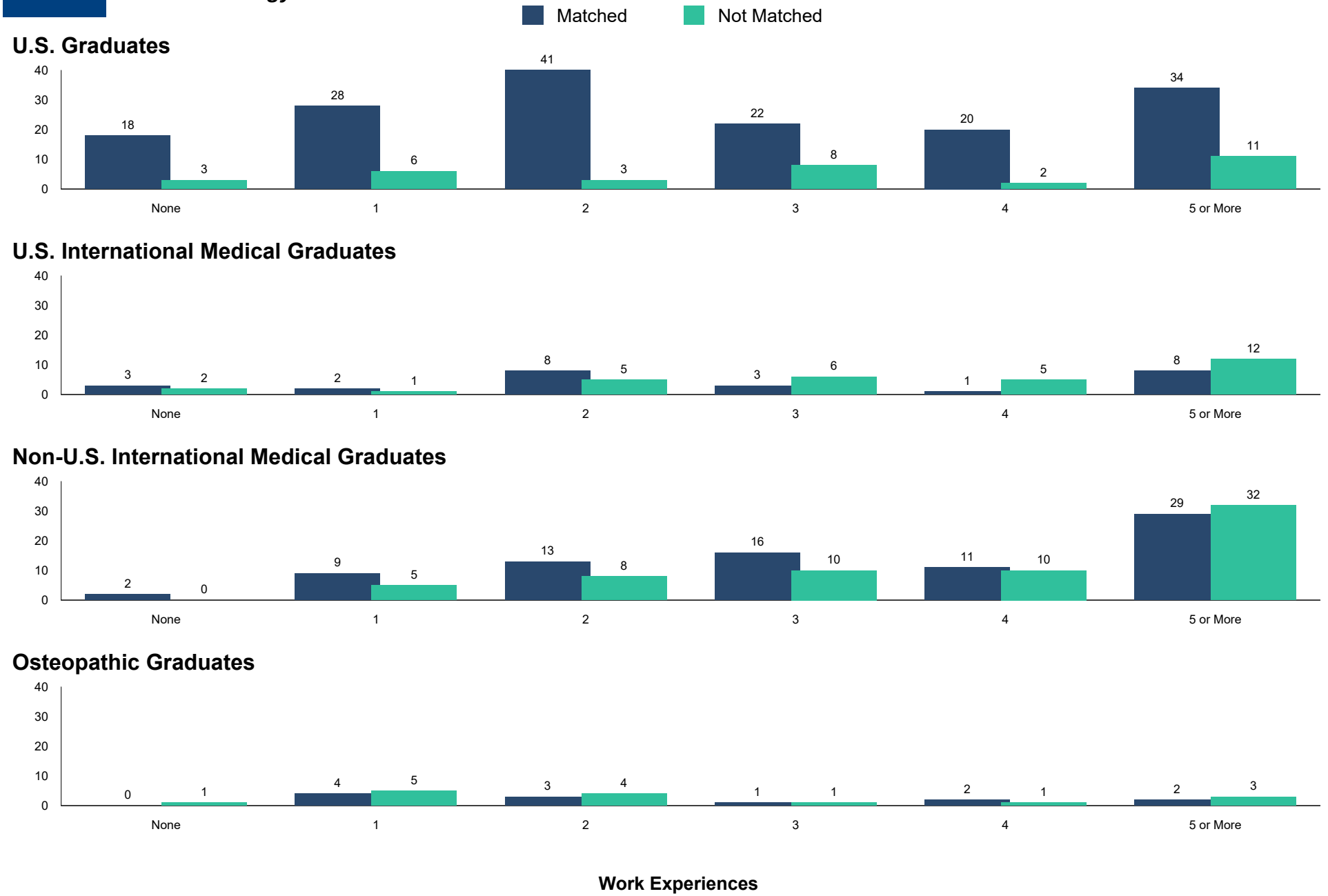

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Chart-9 Number of Volunteer Experiences

Gastroenterology

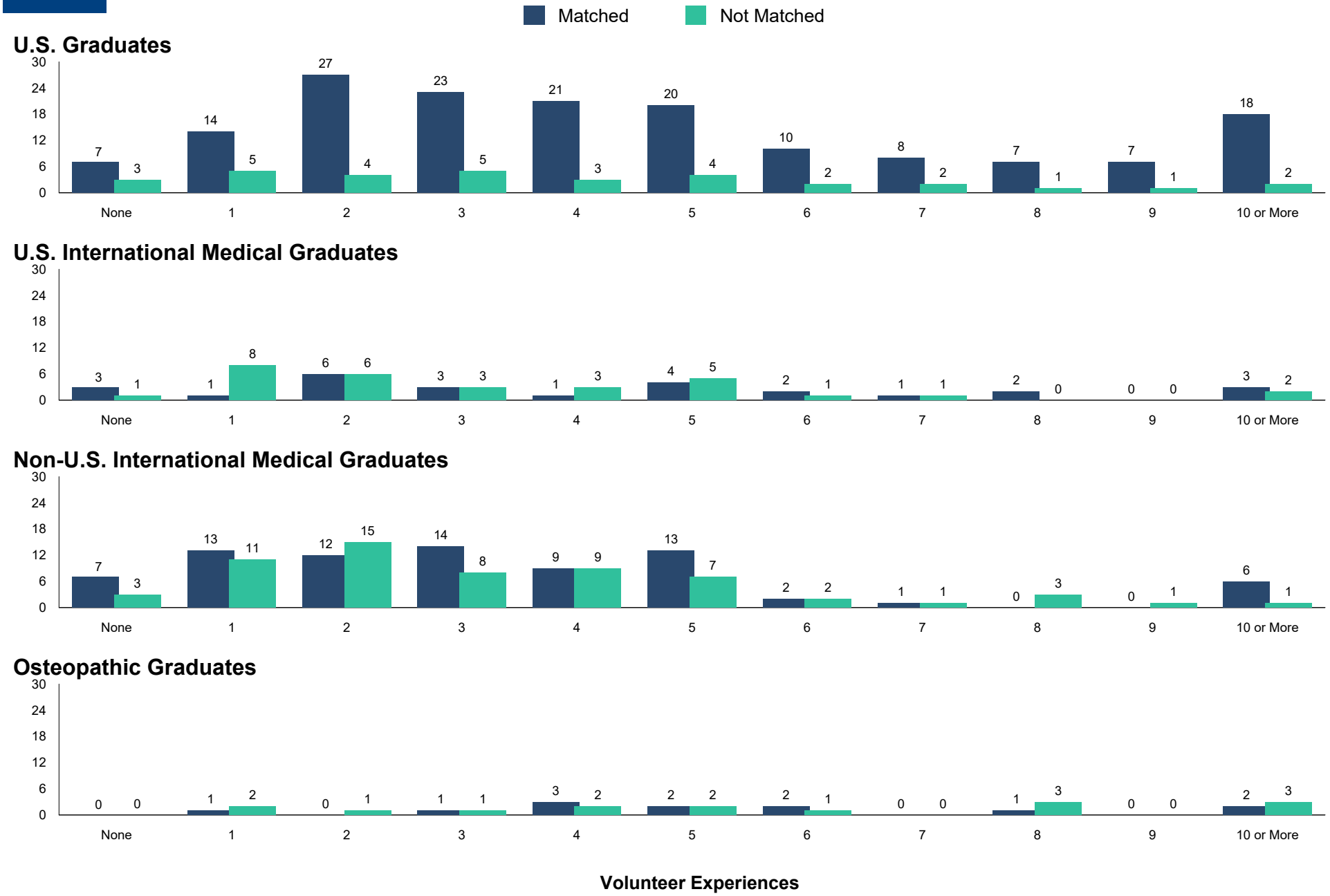

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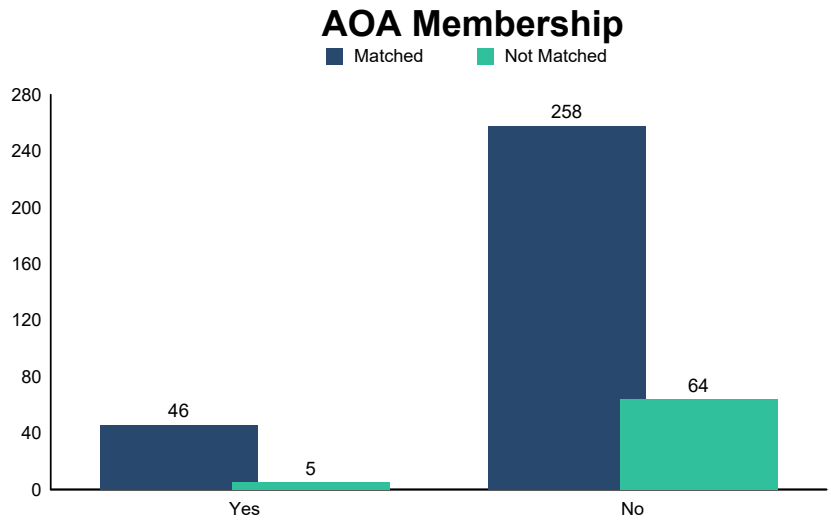
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Gastroenterology



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Geriatric Medicine

Table-1 Summary Statistics
Geriatric Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=66)	Unmatched (n=0)	Matched (n=28)	Unmatched (n=1)	Matched (n=55)	Unmatched (n=4)	Matched (n=19)	Unmatched (n=0)
1.	Mean number of contiguous ranks	3.9	n/a	3.3	n/a	5.3	1.0	2.7	n/a
2.	Mean number of distinct specialties ranked	1.2	n/a	1.4	n/a	1.3	1.5	1.3	n/a
3.	Mean USMLE Step 1 score	235	n/a	214	n/a	222	218	n/a	n/a
4.	Mean USMLE Step 2 score	246	n/a	223	n/a	230	237	n/a	n/a
5.	Mean USMLE Step 3 score	232	n/a	212	n/a	213	208	n/a	n/a
6.	Mean number of research experiences	3.8	n/a	2.6	n/a	2.3	1.5	2.7	n/a
7.	Mean number of abstracts, presentations, and publications	5.3	n/a	4.4	n/a	6.2	6.5	3.6	n/a
8.	Mean number of work experiences	2.9	n/a	5.4	n/a	5.1	4.5	3.2	n/a
9.	Mean number of volunteer experiences	6.1	n/a	4.6	n/a	3.0	2.0	5.2	n/a
10.	Percentage who are AOA members	16.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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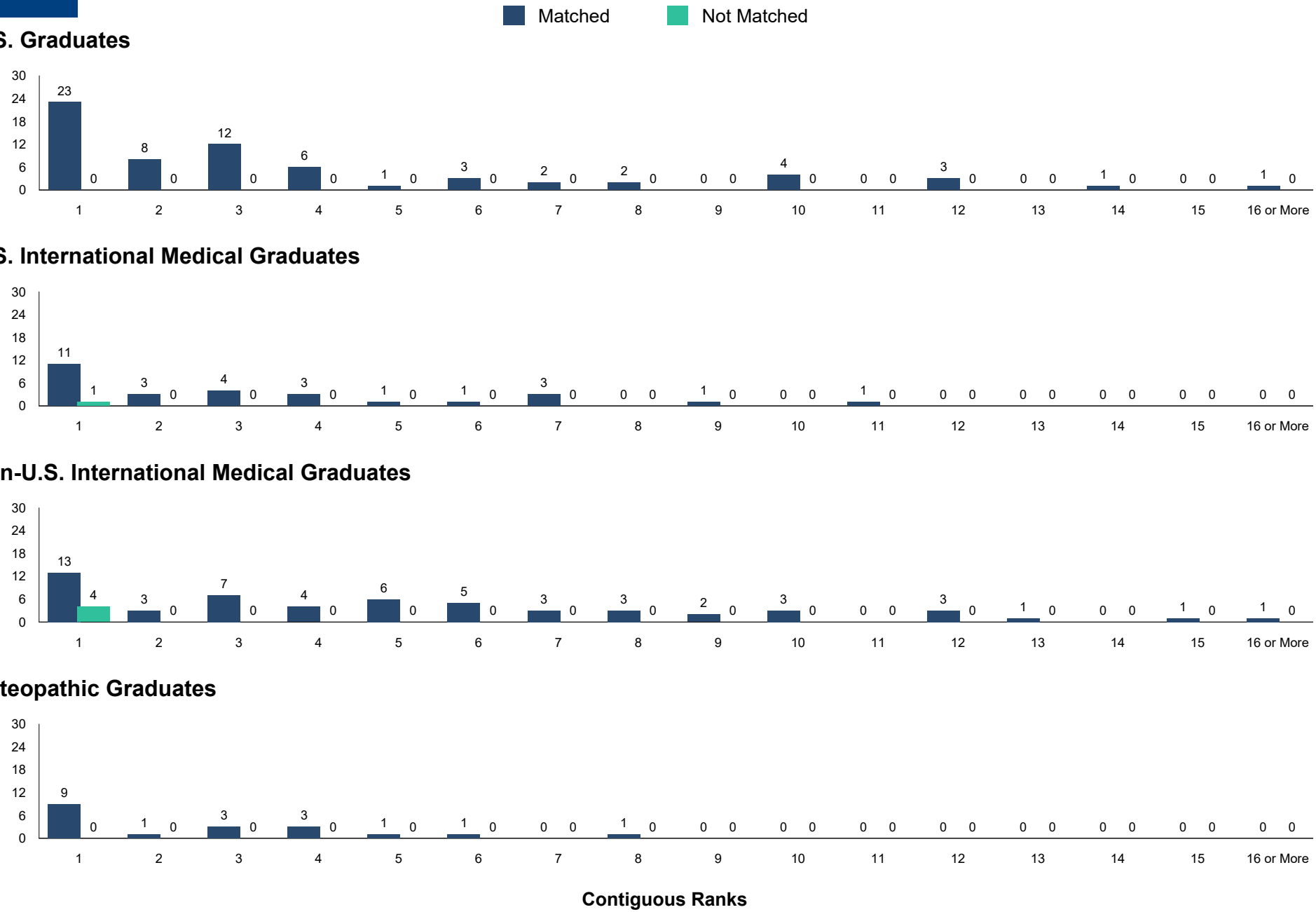
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Geriatric Medicine



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Geriatric Medicine

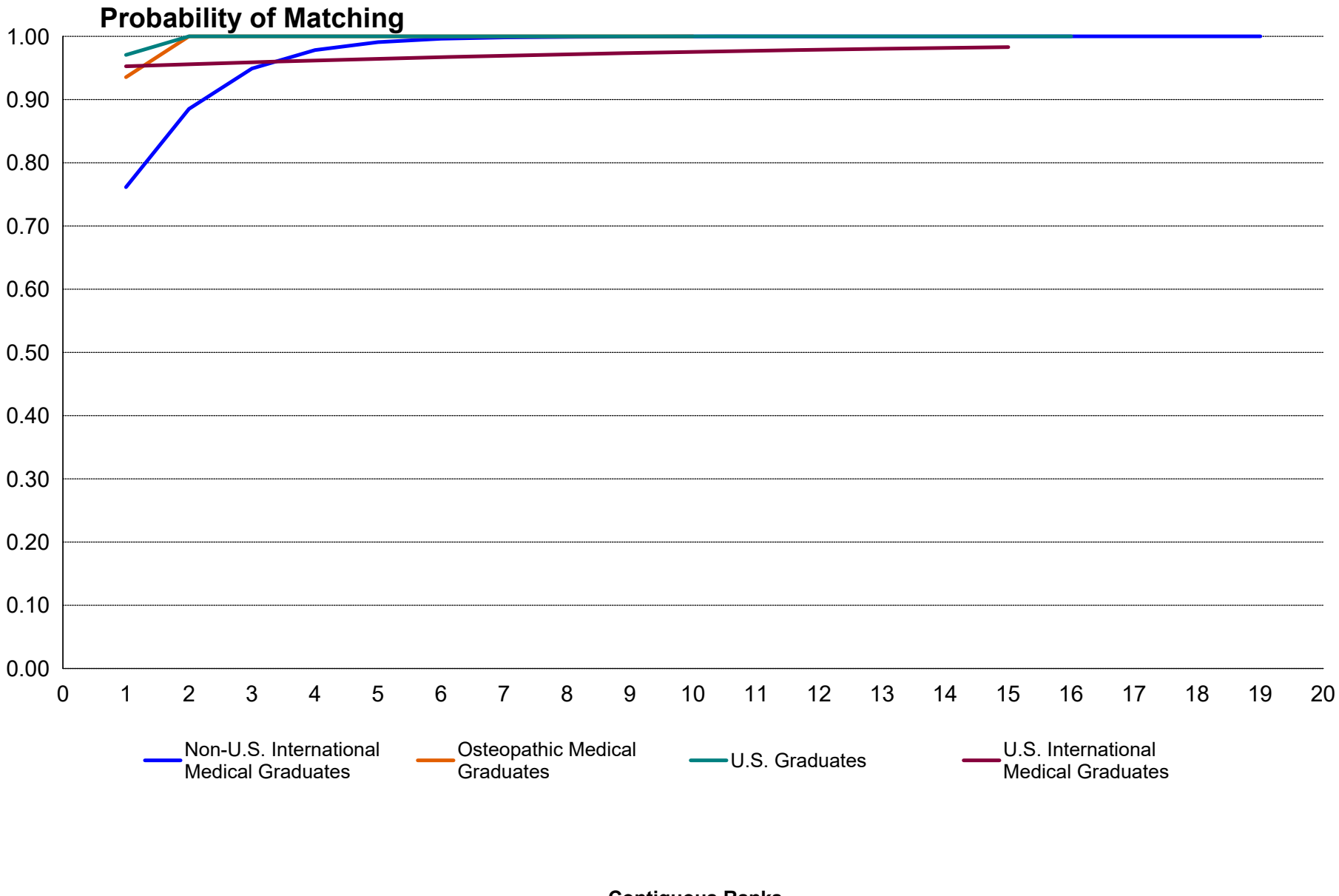

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Chart-2 Number of Distinct Specialties Ranked

Geriatric Medicine

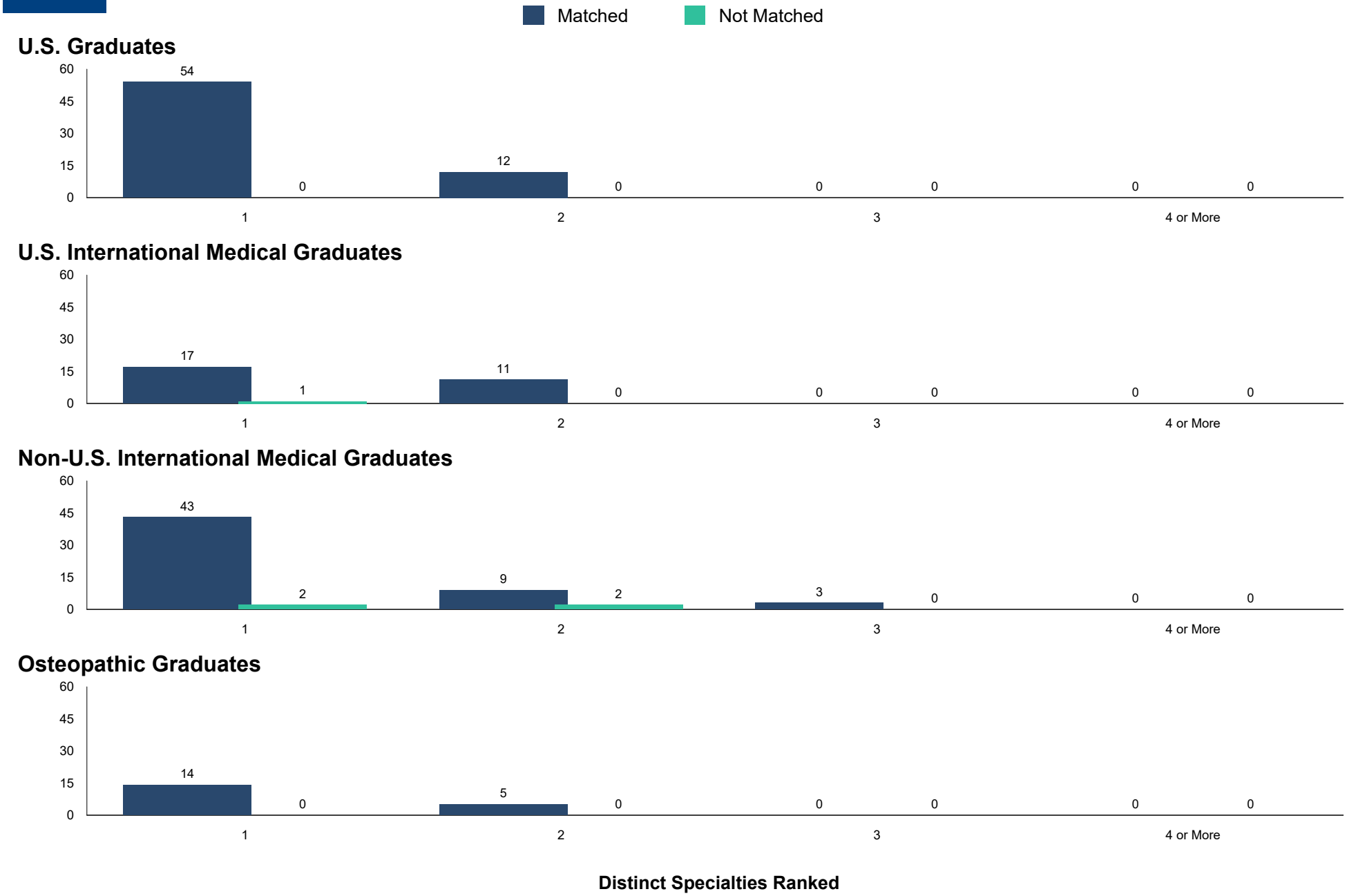

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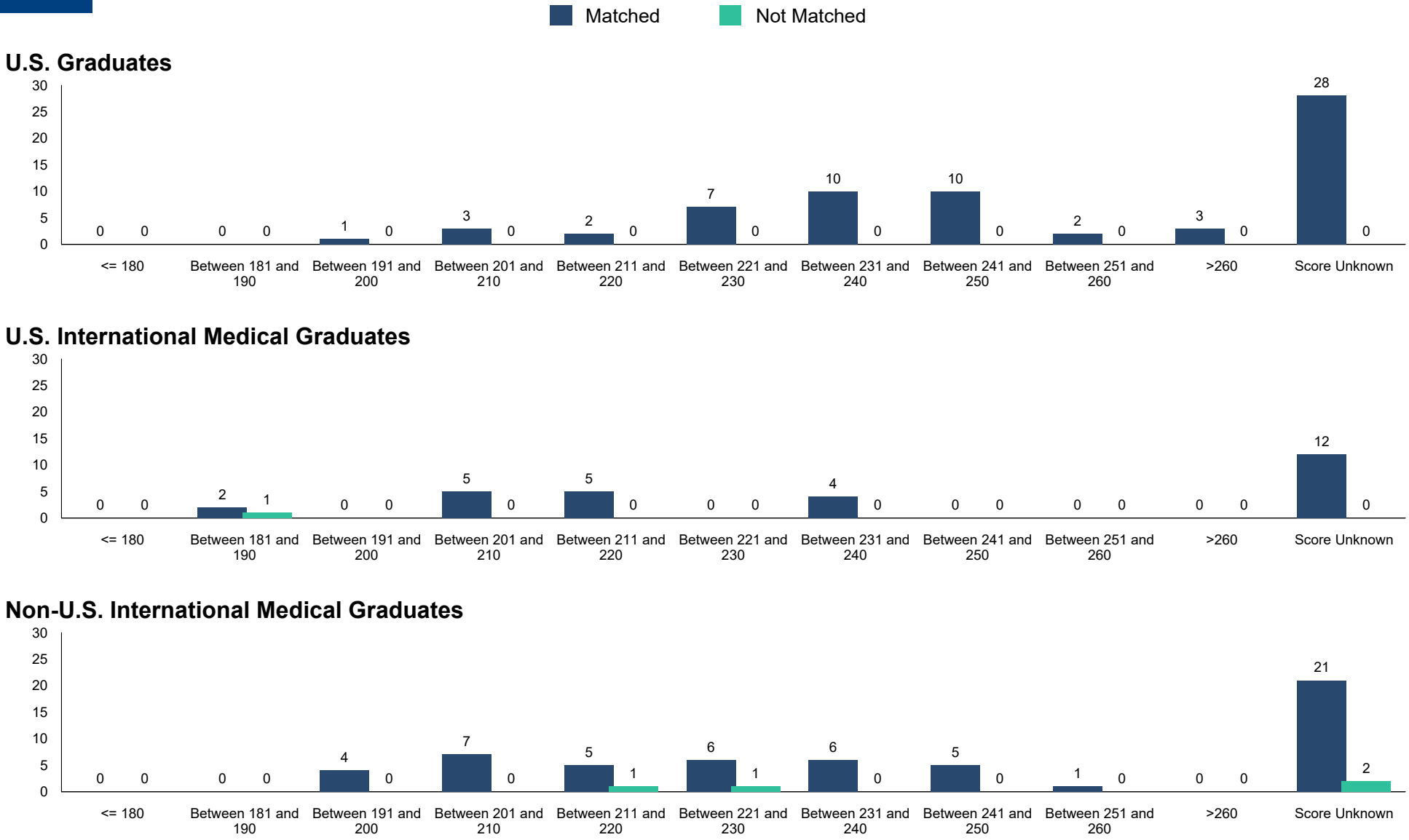
Chart-3 USMLE Step 1 Scores

Geriatric Medicine



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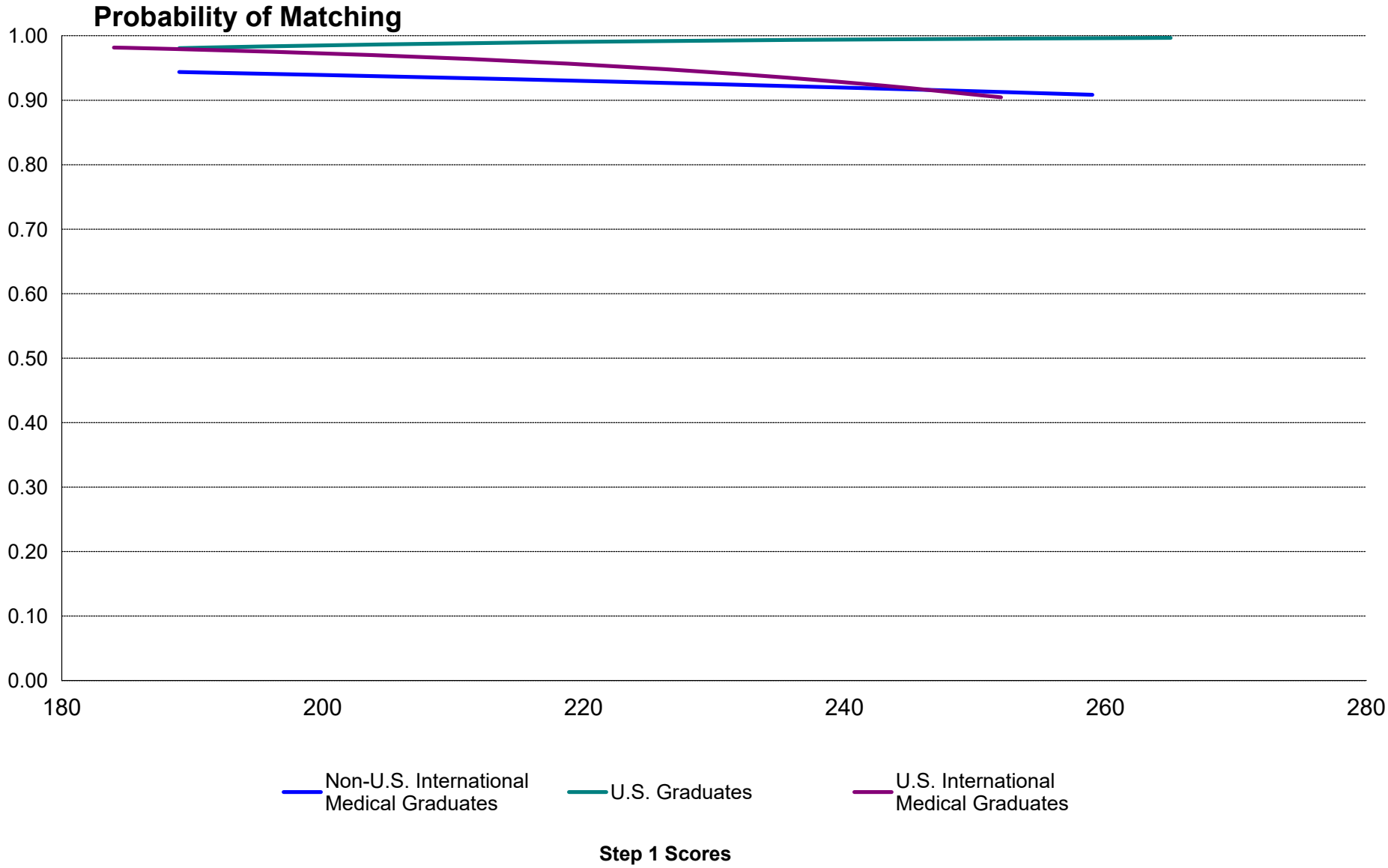
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Geriatric Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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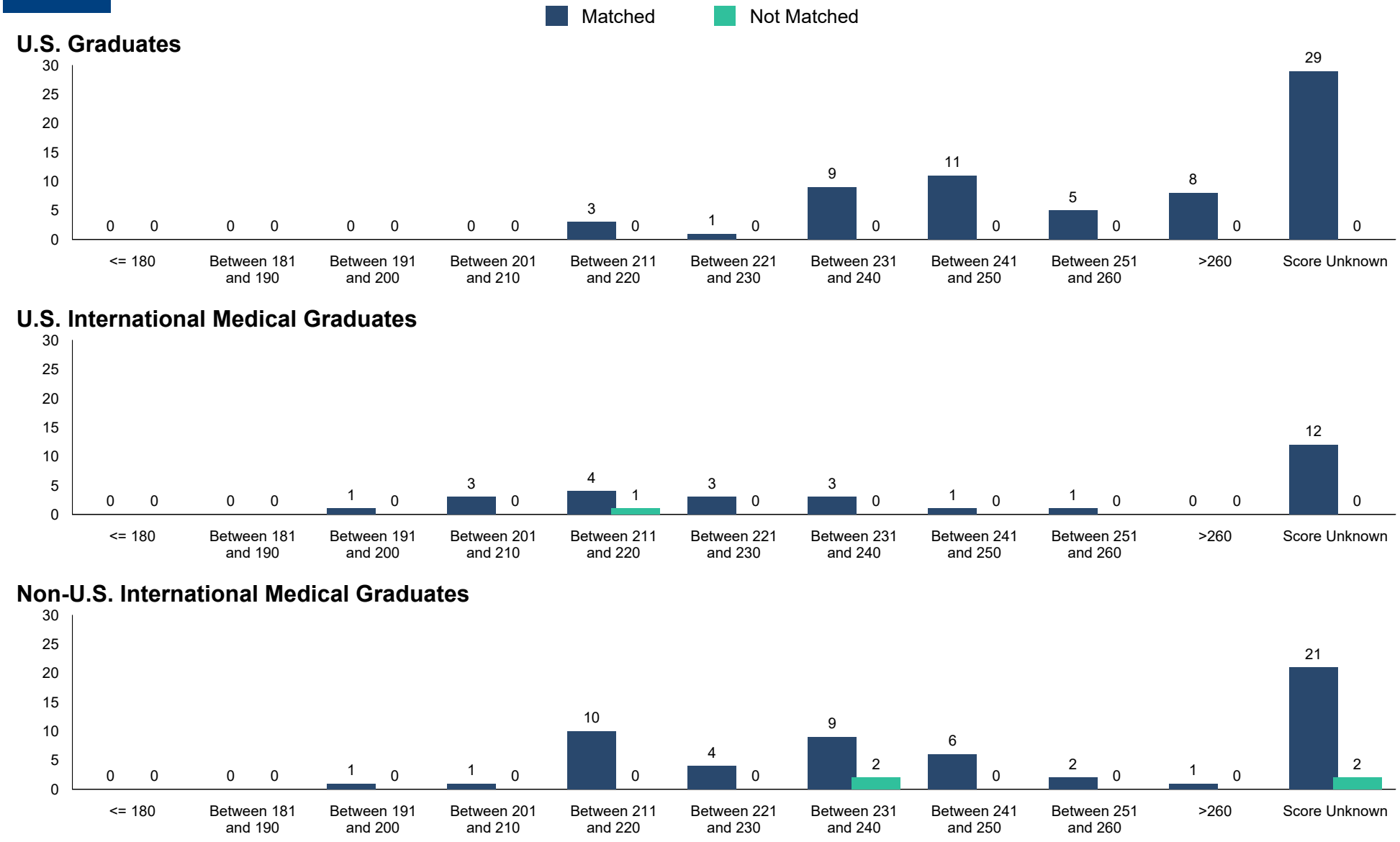
Chart-4 USMLE Step 2 Scores

Geriatric Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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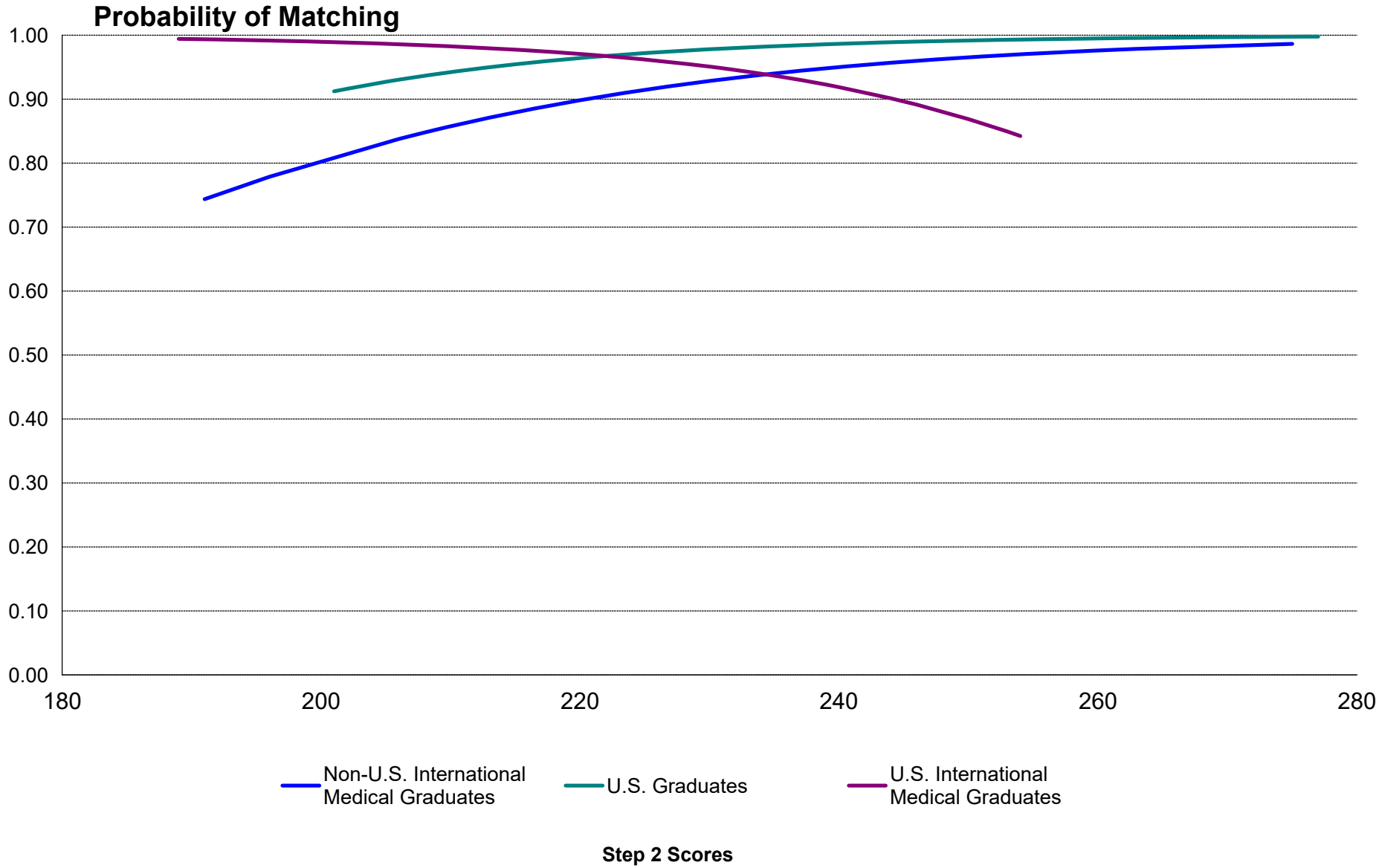
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Geriatric Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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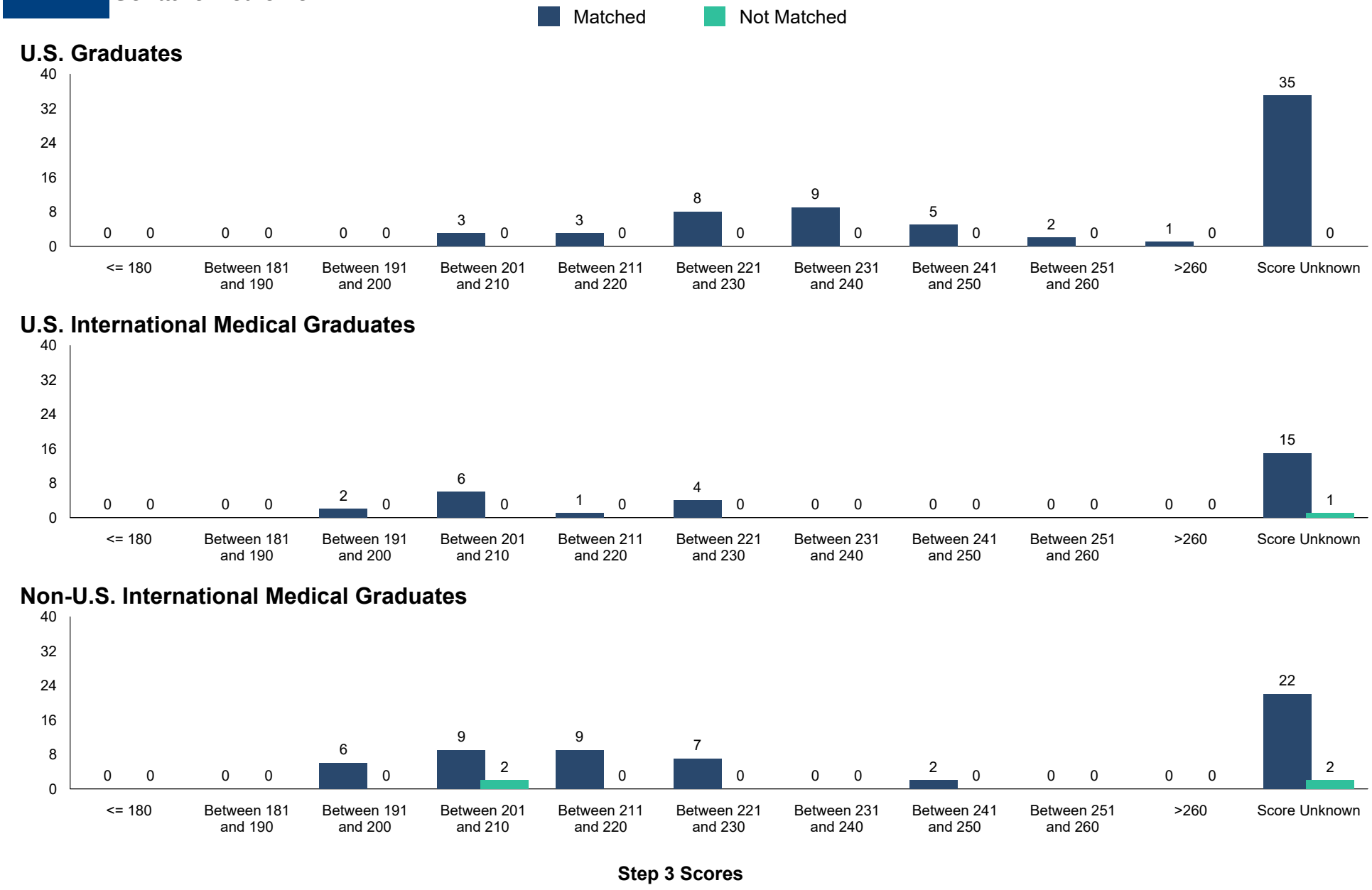
Chart-5 USMLE Step 3 Scores
Geriatric Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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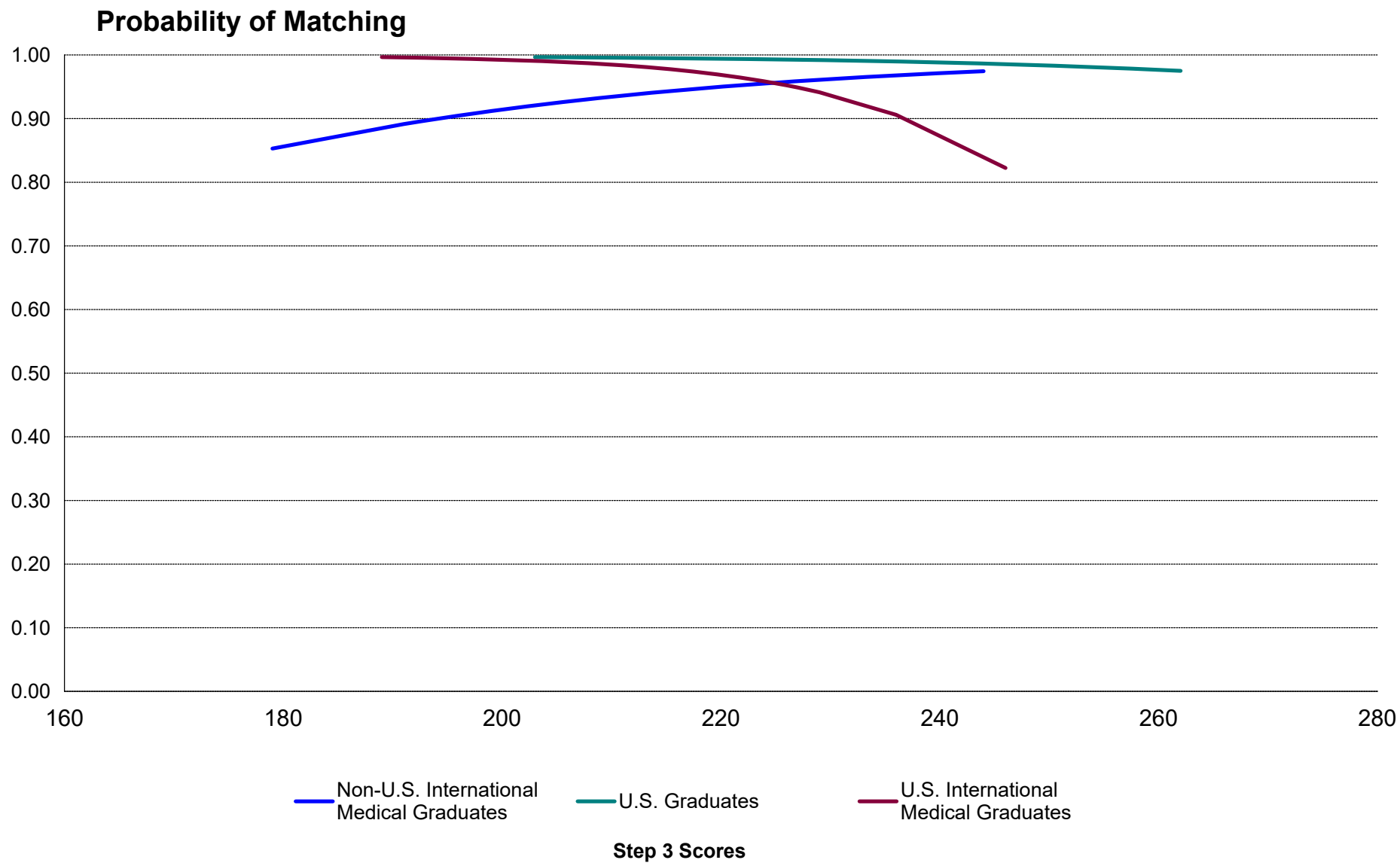
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Geriatric Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects
Geriatric Medicine

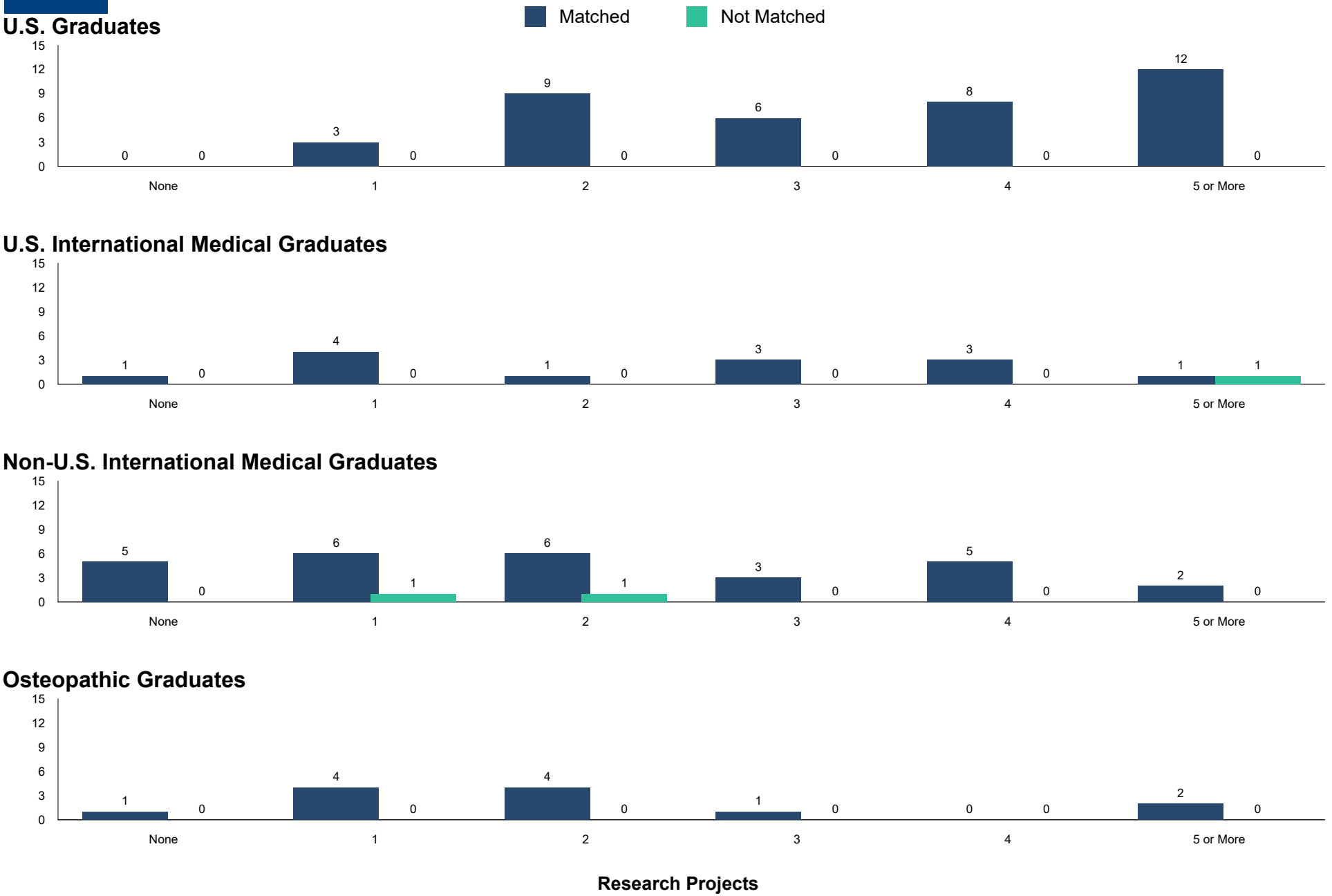

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Chart-7 Number of Abstracts, Presentations, and Publications

Geriatric Medicine

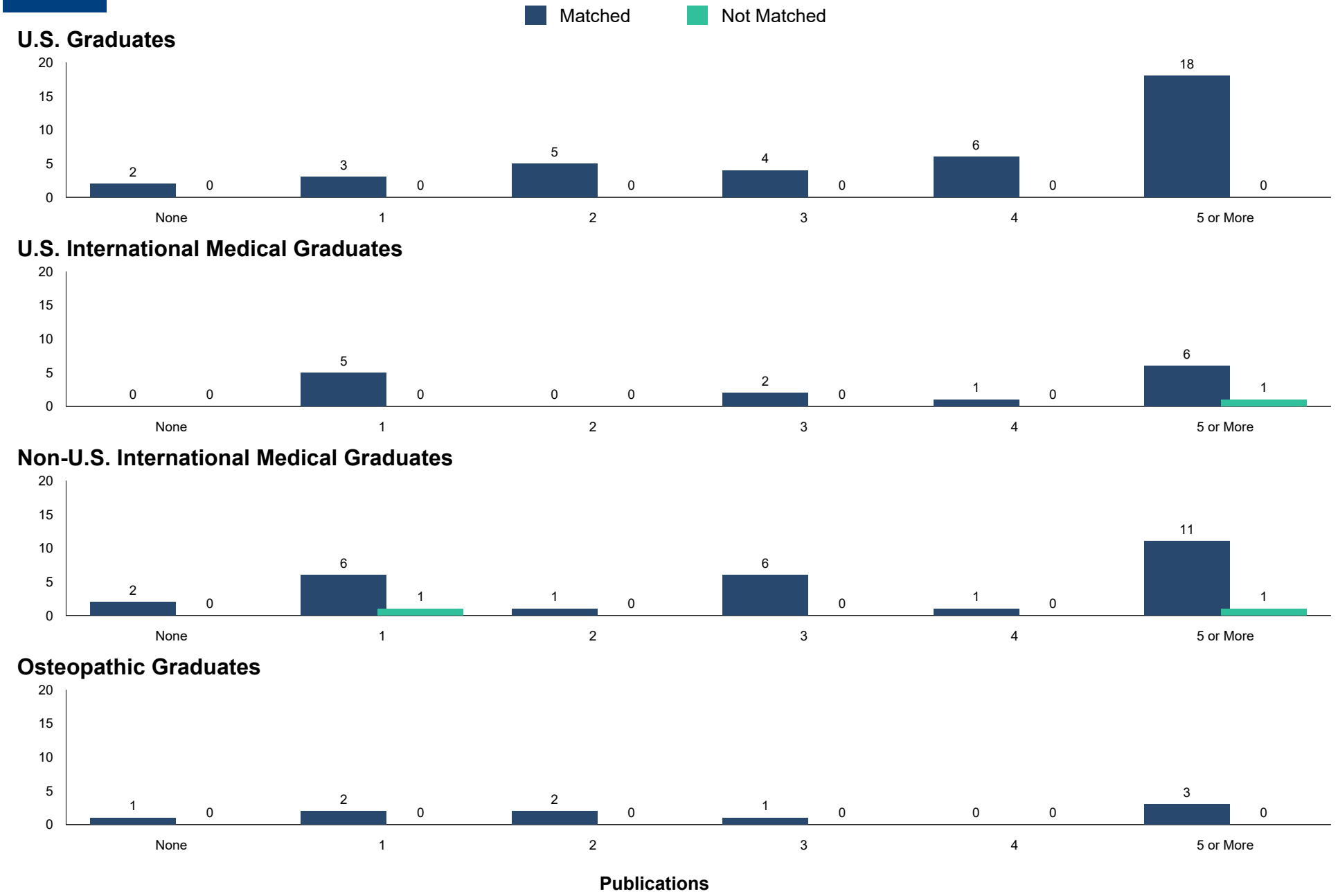

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Chart-8 Number of Work Experiences

Geriatric Medicine

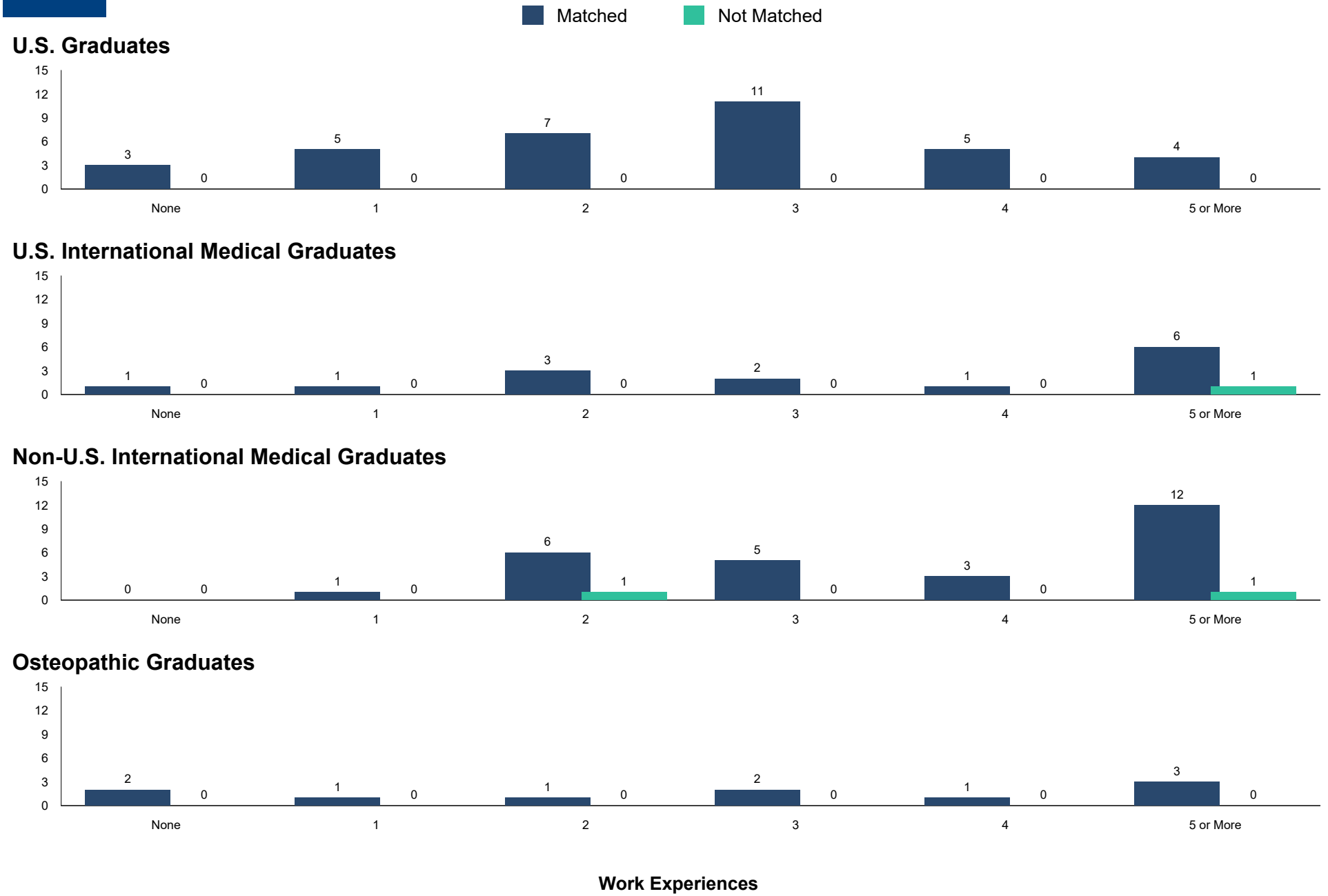

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Chart-9 Number of Volunteer Experiences

Geriatric Medicine

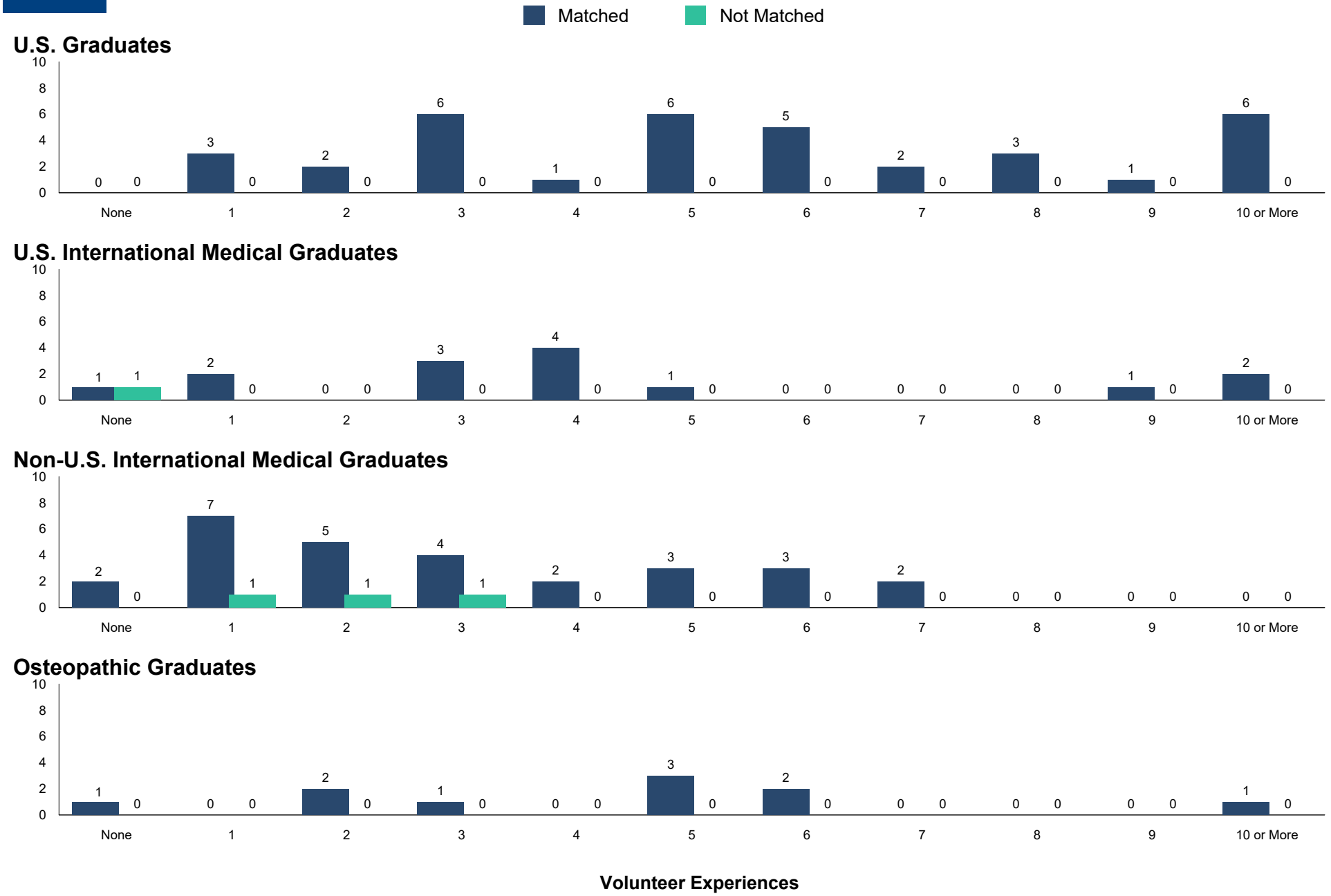

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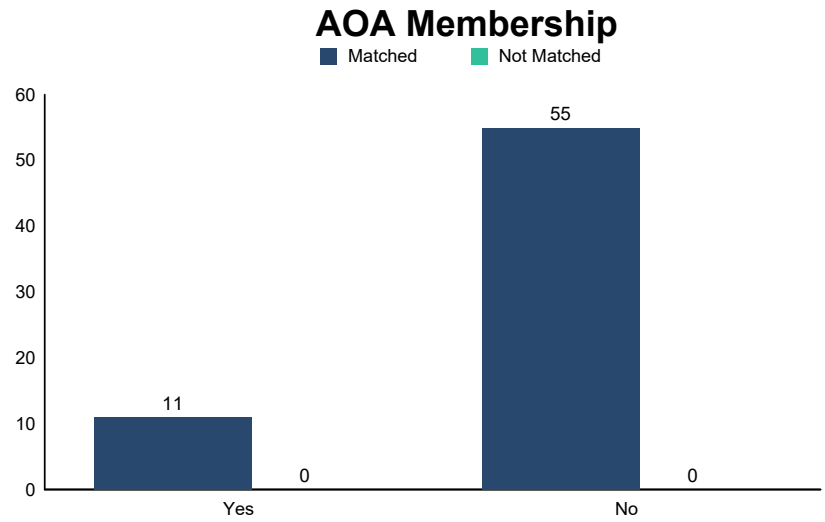
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Geriatric Medicine



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Hand Surgery

Table-1 Summary Statistics
Hand Surgery

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=154)	Unmatched (n=9)	Matched (n=2)	Unmatched (n=0)	Matched (n=5)	Unmatched (n=3)	Matched (n=6)	Unmatched (n=1)
1.	Mean number of contiguous ranks	7.1	3.1	n/a	n/a	1.6	5.3	6.7	1.0
2.	Mean number of distinct specialties ranked	1.9	1.8	n/a	n/a	2.6	1.7	2.0	1.0
3.	Mean USMLE Step 1 score	242	237	n/a	n/a	228	228	n/a	n/a
4.	Mean USMLE Step 2 score	248	253	n/a	n/a	232	241	n/a	n/a
5.	Mean USMLE Step 3 score	220	228	n/a	n/a	212	241	n/a	n/a
6.	Mean number of research experiences	8.3	7.2	n/a	n/a	7.8	5.5	12.5	n/a
7.	Mean number of abstracts, presentations, and publications	13.9	14.0	n/a	n/a	22.8	40.0	22.0	n/a
8.	Mean number of work experiences	2.8	2.8	n/a	n/a	3.5	5.5	4.3	n/a
9.	Mean number of volunteer experiences	4.7	4.4	n/a	n/a	3.5	3.0	4.3	n/a
10.	Percentage who are AOA members	29.9	33.3	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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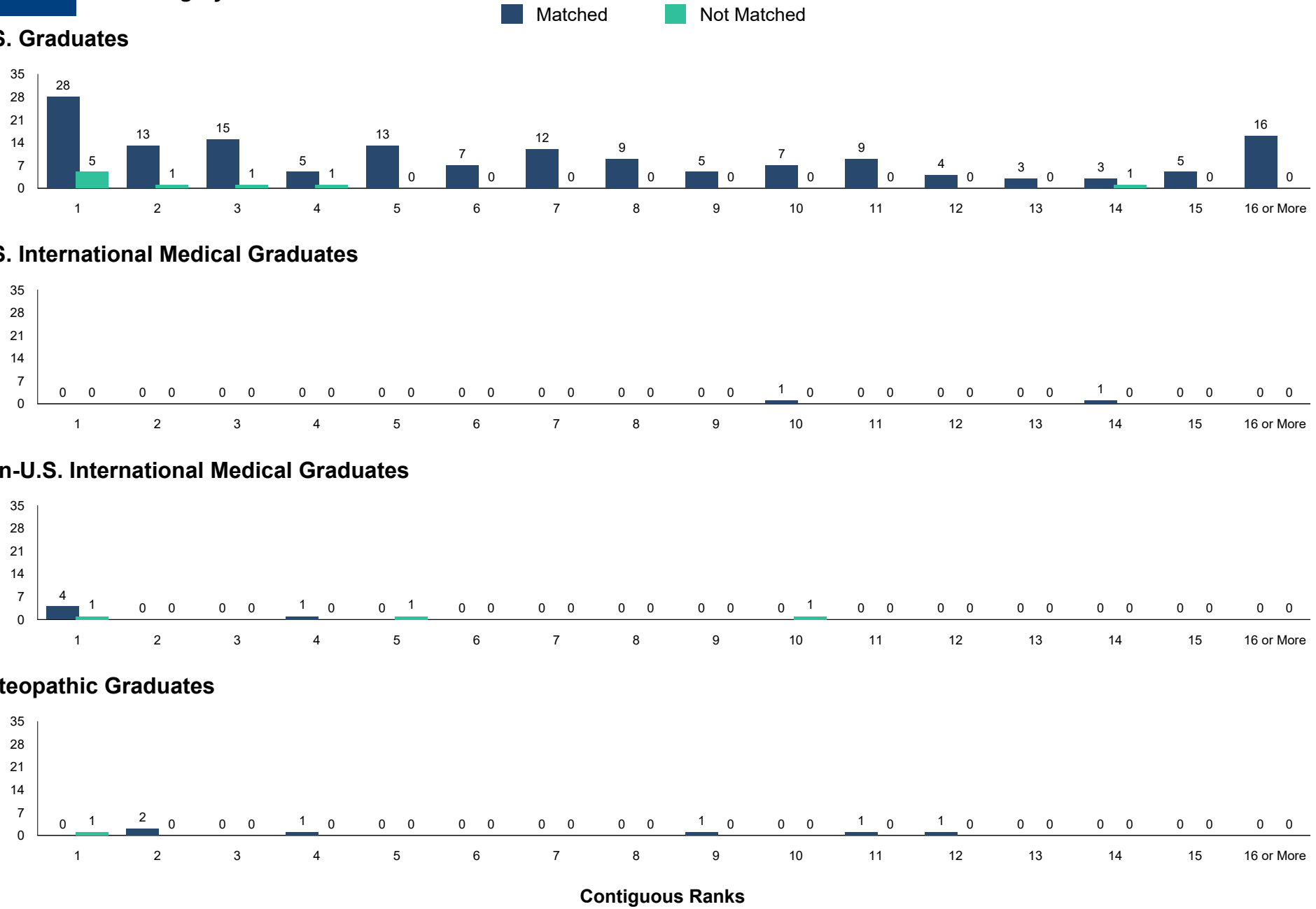
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Hand Surgery



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Hand Surgery

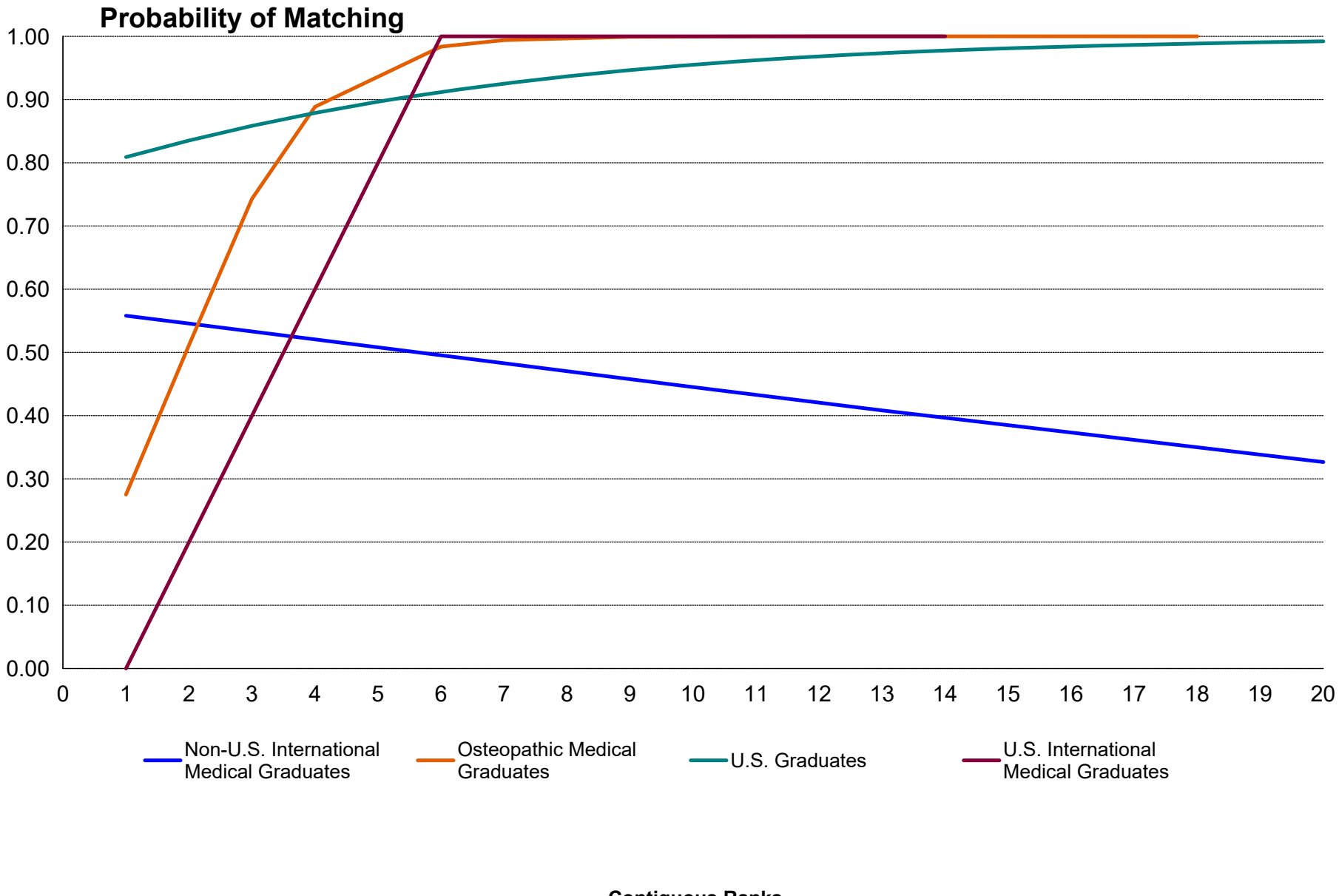

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Chart-2 Number of Distinct Specialties Ranked

Hand Surgery

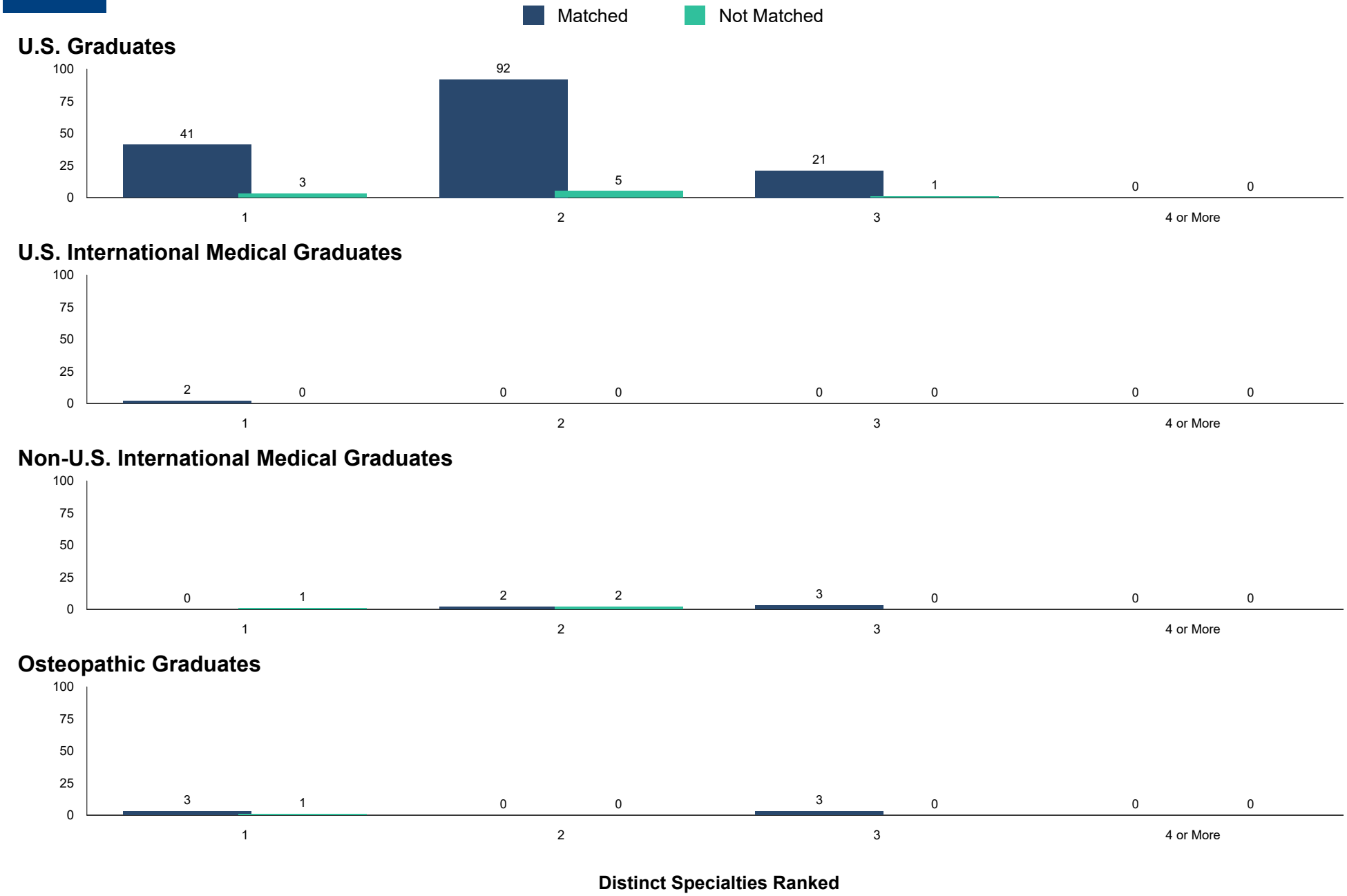

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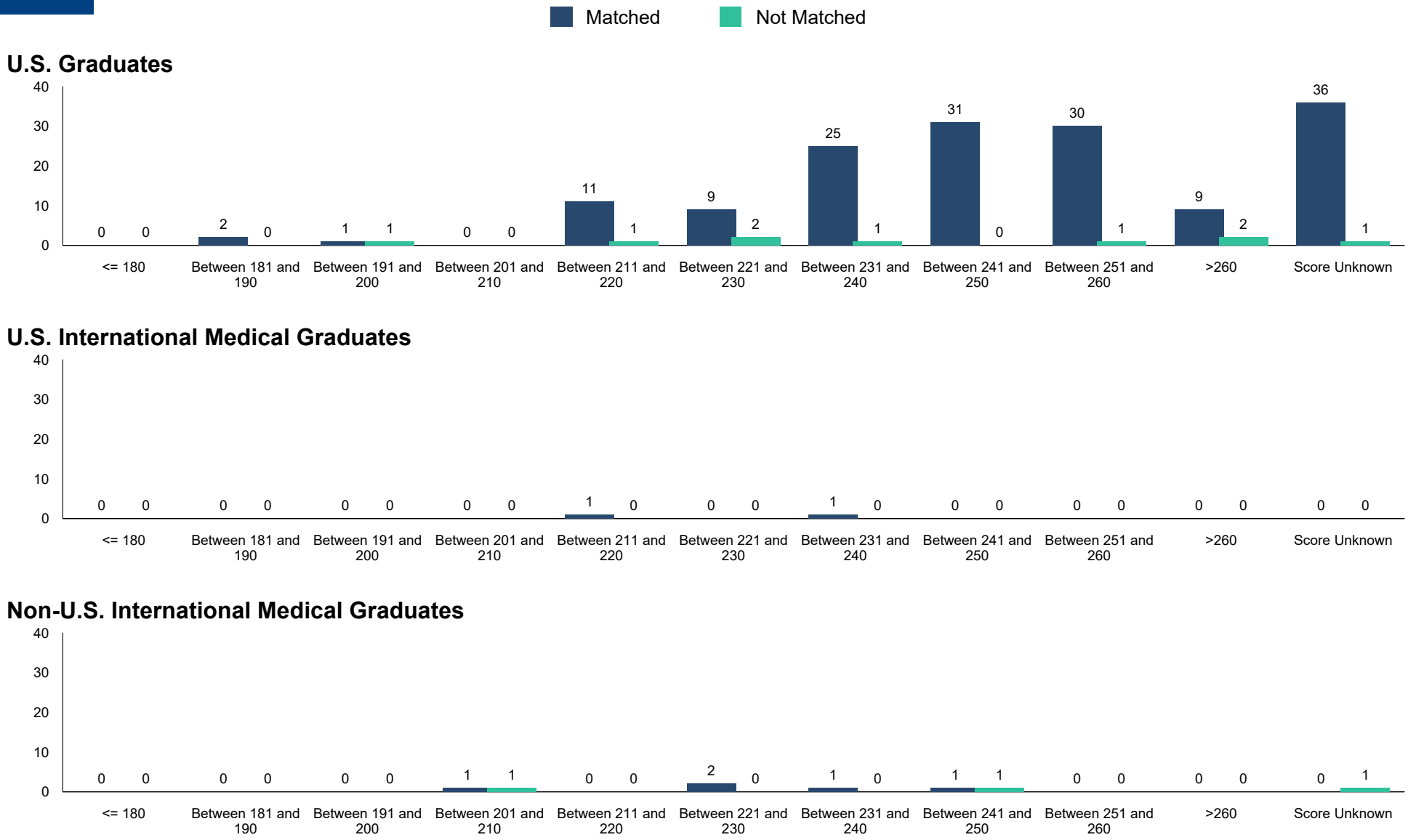
Chart-3 USMLE Step 1 Scores
Hand Surgery



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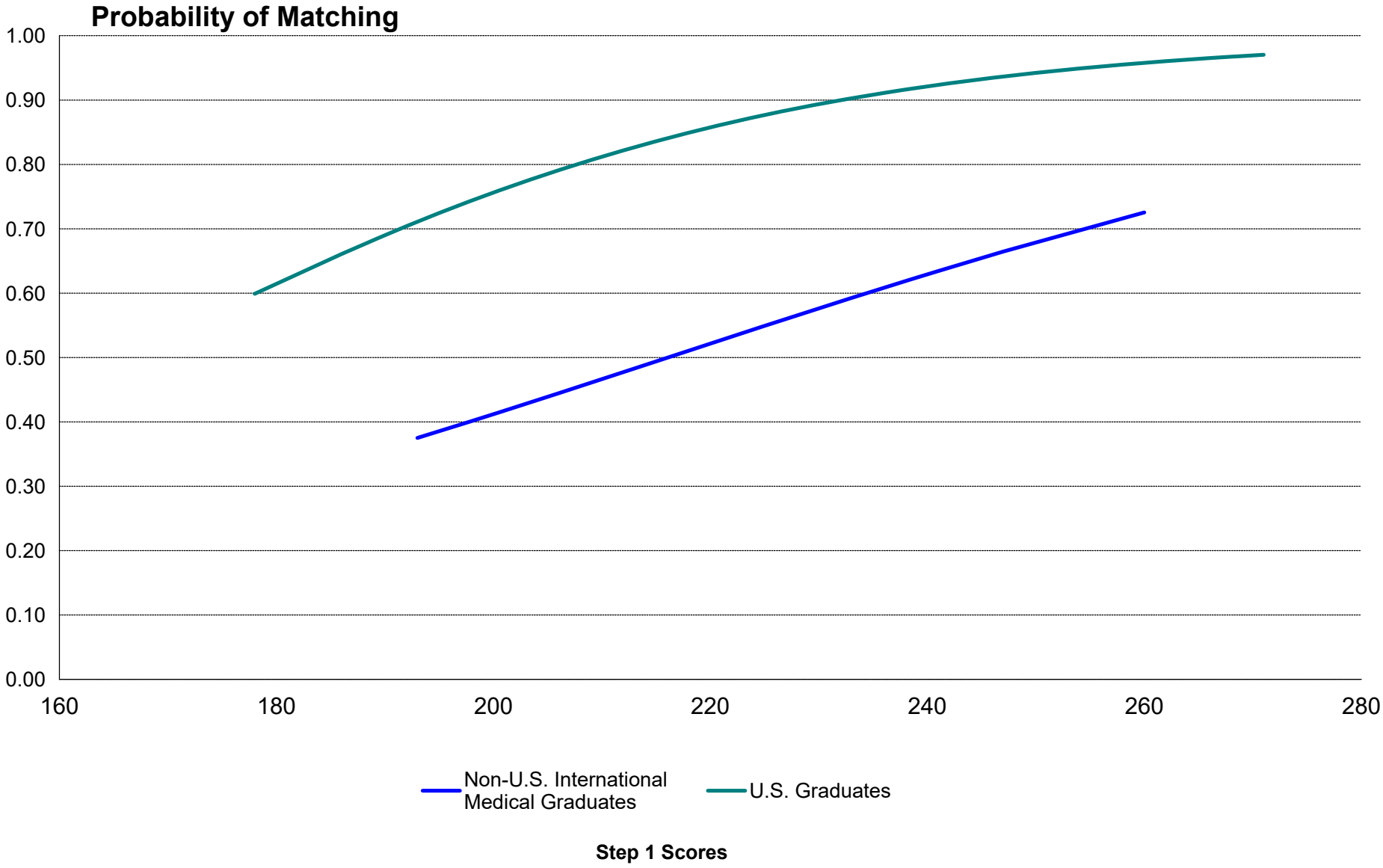
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Hand Surgery



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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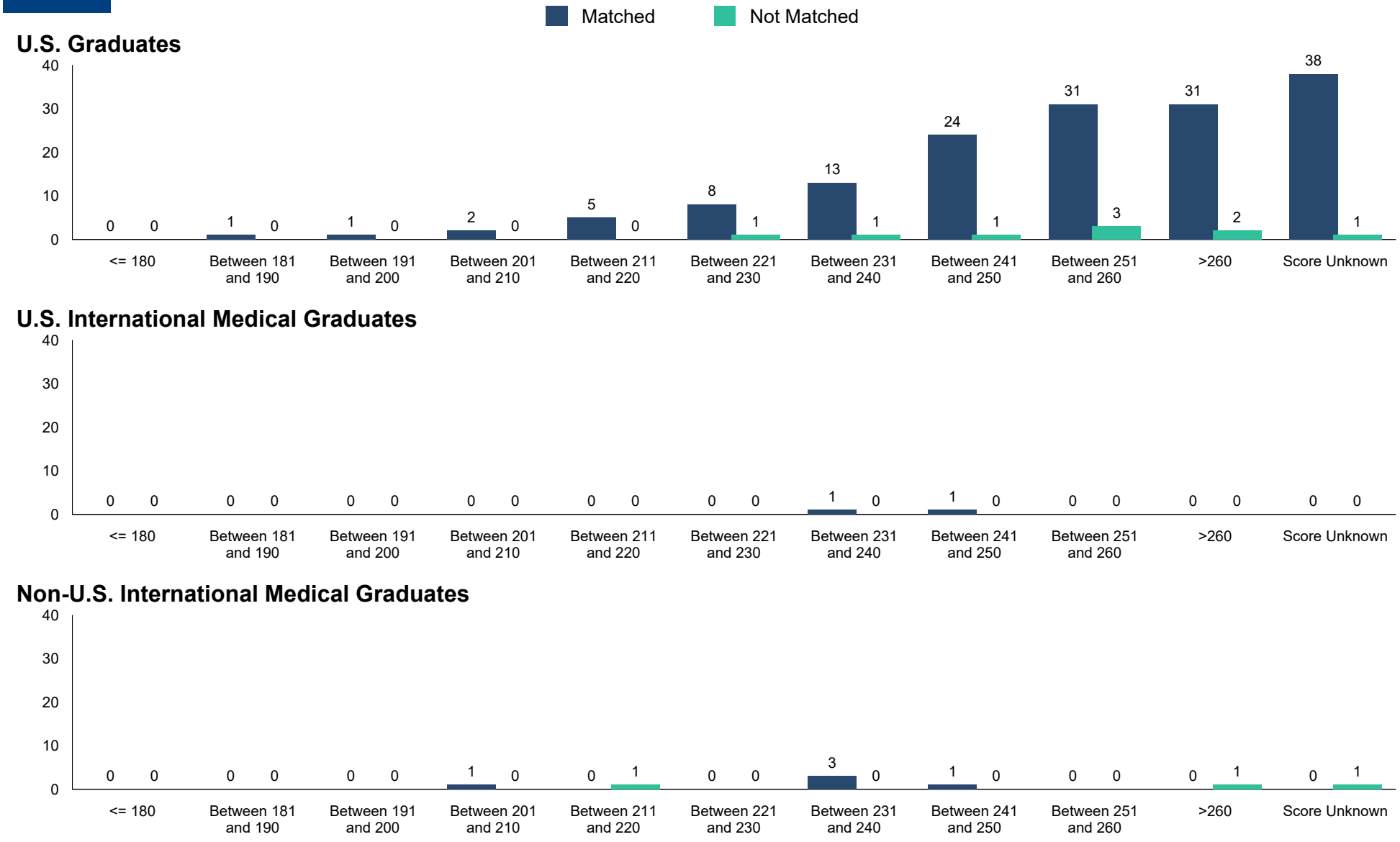
Chart-4 USMLE Step 2 Scores
Hand Surgery



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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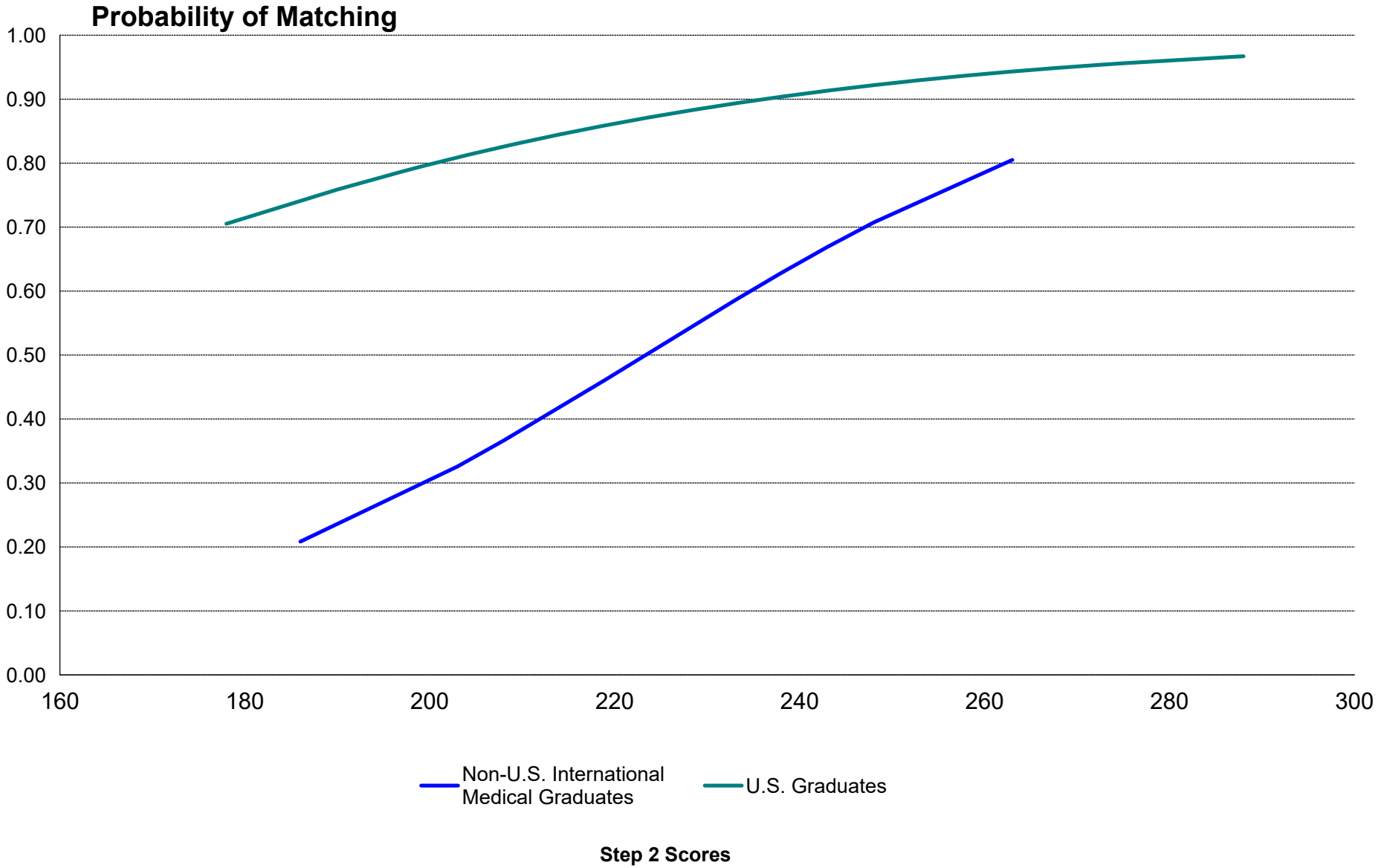
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Hand Surgery



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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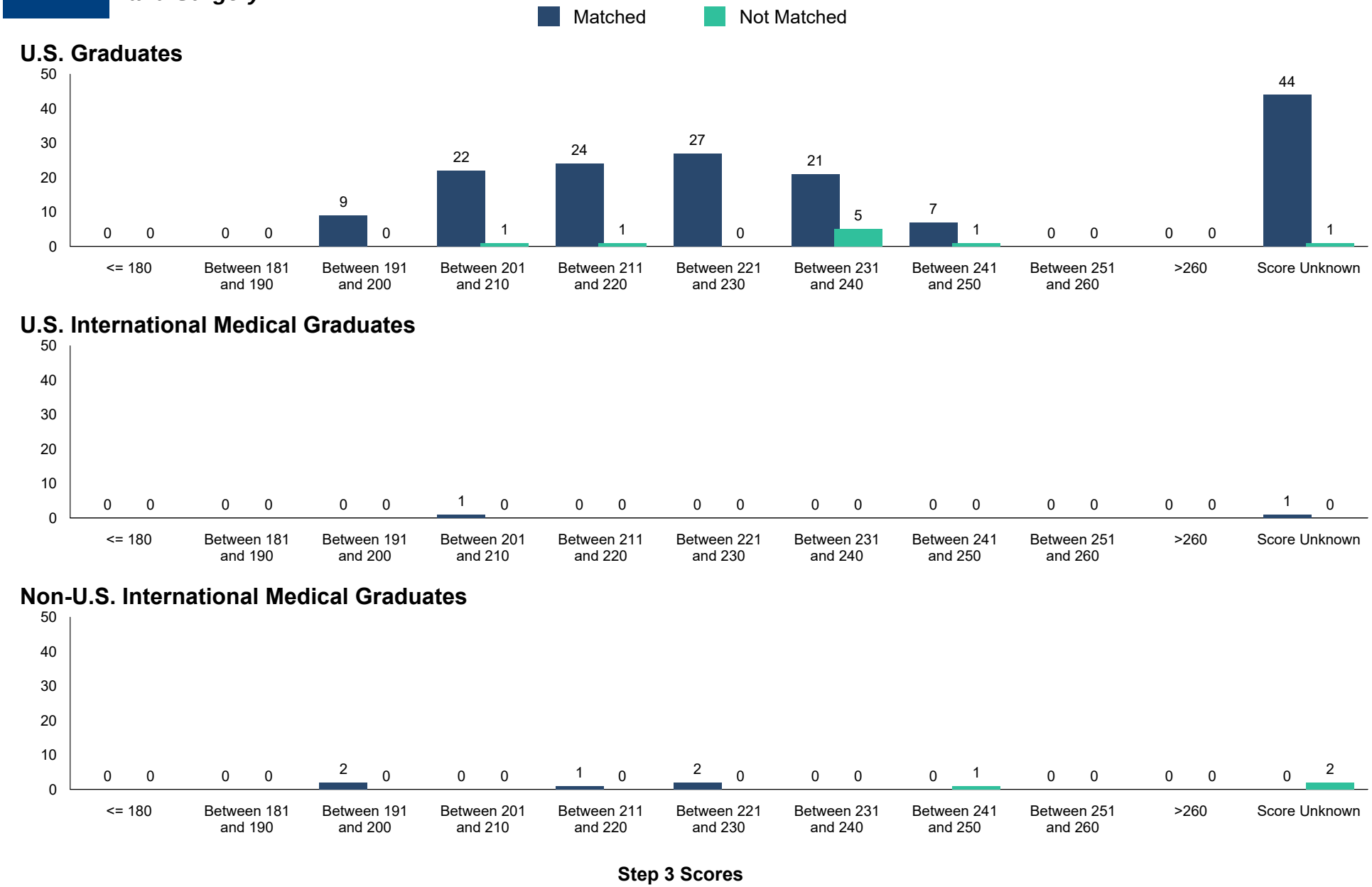
Chart-5 USMLE Step 3 Scores
Hand Surgery



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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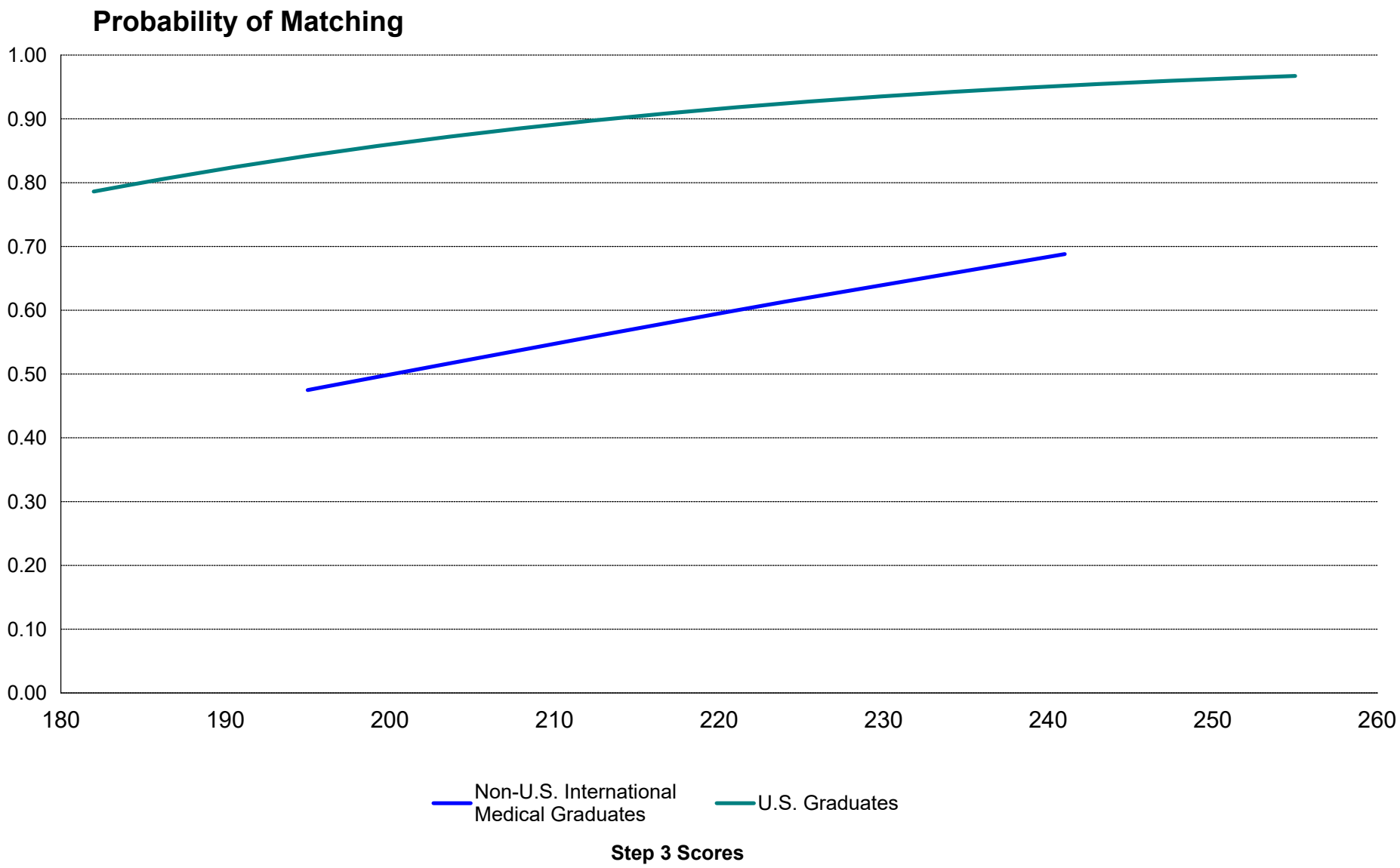
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Hand Surgery



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects
Hand Surgery

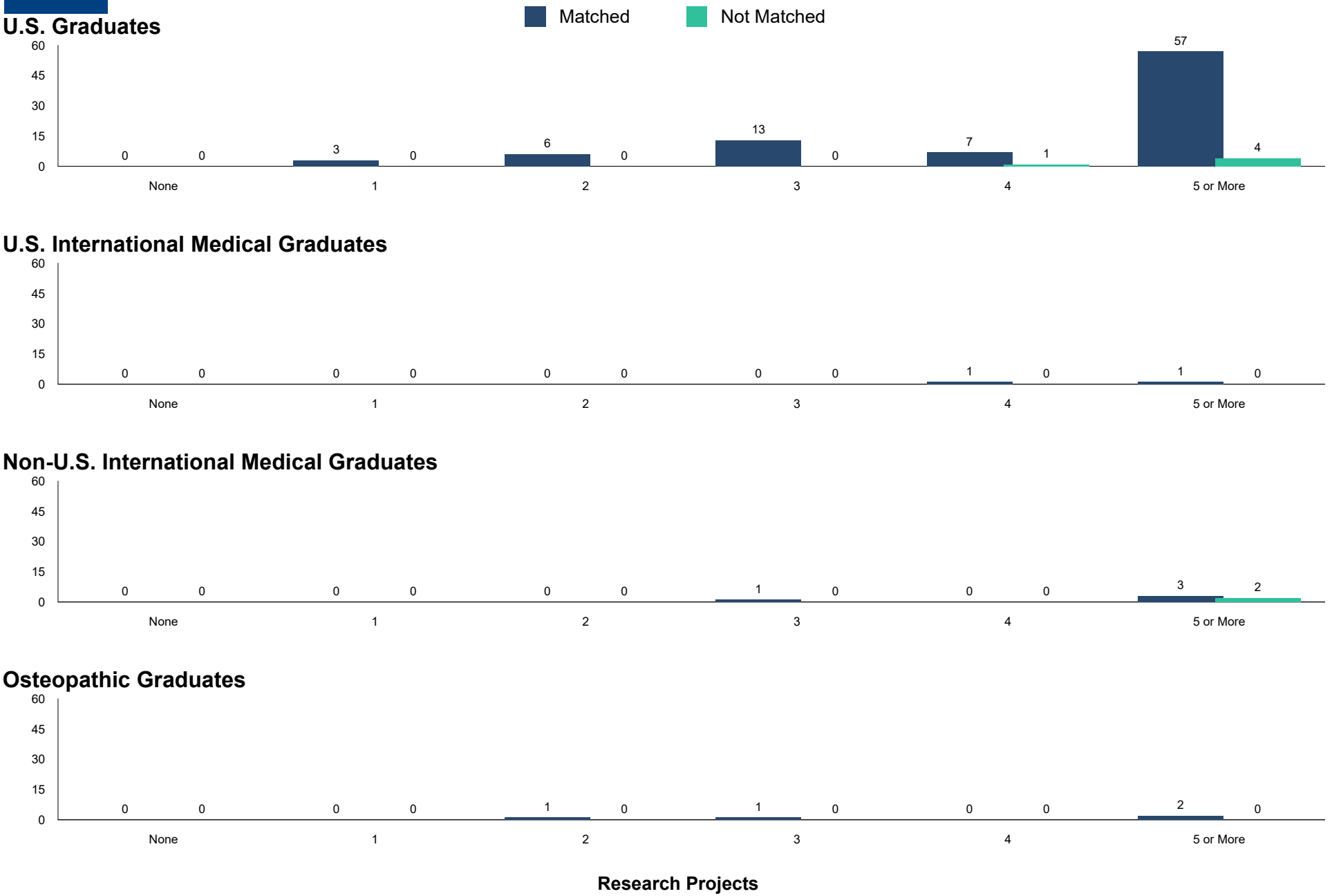

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Chart-7 Number of Abstracts, Presentations, and Publications

Hand Surgery

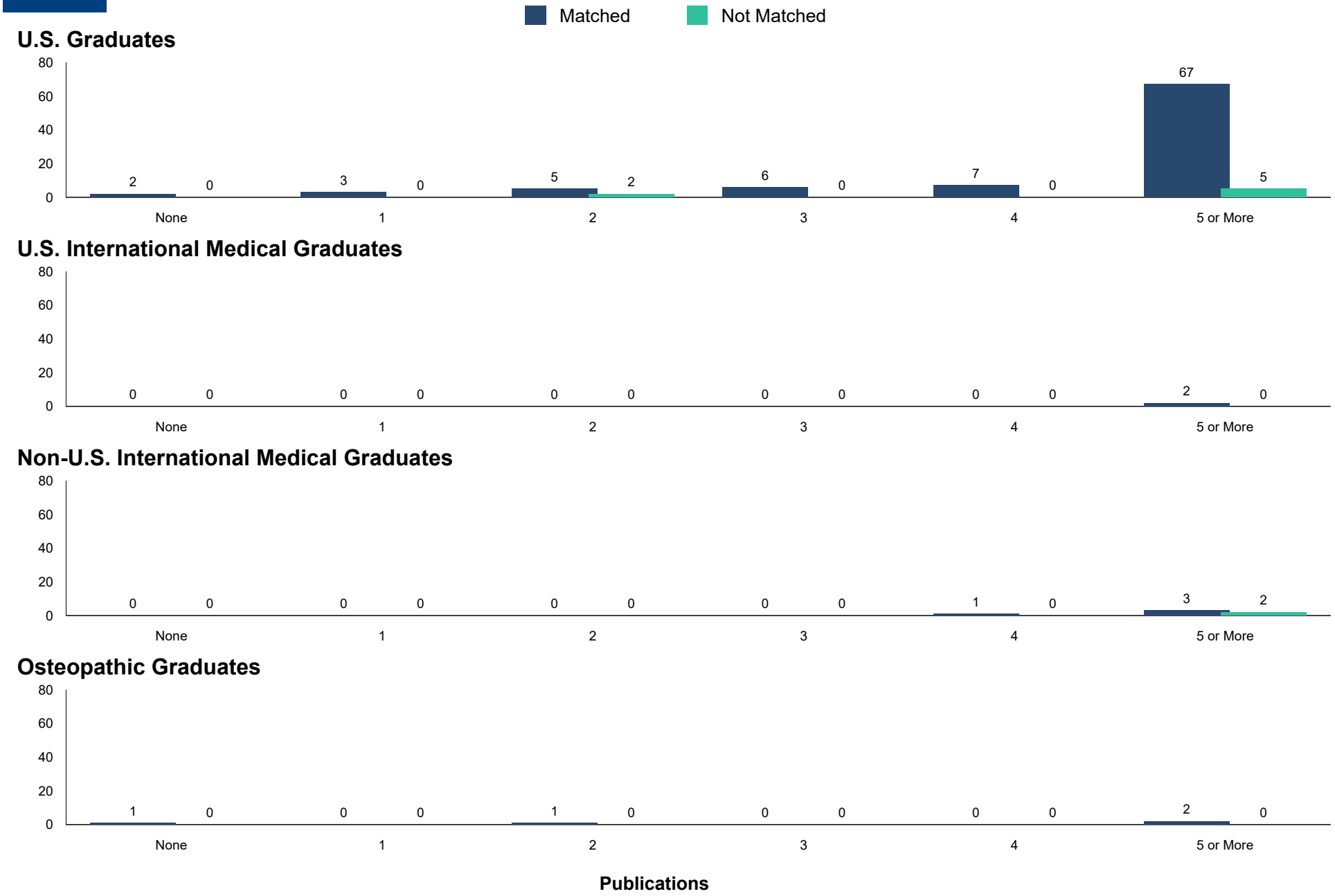

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Chart-8 Number of Work Experiences

Hand Surgery

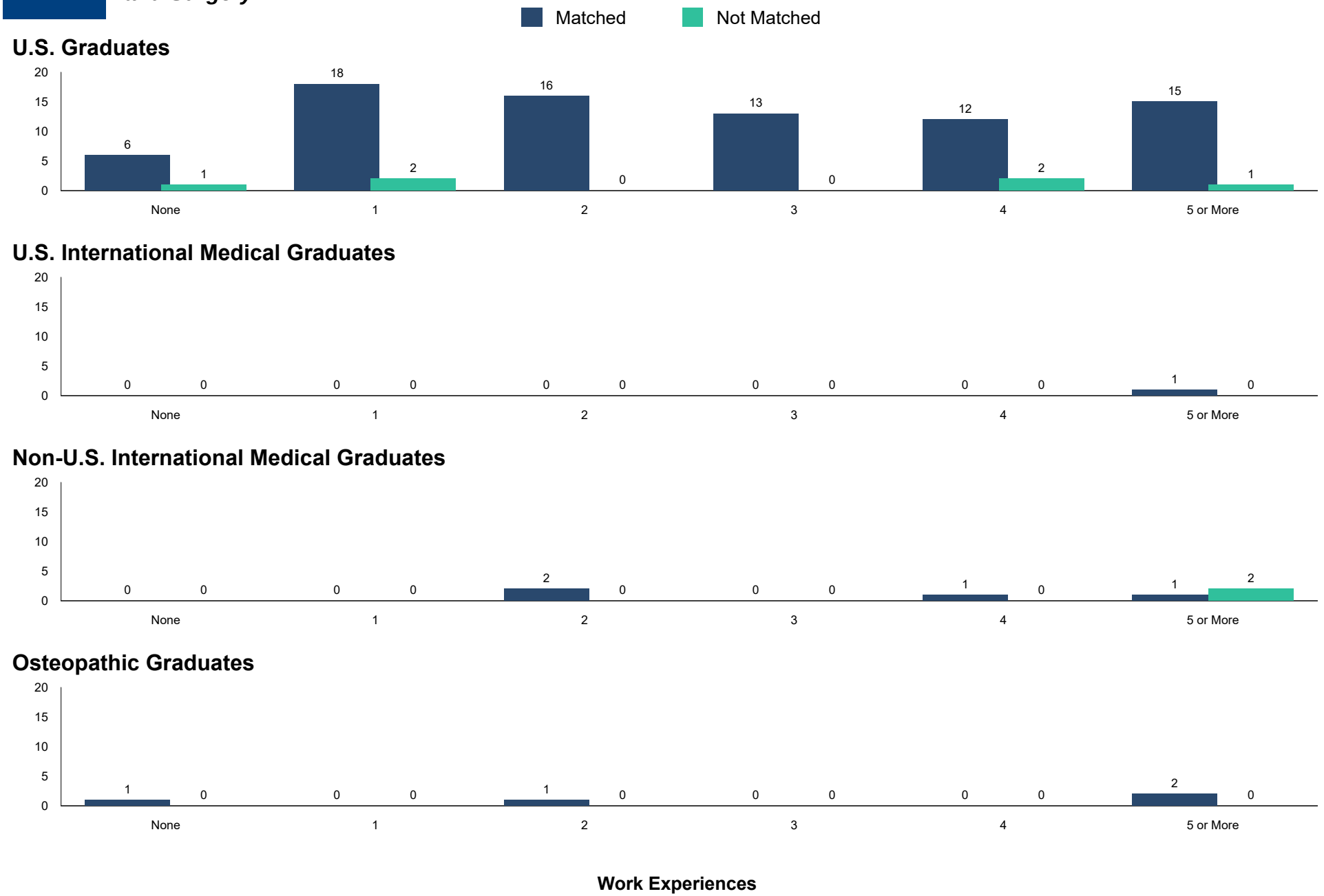

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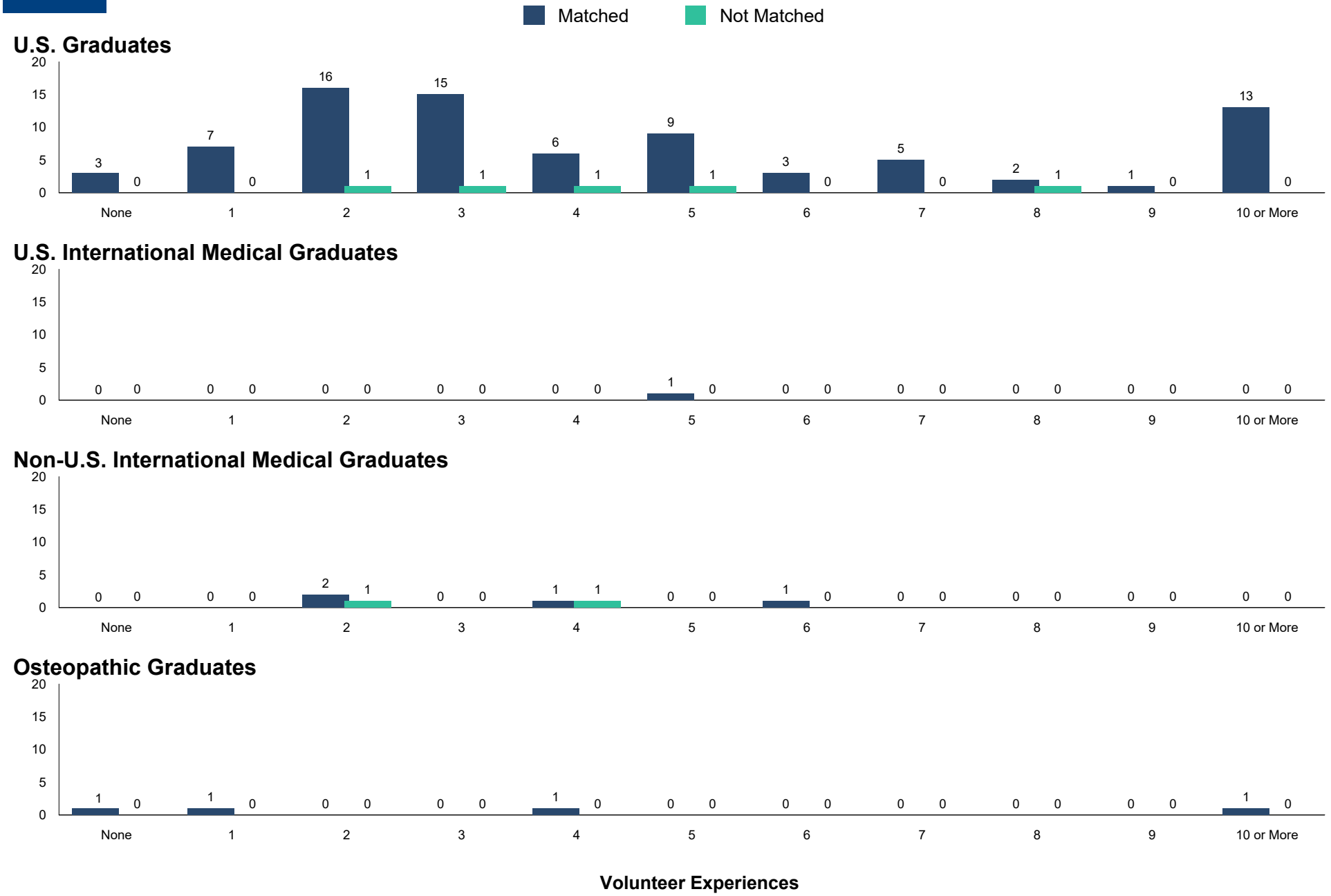
Chart-9 Number of Volunteer Experiences

Hand Surgery



Source: NRMP Data Warehouse

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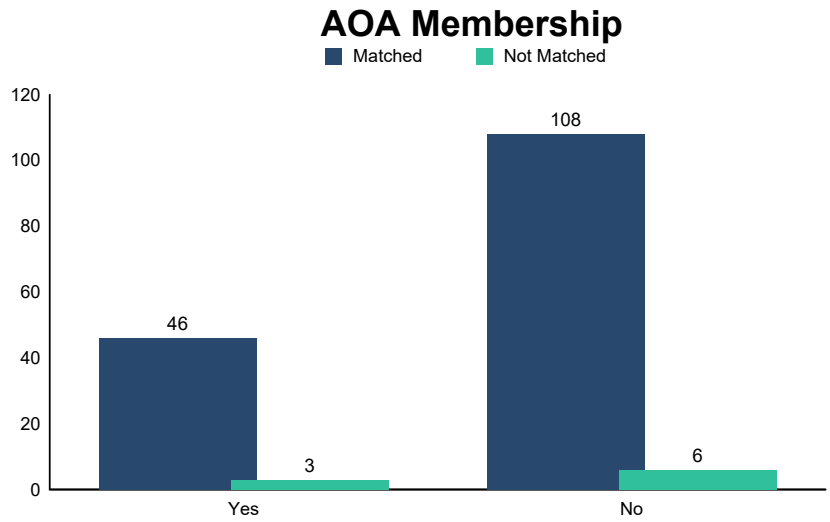
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Hand Surgery



Source: NRMP Data Warehouse

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Hematology and Oncology

Table-1 Summary Statistics
Hematology and Oncology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=327)	Unmatched (n=62)	Matched (n=36)	Unmatched (n=48)	Matched (n=142)	Unmatched (n=95)	Matched (n=34)	Unmatched (n=15)
1.	Mean number of contiguous ranks	7.1	3.9	6.6	3.3	7.5	3.1	6.1	3.7
2.	Mean number of distinct specialties ranked	1.2	1.2	1.1	1.1	1.2	1.3	1.1	1.1
3.	Mean USMLE Step 1 score	239	226	237	230	242	230	n/a	n/a
4.	Mean USMLE Step 2 score	250	236	241	238	245	236	n/a	n/a
5.	Mean USMLE Step 3 score	237	227	231	221	226	216	n/a	n/a
6.	Mean number of research experiences	4.6	4.7	4.6	2.8	4.2	3.3	4.4	3.3
7.	Mean number of abstracts, presentations, and publications	9.1	8.0	12.5	4.5	16.5	9.6	7.2	5.4
8.	Mean number of work experiences	2.8	3.0	3.8	3.0	3.8	4.6	2.9	3.1
9.	Mean number of volunteer experiences	5.0	4.8	4.0	3.2	3.3	3.3	5.2	3.5
10.	Percentage who are AOA members	22.3	6.5	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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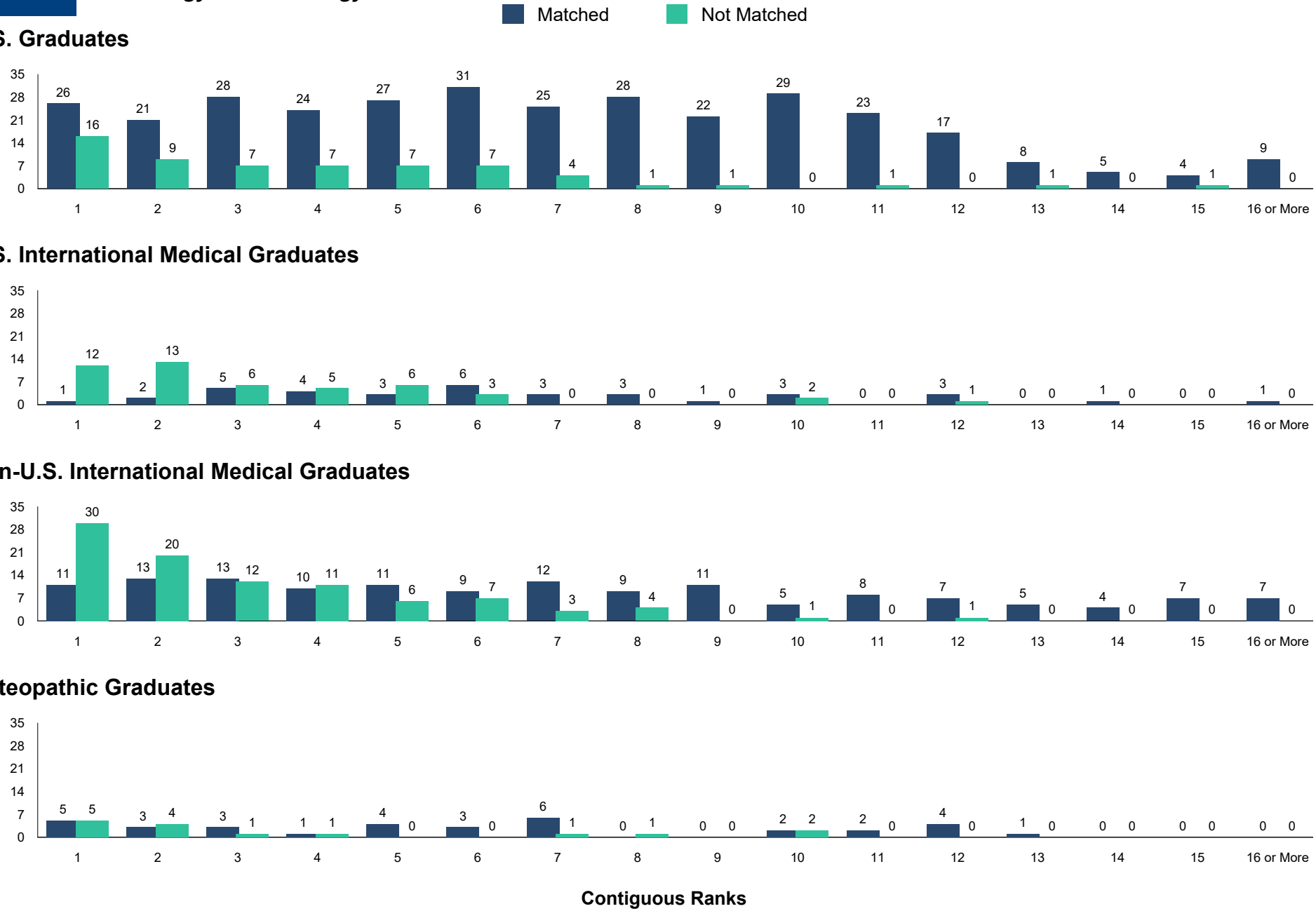
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Hematology and Oncology



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Hematology and Oncology

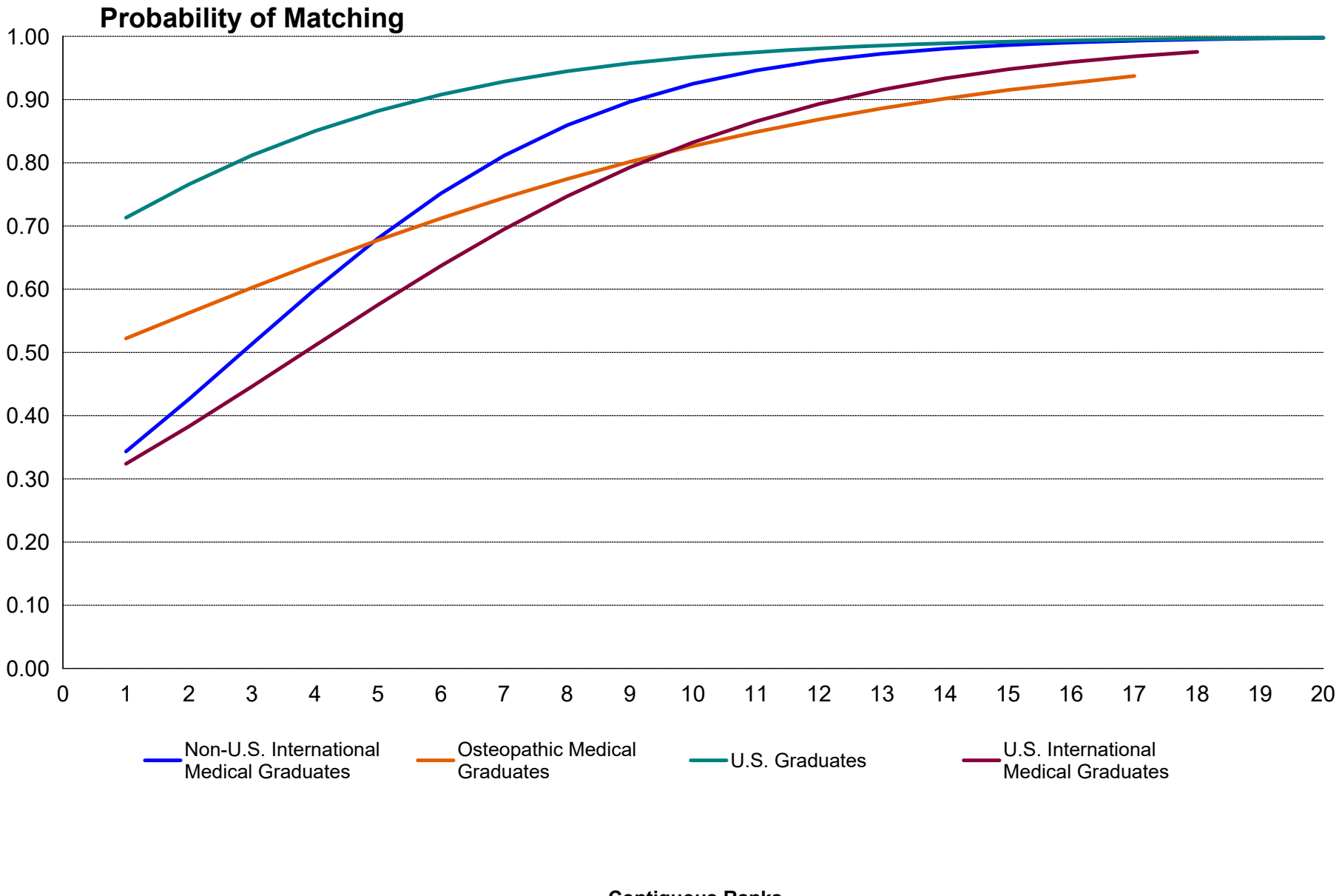

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Chart-2 Number of Distinct Specialties Ranked

Hematology and Oncology

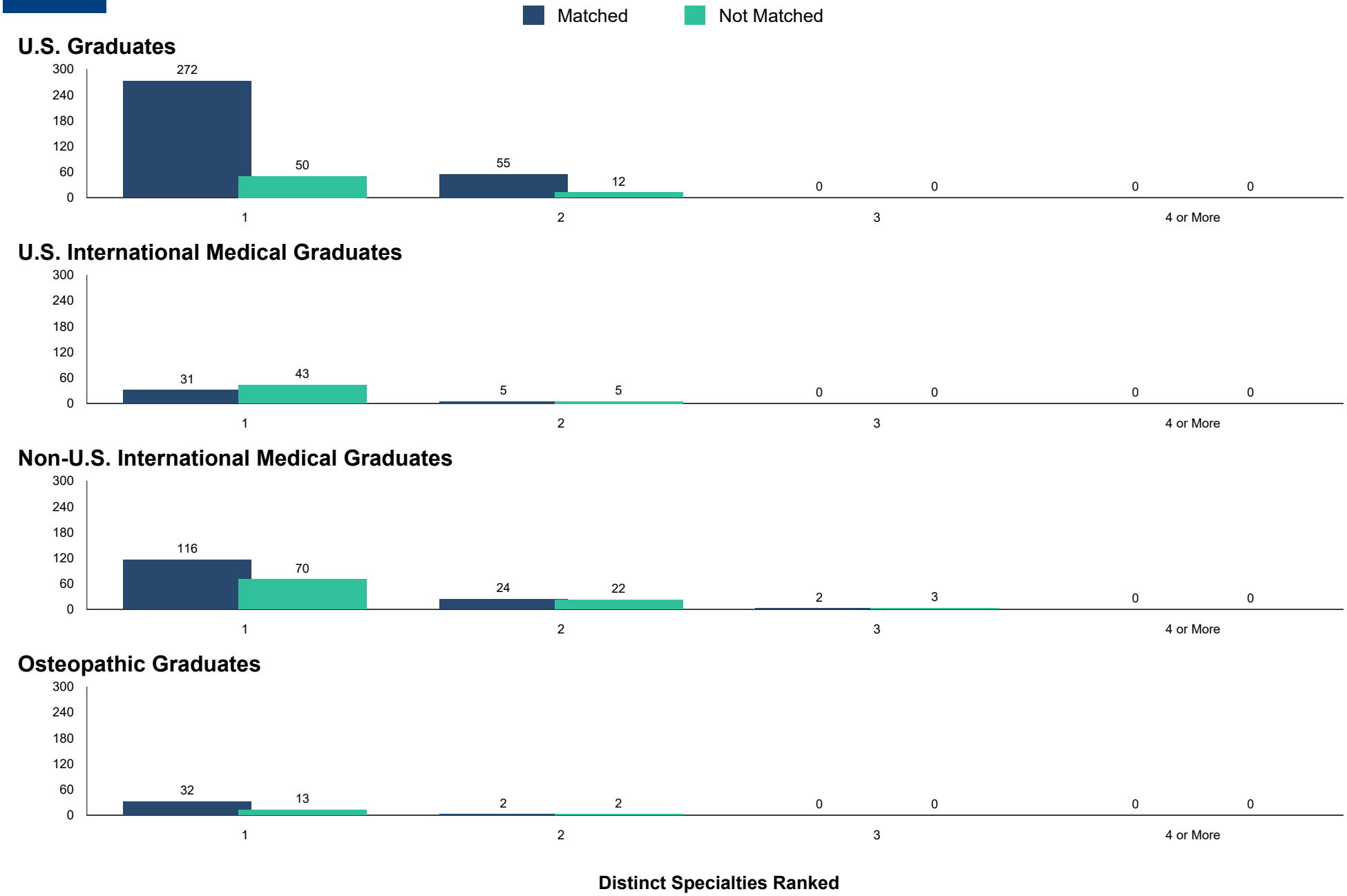

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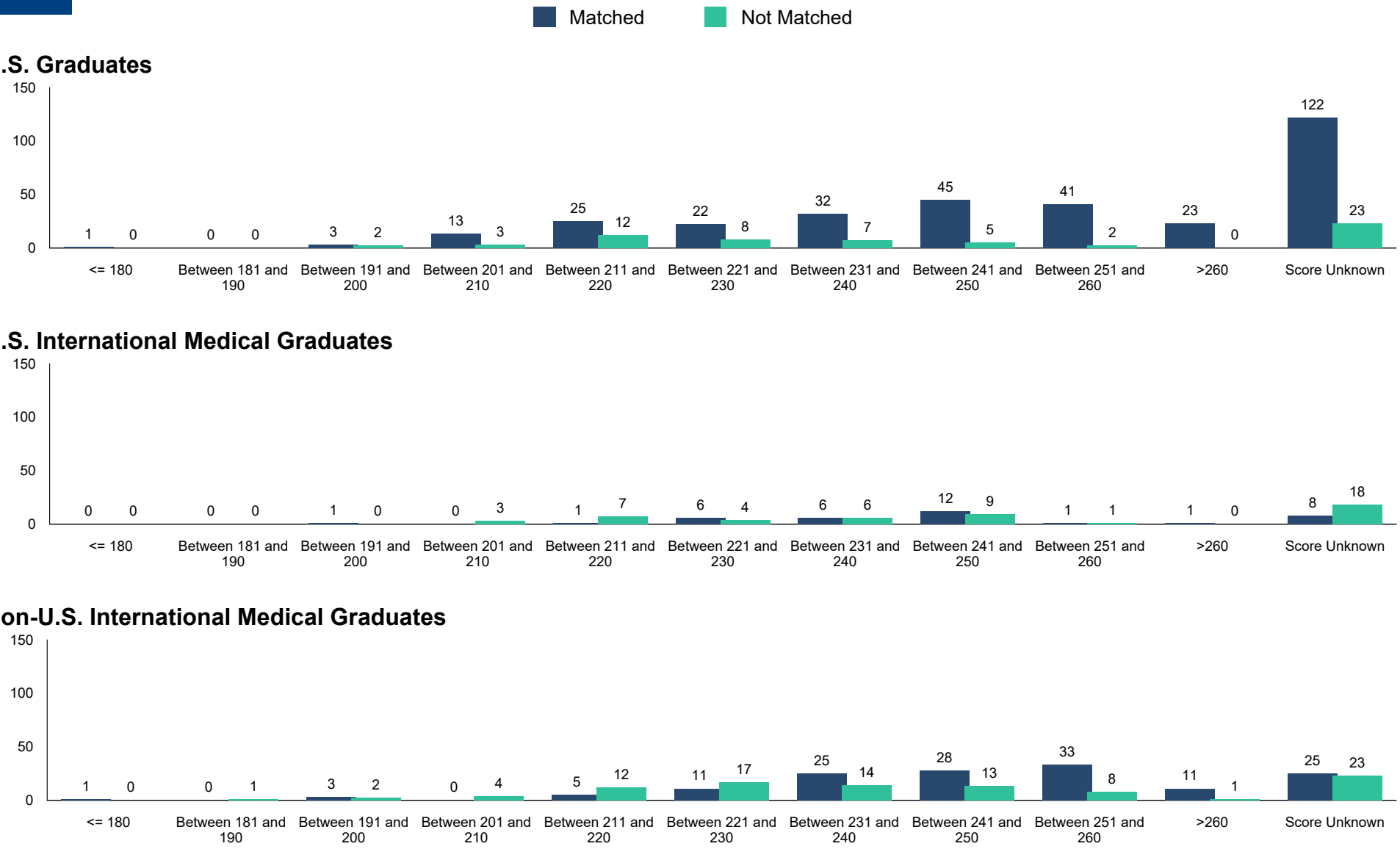
Chart-3 USMLE Step 1 Scores
Hematology and Oncology



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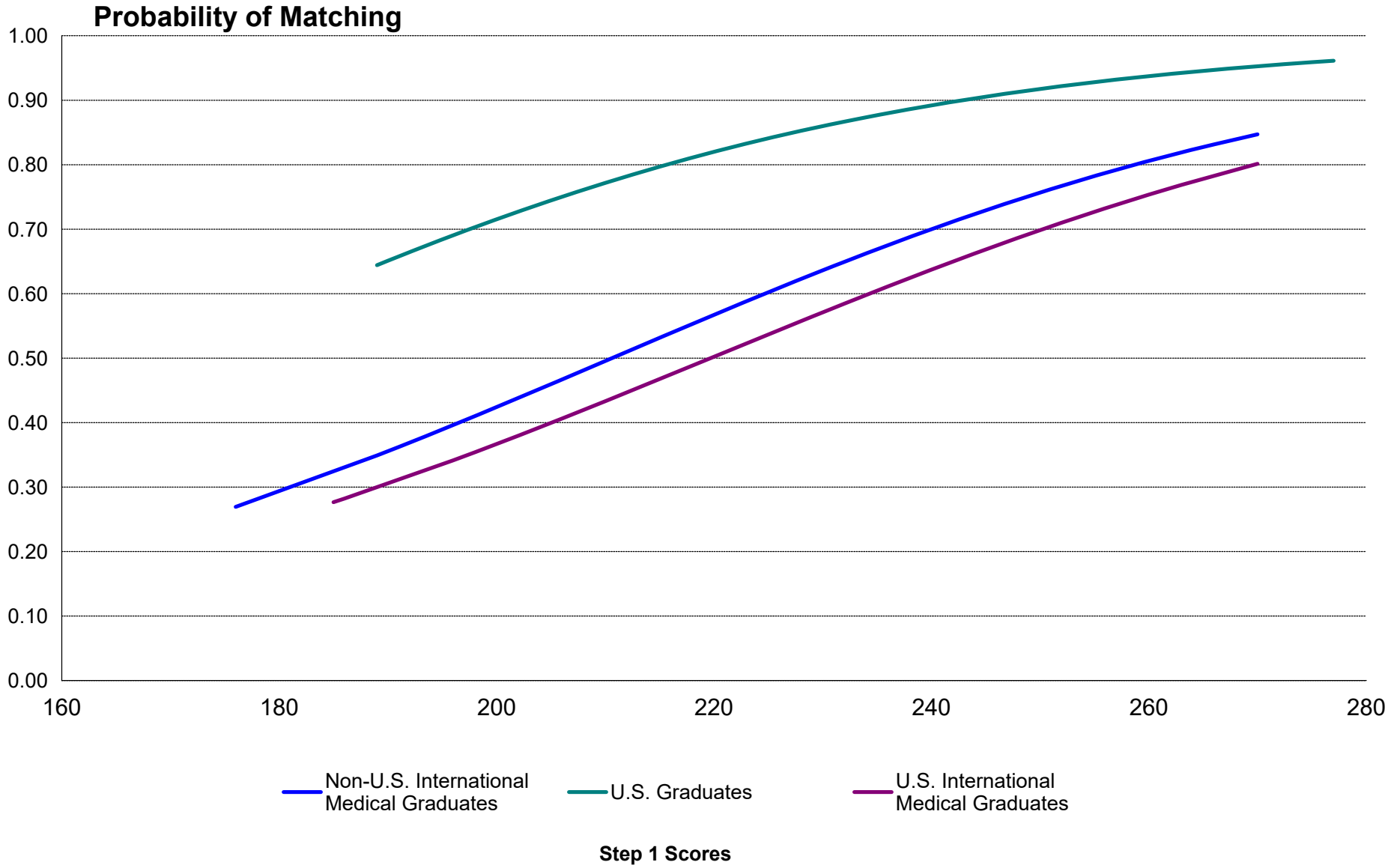
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Hematology and Oncology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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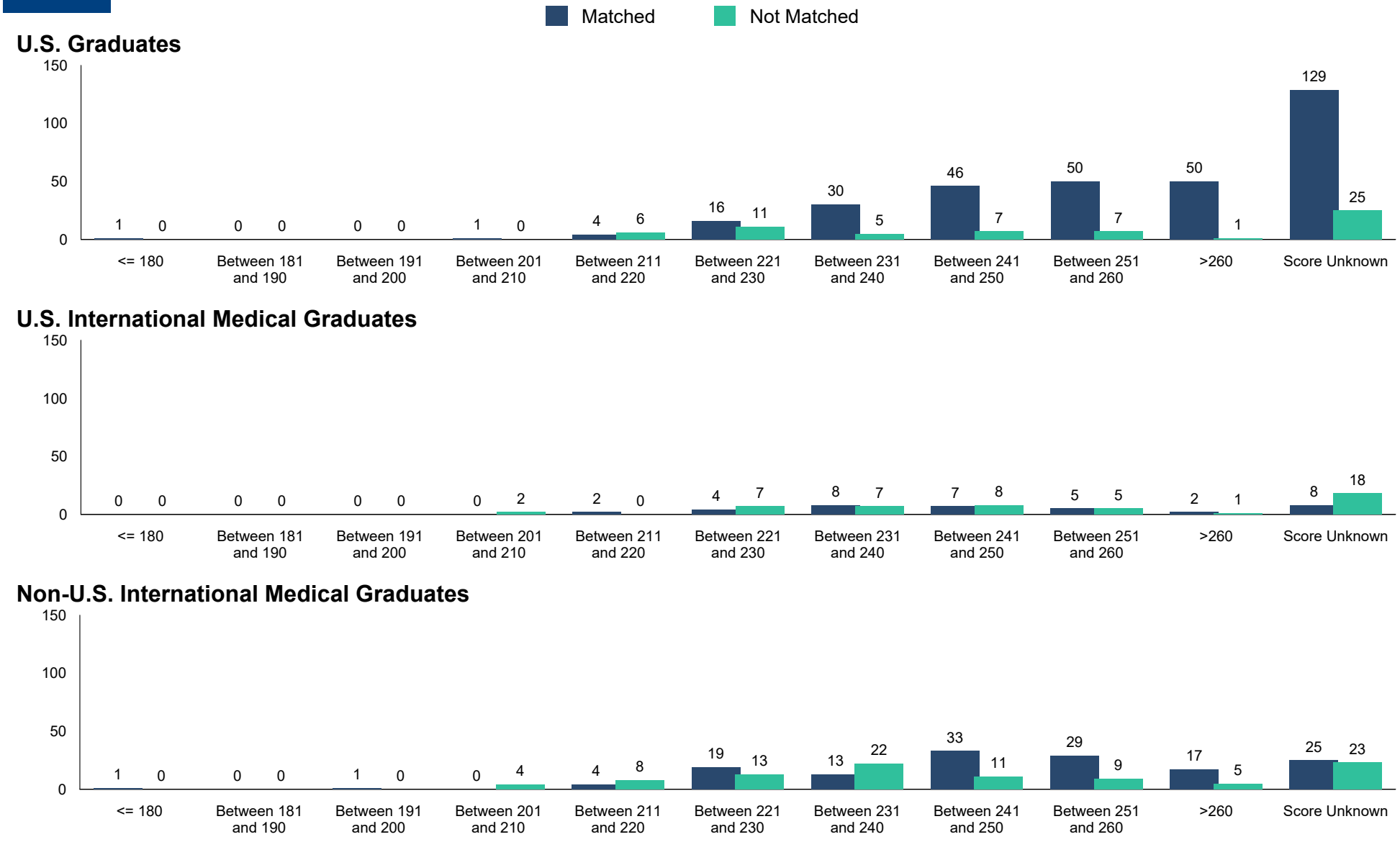
Chart-4 USMLE Step 2 Scores
Hematology and Oncology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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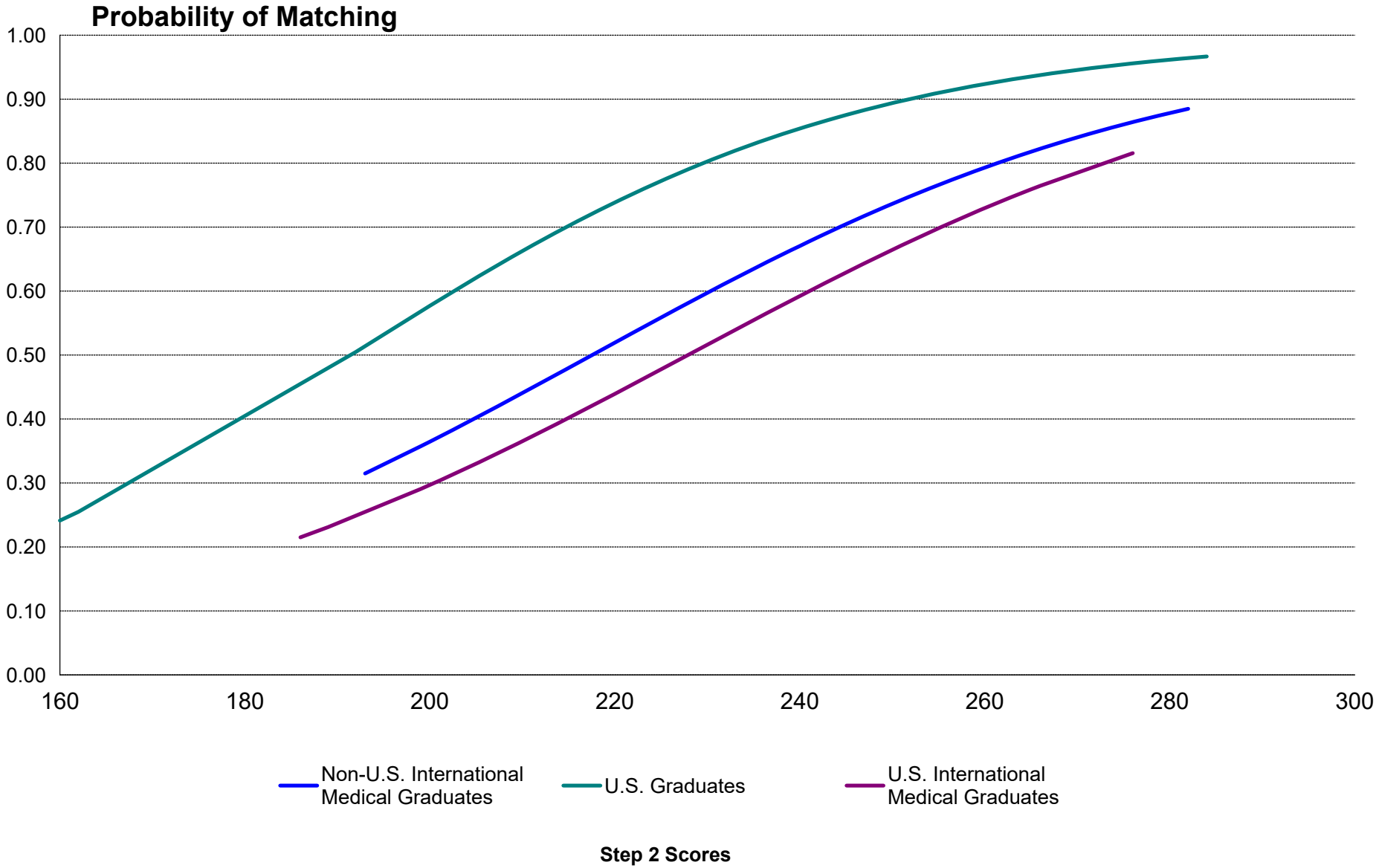
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Hematology and Oncology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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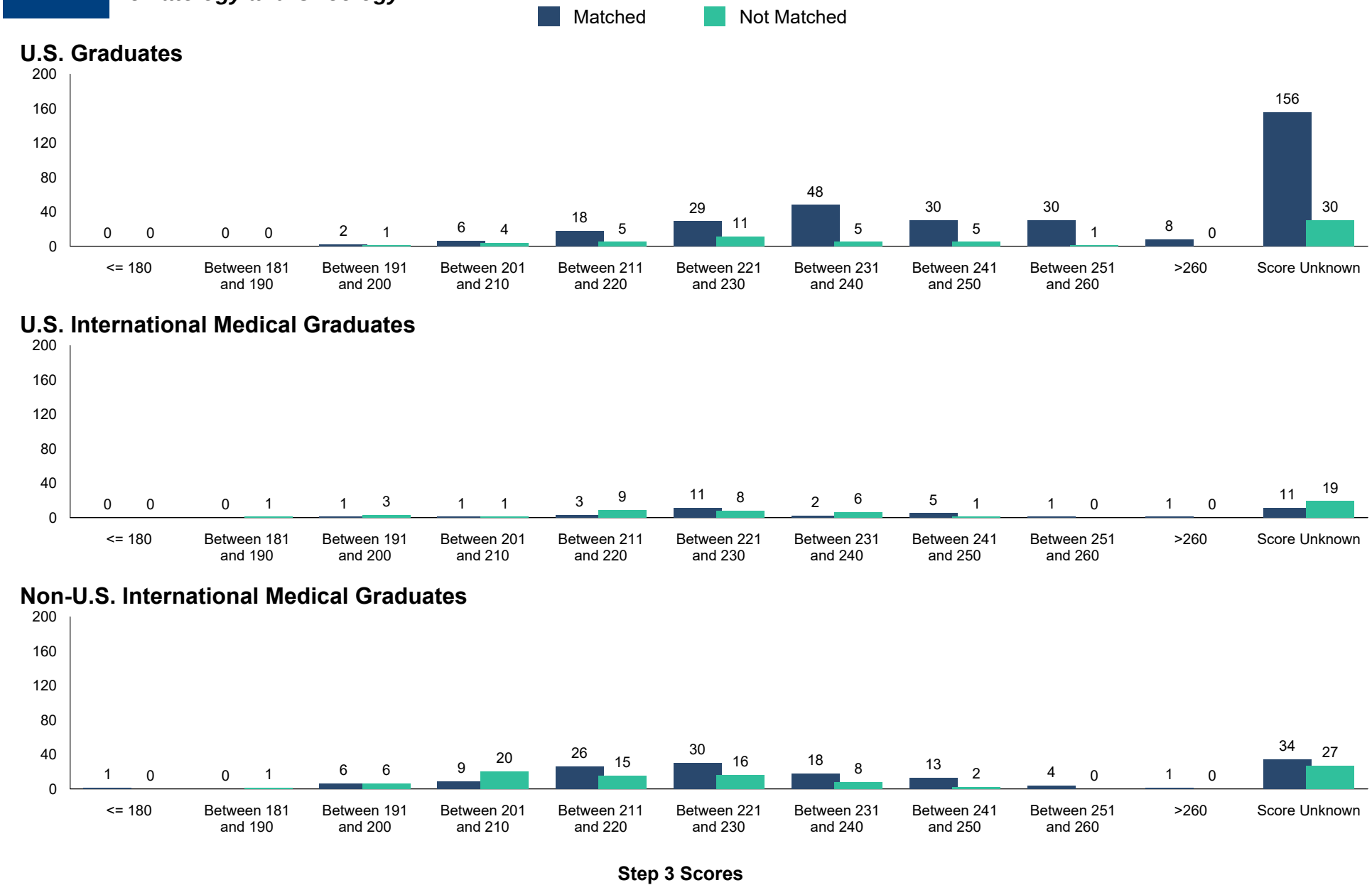
Chart-5 USMLE Step 3 Scores
Hematology and Oncology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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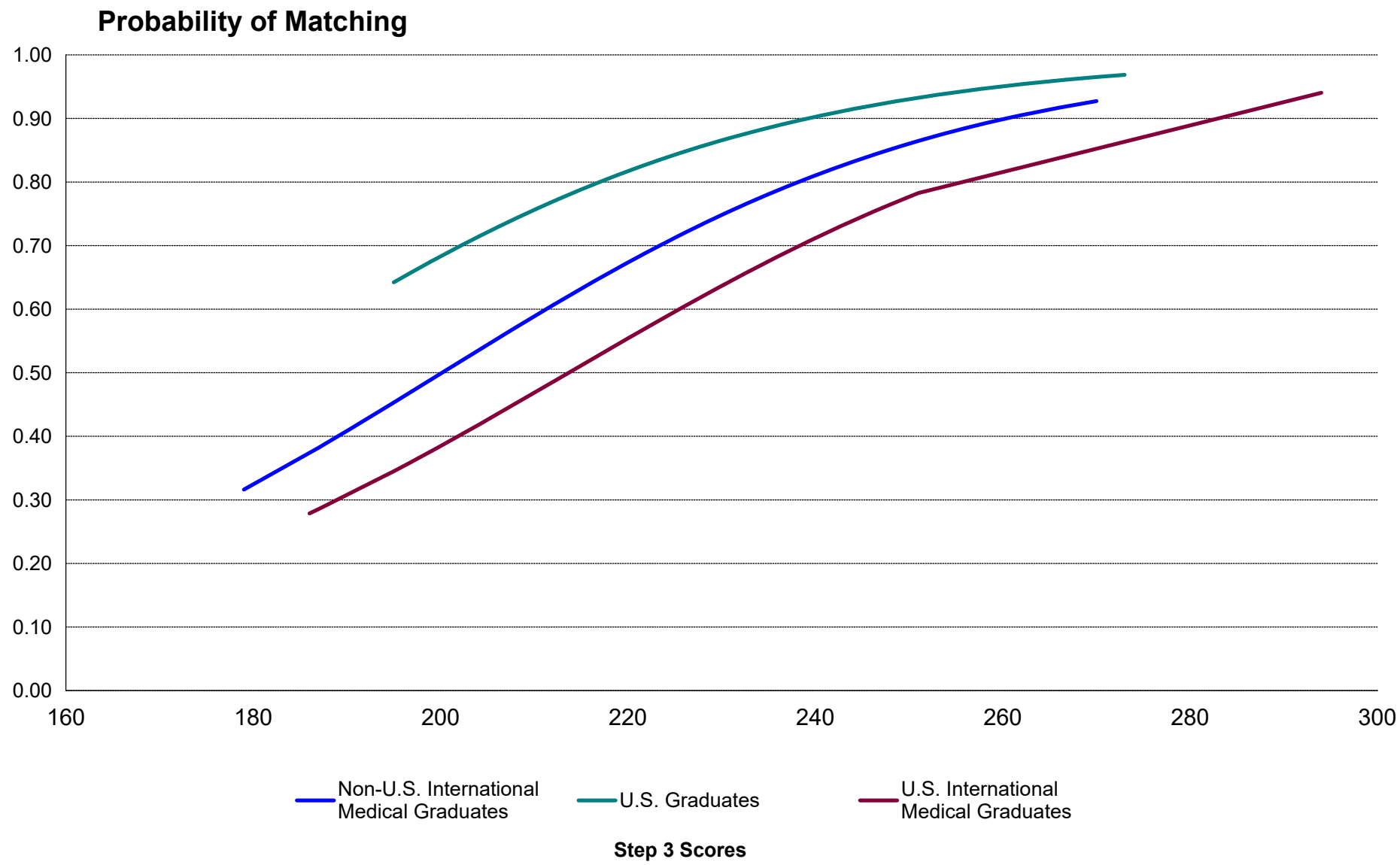
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Hematology and Oncology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects
Hematology and Oncology

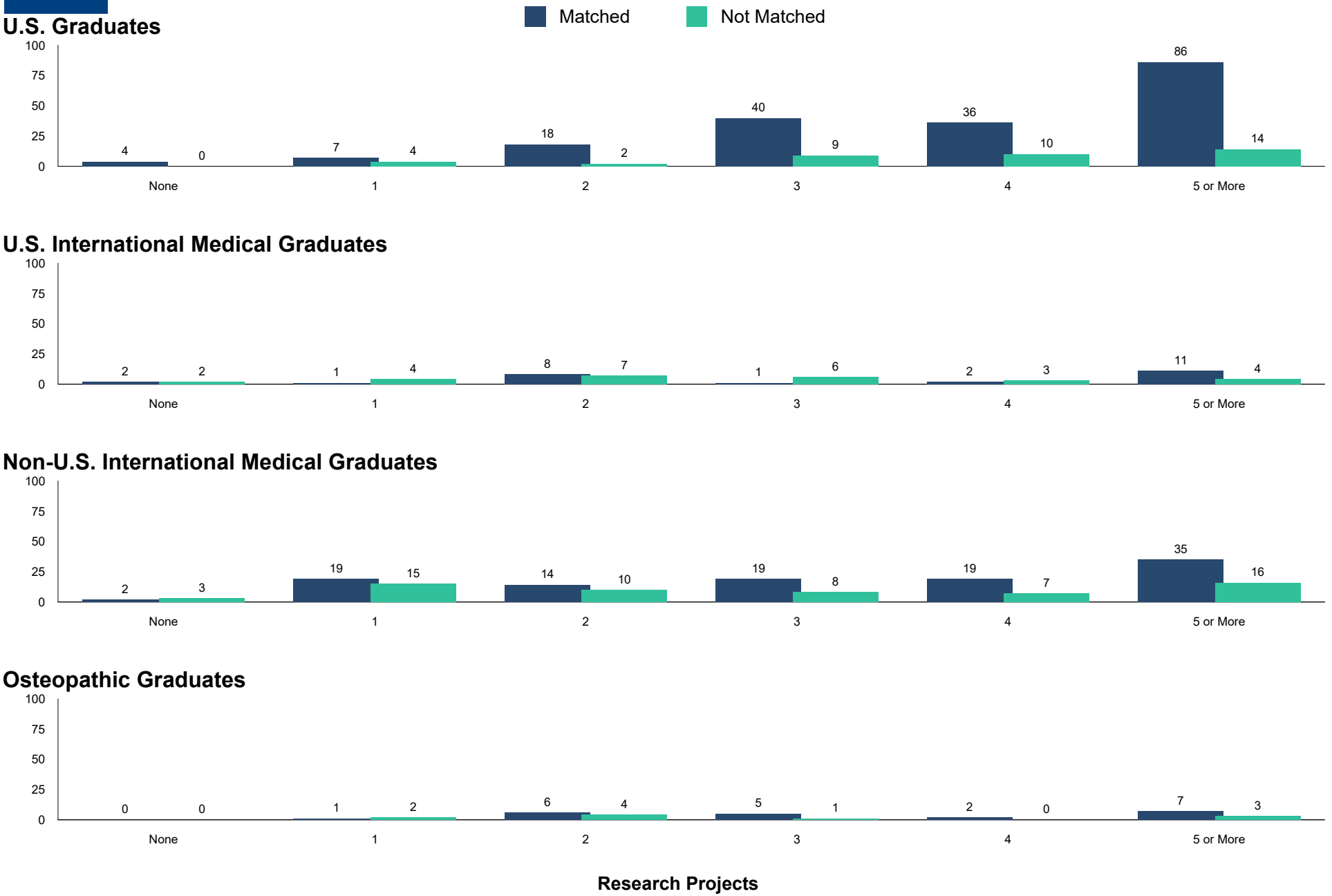

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Chart-7 Number of Abstracts, Presentations, and Publications

Hematology and Oncology

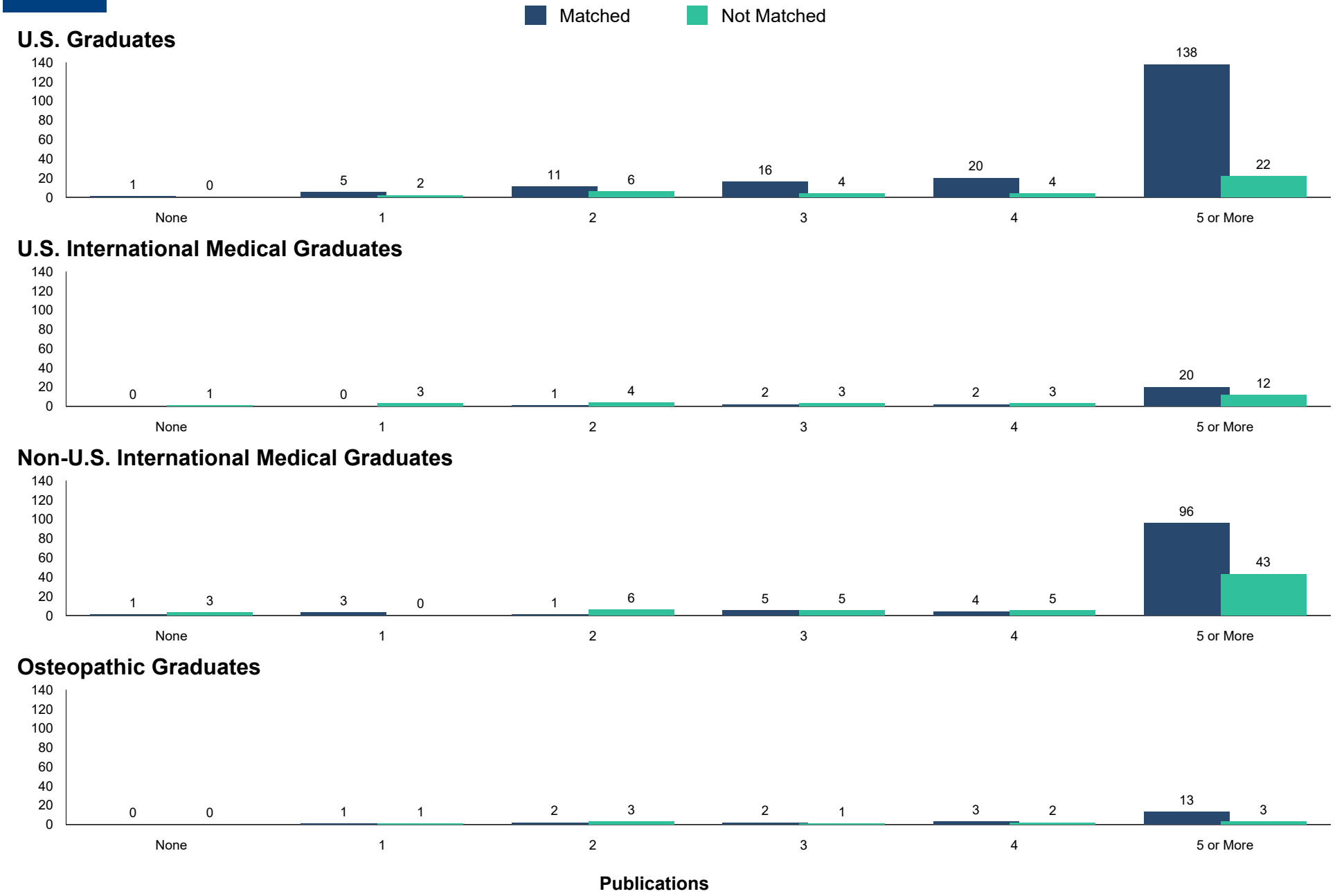

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Chart-8 Number of Work Experiences

Hematology and Oncology

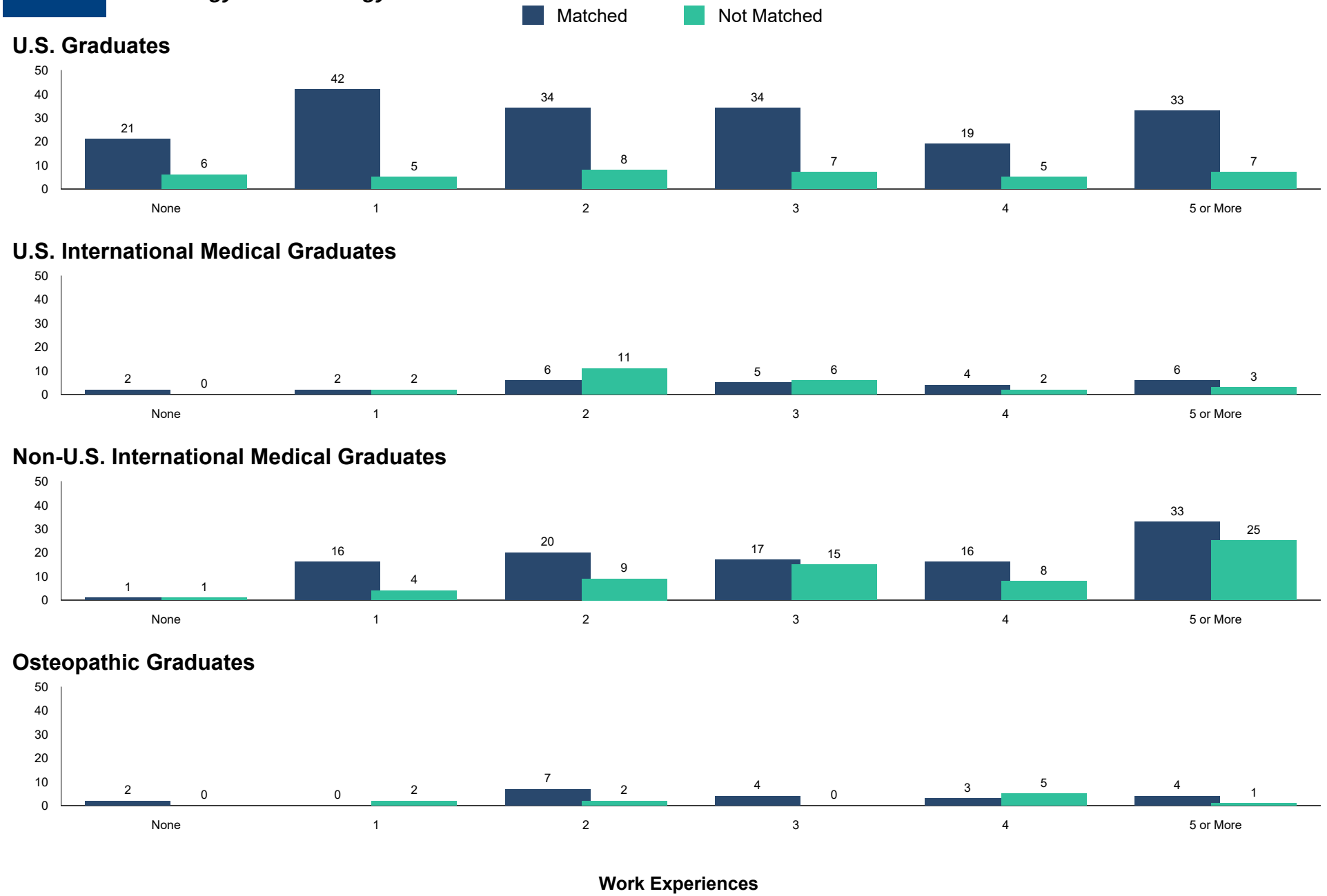

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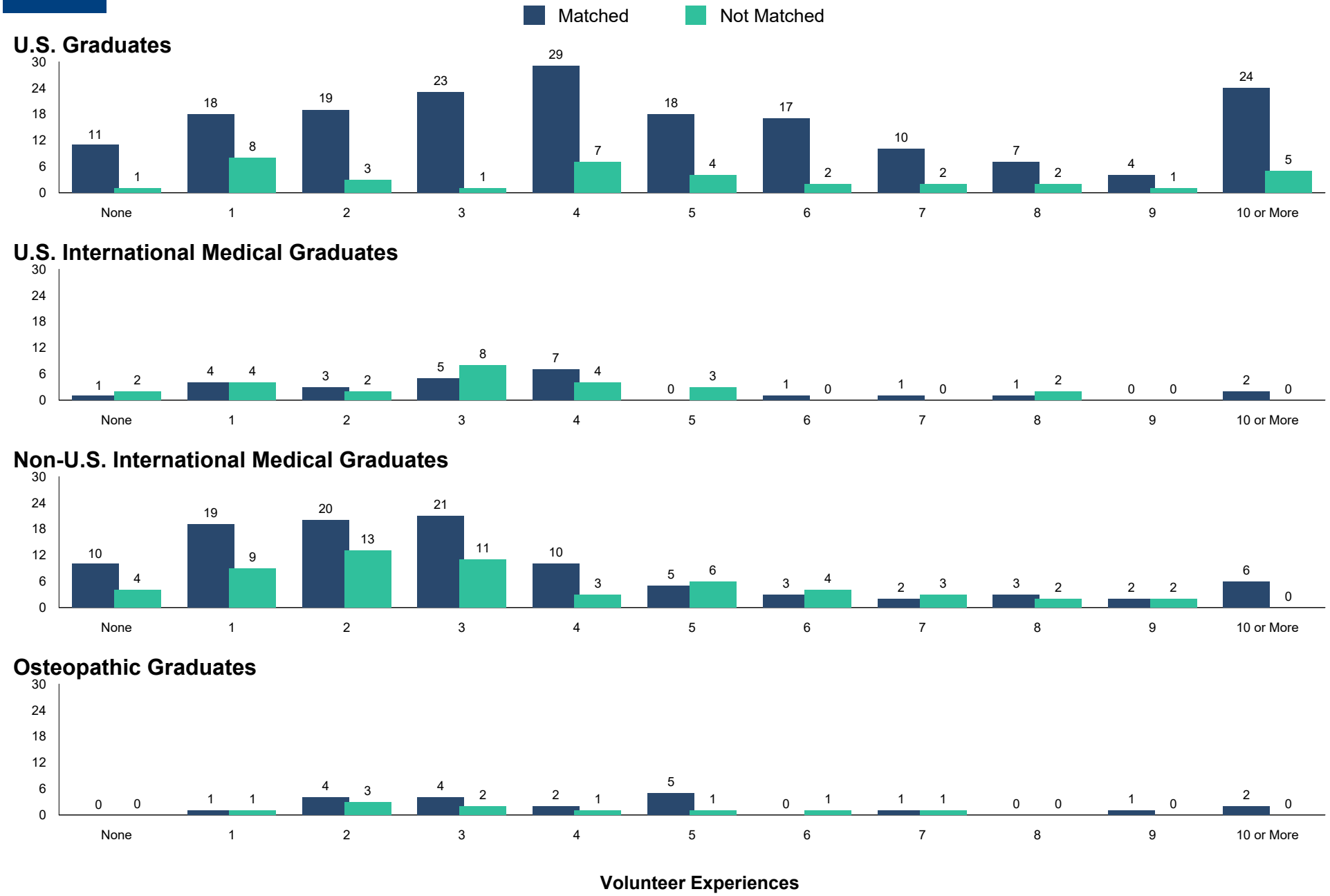
Chart-9 Number of Volunteer Experiences

Hematology and Oncology



Source: NRMP Data Warehouse

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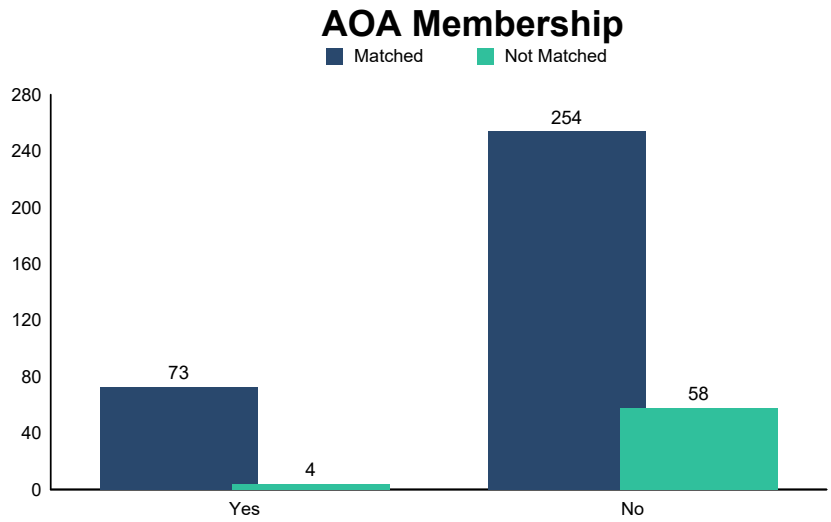
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Hematology and Oncology



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Hospice and Palliative Medicine

Table-1 Summary Statistics
Hospice and Palliative Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=171)	Unmatched (n=30)	Matched (n=31)	Unmatched (n=8)	Matched (n=15)	Unmatched (n=8)	Matched (n=47)	Unmatched (n=10)
1.	Mean number of contiguous ranks	5.5	2.3	5.4	2.6	6.1	2.4	5.1	3.1
2.	Mean number of distinct specialties ranked	1.0	1.0	1.1	1.4	1.0	1.0	1.0	1.1
3.	Mean USMLE Step 1 score	227	223	215	201	217	236	n/a	n/a
4.	Mean USMLE Step 2 score	241	234	223	219	228	236	n/a	n/a
5.	Mean USMLE Step 3 score	229	219	212	215	216	214	n/a	n/a
6.	Mean number of research experiences	3.0	2.9	3.8	2.0	2.6	3.6	1.6	1.6
7.	Mean number of abstracts, presentations, and publications	5.1	5.5	5.1	3.6	2.7	3.1	2.9	4.0
8.	Mean number of work experiences	3.6	4.9	3.3	4.0	2.6	3.8	3.6	3.3
9.	Mean number of volunteer experiences	6.1	4.5	4.7	5.8	1.0	2.3	4.5	2.8
10.	Percentage who are AOA members	13.5	10.0	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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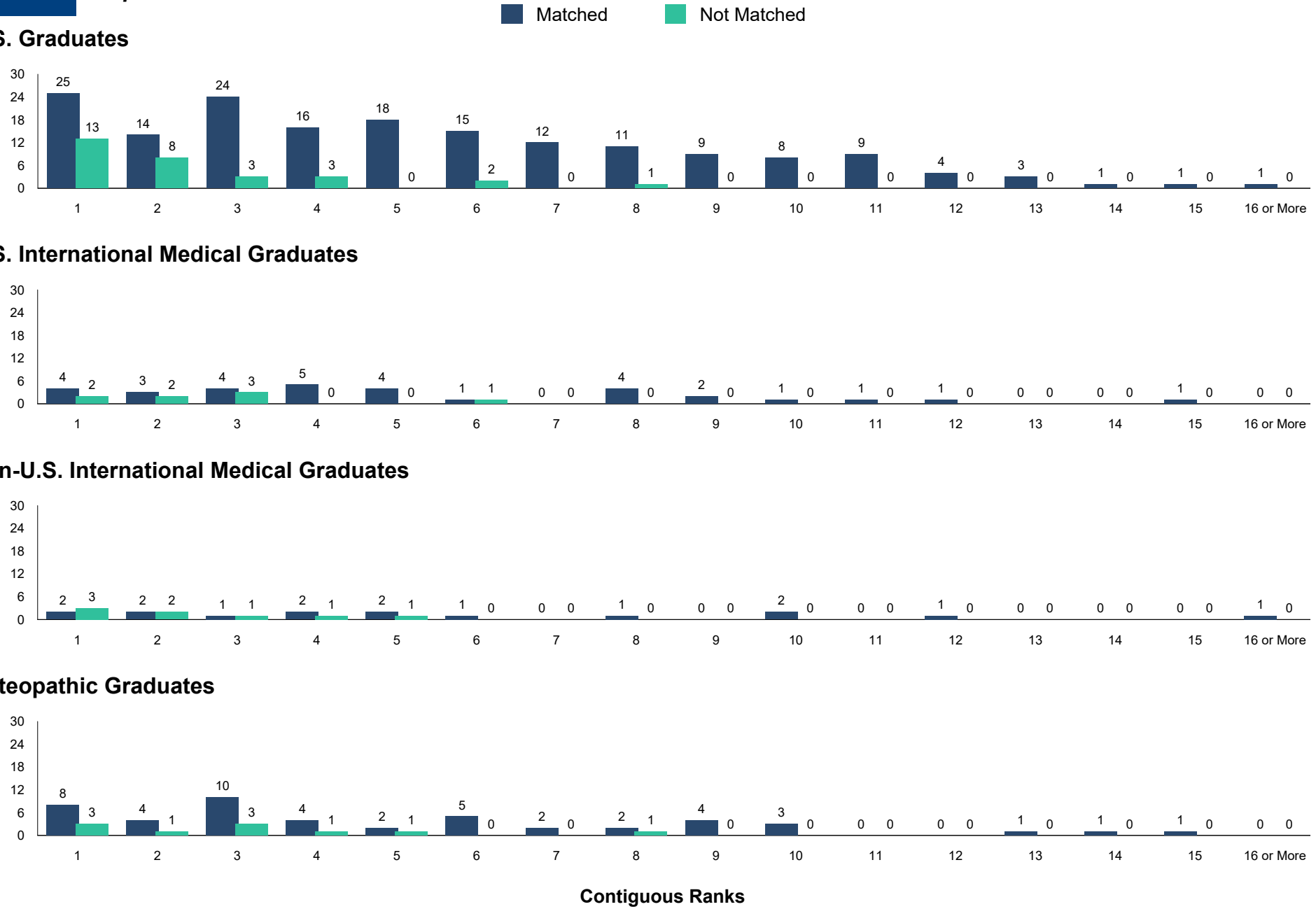
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Hospice and Palliative Medicine



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Hospice and Palliative Medicine

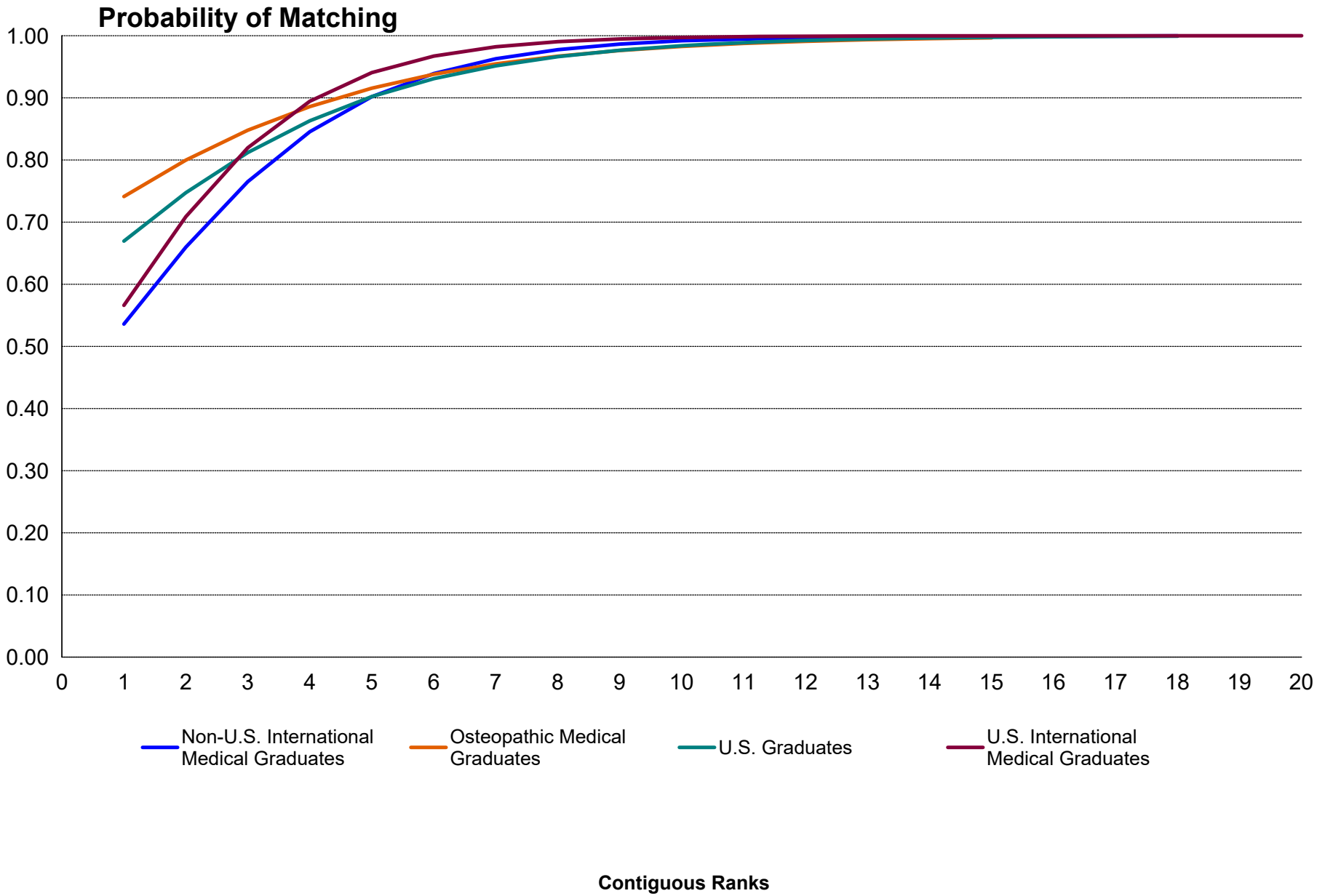

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Chart-2 Number of Distinct Specialties Ranked

Hospice and Palliative Medicine

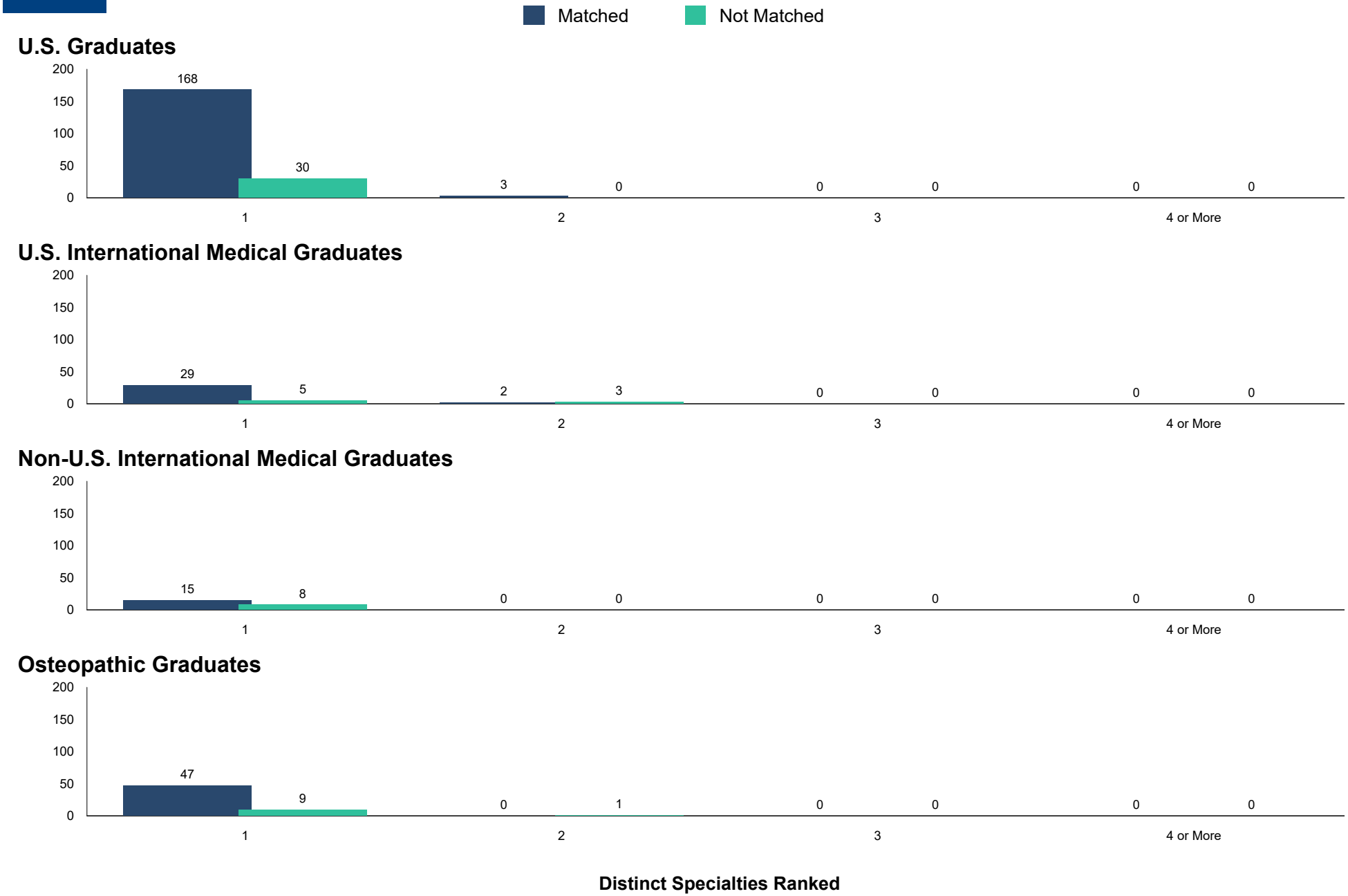

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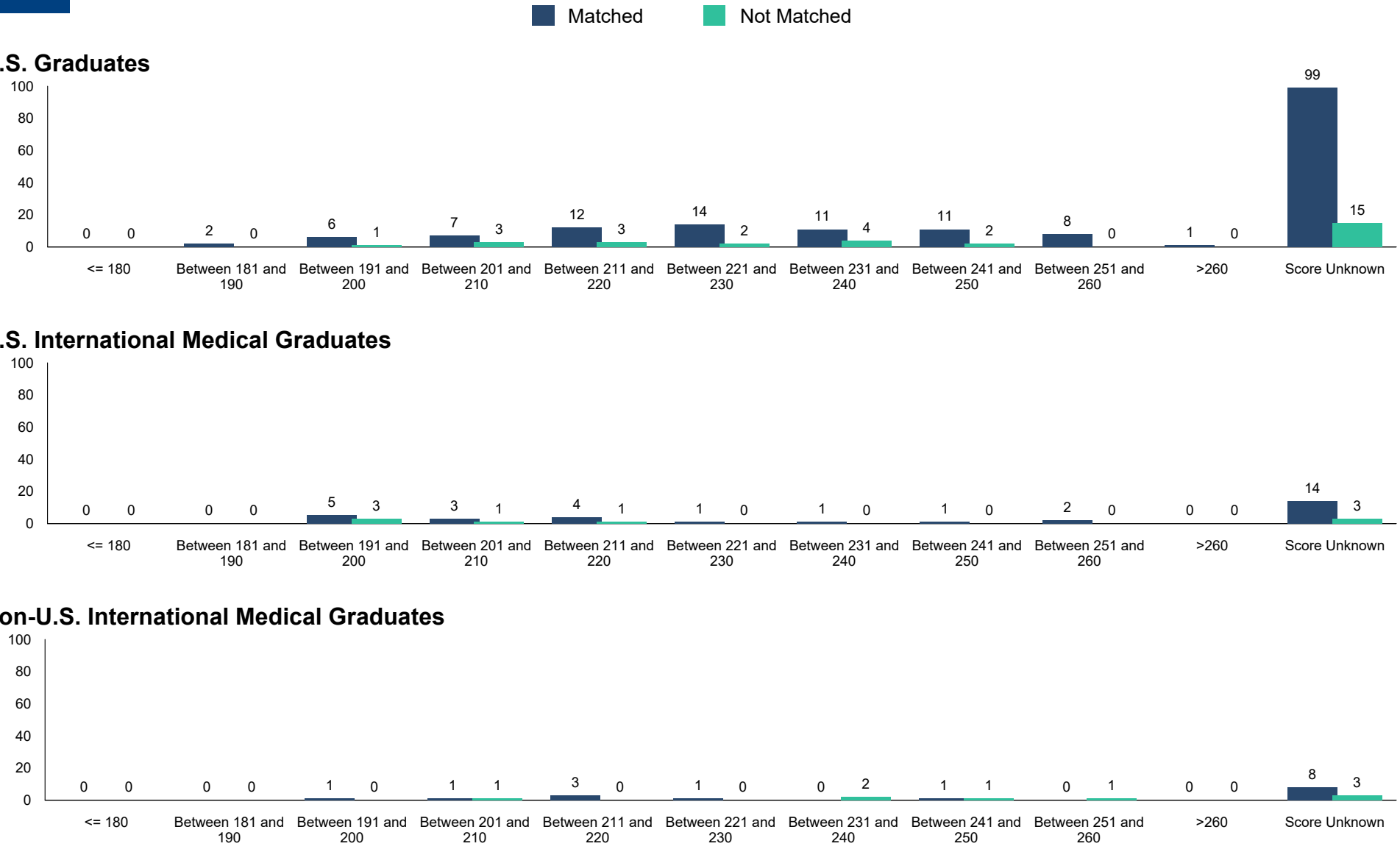
Chart-3 USMLE Step 1 Scores

Hospice and Palliative Medicine



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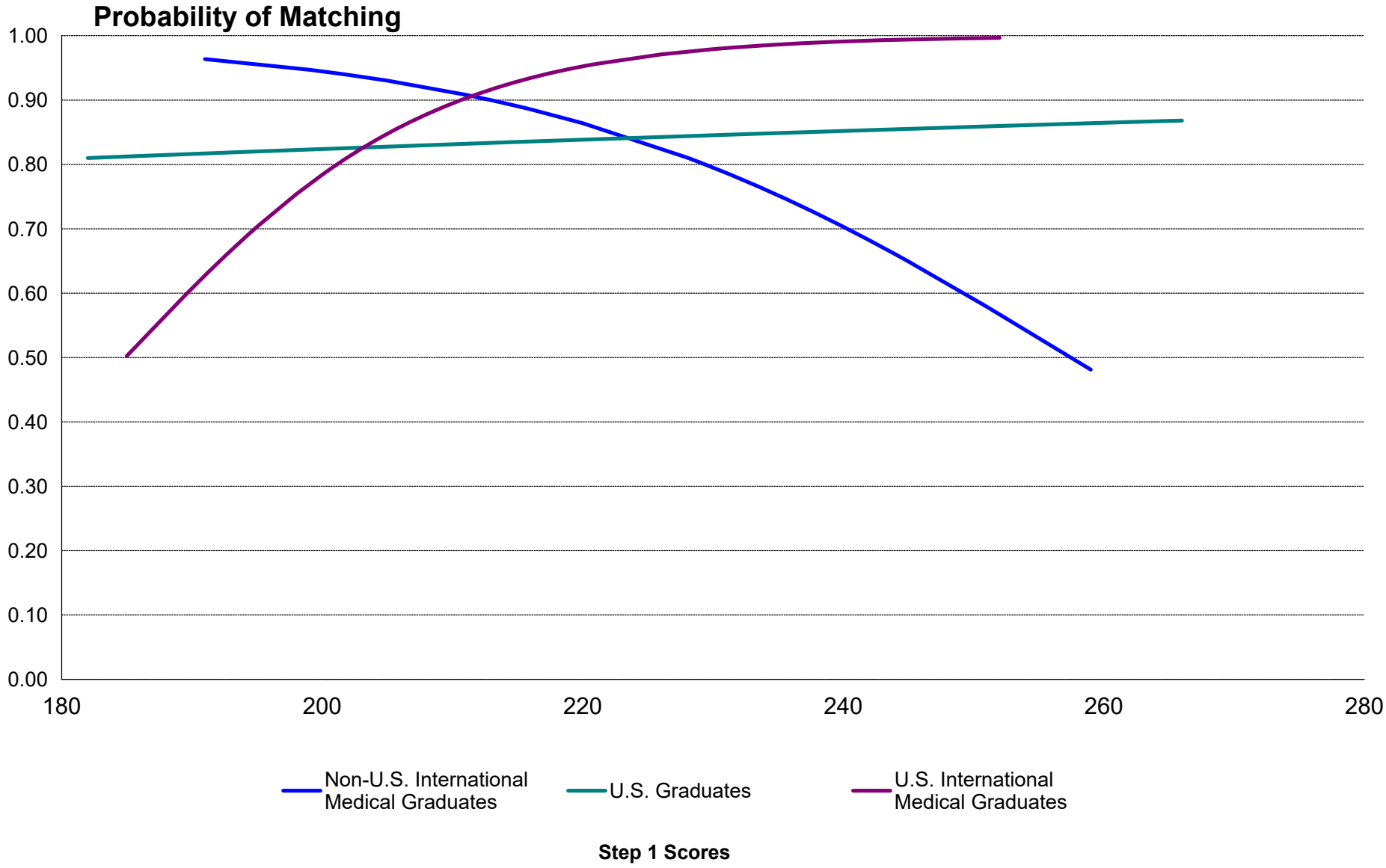
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Hospice and Palliative Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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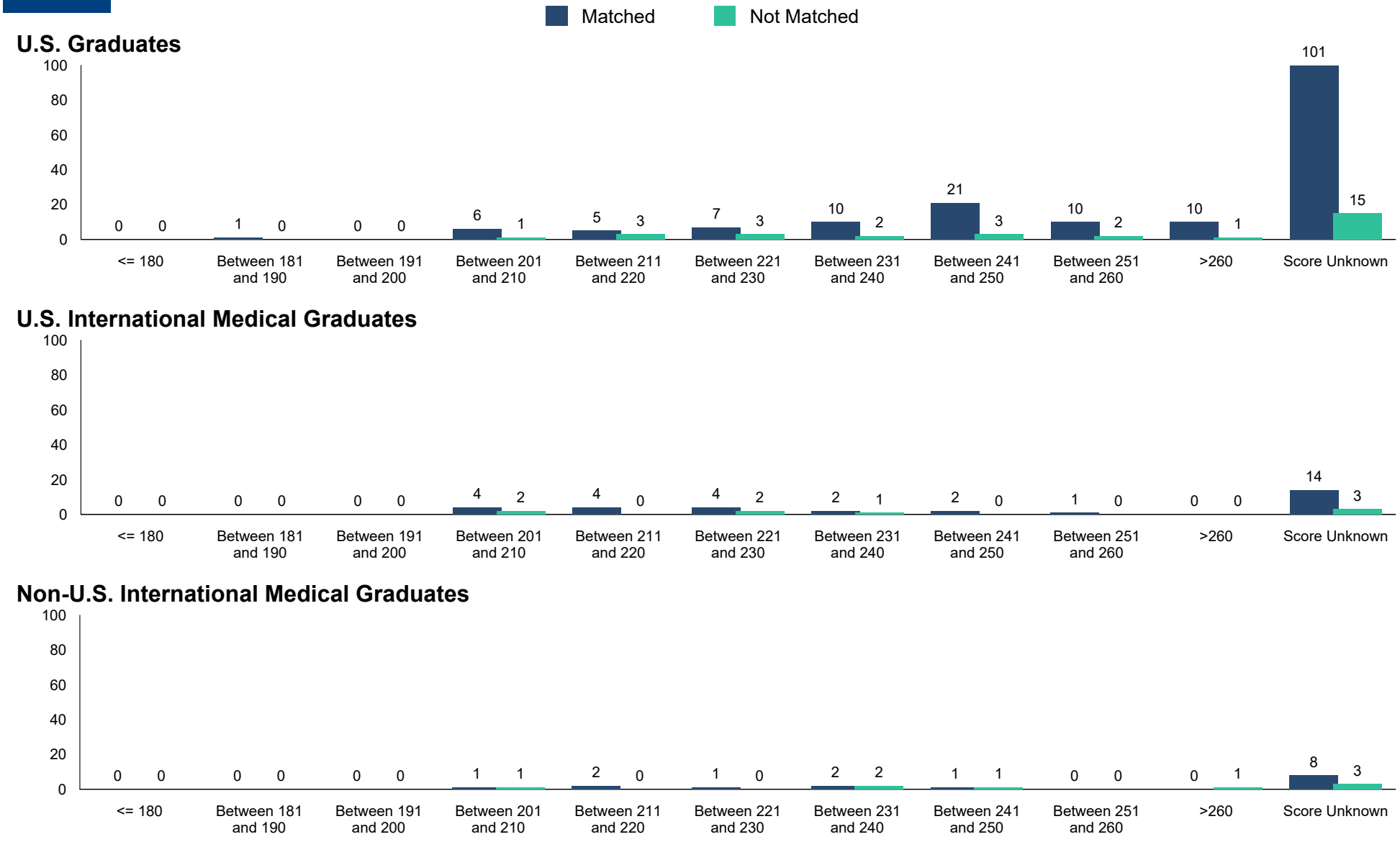
Chart-4 USMLE Step 2 Scores

Hospice and Palliative Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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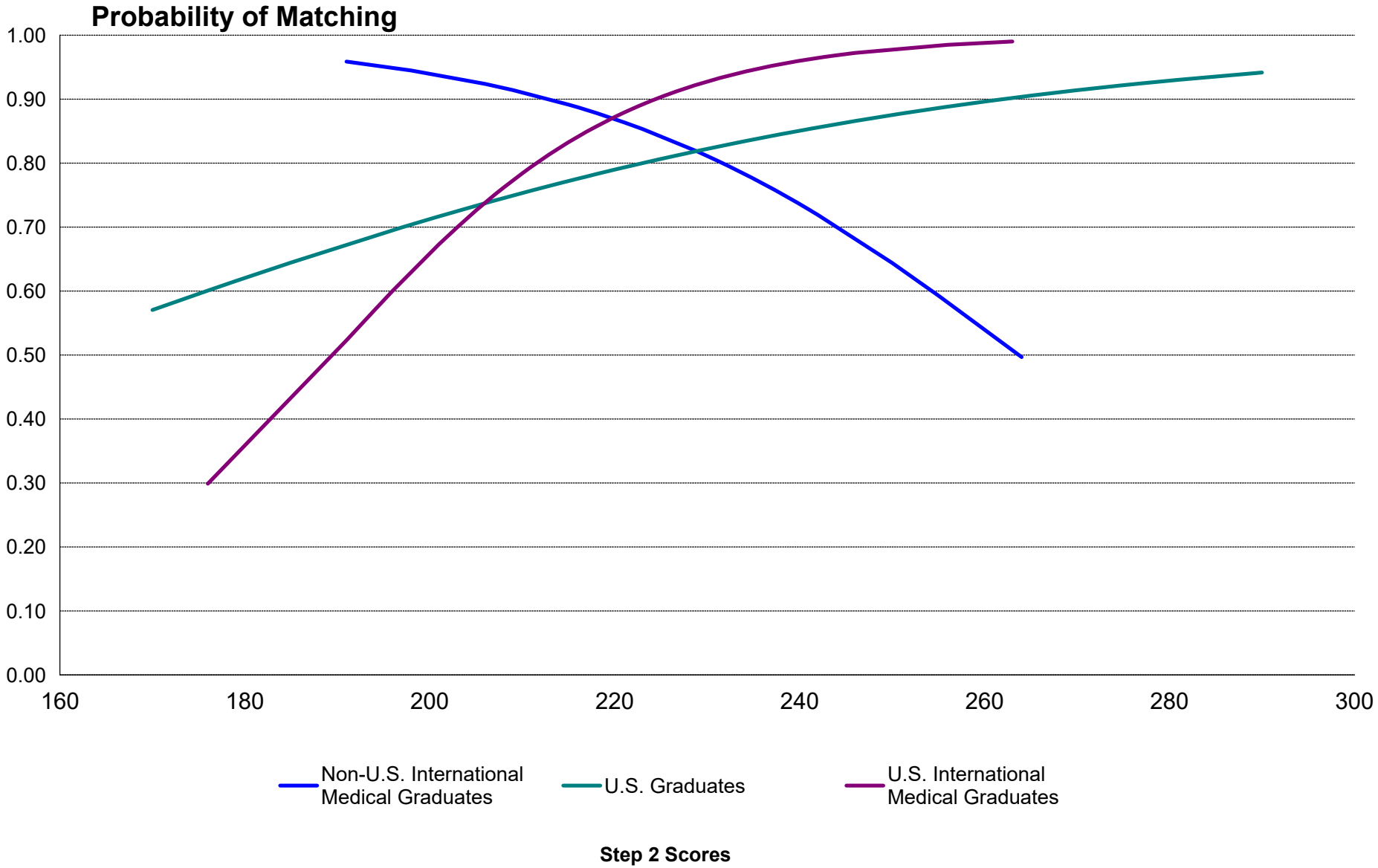
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Hospice and Palliative Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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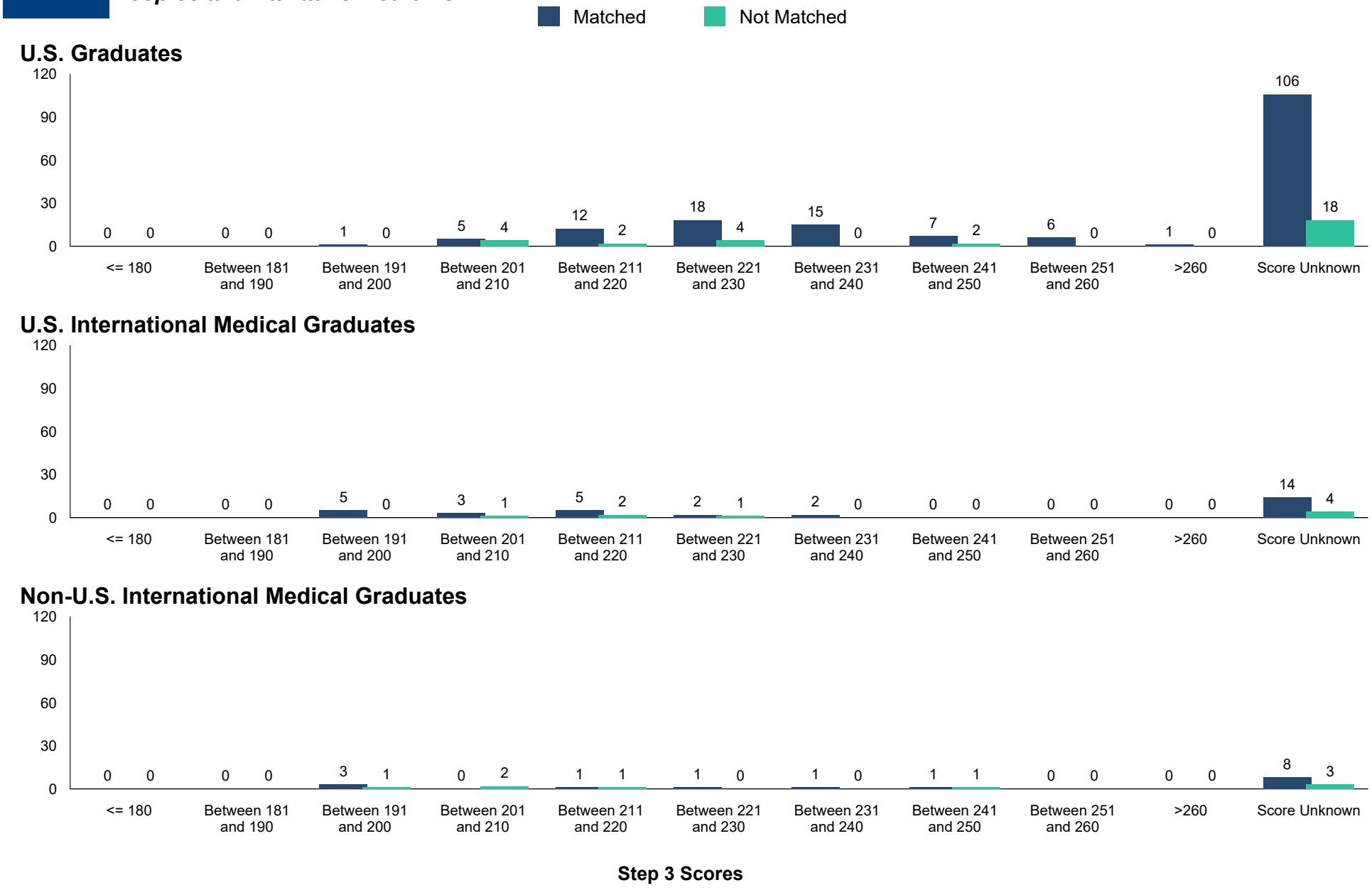
Chart-5 USMLE Step 3 Scores

Hospice and Palliative Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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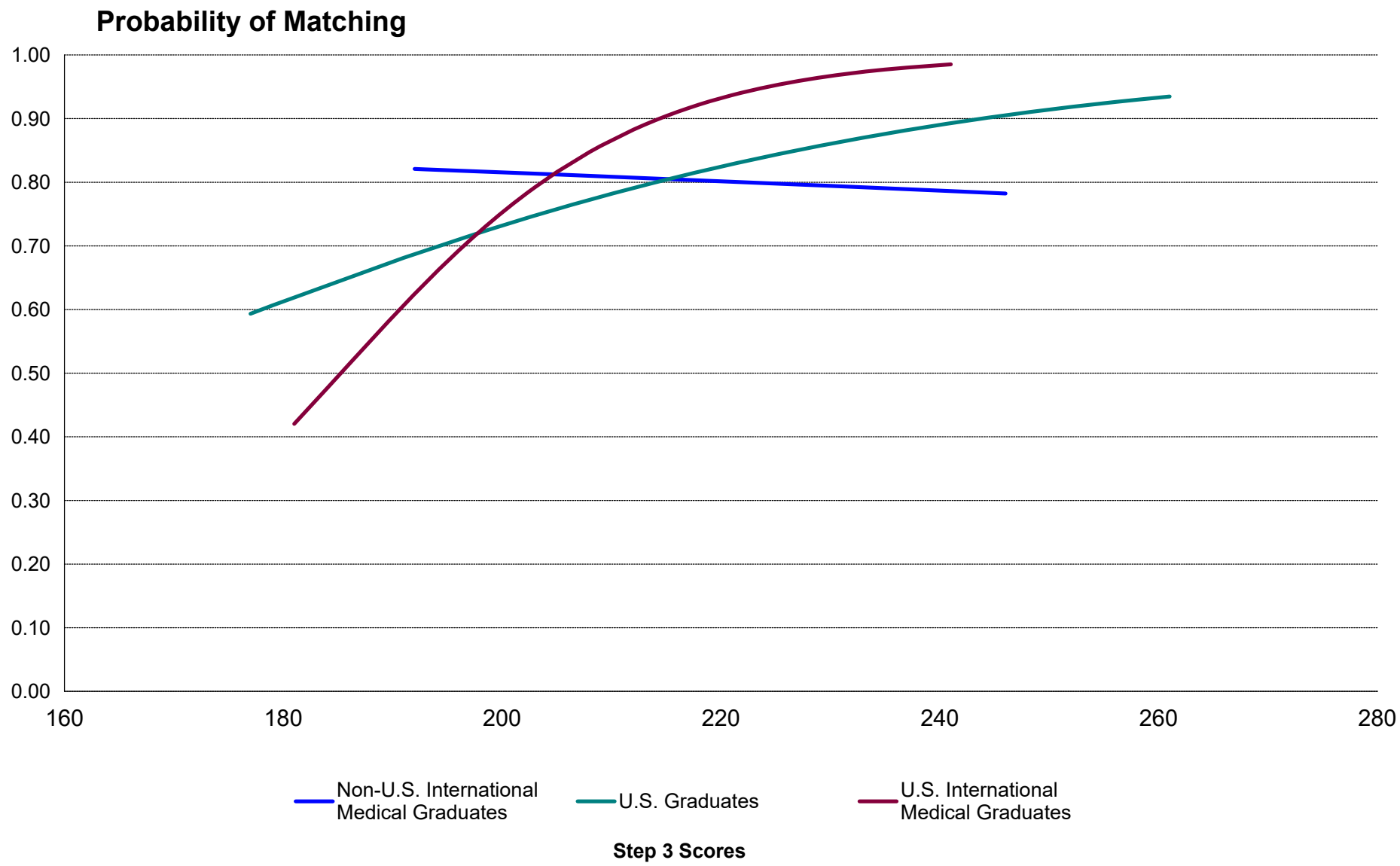
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Hospice and Palliative Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Hospice and Palliative Medicine

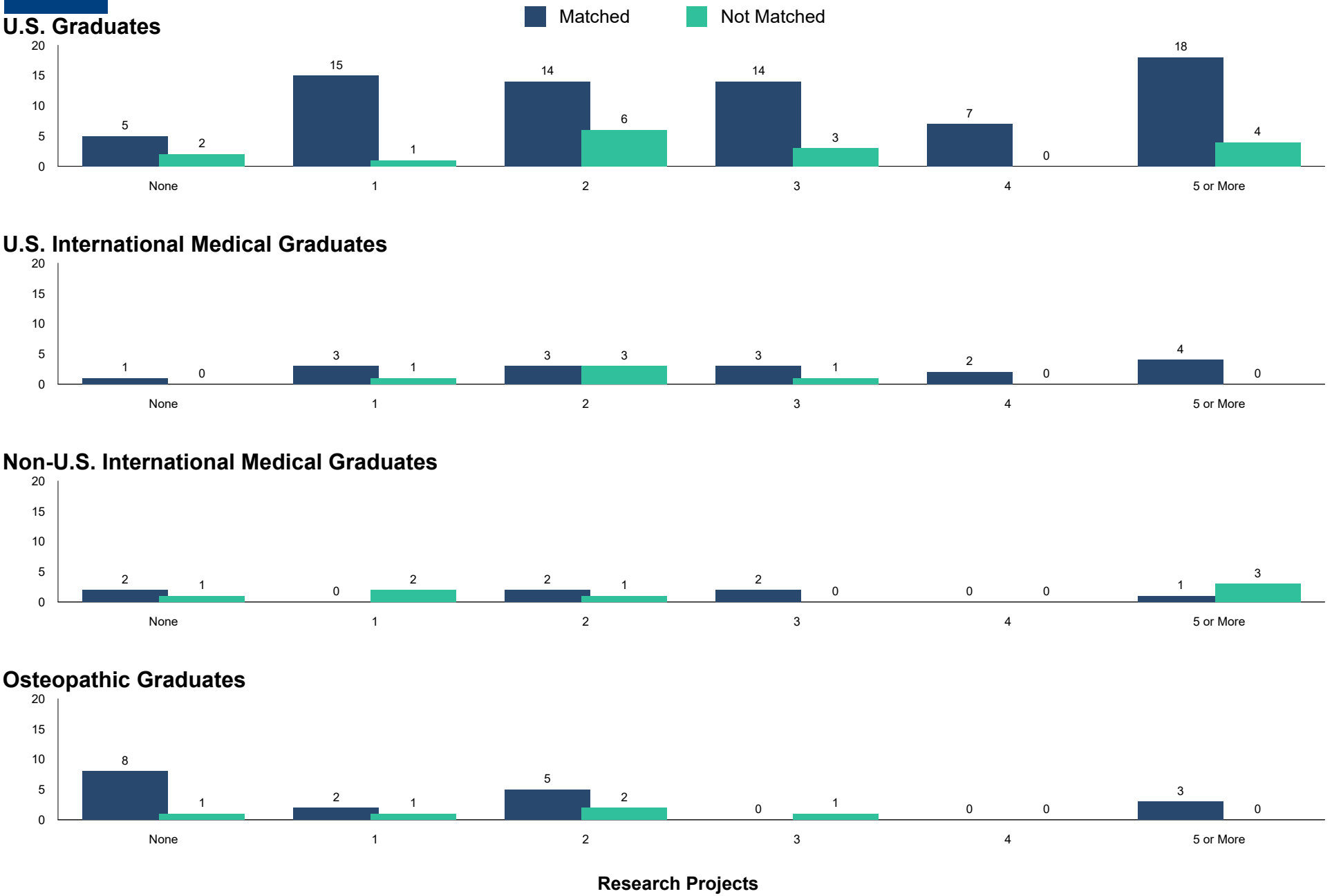

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Chart-7 Number of Abstracts, Presentations, and Publications

Hospice and Palliative Medicine

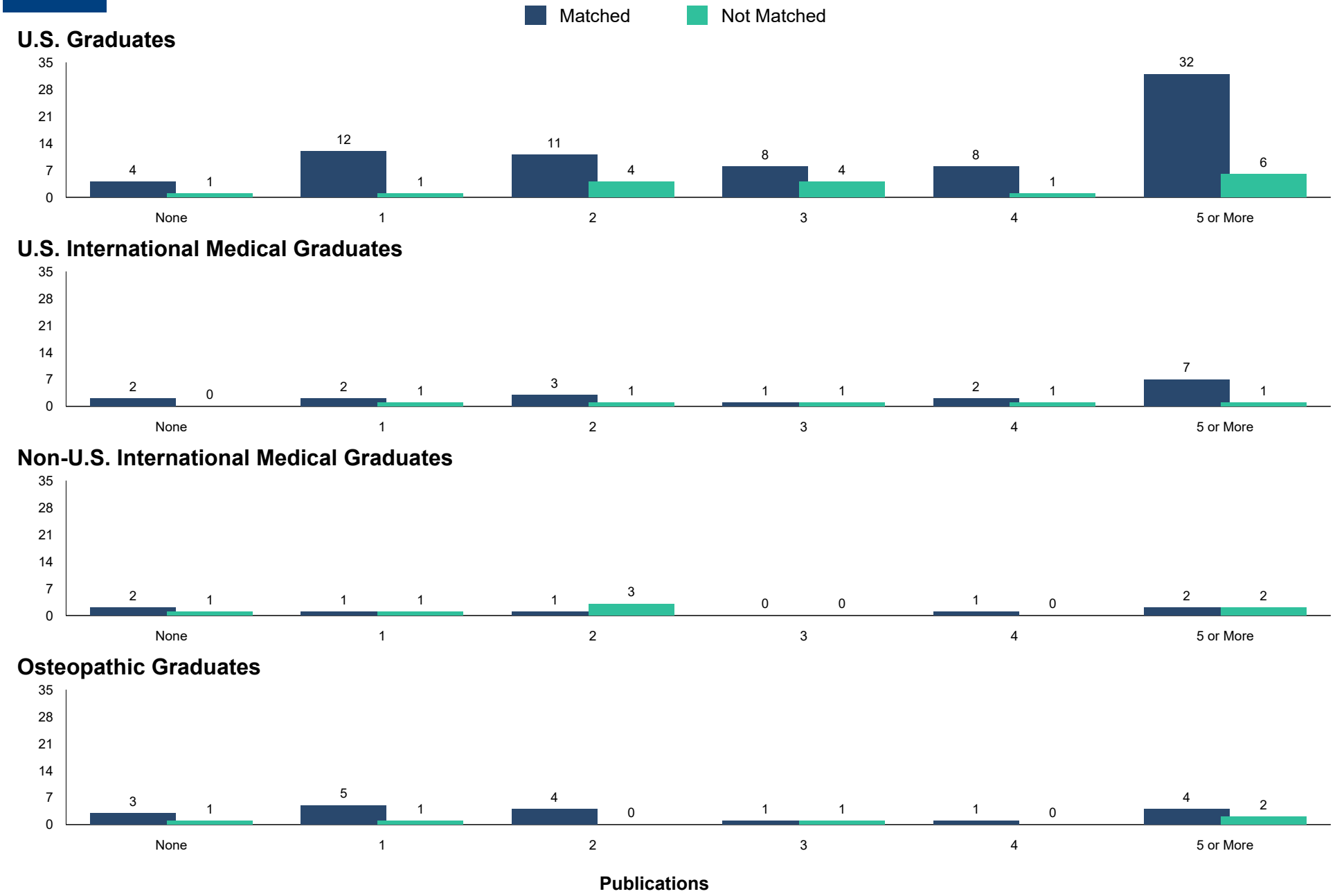

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Chart-8 Number of Work Experiences

Hospice and Palliative Medicine

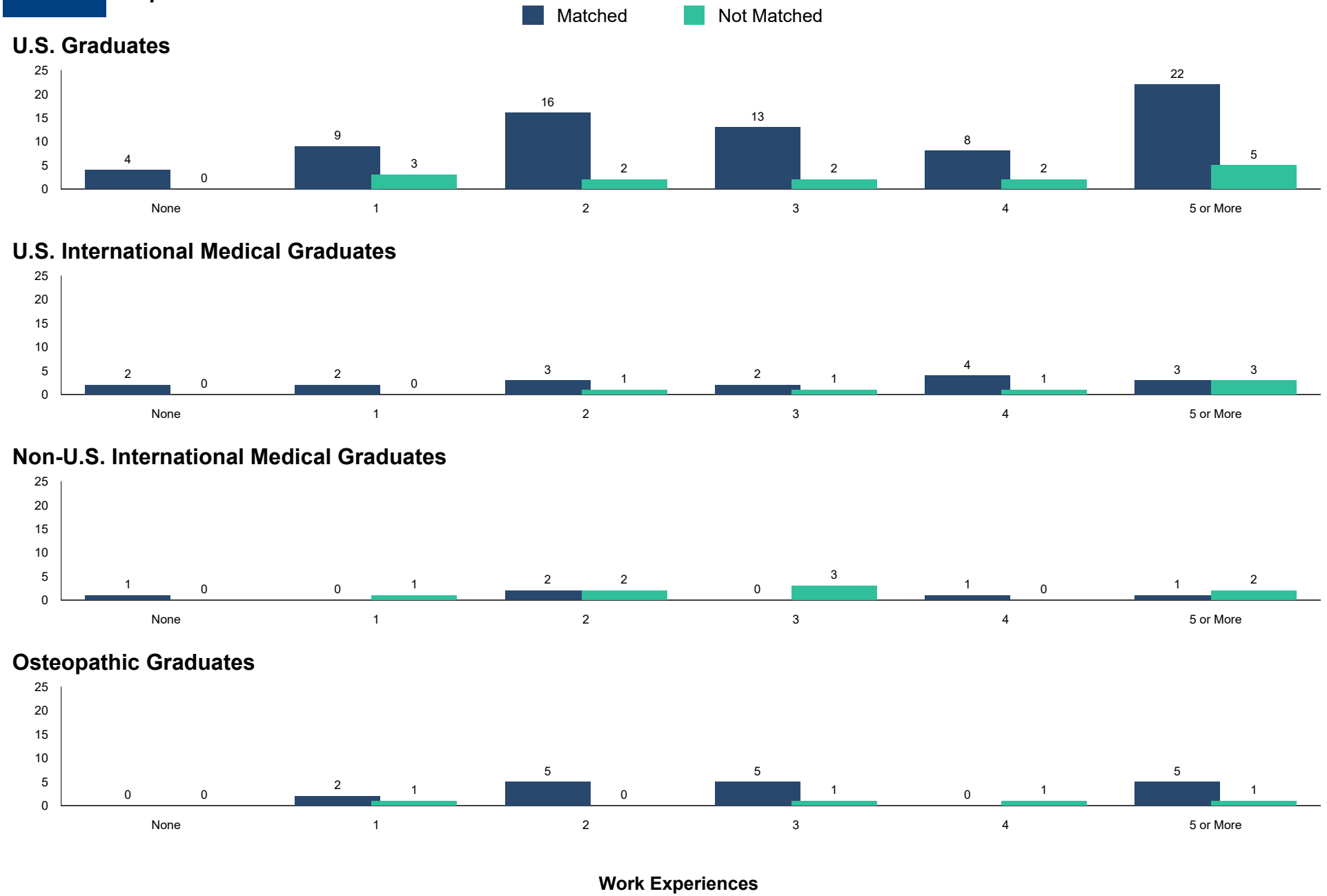

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Chart-9 Number of Volunteer Experiences

Hospice and Palliative Medicine

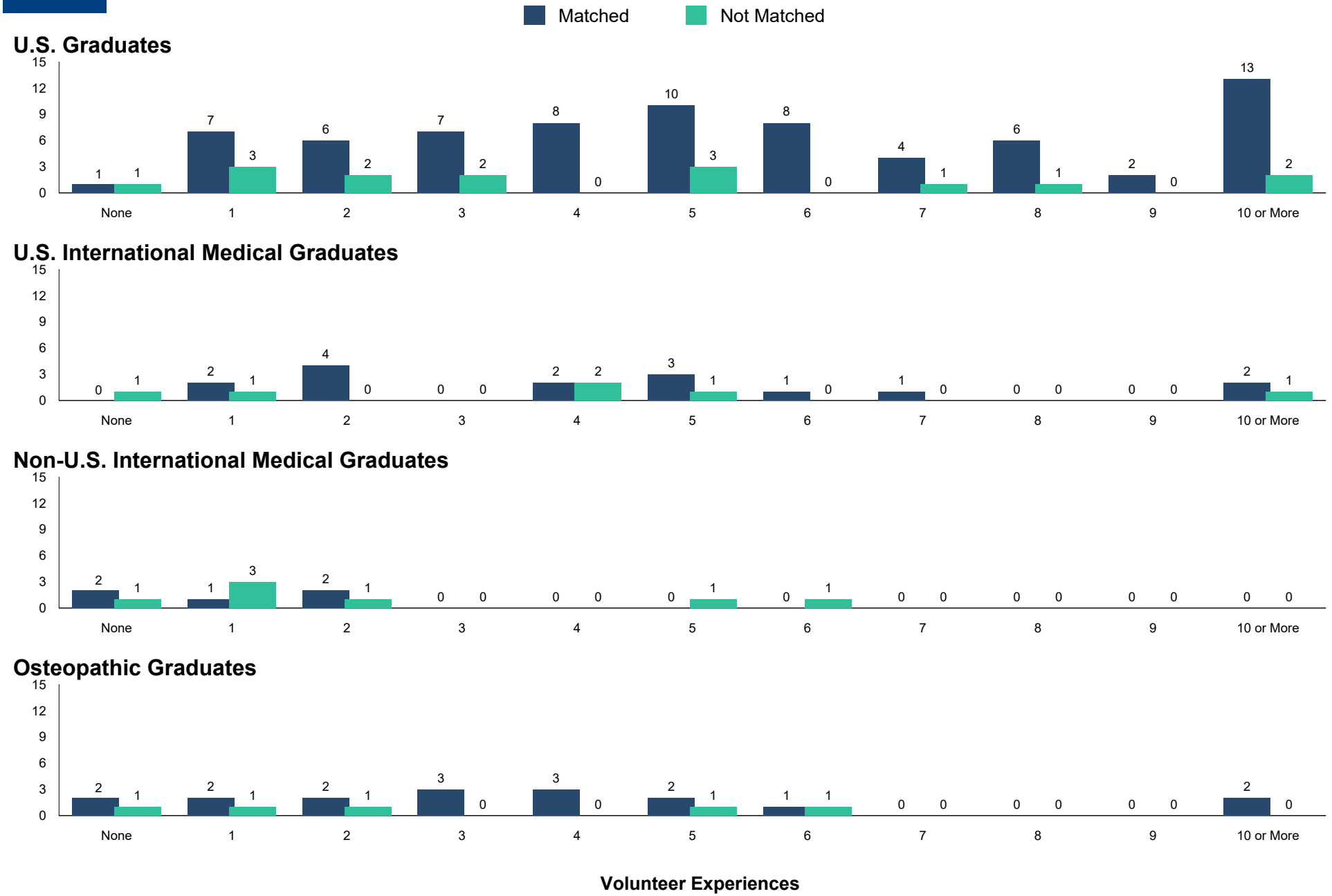

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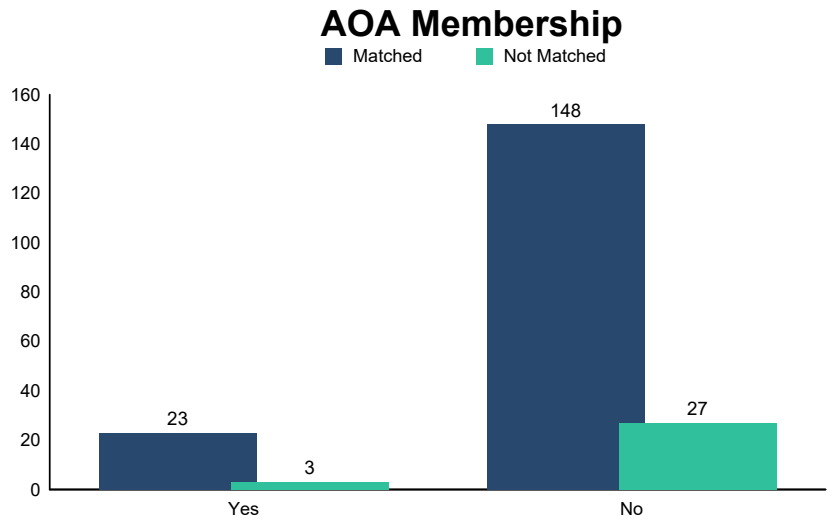
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Hospice and Palliative Medicine



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Infectious Disease

Table-1 Summary Statistics
Infectious Disease

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=158)	Unmatched (n=5)	Matched (n=43)	Unmatched (n=5)	Matched (n=72)	Unmatched (n=9)	Matched (n=40)	Unmatched (n=3)
1.	Mean number of contiguous ranks	6.9	2.0	7.7	2.2	10.1	3.1	7.0	2.7
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	237	229	226	230	234	234	n/a	n/a
4.	Mean USMLE Step 2 score	251	236	231	236	240	236	n/a	n/a
5.	Mean USMLE Step 3 score	237	222	218	225	224	216	n/a	n/a
6.	Mean number of research experiences	3.6	3.3	2.2	n/a	2.4	1.3	2.8	0.0
7.	Mean number of abstracts, presentations, and publications	7.6	9.5	4.3	n/a	7.4	5.4	4.9	6.0
8.	Mean number of work experiences	2.5	3.3	2.3	2.0	3.5	3.3	2.9	1.0
9.	Mean number of volunteer experiences	4.9	4.8	2.9	n/a	3.9	1.8	3.7	1.0
10.	Percentage who are AOA members	24.1	20.0	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

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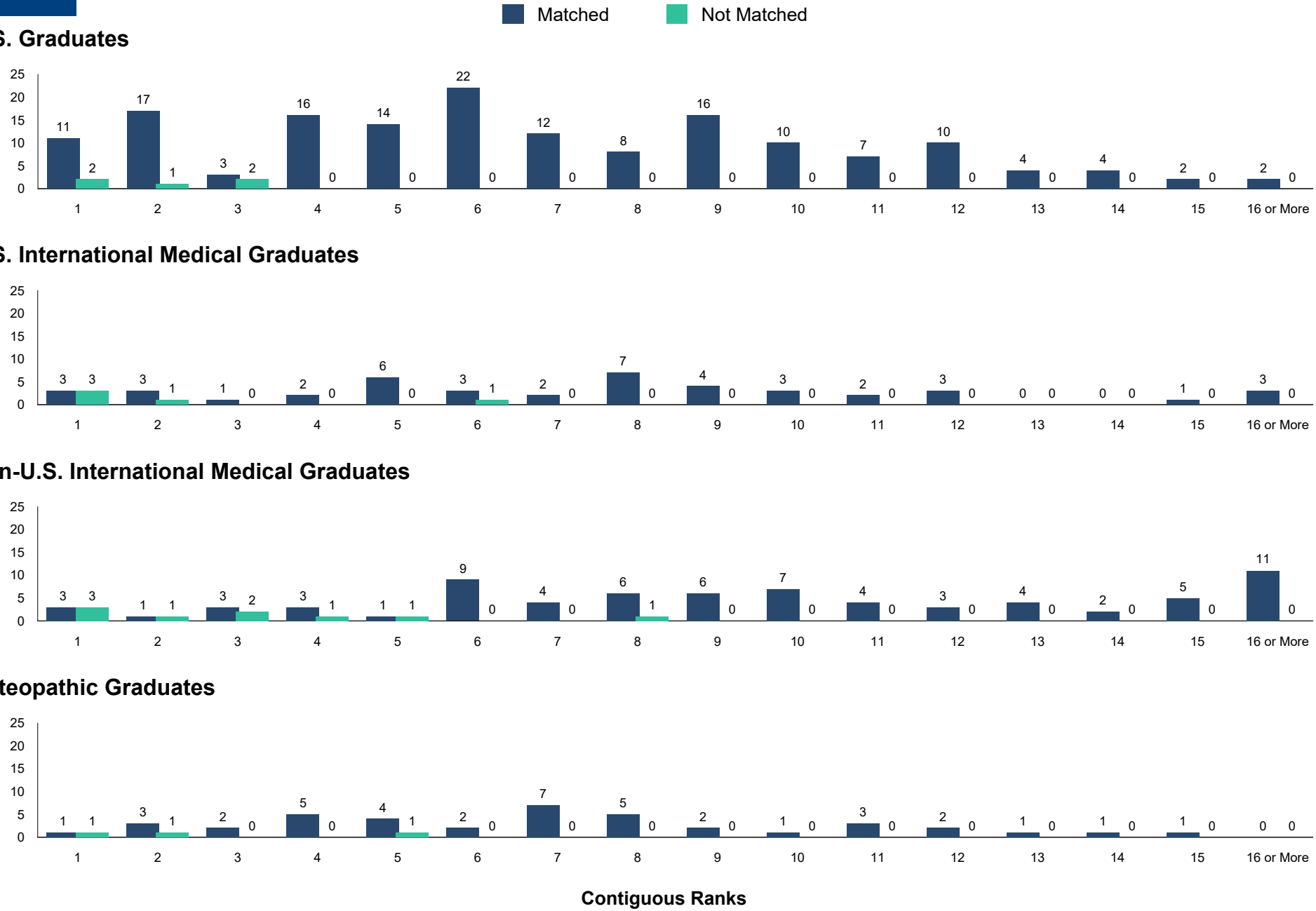
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Infectious Disease



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Infectious Disease

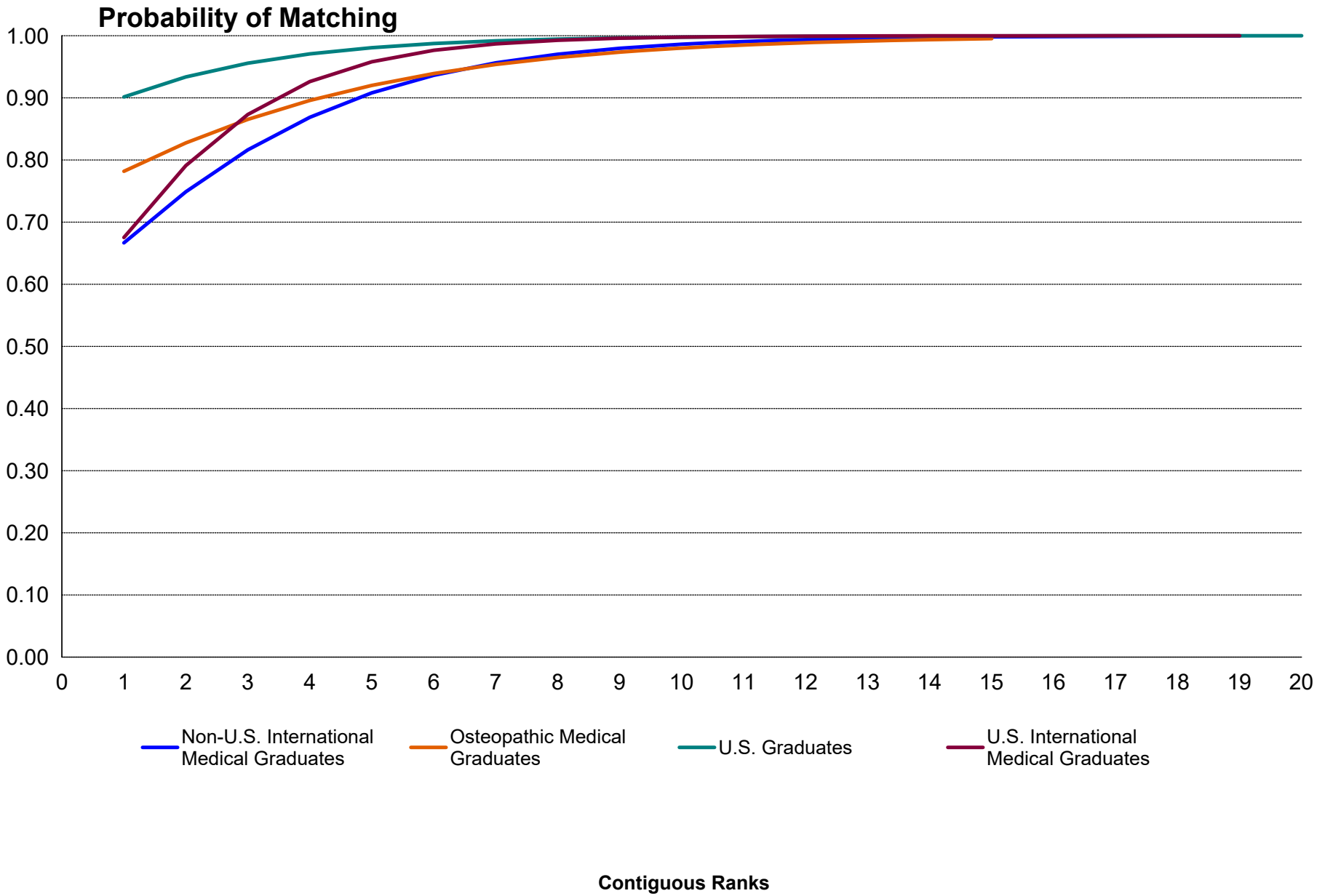

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Chart-2 Number of Distinct Specialties Ranked

Infectious Disease

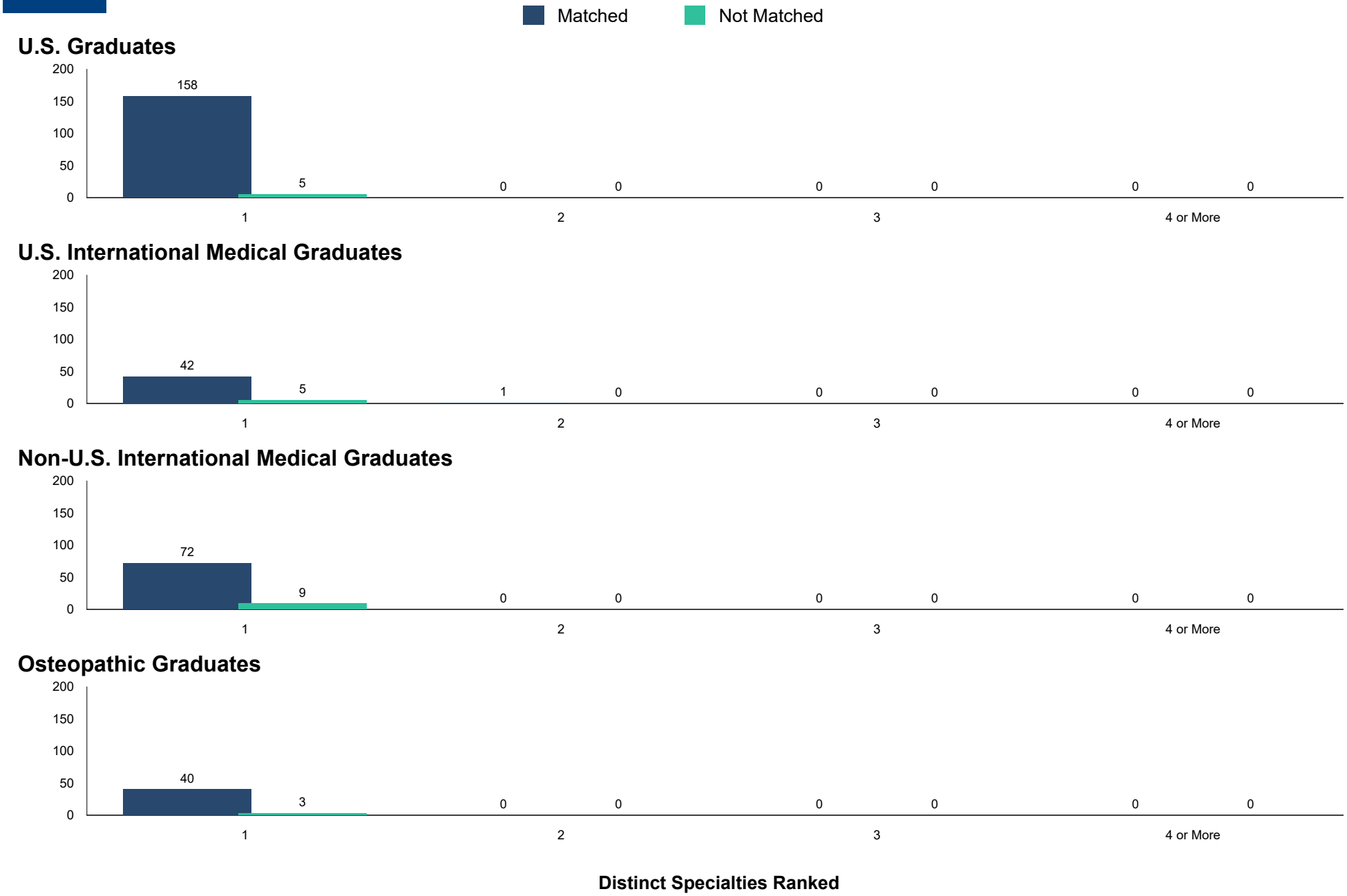

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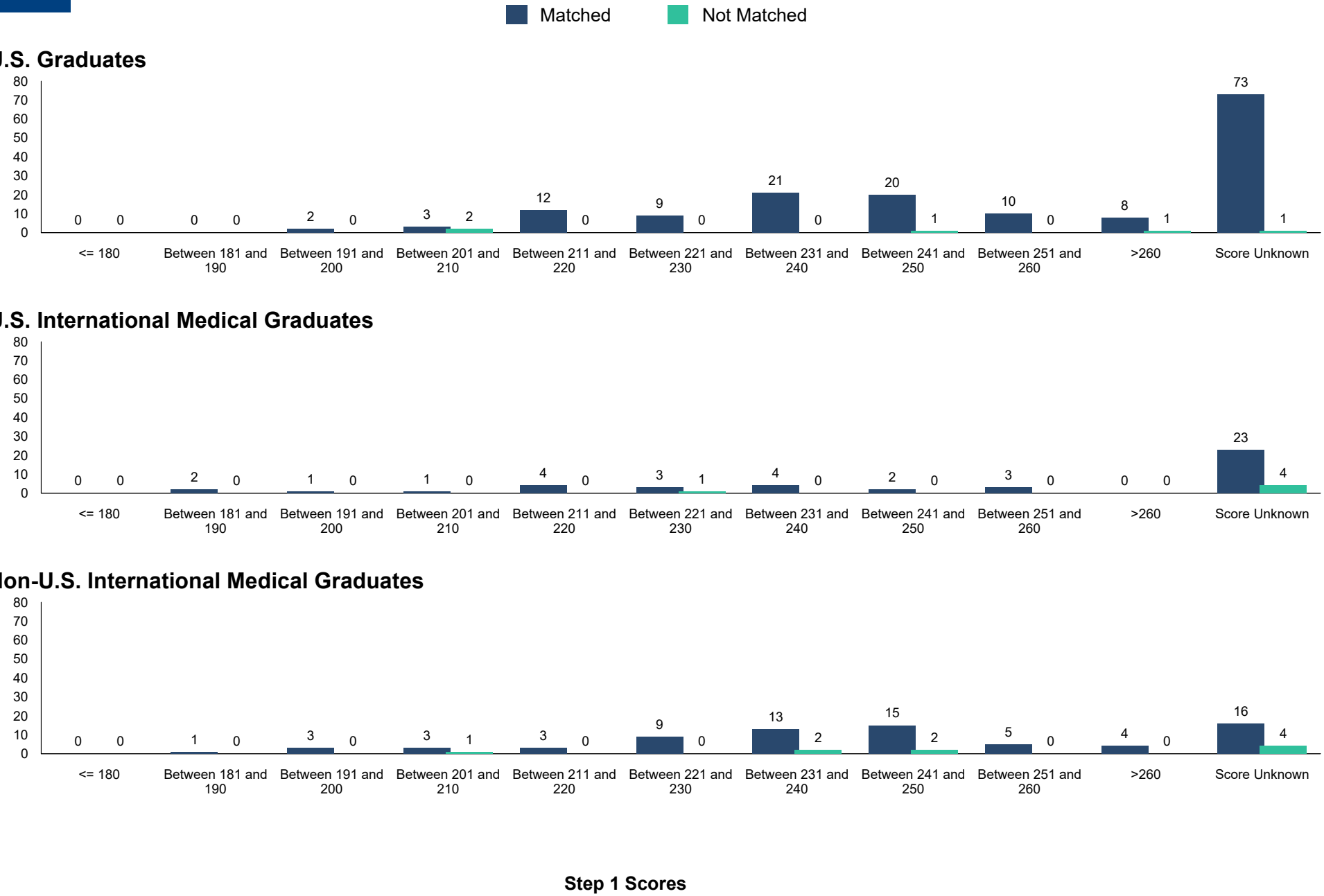
Chart-3 USMLE Step 1 Scores

Infectious Disease



Source: NRMP Data Warehouse

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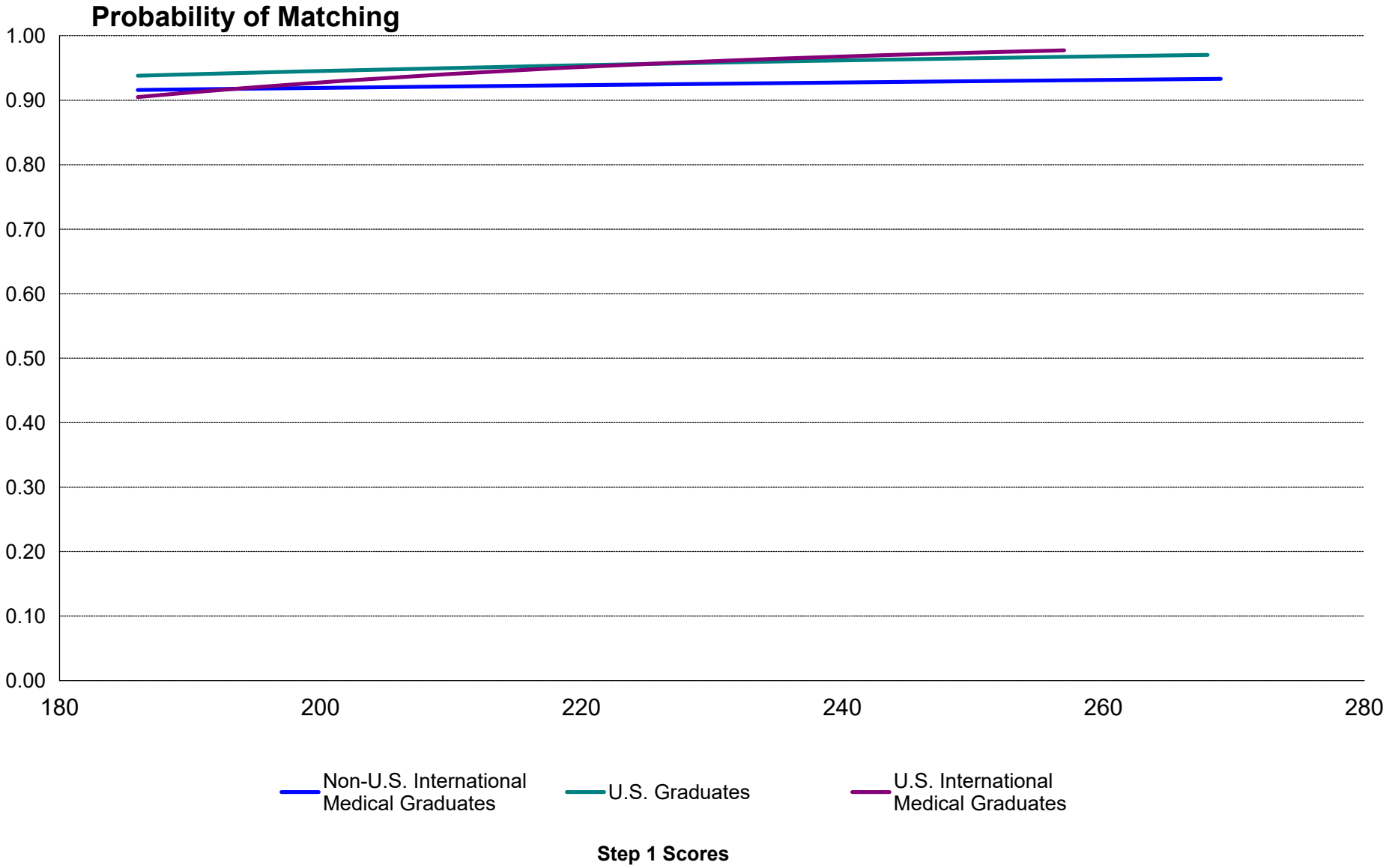
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Infectious Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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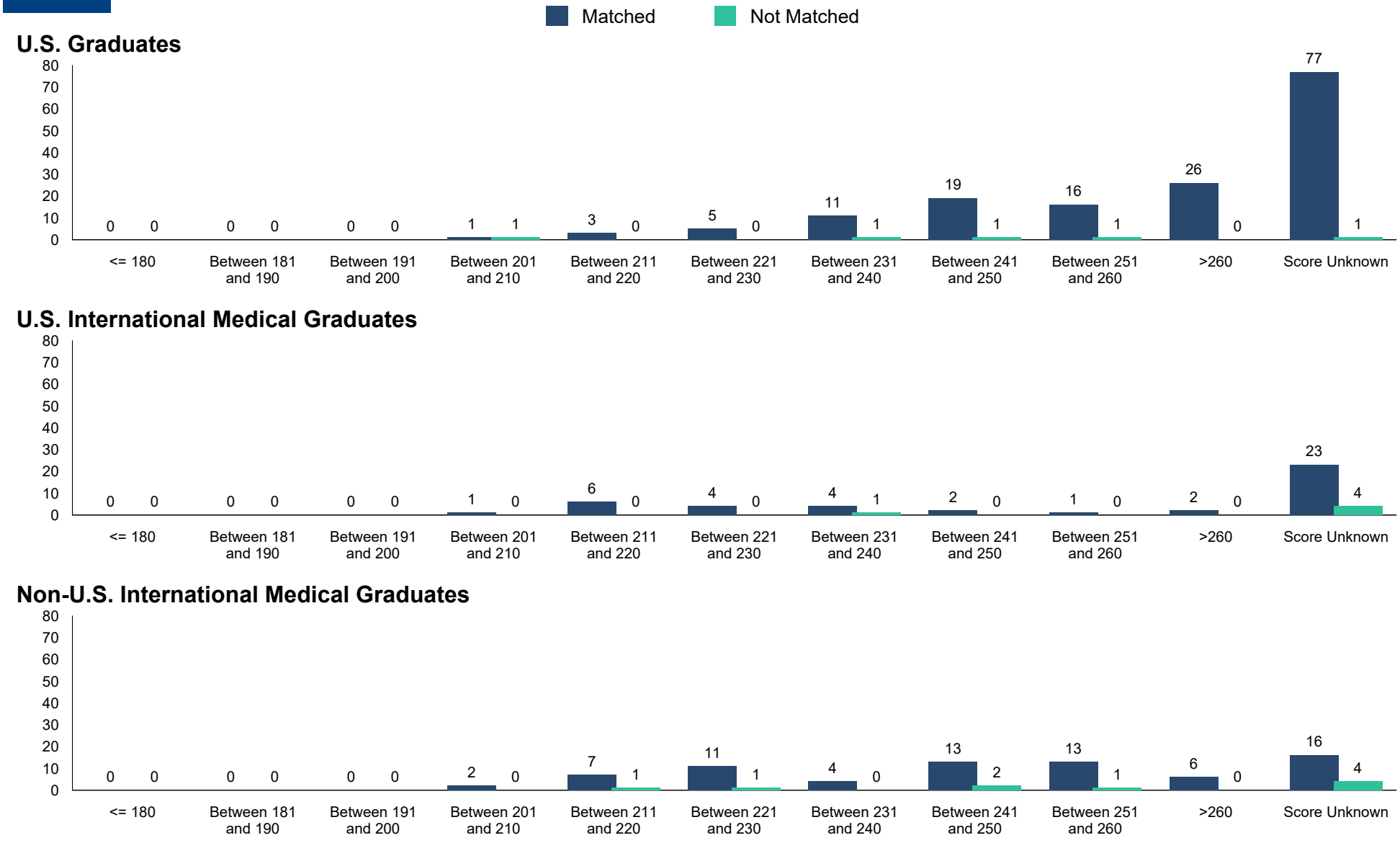
Chart-4 USMLE Step 2 Scores

Infectious Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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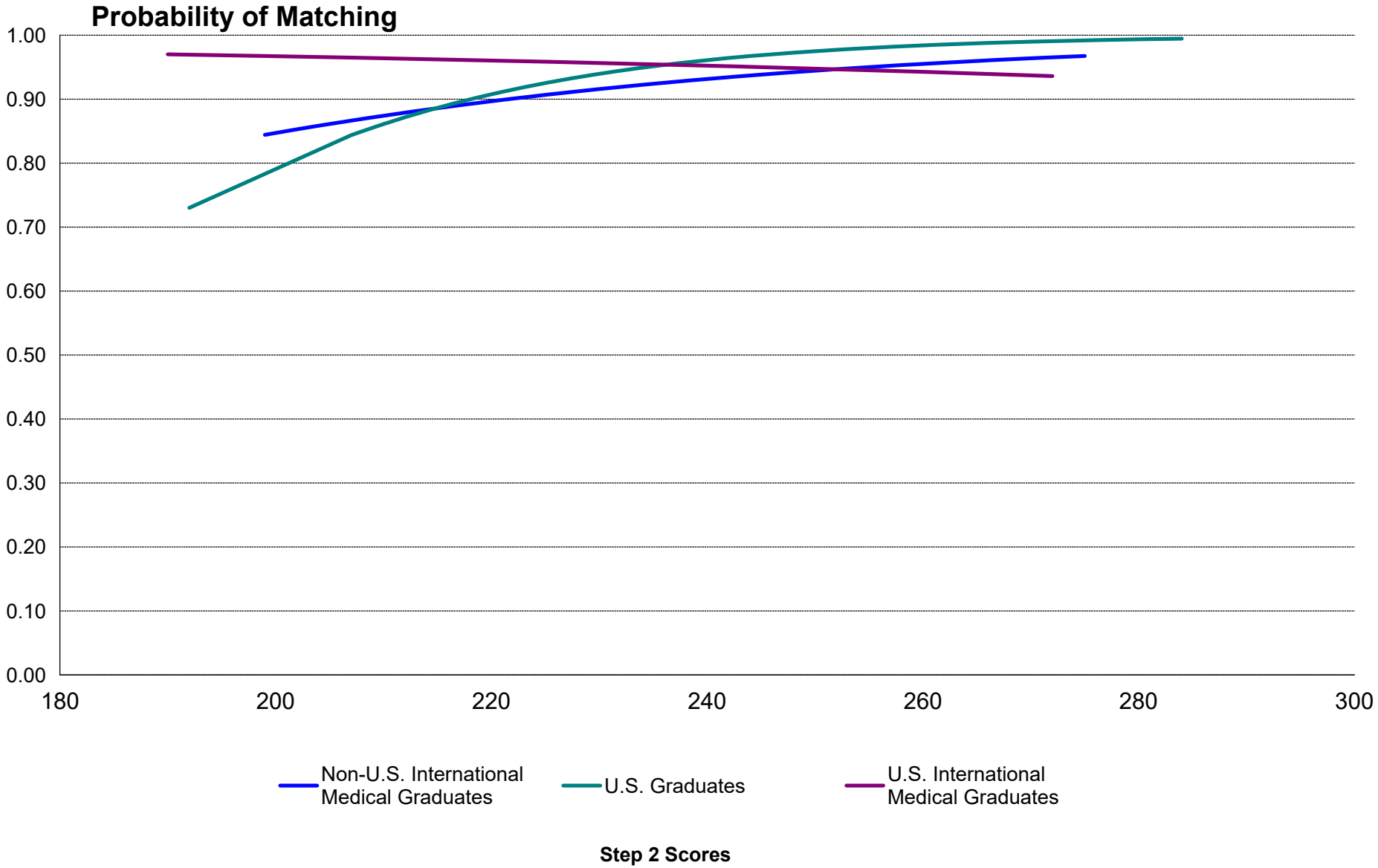
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Infectious Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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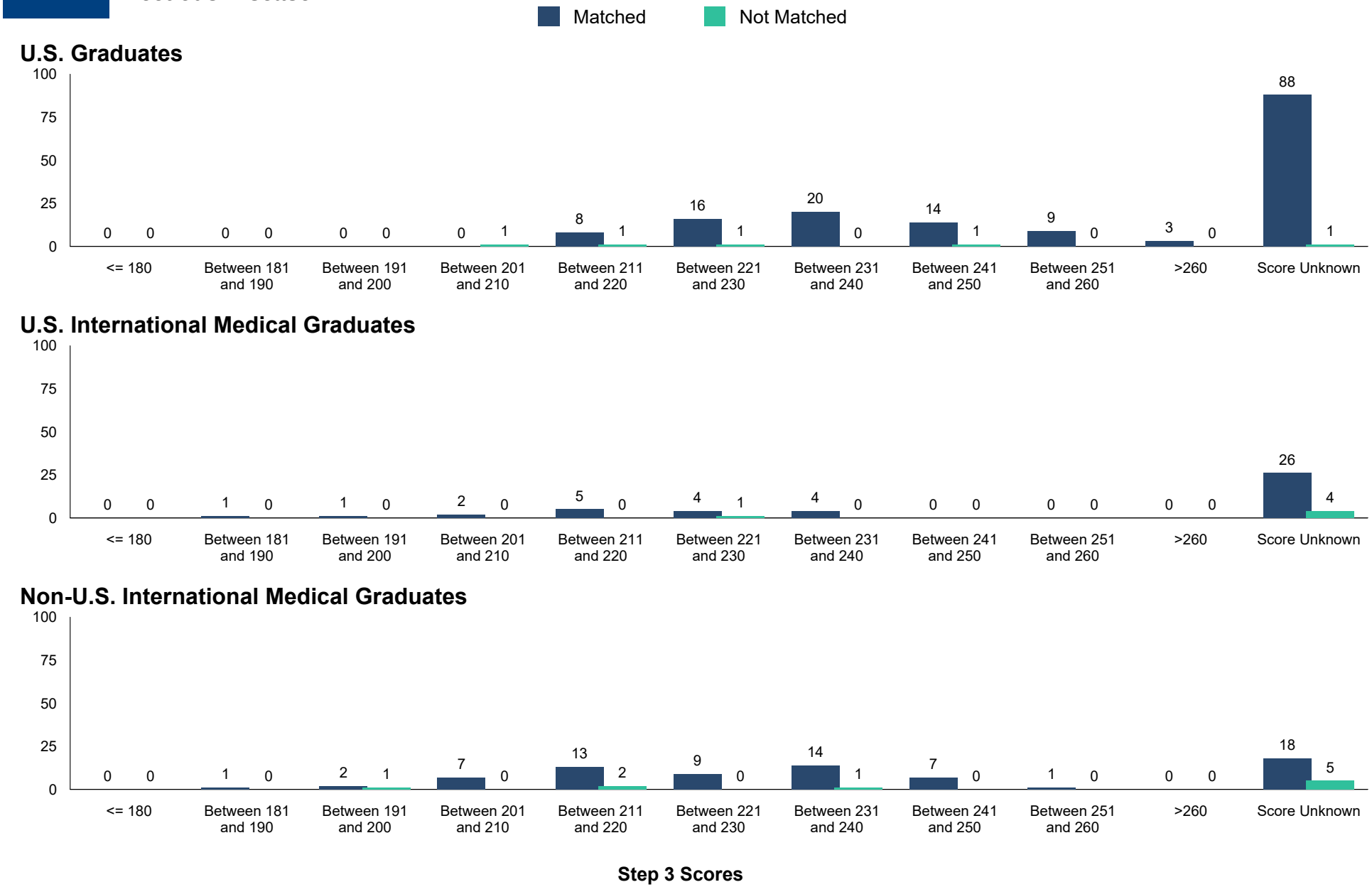
Chart-5 USMLE Step 3 Scores
Infectious Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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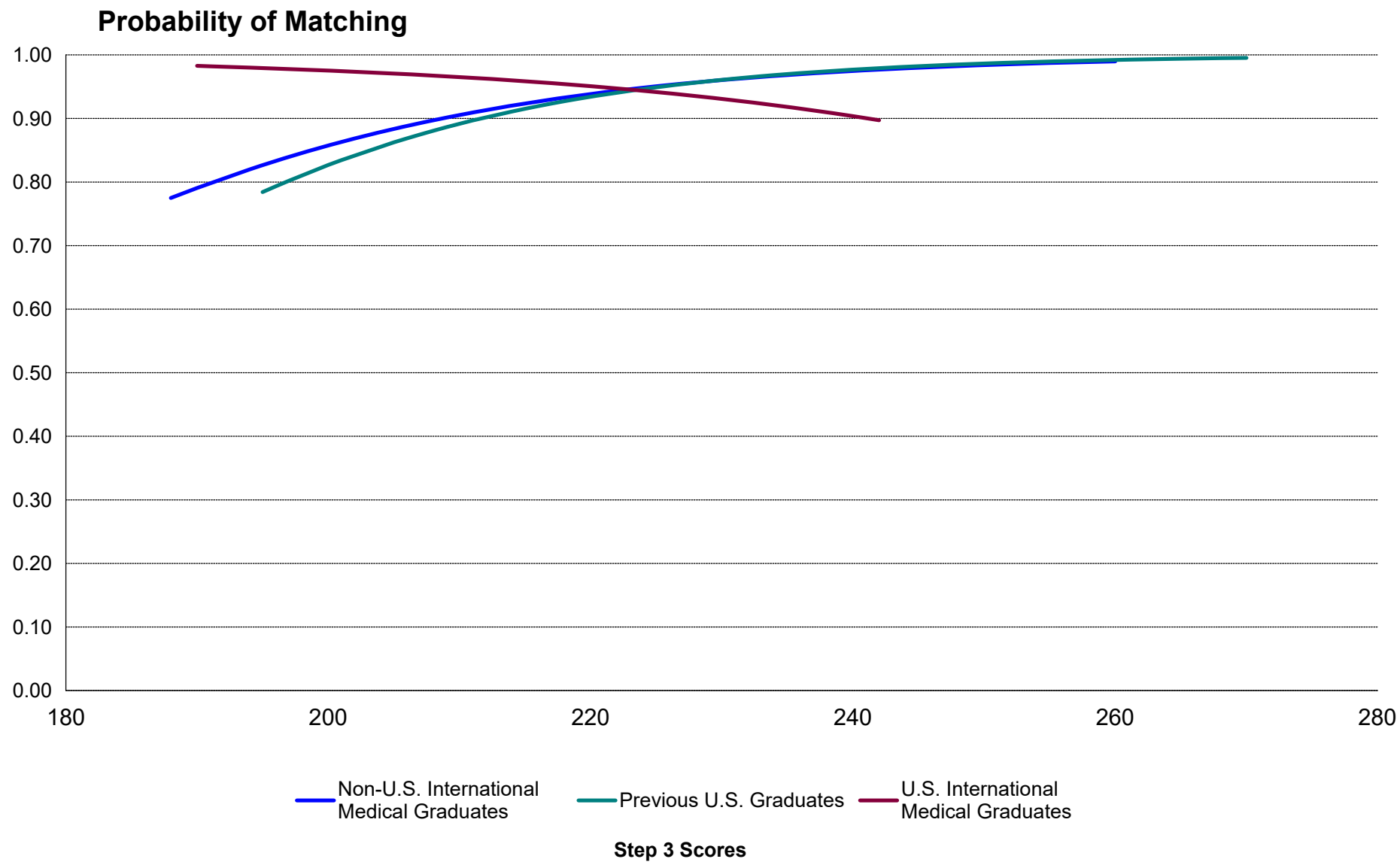
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Infectious Disease



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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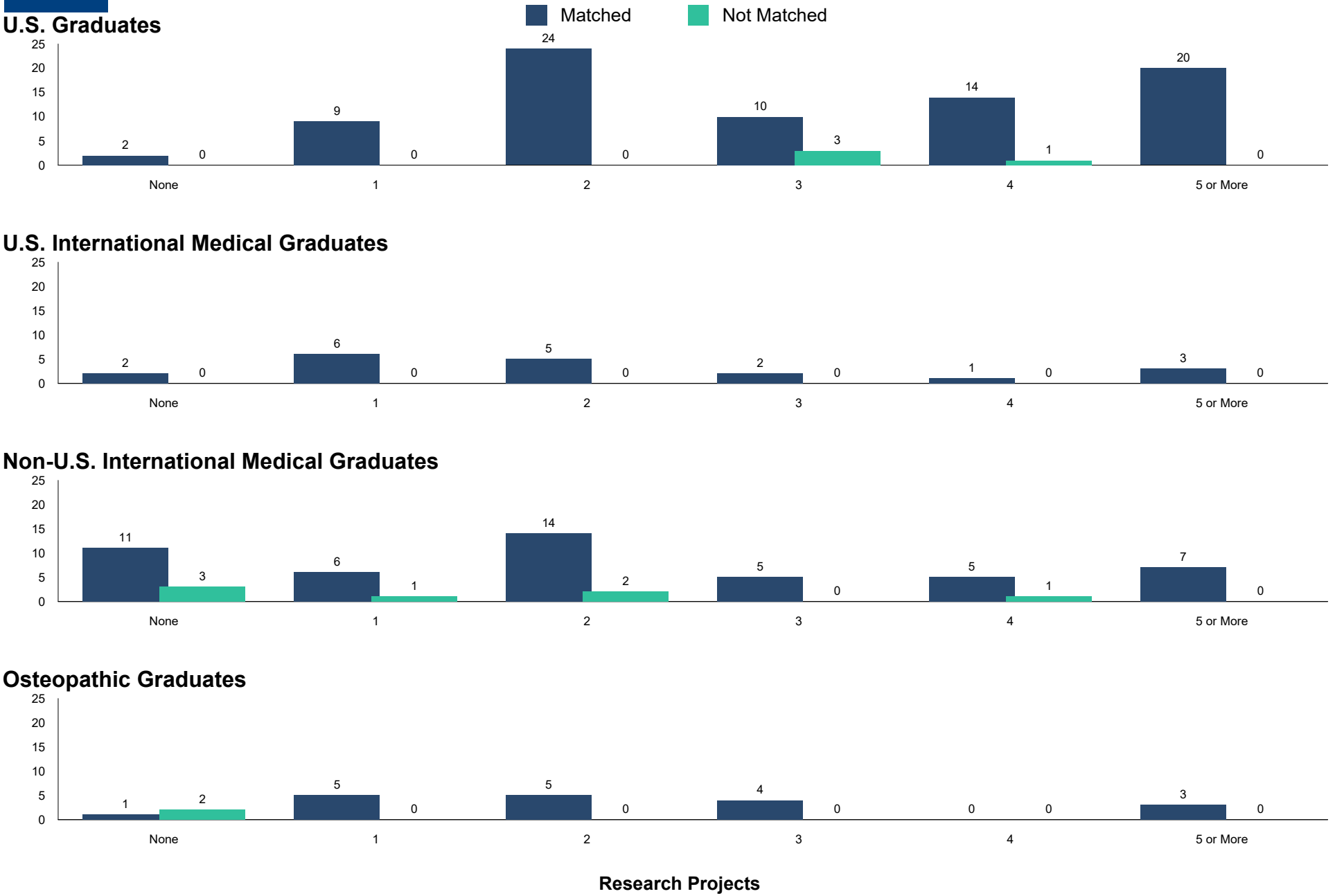
Chart-6 Number of Research Projects
Infectious Disease



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Infectious Disease

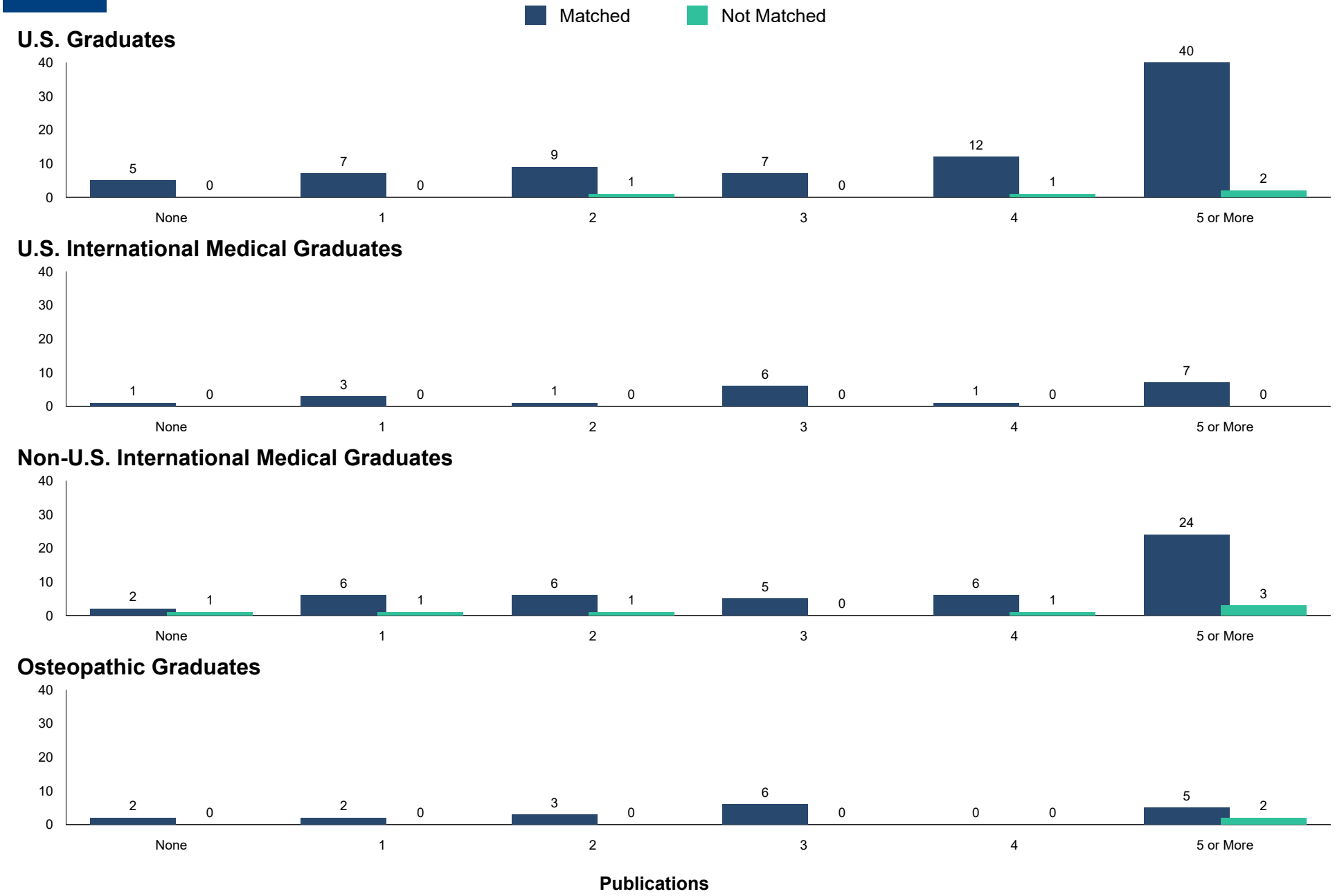

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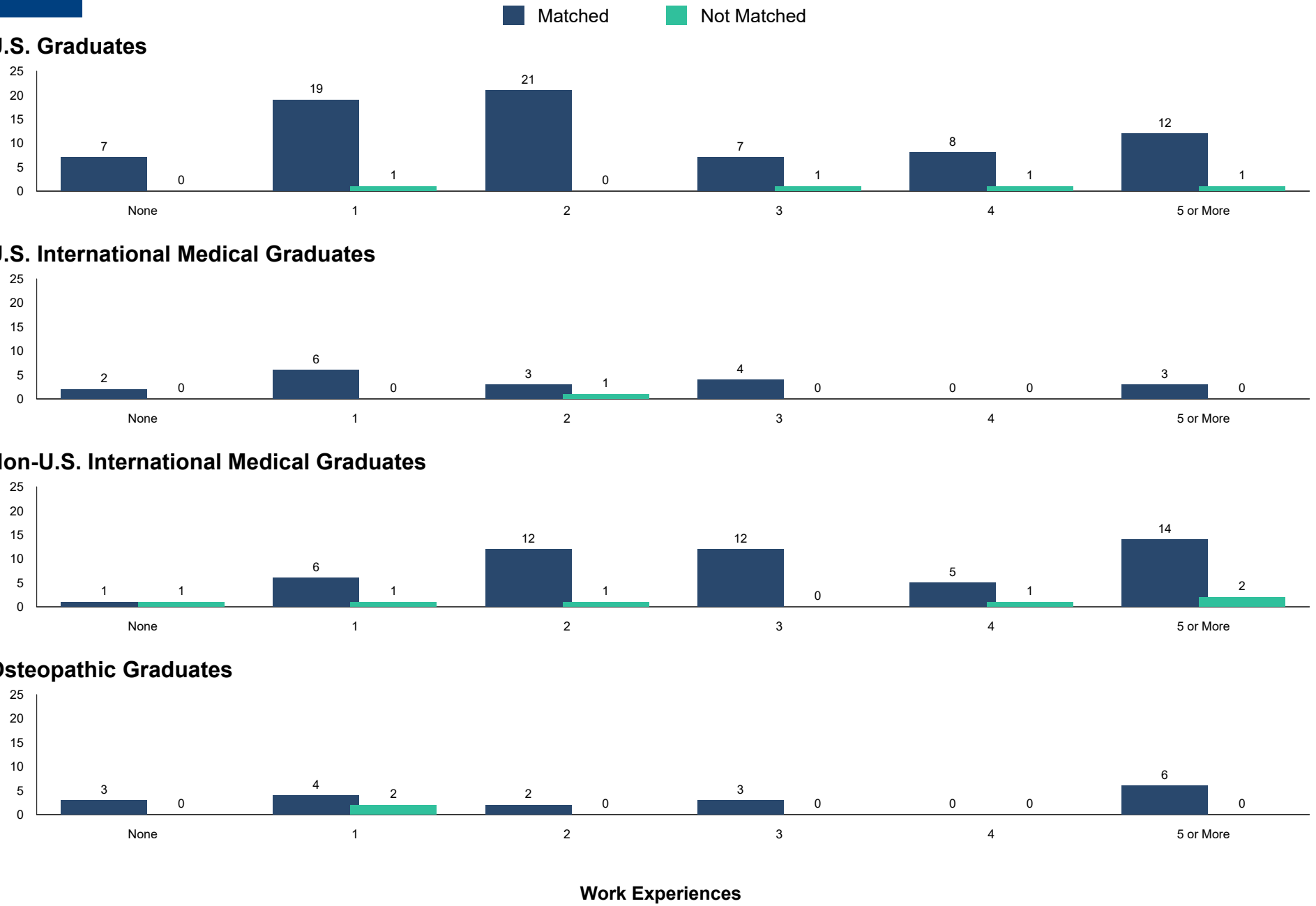
Chart-8 Number of Work Experiences

Infectious Disease



Source: NRMP Data Warehouse

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Chart-9 Number of Volunteer Experiences

Infectious Disease

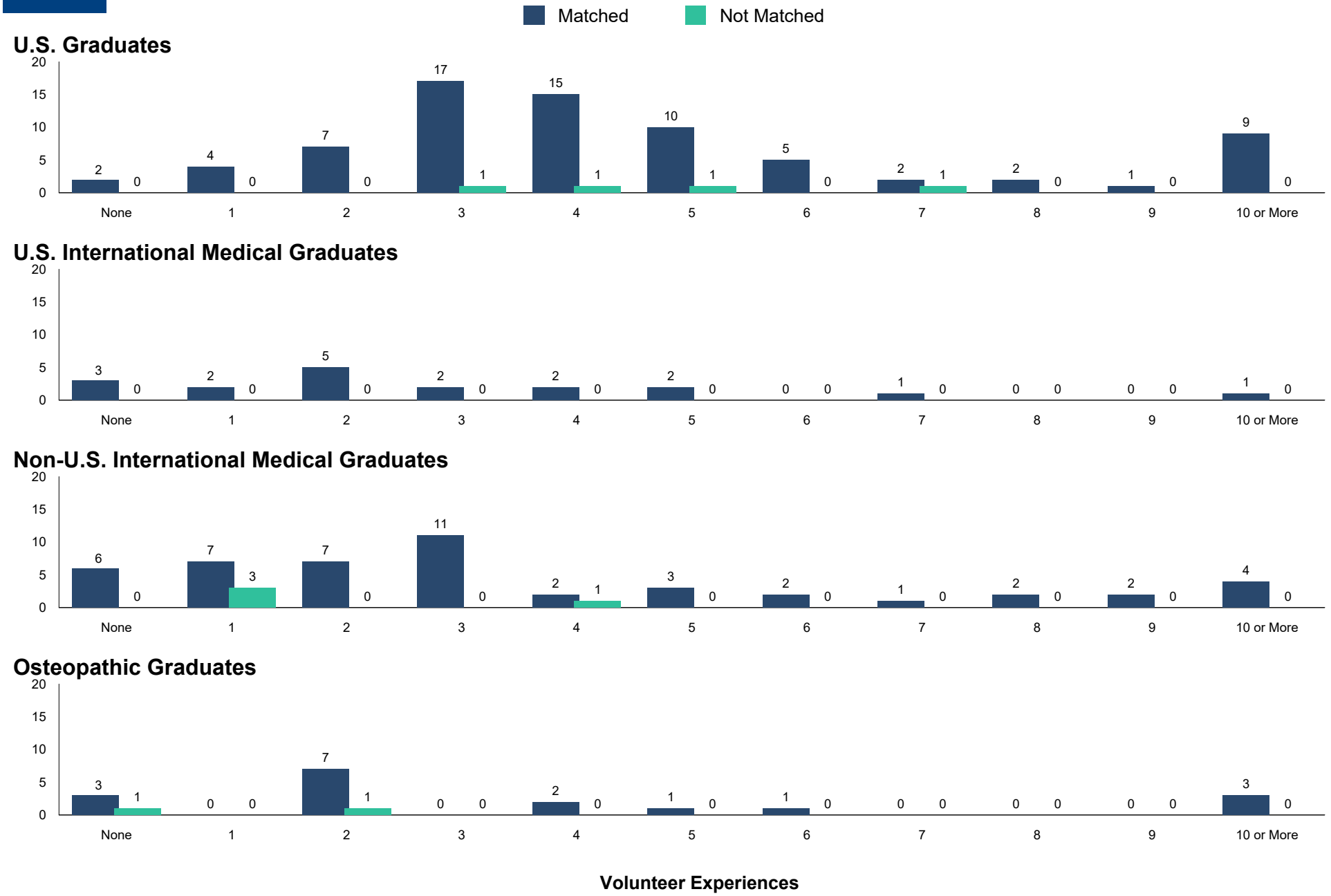

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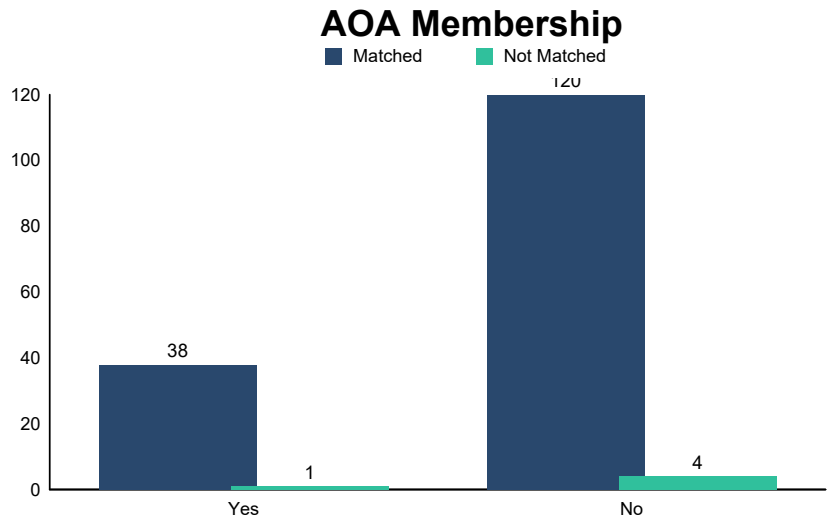
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Infectious Disease



Source: NRMP Data Warehouse

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Interventional Radiology

Table-1 Summary Statistics
Interventional Radiology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=180)	Unmatched (n=13)	Matched (n=21)	Unmatched (n=4)	Matched (n=12)	Unmatched (n=2)	Matched (n=15)	Unmatched (n=1)
1.	Mean number of contiguous ranks	9.1	4.7	9.7	5.3	8.1	4.0	9.3	6.0
2.	Mean number of distinct specialties ranked	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	238	243	243	234	238	216	n/a	n/a
4.	Mean USMLE Step 2 score	246	246	243	233	242	229	n/a	n/a
5.	Mean USMLE Step 3 score	225	230	219	211	214	211	n/a	n/a
6.	Mean number of research experiences	4.6	2.4	5.8	3.7	4.8	1.0	2.8	n/a
7.	Mean number of abstracts, presentations, and publications	10.0	3.6	8.3	5.0	18.3	1.0	7.0	n/a
8.	Mean number of work experiences	2.9	2.4	4.6	2.7	3.8	3.0	3.6	n/a
9.	Mean number of volunteer experiences	3.7	3.2	3.5	2.0	2.4	2.0	4.6	n/a
10.	Percentage who are AOA members	14.4	7.7	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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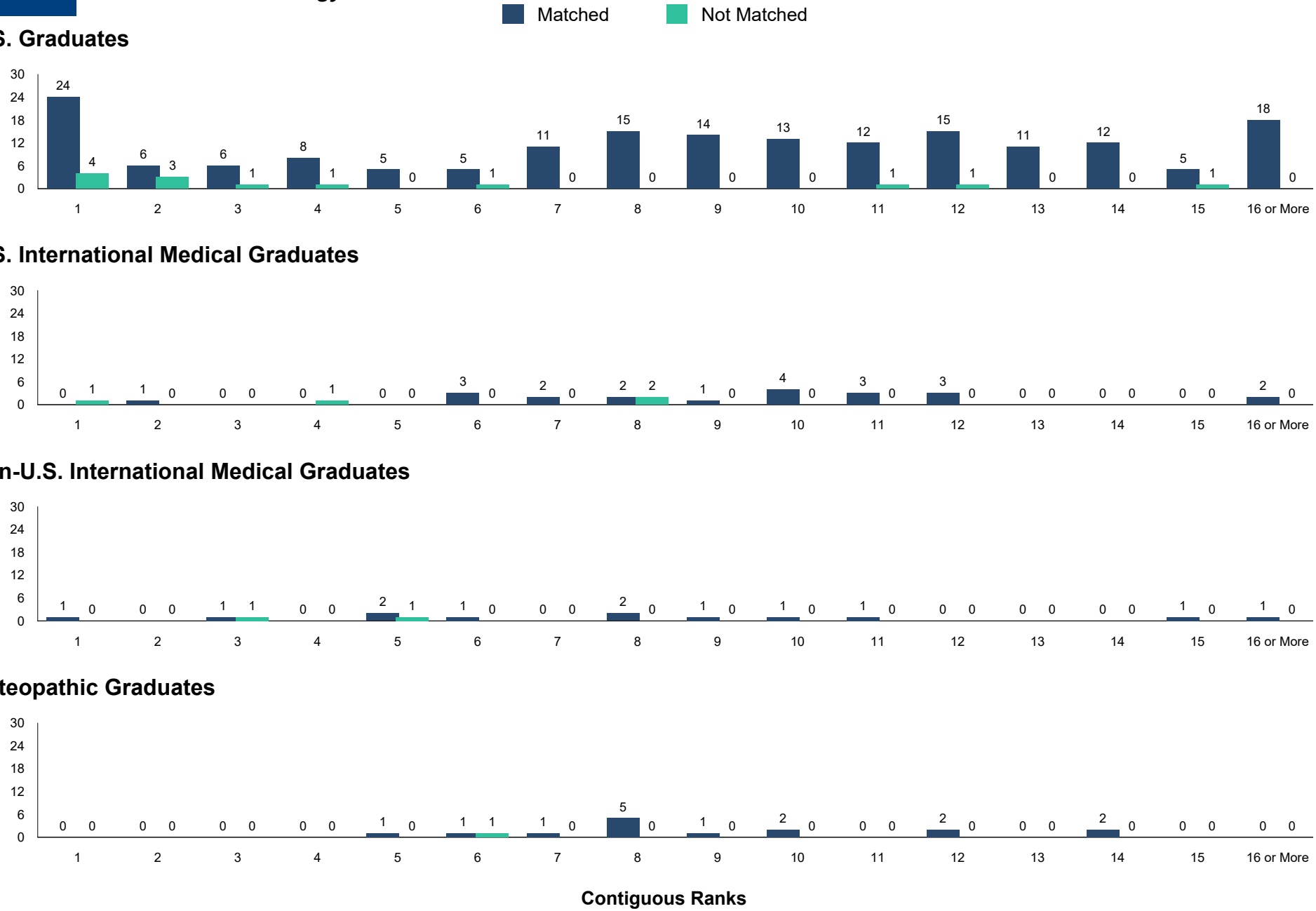
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Interventional Radiology



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Interventional Radiology

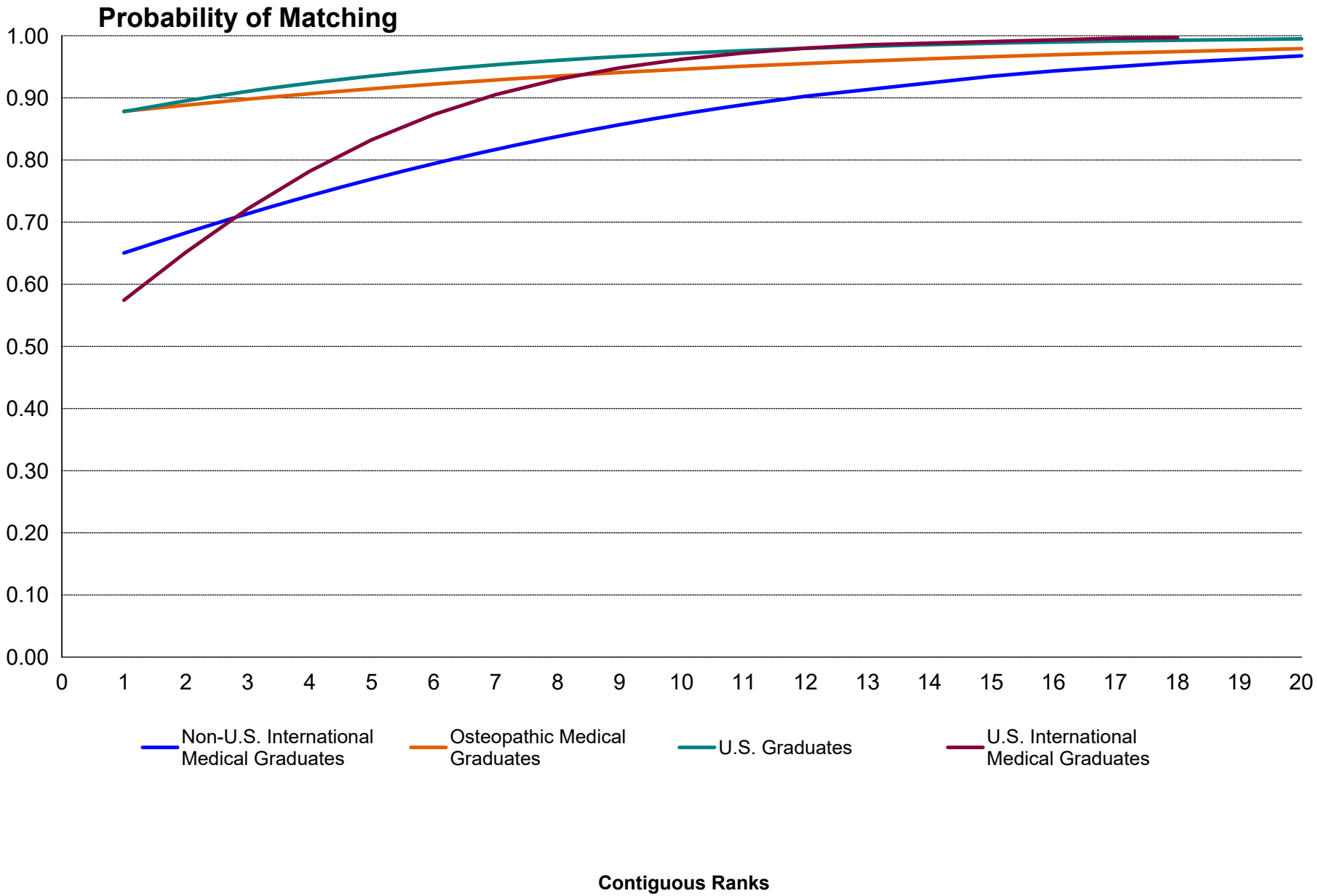

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Chart-2 Number of Distinct Specialties Ranked

Interventional Radiology

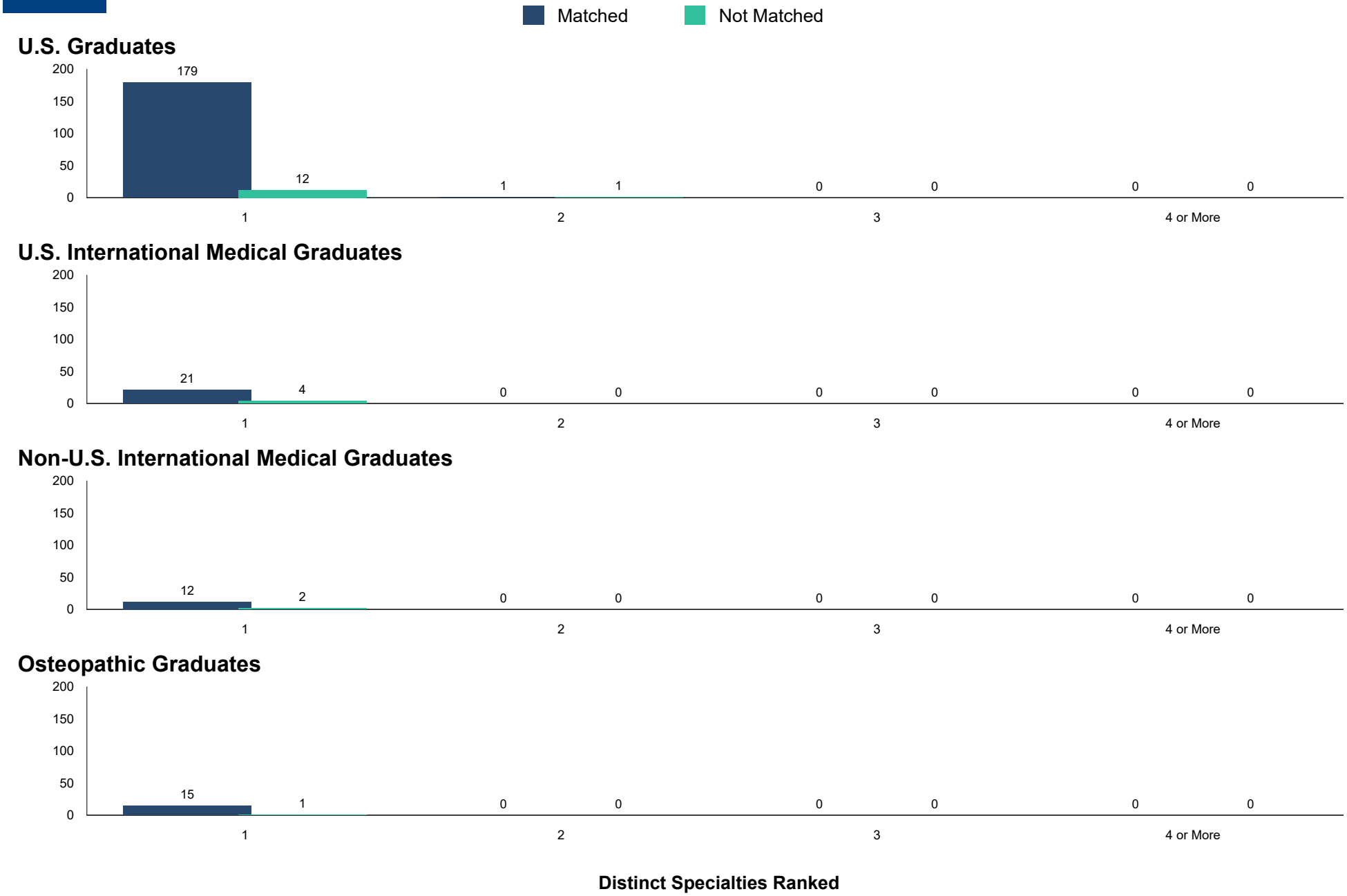

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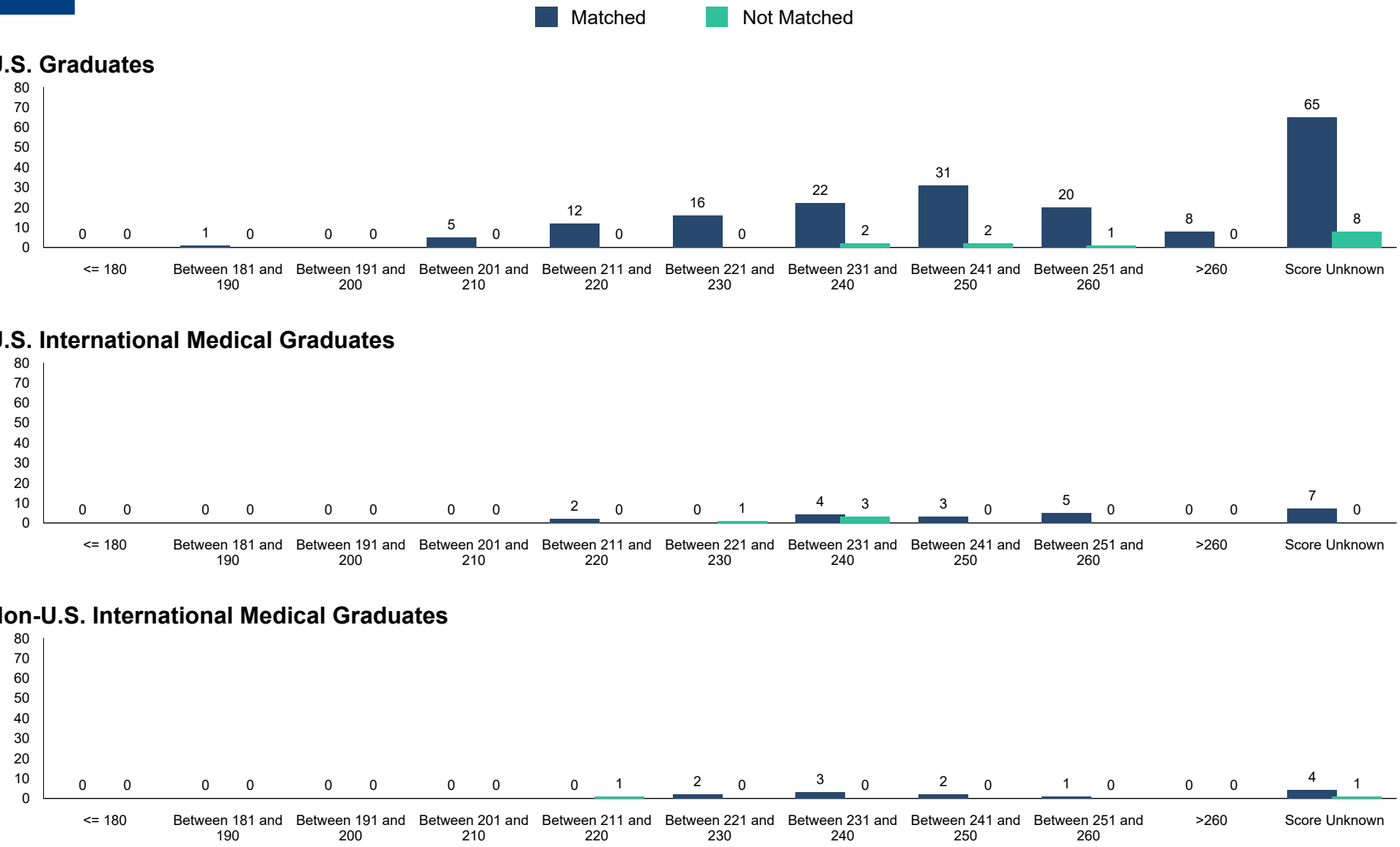
Chart-3 USMLE Step 1 Scores
Interventional Radiology



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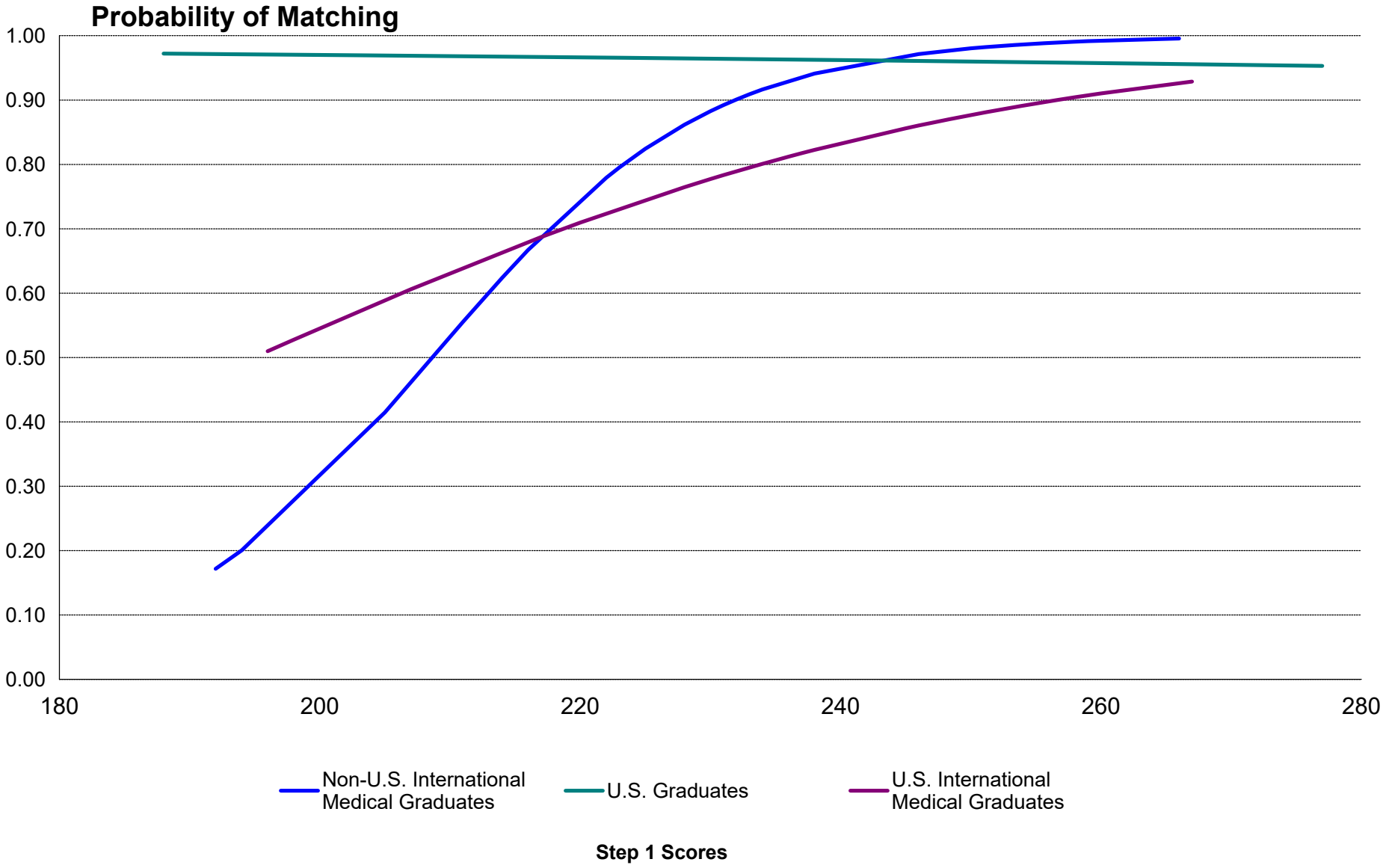
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Interventional Radiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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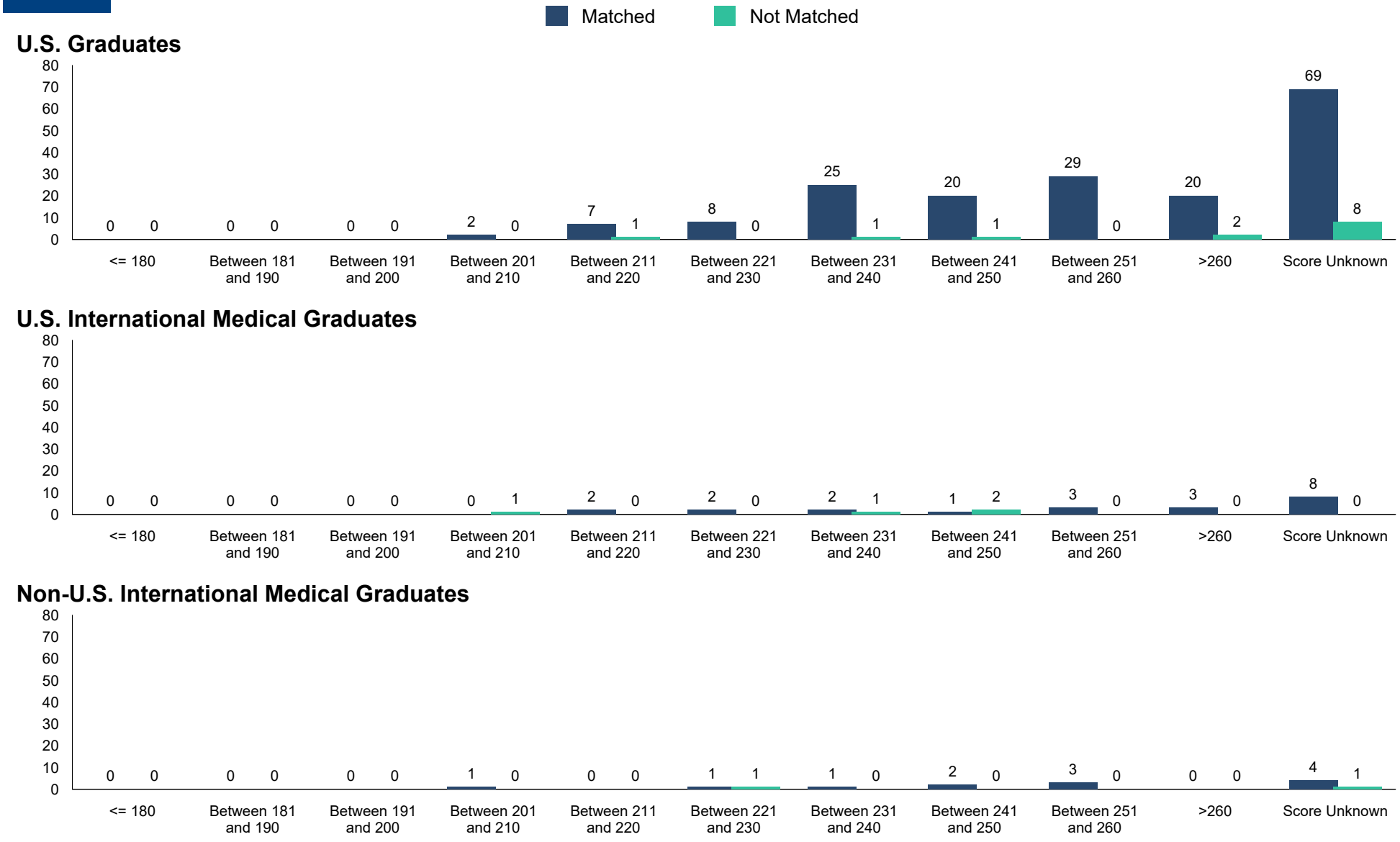
Chart-4 USMLE Step 2 Scores
Interventional Radiology



Step 2 Scores

Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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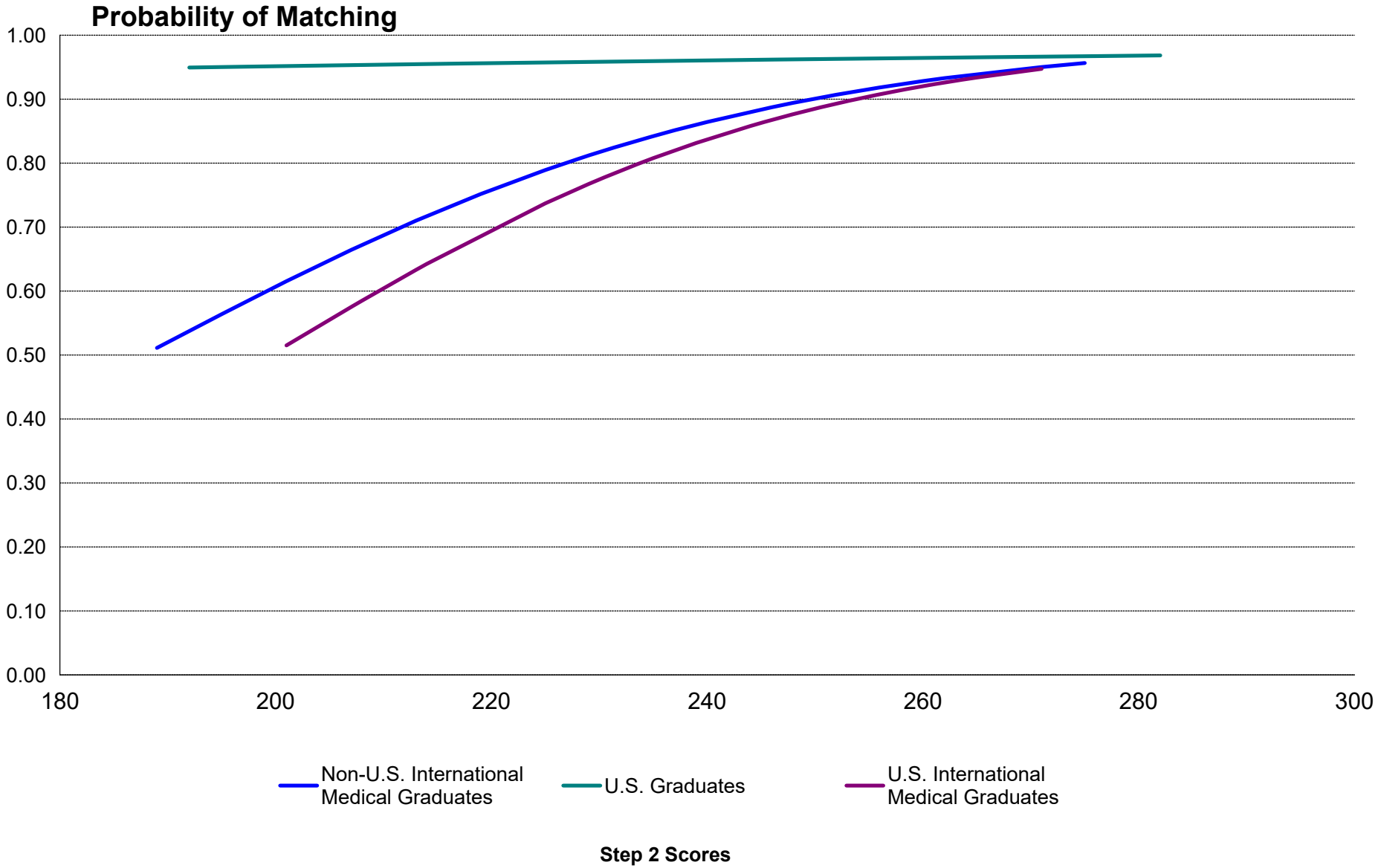
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Interventional Radiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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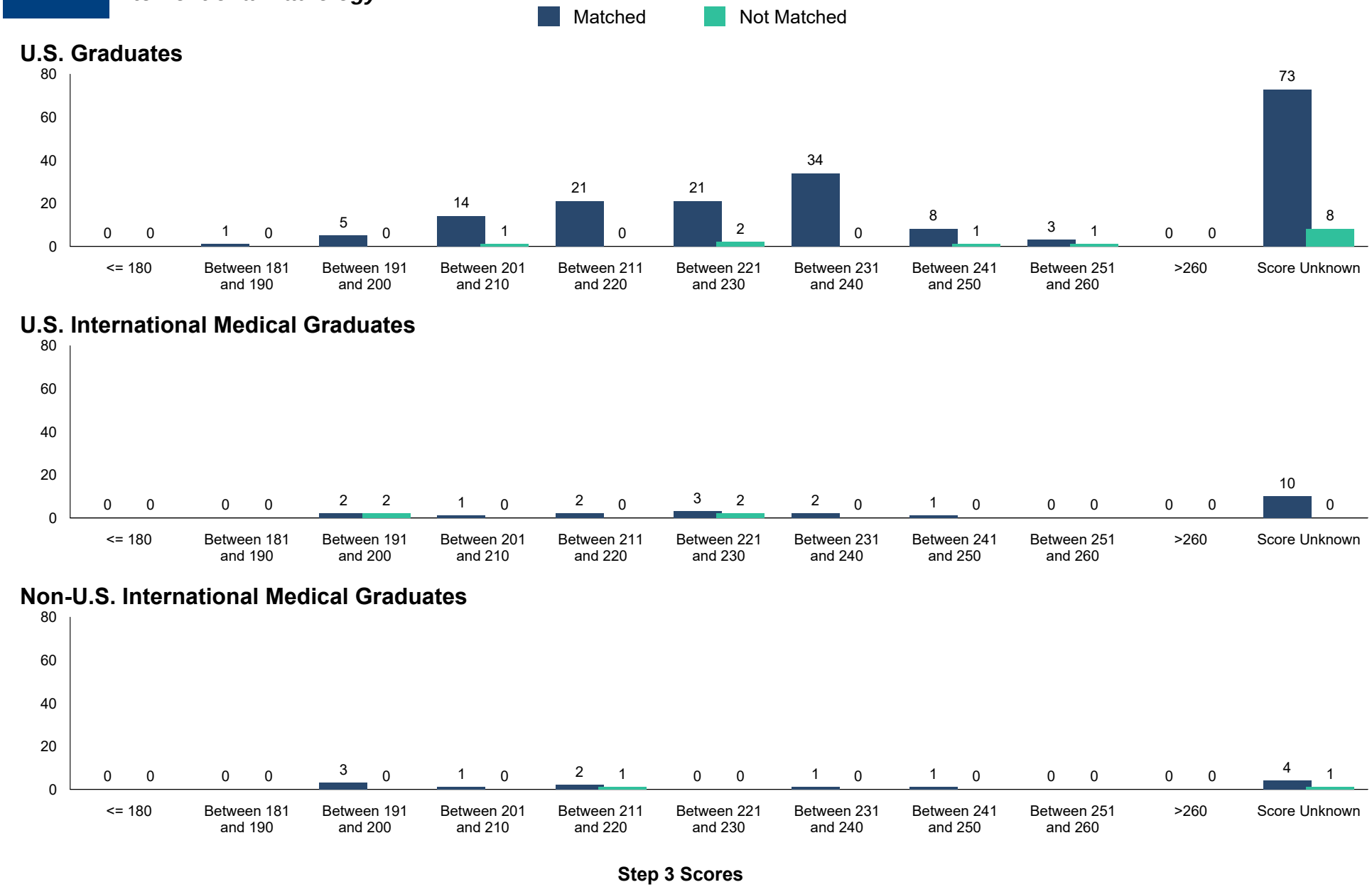
Chart-5 USMLE Step 3 Scores
Interventional Radiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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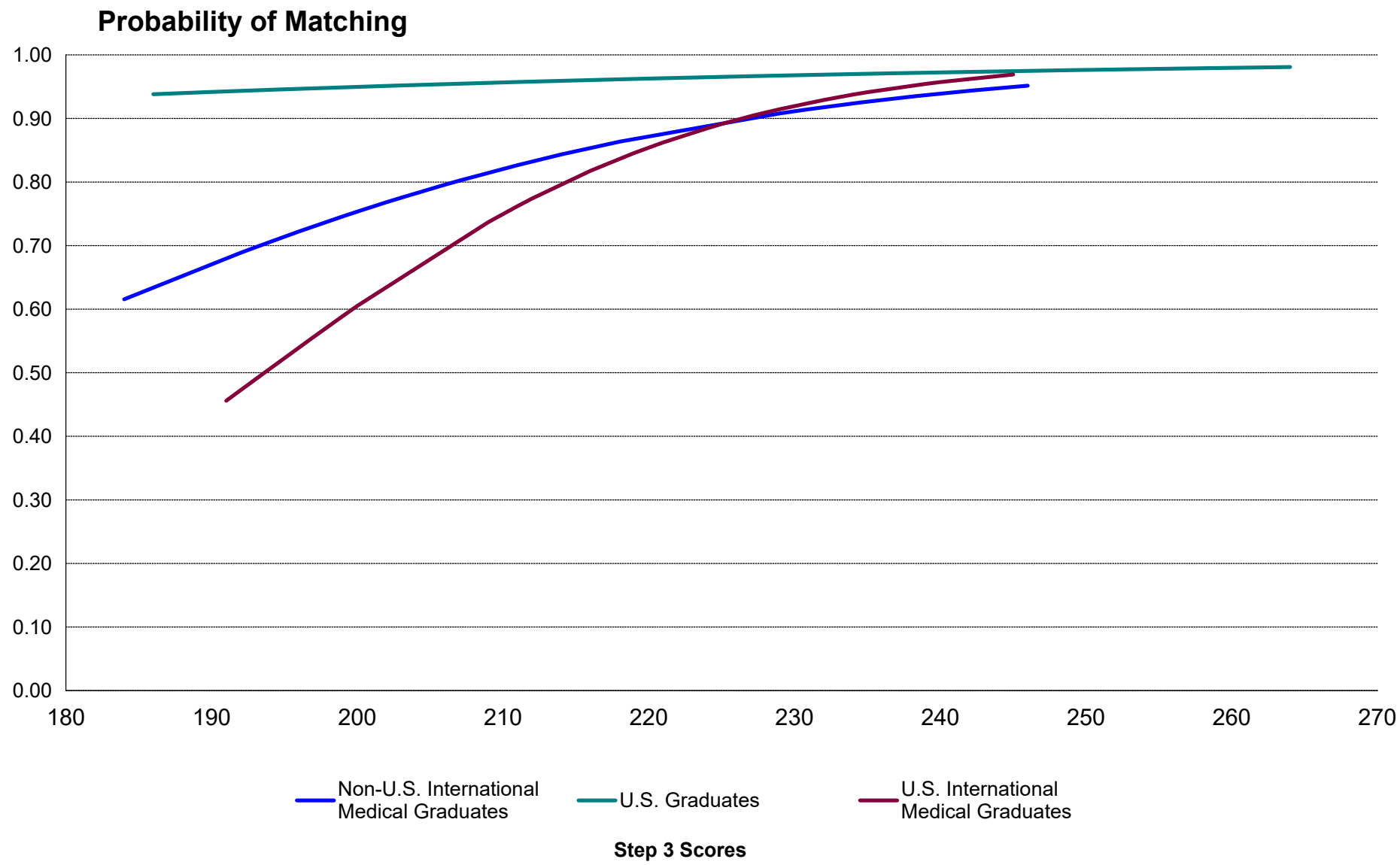
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Interventional Radiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Interventional Radiology

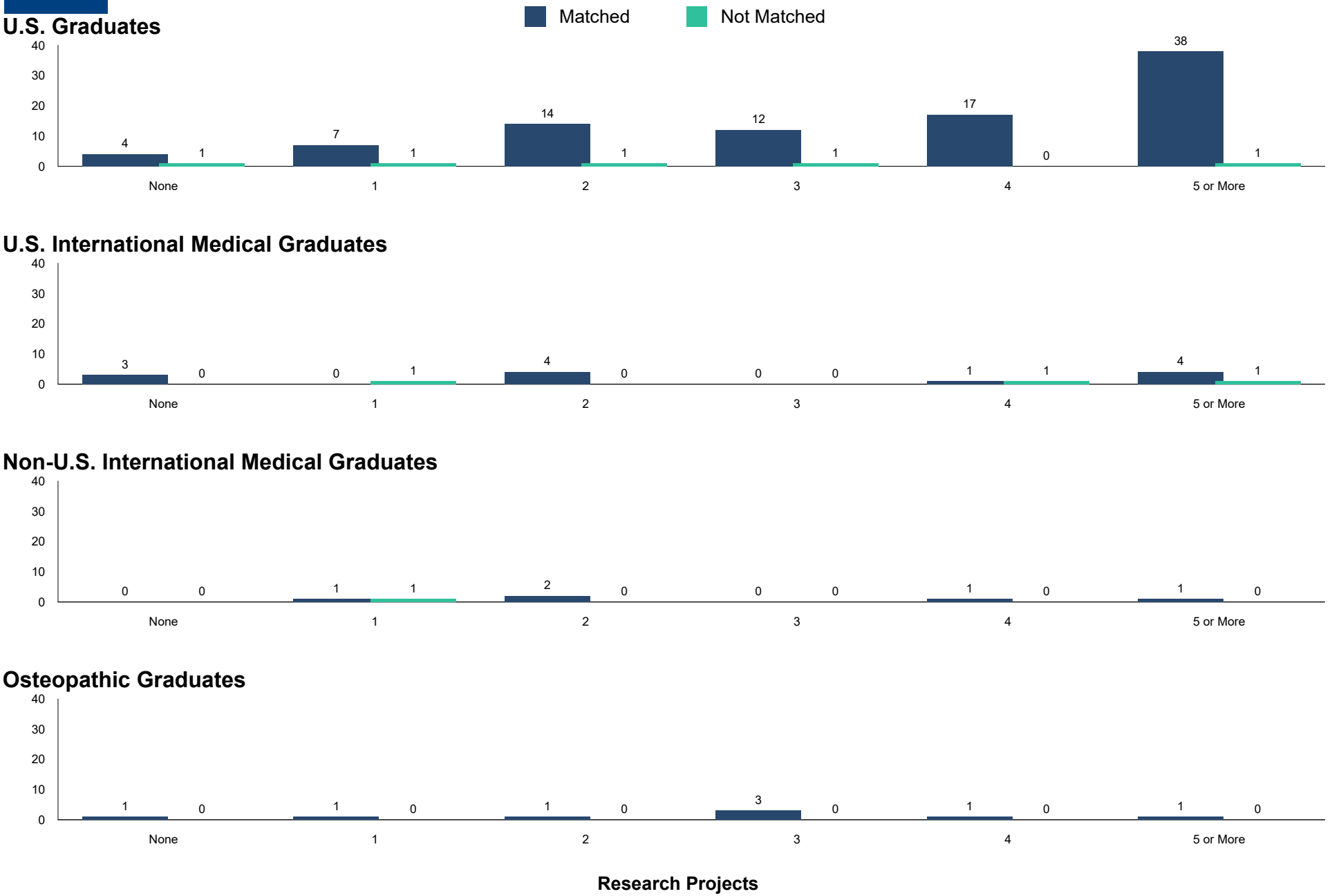

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Chart-7 Number of Abstracts, Presentations, and Publications

Interventional Radiology

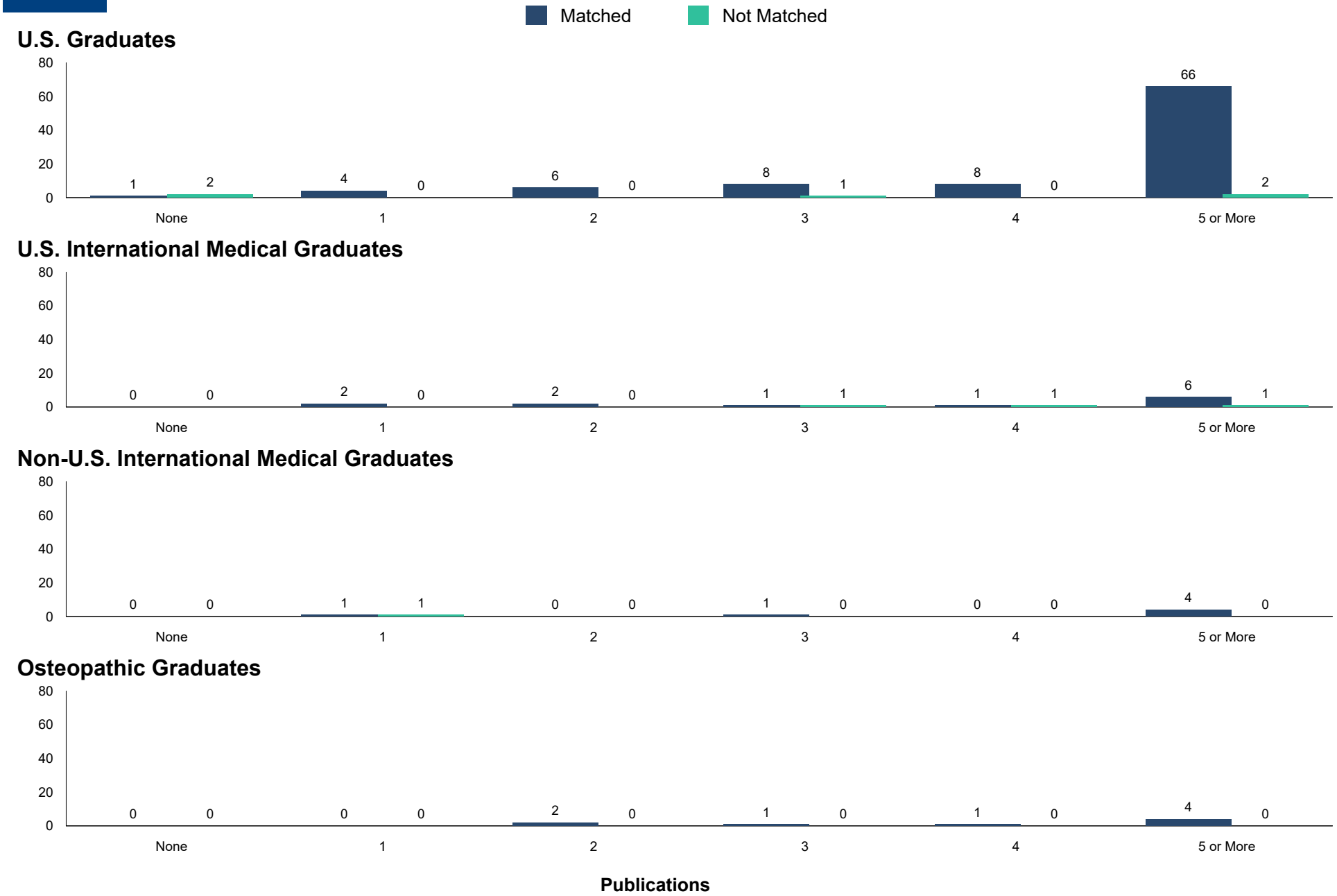

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Chart-8 Number of Work Experiences

Interventional Radiology

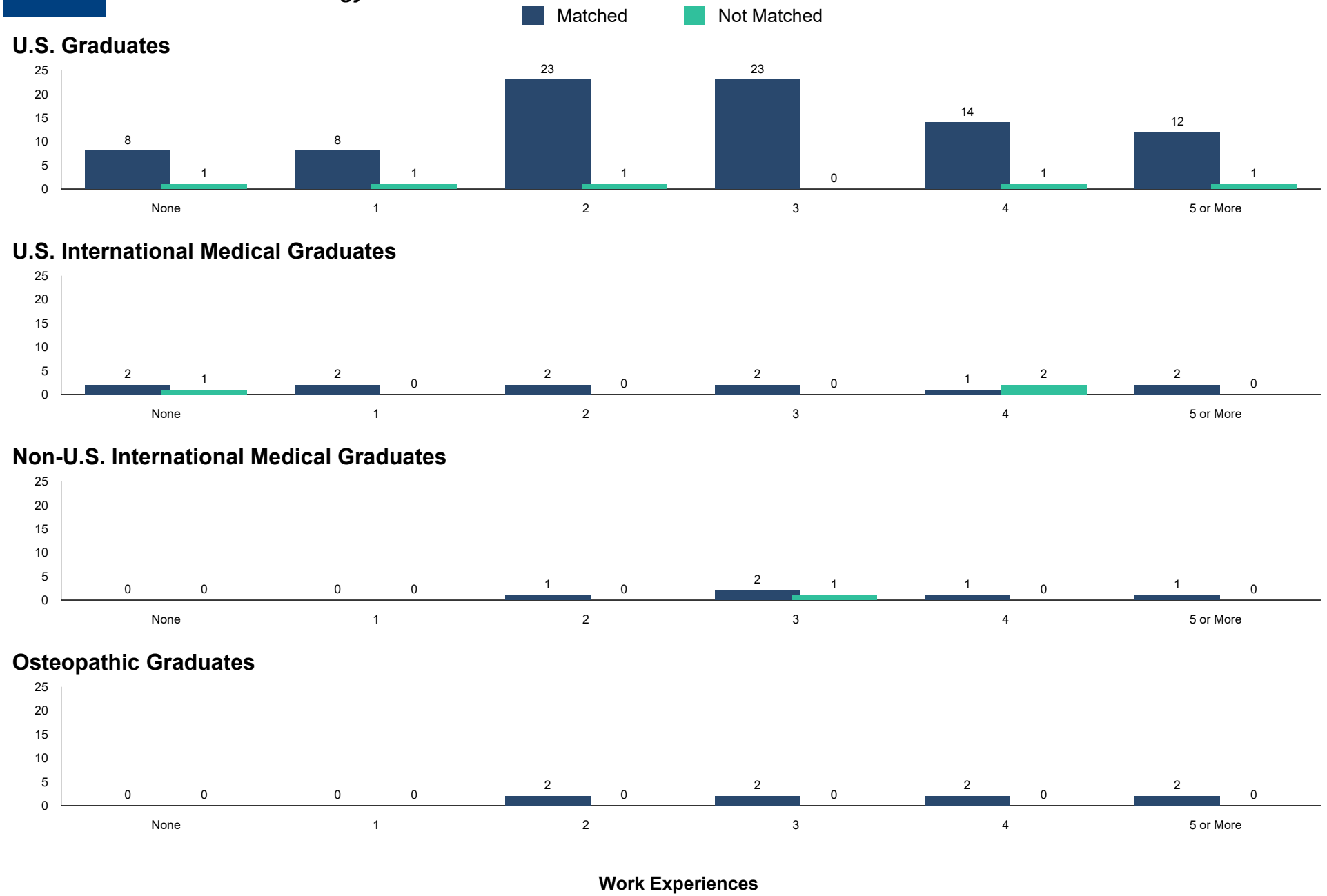

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Chart-9 Number of Volunteer Experiences

Interventional Radiology

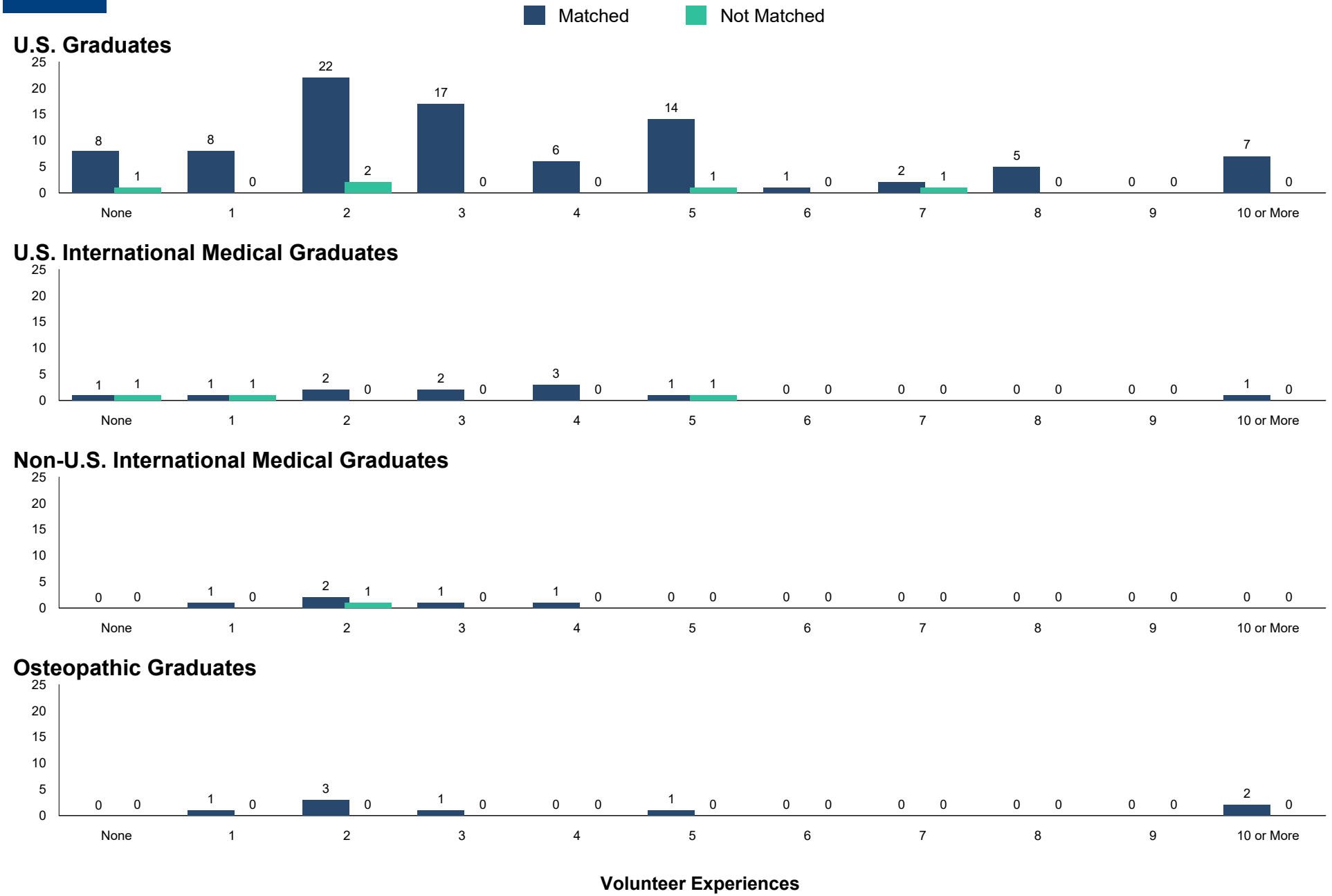

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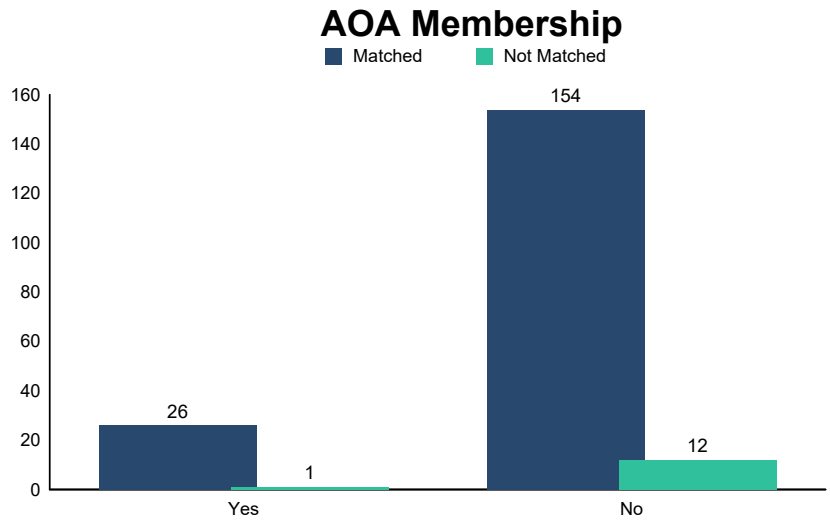
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Interventional Radiology



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Maternal-Fetal Medicine

Table-1 Summary Statistics
Maternal-Fetal Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=86)	Unmatched (n=13)	Matched (n=3)	Unmatched (n=8)	Matched (n=10)	Unmatched (n=2)	Matched (n=8)	Unmatched (n=2)
1.	Mean number of contiguous ranks	5.4	3.3	n/a	2.5	8.2	1.0	4.3	1.0
2.	Mean number of distinct specialties ranked	1.7	1.5	n/a	1.8	1.5	1.5	1.6	1.0
3.	Mean USMLE Step 1 score	231	222	n/a	217	238	238	n/a	n/a
4.	Mean USMLE Step 2 score	247	230	n/a	217	254	240	n/a	n/a
5.	Mean USMLE Step 3 score	227	214	n/a	208	228	230	n/a	n/a
6.	Mean number of research experiences	5.4	3.5	n/a	4.5	2.3	n/a	3.5	2.0
7.	Mean number of abstracts, presentations, and publications	6.2	4.1	n/a	7.8	12.3	n/a	5.3	4.0
8.	Mean number of work experiences	3.9	1.9	n/a	4.5	4.1	n/a	3.8	3.0
9.	Mean number of volunteer experiences	6.4	4.6	n/a	5.8	3.0	n/a	9.0	n/a
10.	Percentage who are AOA members	20.9	7.7	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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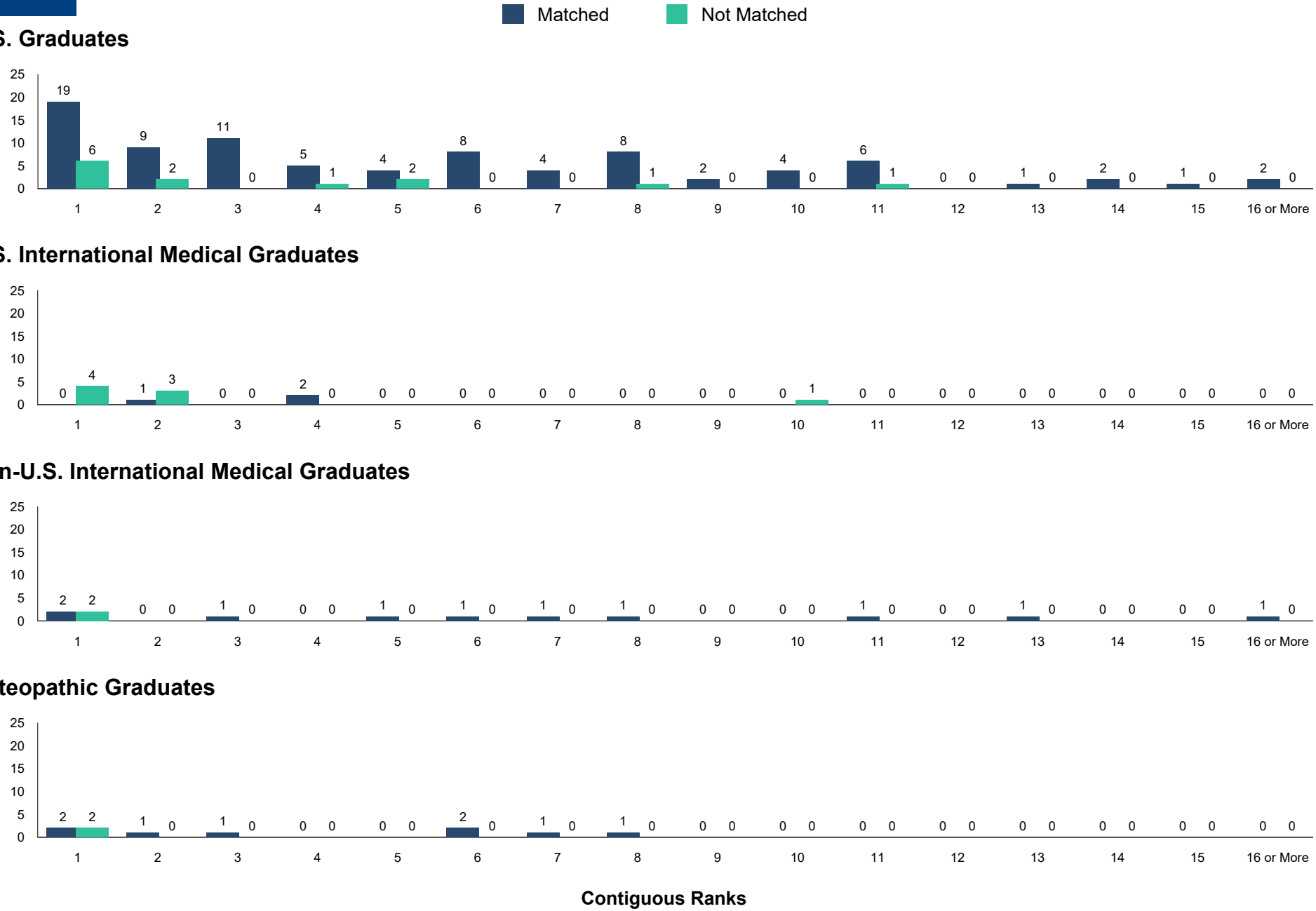
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Maternal-Fetal Medicine



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Maternal-Fetal Medicine

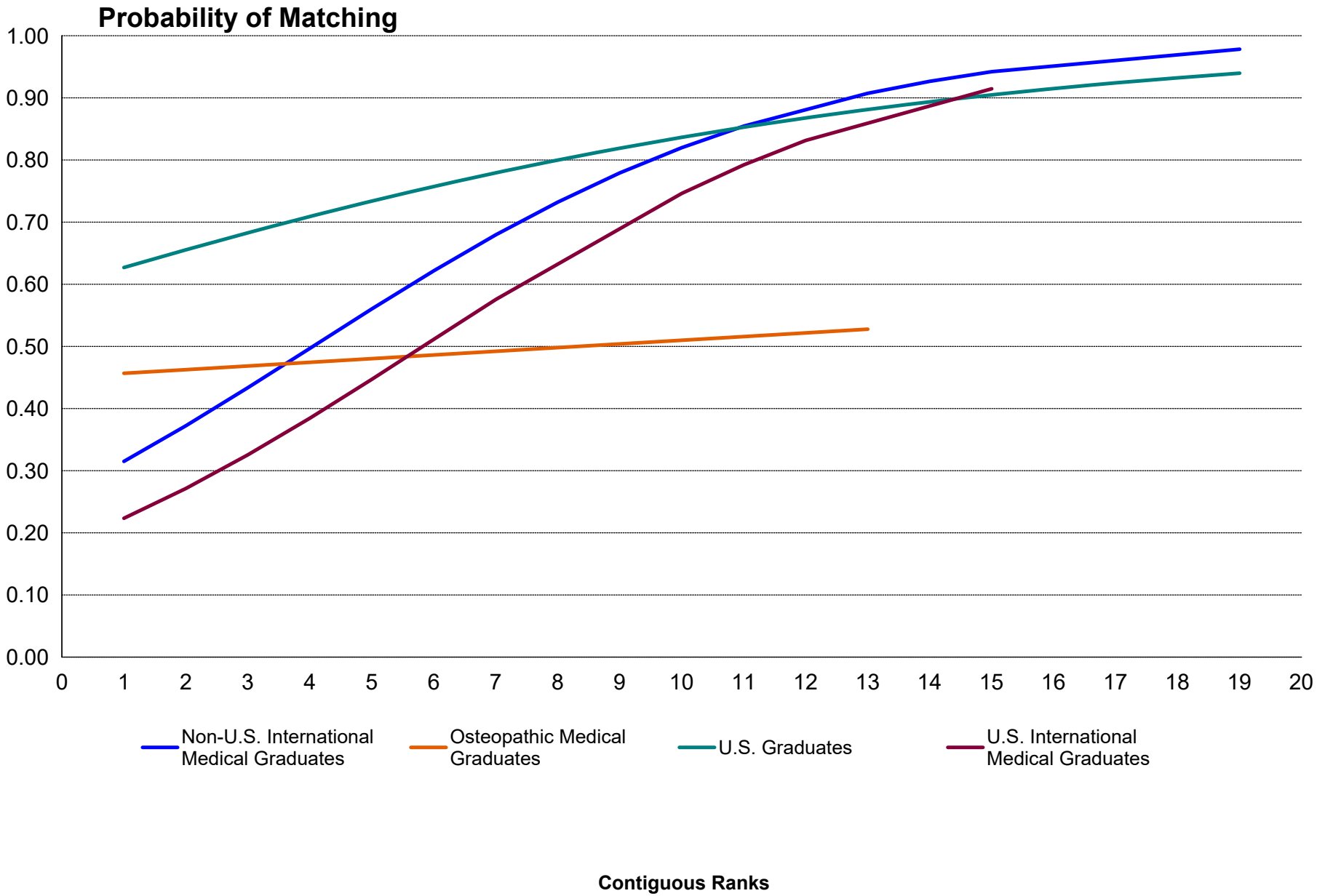

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Chart-2 Number of Distinct Specialties Ranked

Maternal-Fetal Medicine

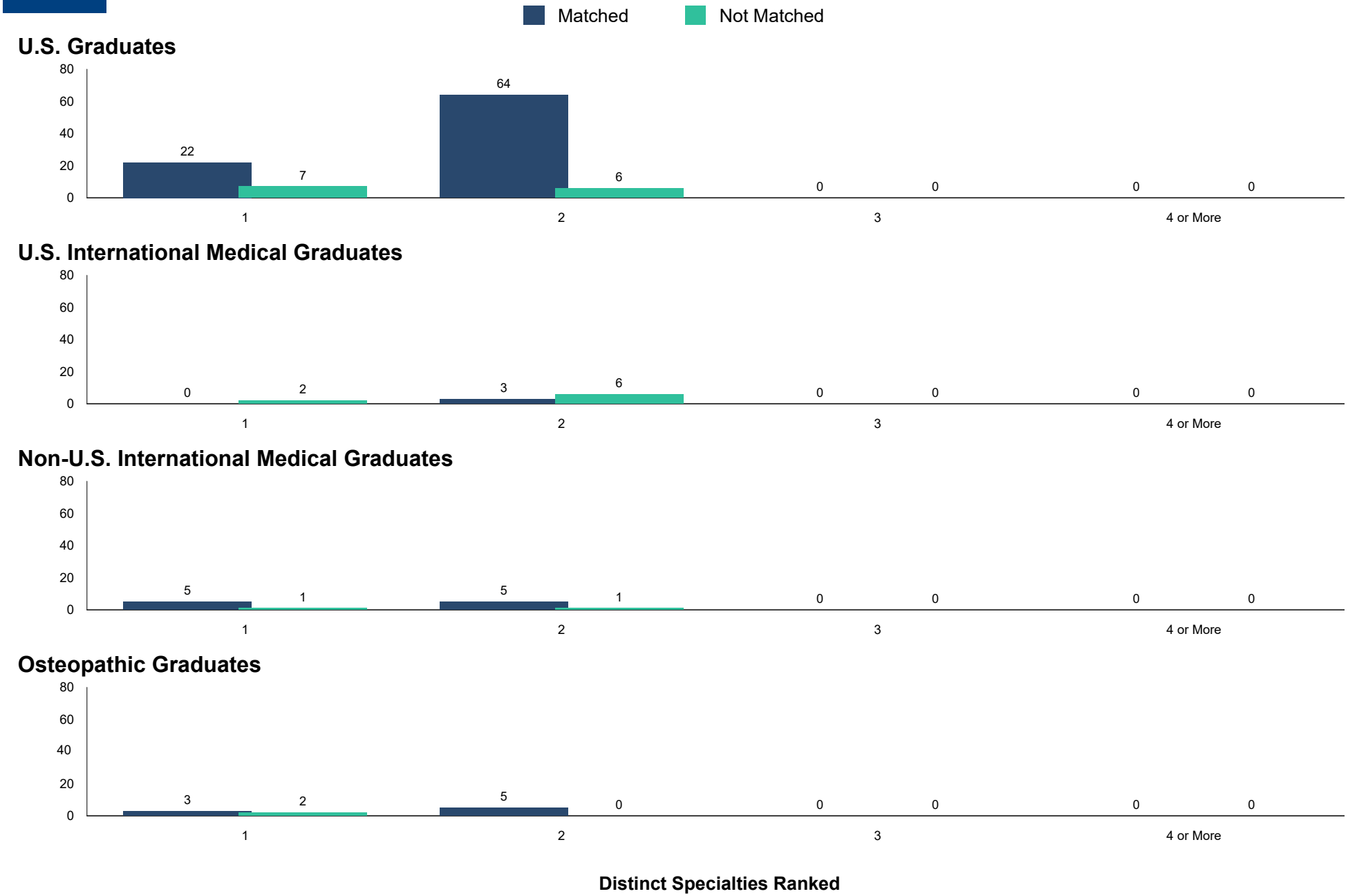

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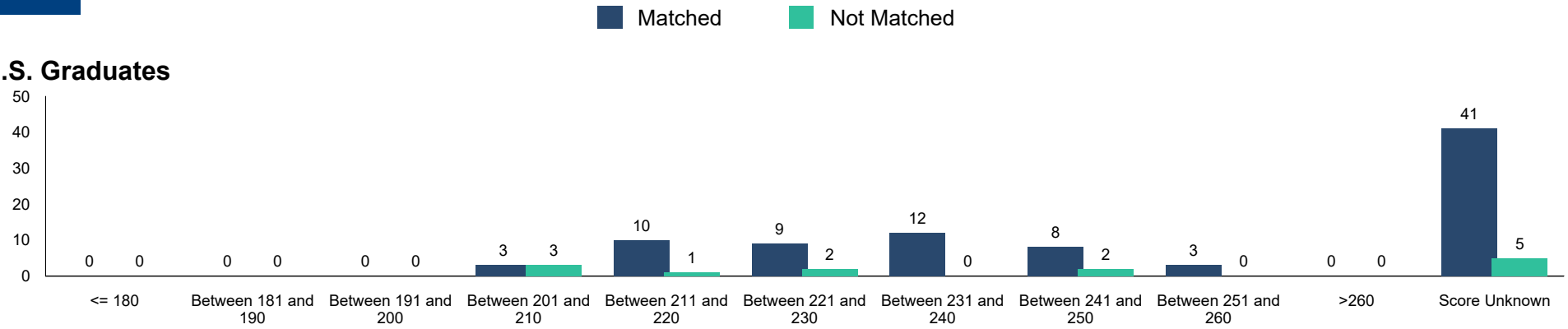
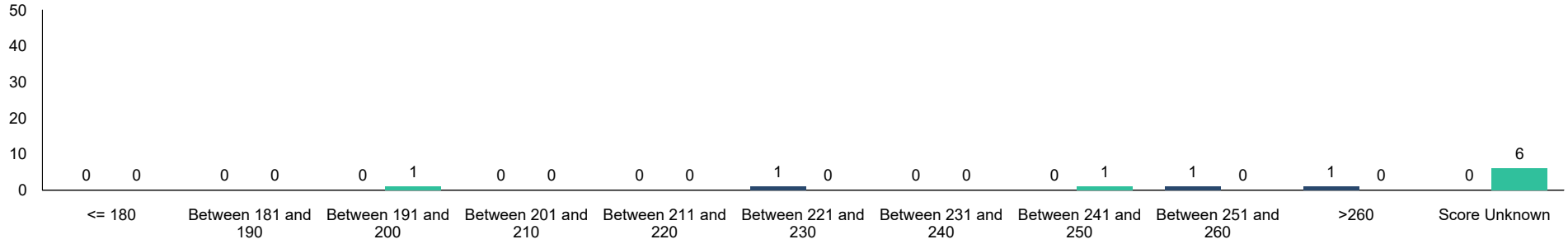
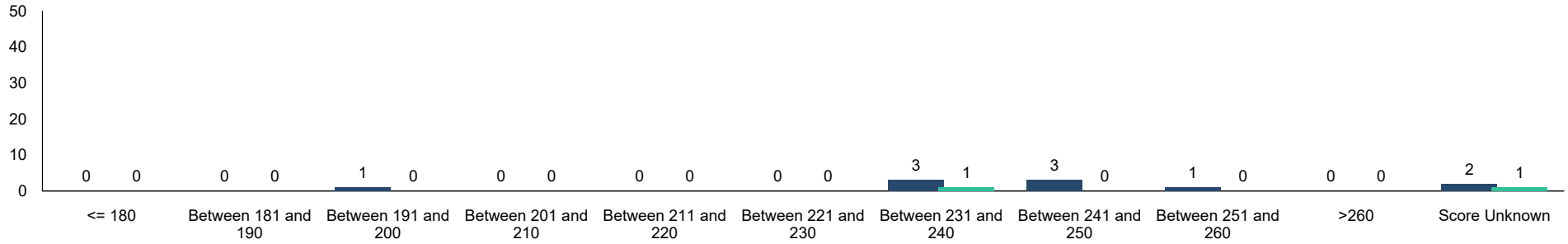
Chart-3 USMLE Step 1 Scores

Maternal-Fetal Medicine







Step 1 Scores

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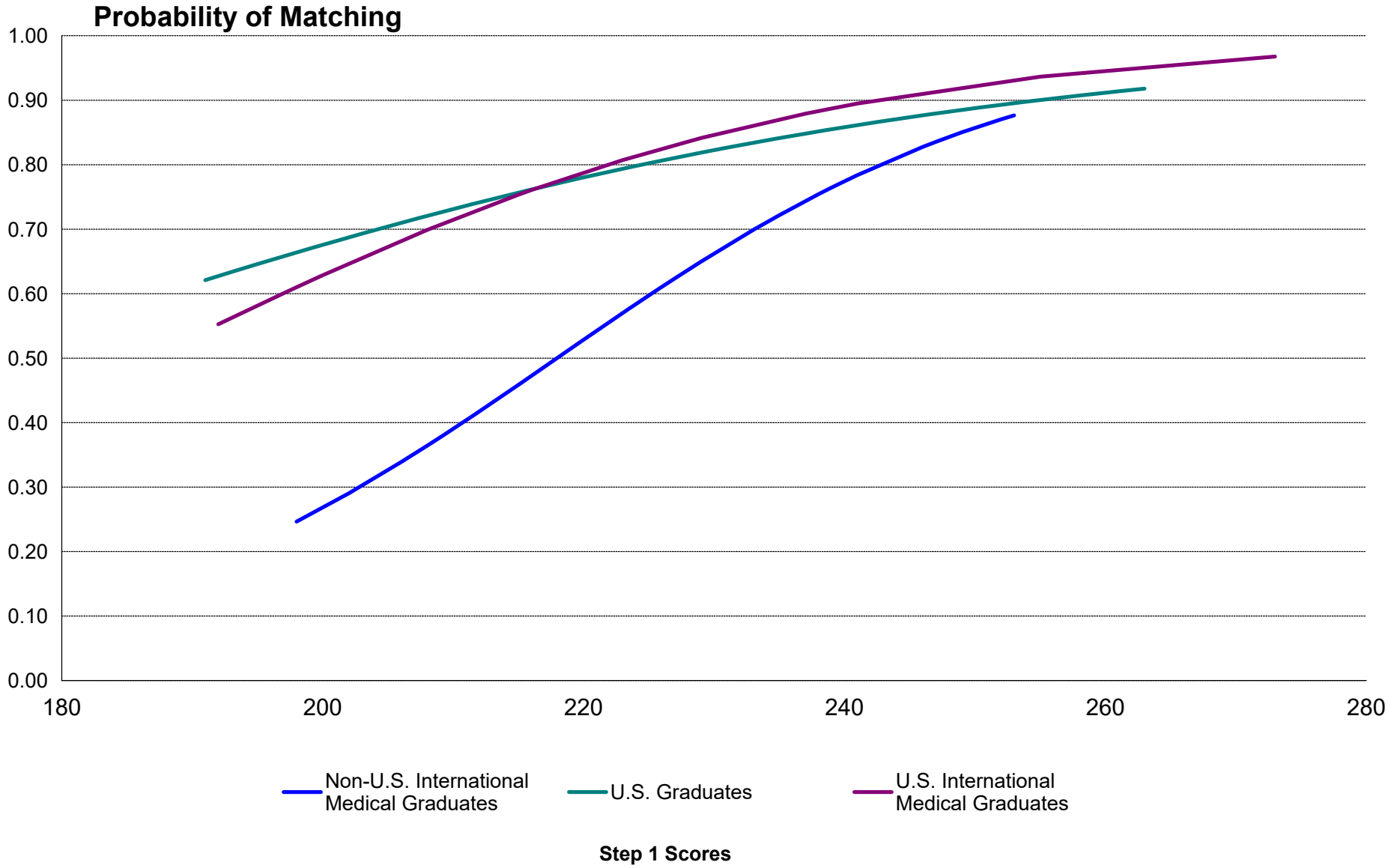
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Maternal-Fetal Medicine



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

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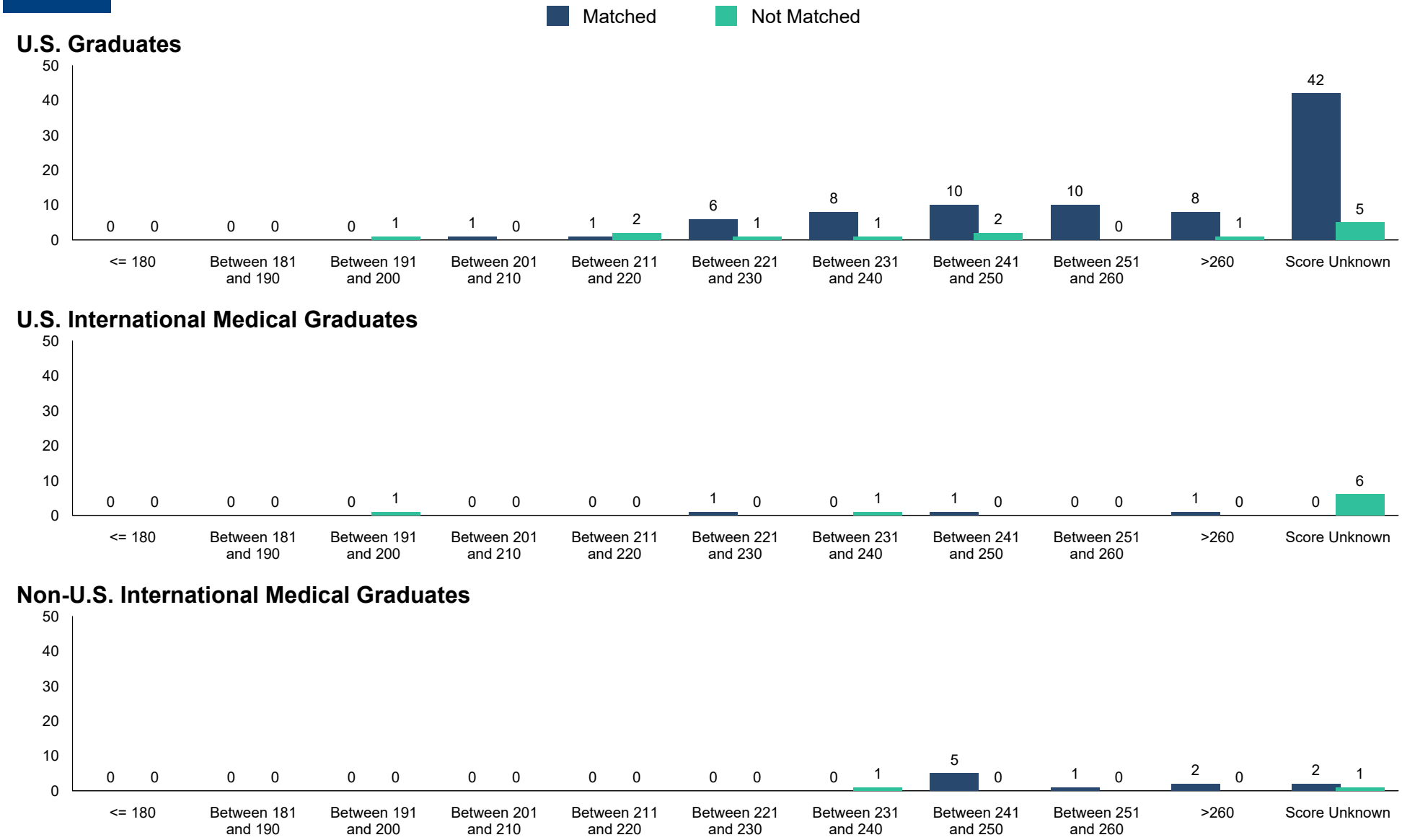
Chart-4 USMLE Step 2 Scores

Maternal-Fetal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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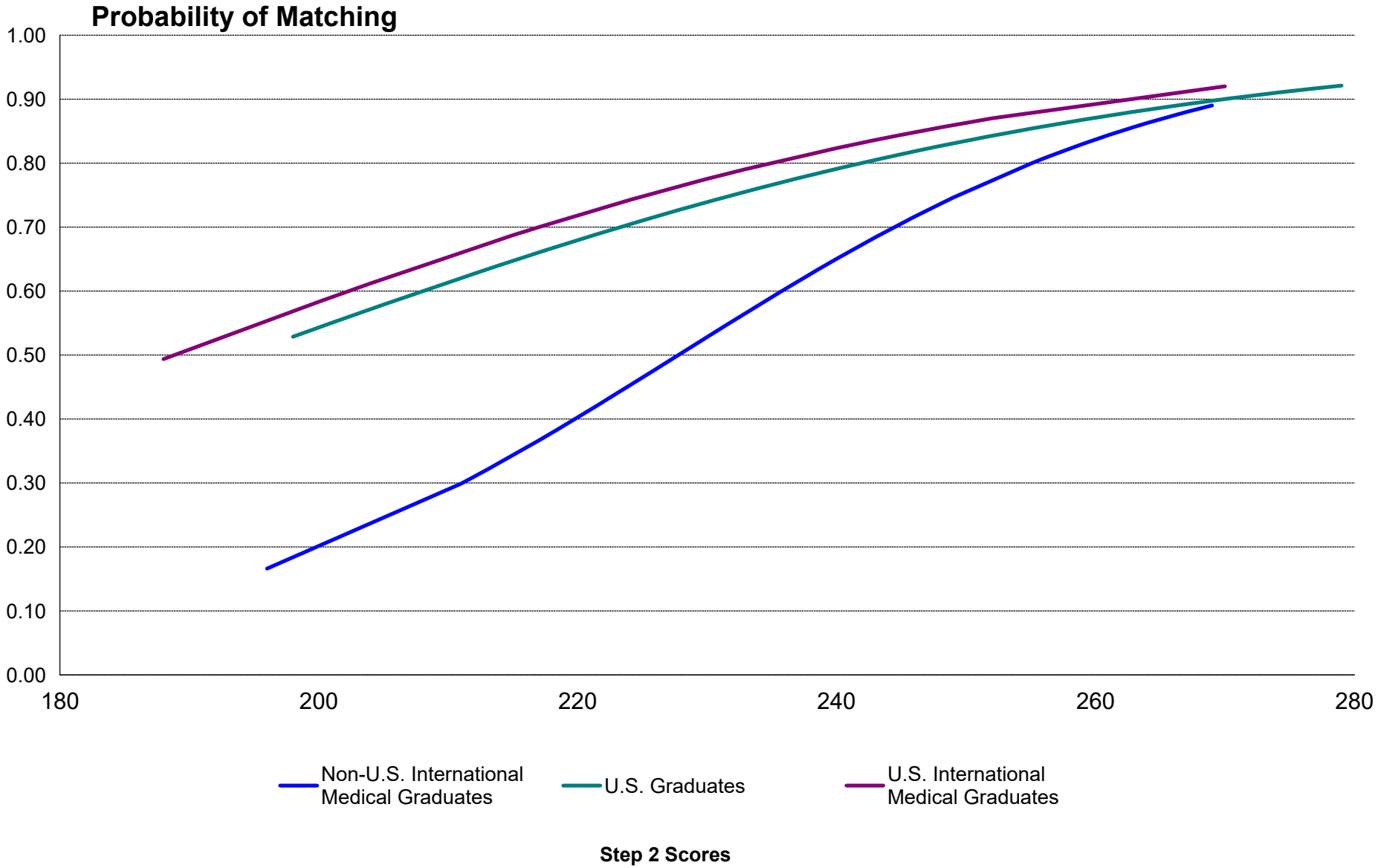
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Maternal-Fetal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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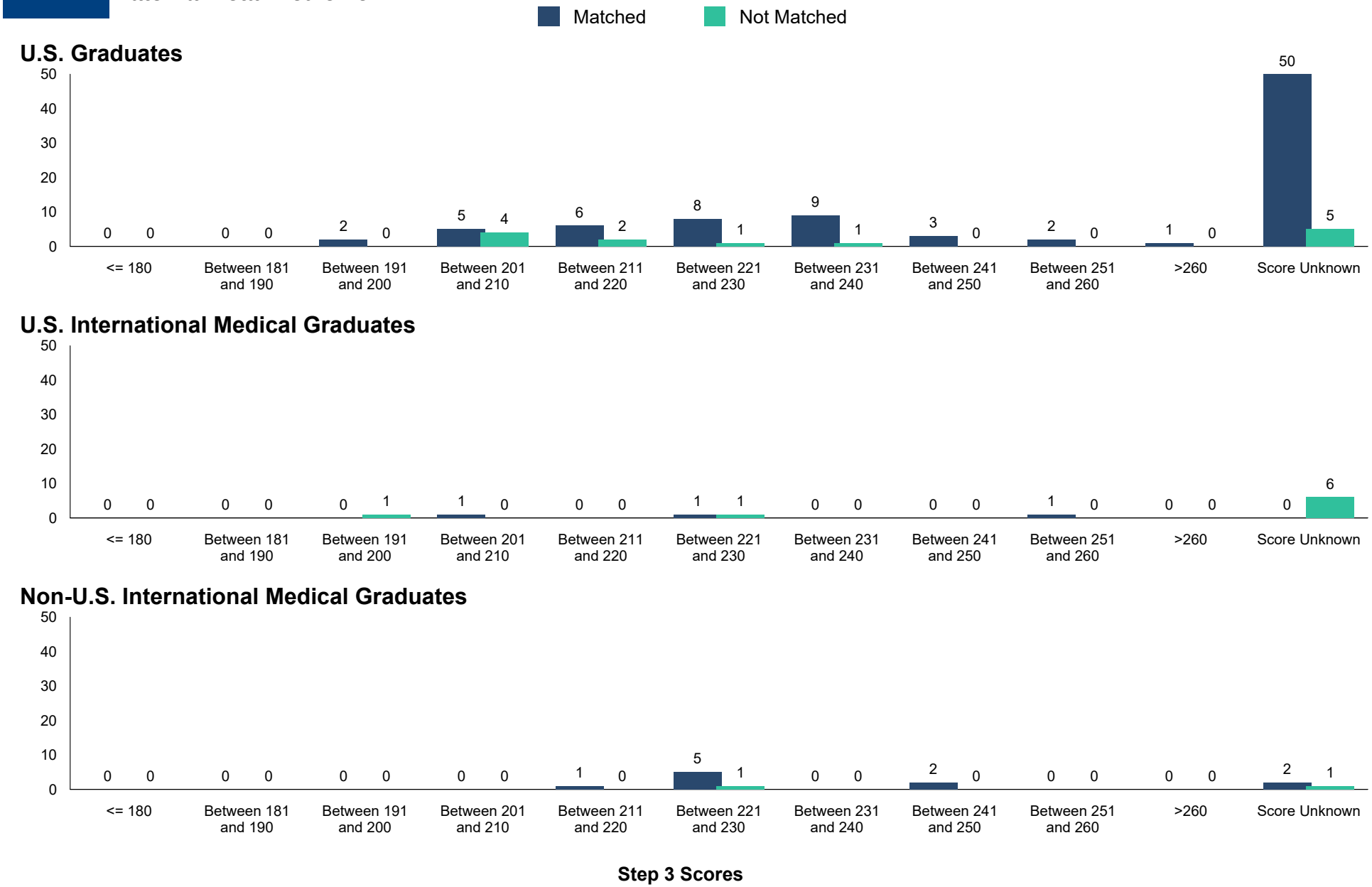
Chart-5 USMLE Step 3 Scores
Maternal-Fetal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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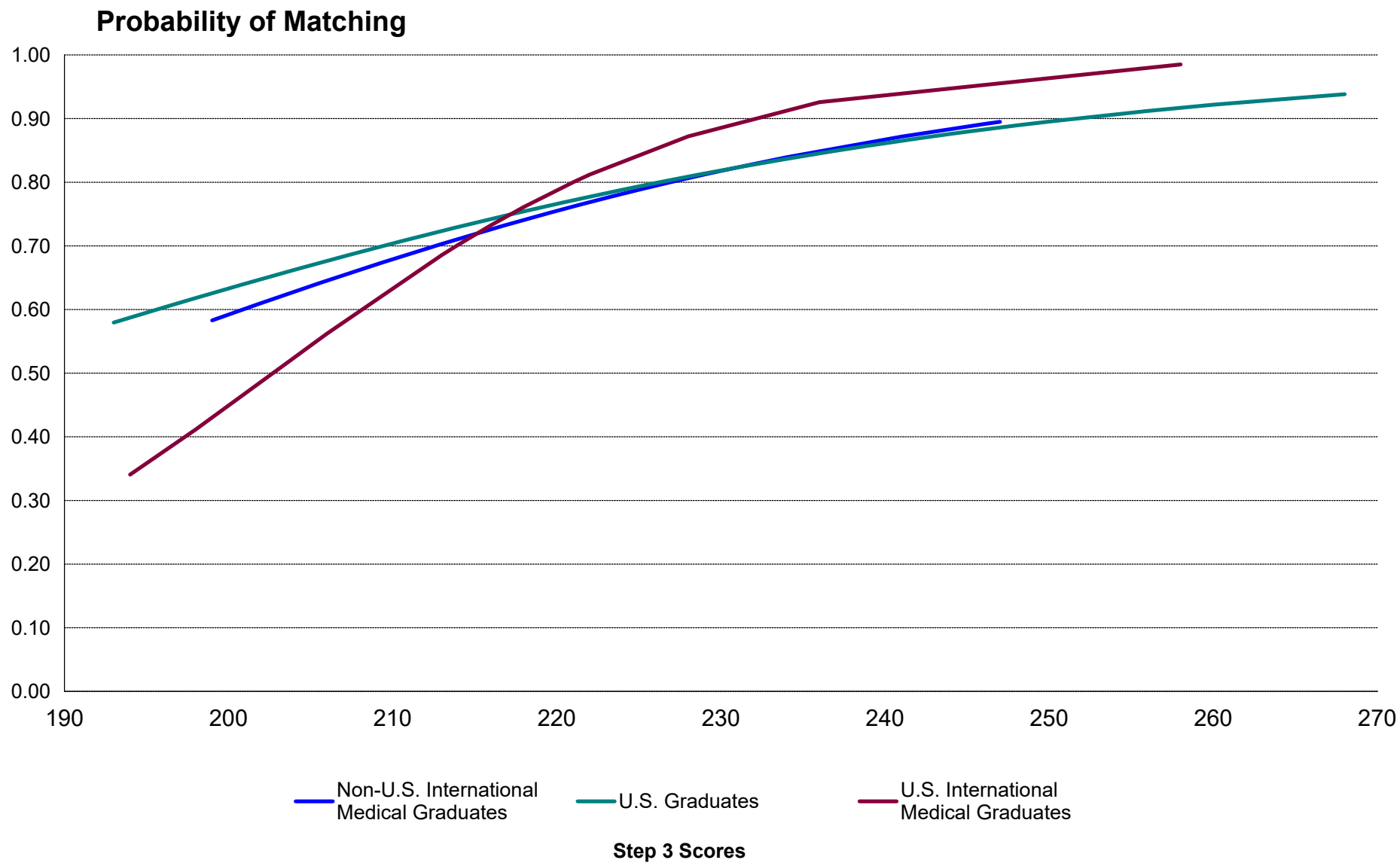
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Maternal-Fetal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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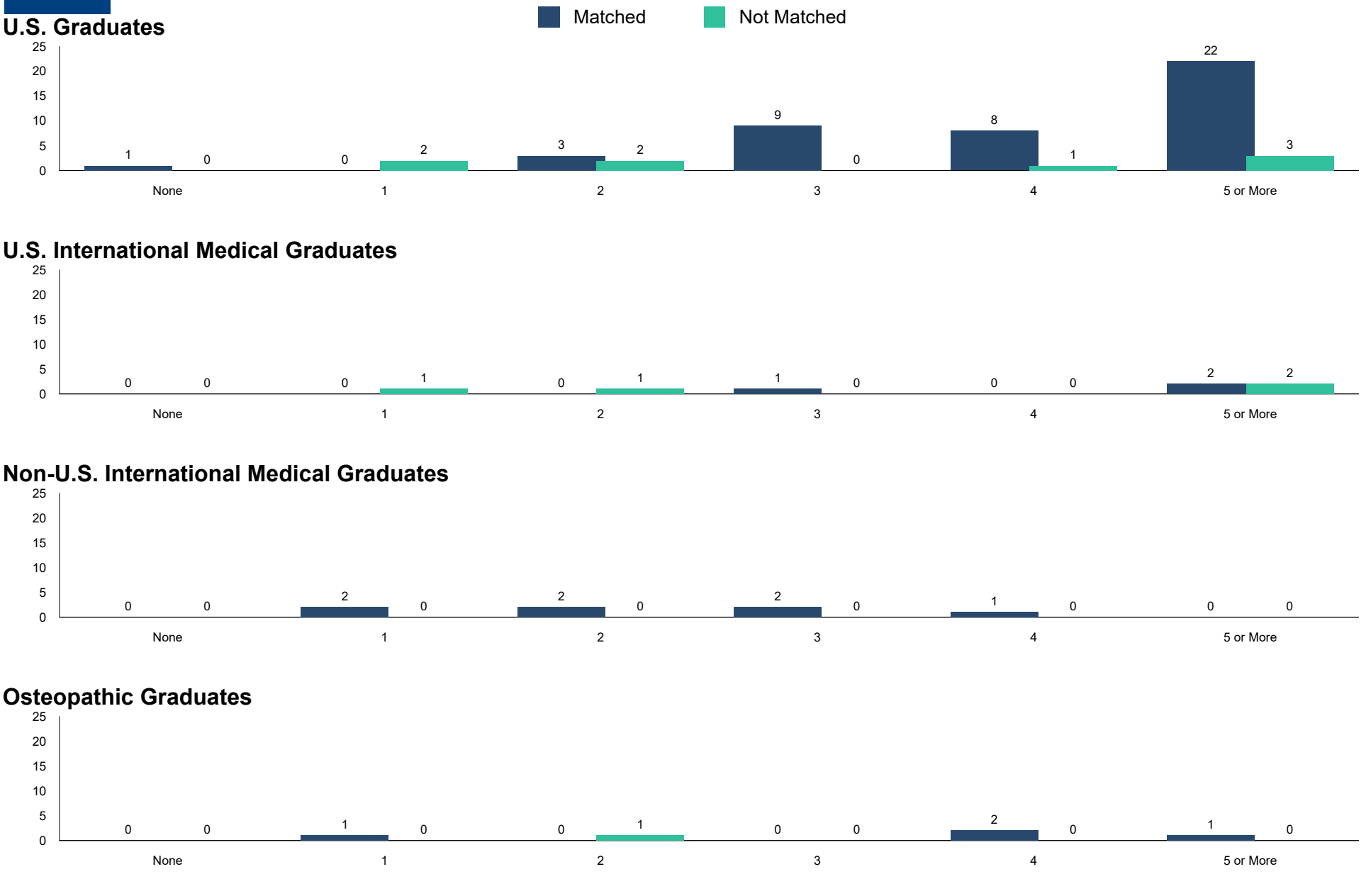
Chart-6 Number of Research Projects

Maternal-Fetal Medicine



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Maternal-Fetal Medicine

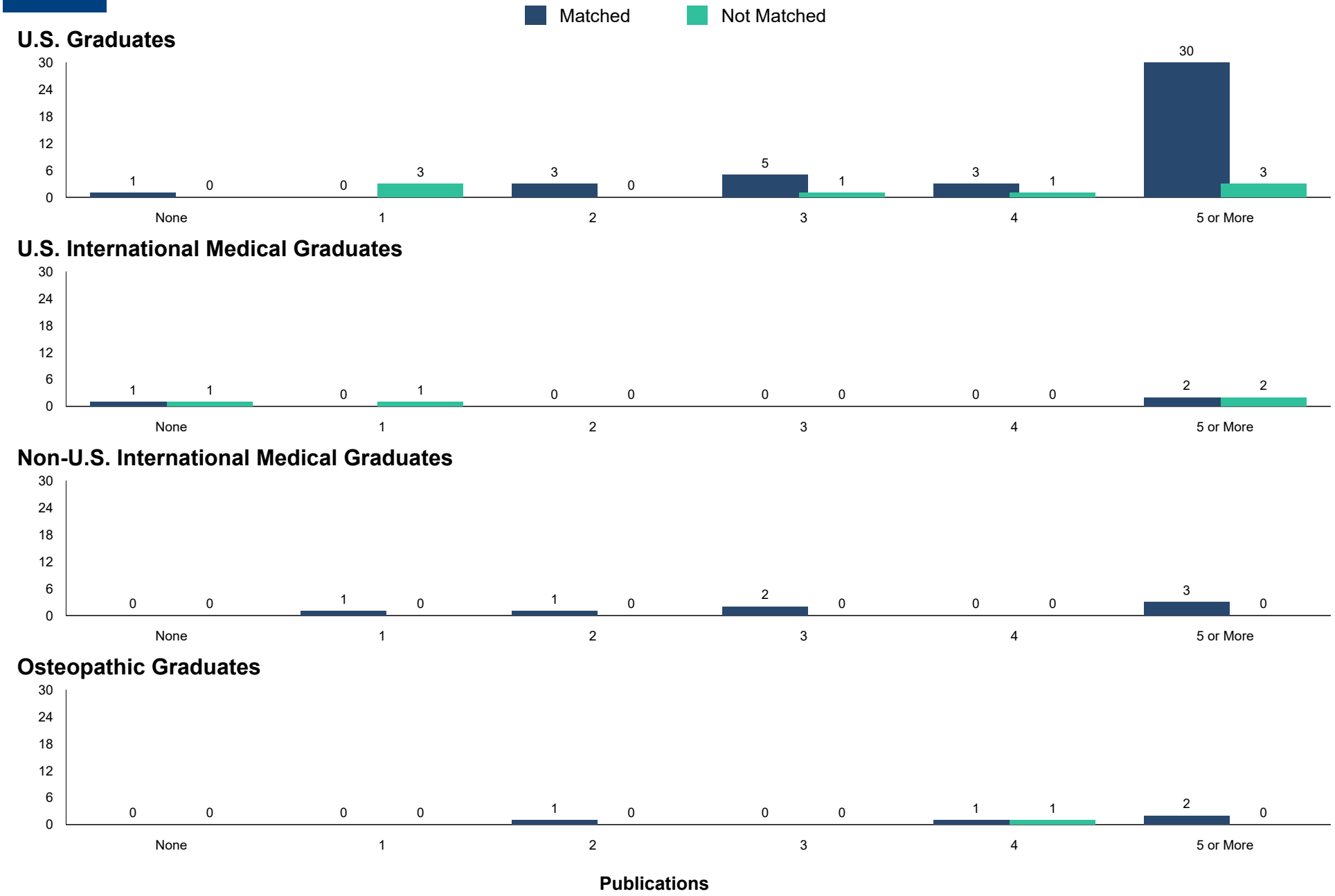

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Chart-8 Number of Work Experiences

Maternal-Fetal Medicine

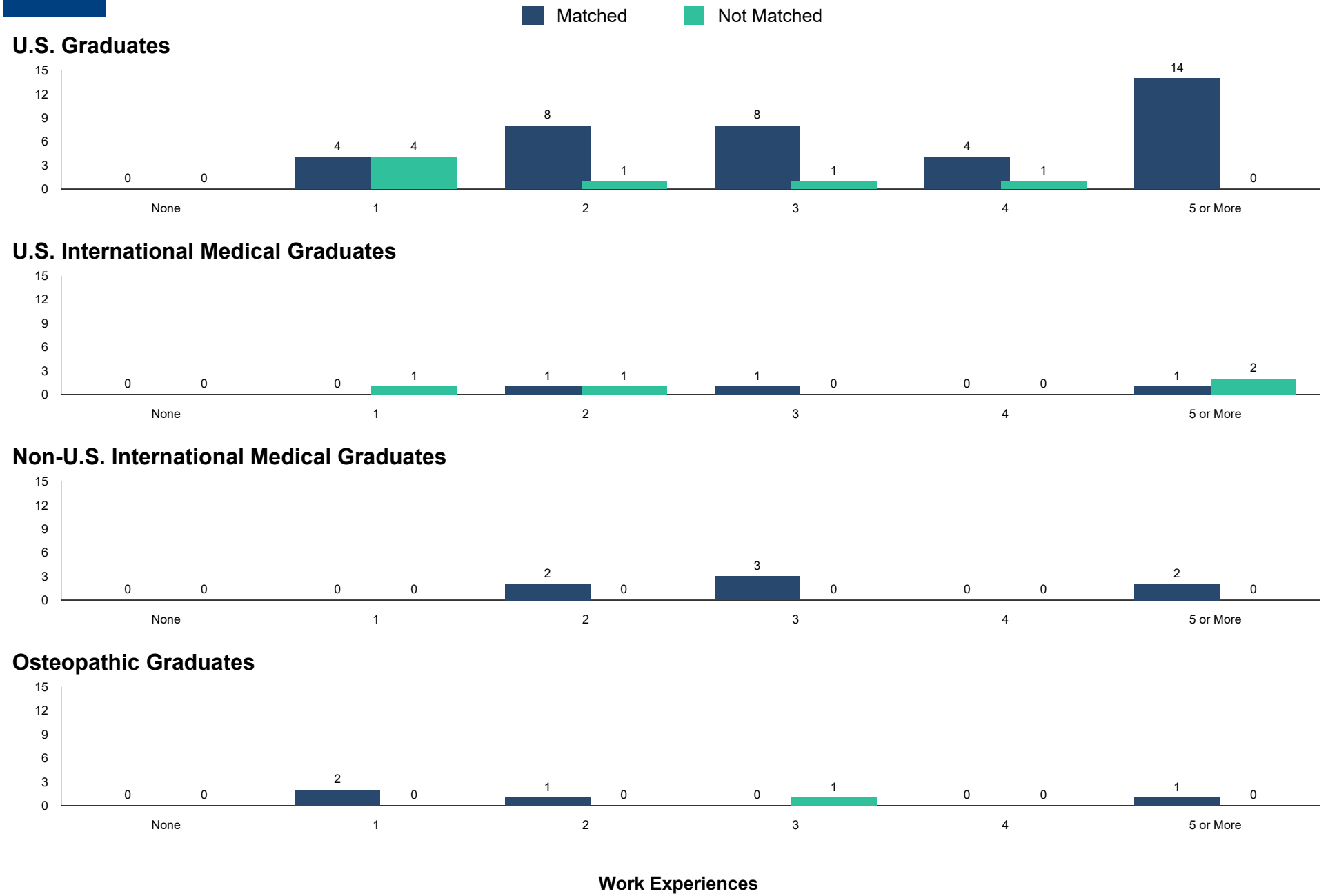

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Chart-9 Number of Volunteer Experiences

Maternal-Fetal Medicine

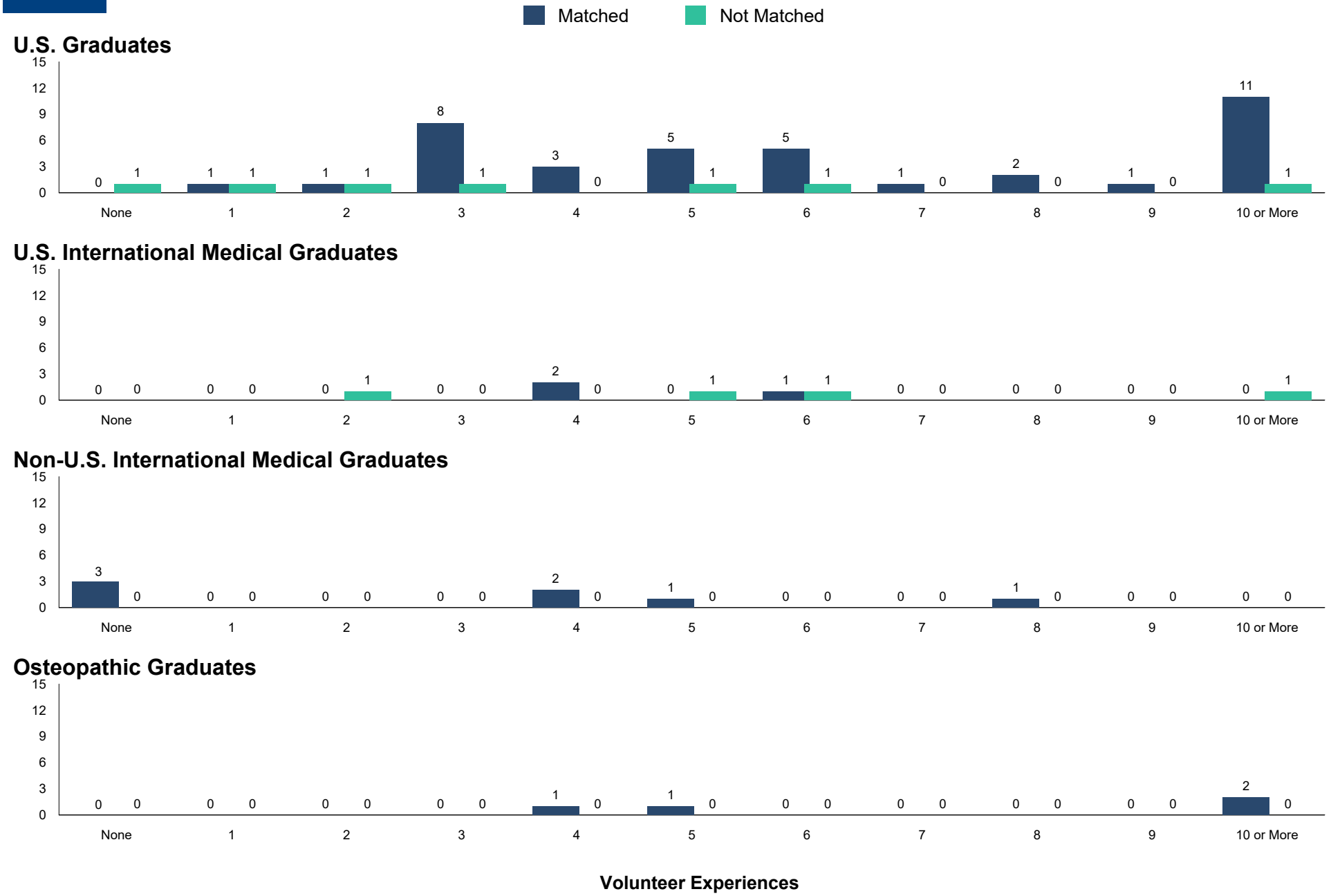

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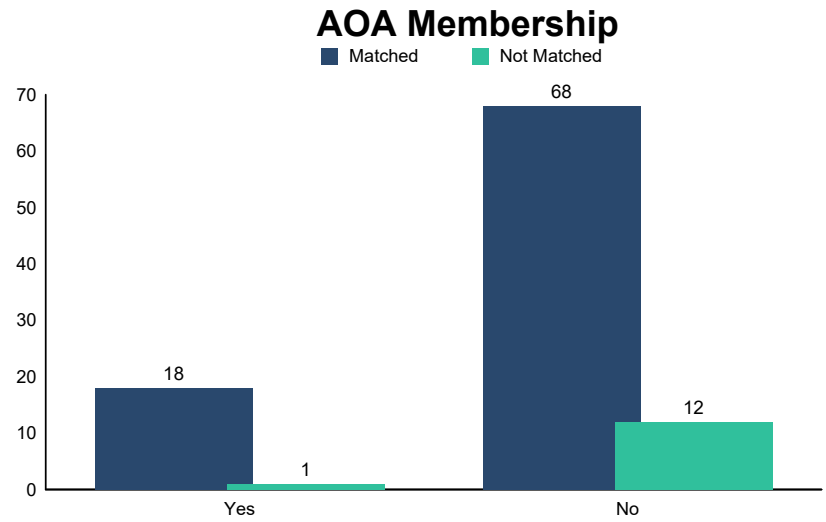
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Maternal-Fetal Medicine



Source: NRMP Data Warehouse

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Neonatal-Perinatal Medicine

Table-1 Summary Statistics
Neonatal-Perinatal Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=140)	Unmatched (n=3)	Matched (n=19)	Unmatched (n=1)	Matched (n=46)	Unmatched (n=2)	Matched (n=23)	Unmatched (n=2)
1.	Mean number of contiguous ranks	7.6	n/a	9.1	n/a	9.8	2.0	6.7	1.5
2.	Mean number of distinct specialties ranked	1.0	n/a	1.0	n/a	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	228	n/a	226	n/a	231	231	n/a	n/a
4.	Mean USMLE Step 2 score	244	n/a	234	n/a	238	204	n/a	n/a
5.	Mean USMLE Step 3 score	227	n/a	226	n/a	217	214	n/a	n/a
6.	Mean number of research experiences	4.4	n/a	2.6	n/a	3.0	2.0	2.7	n/a
7.	Mean number of abstracts, presentations, and publications	5.8	n/a	4.0	n/a	5.9	8.0	2.8	n/a
8.	Mean number of work experiences	3.1	n/a	1.8	n/a	4.0	1.0	2.9	n/a
9.	Mean number of volunteer experiences	6.2	n/a	2.2	n/a	3.2	0.0	5.3	n/a
10.	Percentage who are AOA members	10.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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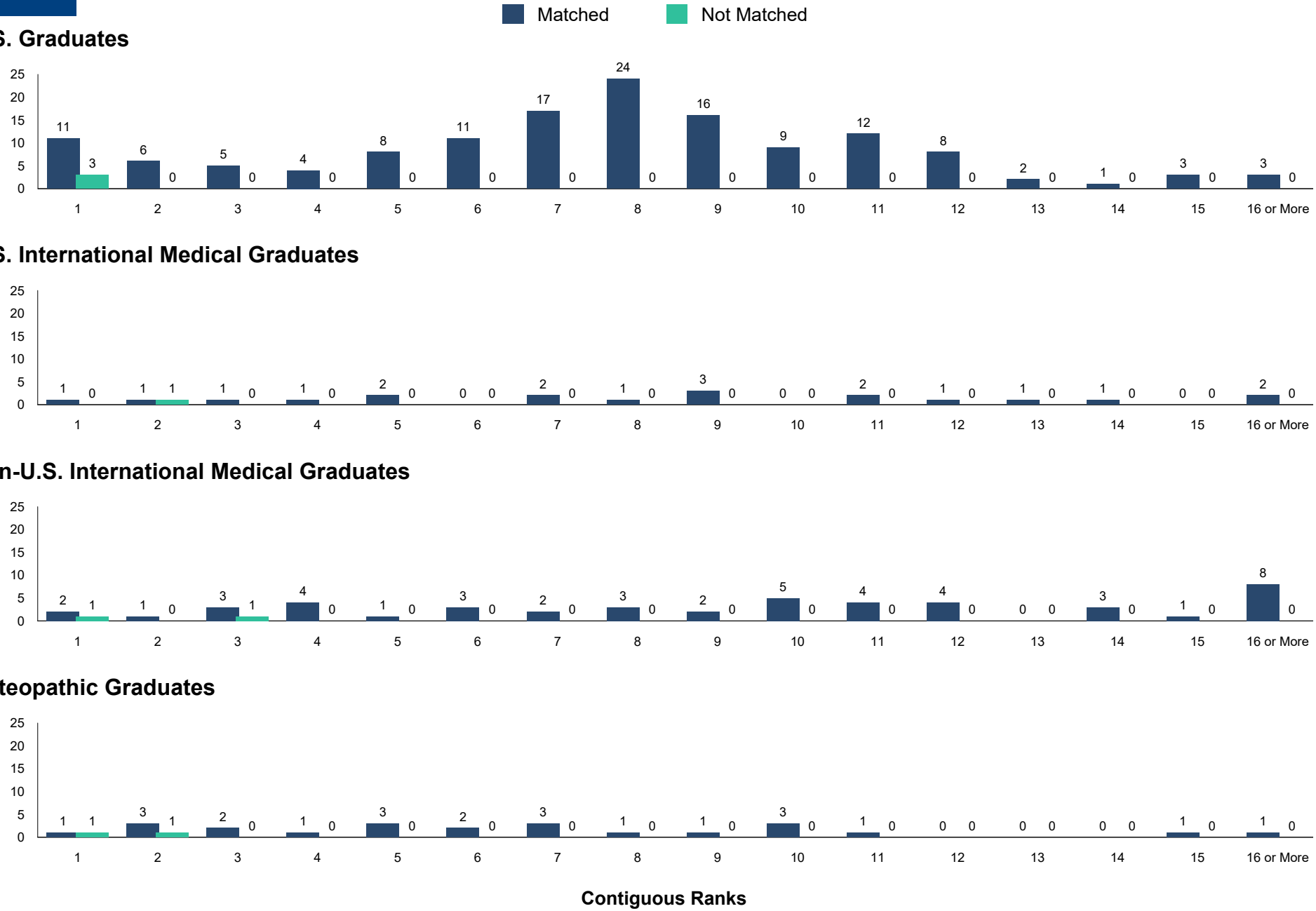
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Neonatal-Perinatal Medicine



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Neonatal-Perinatal Medicine

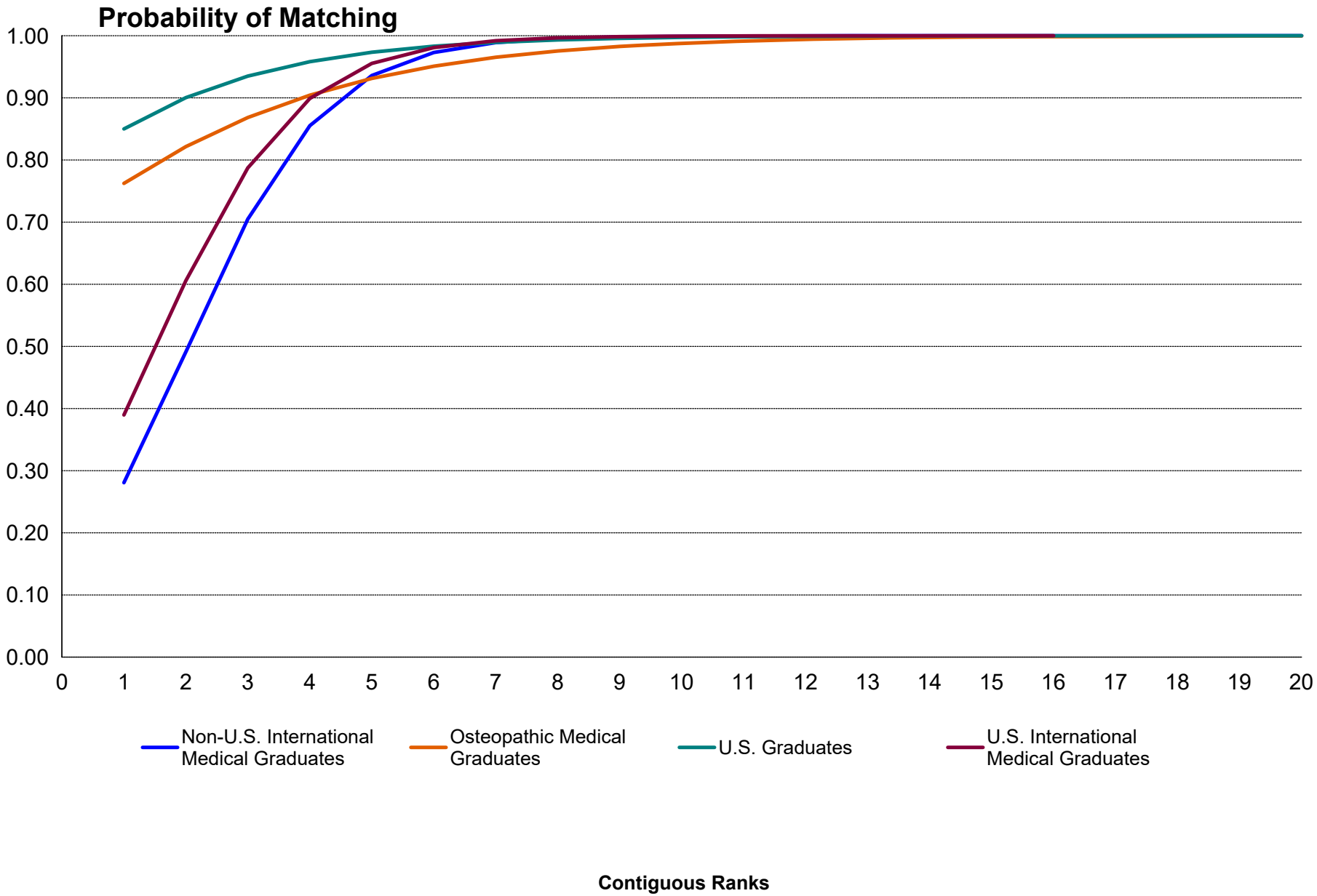

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Chart-2 Number of Distinct Specialties Ranked

Neonatal-Perinatal Medicine

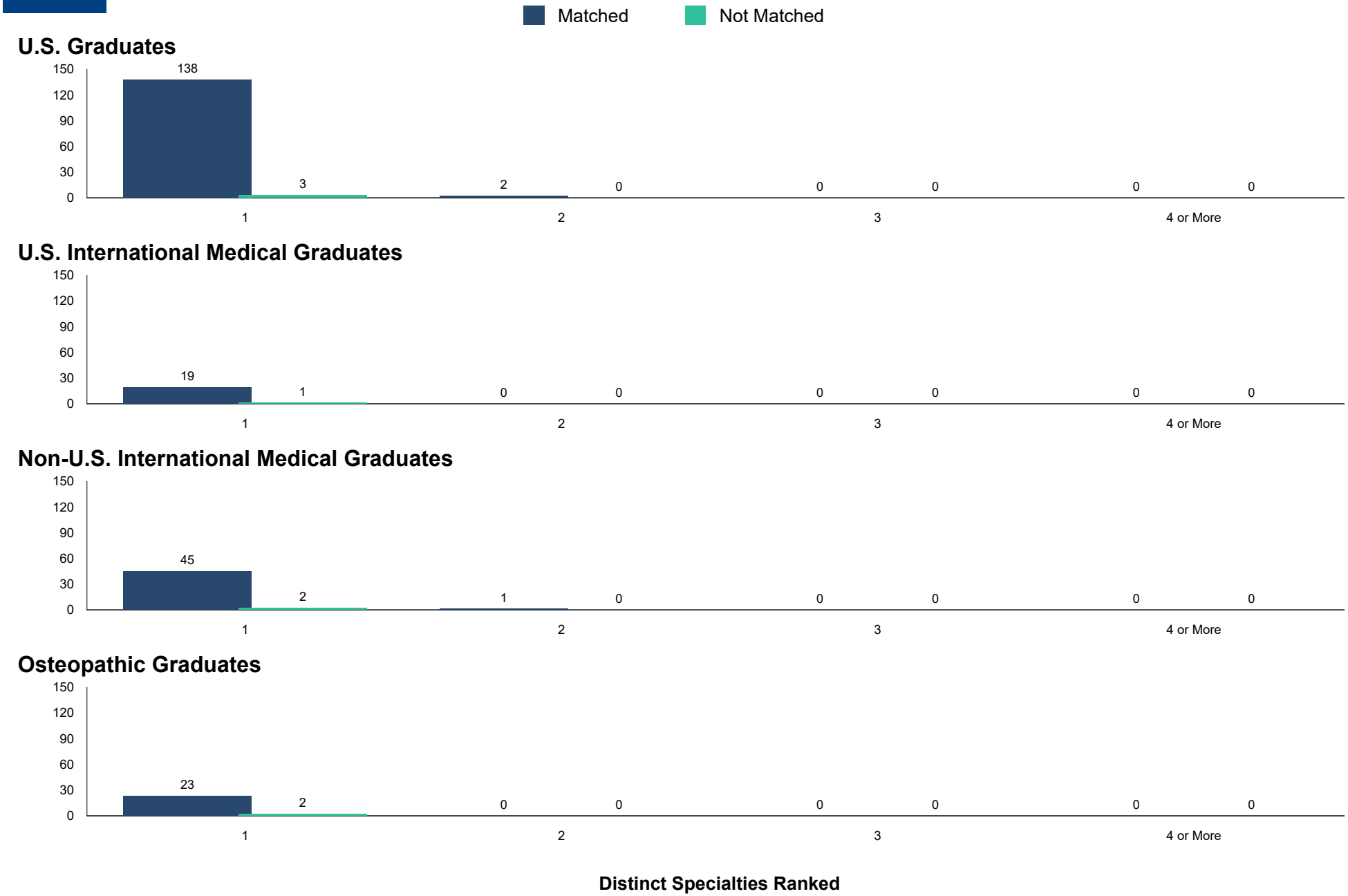

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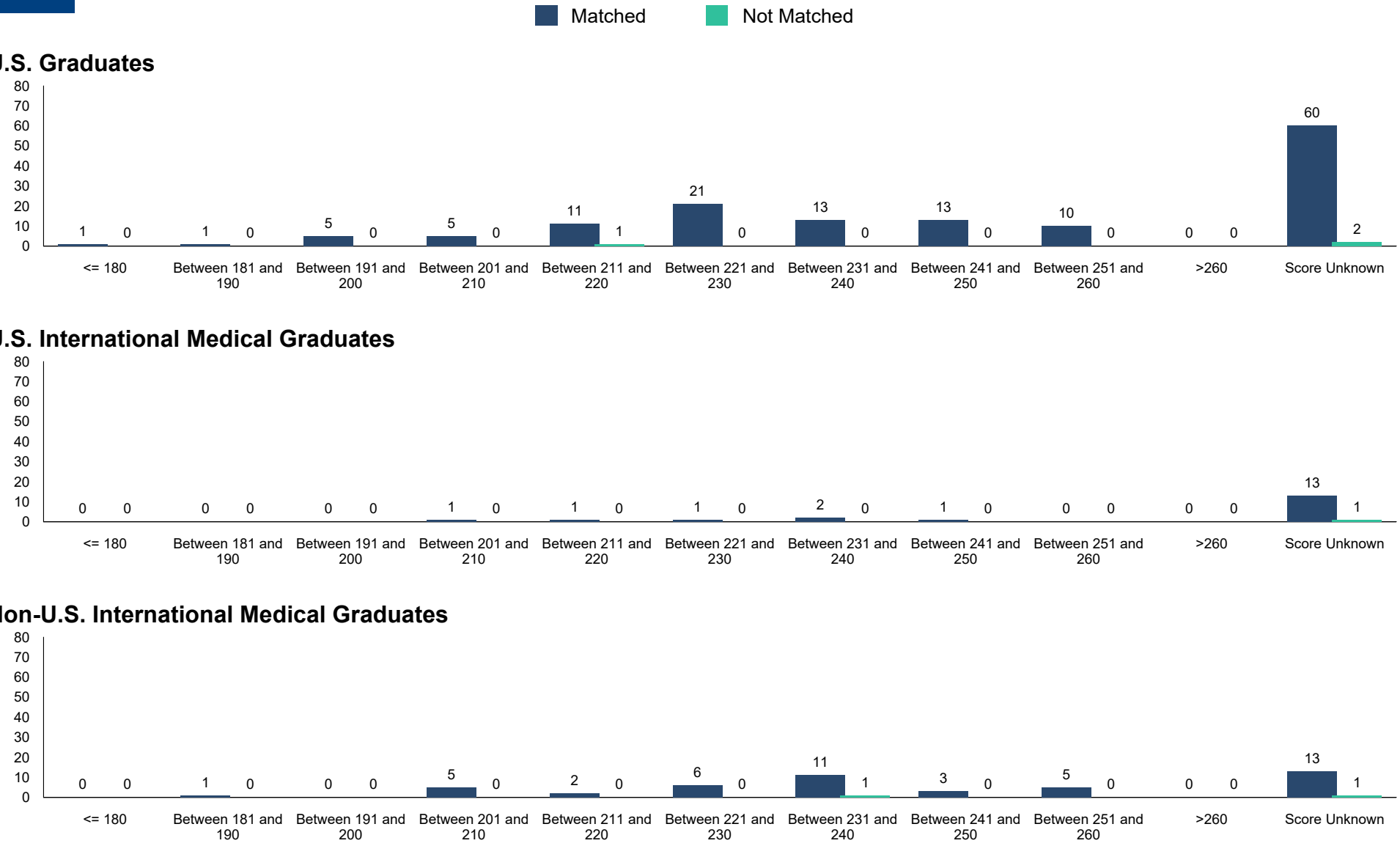
Chart-3 USMLE Step 1 Scores

Neonatal-Perinatal Medicine



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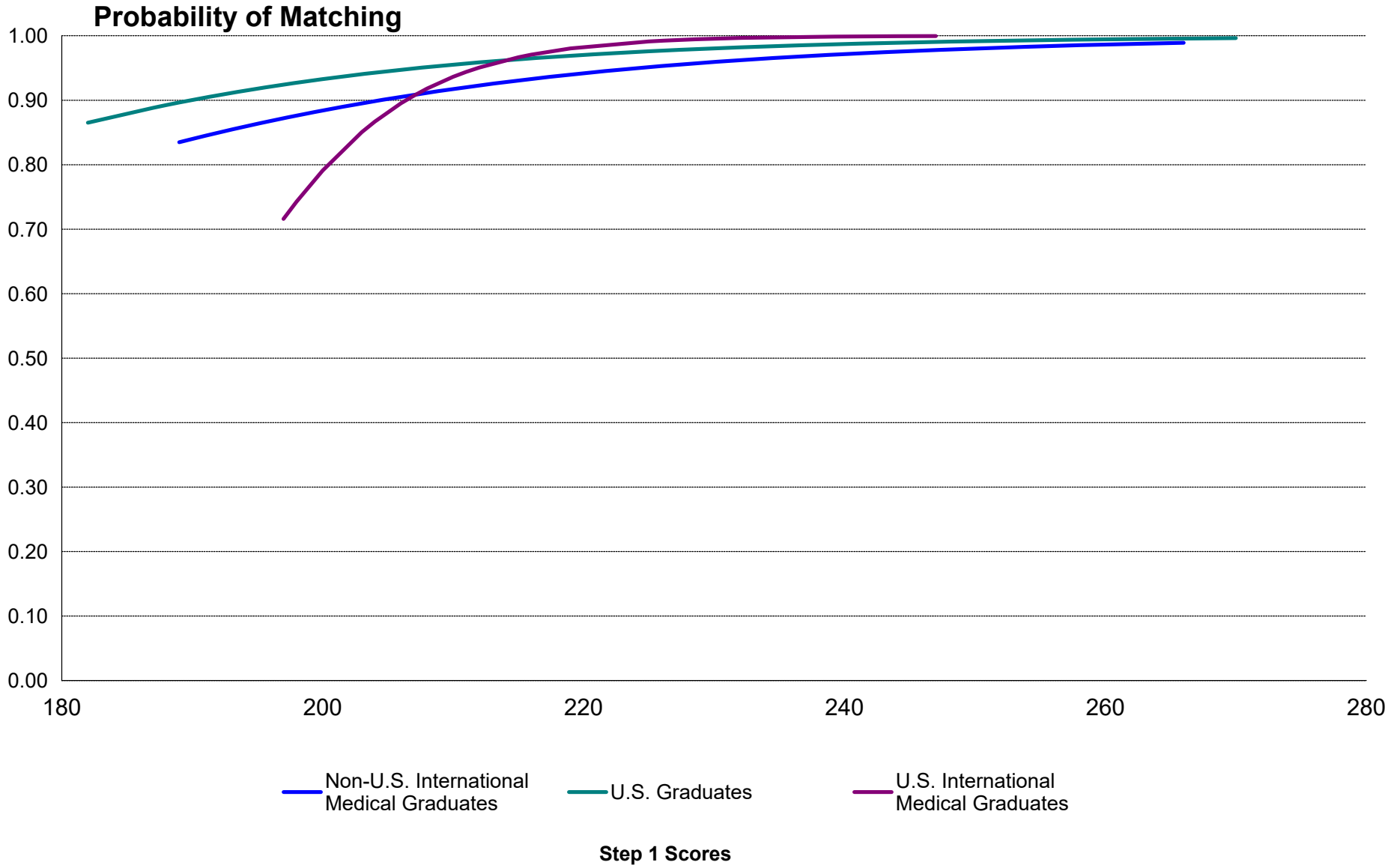
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Neonatal-Perinatal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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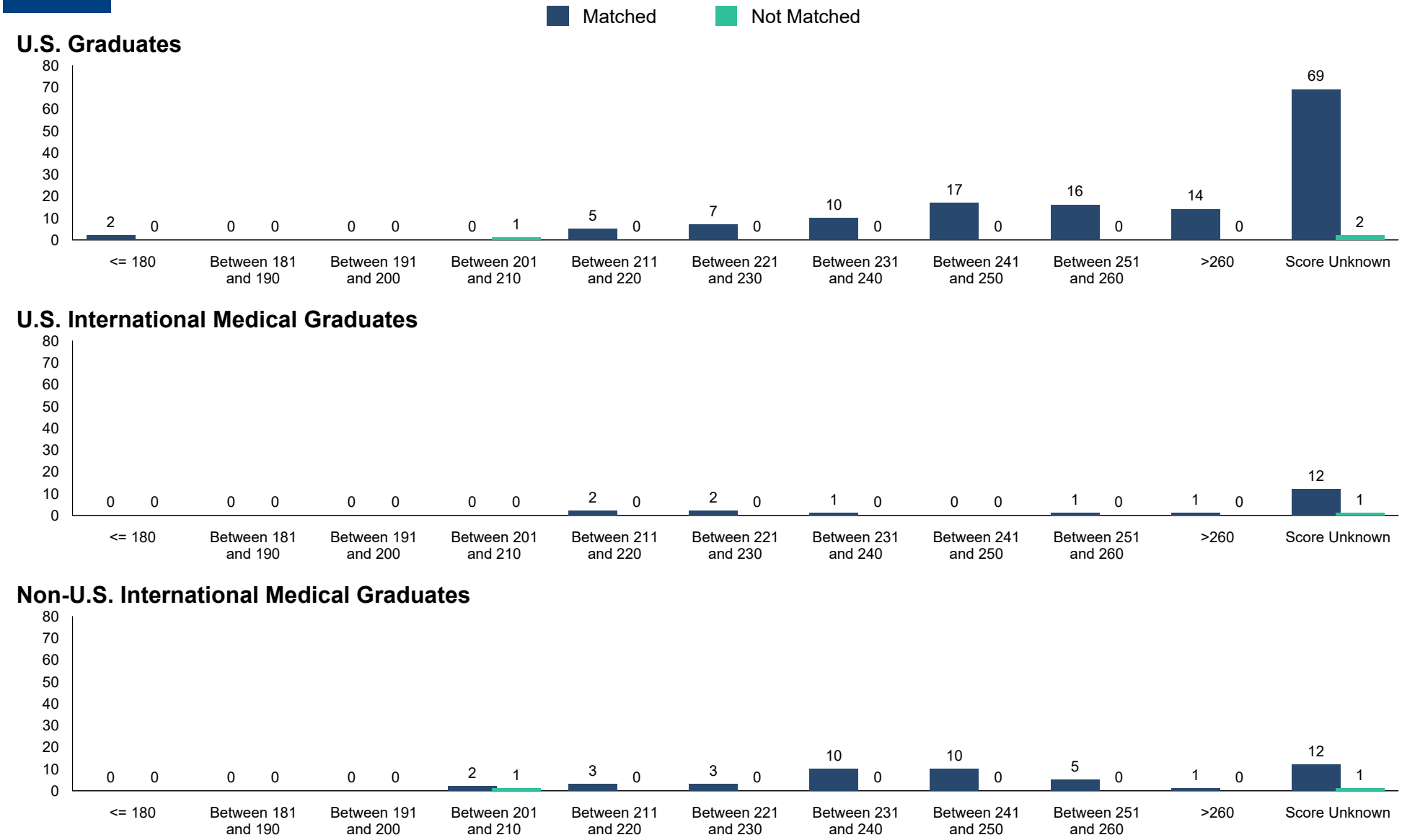
Chart-4 USMLE Step 2 Scores

Neonatal-Perinatal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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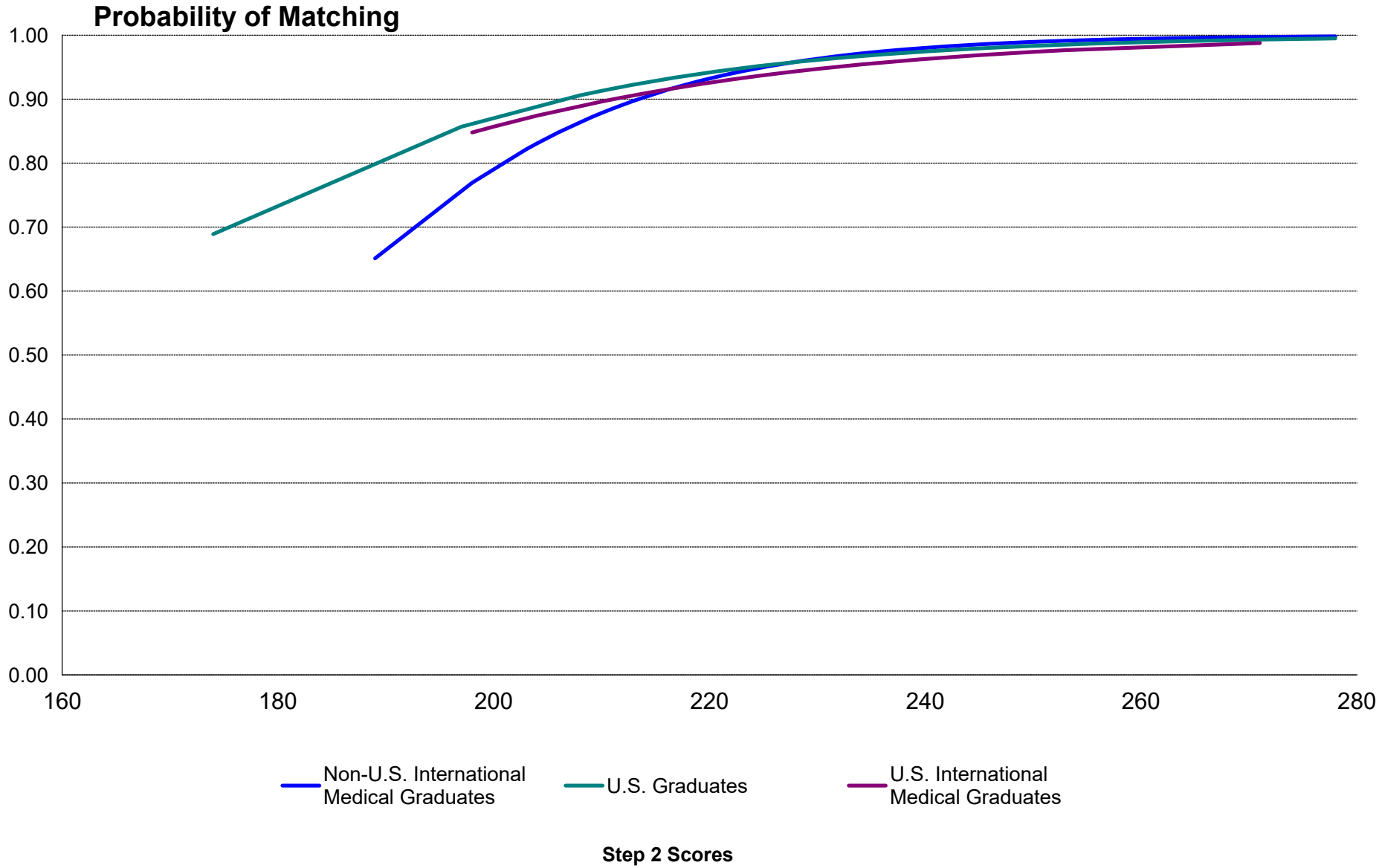
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Neonatal-Perinatal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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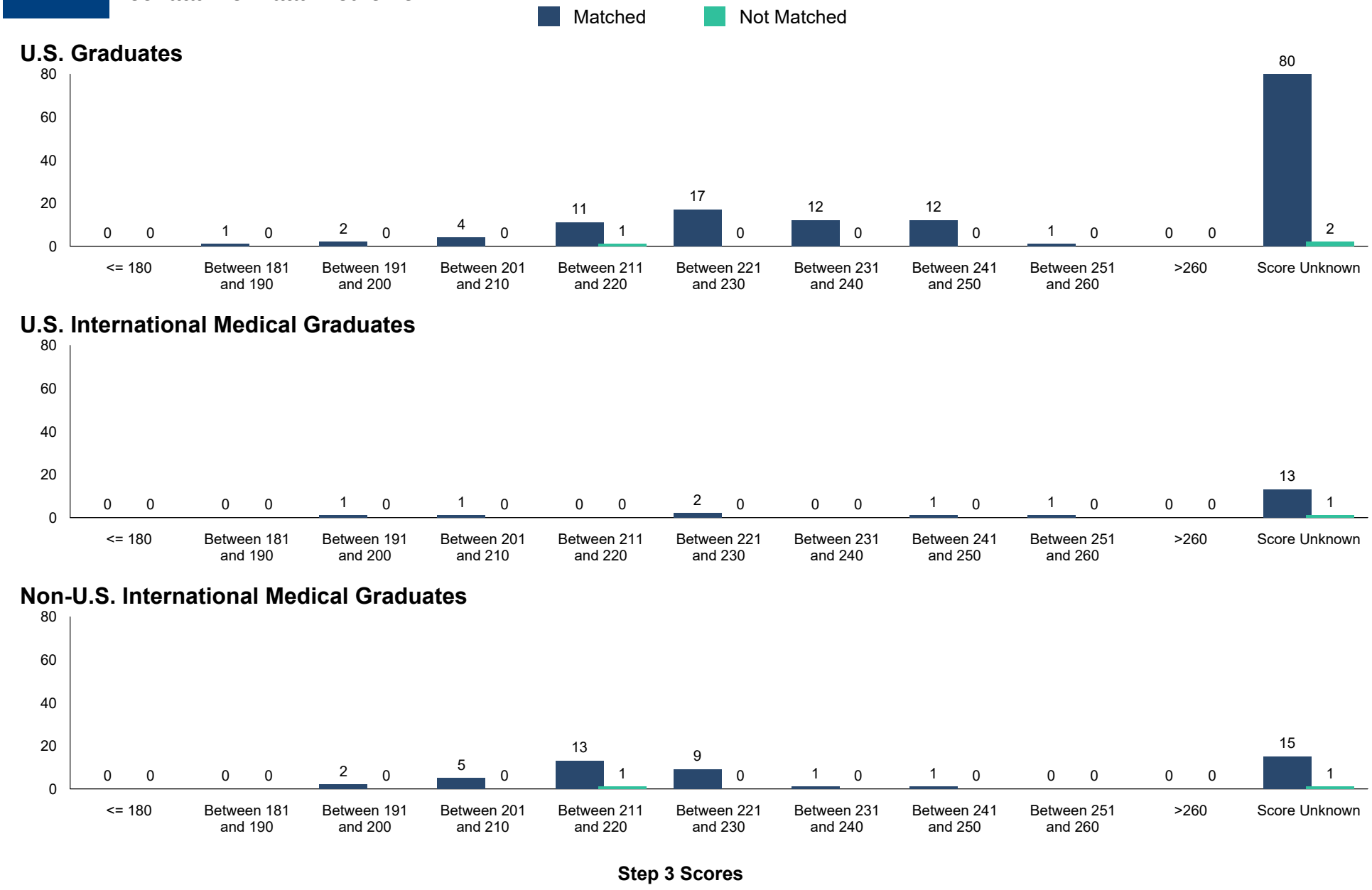
Chart-5 USMLE Step 3 Scores

Neonatal-Perinatal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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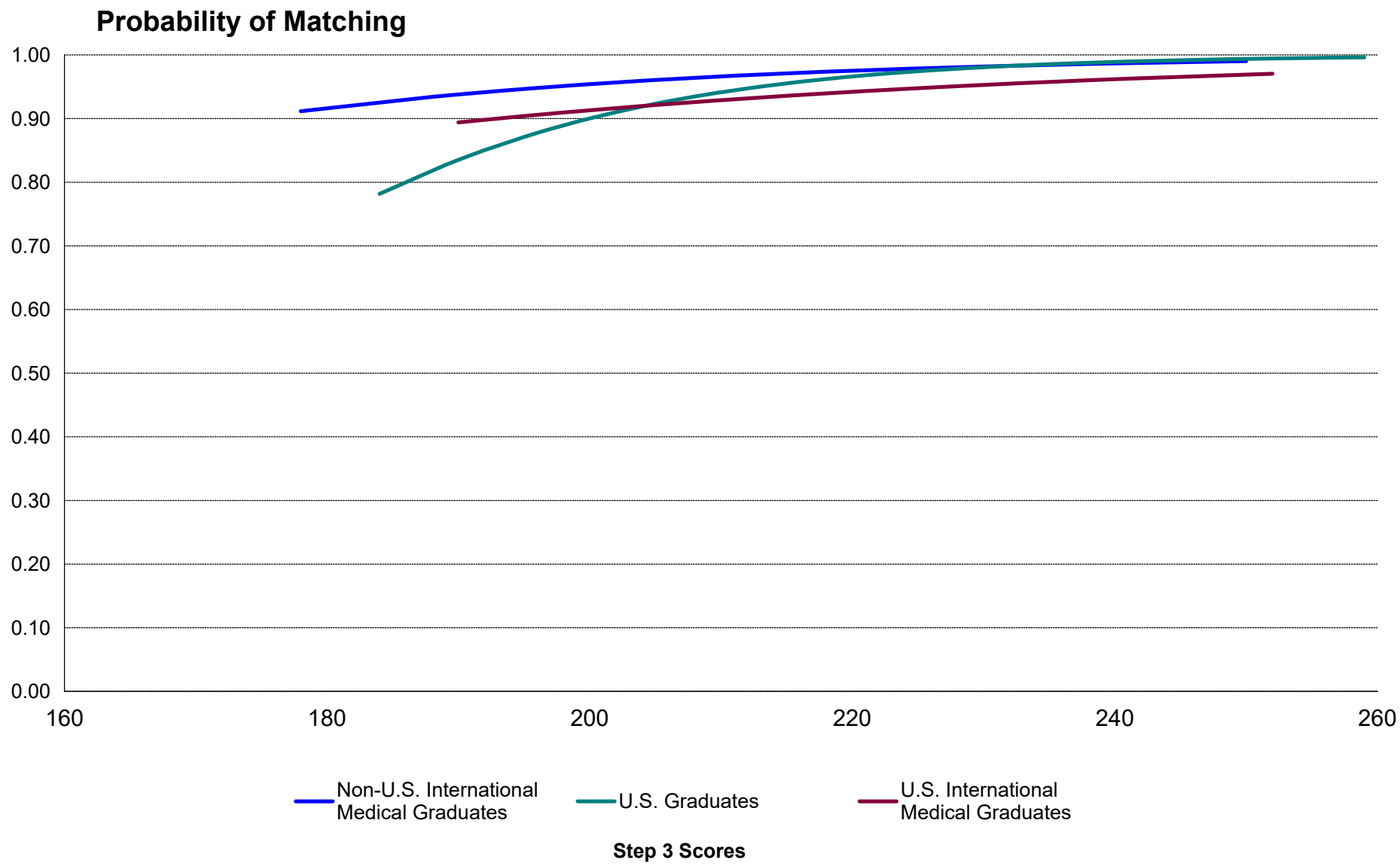
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Neonatal-Perinatal Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Neonatal-Perinatal Medicine

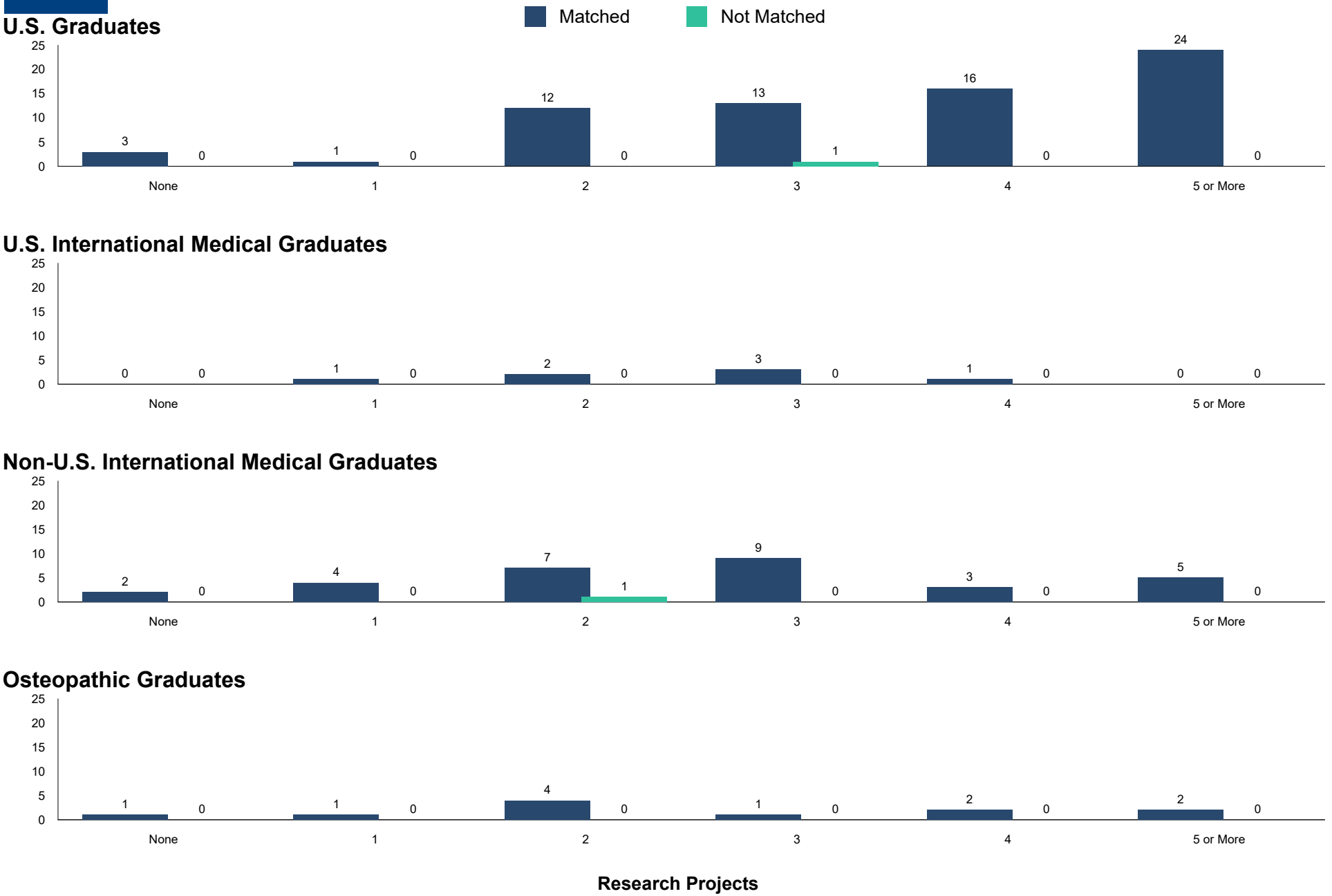

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Chart-7 Number of Abstracts, Presentations, and Publications

Neonatal-Perinatal Medicine

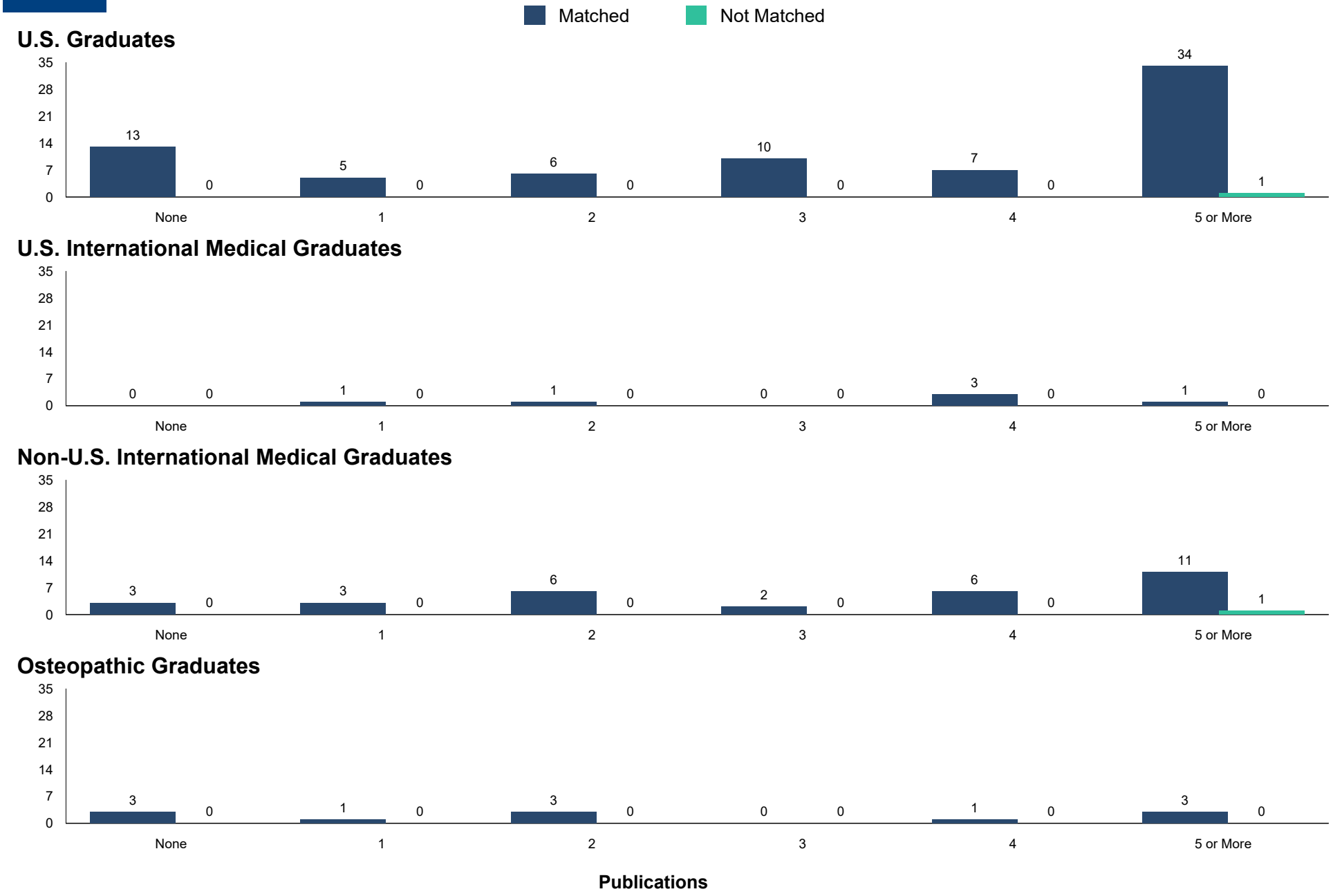

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Chart-8 Number of Work Experiences

Neonatal-Perinatal Medicine

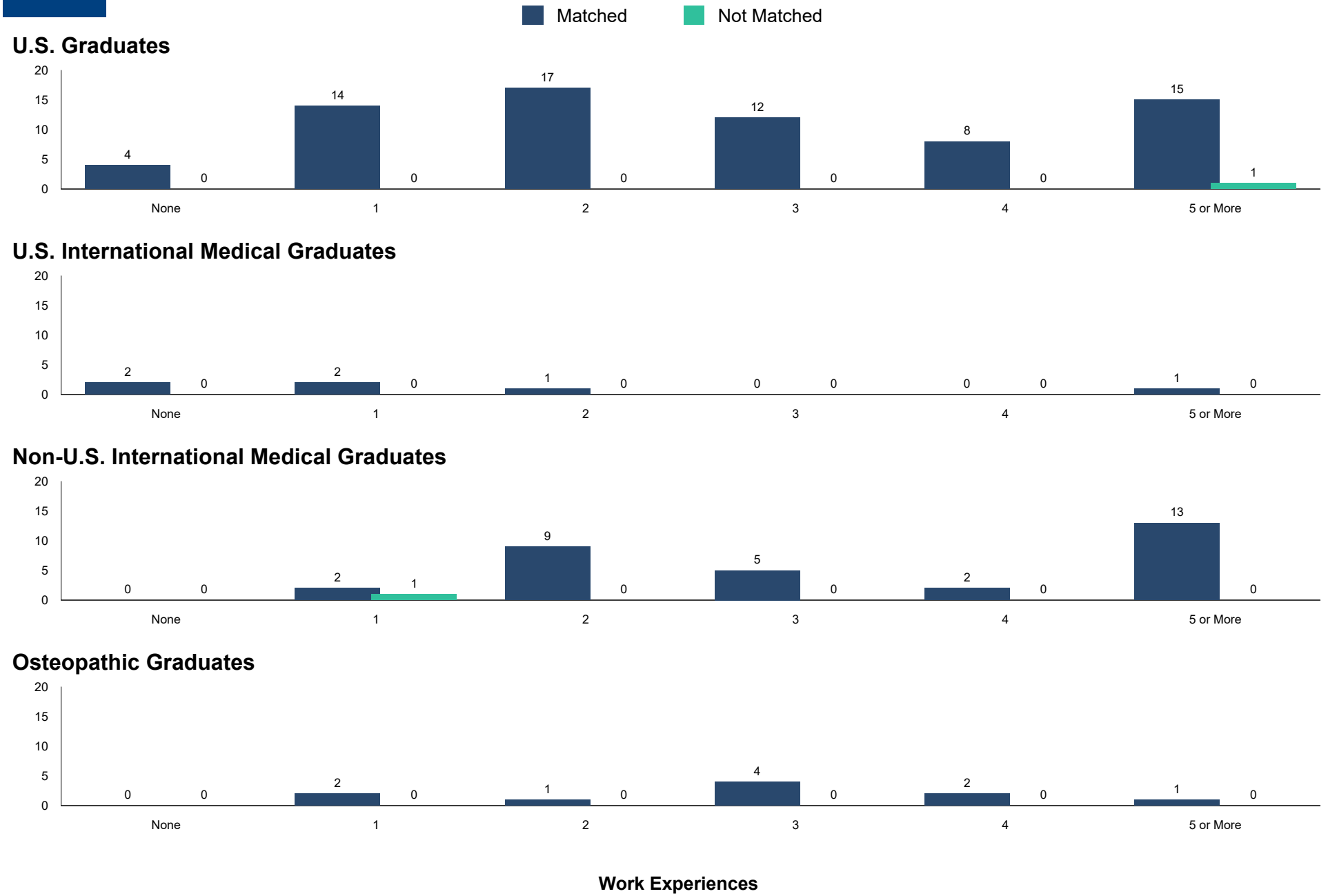

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Chart-9 Number of Volunteer Experiences

Neonatal-Perinatal Medicine

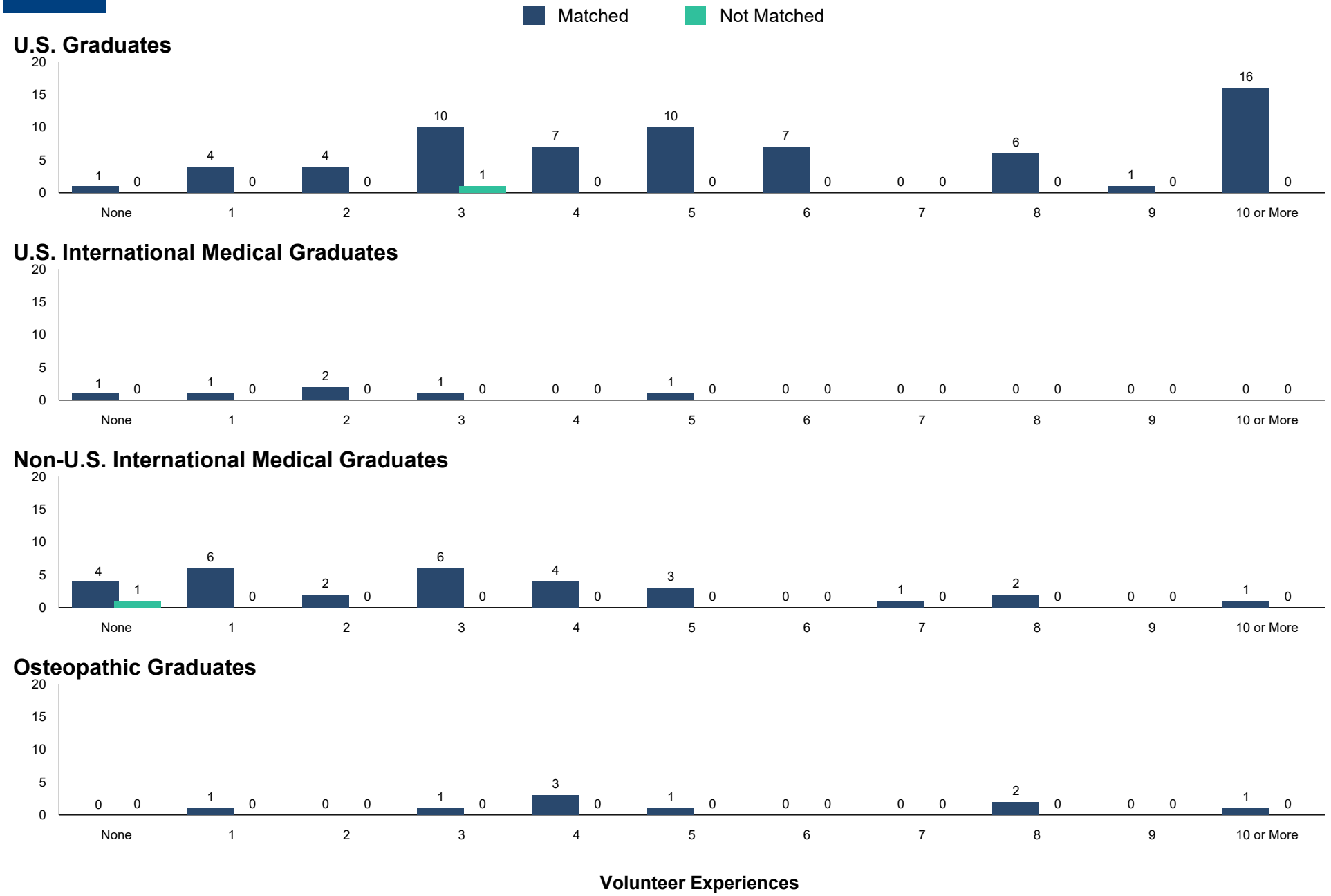

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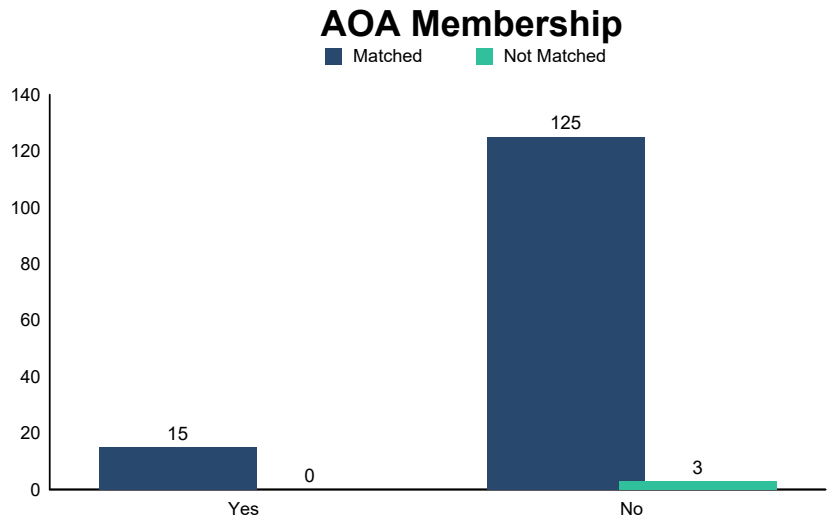
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Neonatal-Perinatal Medicine



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Nephrology

Table-1 Summary Statistics
Nephrology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=90)	Unmatched (n=0)	Matched (n=49)	Unmatched (n=1)	Matched (n=99)	Unmatched (n=8)	Matched (n=33)	Unmatched (n=2)
1.	Mean number of contiguous ranks	7.3	n/a	6.6	n/a	8.3	2.1	6.0	2.5
2.	Mean number of distinct specialties ranked	1.0	n/a	1.0	n/a	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	230	n/a	226	n/a	232	215	n/a	n/a
4.	Mean USMLE Step 2 score	241	n/a	233	n/a	235	232	n/a	n/a
5.	Mean USMLE Step 3 score	231	n/a	219	n/a	219	216	n/a	n/a
6.	Mean number of research experiences	3.2	n/a	2.2	n/a	2.4	1.7	2.2	4.0
7.	Mean number of abstracts, presentations, and publications	6.6	n/a	6.6	n/a	7.6	7.2	5.5	4.0
8.	Mean number of work experiences	2.7	n/a	4.7	n/a	4.6	5.4	2.5	1.0
9.	Mean number of volunteer experiences	5.0	n/a	2.0	n/a	3.7	3.6	4.9	1.0
10.	Percentage who are AOA members	14.4	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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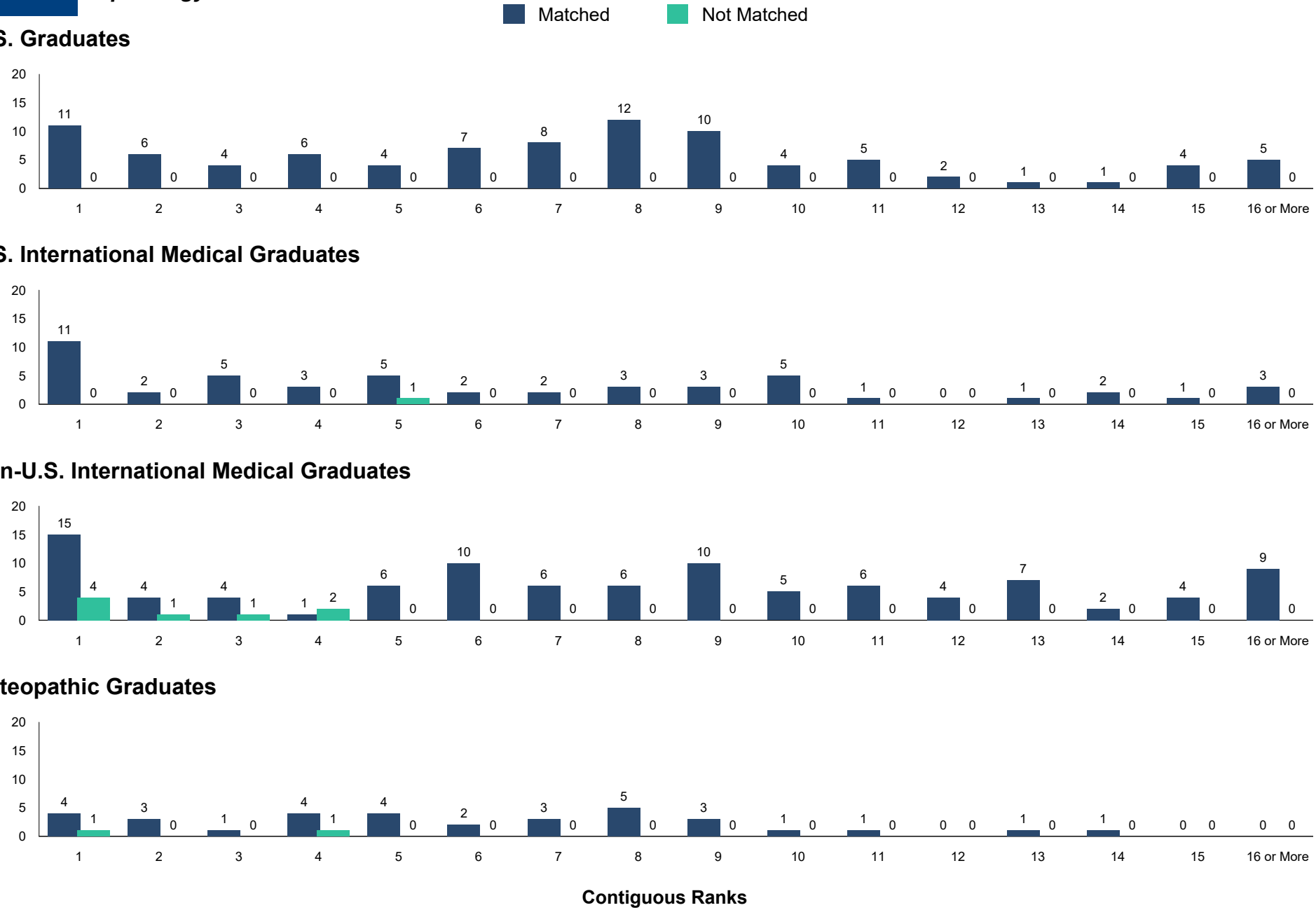
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Nephrology



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Nephrology

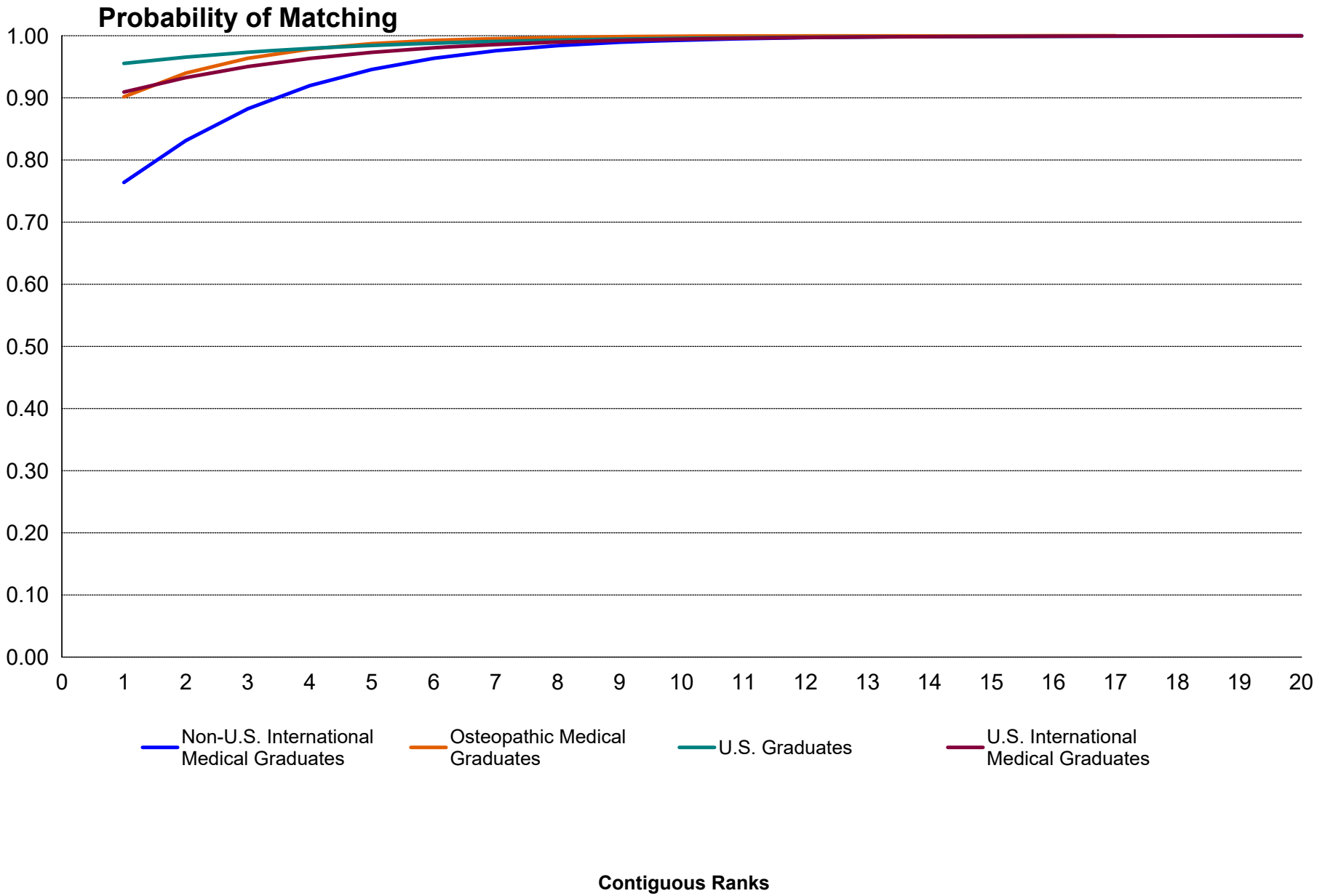

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Chart-2 Number of Distinct Specialties Ranked

Nephrology

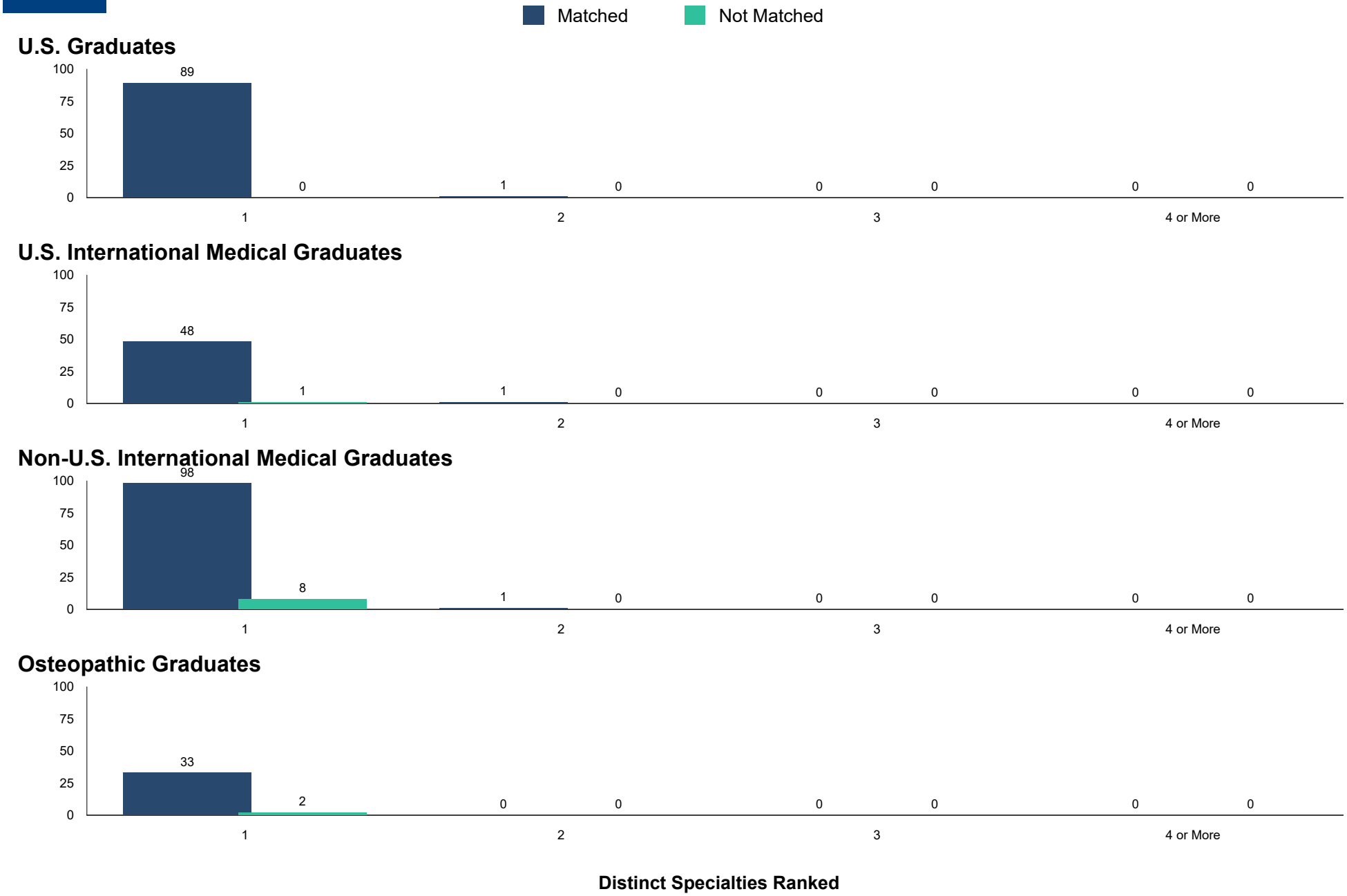

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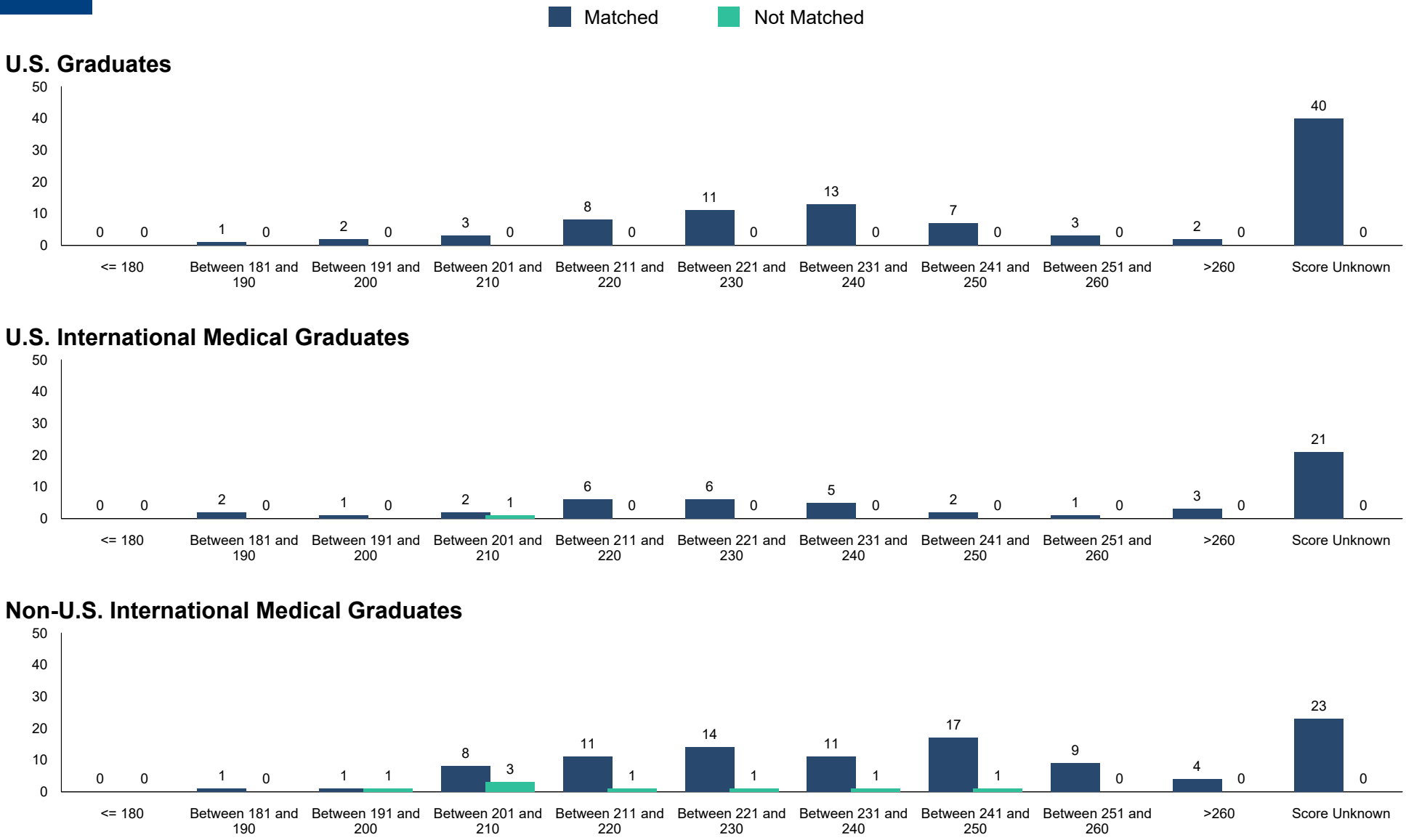
Chart-3 USMLE Step 1 Scores
Nephrology



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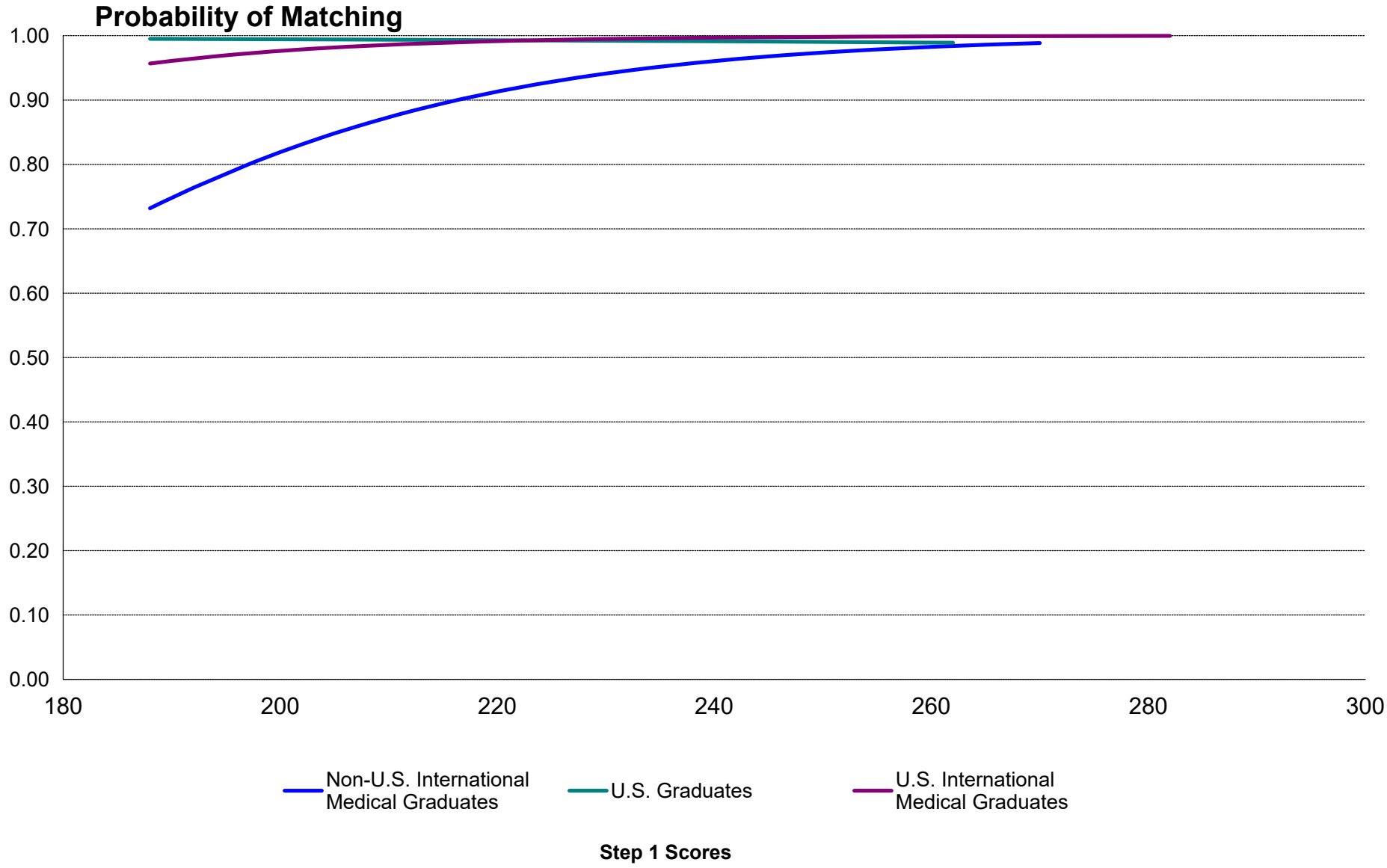
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Nephrology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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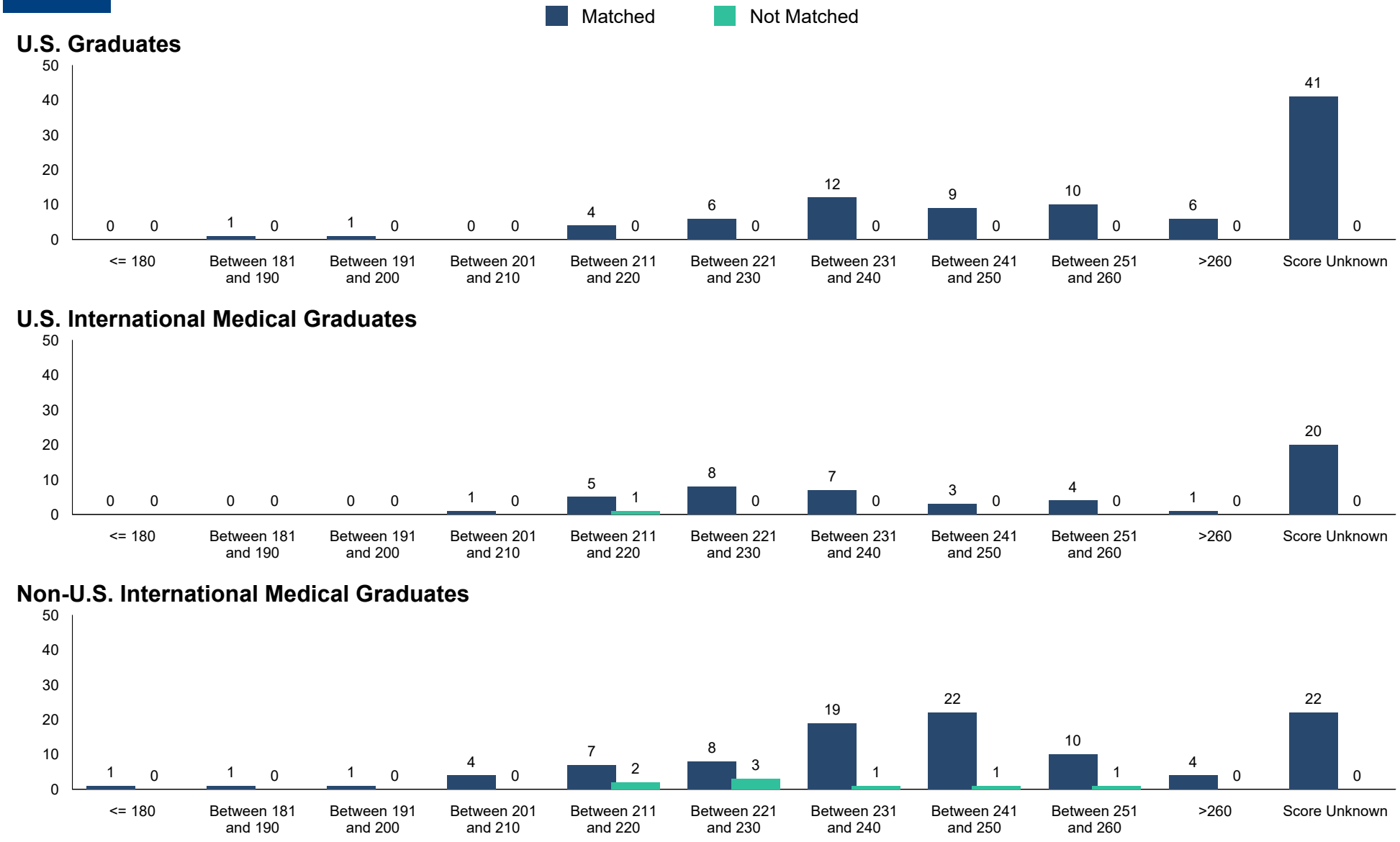
Chart-4 USMLE Step 2 Scores
Nephrology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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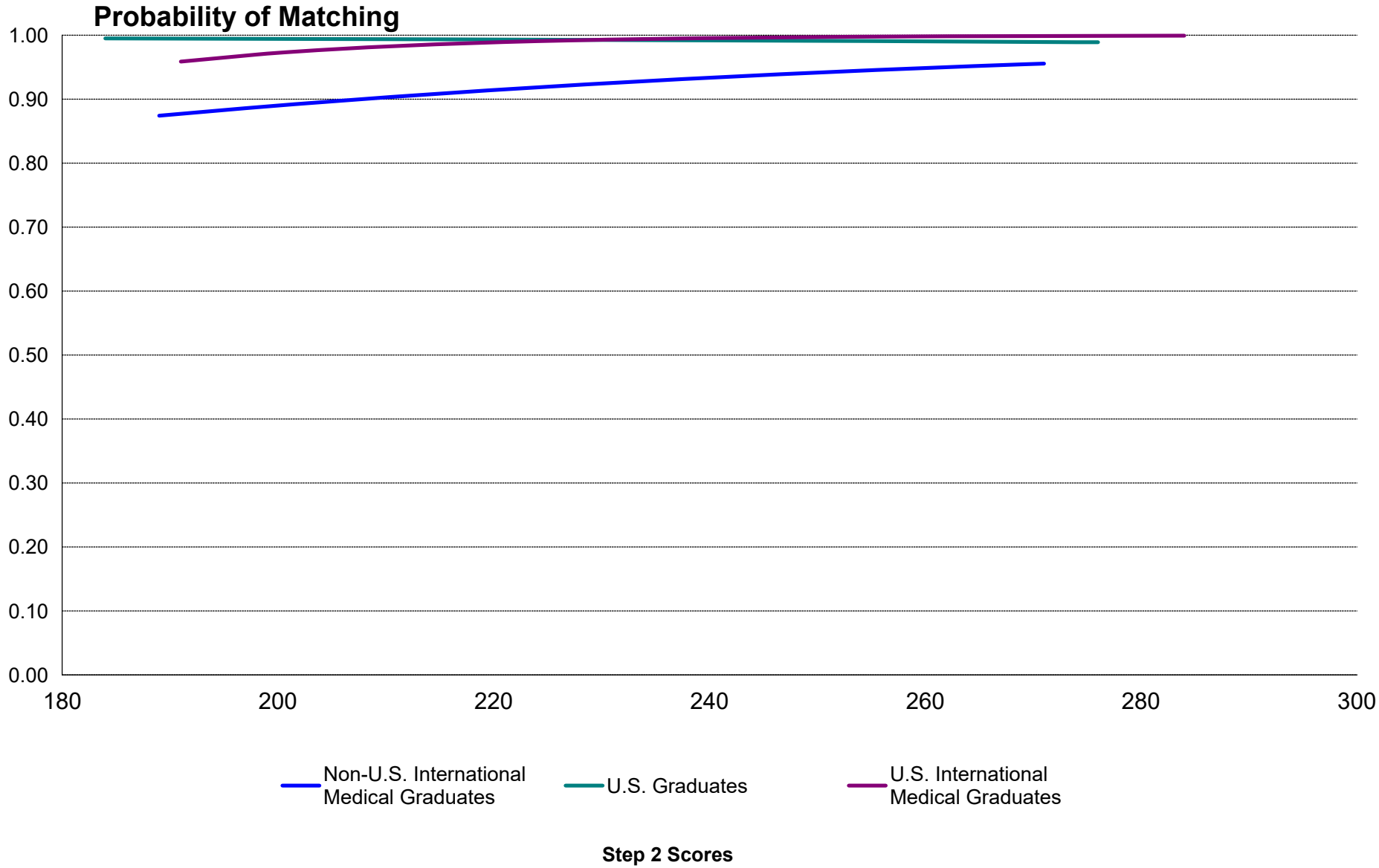
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Nephrology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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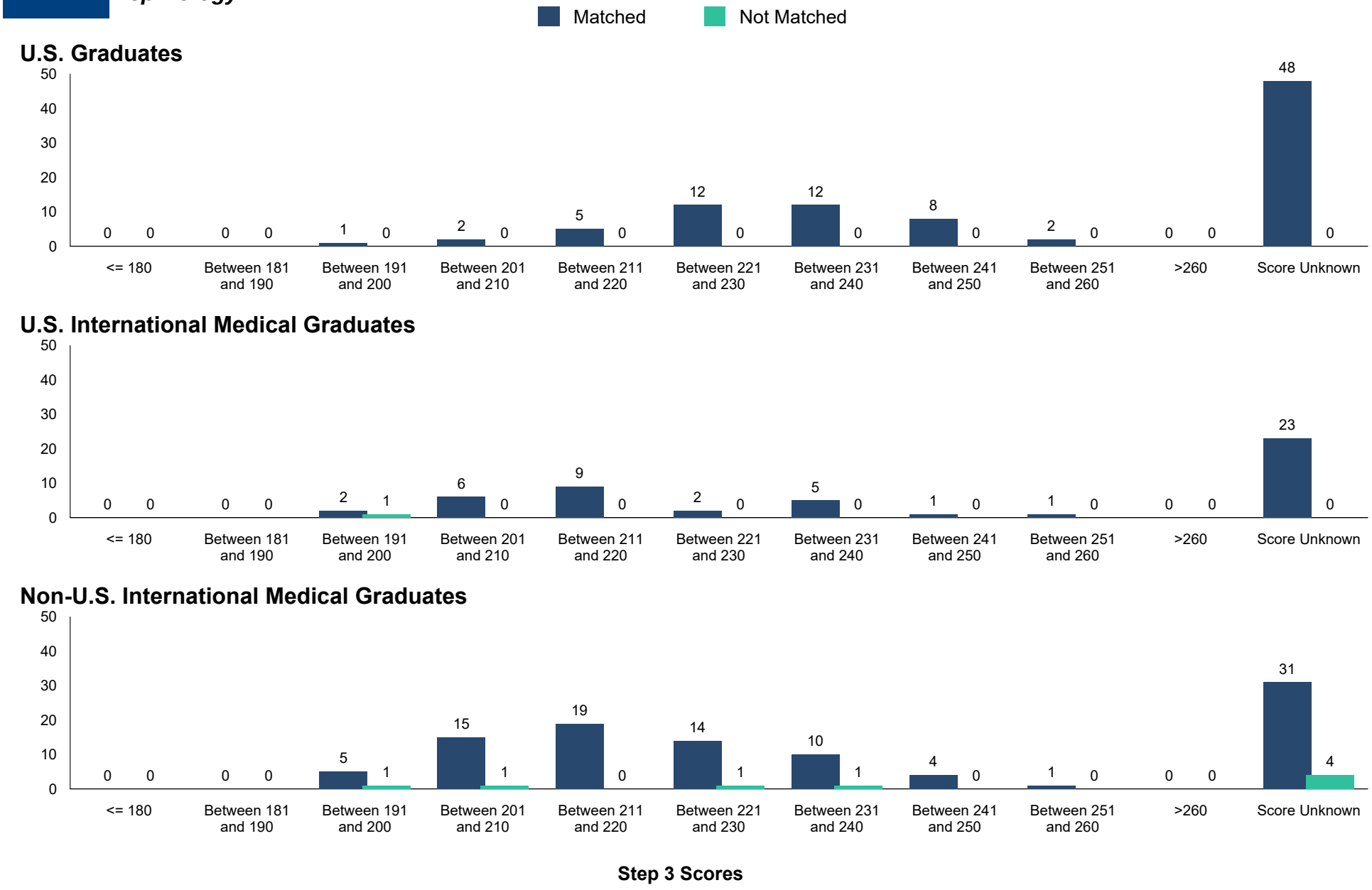
Chart-5 USMLE Step 3 Scores
Nephrology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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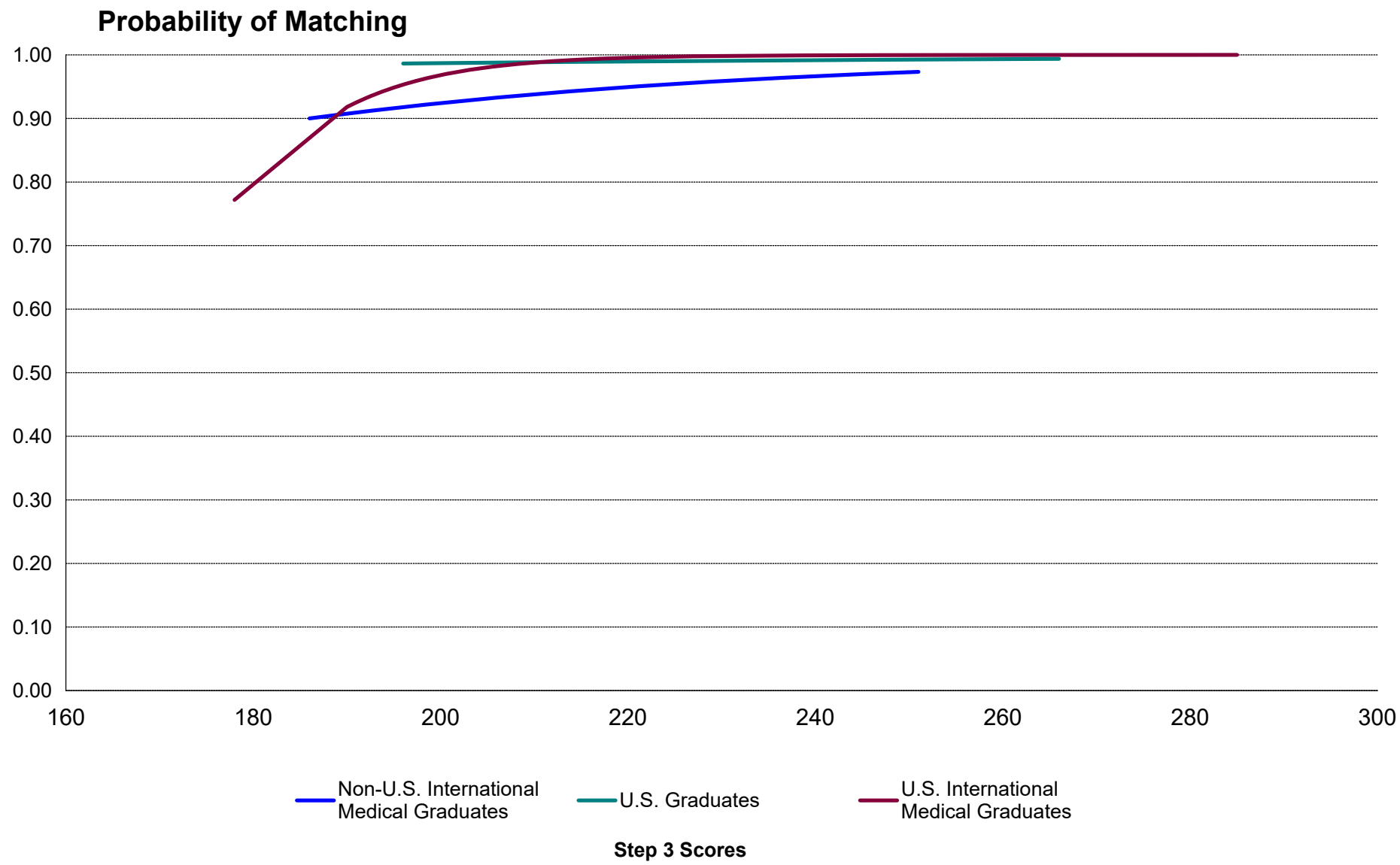
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Nephrology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects
Nephrology

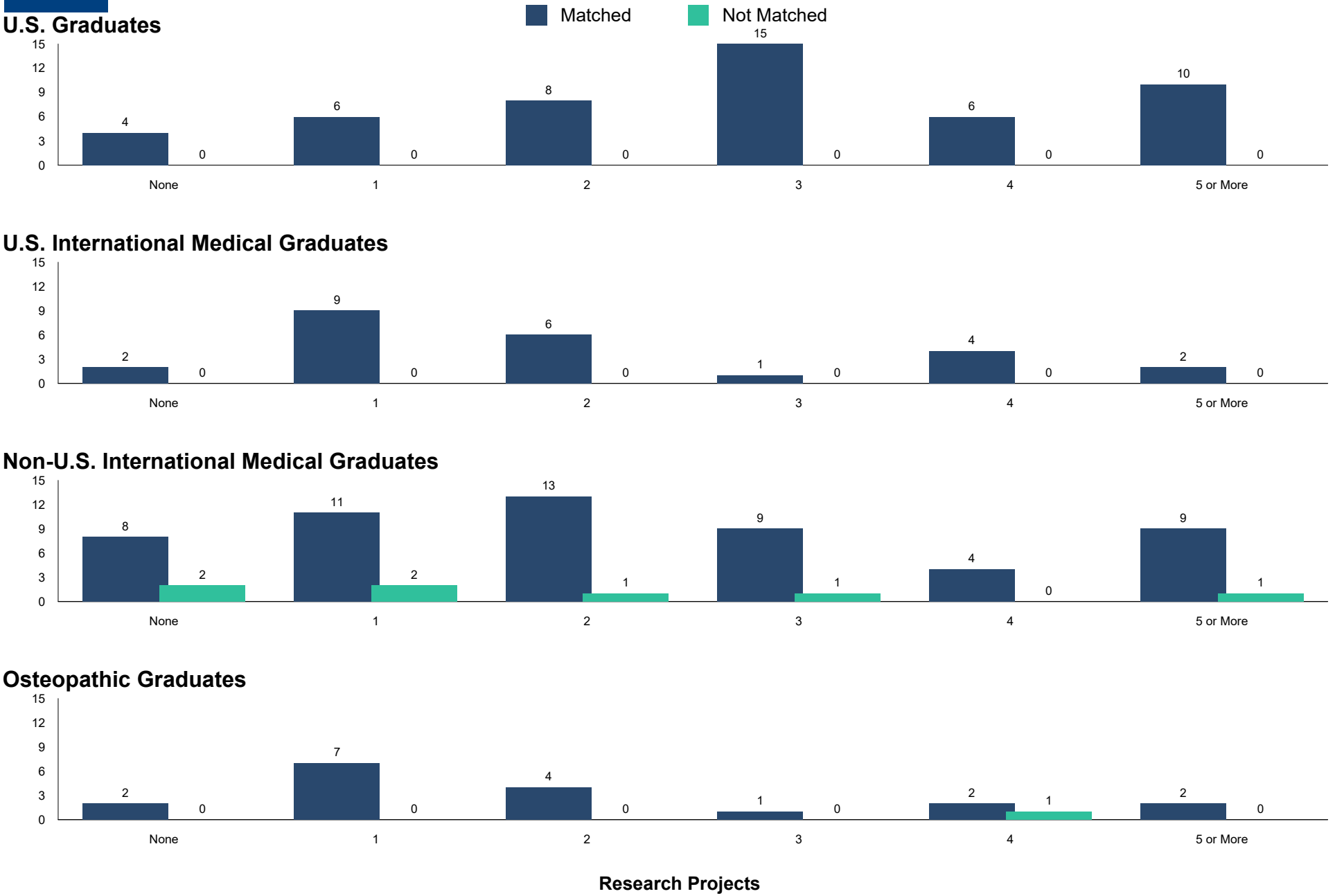

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Chart-7 Number of Abstracts, Presentations, and Publications

Nephrology

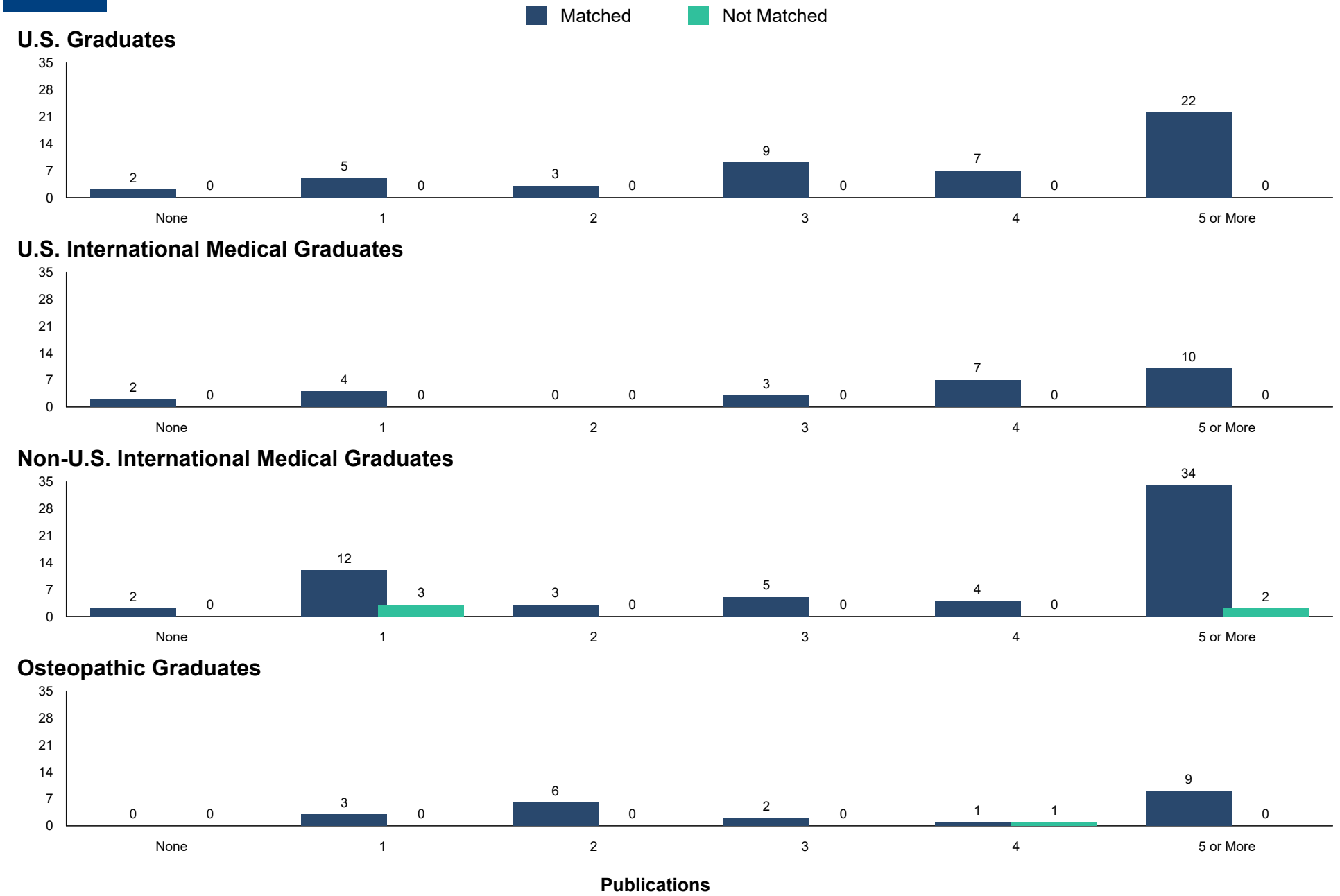

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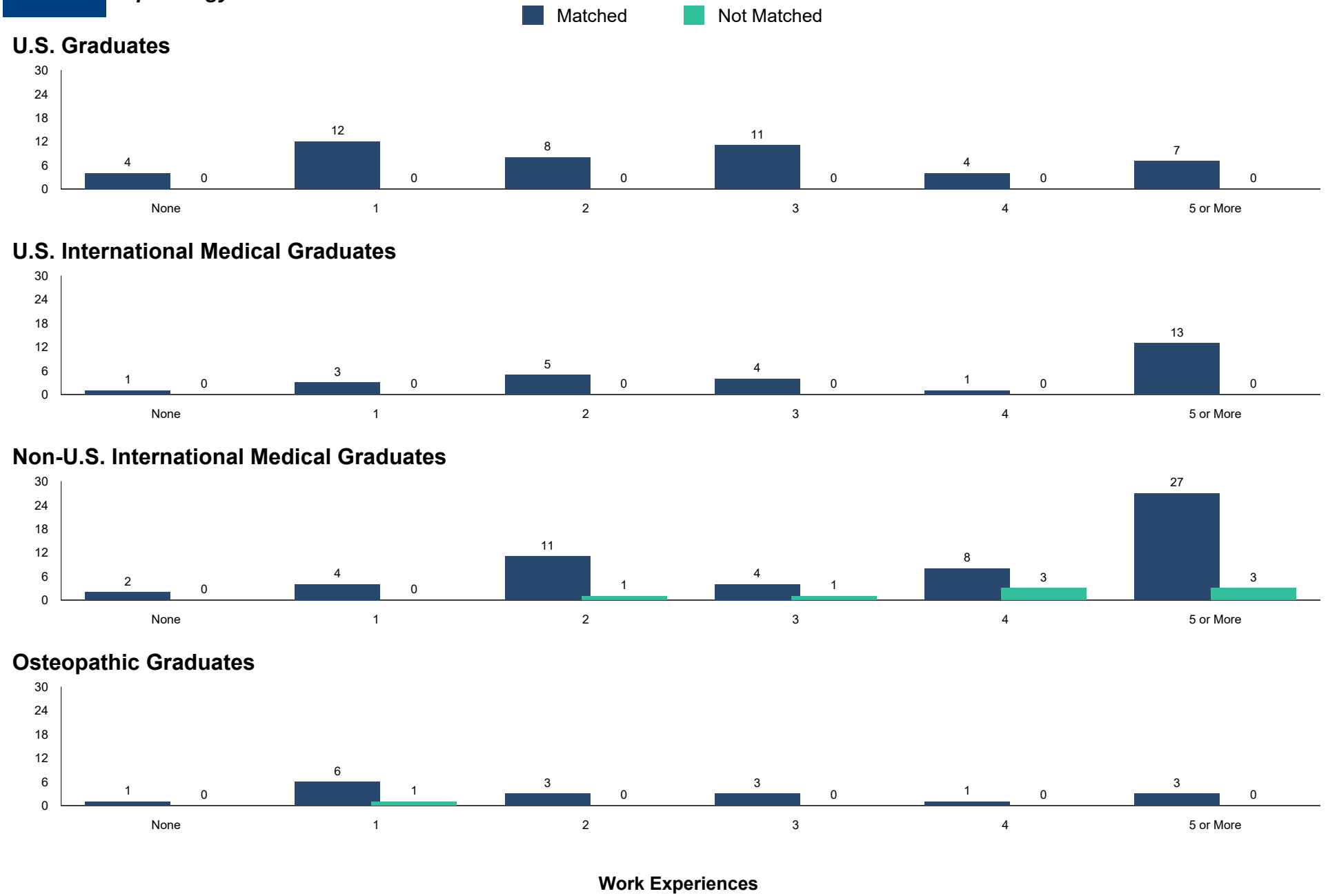
Chart-8 Number of Work Experiences
Nephrology



Source: NRMP Data Warehouse

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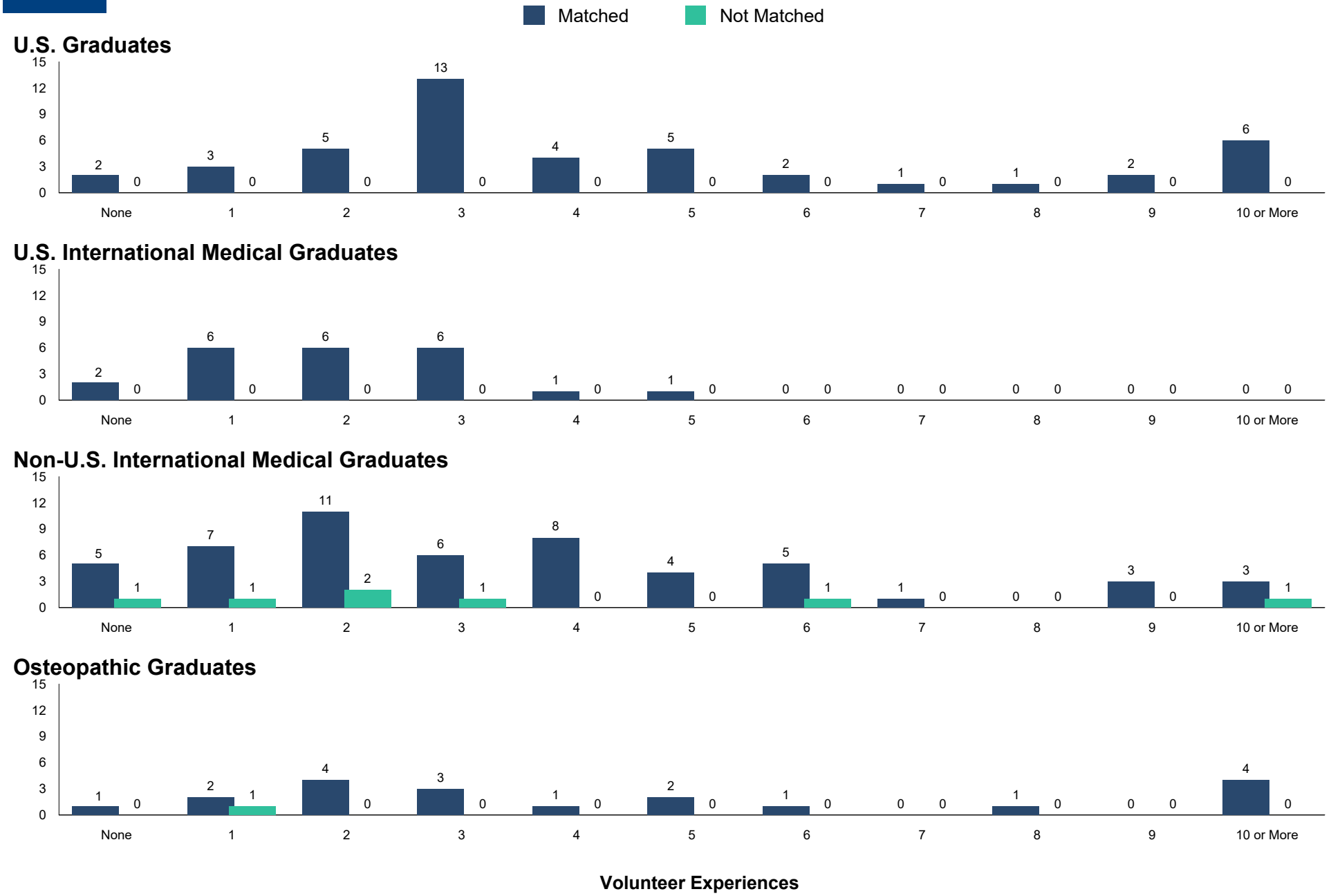
Chart-9 Number of Volunteer Experiences

Nephrology



Source: NRMP Data Warehouse

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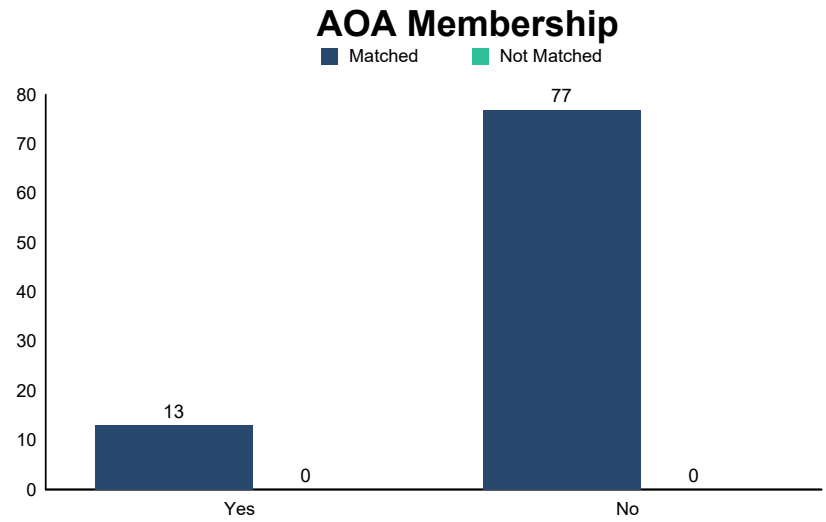
Chart-10 Percentage of U.S. Graduates Who are Members of AOA
Nephrology



Source: NRMP Data Warehouse

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Neuroradiology

Table-1 Summary Statistics
Neuroradiology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=128)	Unmatched (n=4)	Matched (n=9)	Unmatched (n=0)	Matched (n=13)	Unmatched (n=1)	Matched (n=11)	Unmatched (n=0)
1.	Mean number of contiguous ranks	5.9	3.0	8.3	n/a	3.2	4.0	8.1	n/a
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	n/a	1.1	1.0	1.0	n/a
3.	Mean USMLE Step 1 score	242	250	249	n/a	235	n/a	n/a	n/a
4.	Mean USMLE Step 2 score	247	260	256	n/a	247	n/a	n/a	n/a
5.	Mean USMLE Step 3 score	228	234	239	n/a	217	190	n/a	n/a
6.	Mean number of research experiences	23.2	n/a	5.0	n/a	6.8	3.0	3.5	n/a
7.	Mean number of abstracts, presentations, and publications	26.0	n/a	7.0	n/a	14.2	6.0	6.0	n/a
8.	Mean number of work experiences	32.4	n/a	n/a	n/a	3.6	2.0	2.8	n/a
9.	Mean number of volunteer experiences	25.2	n/a	4.0	n/a	3.0	1.0	3.8	n/a
10.	Percentage who are AOA members	14.8	0.0	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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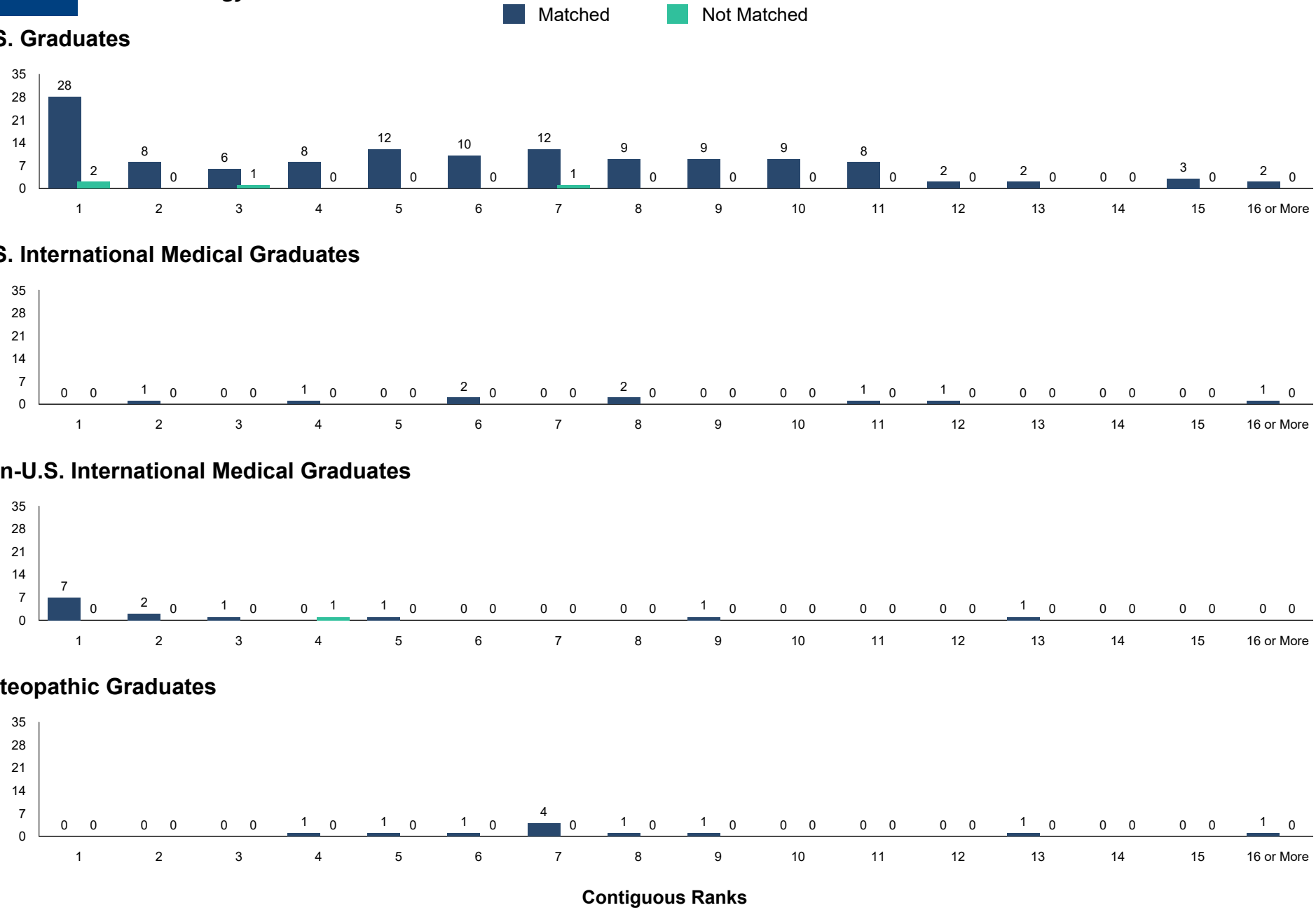
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Neuroradiology



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Neuroradiology

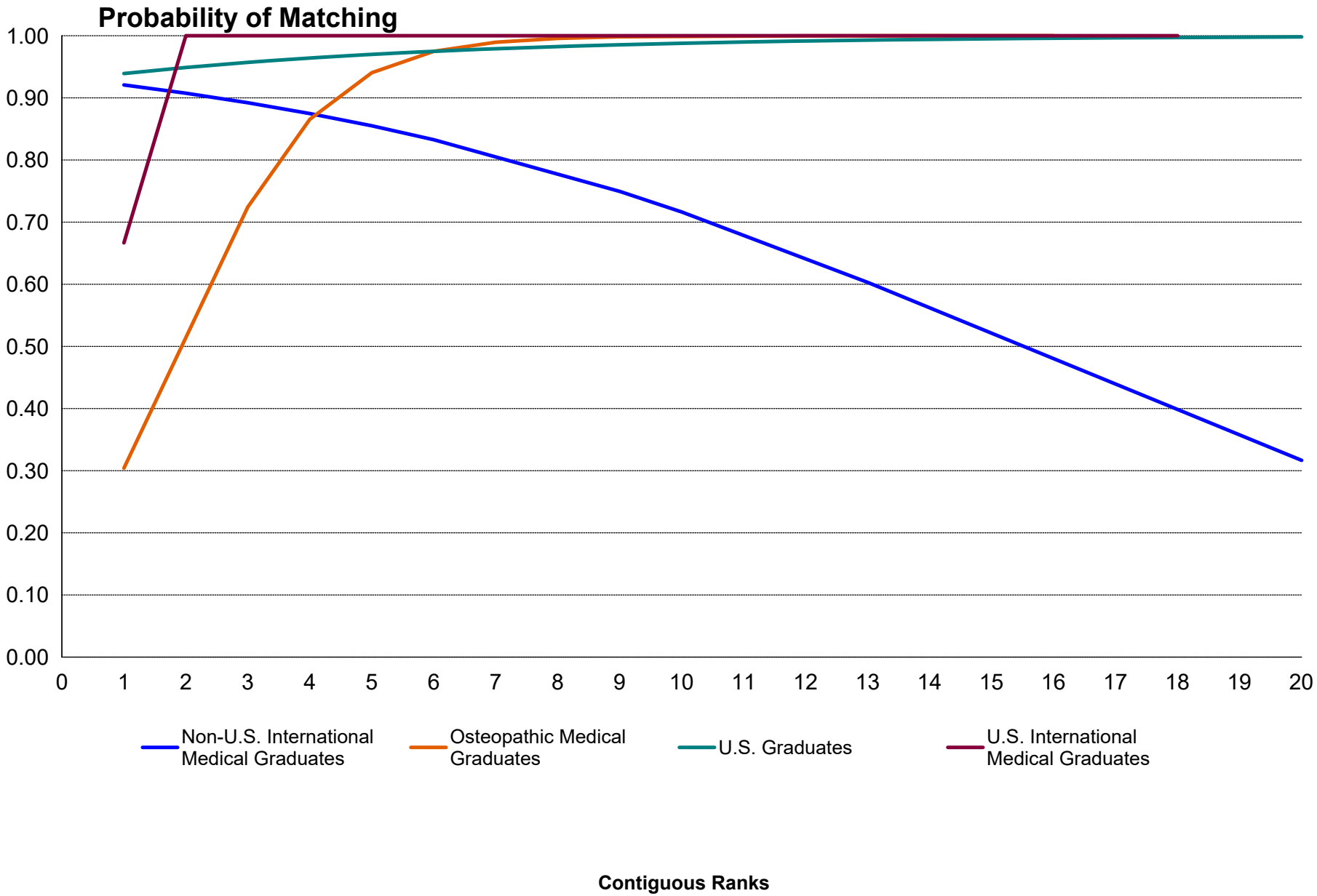

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Chart-2 Number of Distinct Specialties Ranked

Neuroradiology

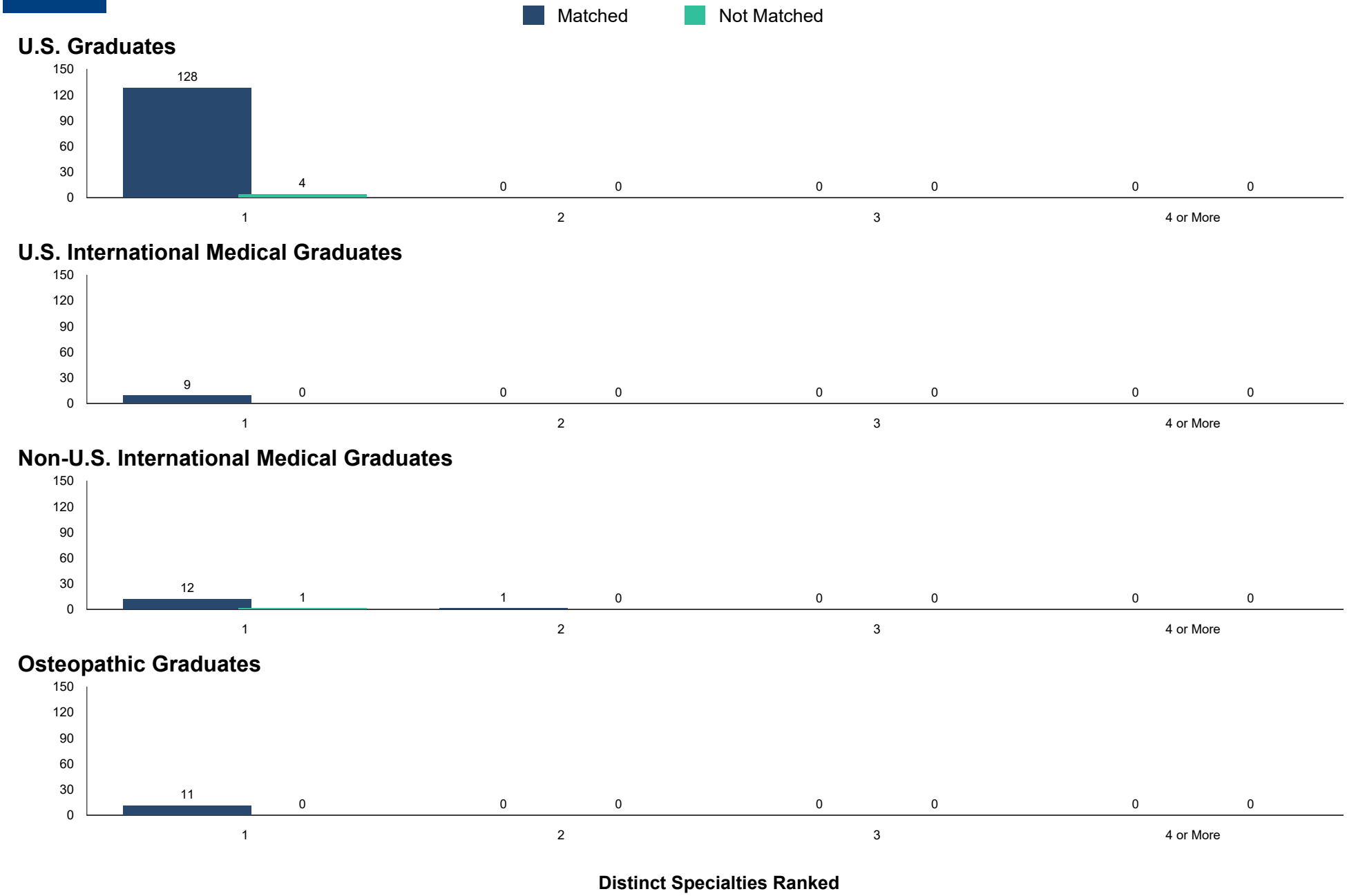

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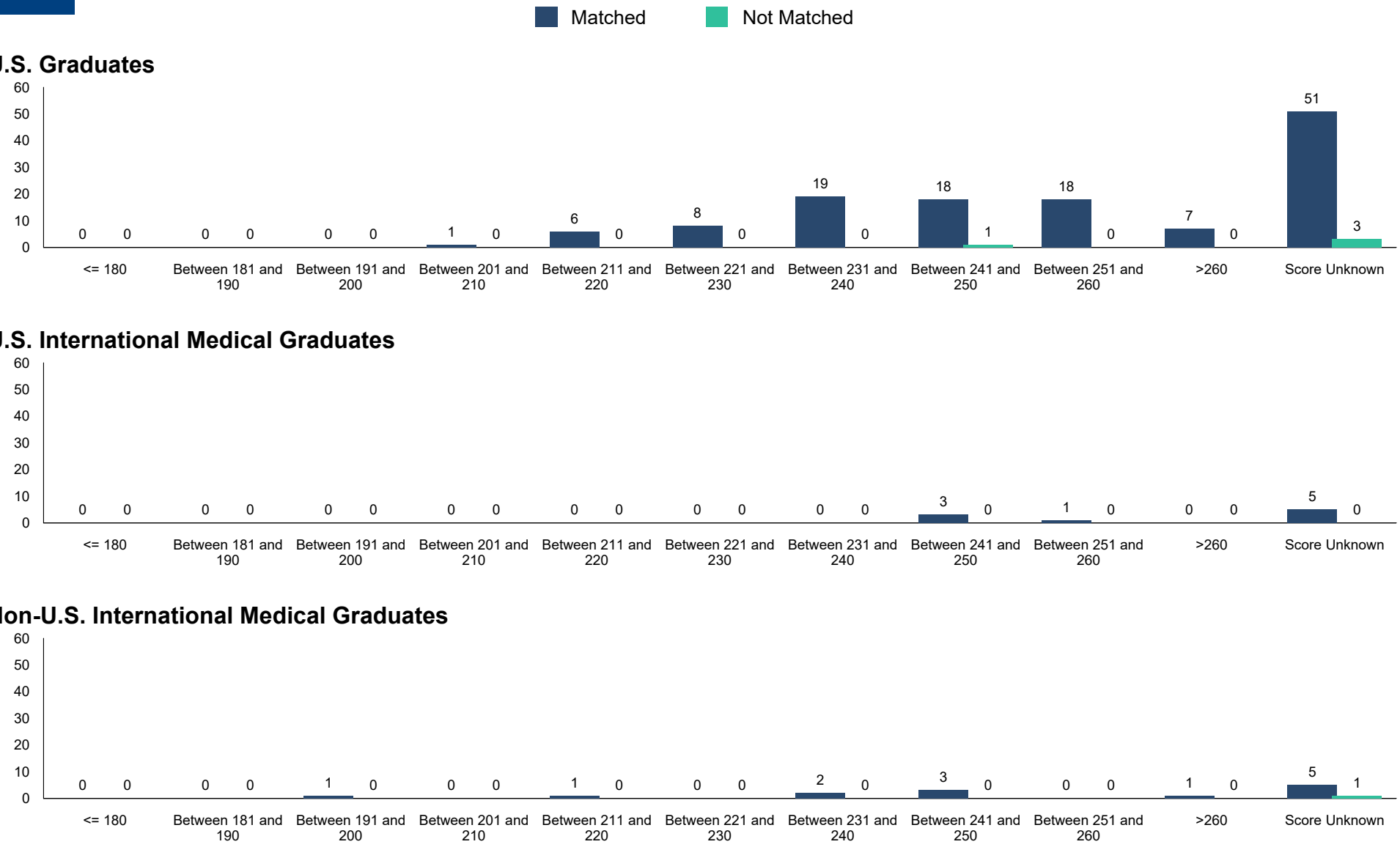
Chart-3 USMLE Step 1 Scores
Neuroradiology



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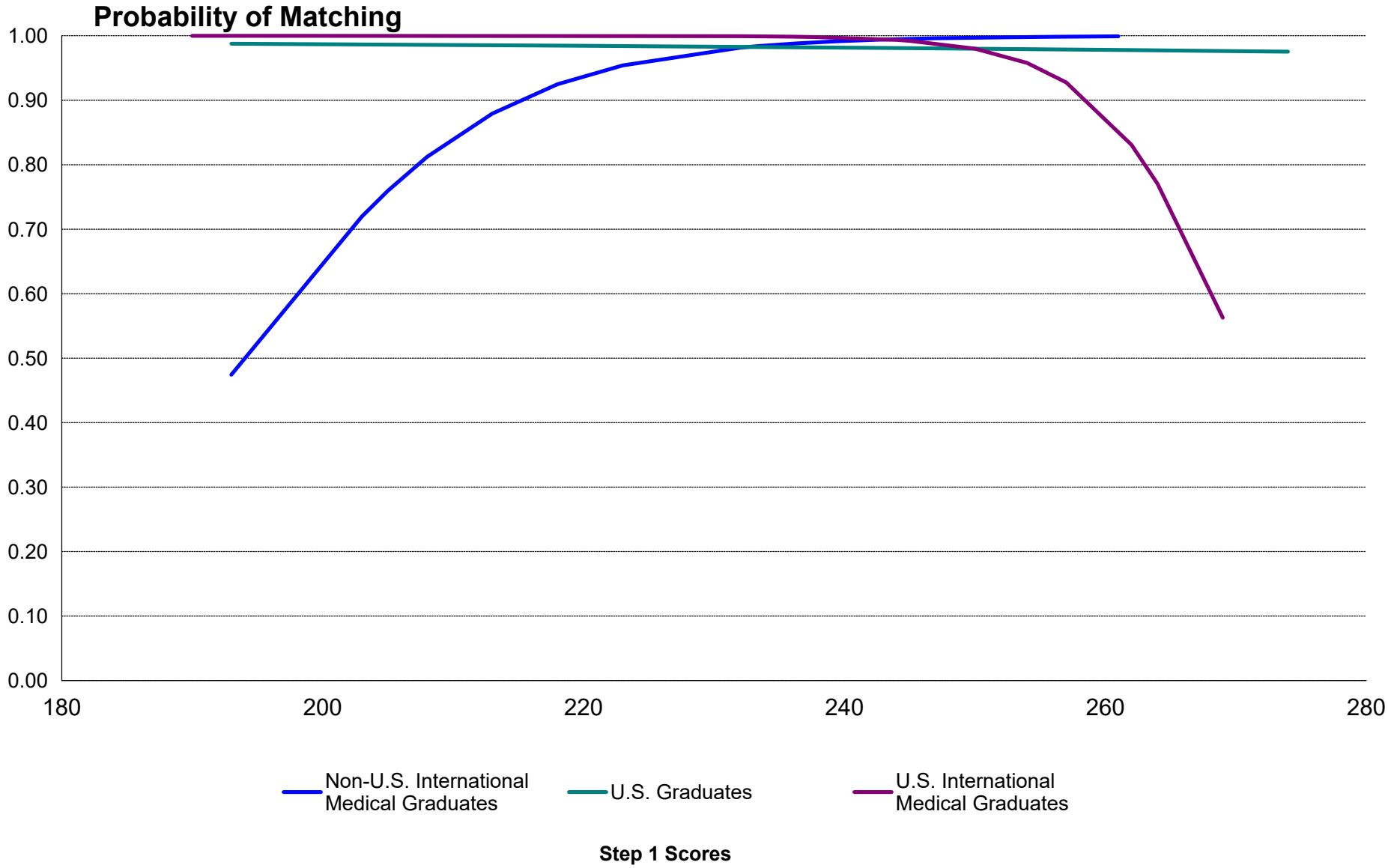
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Neuroradiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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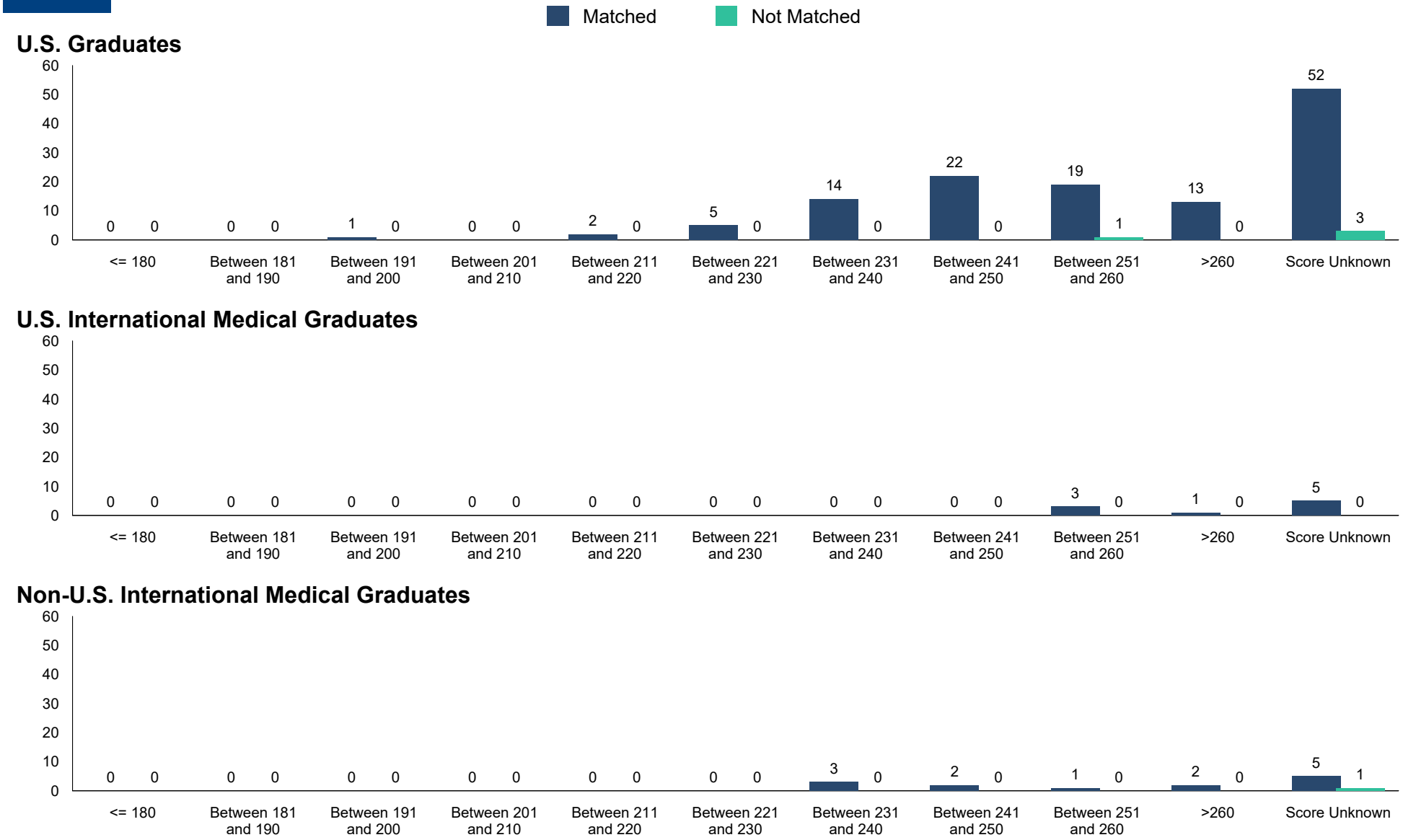
Chart-4 USMLE Step 2 Scores
Neuroradiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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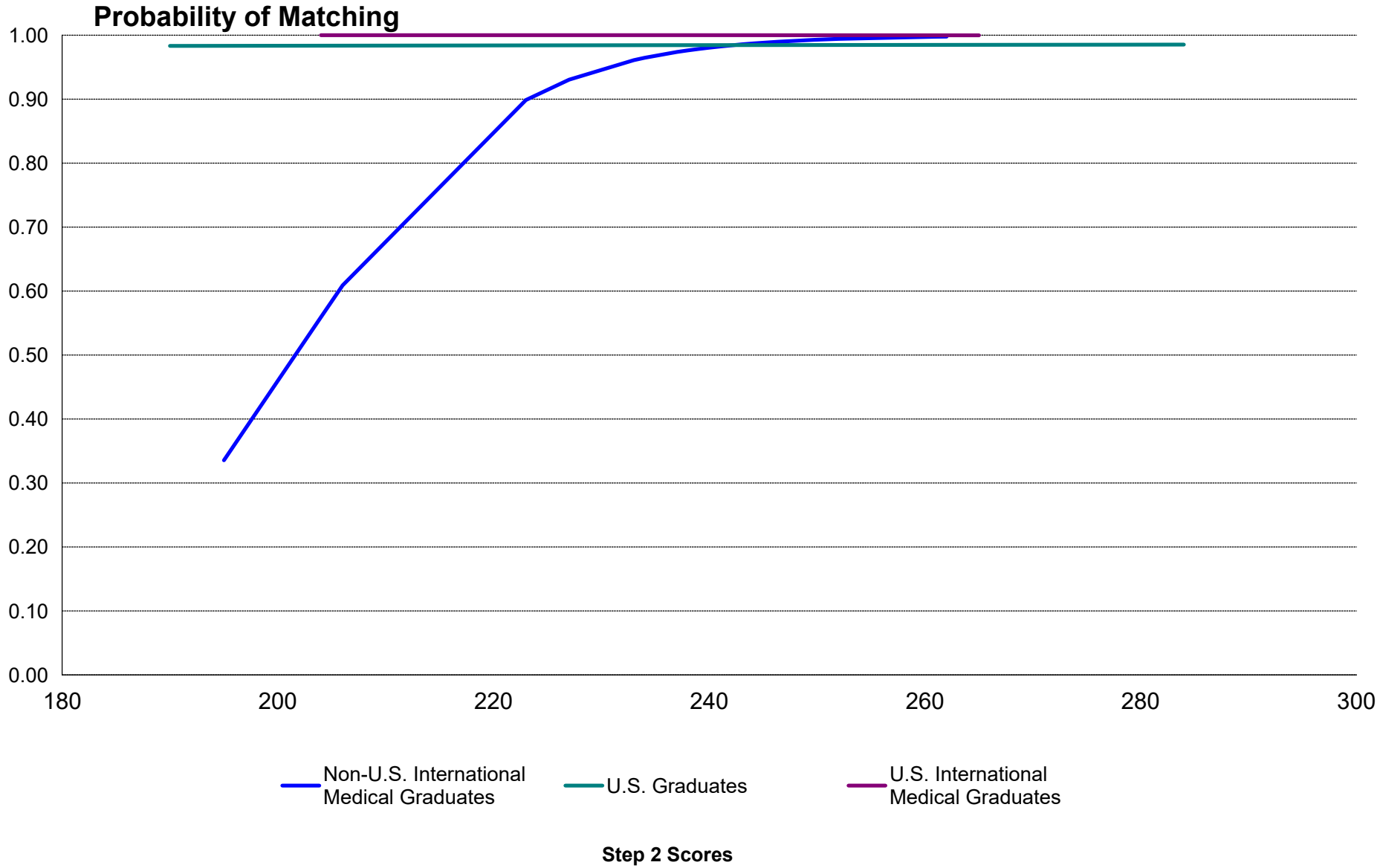
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Neuroradiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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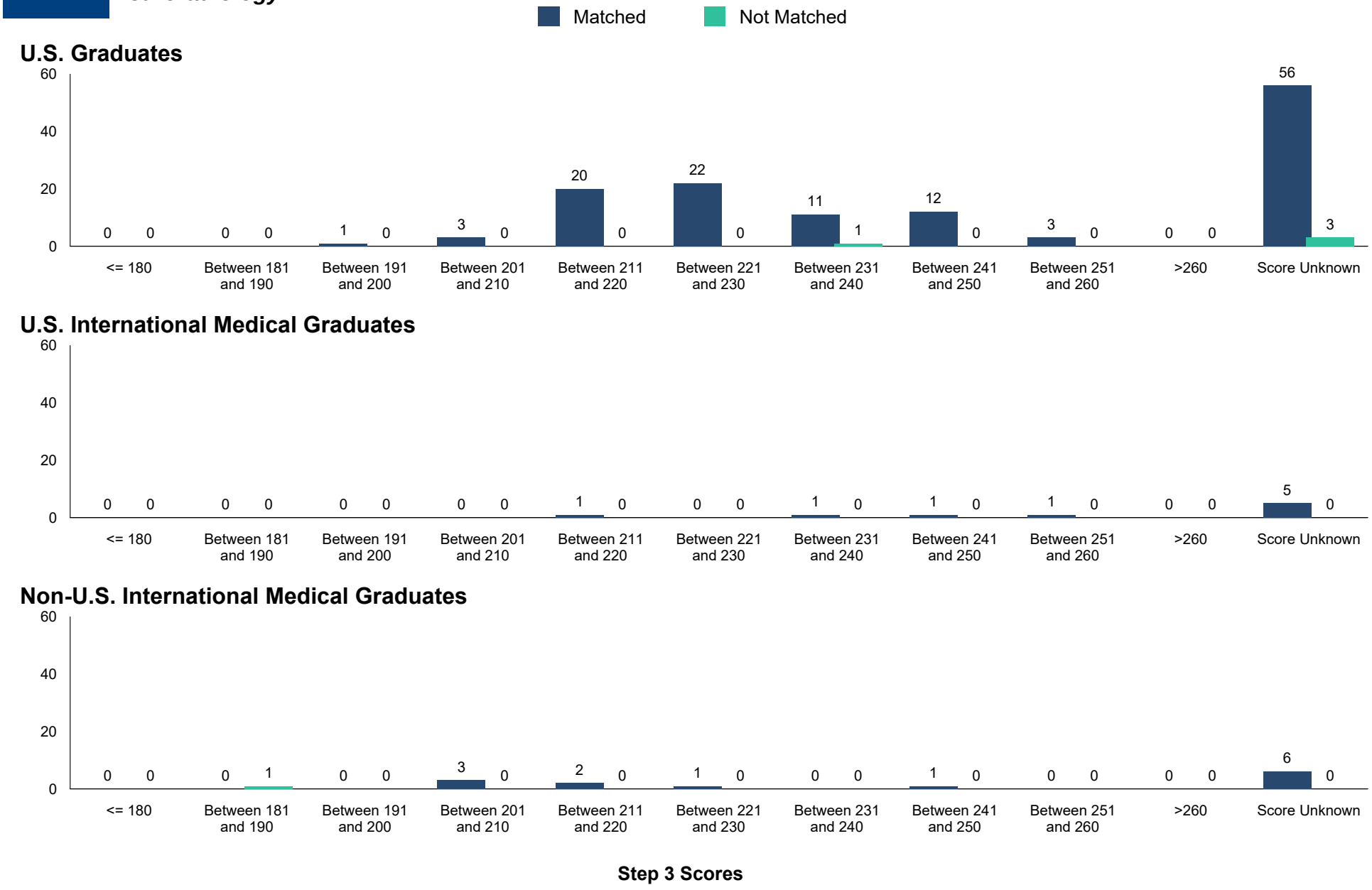
Chart-5 USMLE Step 3 Scores
Neuroradiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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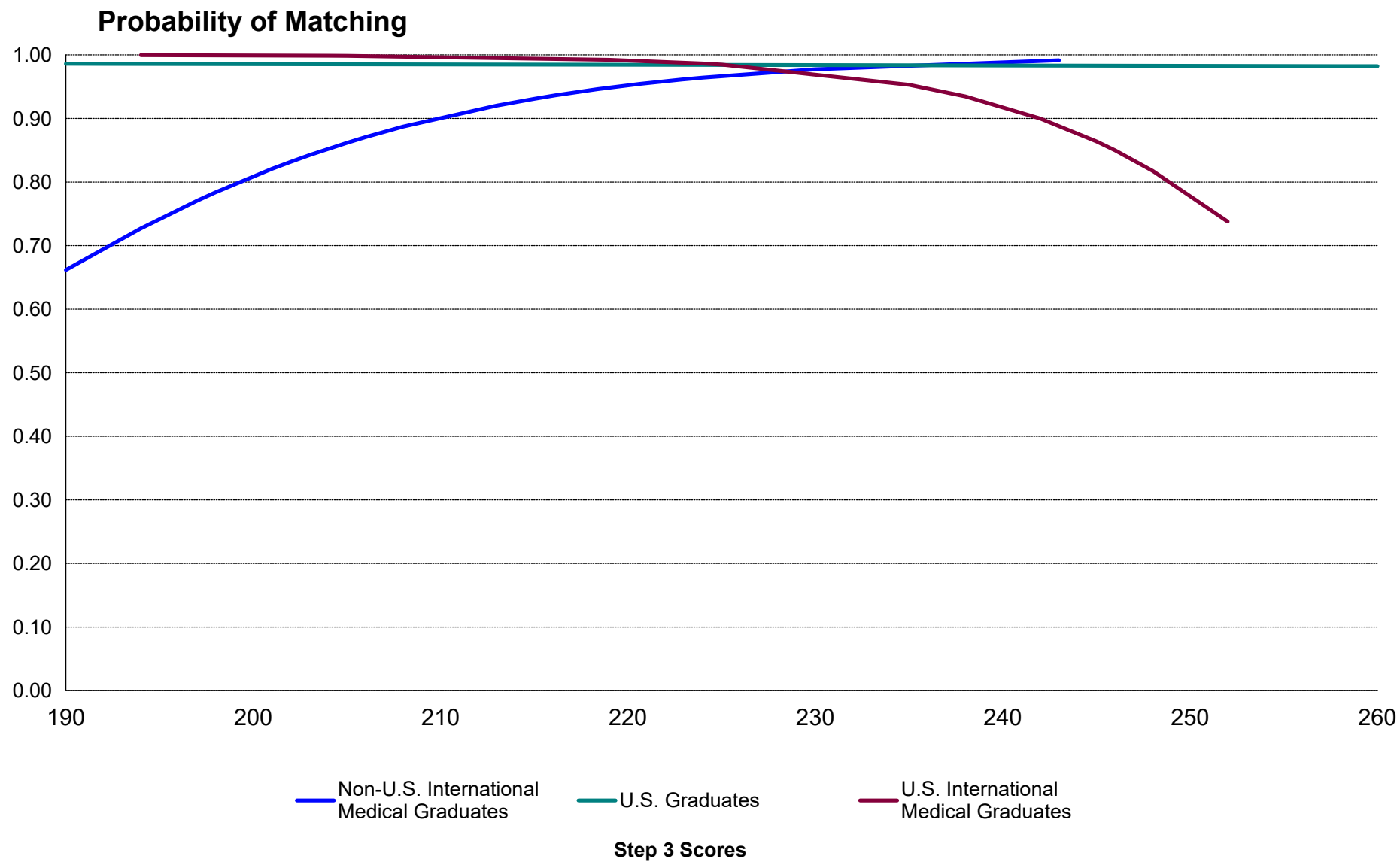
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Neuroradiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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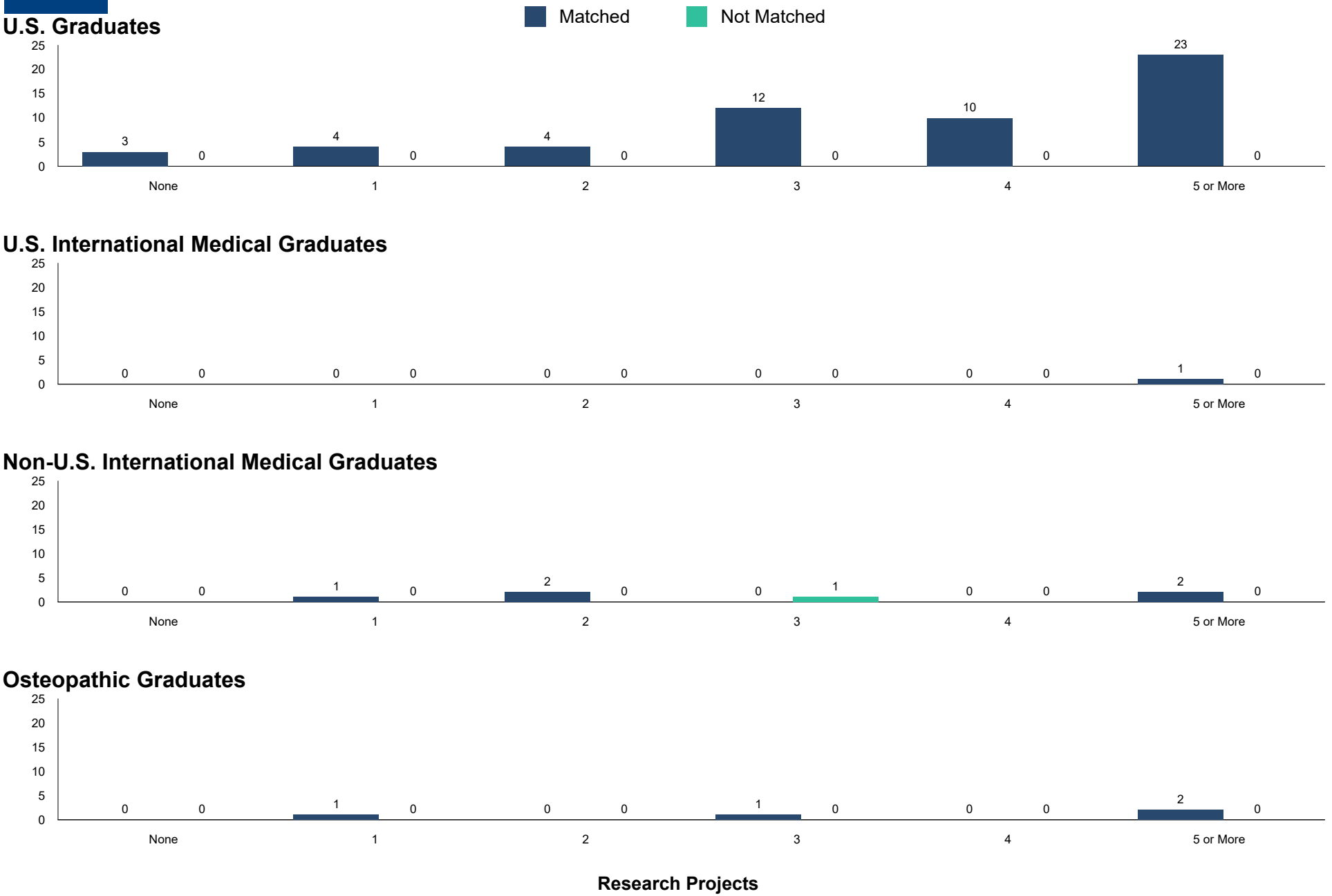
Chart-6 Number of Research Projects
Neuroradiology



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Neuroradiology

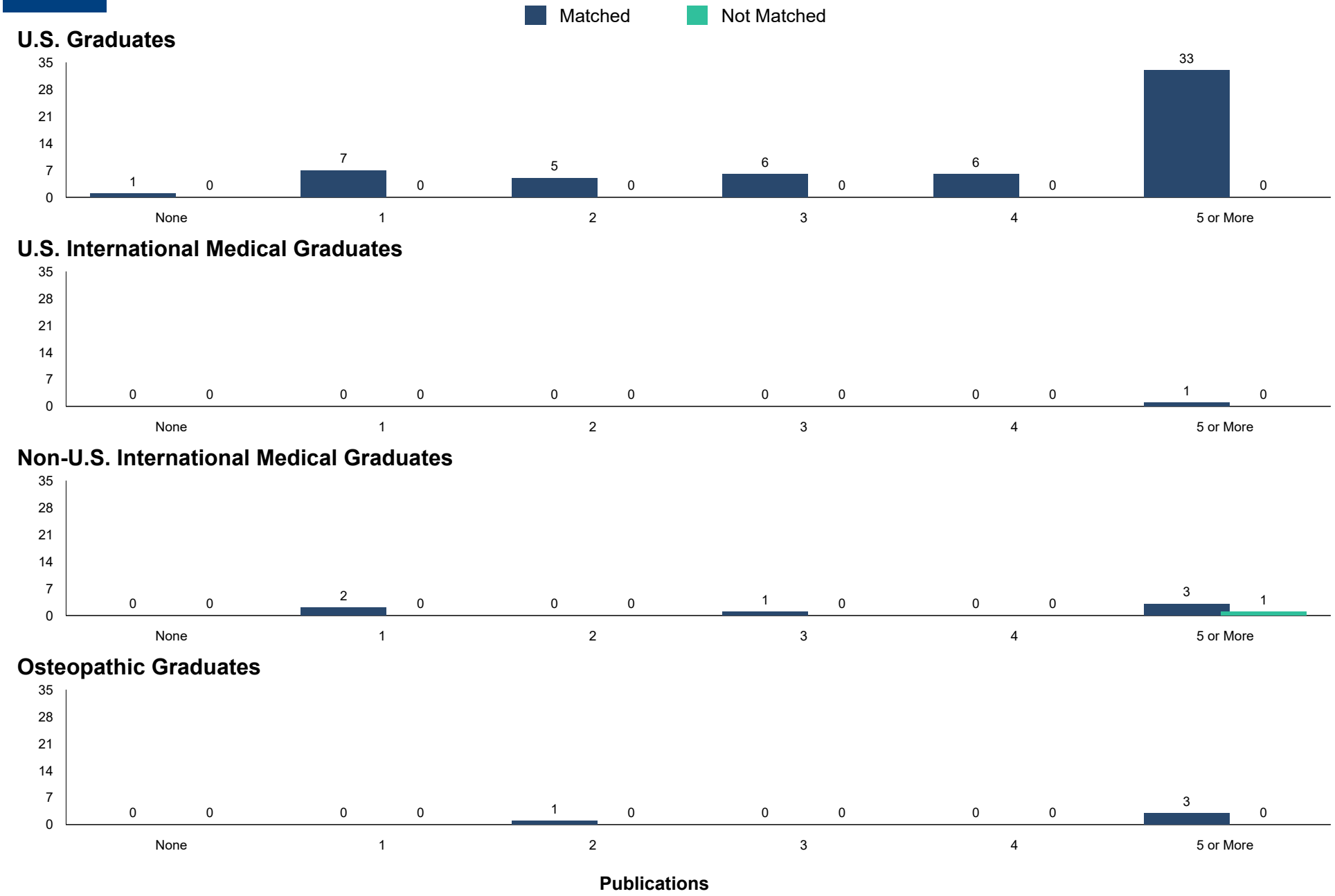

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Chart-8 Number of Work Experiences
Neuroradiology

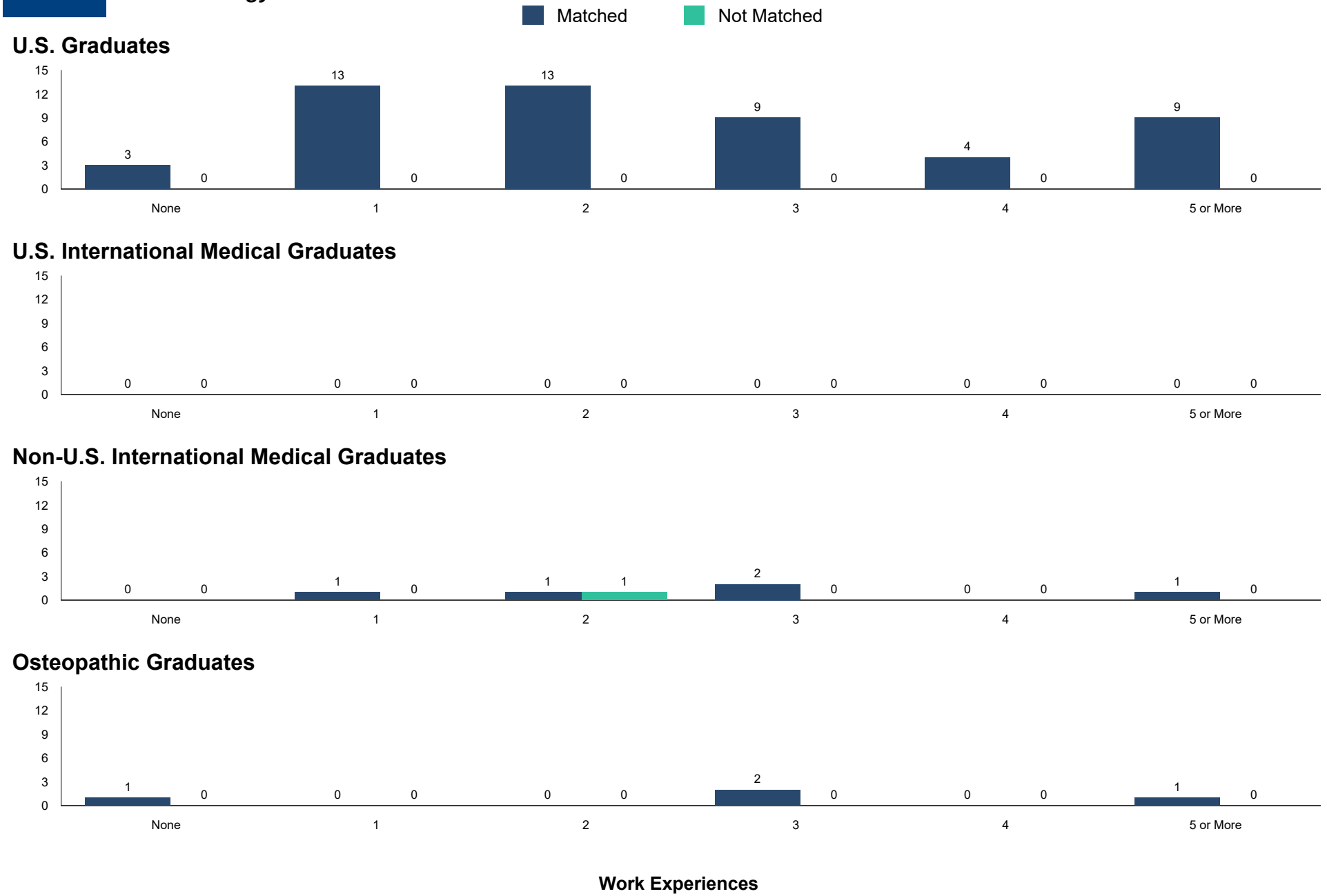

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Chart-9 Number of Volunteer Experiences

Neuroradiology

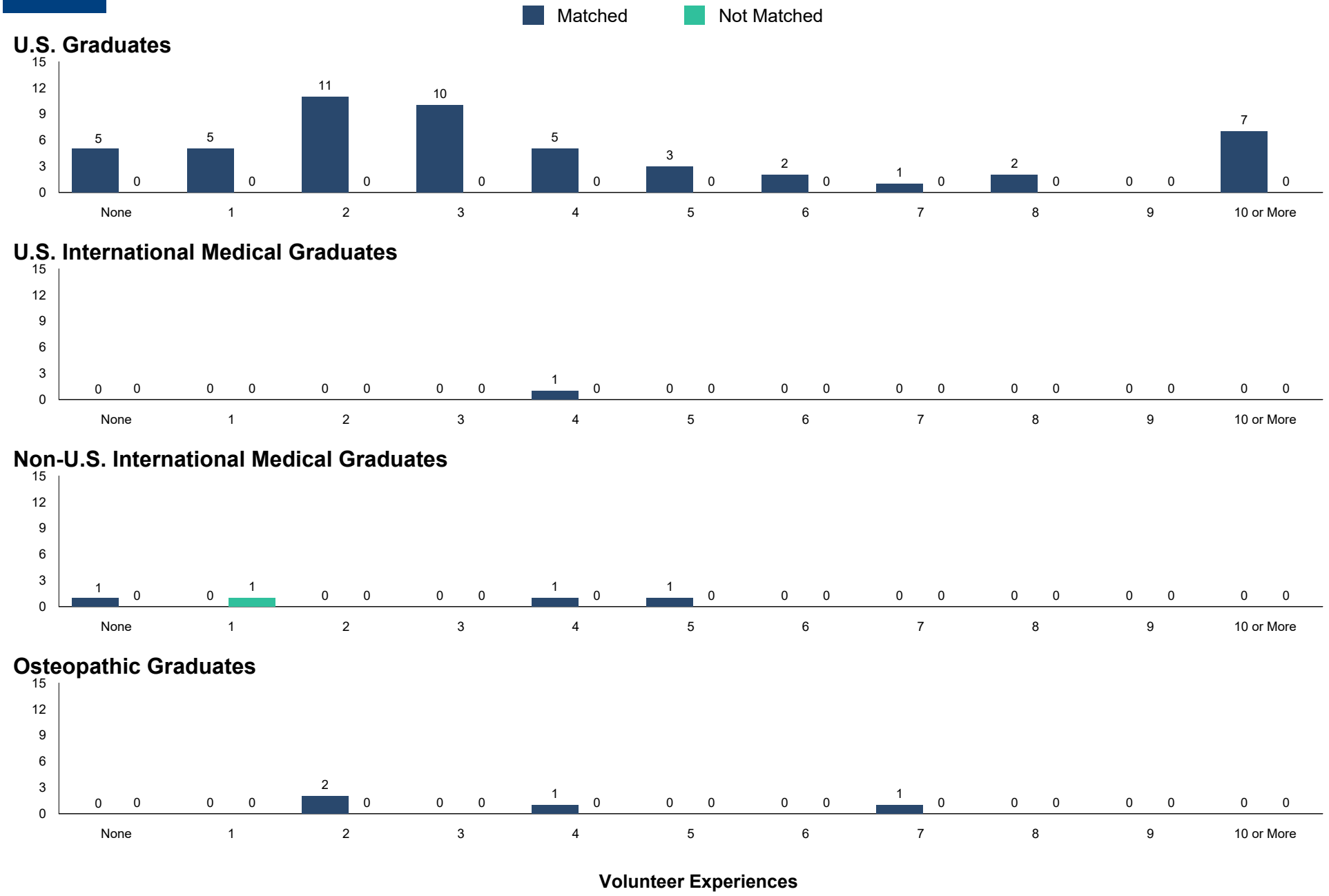

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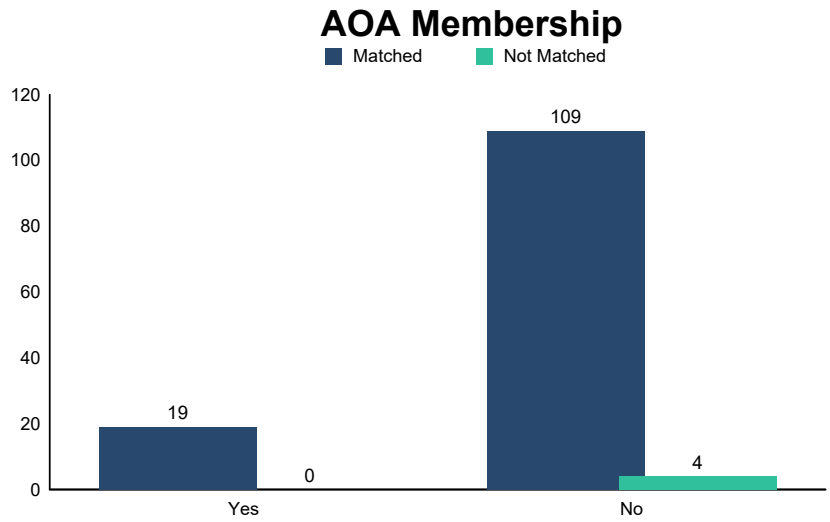
Chart-10 Percentage of U.S. Graduates Who are Members of AOA
Neuroradiology



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Pain Medicine

Table-1 Summary Statistics
Pain Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=231)	Unmatched (n=56)	Matched (n=27)	Unmatched (n=16)	Matched (n=24)	Unmatched (n=9)	Matched (n=48)	Unmatched (n=25)
1.	Mean number of contiguous ranks	6.3	3.4	6.1	3.1	4.9	2.1	5.1	4.2
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	230	221	234	227	228	221	n/a	n/a
4.	Mean USMLE Step 2 score	240	229	239	228	232	229	n/a	n/a
5.	Mean USMLE Step 3 score	223	211	216	205	211	213	n/a	n/a
6.	Mean number of research experiences	4.3	3.5	3.1	5.0	3.9	7.0	2.5	3.0
7.	Mean number of abstracts, presentations, and publications	6.8	5.1	13.4	8.8	16.4	5.8	5.6	3.6
8.	Mean number of work experiences	4.2	3.9	3.4	2.8	3.0	4.0	3.1	4.2
9.	Mean number of volunteer experiences	5.3	5.2	4.6	2.7	2.4	1.2	5.8	3.8
10.	Percentage who are AOA members	8.7	1.8	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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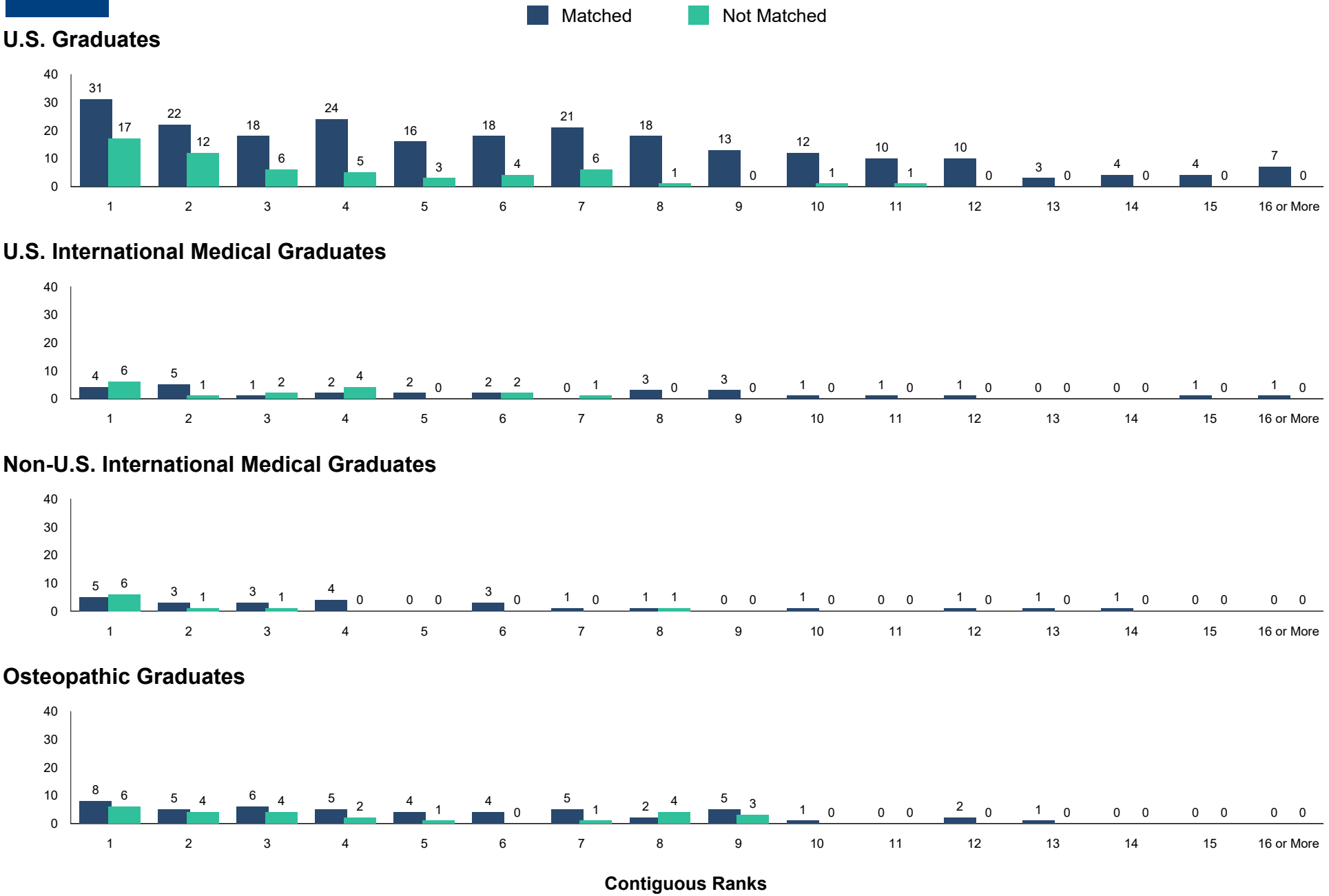
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Pain Medicine



Source: NRMP Data Warehouse

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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pain Medicine

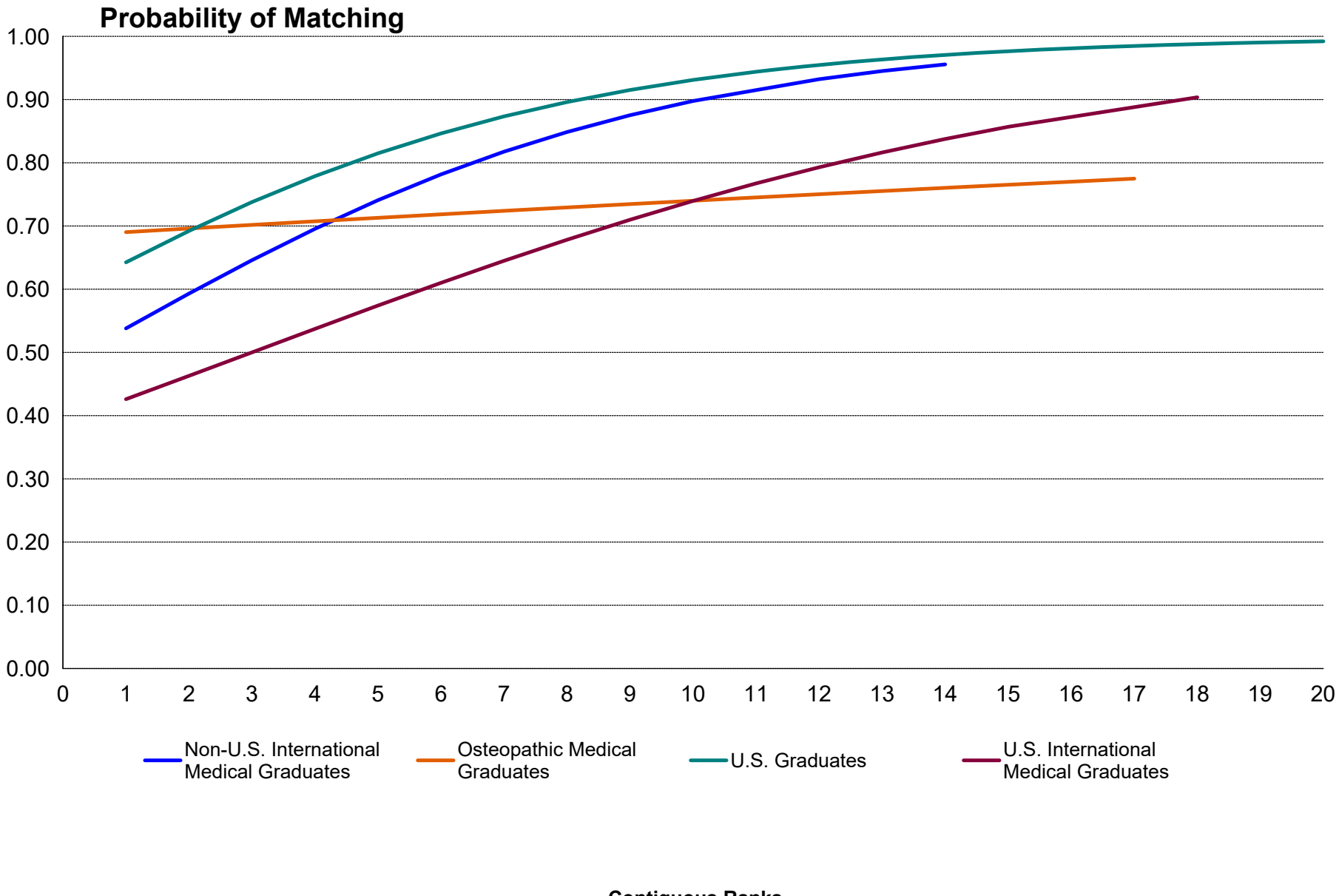

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Chart-2 Number of Distinct Specialties Ranked

Pain Medicine

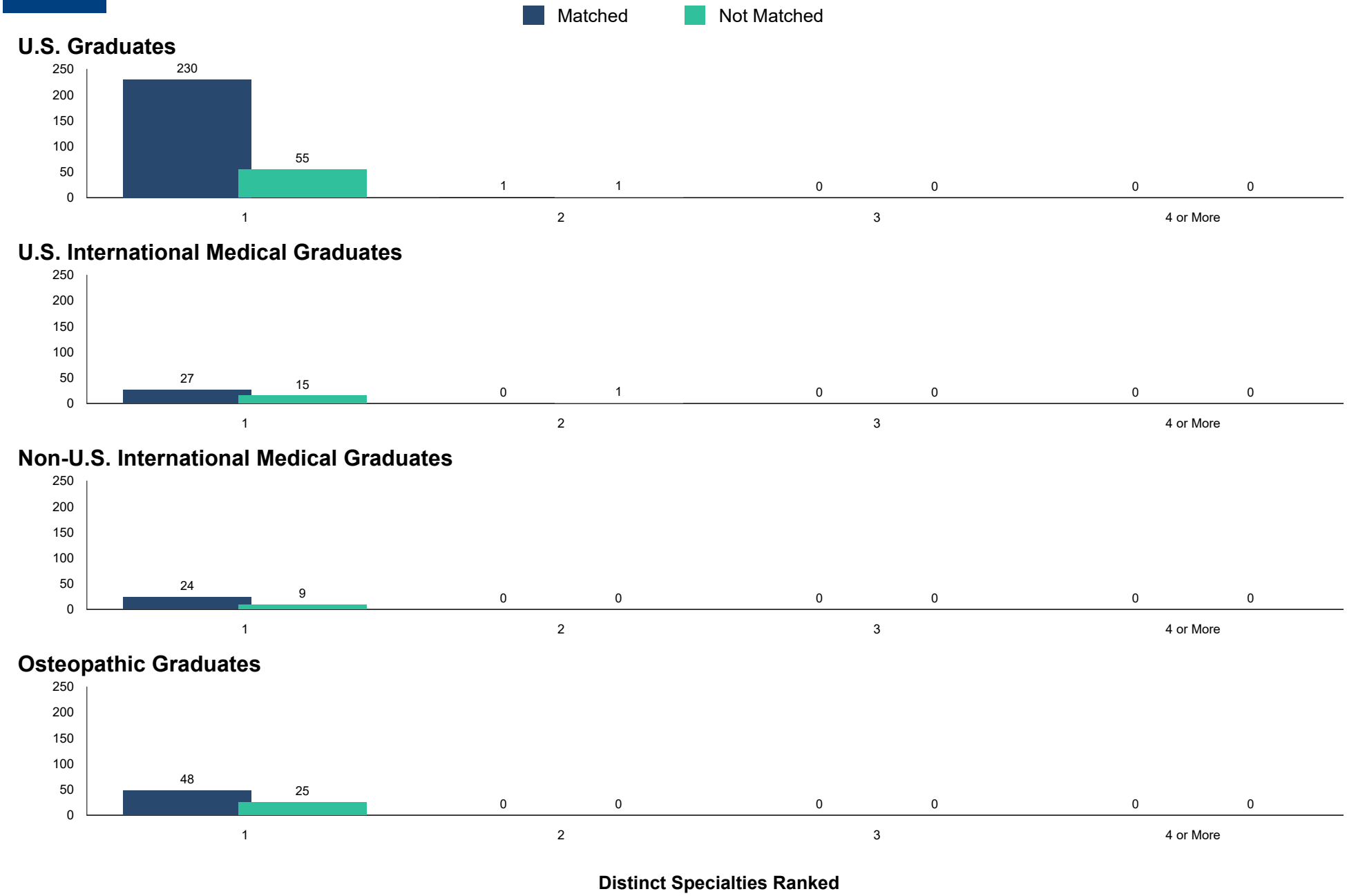

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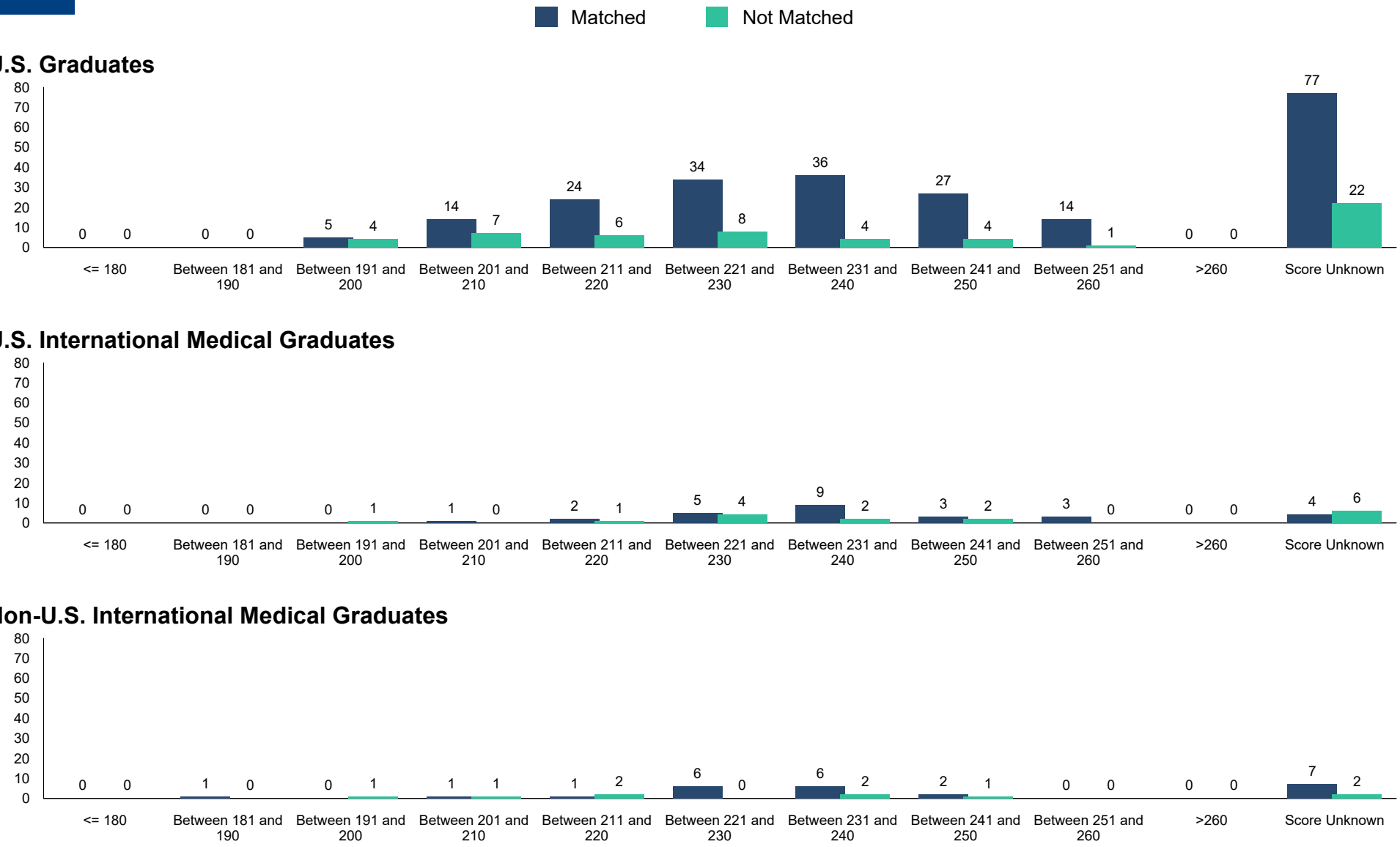
Chart-3 USMLE Step 1 Scores
Pain Medicine



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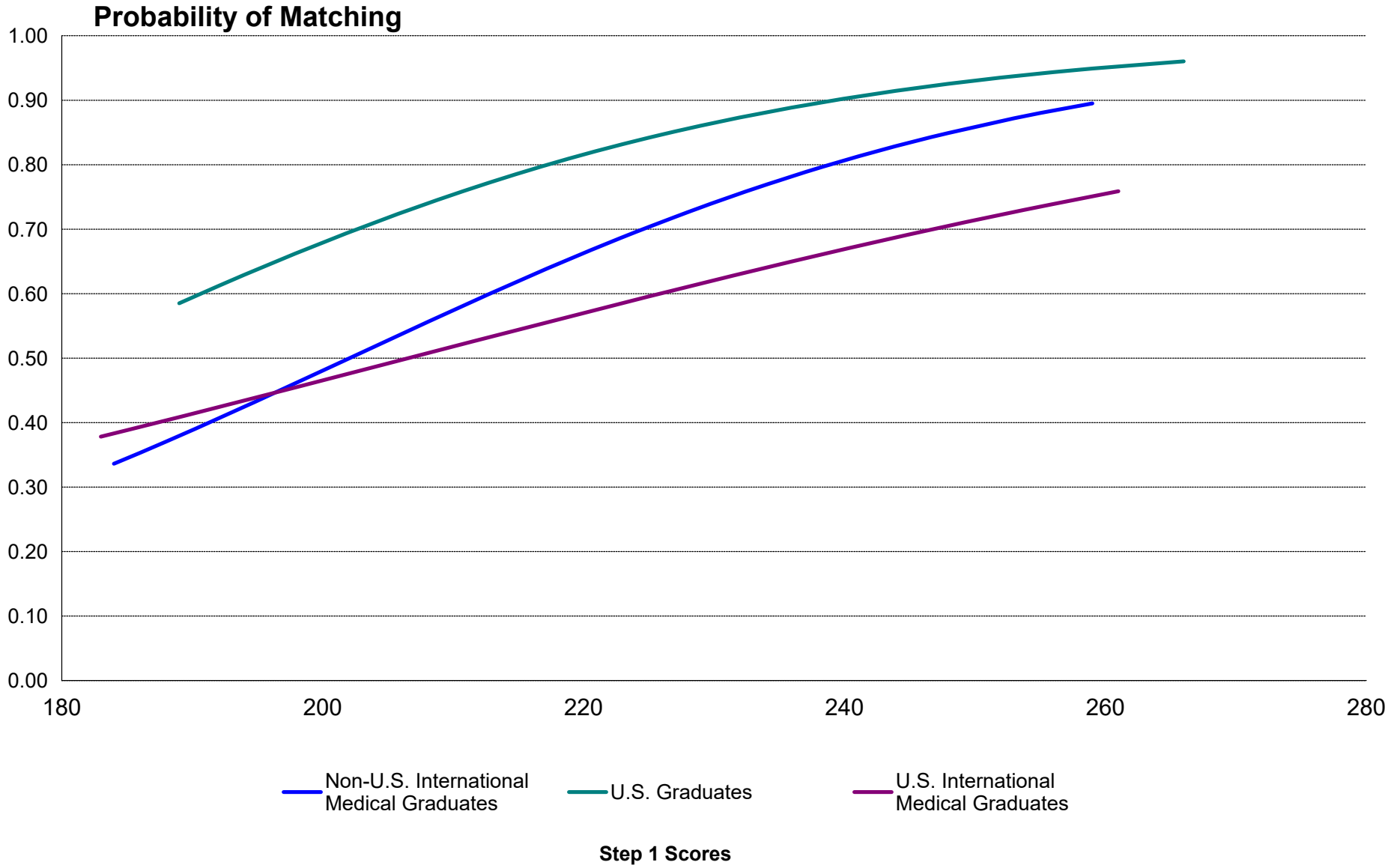
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pain Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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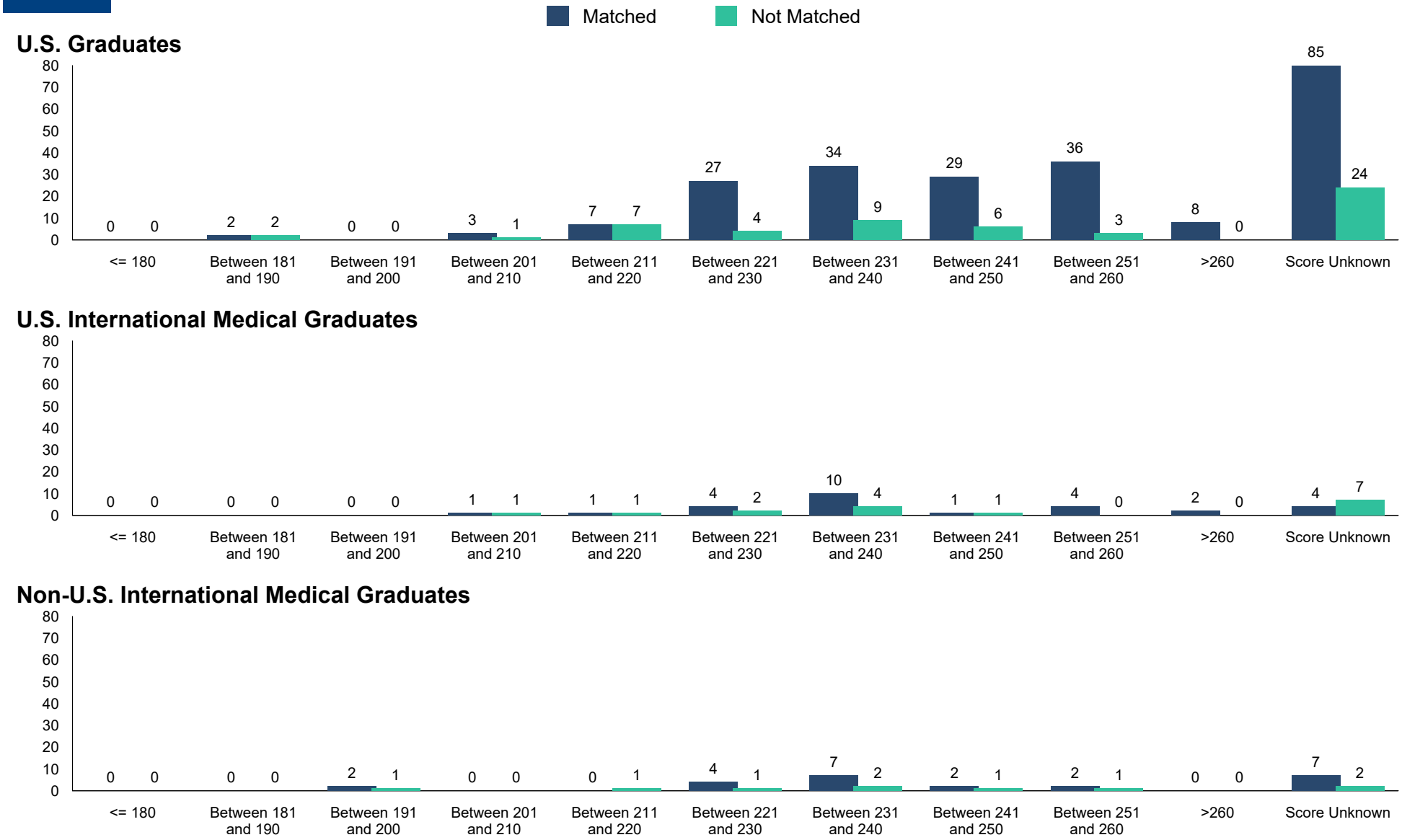
Chart-4 USMLE Step 2 Scores
Pain Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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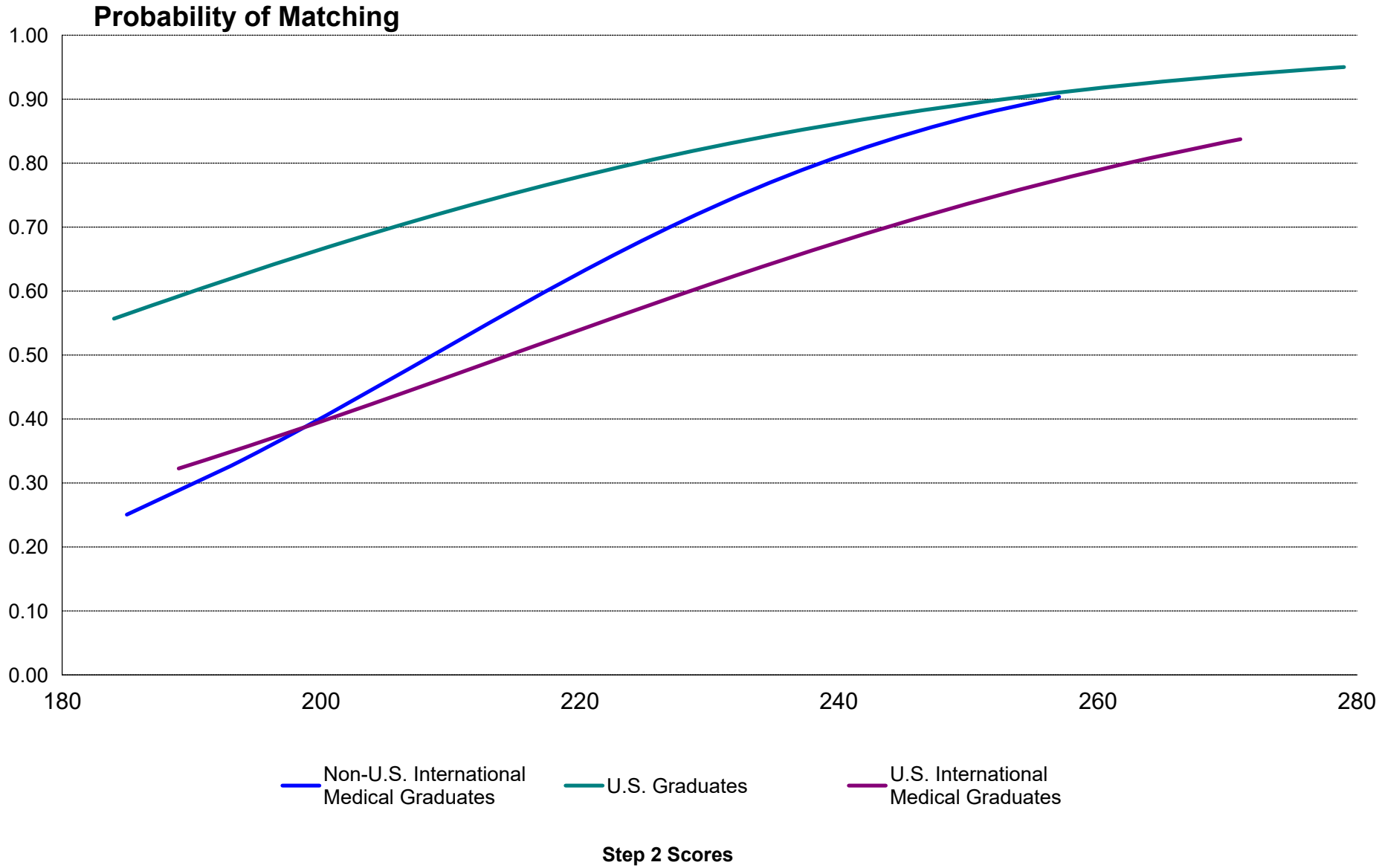
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Pain Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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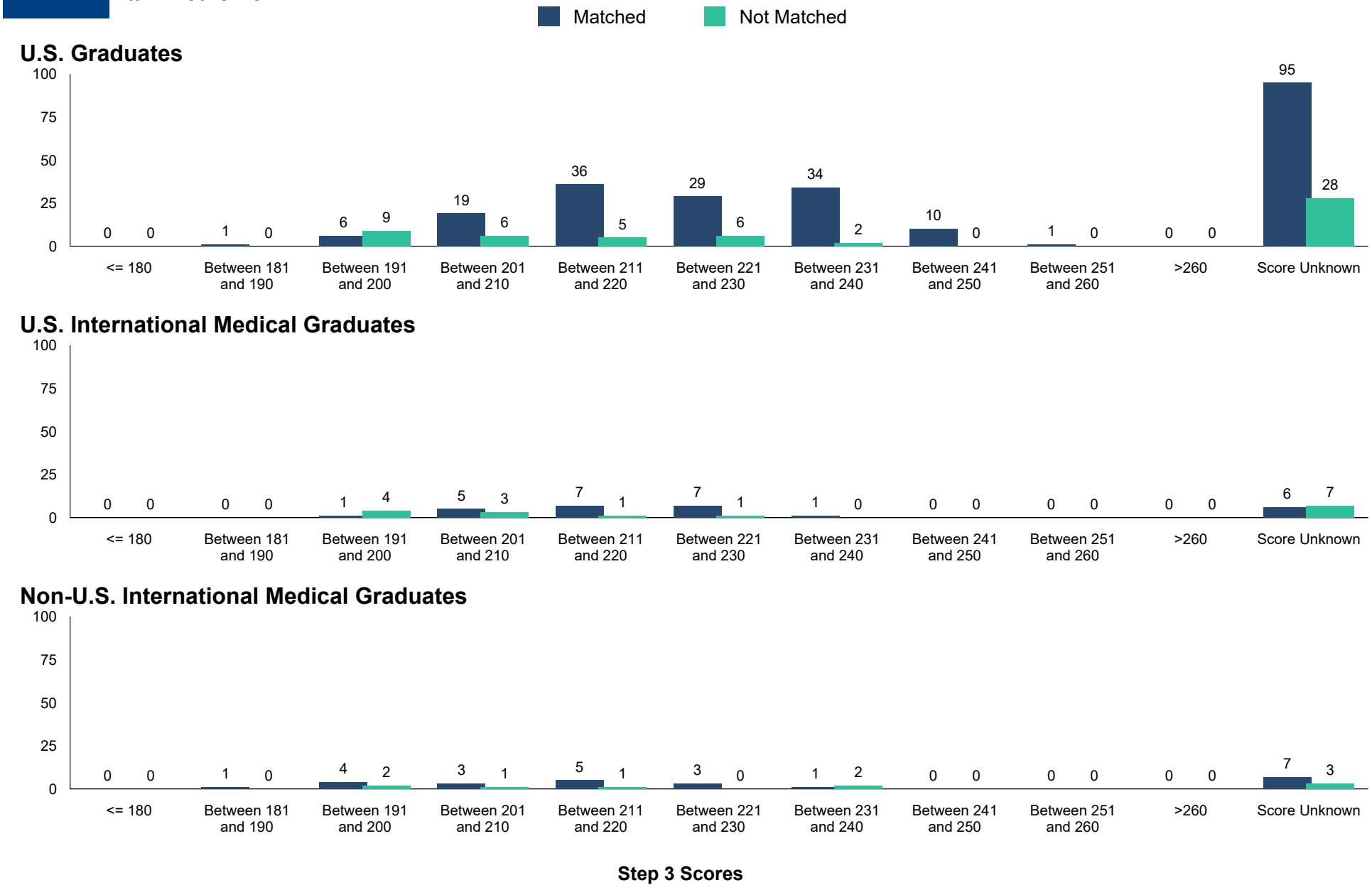
Chart-5 USMLE Step 3 Scores
Pain Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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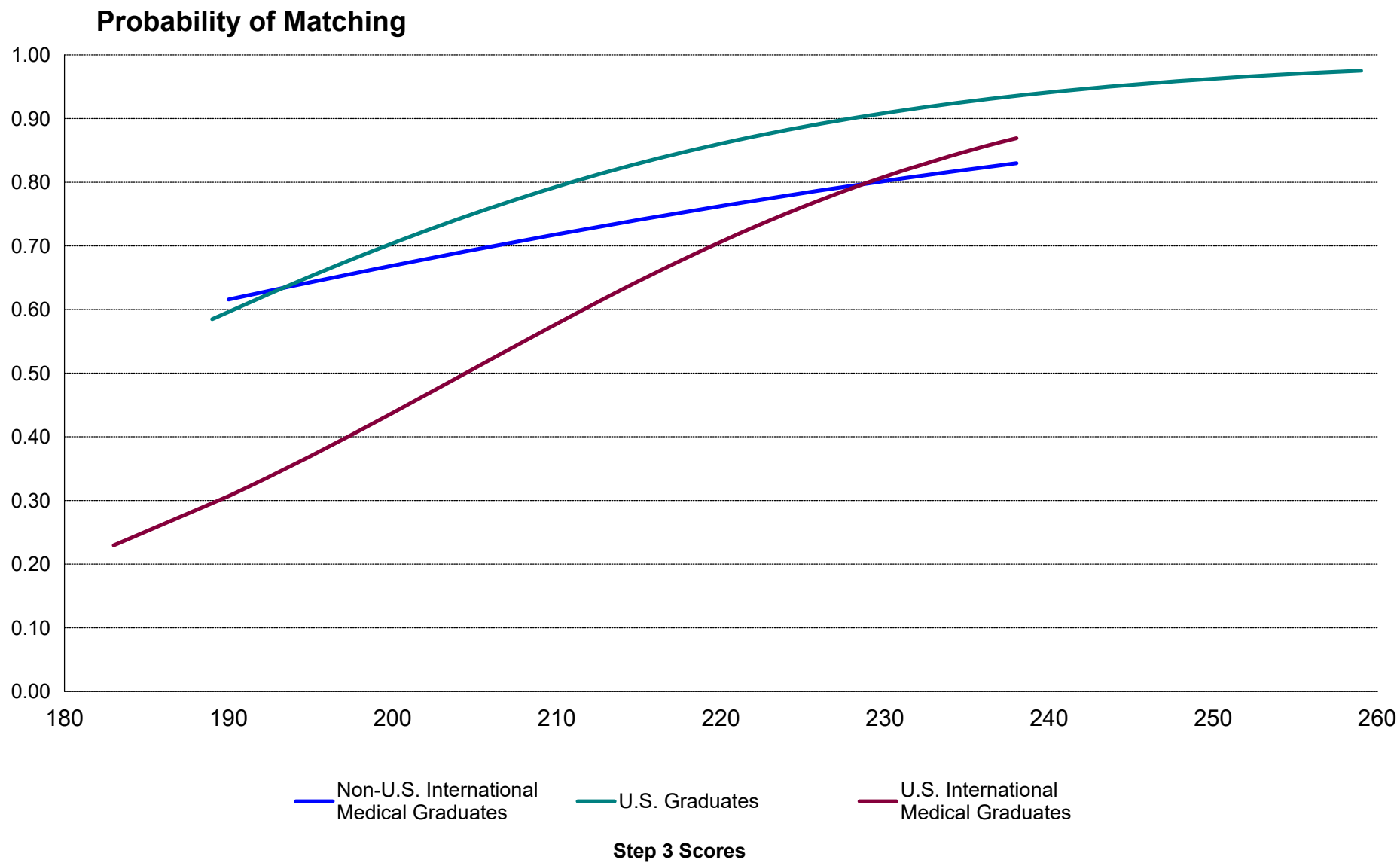
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Pain Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects
Pain Medicine

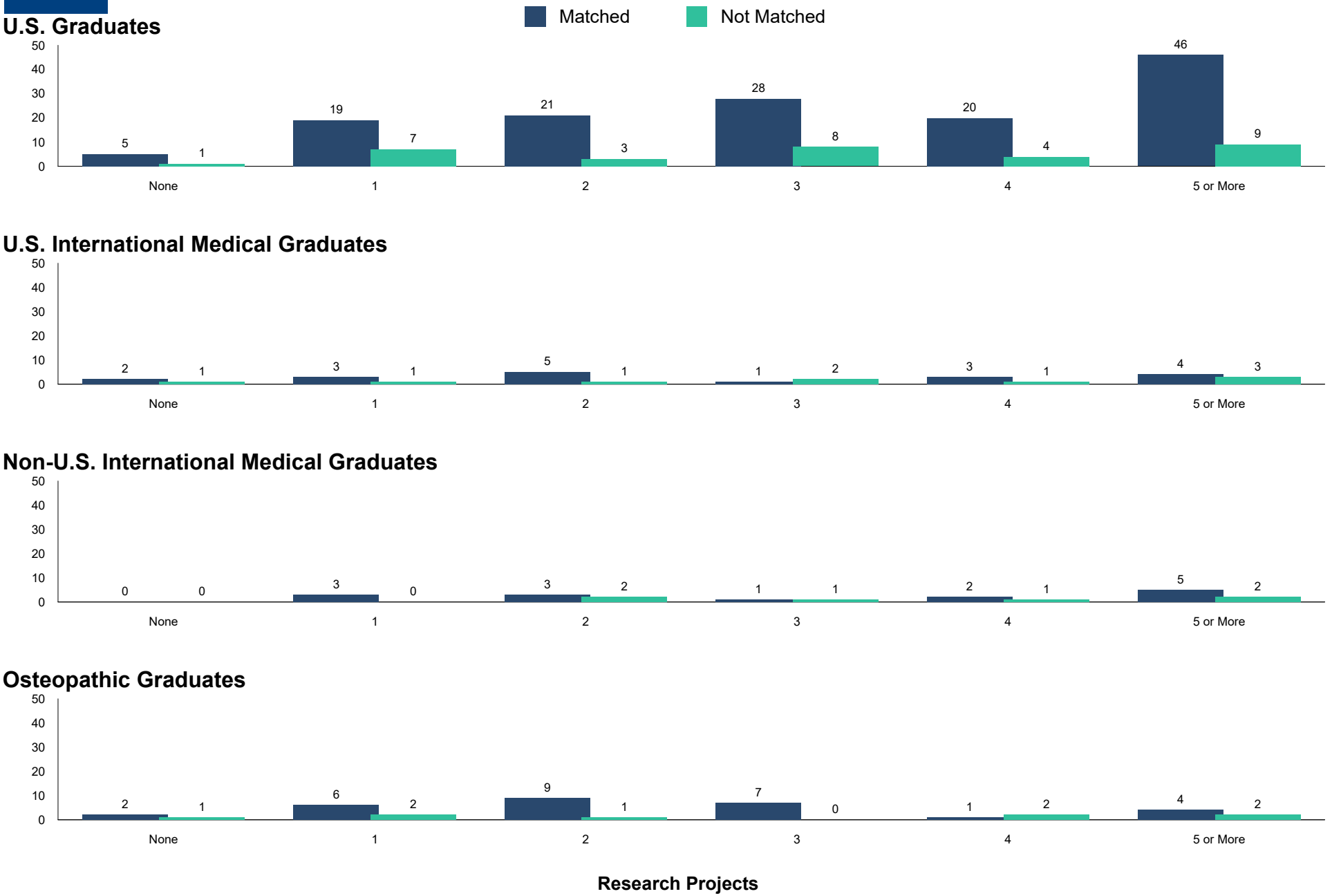

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Chart-7 Number of Abstracts, Presentations, and Publications

Pain Medicine

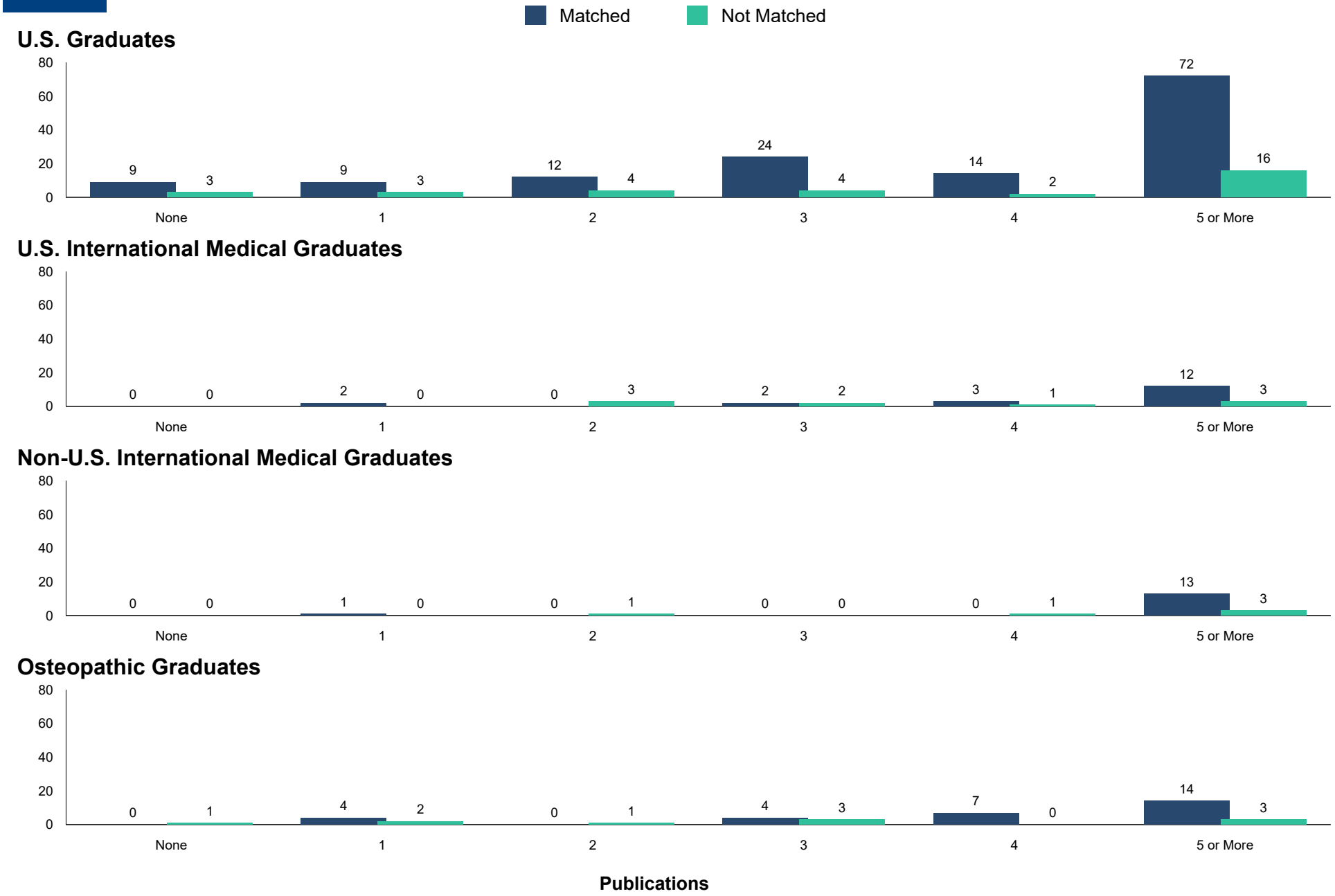

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Chart-8 Number of Work Experiences
Pain Medicine

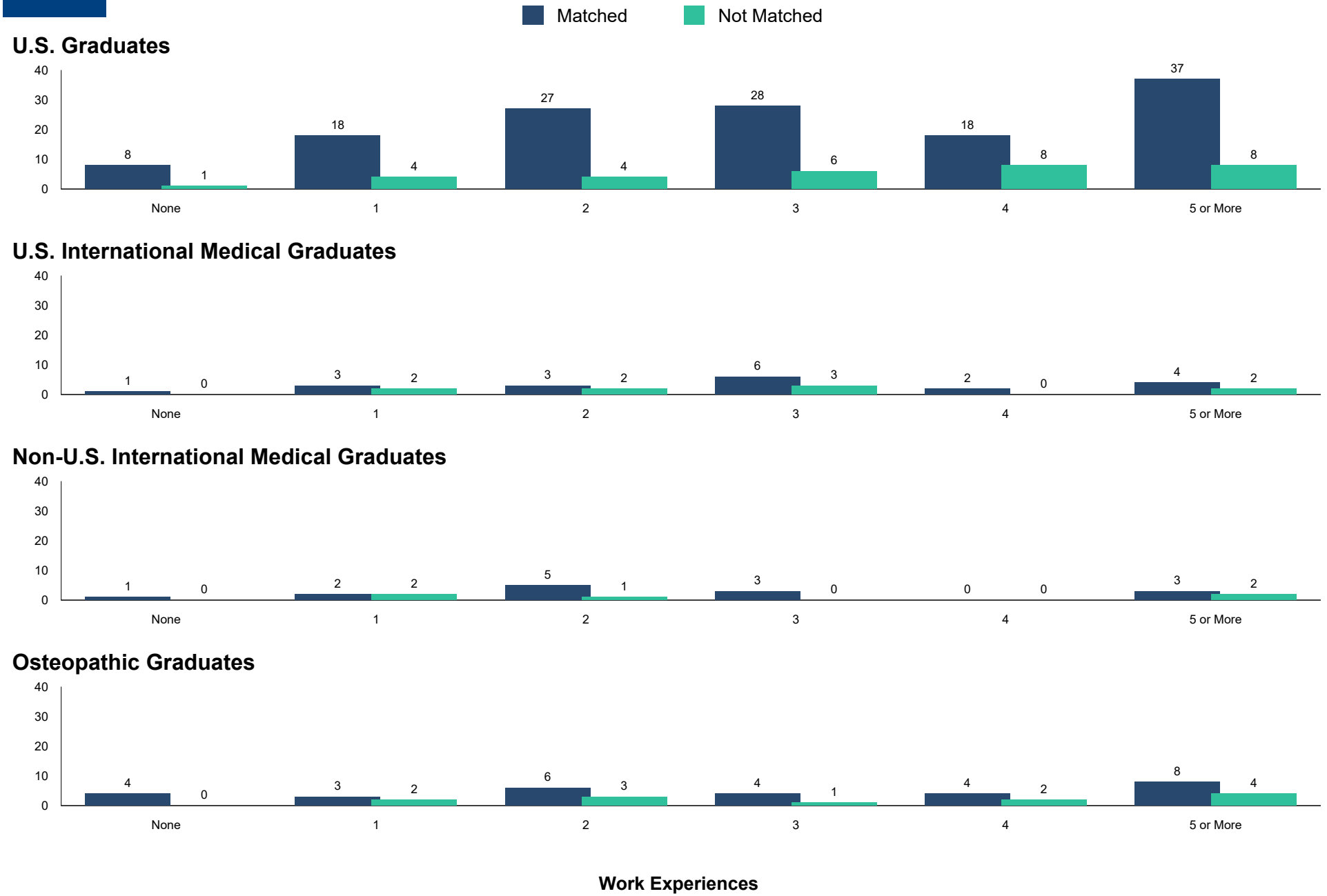

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Chart-9 Number of Volunteer Experiences

Pain Medicine

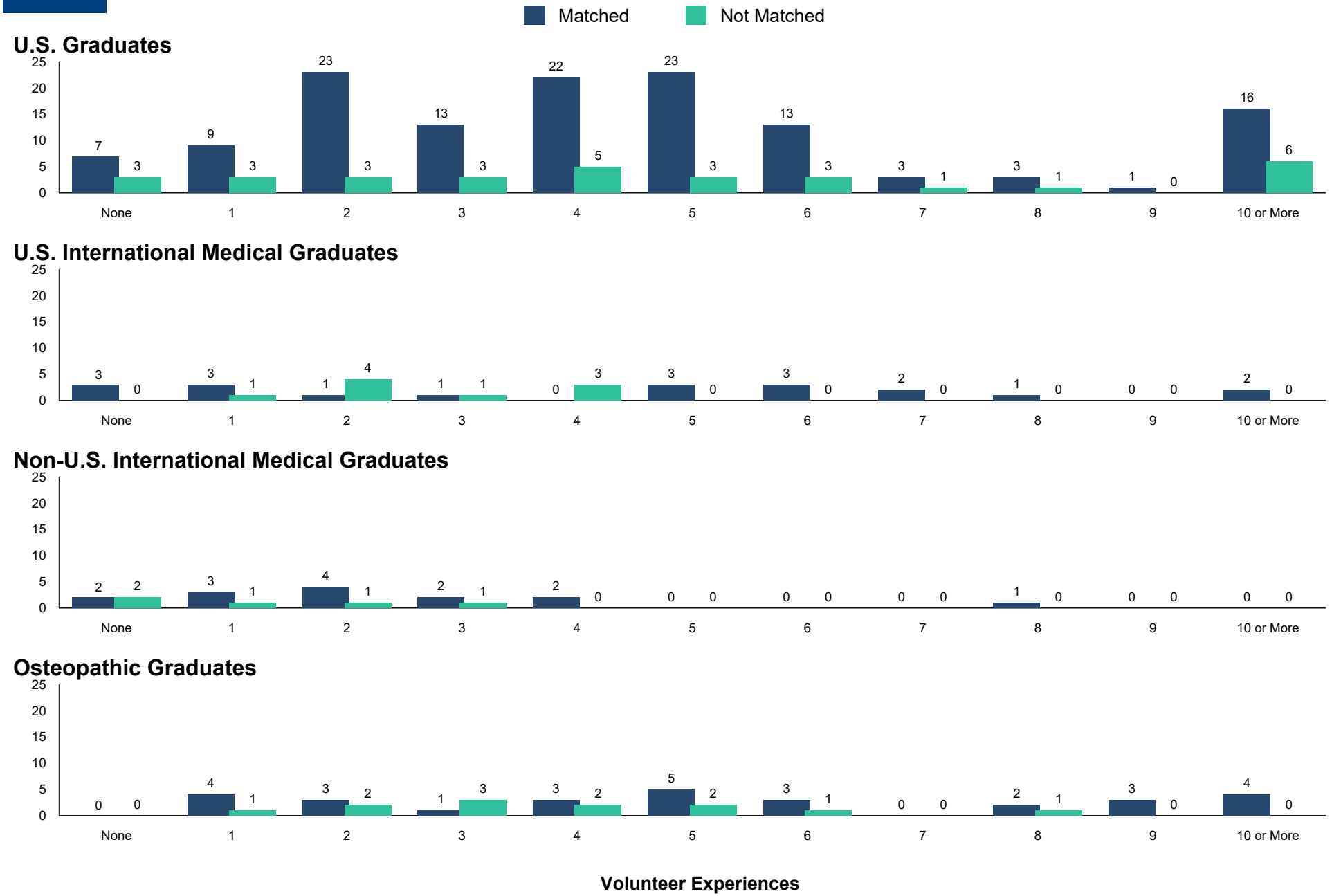

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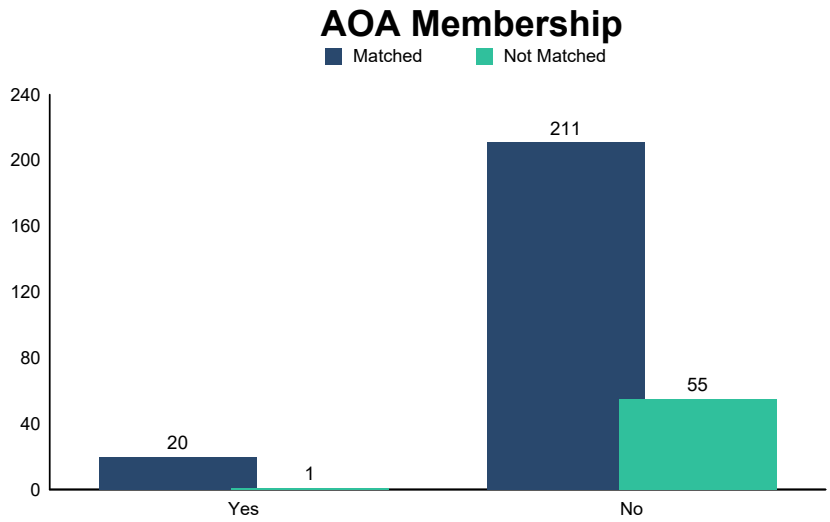
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Pain Medicine



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Pediatric Anesthesiology

Table-1 Summary Statistics
Pediatric Anesthesiology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=141)	Unmatched (n=3)	Matched (n=14)	Unmatched (n=0	Matched (n=11)	Unmatched (n=1)	Matched (n=15)	Unmatched (n=0)
1.	Mean number of contiguous ranks	5.8	n/a	8.4	n/a	7.0	3.0	7.5	n/a
2.	Mean number of distinct specialties ranked	1.0	n/a	1.0	n/a	1.1	1.0	1.0	n/a
3.	Mean USMLE Step 1 score	234	n/a	232	n/a	231	214	n/a	n/a
4.	Mean USMLE Step 2 score	244	n/a	235	n/a	240	250	n/a	n/a
5.	Mean USMLE Step 3 score	227	n/a	219	n/a	225	216	n/a	n/a
6.	Mean number of research experiences	4.7	n/a	3.7	n/a	3.4	1.0	2.3	n/a
7.	Mean number of abstracts, presentations, and publications	6.1	n/a	5.6	n/a	7.4	3.0	4.6	n/a
8.	Mean number of work experiences	3.1	n/a	4.2	n/a	3.6	3.0	2.3	n/a
9.	Mean number of volunteer experiences	5.4	n/a	3.8	n/a	2.3	0.0	4.2	n/a
10.	Percentage who are AOA members	14.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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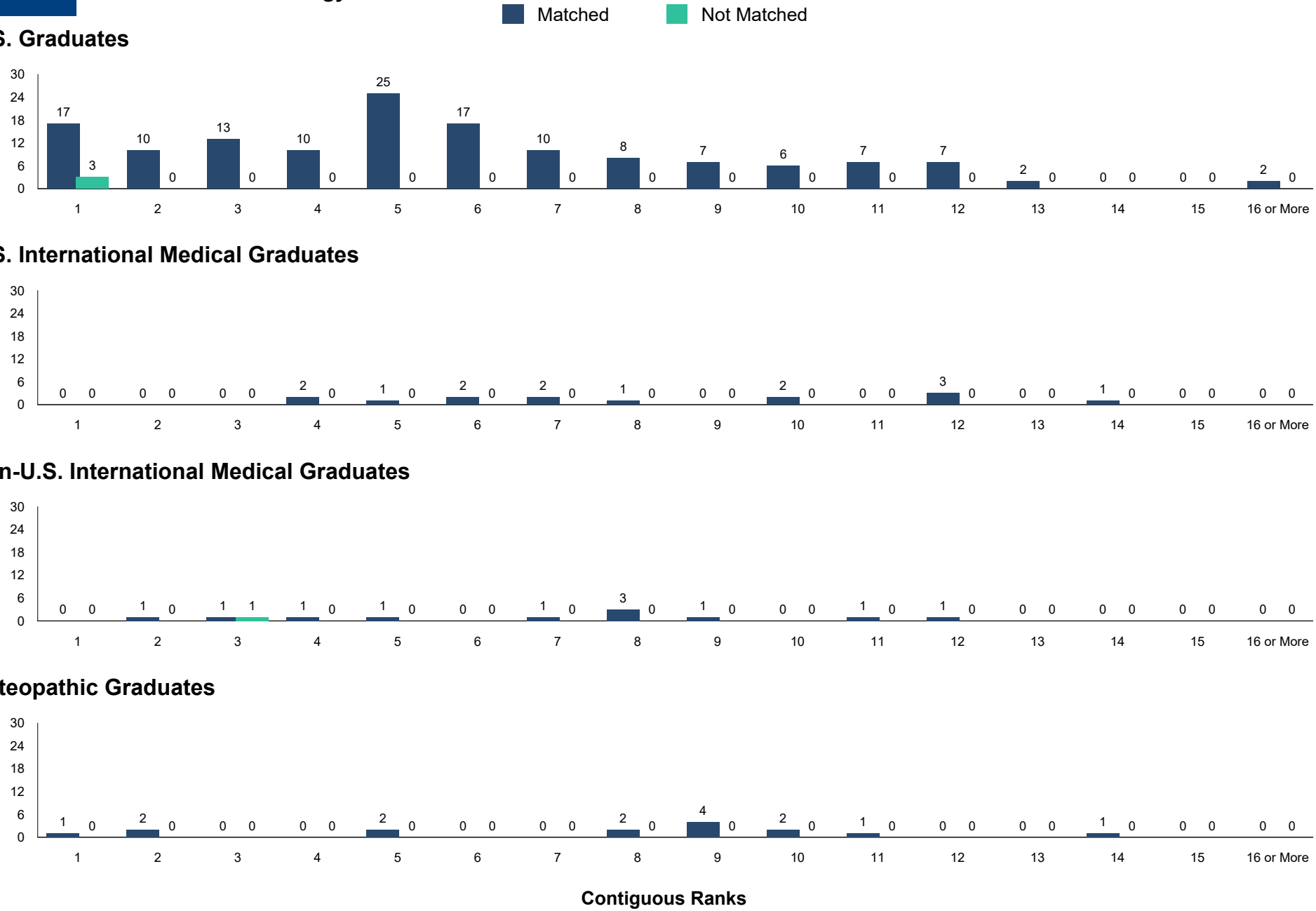
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Pediatric Anesthesiology



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pediatric Anesthesiology

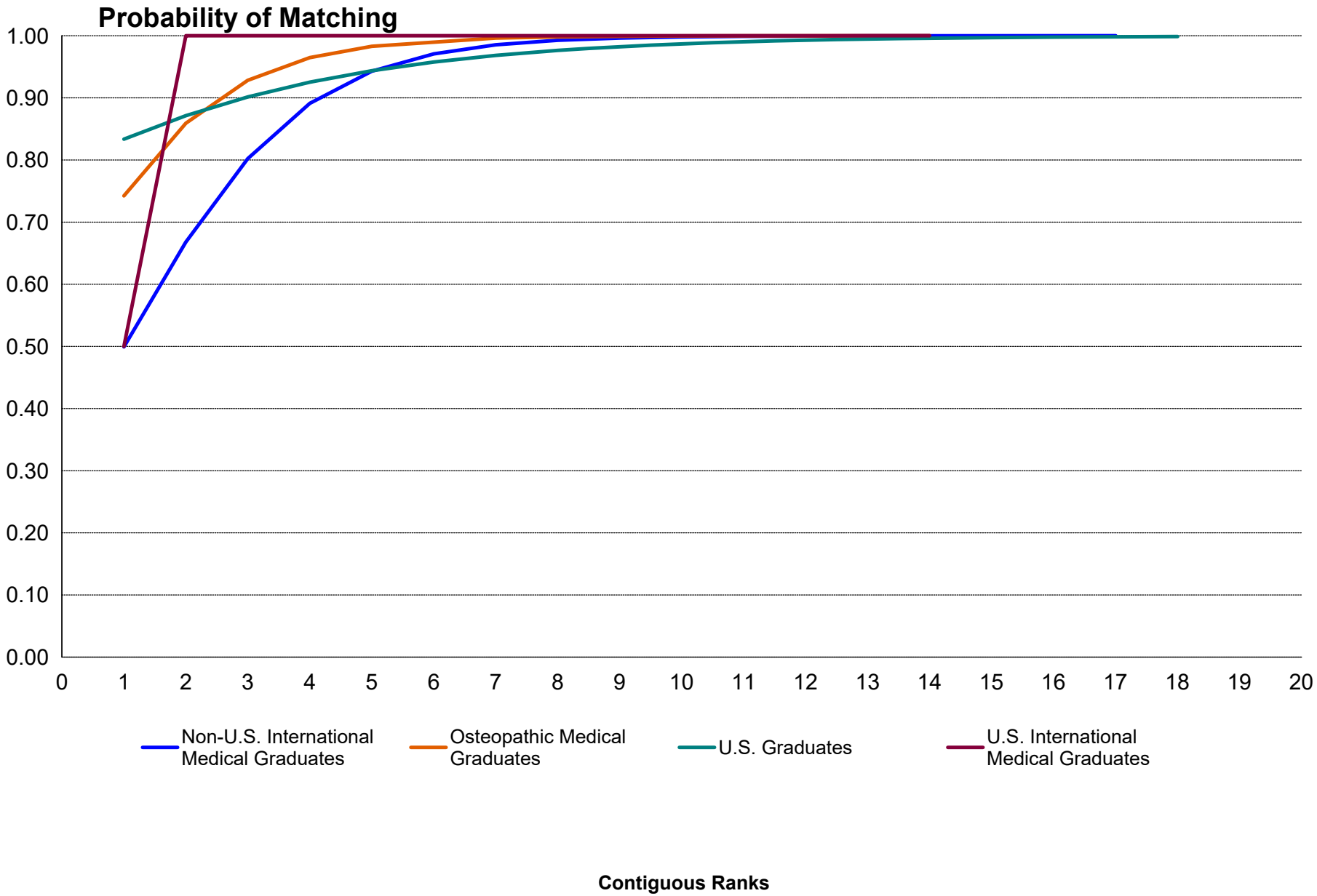

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Chart-2 Number of Distinct Specialties Ranked

Pediatric Anesthesiology

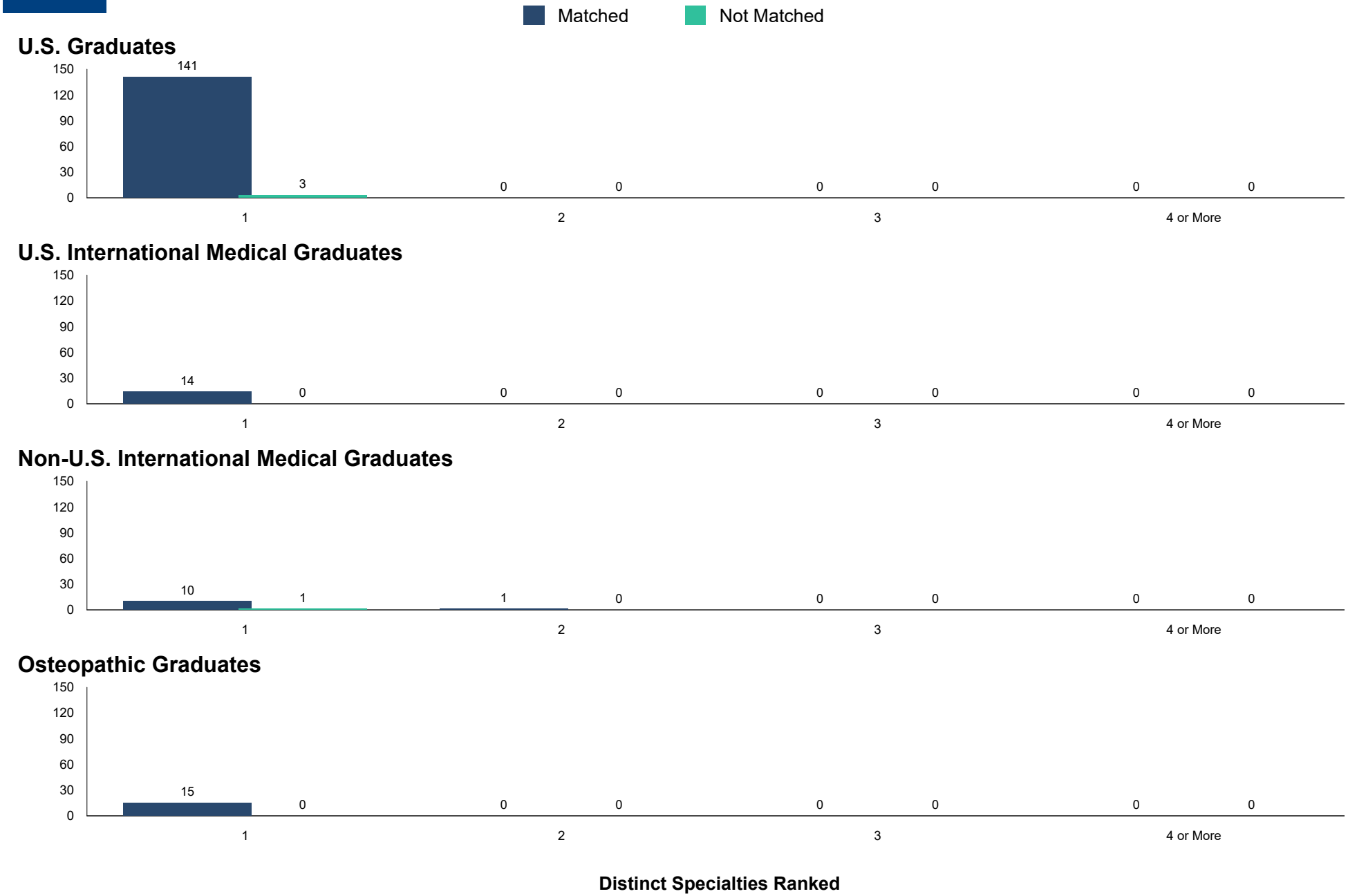

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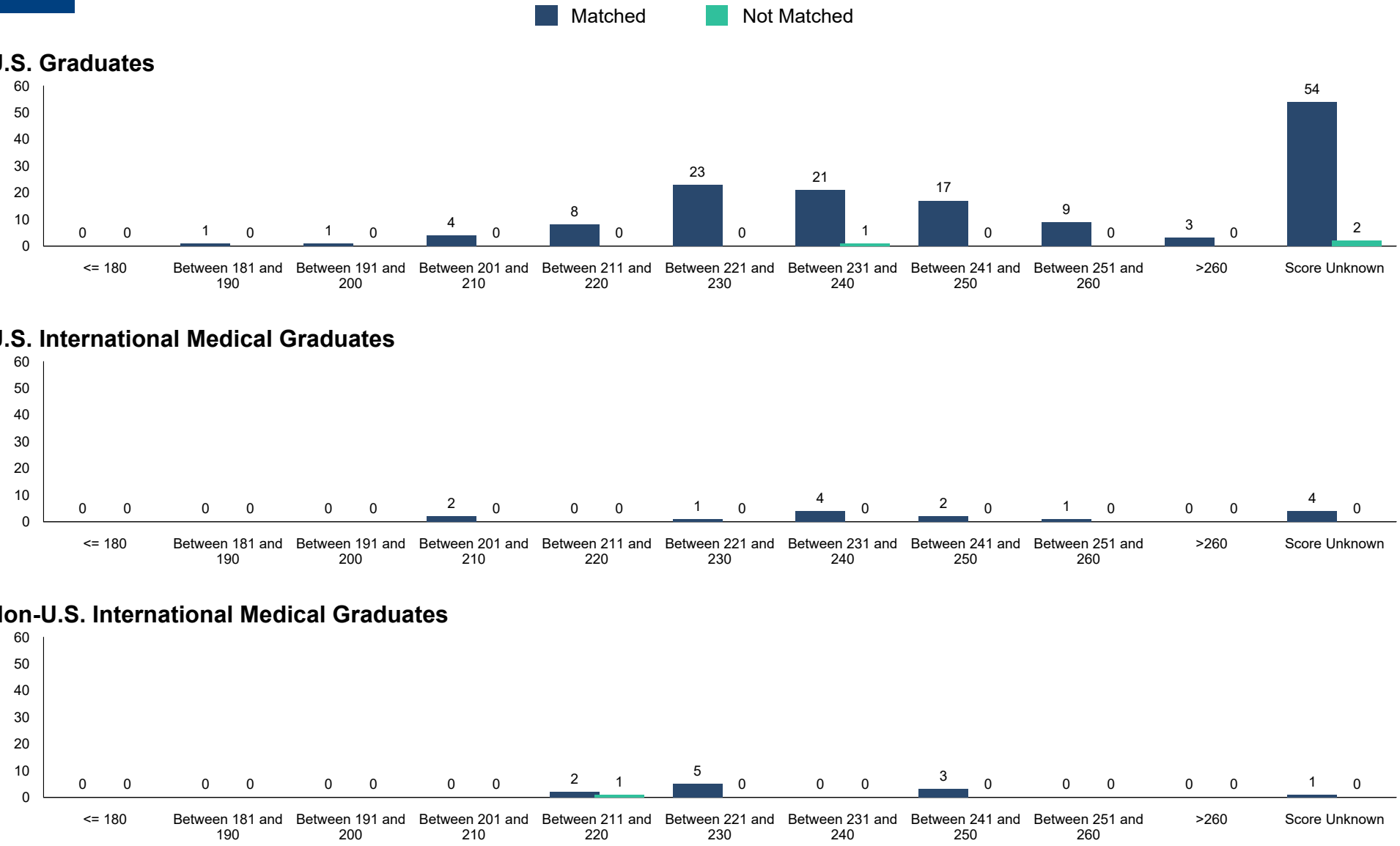
Chart-3 USMLE Step 1 Scores
Pediatric Anesthesiology



Step 1 Scores

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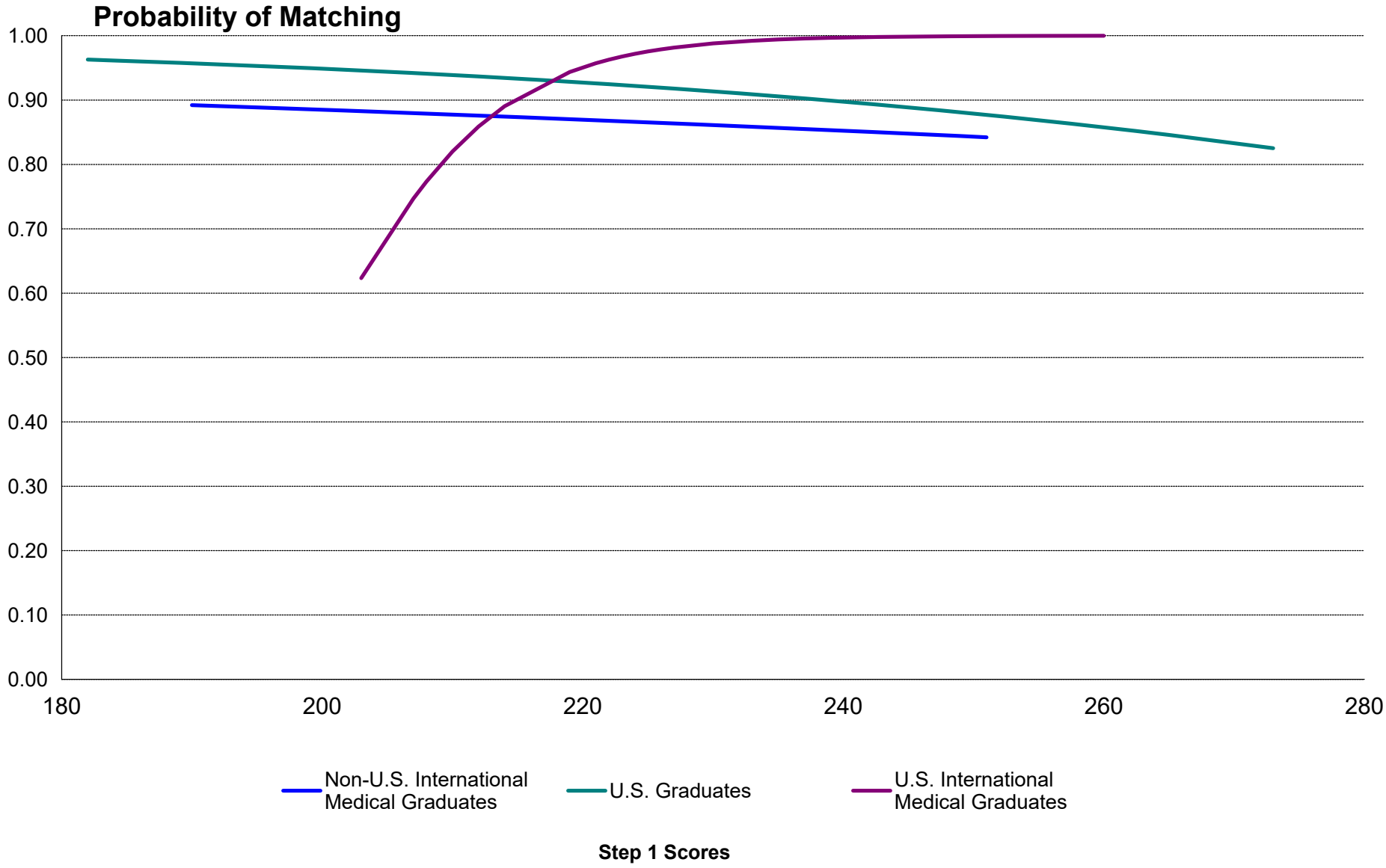
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pediatric Anesthesiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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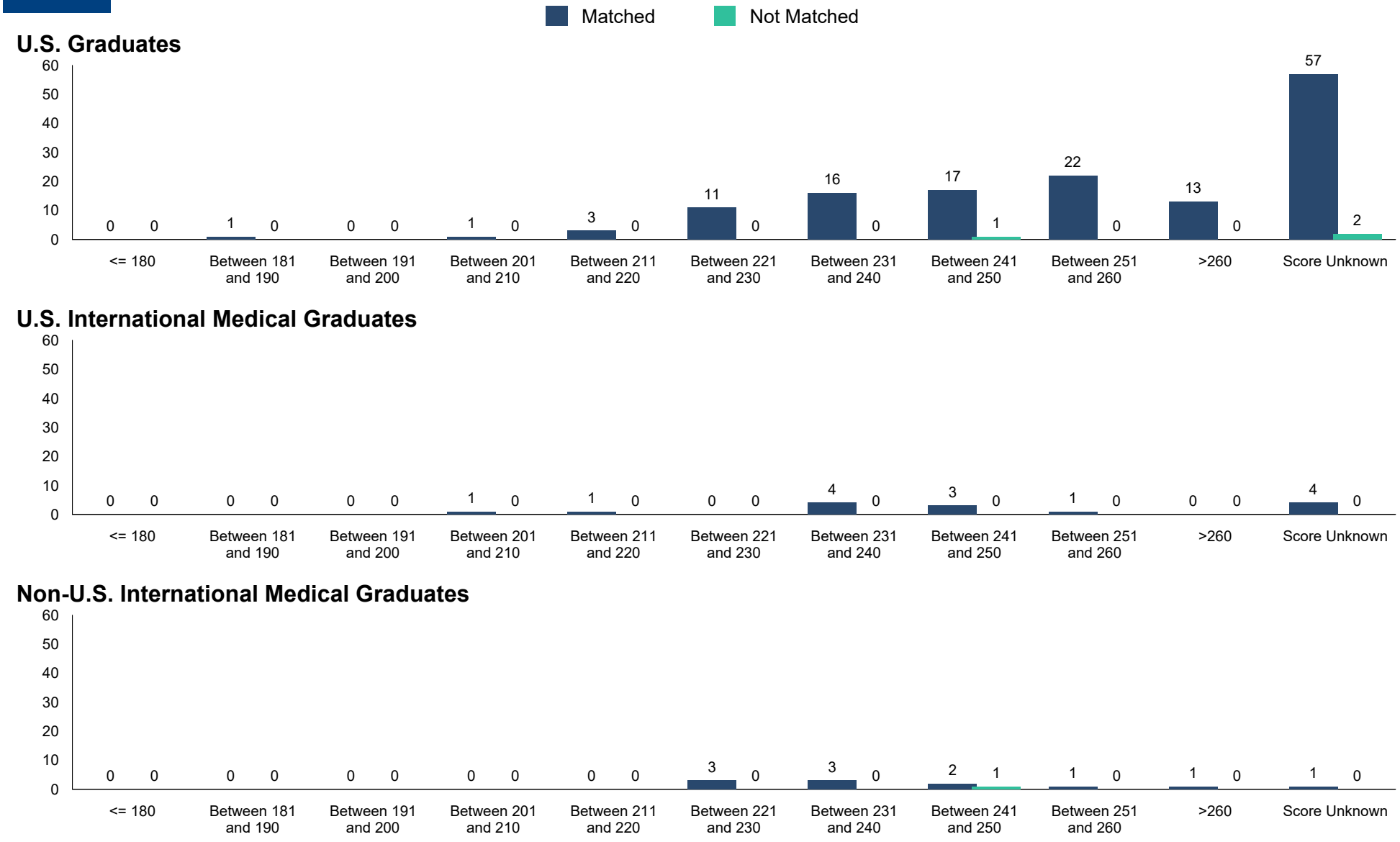
Chart-4 USMLE Step 2 Scores

Pediatric Anesthesiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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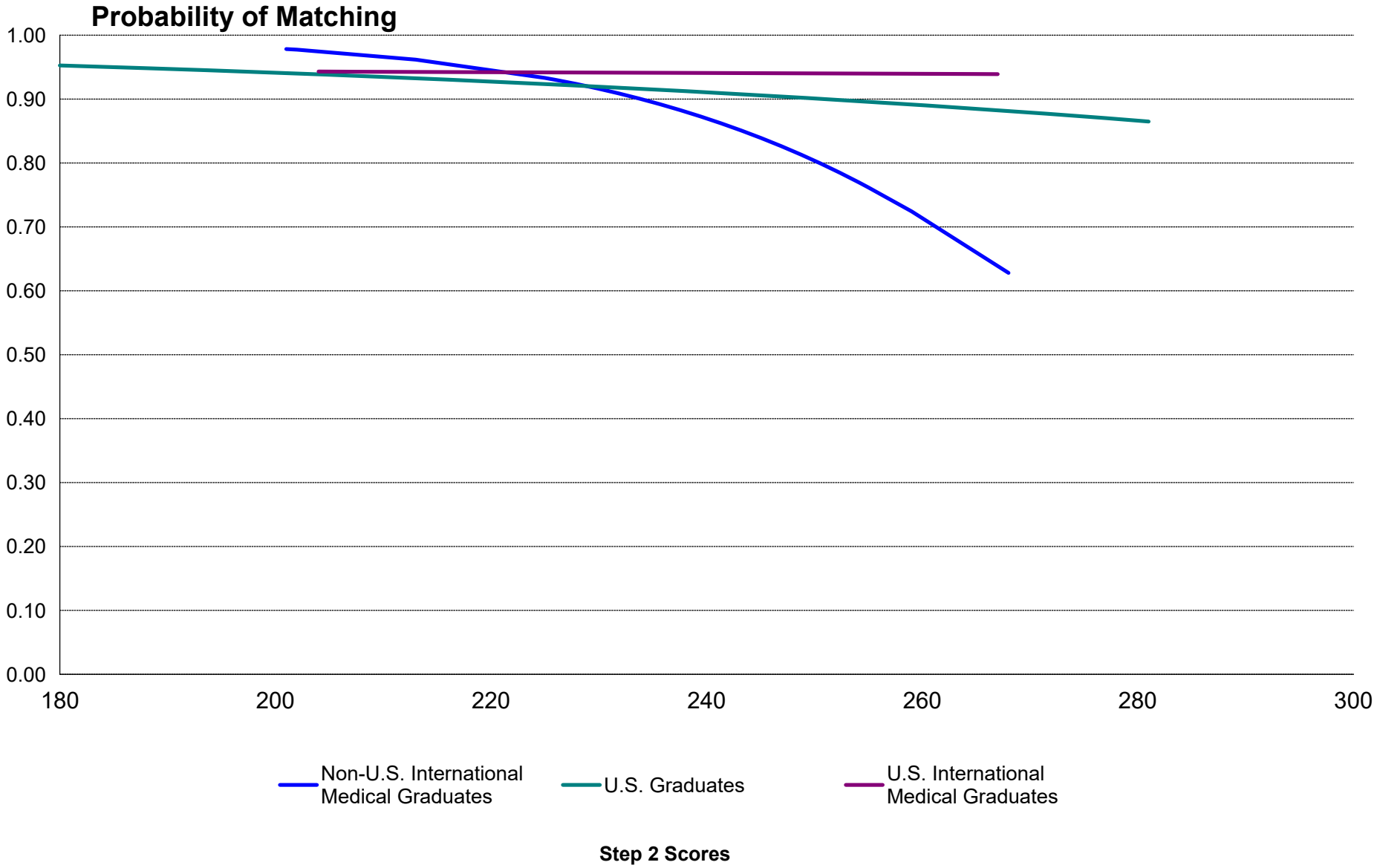
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Pediatric Anesthesiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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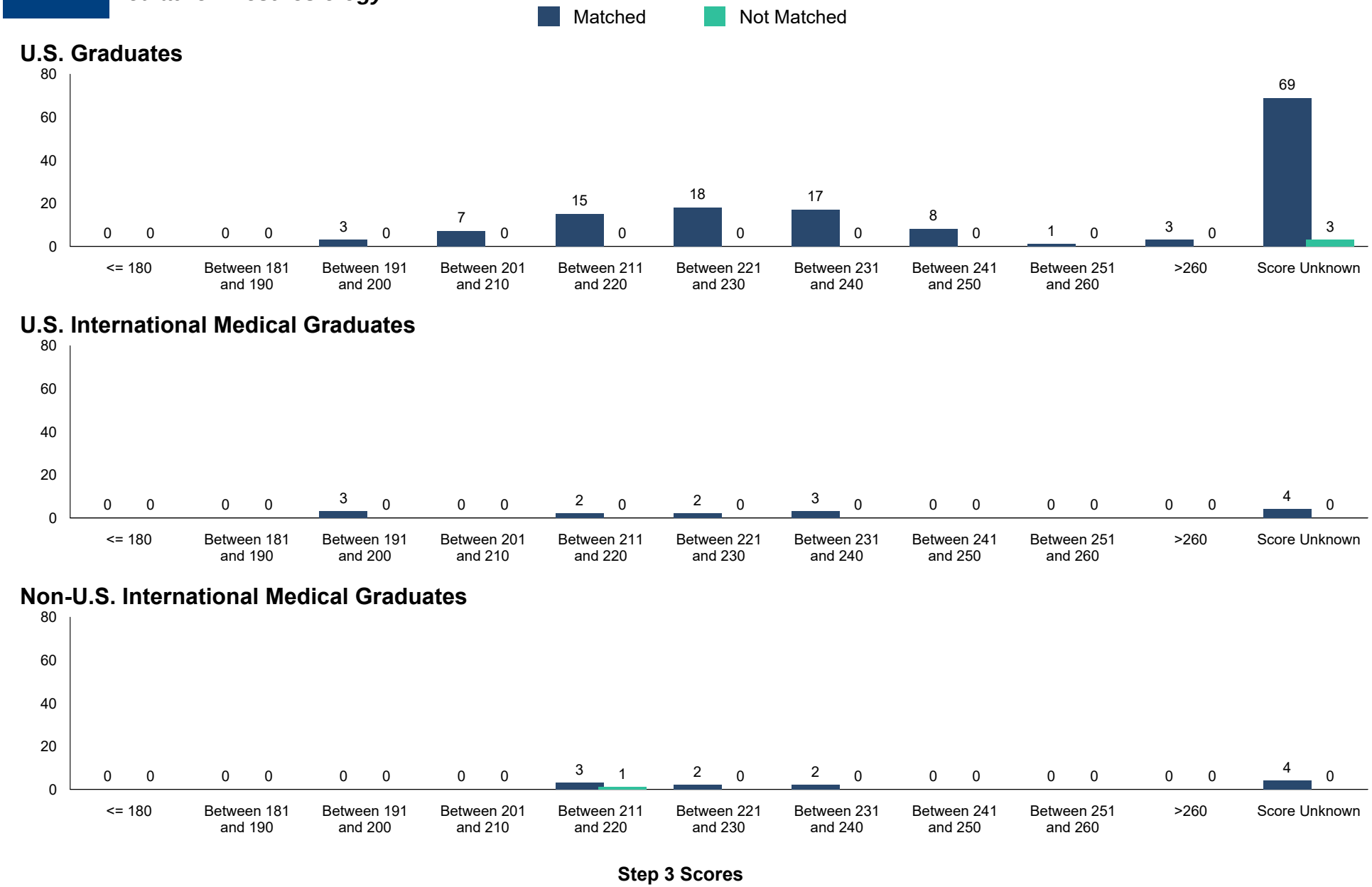
Chart-5 USMLE Step 3 Scores
Pediatric Anesthesiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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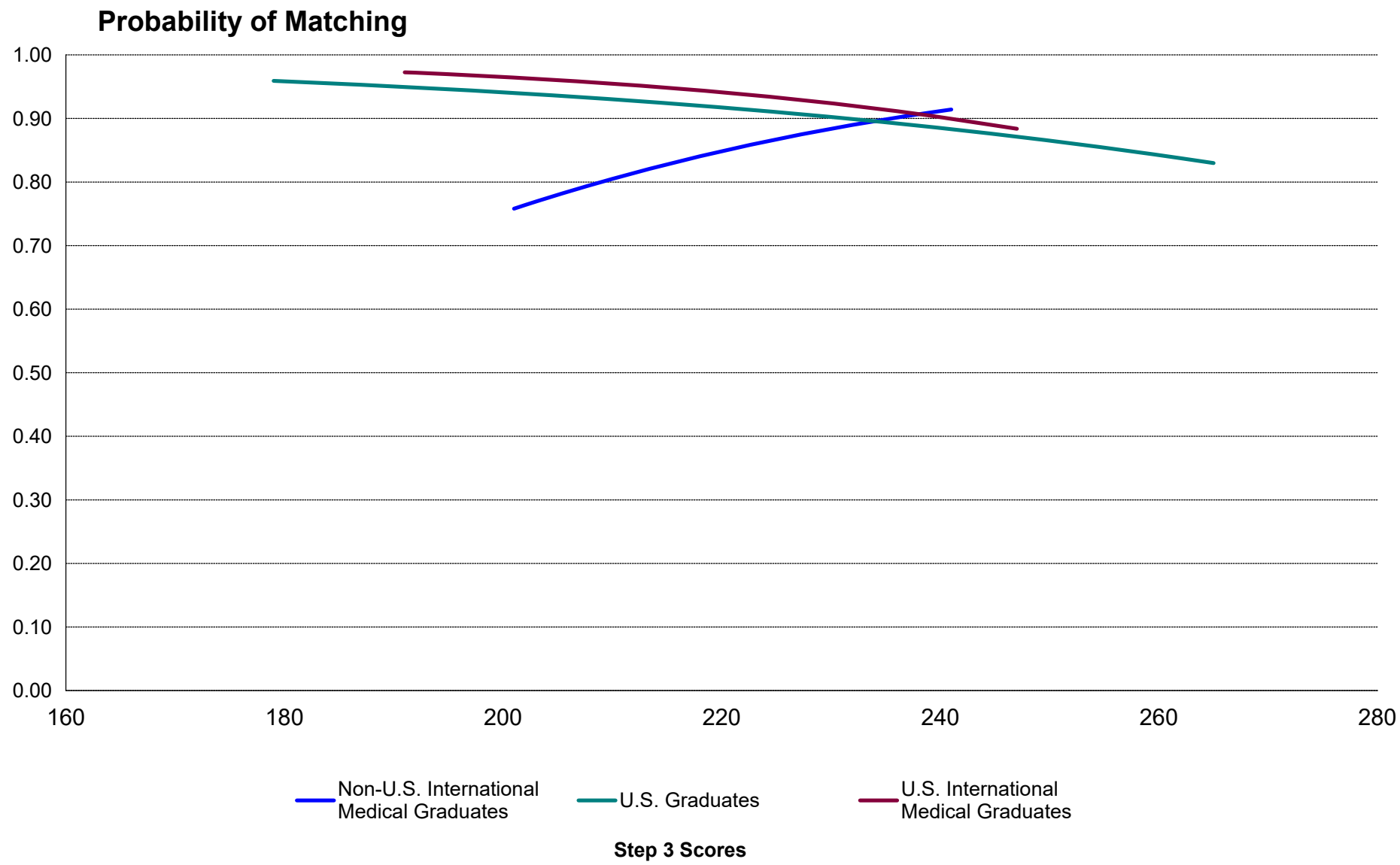
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Pediatric Anesthesiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Pediatric Anesthesiology

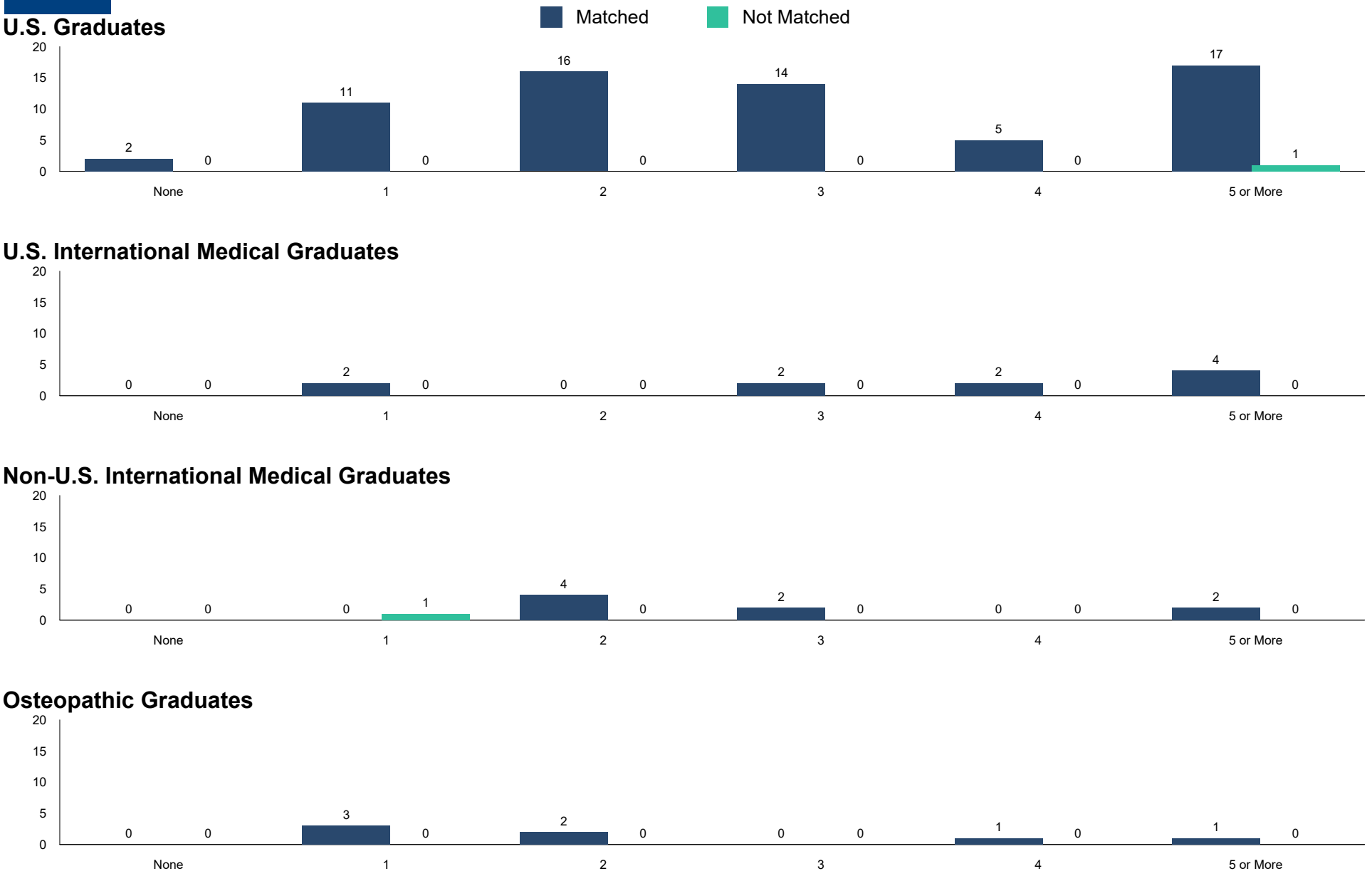

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Chart-7 Number of Abstracts, Presentations, and Publications

Pediatric Anesthesiology

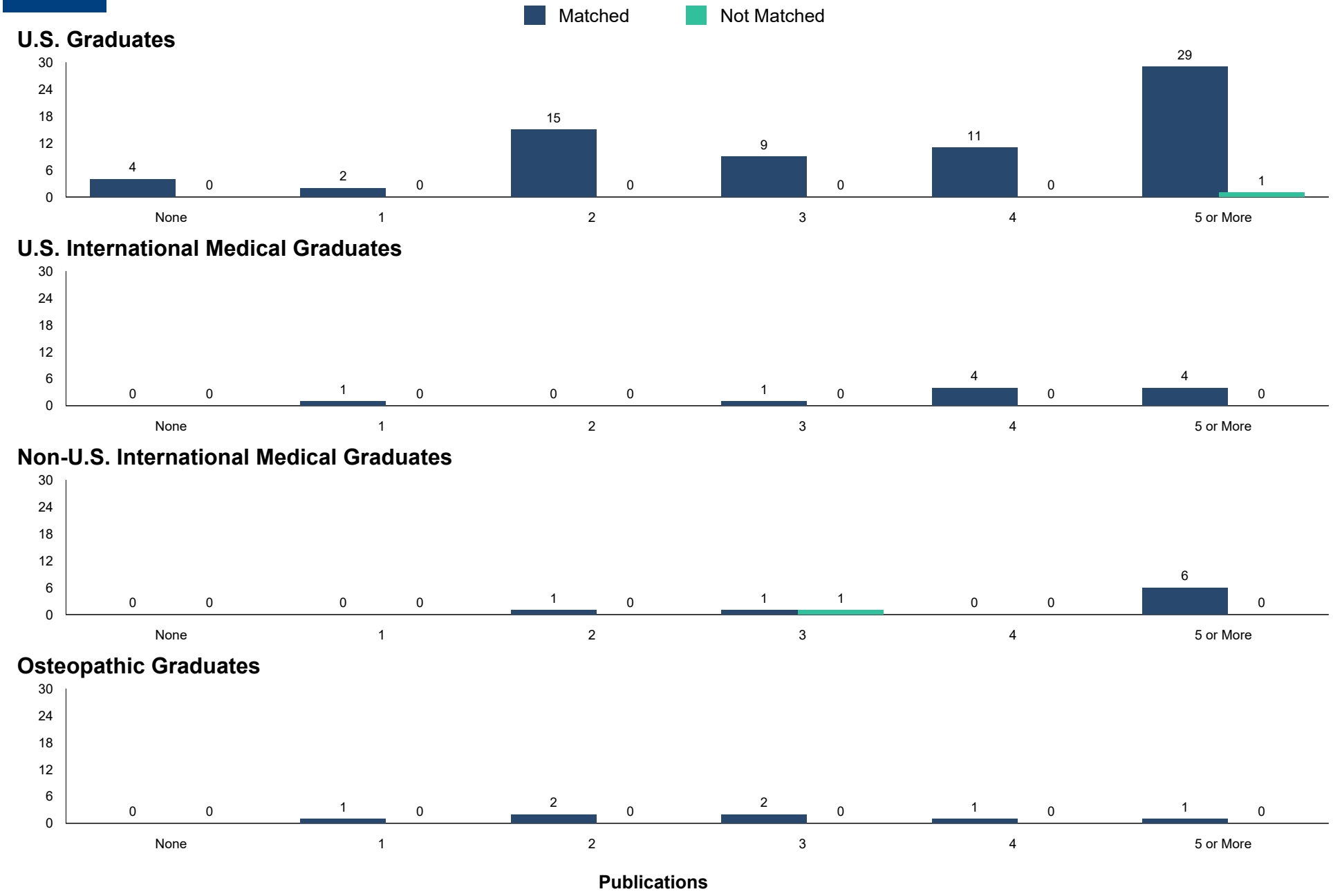

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Chart-8 Number of Work Experiences
Pediatric Anesthesiology

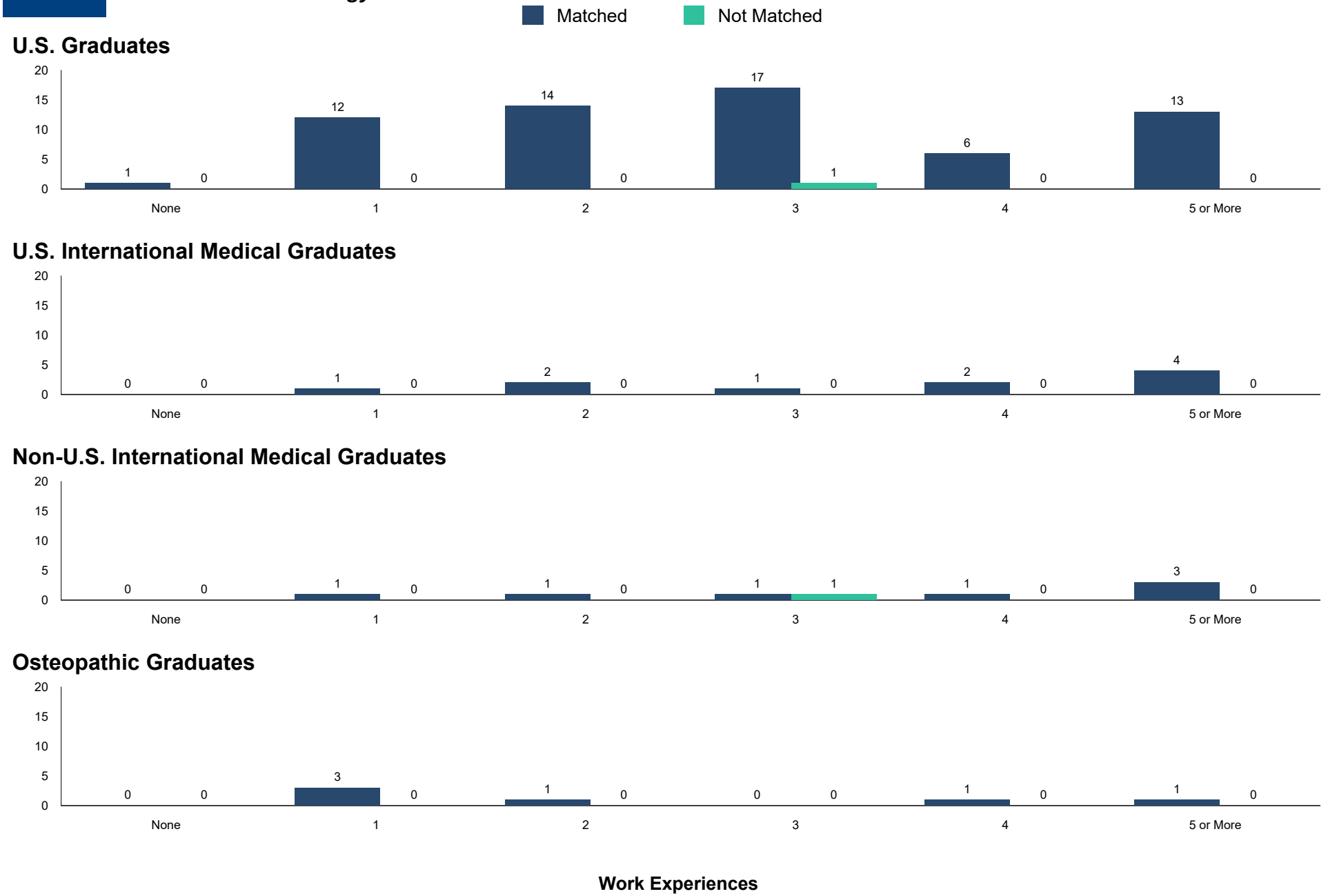

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Chart-9 Number of Volunteer Experiences

Pediatric Anesthesiology

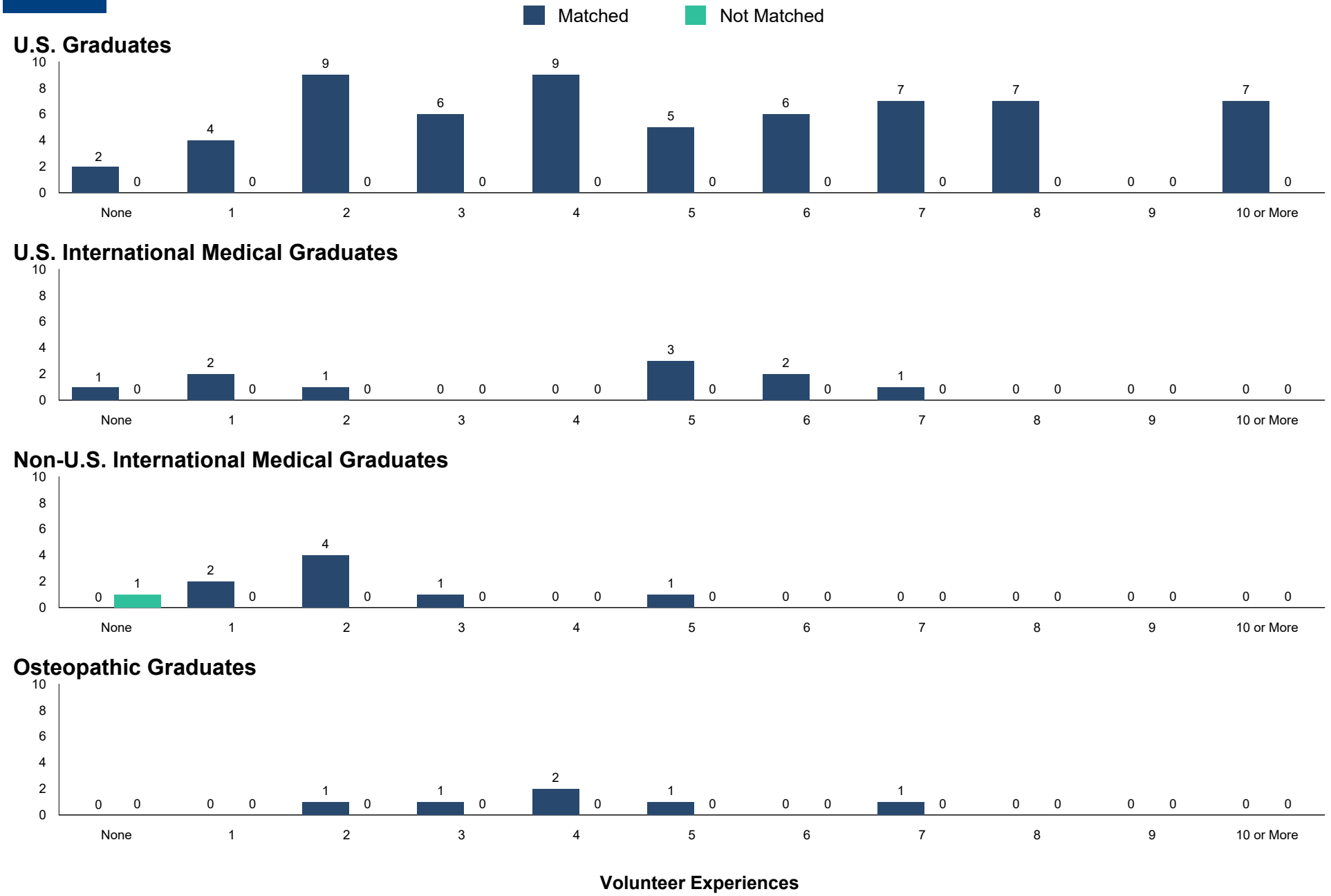

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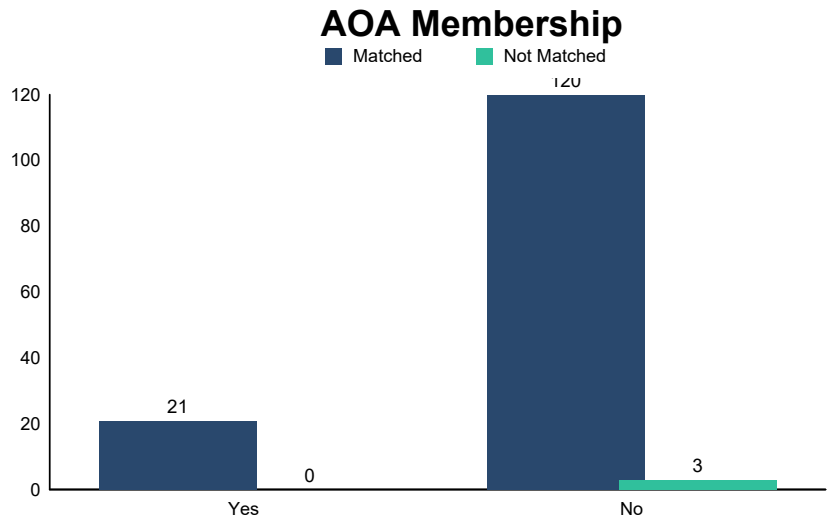
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Pediatric Anesthesiology



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Pediatric Cardiology

Table-1 Summary Statistics
Pediatric Cardiology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=96)	Unmatched (n=8)	Matched (n=8)	Unmatched (n=0)	Matched (n=27)	Unmatched (n=11)	Matched (n=9)	Unmatched (n=2)
1.	Mean number of contiguous ranks	7.8	4.9	9.1	n/a	7.4	2.5	7.8	6.5
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	n/a	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	238	237	237	n/a	235	225	n/a	n/a
4.	Mean USMLE Step 2 score	247	243	244	n/a	241	227	n/a	n/a
5.	Mean USMLE Step 3 score	228	223	231	n/a	219	206	n/a	n/a
6.	Mean number of research experiences	3.6	1.3	3.0	n/a	4.1	2.1	2.2	3.0
7.	Mean number of abstracts, presentations, and publications	5.8	0.7	7.4	n/a	10.8	3.8	5.8	6.0
8.	Mean number of work experiences	3.6	1.7	3.2	n/a	4.5	2.6	3.3	7.0
9.	Mean number of volunteer experiences	6.2	2.7	3.4	n/a	2.9	4.0	4.6	10.0
10.	Percentage who are AOA members	21.9	12.5	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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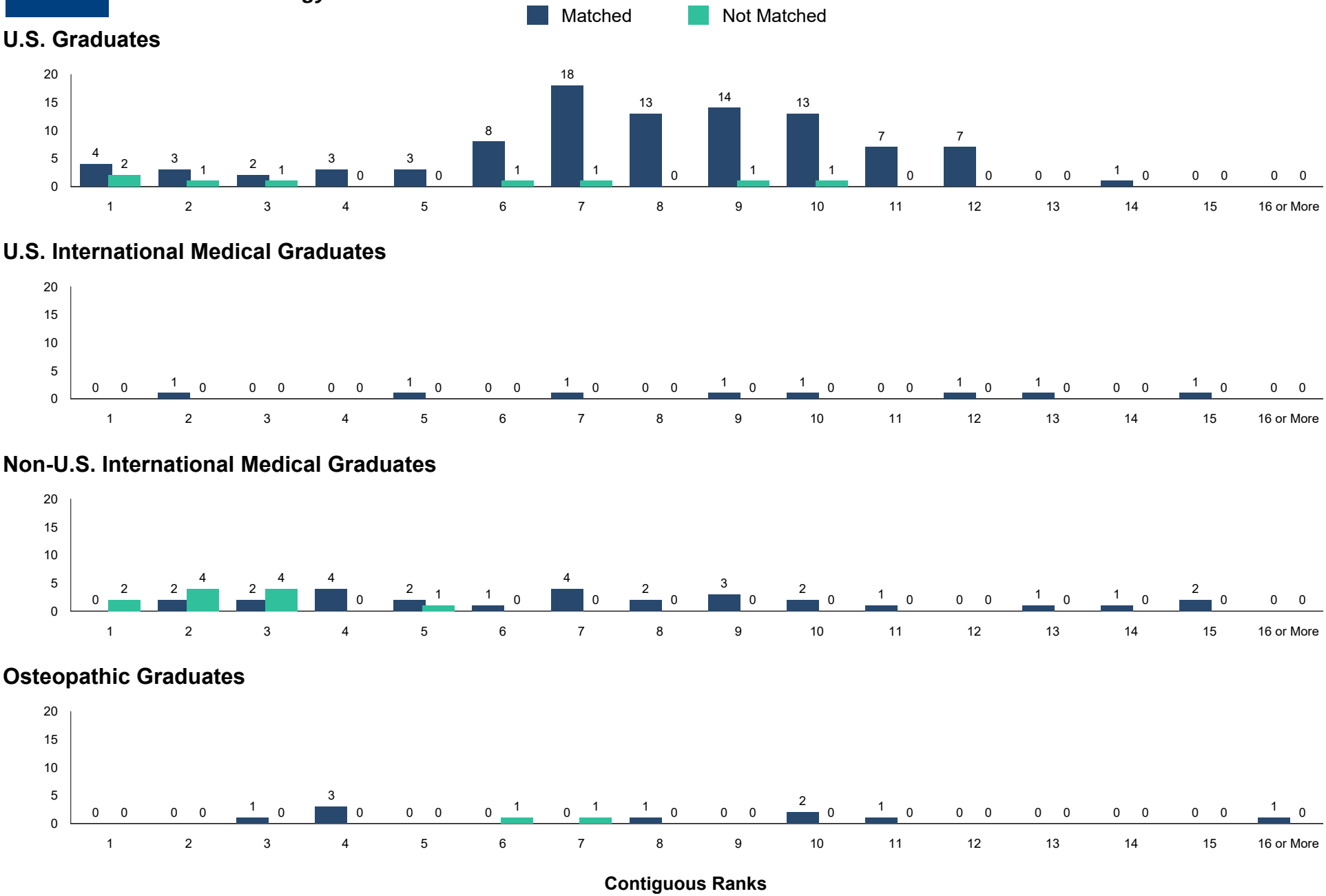
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Pediatric Cardiology



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pediatric Cardiology

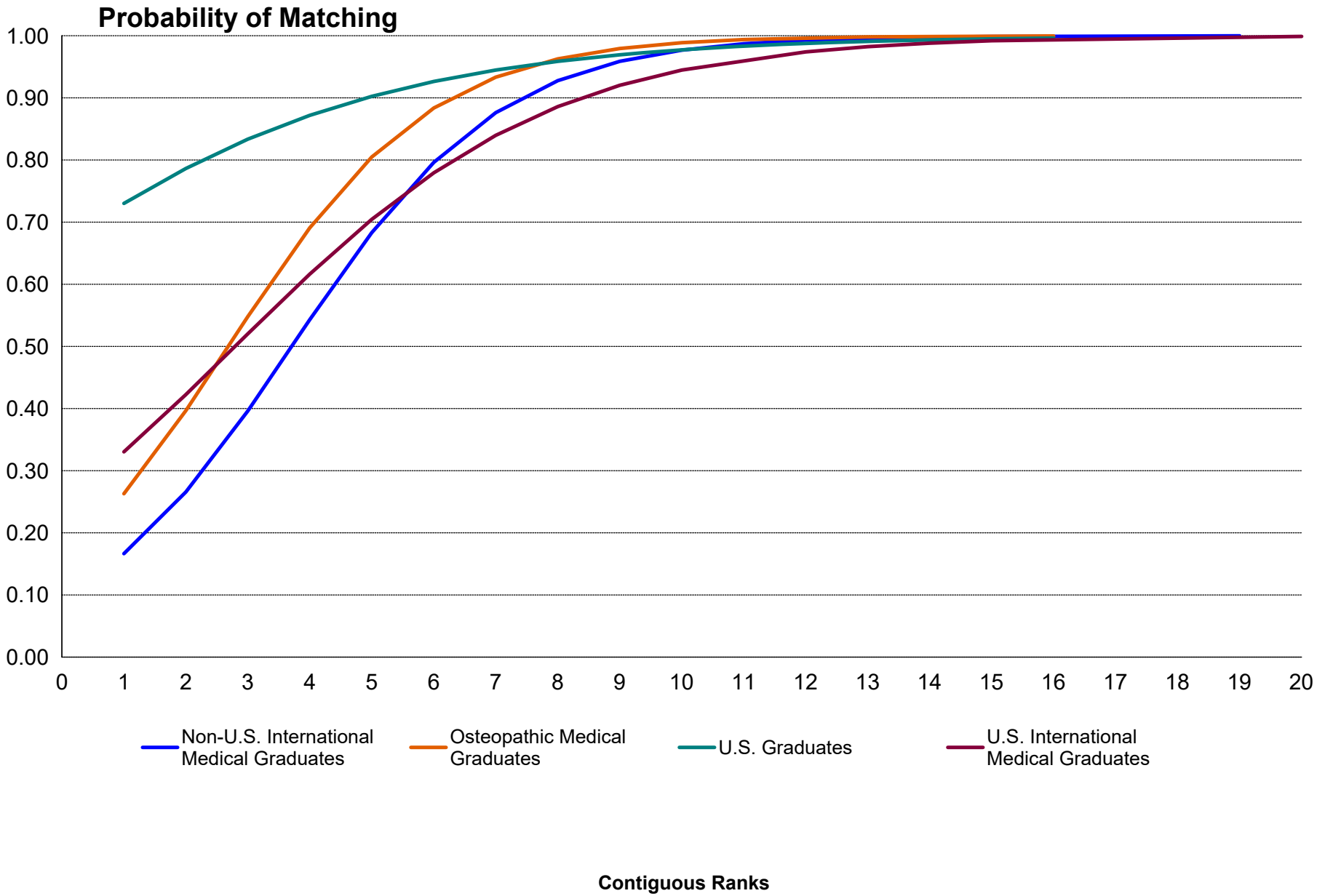

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Chart-2 Number of Distinct Specialties Ranked

Pediatric Cardiology

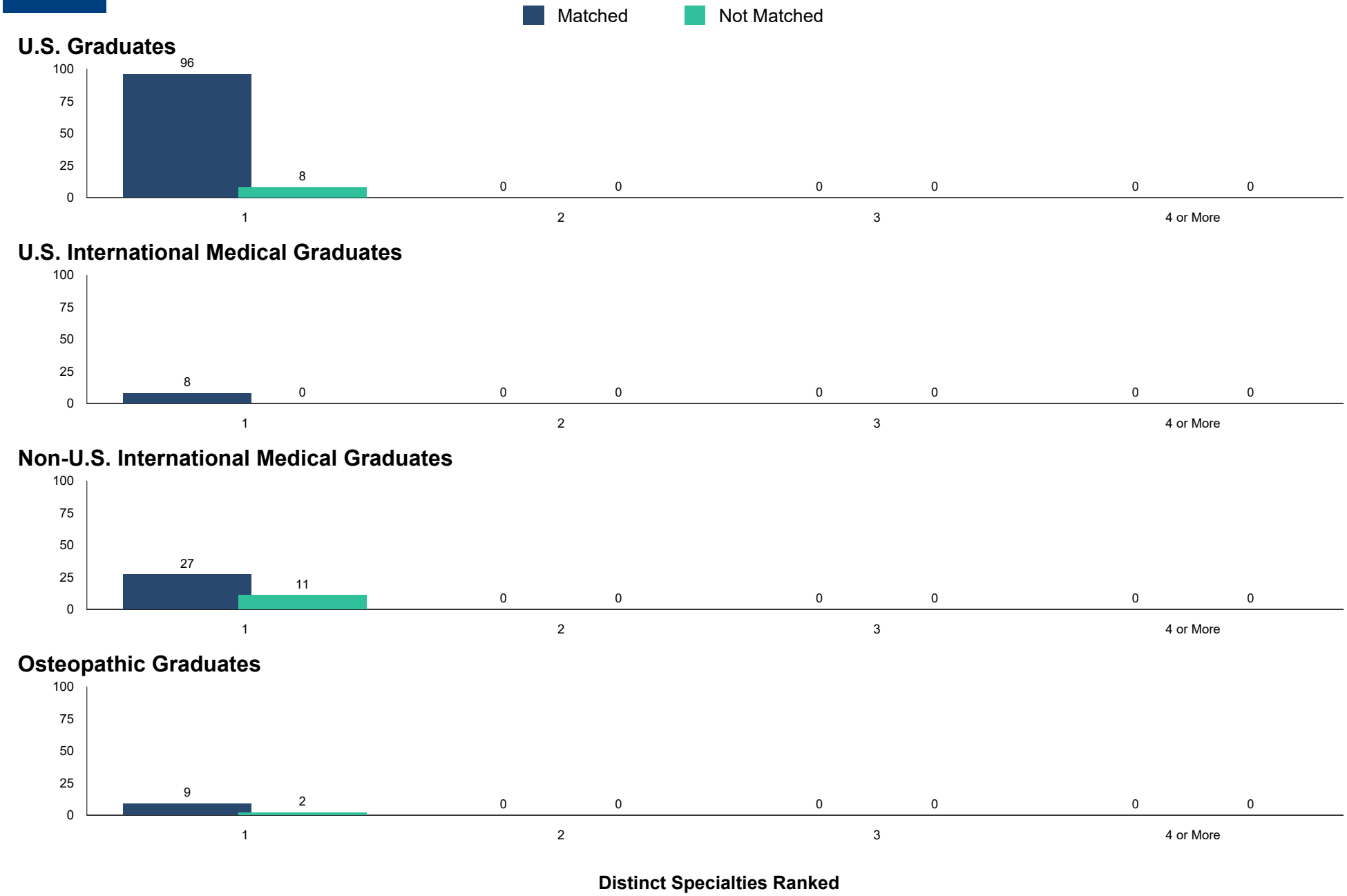

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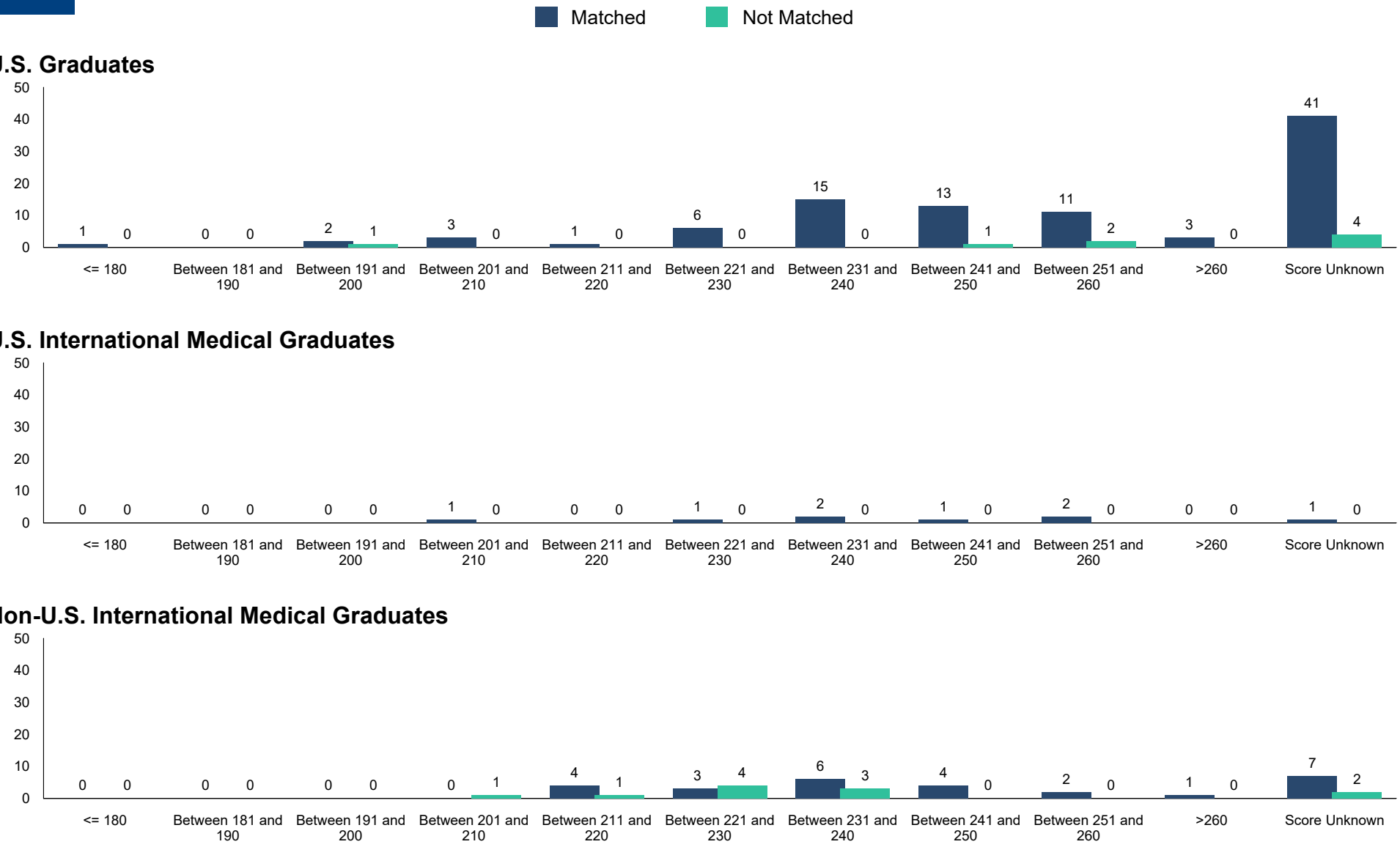
Chart-3 USMLE Step 1 Scores

Pediatric Cardiology



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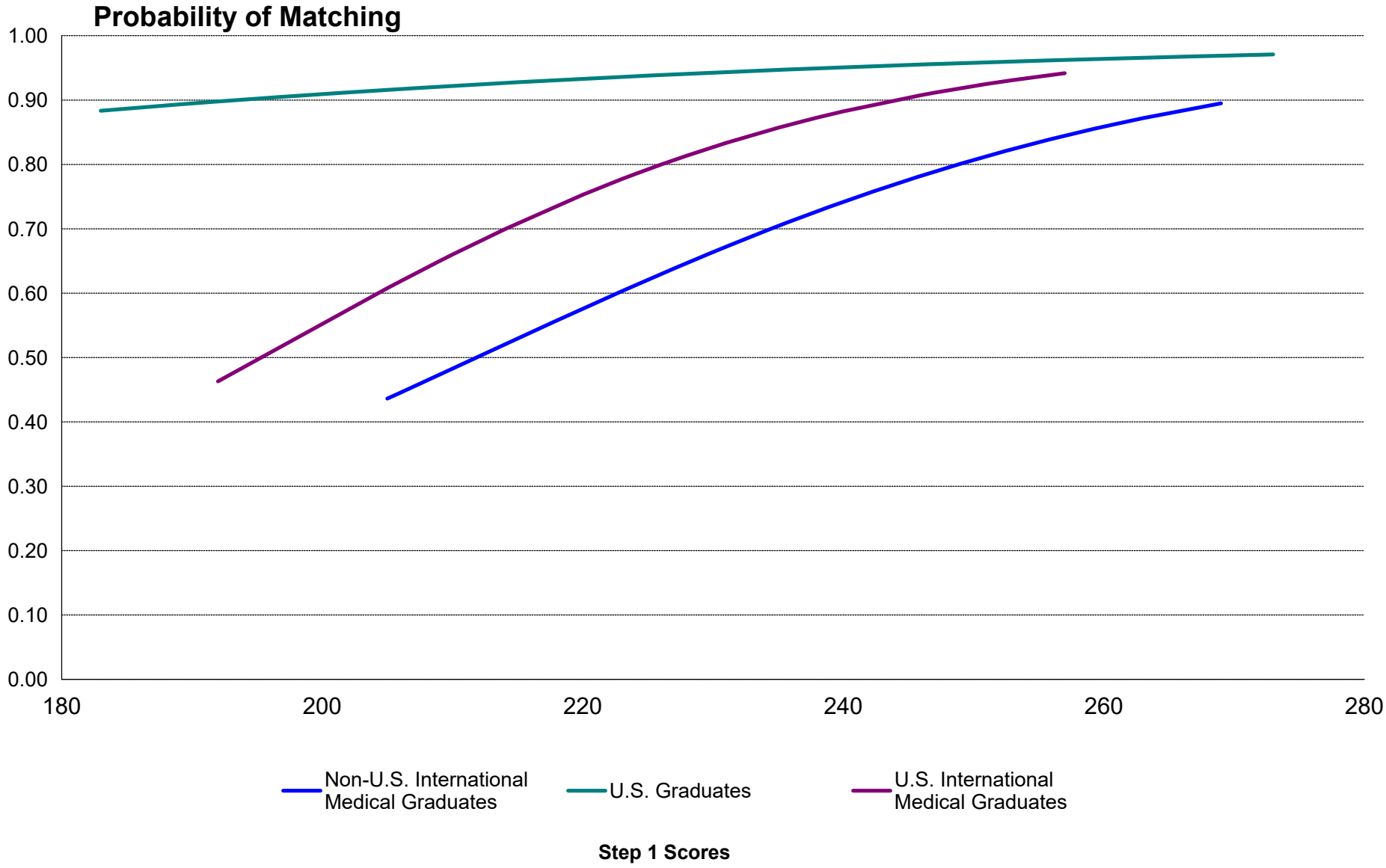
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pediatric Cardiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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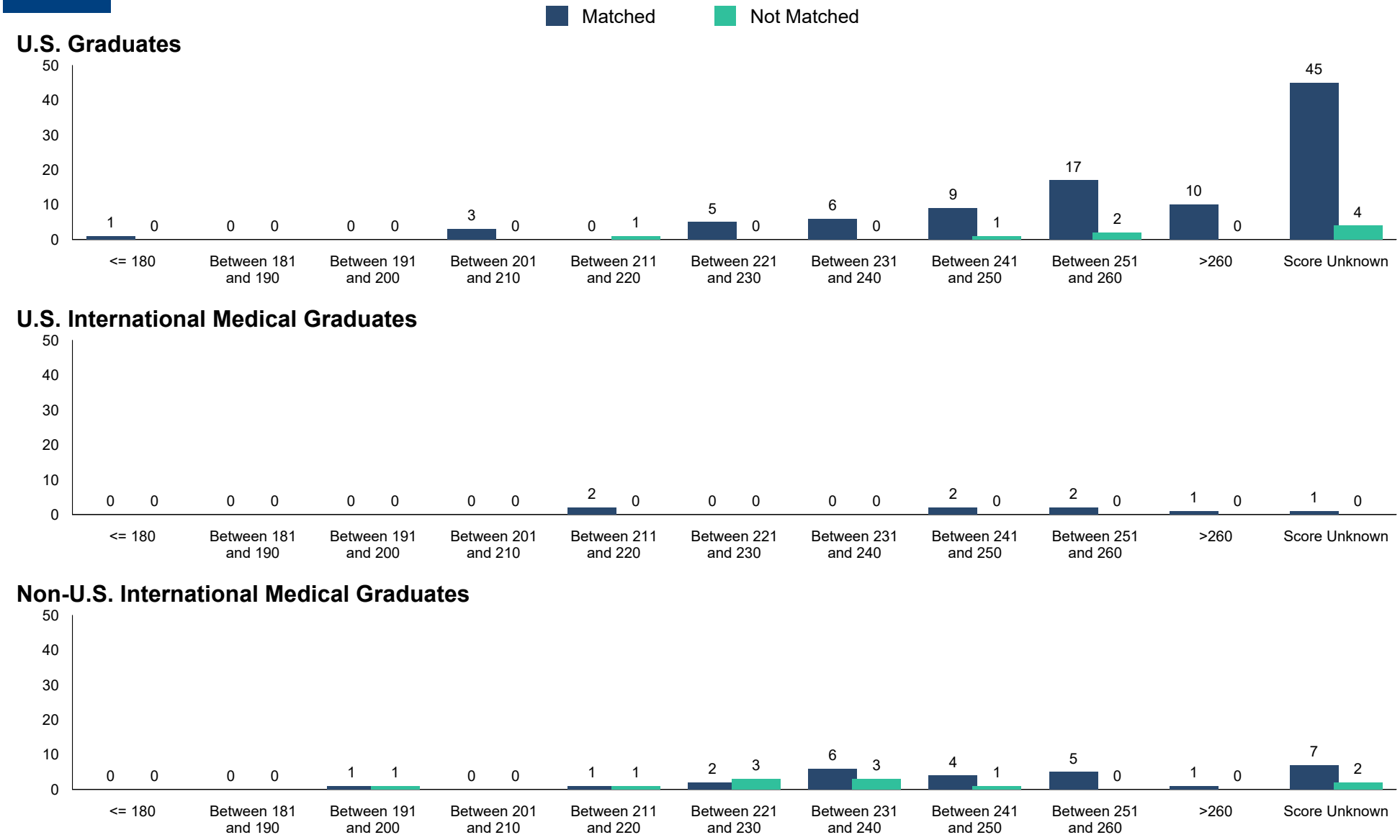
Chart-4 USMLE Step 2 Scores

Pediatric Cardiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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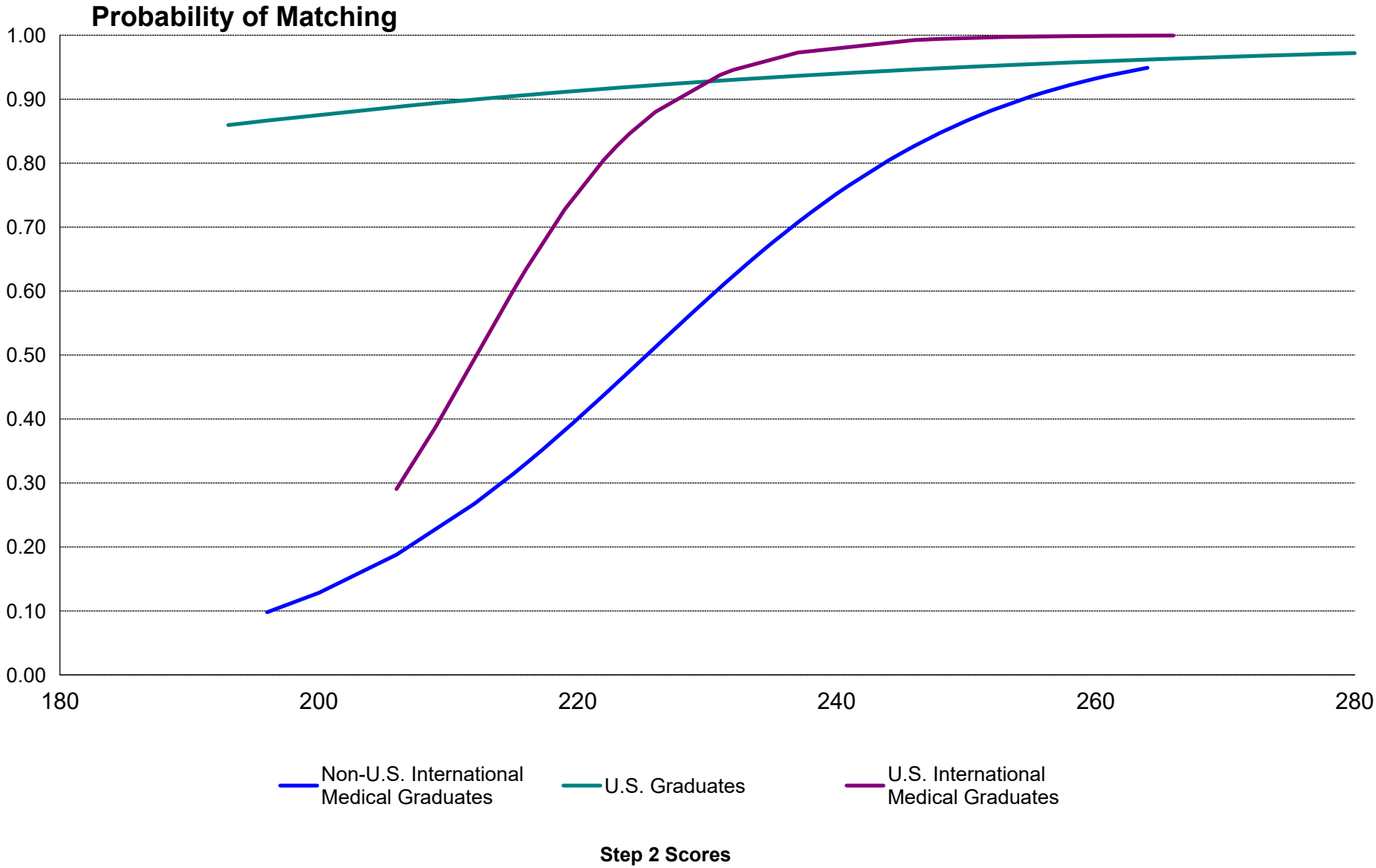
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Pediatric Cardiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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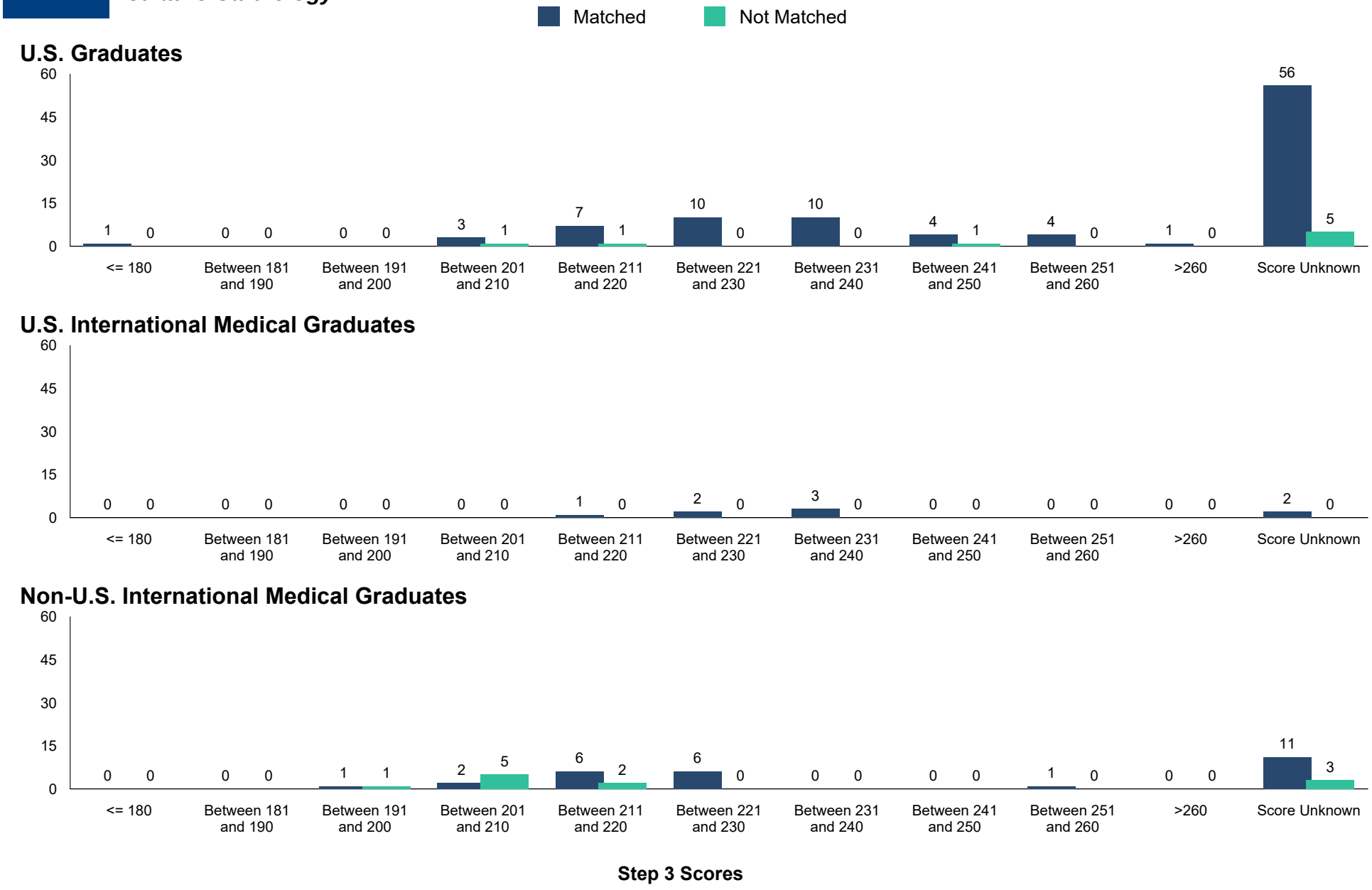
Chart-5 USMLE Step 3 Scores
Pediatric Cardiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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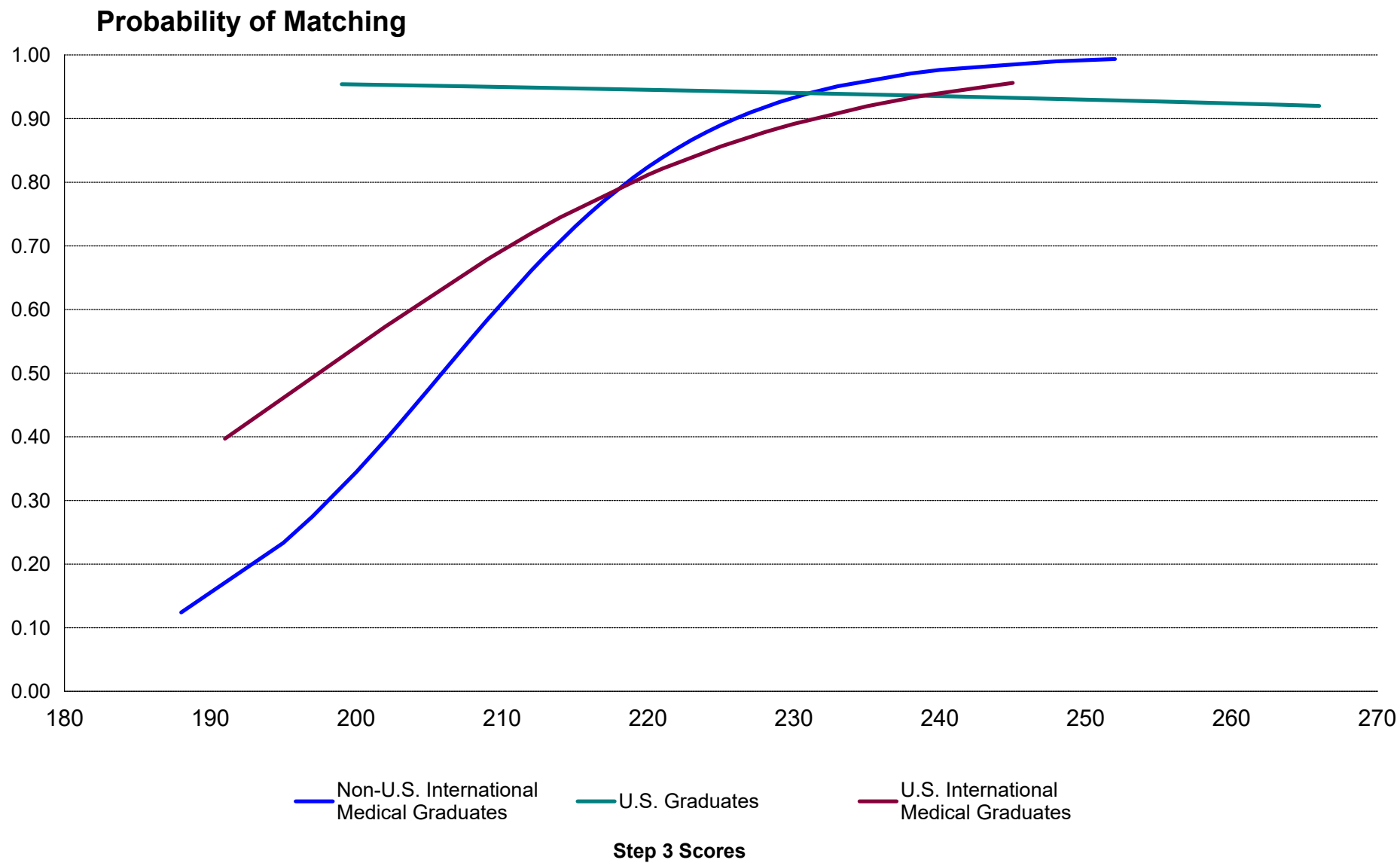
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Pediatric Cardiology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects
Pediatric Cardiology

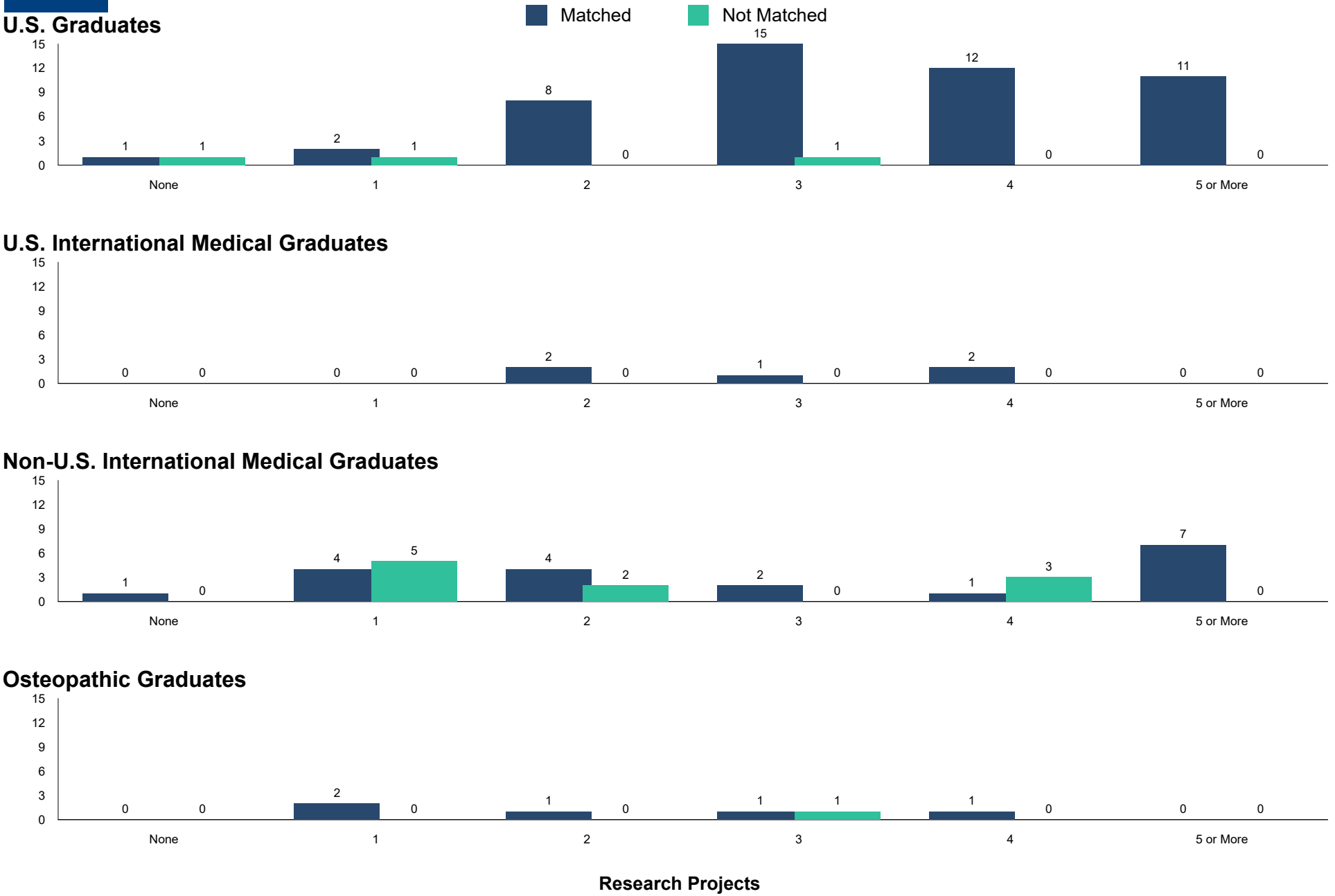

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Chart-7 Number of Abstracts, Presentations, and Publications

Pediatric Cardiology

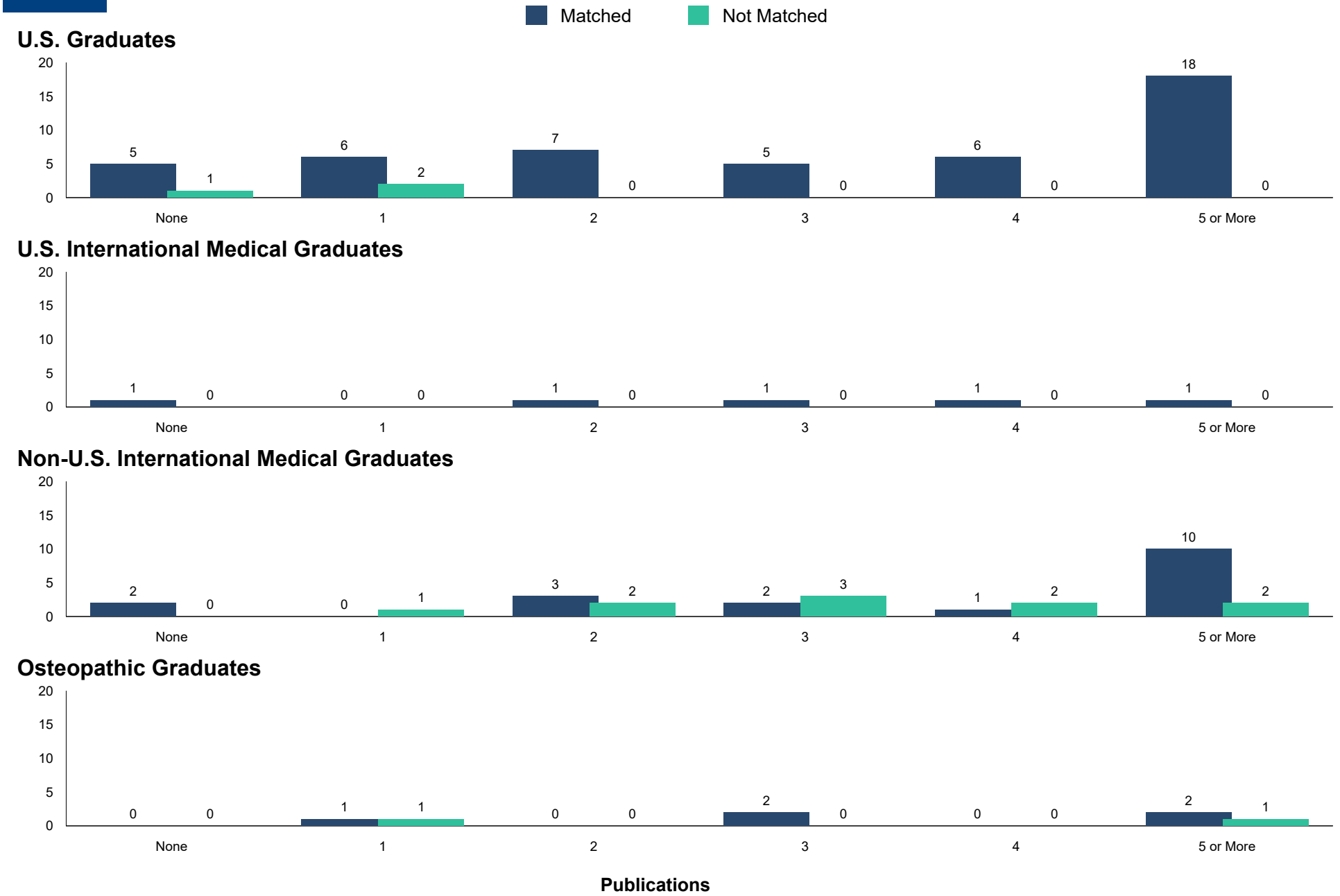

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Chart-8 Number of Work Experiences

Pediatric Cardiology

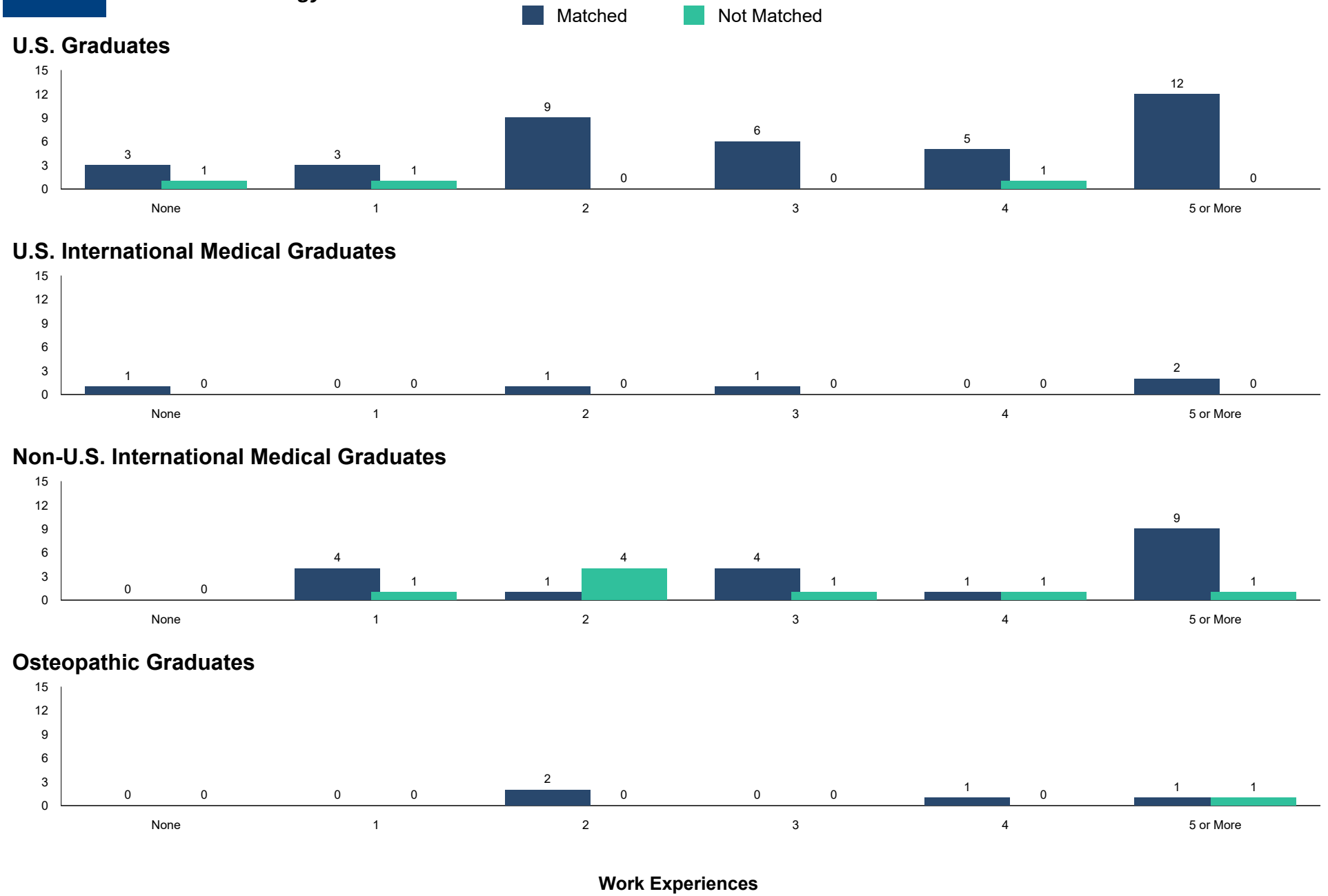

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Chart-9 Number of Volunteer Experiences

Pediatric Cardiology

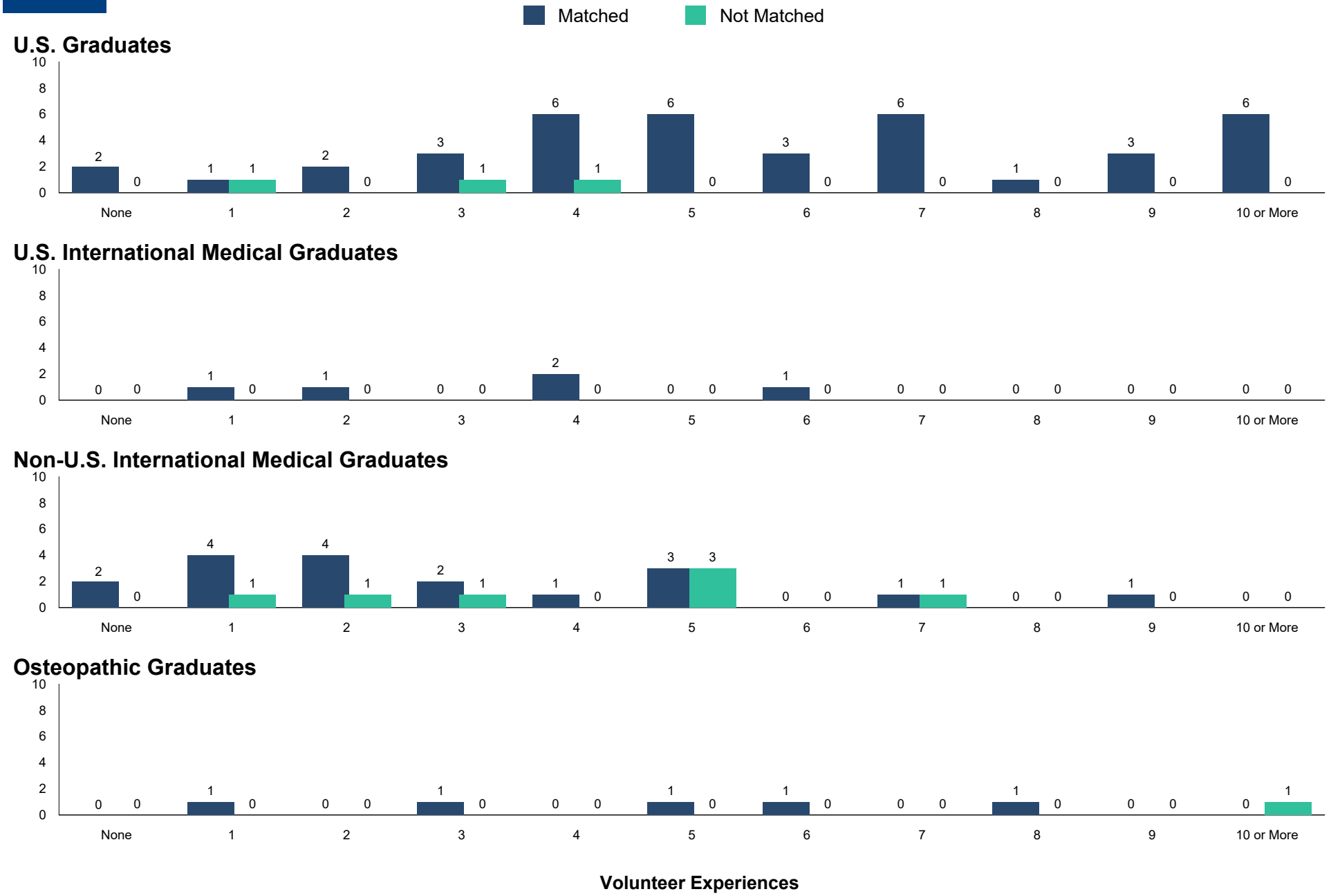

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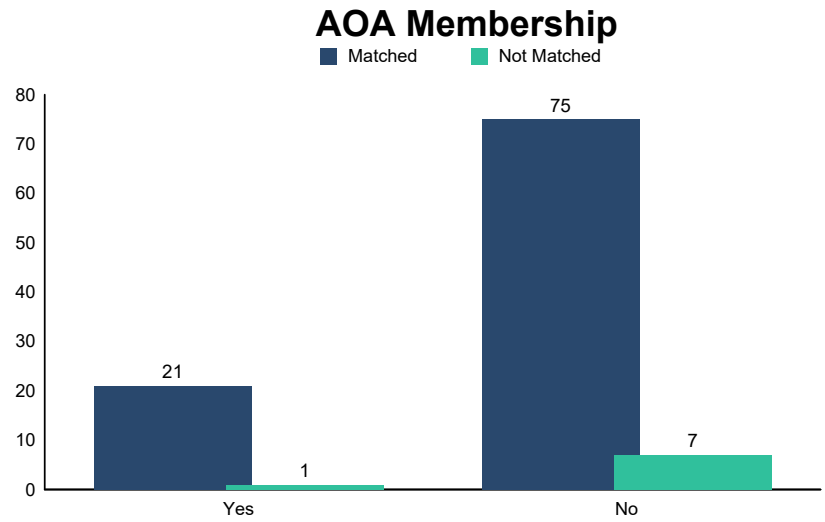
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Pediatric Cardiology



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Pediatric Critical Care Medicine

Table-1 Summary Statistics
Pediatric Critical Care Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=117)	Unmatched (n=16)	Matched (n=14)	Unmatched (n=0)	Matched (n=36)	Unmatched (n=5)	Matched (n=10)	Unmatched (n=3)
1.	Mean number of contiguous ranks	7.1	5.4	8.2	n/a	9.2	2.8	9.0	5.7
2.	Mean number of distinct specialties ranked	1.0	1.1	1.0	n/a	1.1	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	235	221	225	n/a	235	208	n/a	n/a
4.	Mean USMLE Step 2 score	247	235	234	n/a	241	212	n/a	n/a
5.	Mean USMLE Step 3 score	229	219	218	n/a	222	194	n/a	n/a
6.	Mean number of research experiences	4.1	4.7	2.7	n/a	3.9	2.0	3.4	1.0
7.	Mean number of abstracts, presentations, and publications	5.9	6.3	5.2	n/a	5.4	15.0	6.1	0.0
8.	Mean number of work experiences	3.3	4.4	4.7	n/a	3.3	4.0	3.2	0.0
9.	Mean number of volunteer experiences	7.1	6.3	4.6	n/a	4.9	2.0	4.6	4.0
10.	Percentage who are AOA members	22.2	6.3	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

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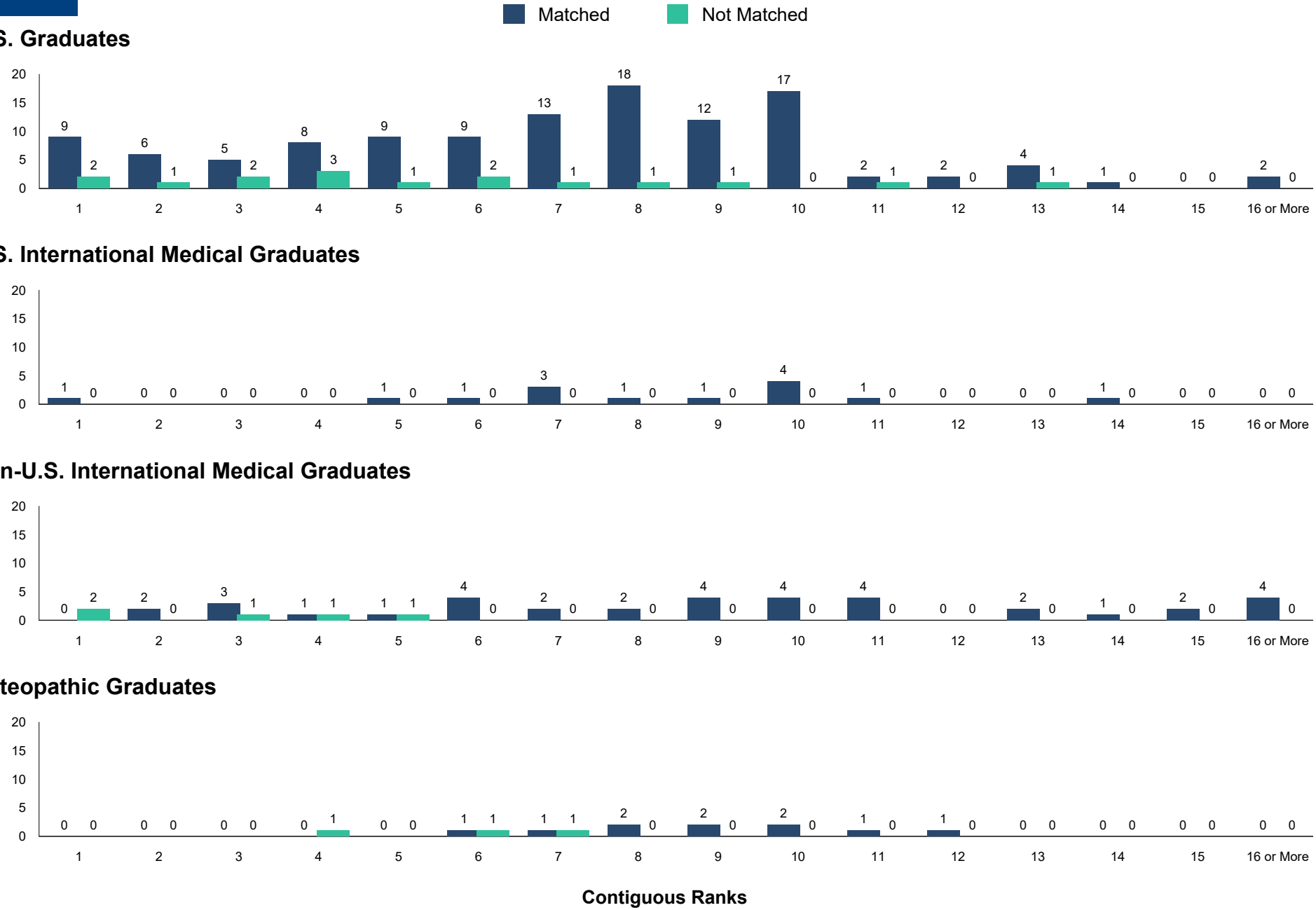
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Pediatric Critical Care Medicine



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pediatric Critical Care Medicine

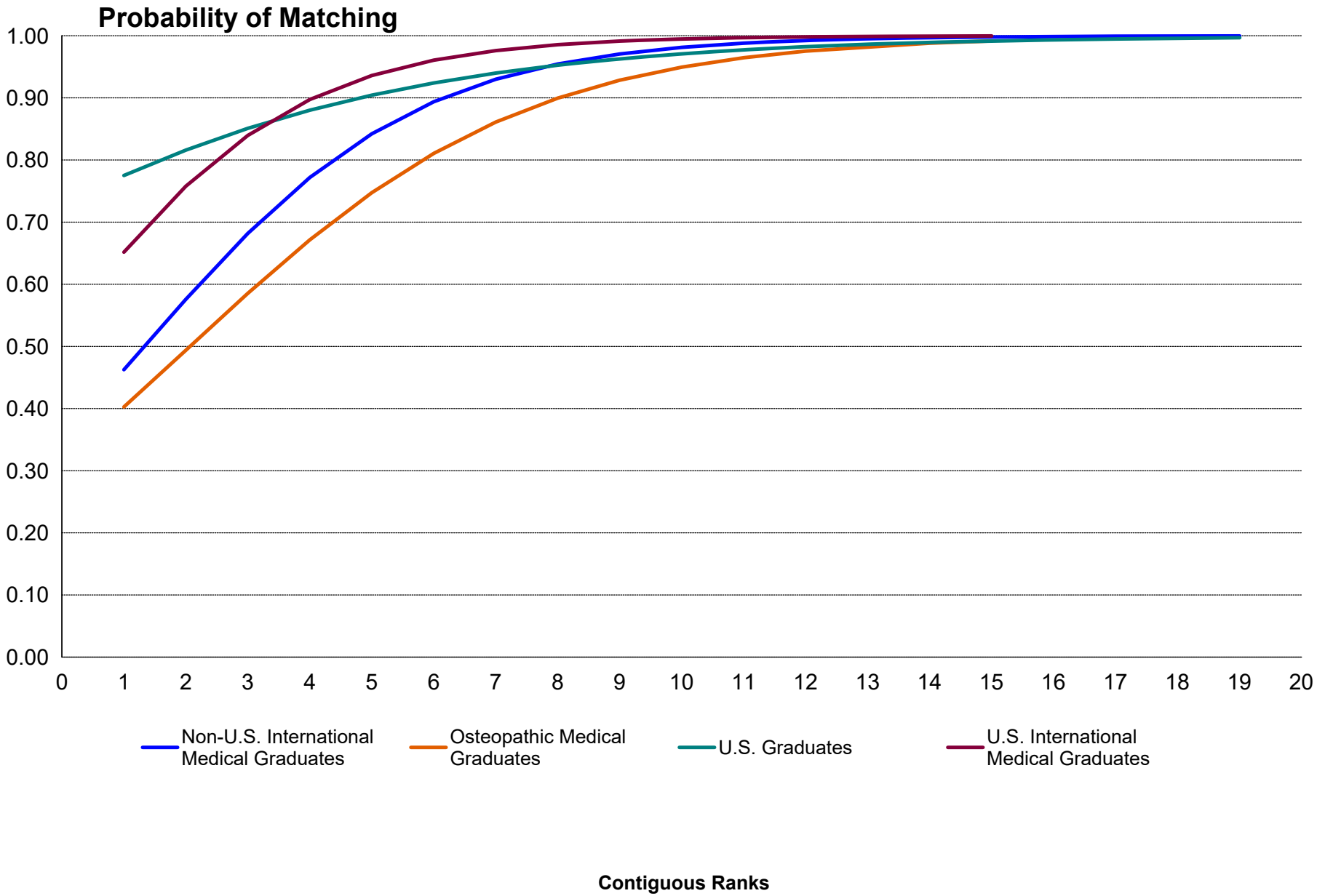

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Chart-2 Number of Distinct Specialties Ranked

Pediatric Critical Care Medicine

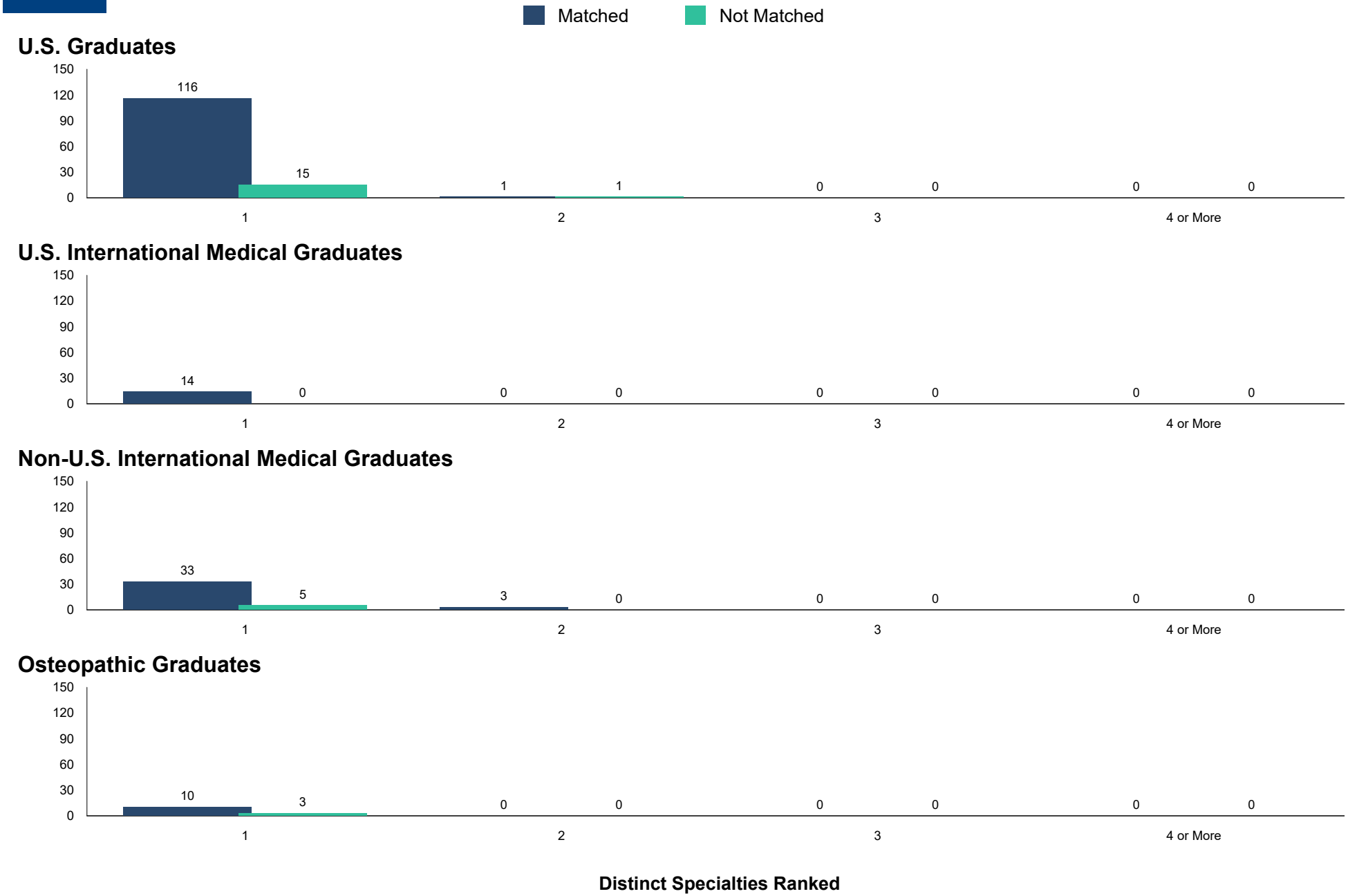

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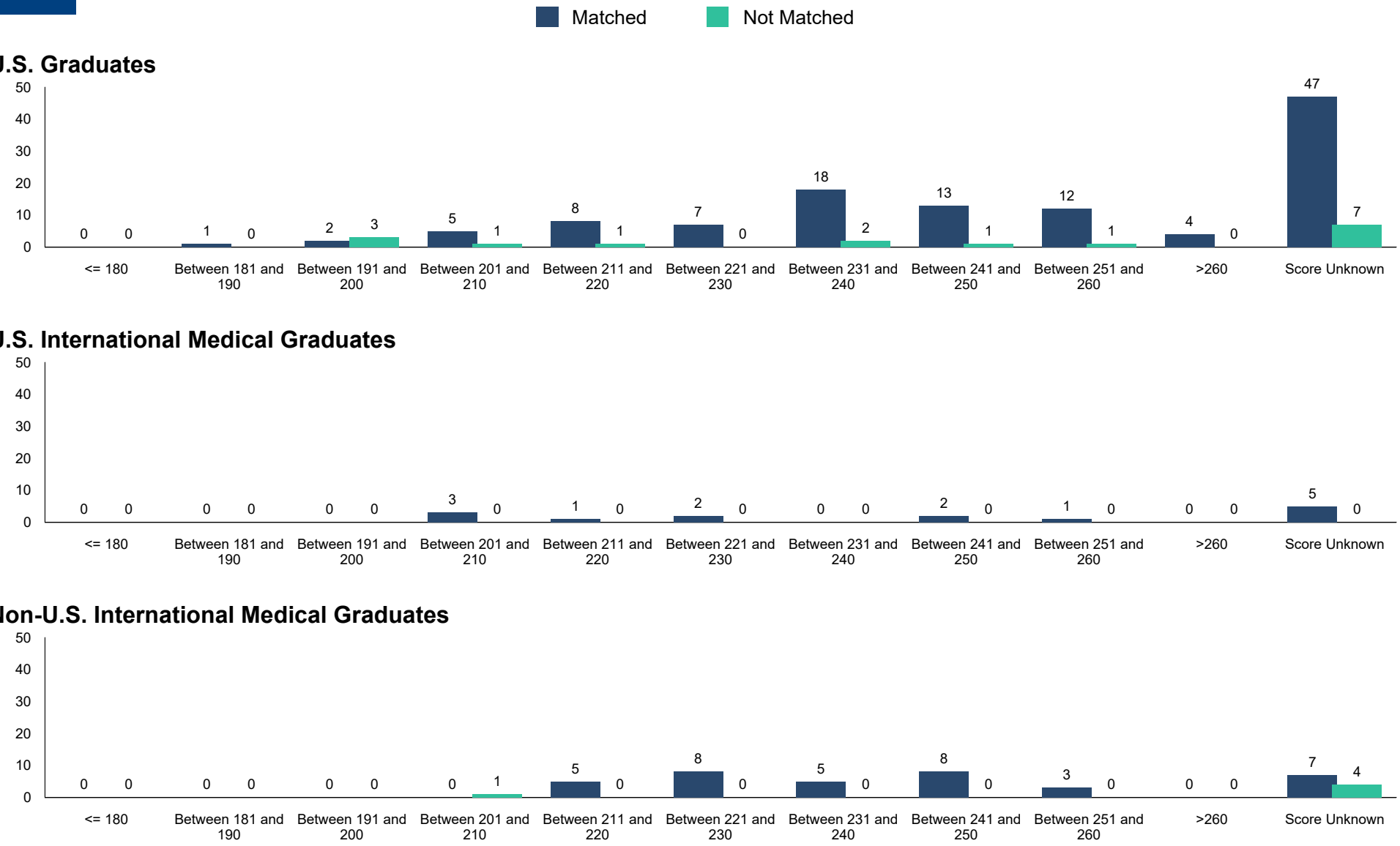
Chart-3 USMLE Step 1 Scores

Pediatric Critical Care Medicine



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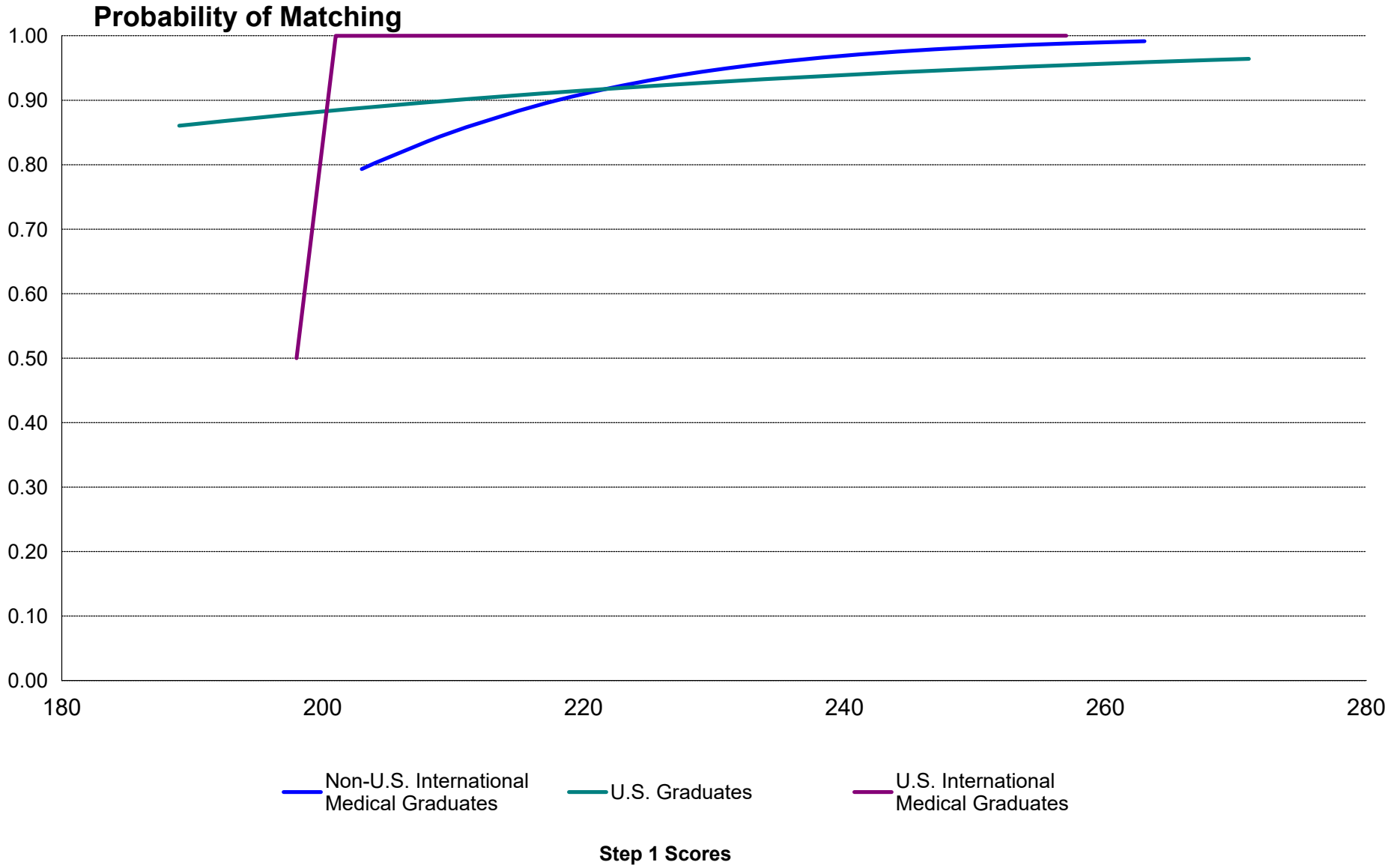
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pediatric Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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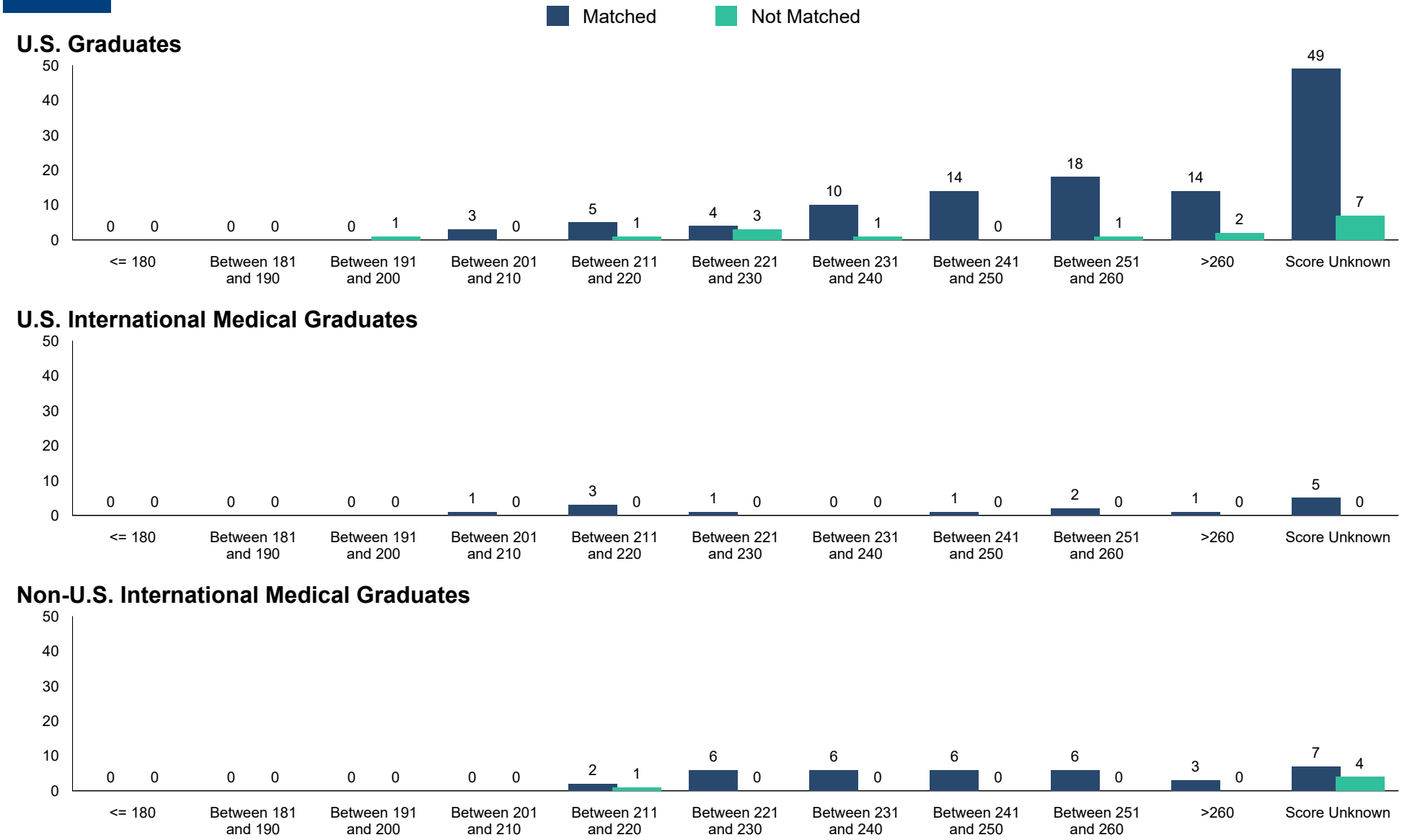
Chart-4 USMLE Step 2 Scores

Pediatric Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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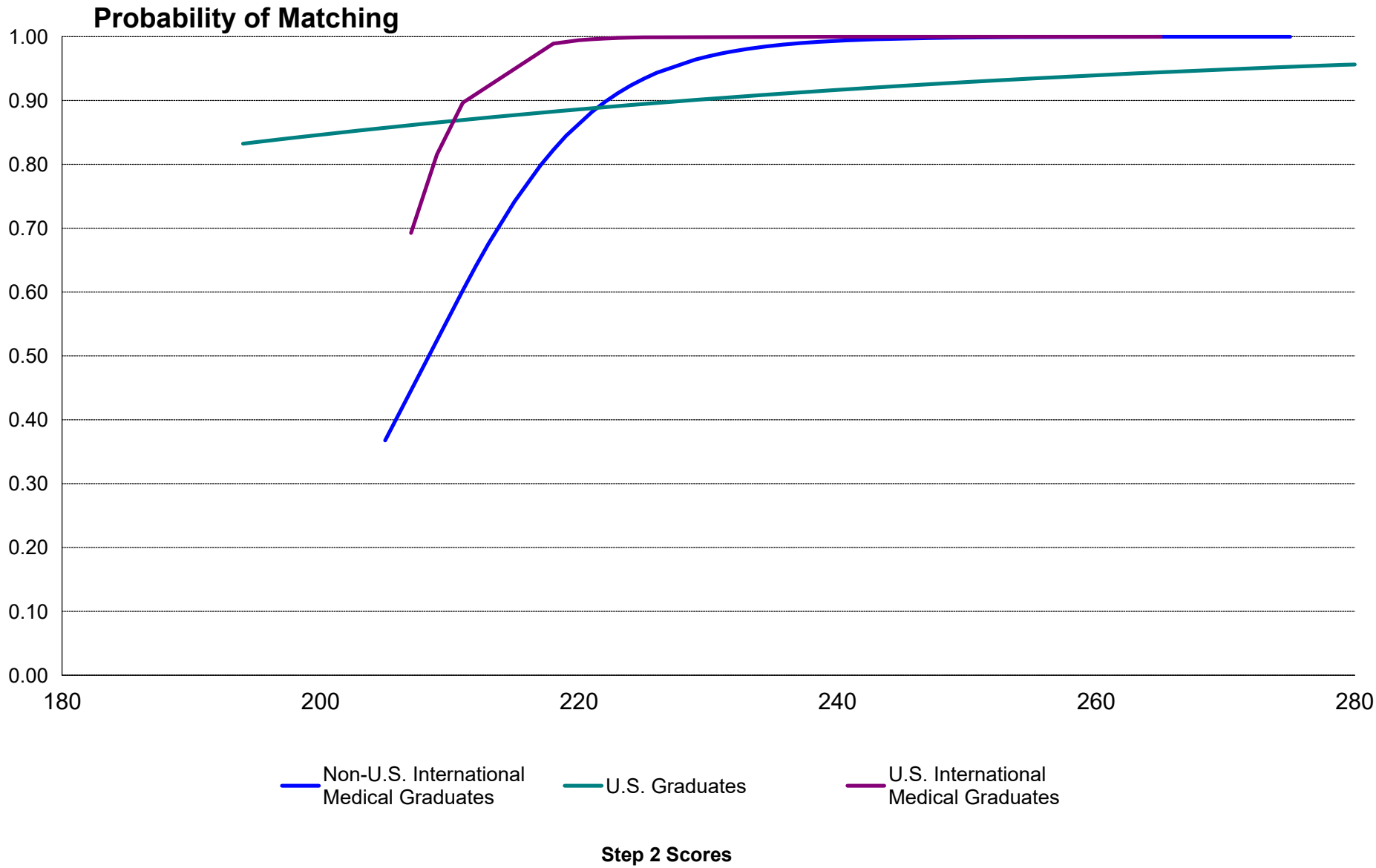
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Pediatric Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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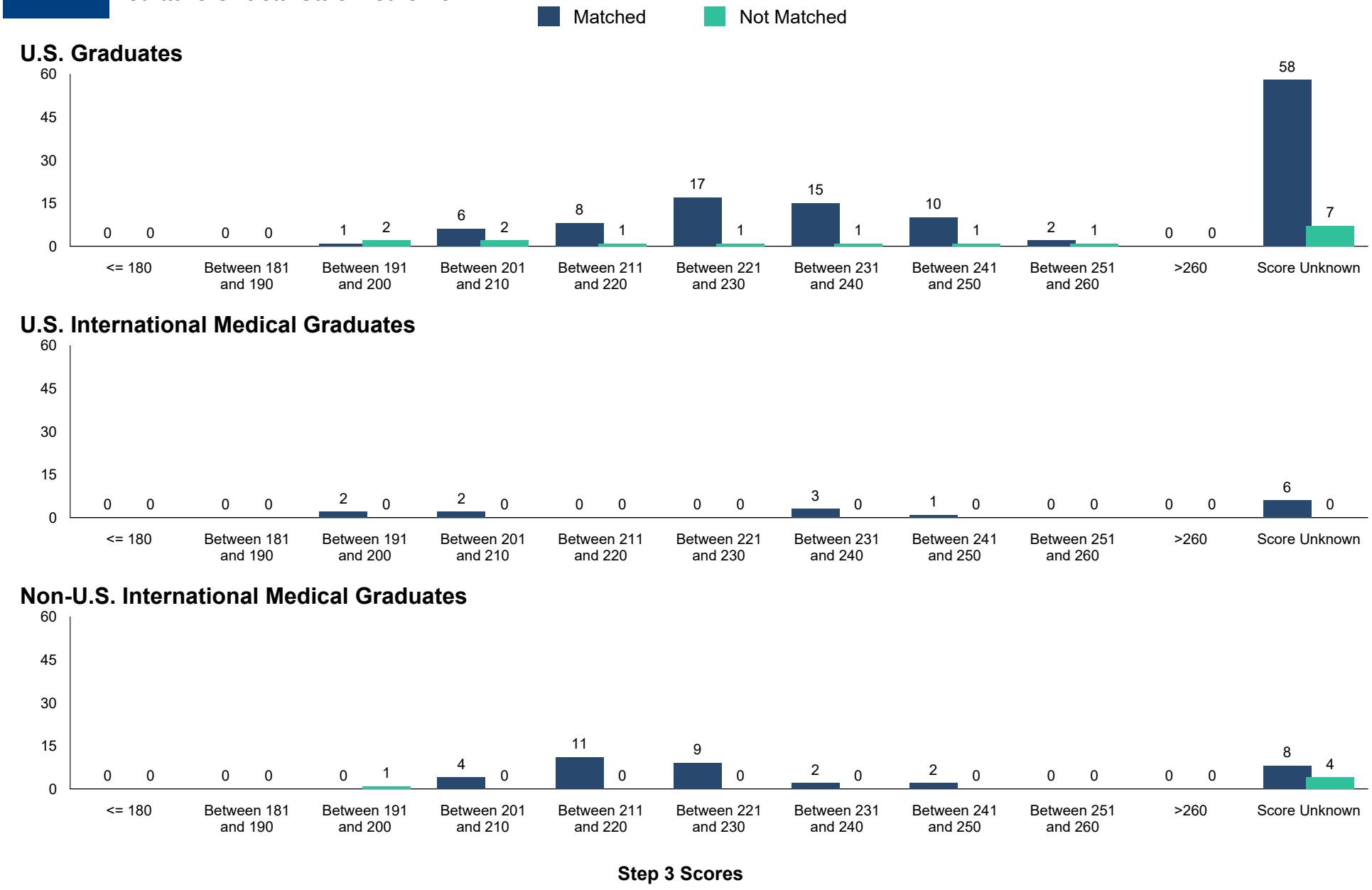
Chart-5 USMLE Step 3 Scores

Pediatric Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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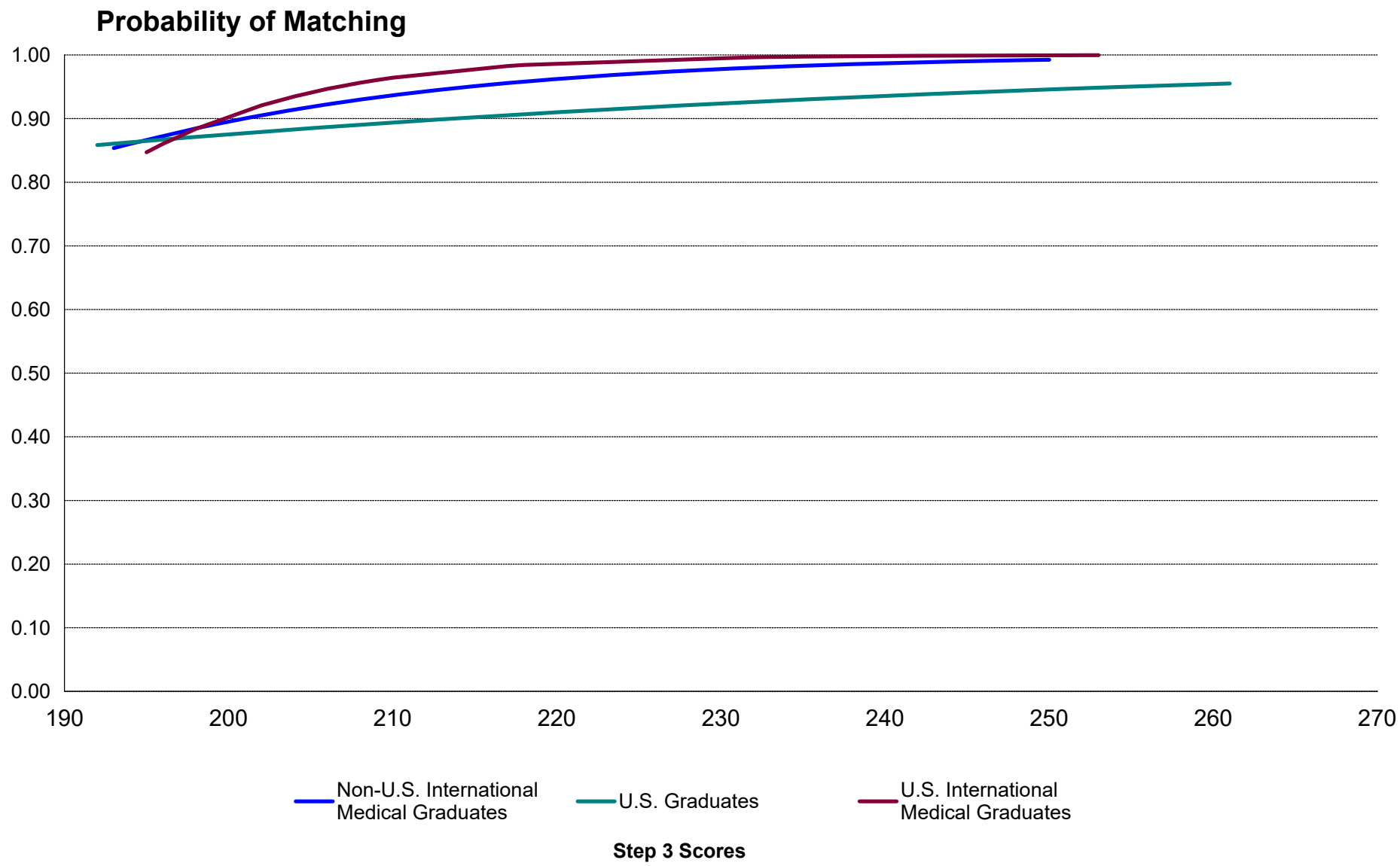
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Pediatric Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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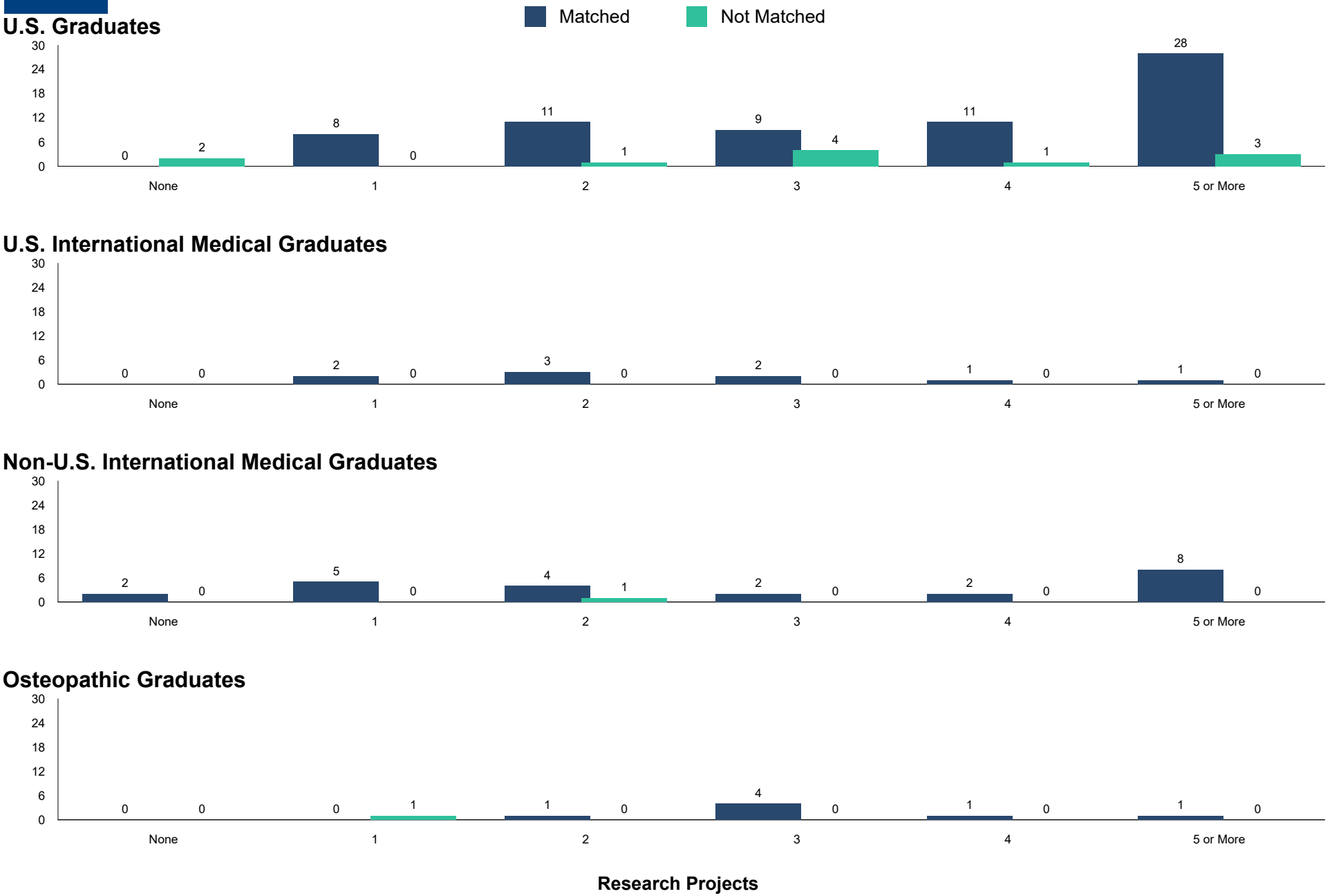
Chart-6 Number of Research Projects

Pediatric Critical Care Medicine



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Pediatric Critical Care Medicine

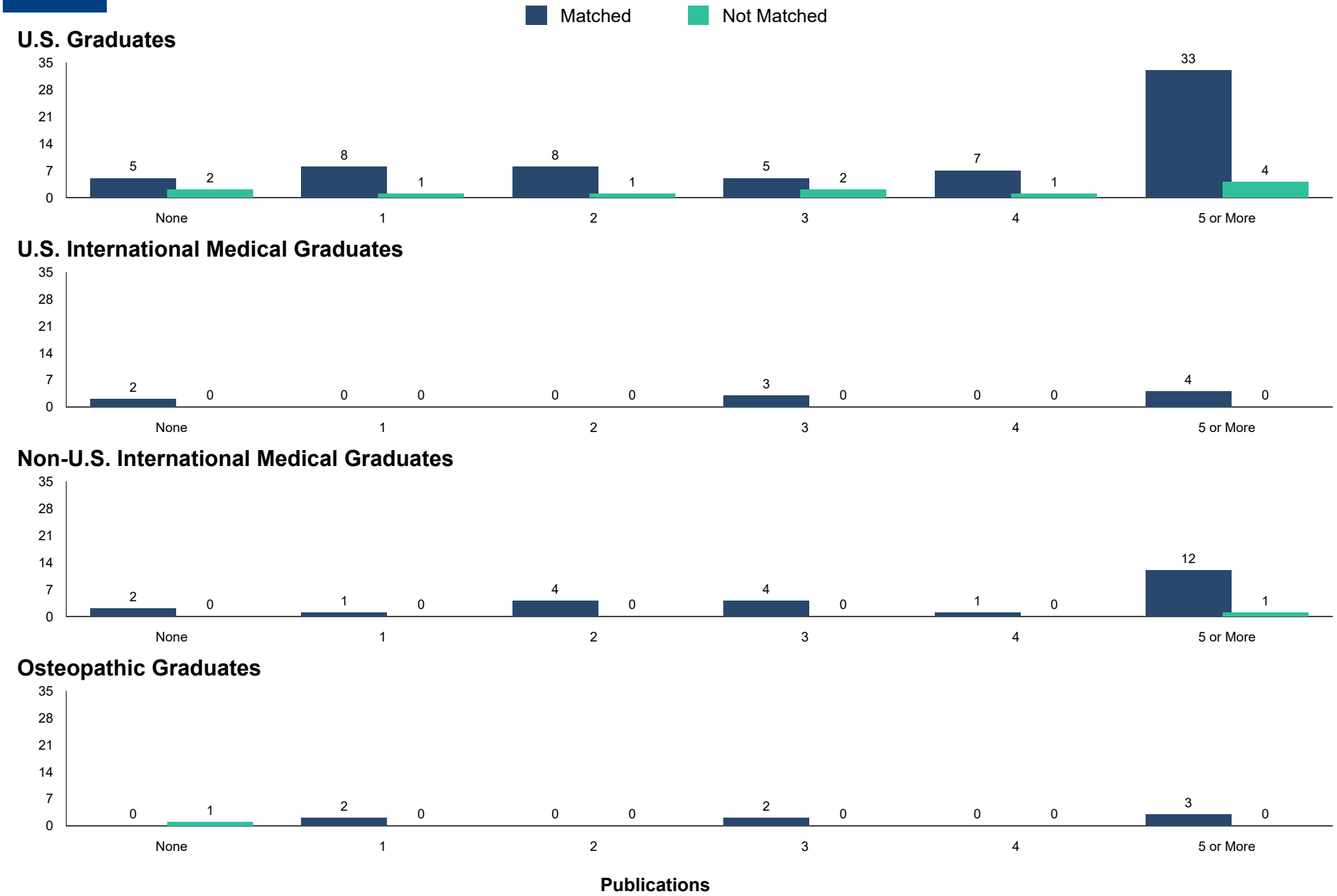

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Chart-8 Number of Work Experiences

Pediatric Critical Care Medicine

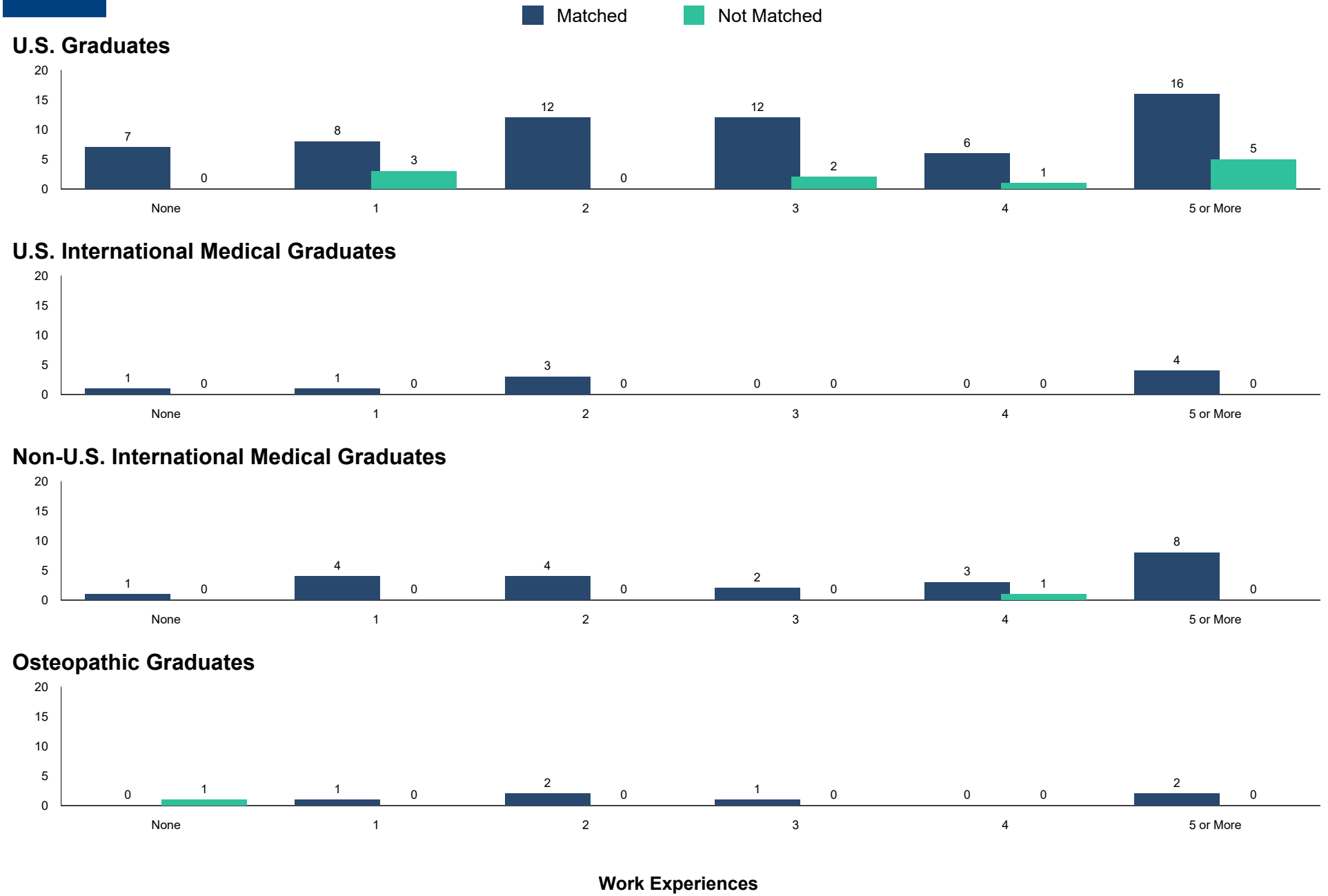

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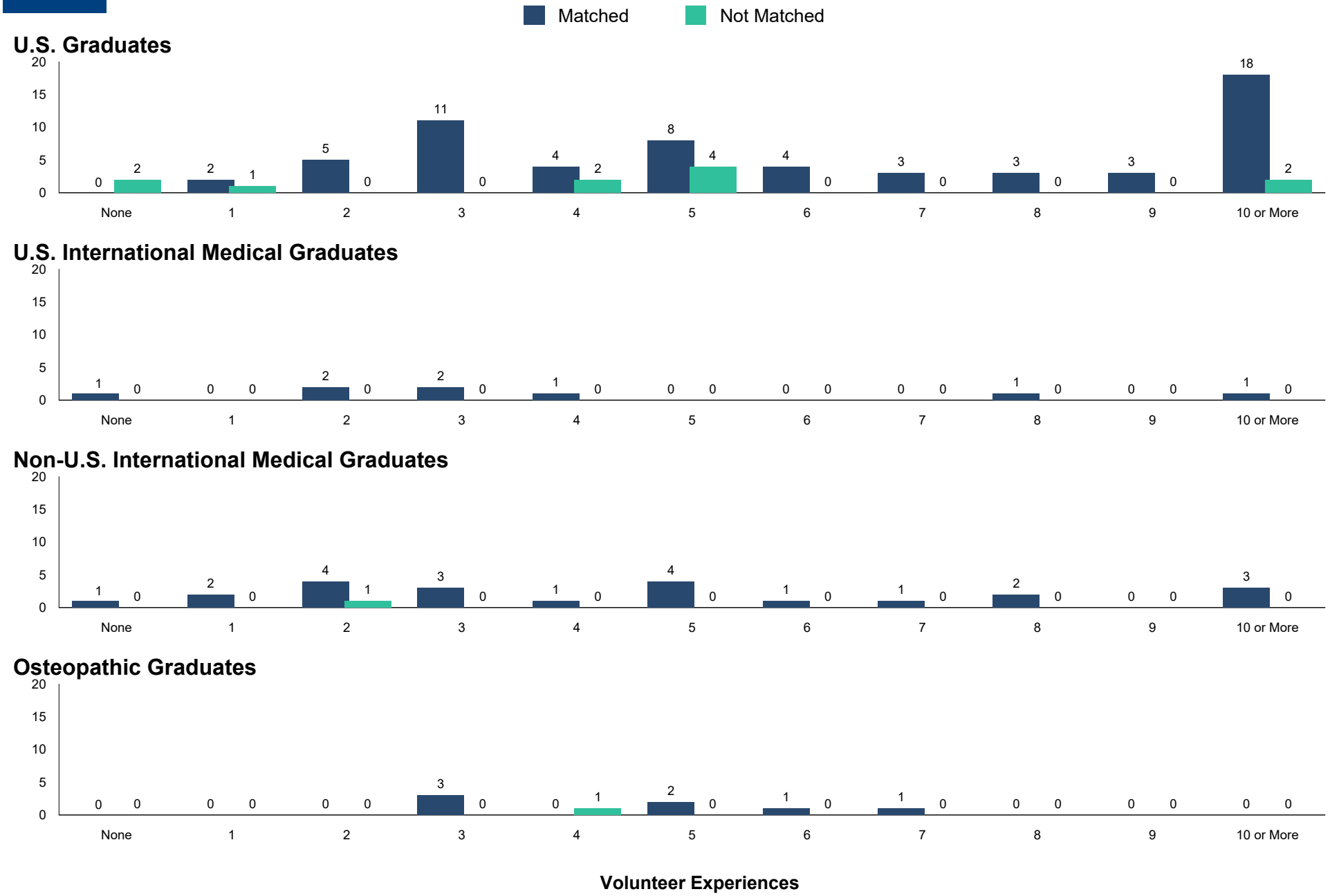
Chart-9 Number of Volunteer Experiences

Pediatric Critical Care Medicine



Source: NRMP Data Warehouse

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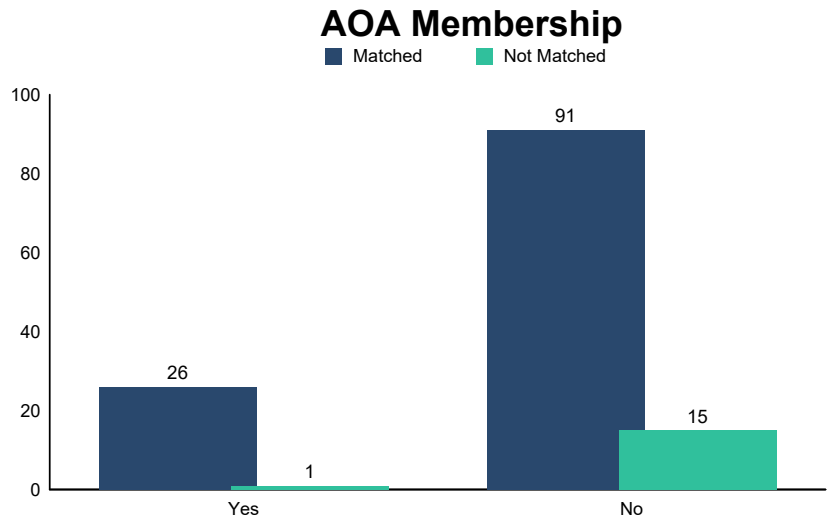
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Pediatric Critical Care Medicine



Source: NRMP Data Warehouse

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Pediatric Emergency Medicine

Table-1 Summary Statistics
Pediatric Emergency Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=118)	Unmatched (n=27)	Matched (n=21)	Unmatched (n=8)	Matched (n=14)	Unmatched (n=6)	Matched (n=25)	Unmatched (n=10)
1.	Mean number of contiguous ranks	4.0	2.3	2.8	2.8	2.8	1.5	2.8	2.3
2.	Mean number of distinct specialties ranked	1.6	1.3	1.8	1.9	1.8	1.8	1.8	1.5
3.	Mean USMLE Step 1 score	230	221	217	226	223	226	n/a	n/a
4.	Mean USMLE Step 2 score	243	240	230	232	242	243	n/a	n/a
5.	Mean USMLE Step 3 score	227	220	210	209	218	213	n/a	n/a
6.	Mean number of research experiences	3.3	3.0	3.2	2.7	3.8	2.4	1.3	3.2
7.	Mean number of abstracts, presentations, and publications	4.3	3.1	4.4	1.8	5.7	7.8	4.9	4.7
8.	Mean number of work experiences	3.8	3.1	2.5	2.5	3.1	2.8	2.3	3.2
9.	Mean number of volunteer experiences	6.9	7.5	5.1	5.0	5.0	3.8	5.8	9.7
10.	Percentage who are AOA members	14.4	11.1	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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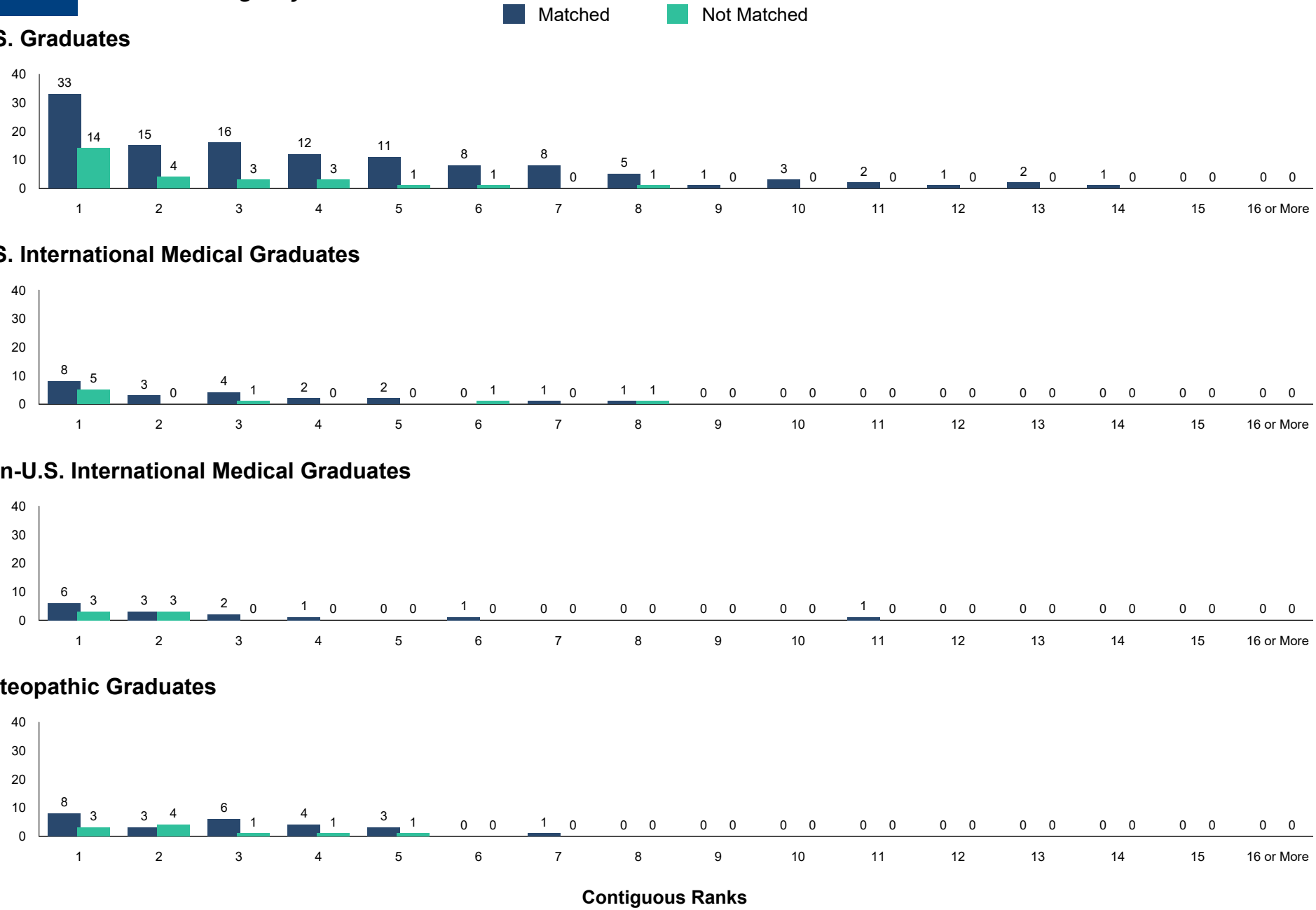
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Pediatric Emergency Medicine



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pediatric Emergency Medicine

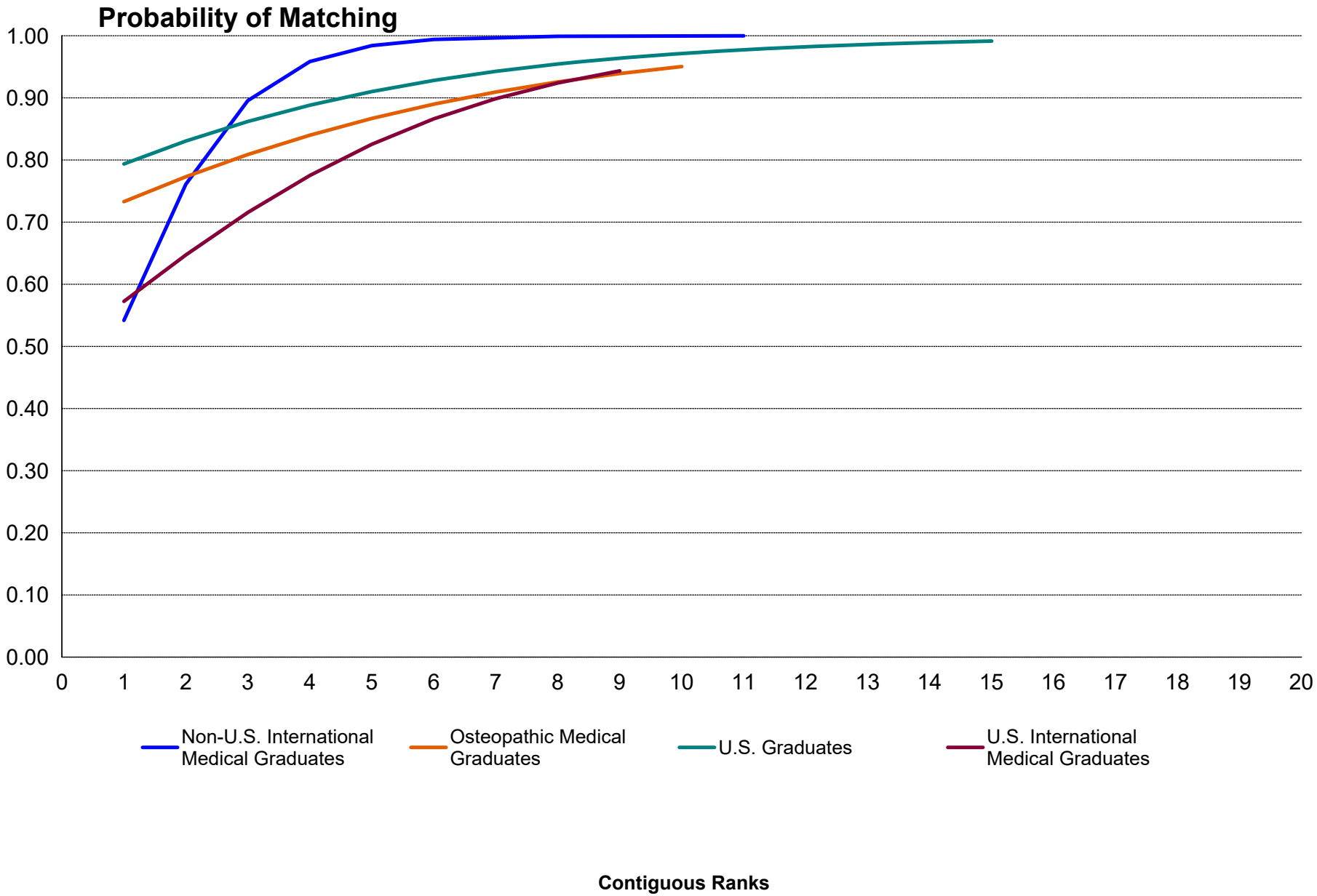

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Chart-2 Number of Distinct Specialties Ranked

Pediatric Emergency Medicine

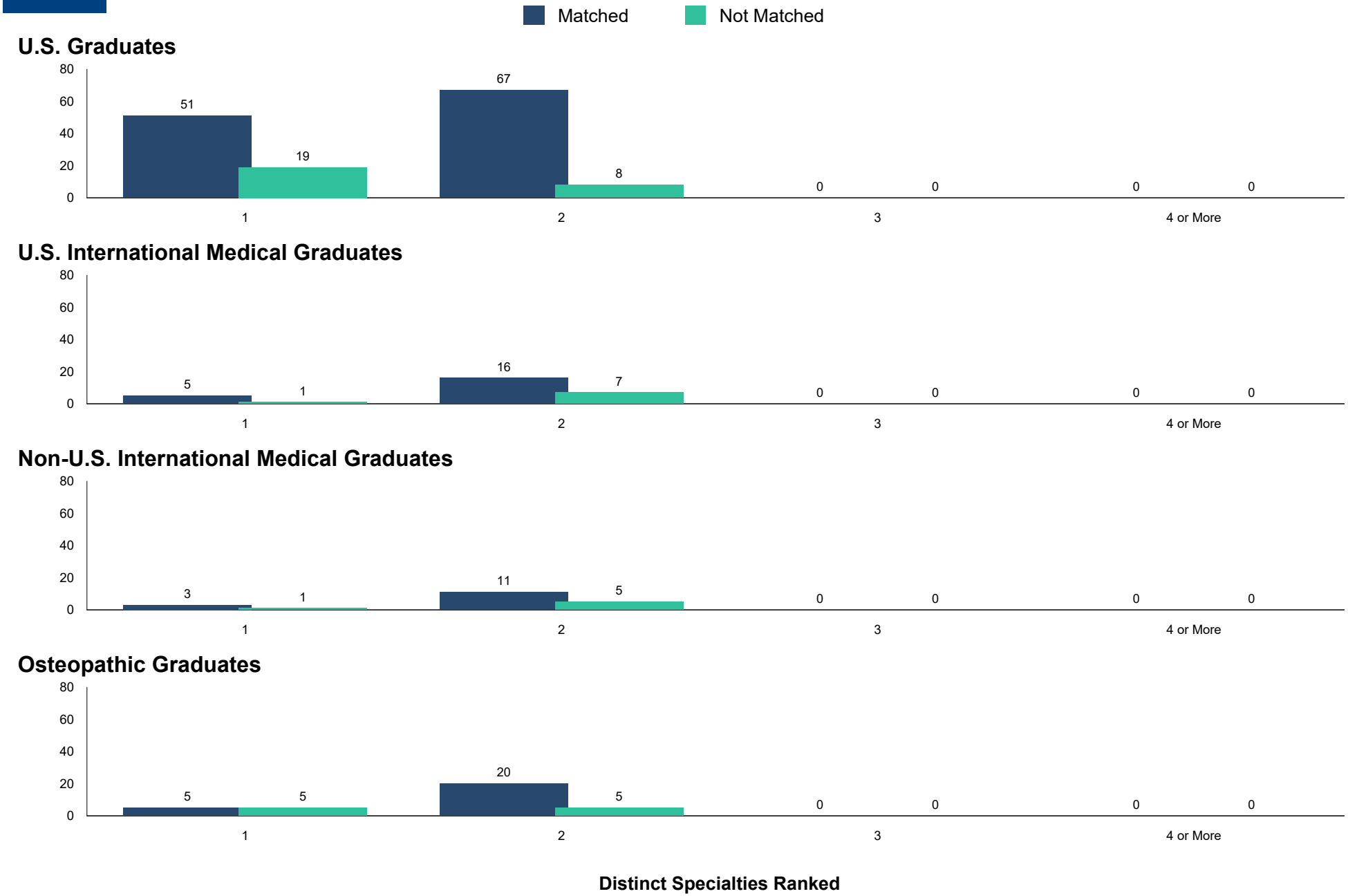

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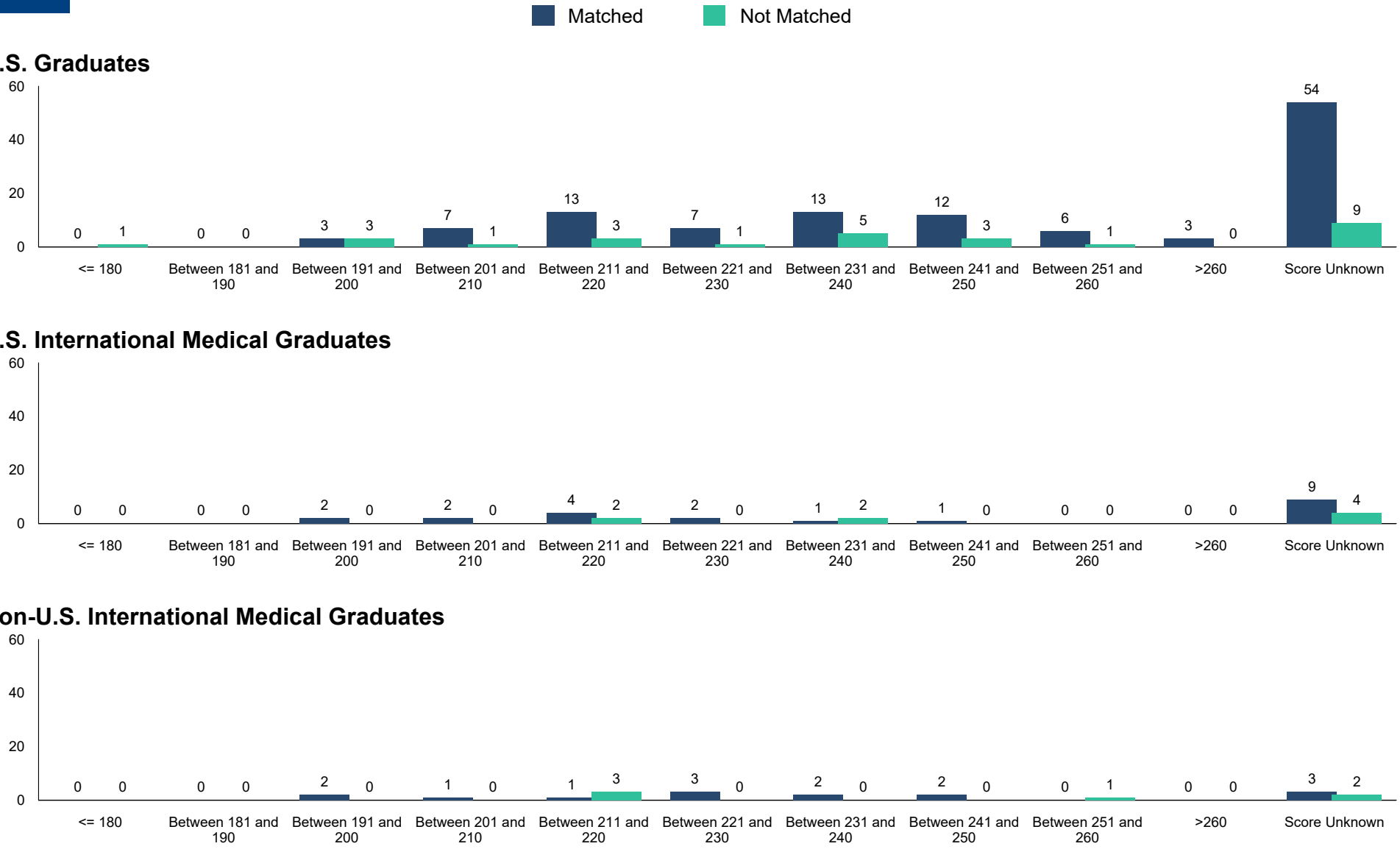
Chart-3 USMLE Step 1 Scores

Pediatric Emergency Medicine



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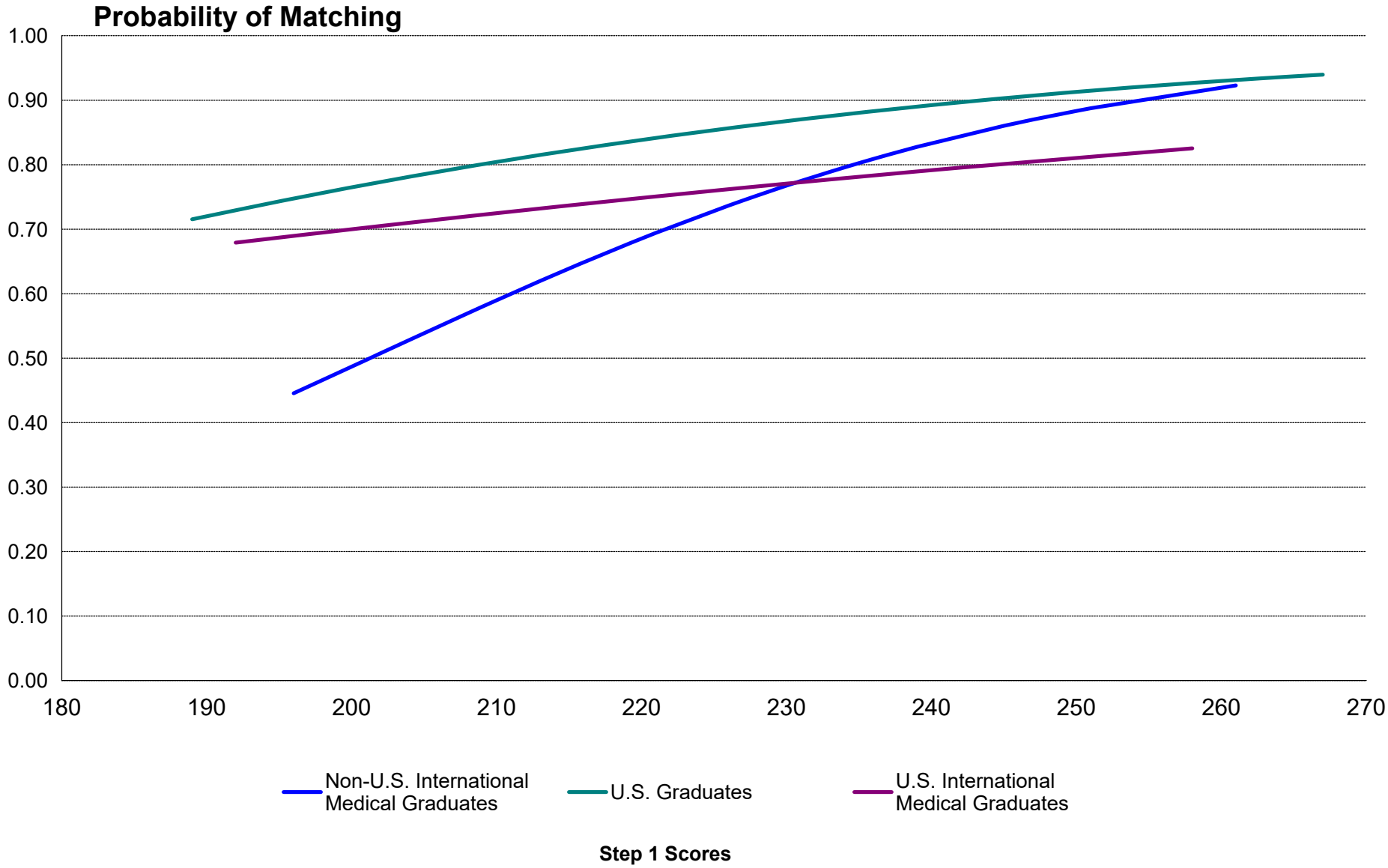
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pediatric Emergency Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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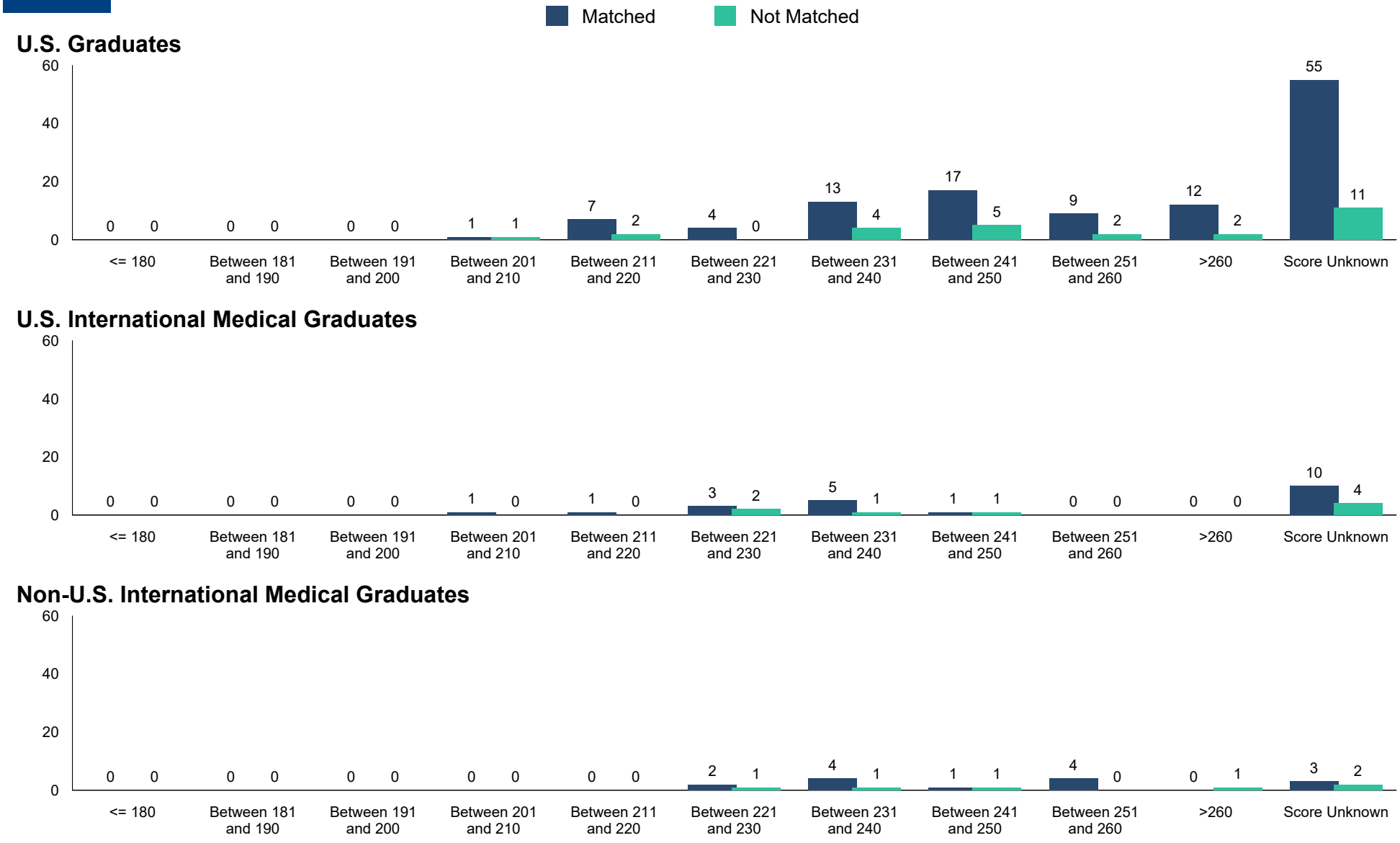
Chart-4 USMLE Step 2 Scores

Pediatric Emergency Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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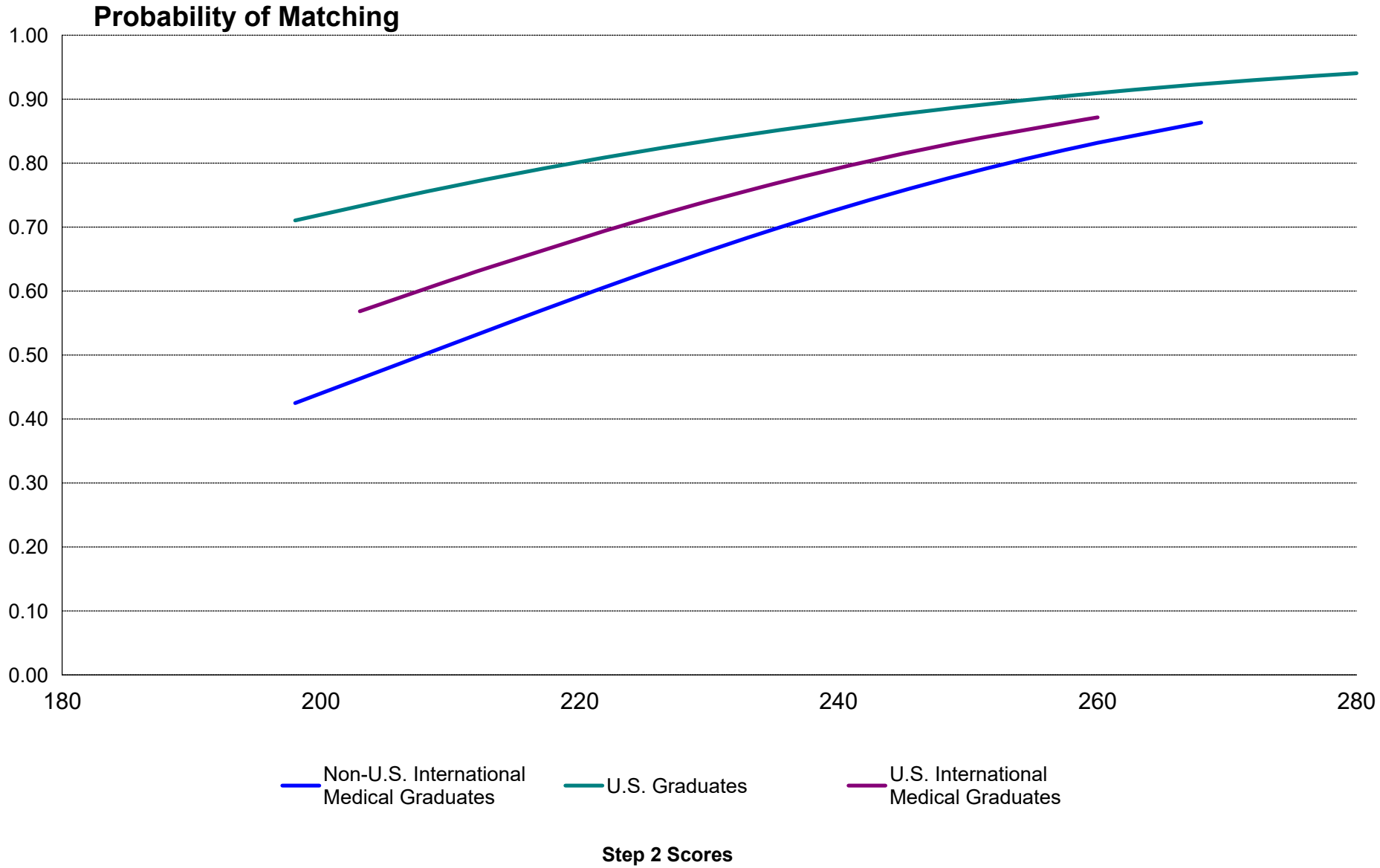
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Pediatric Emergency Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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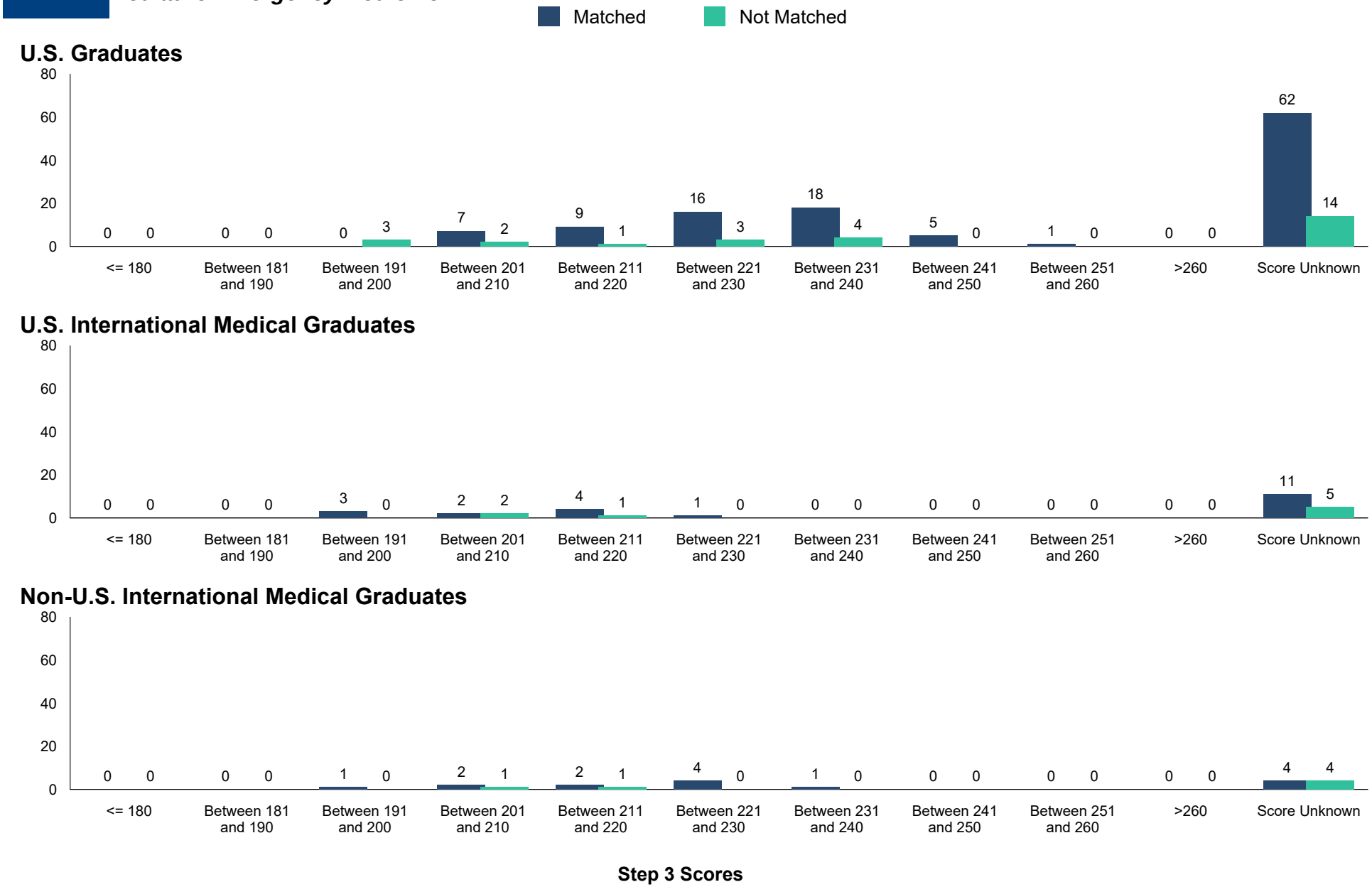
Chart-5 USMLE Step 3 Scores

Pediatric Emergency Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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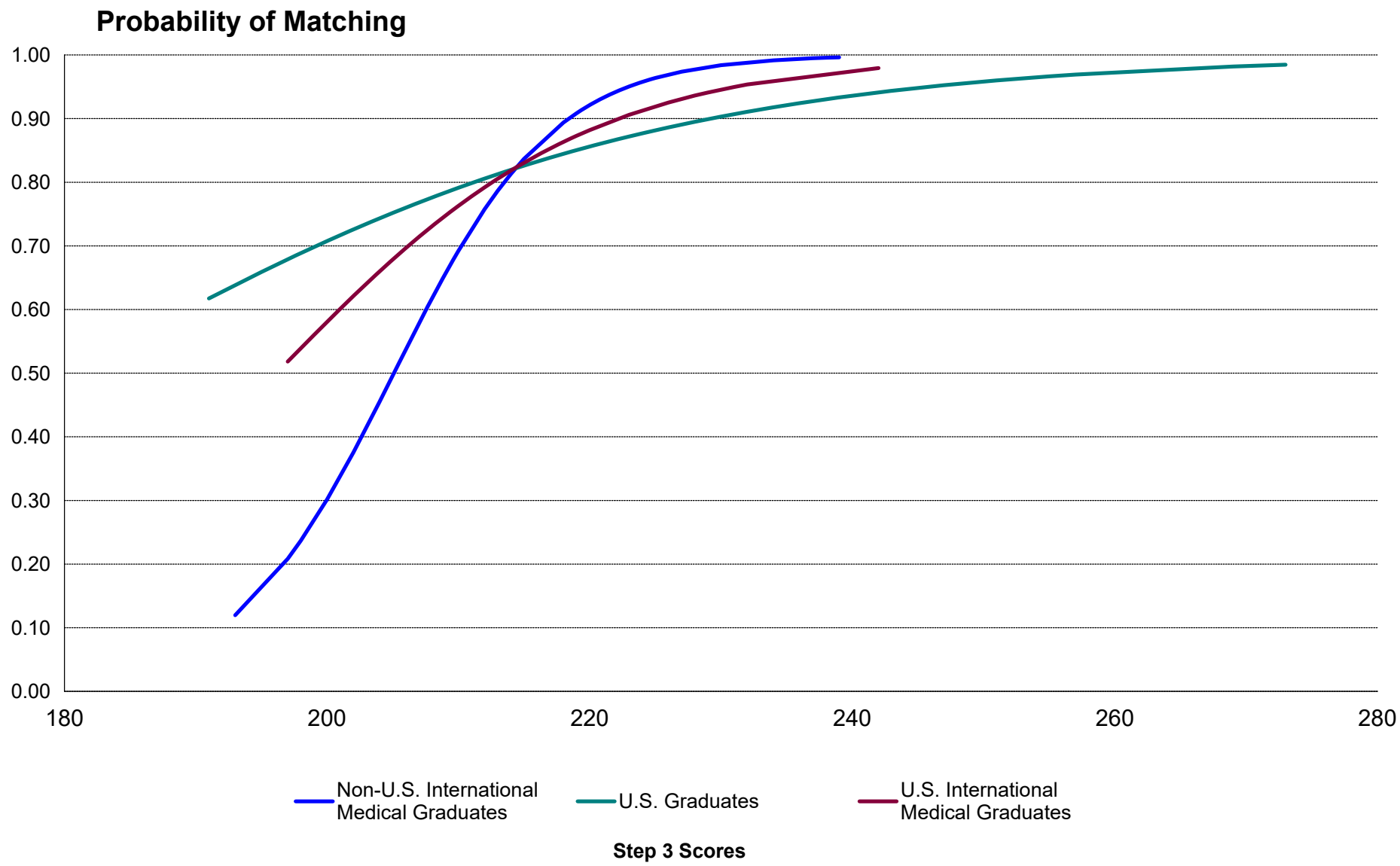
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Pediatric Emergency Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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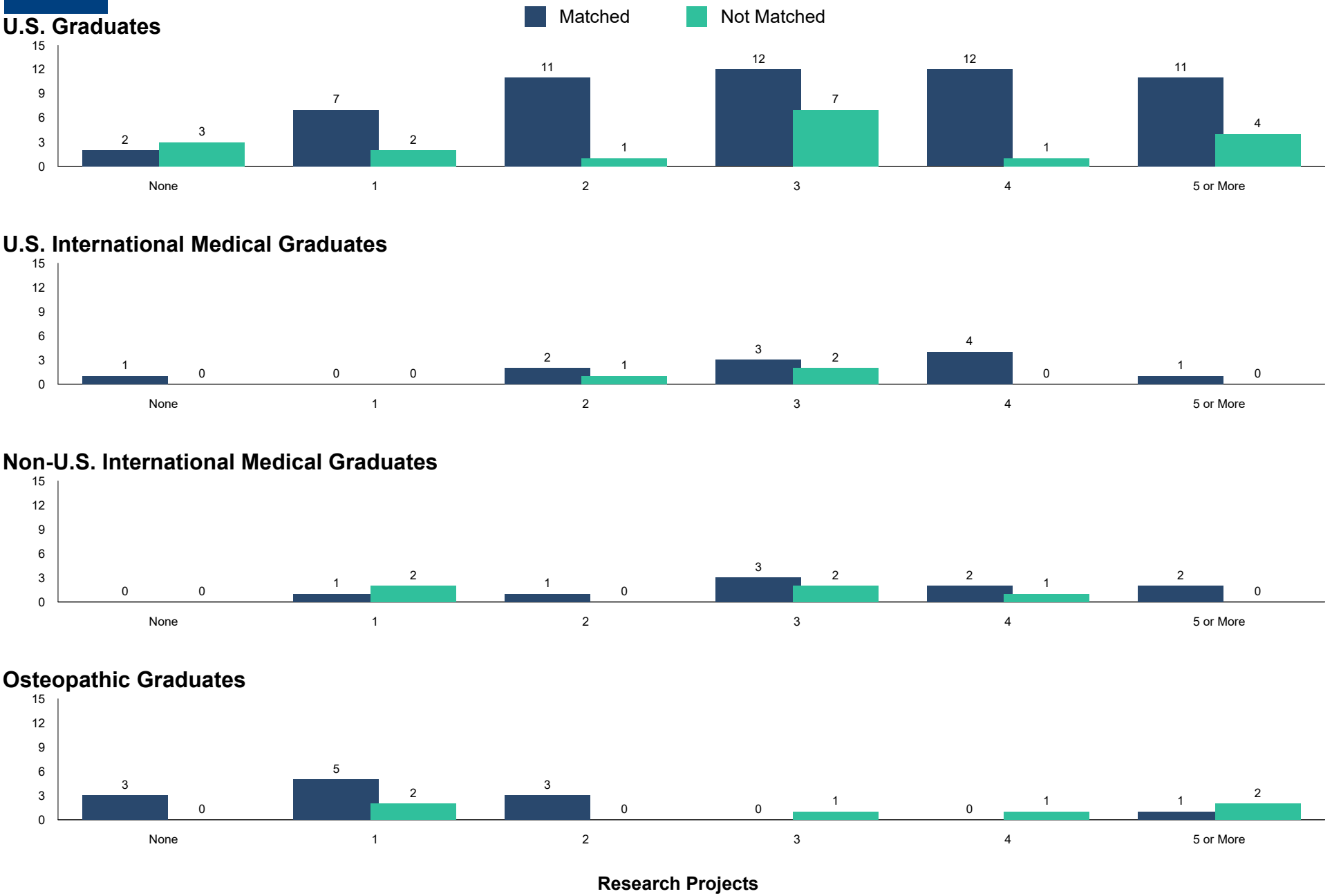
Chart-6 Number of Research Projects
Pediatric Emergency Medicine



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Pediatric Emergency Medicine

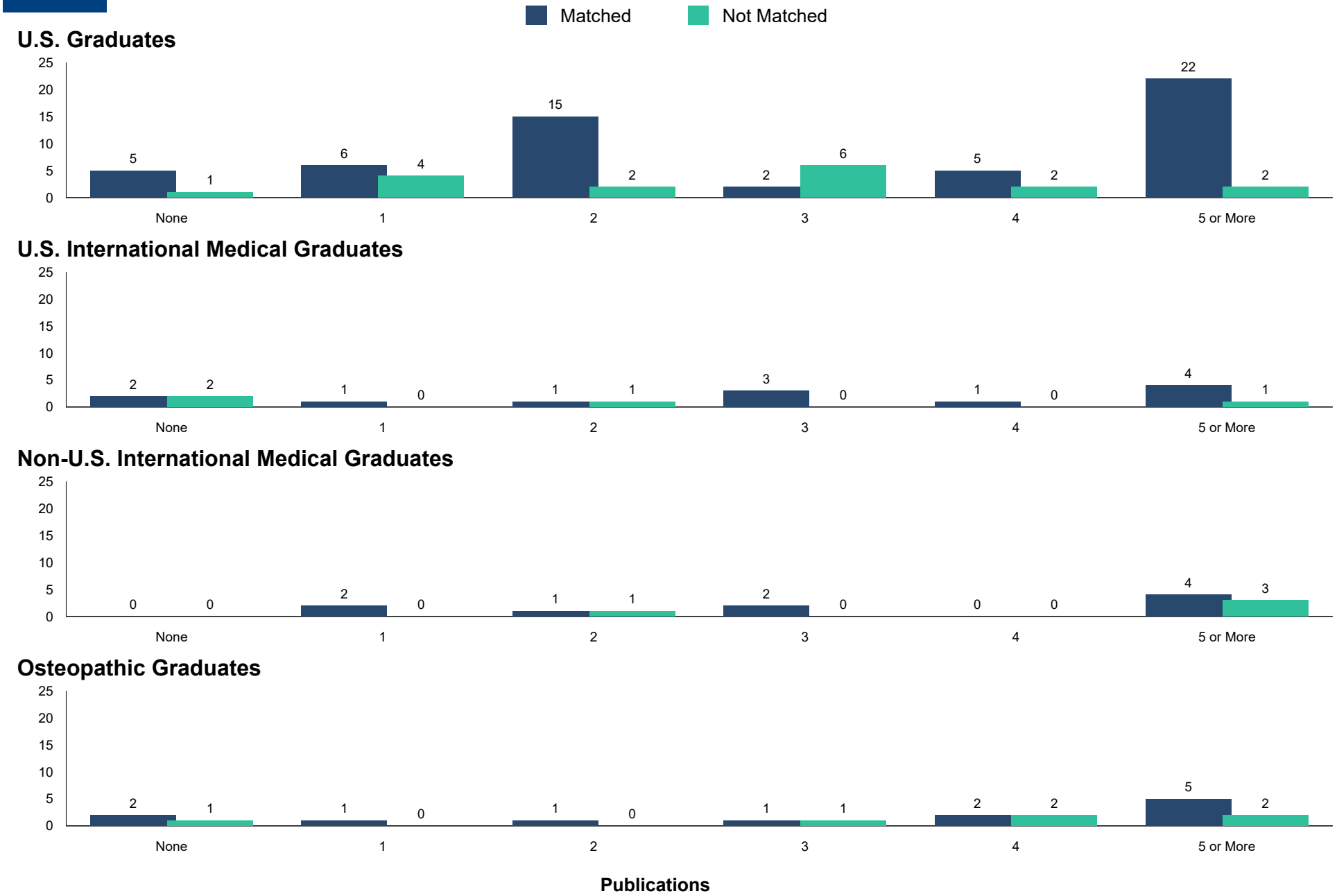

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Chart-8 Number of Work Experiences

Pediatric Emergency Medicine

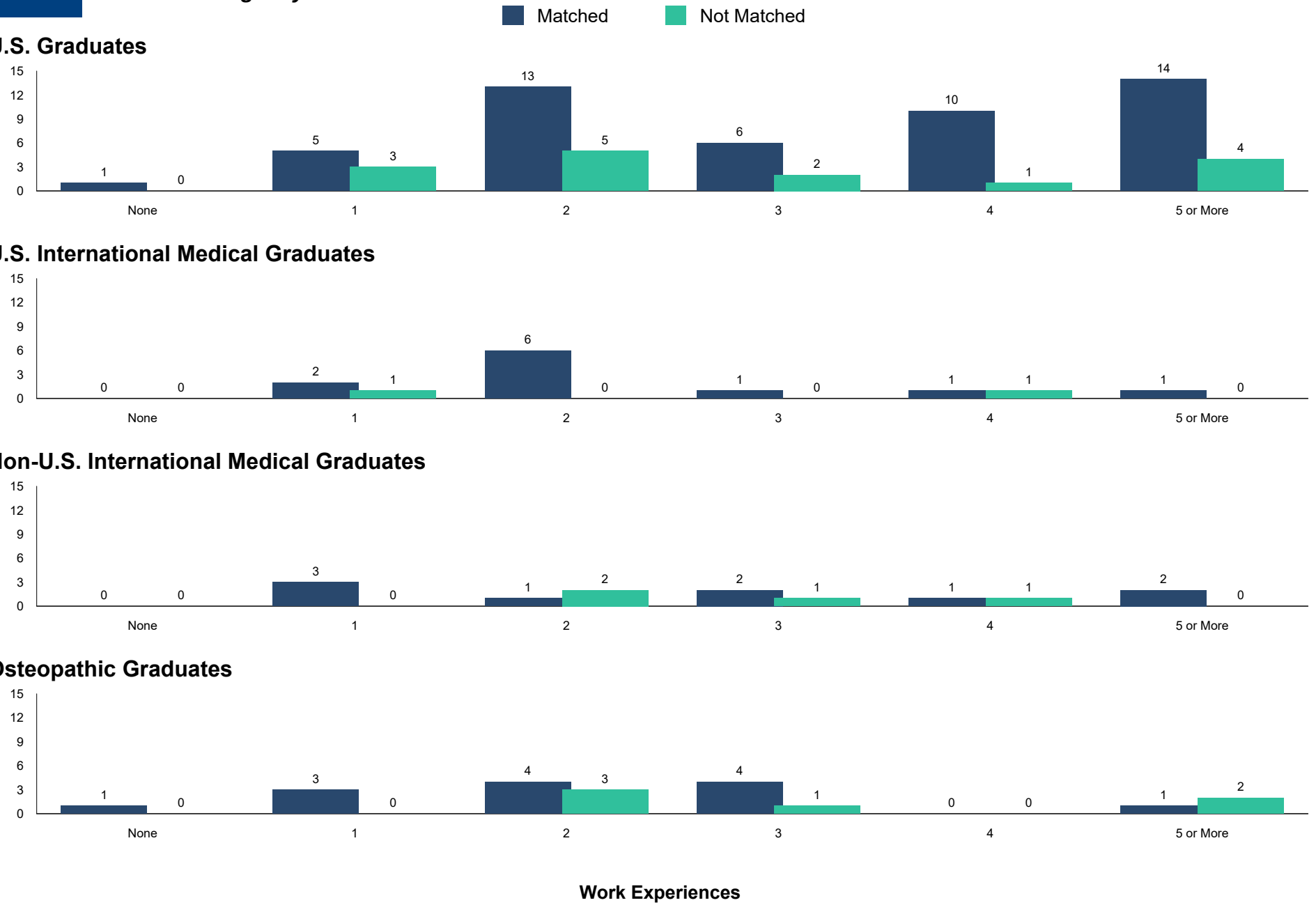

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Chart-9 Number of Volunteer Experiences

Pediatric Emergency Medicine

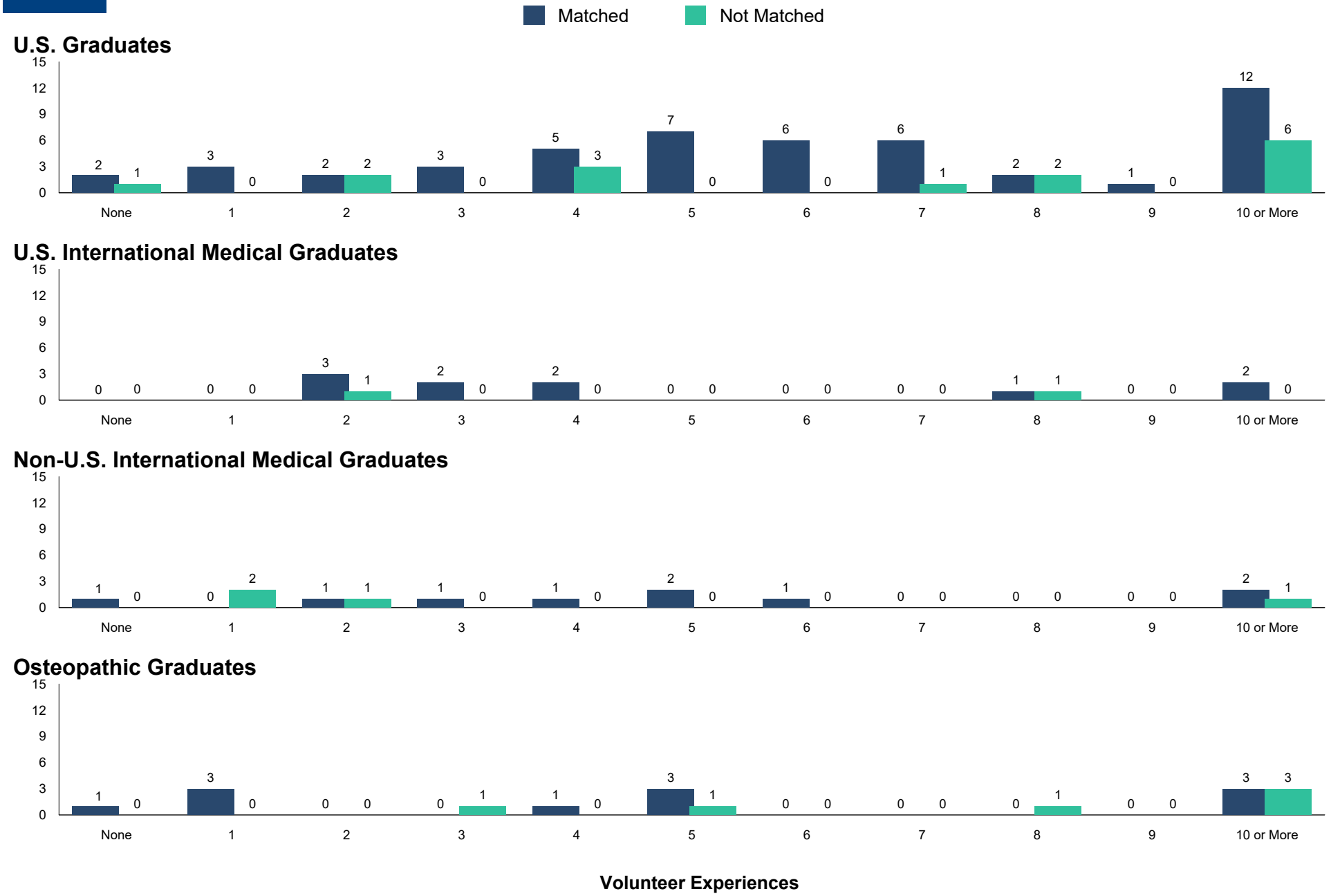

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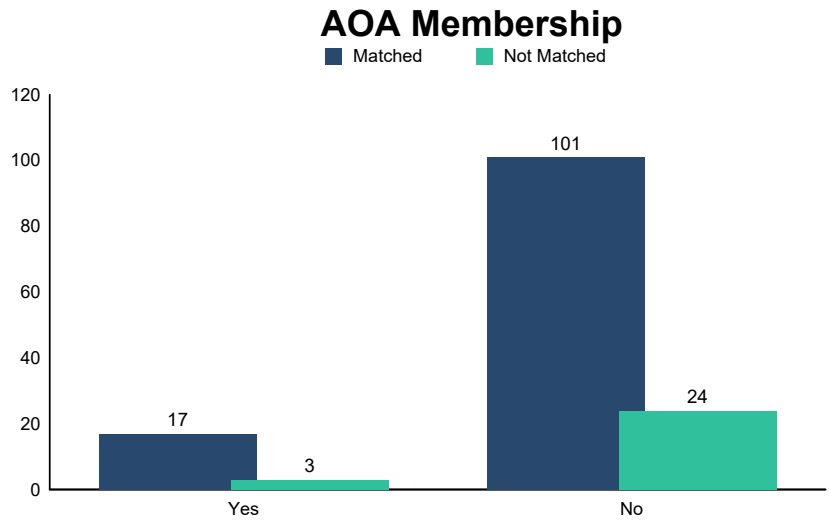
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Pediatric Emergency Medicine



Source: NRMP Data Warehouse

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Pulmonary Disease and Critical Care Medicine

Table-1 Summary Statistics

Pulmonary Disease and Critical Care Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=288)	Unmatched (n=31)	Matched (n=87)	Unmatched (n=49)	Matched (n=129)	Unmatched (n=73)	Matched (n=56)	Unmatched (n=39)
1.	Mean number of contiguous ranks	7.8	4.5	6.4	2.8	7.5	2.8	6.3	2.4
2.	Mean number of distinct specialties ranked	1.0	1.2	1.1	1.2	1.2	1.4	1.1	1.1
3.	Mean USMLE Step 1 score	238	221	231	224	240	232	n/a	n/a
4.	Mean USMLE Step 2 score	251	235	236	227	243	237	n/a	n/a
5.	Mean USMLE Step 3 score	239	225	221	216	225	219	n/a	n/a
6.	Mean number of research experiences	3.9	4.1	3.6	2.3	3.8	2.7	3.7	2.7
7.	Mean number of abstracts, presentations, and publications	6.7	4.6	6.6	8.8	10.6	8.7	6.0	3.6
8.	Mean number of work experiences	3.4	2.9	3.4	2.6	3.6	3.9	3.8	3.1
9.	Mean number of volunteer experiences	4.9	4.1	4.1	3.5	3.5	2.4	5.1	4.2
10.	Percentage who are AOA members	20.5	6.5	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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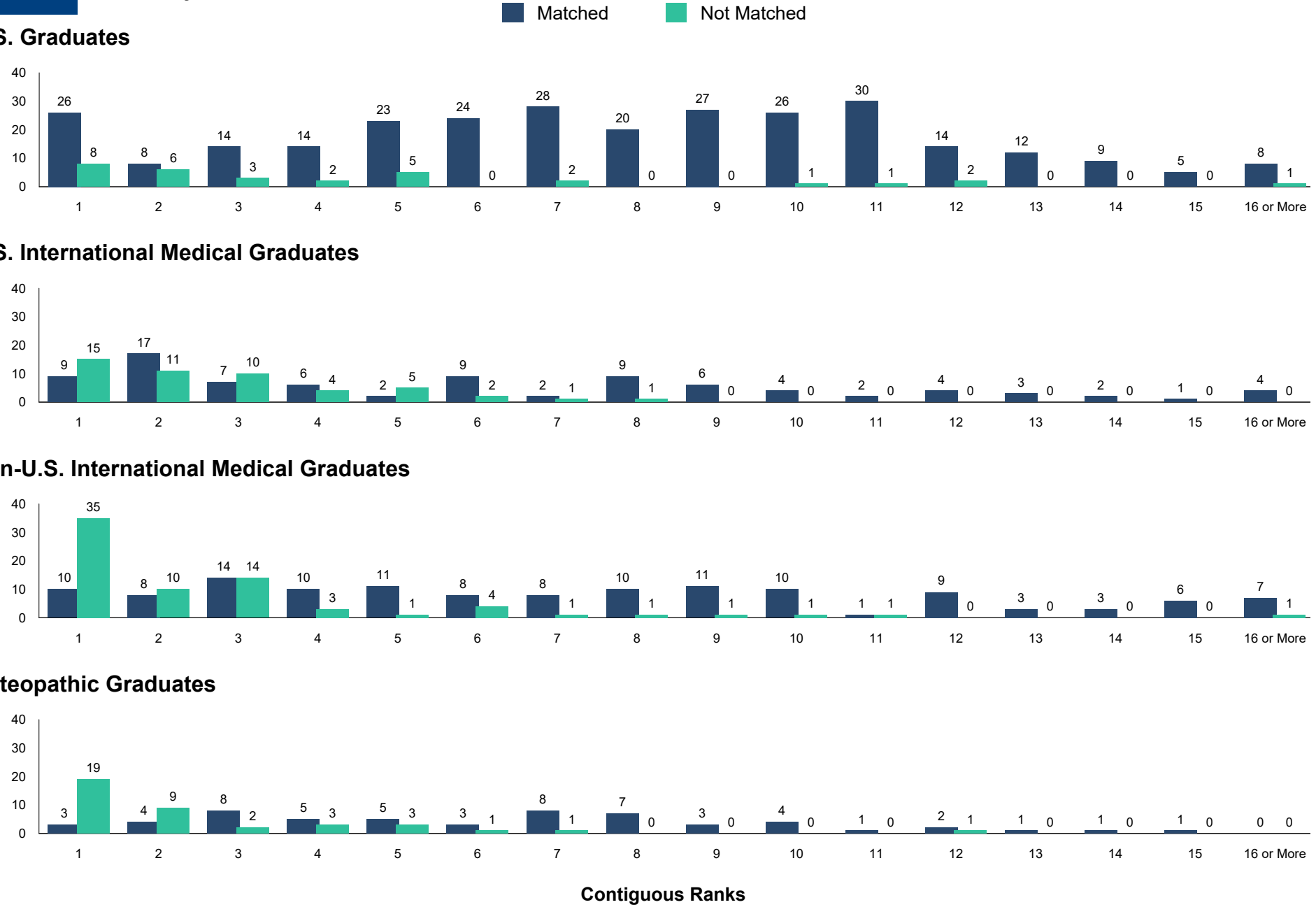
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Pulmonary Disease and Critical Care Medicine



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Pulmonary Disease and Critical Care Medicine

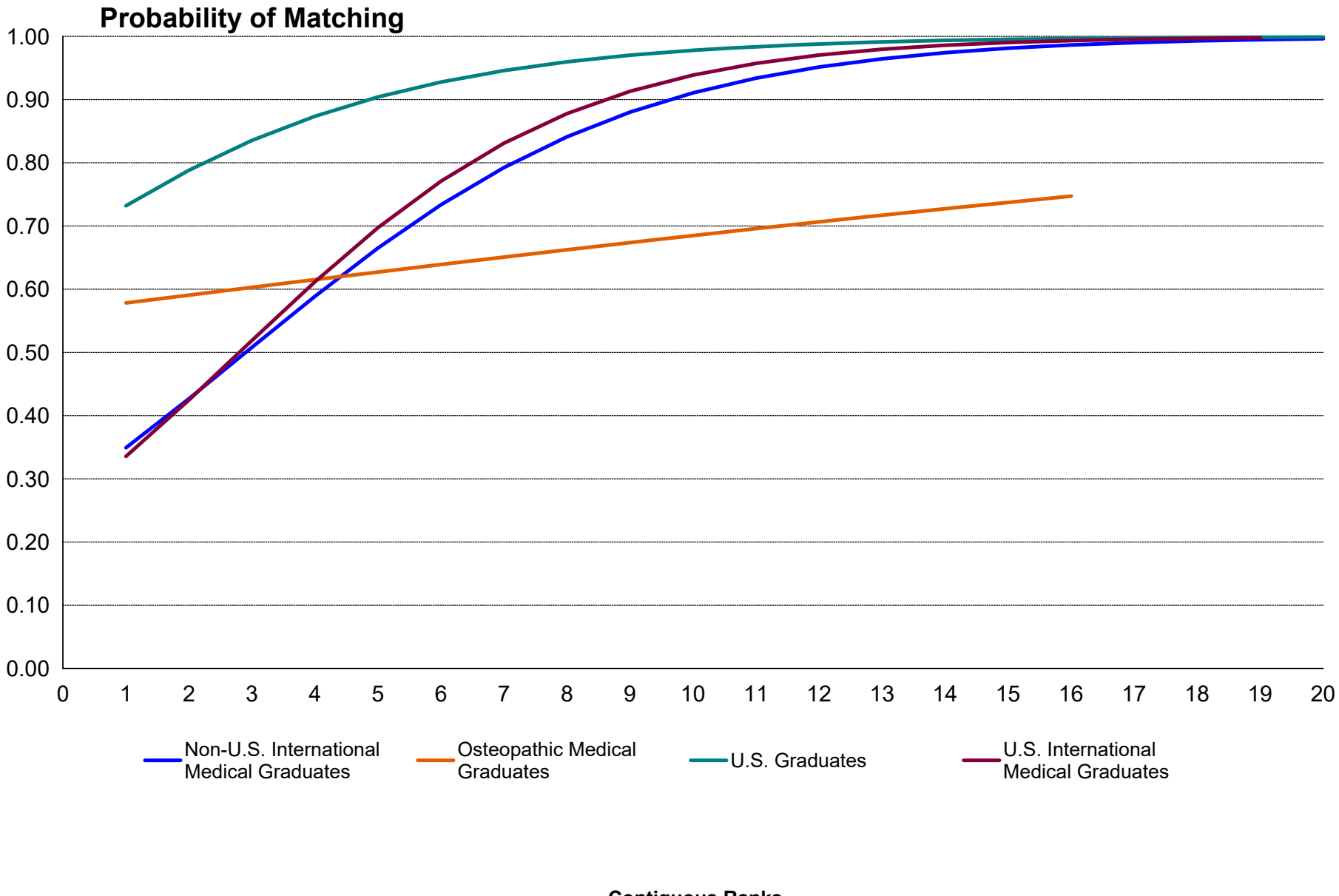

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Chart-2 Number of Distinct Specialties Ranked

Pulmonary Disease and Critical Care Medicine

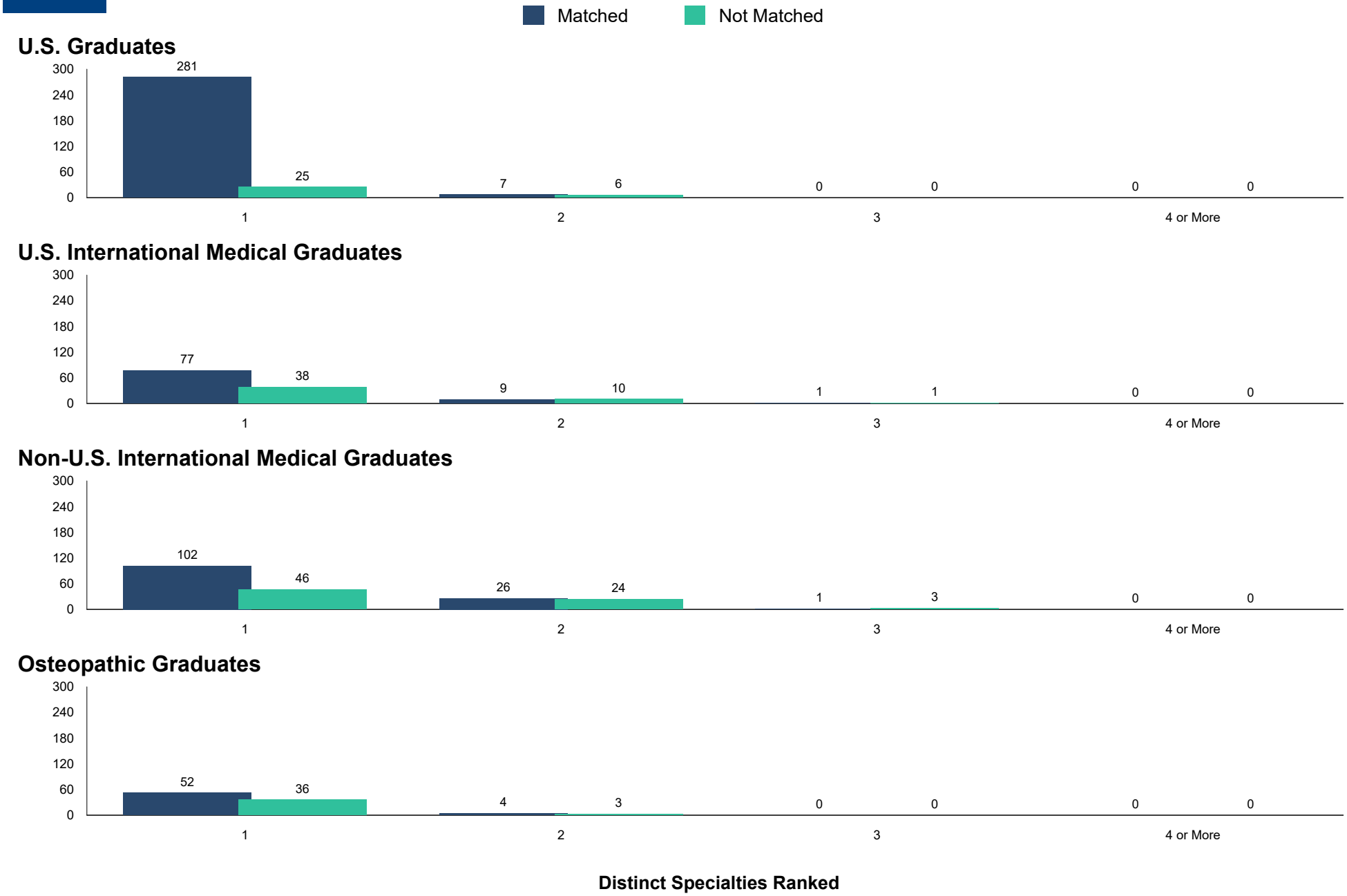

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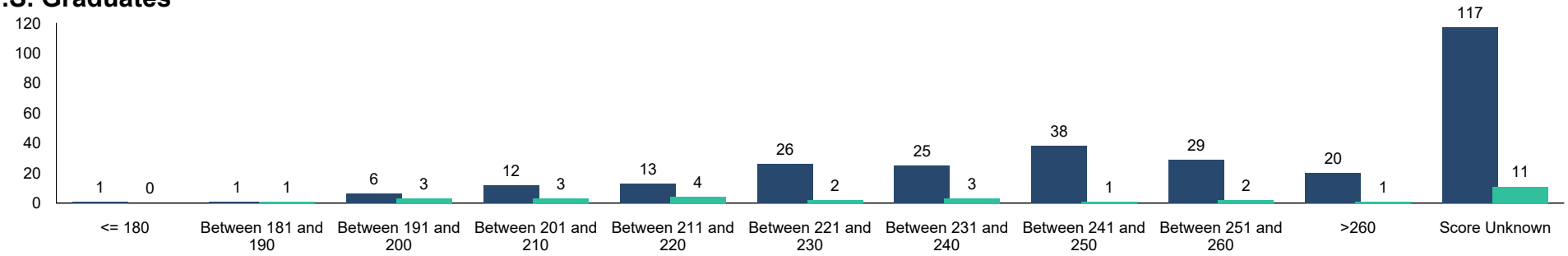
Chart-3 USMLE Step 1 Scores

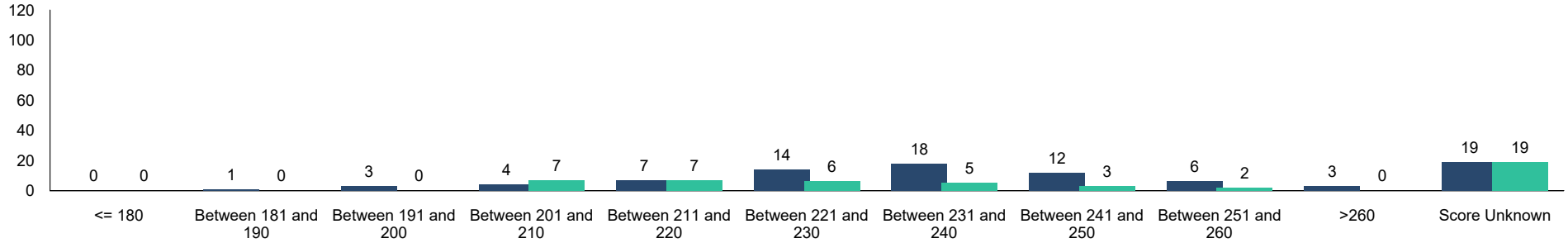
Pulmonary Disease and Critical Care Medicine

Matched Not Matched

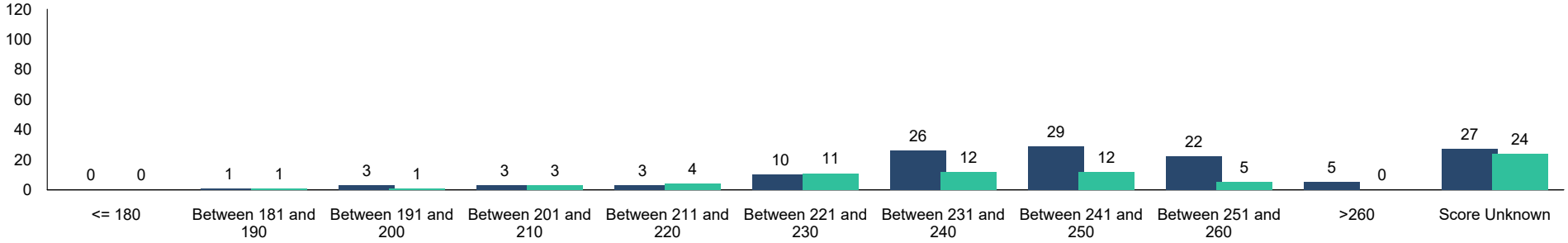
U.S. Graduates



U.S. International Medical Graduates



Non-U.S. International Medical Graduates



Step 1 Scores

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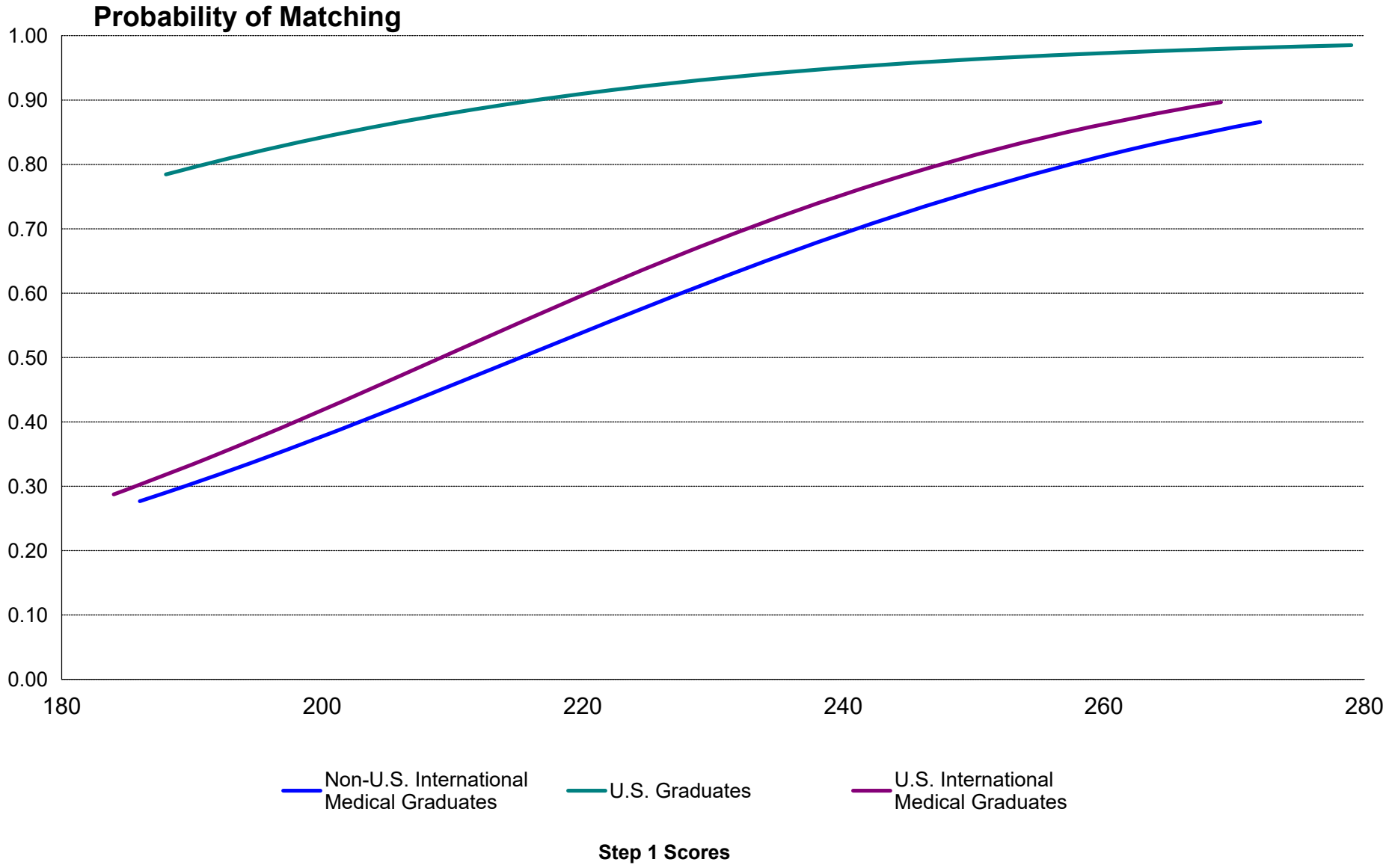
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Pulmonary Disease and Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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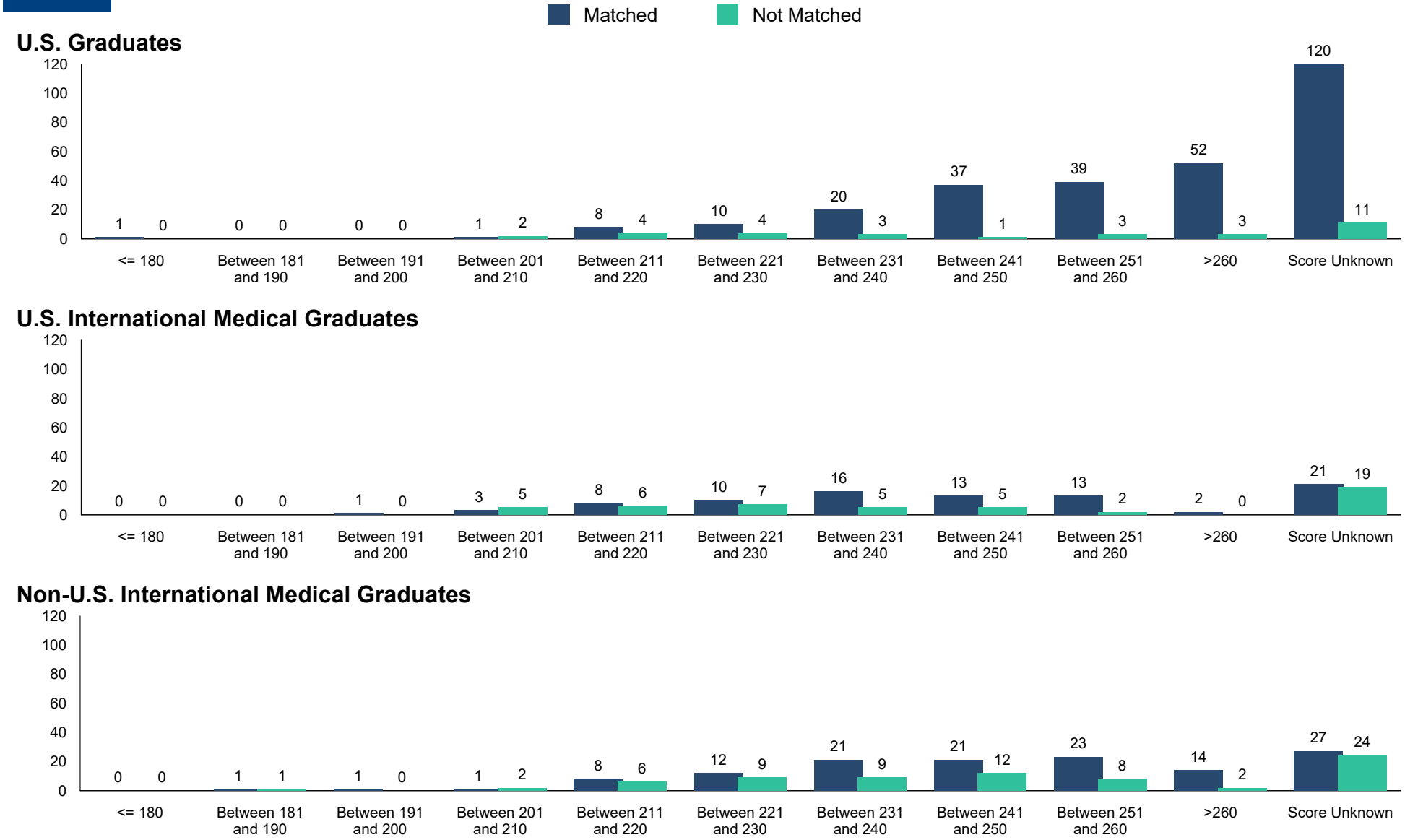
Chart-4 USMLE Step 2 Scores

Pulmonary Disease and Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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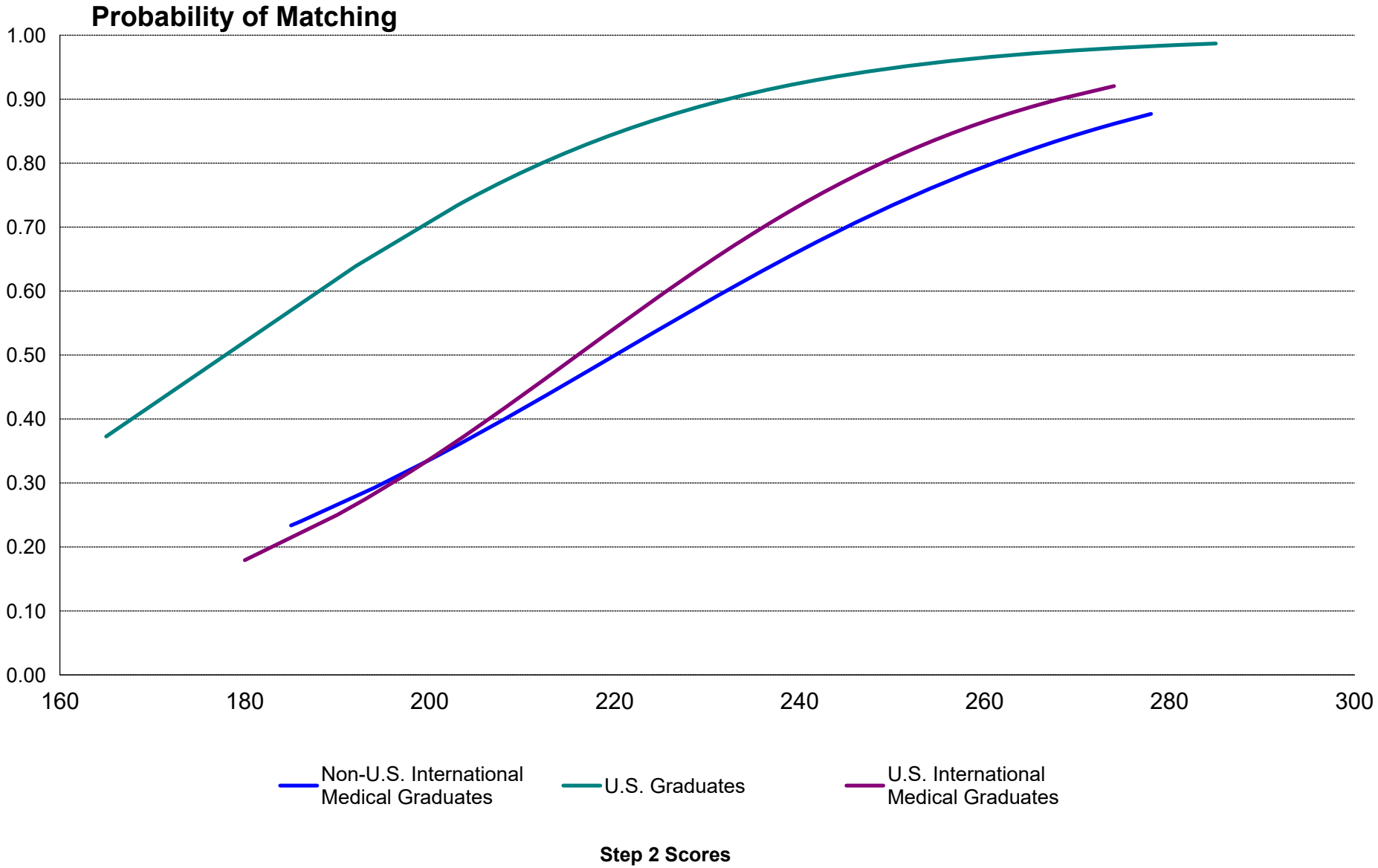
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Pulmonary Disease and Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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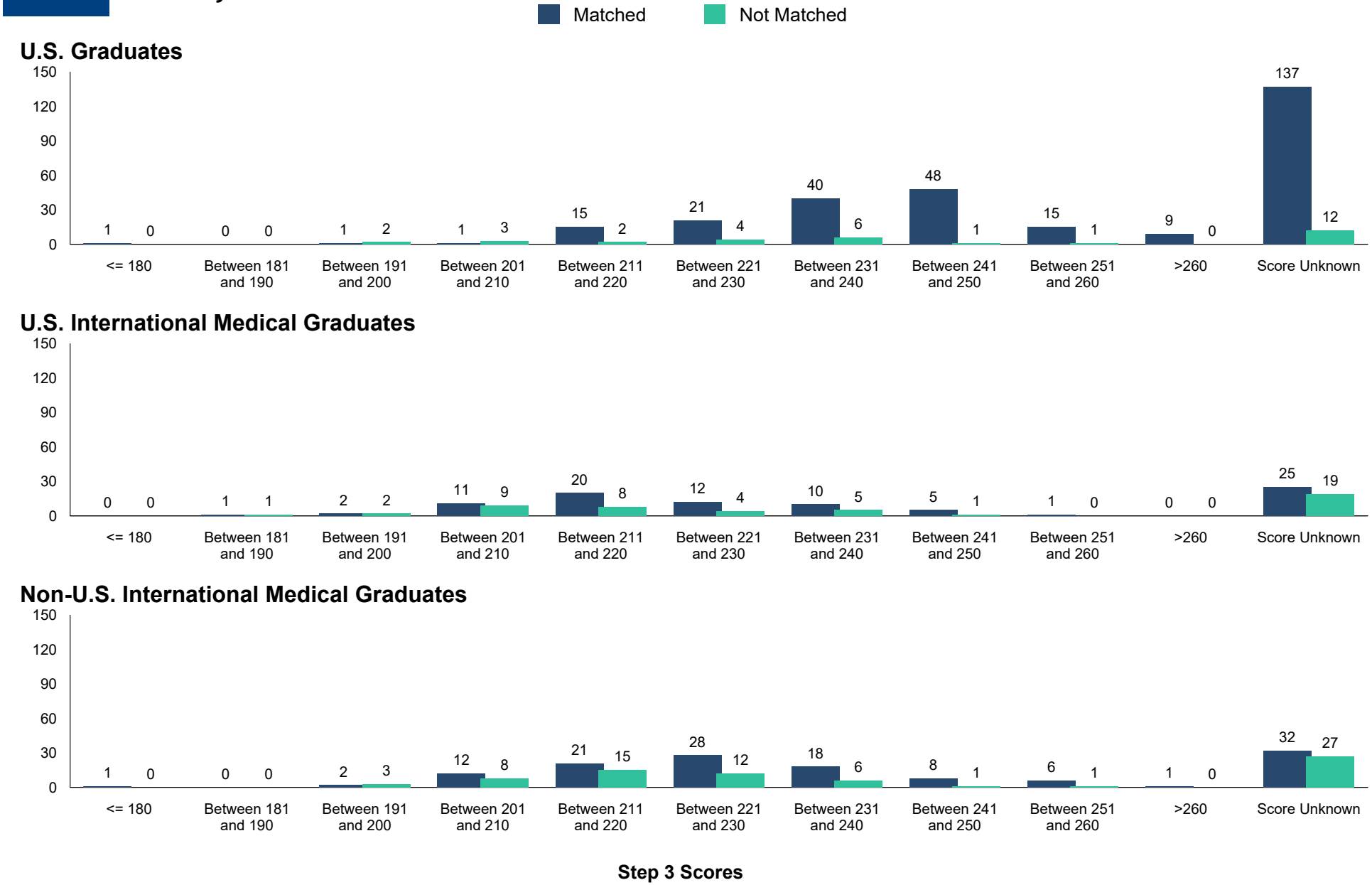
Chart-5 USMLE Step 3 Scores

Pulmonary Disease and Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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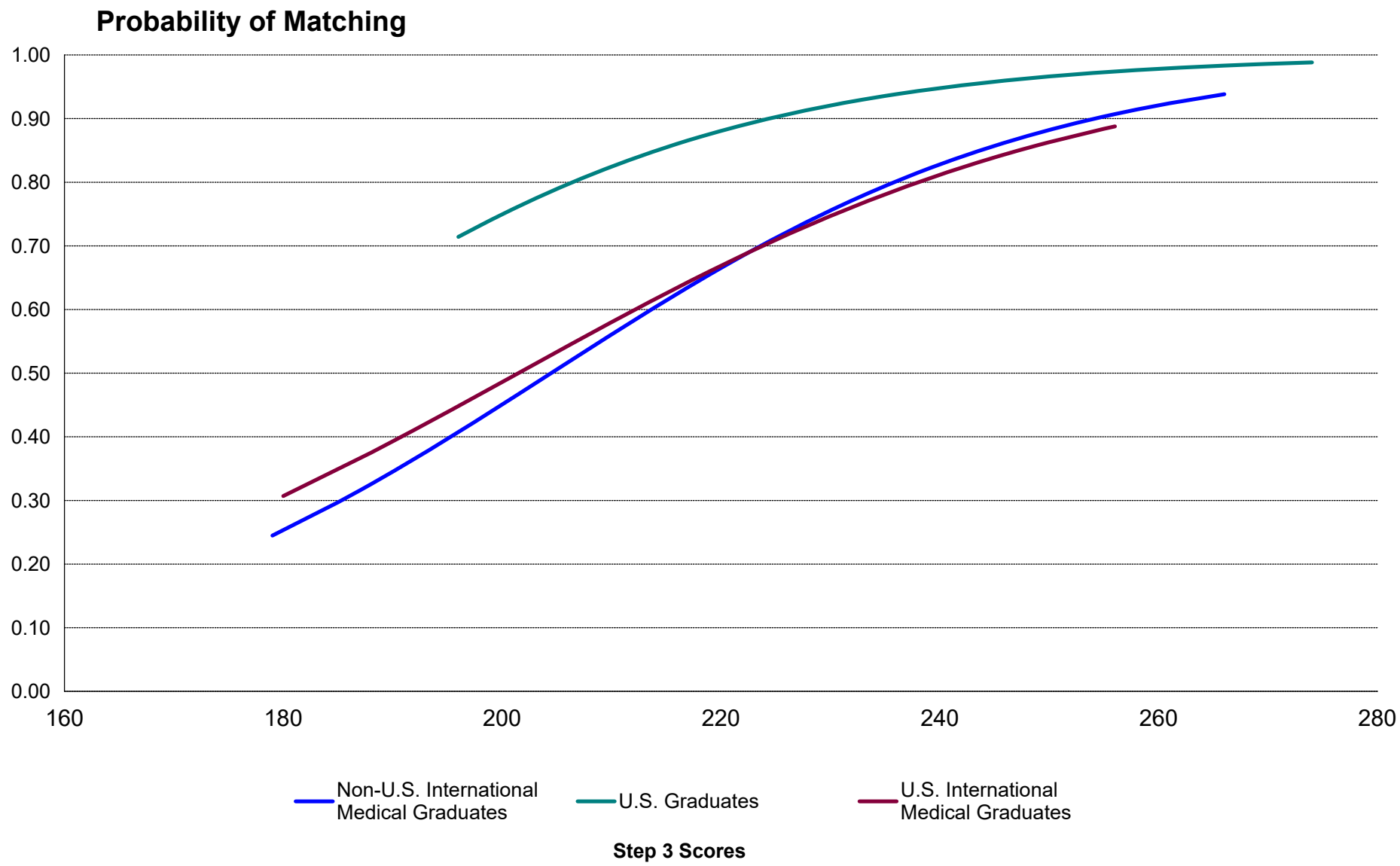
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Pulmonary Disease and Critical Care Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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Chart-6 Number of Research Projects

Pulmonary Disease and Critical Care Medicine

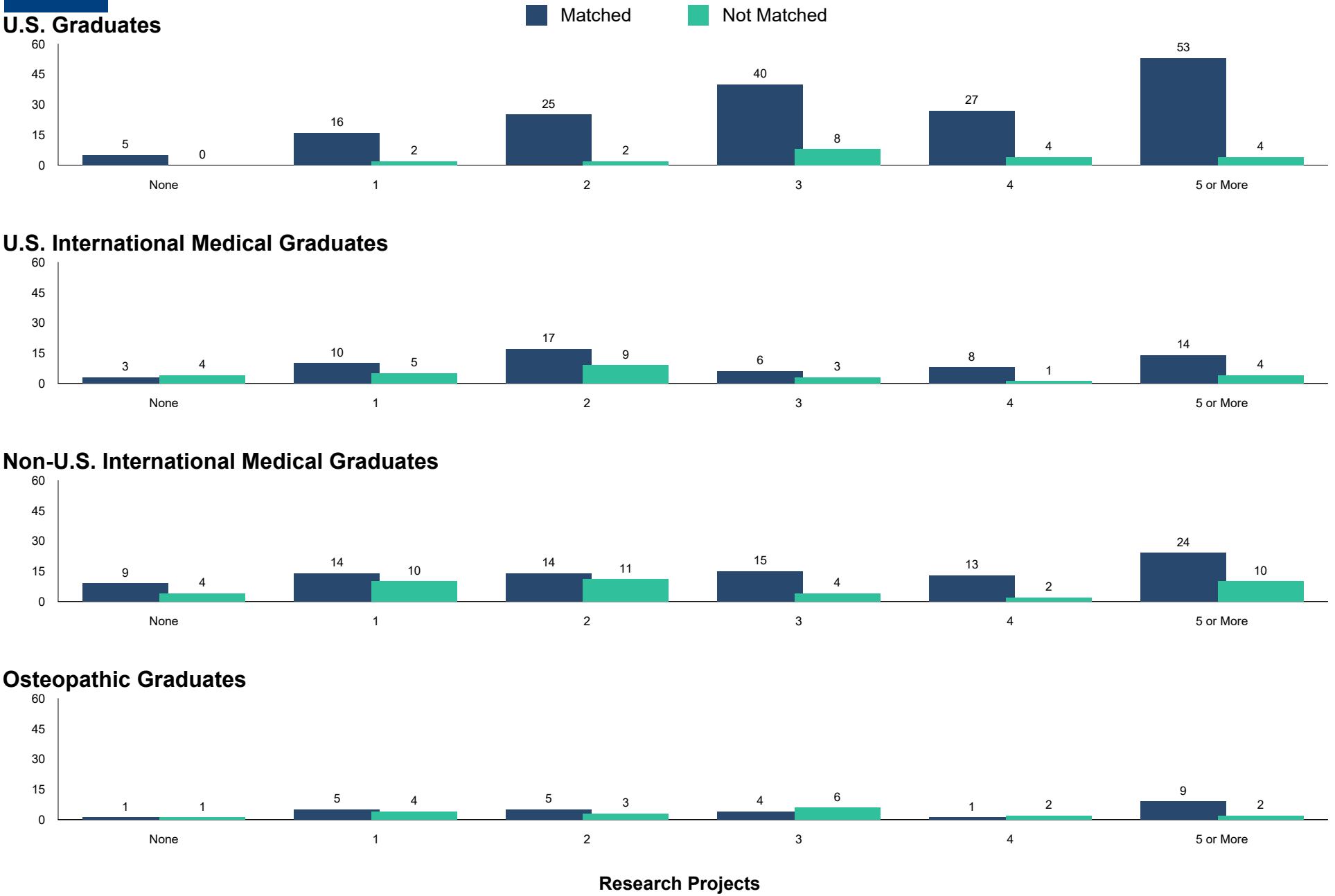

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Chart-7 Number of Abstracts, Presentations, and Publications

Pulmonary Disease and Critical Care Medicine

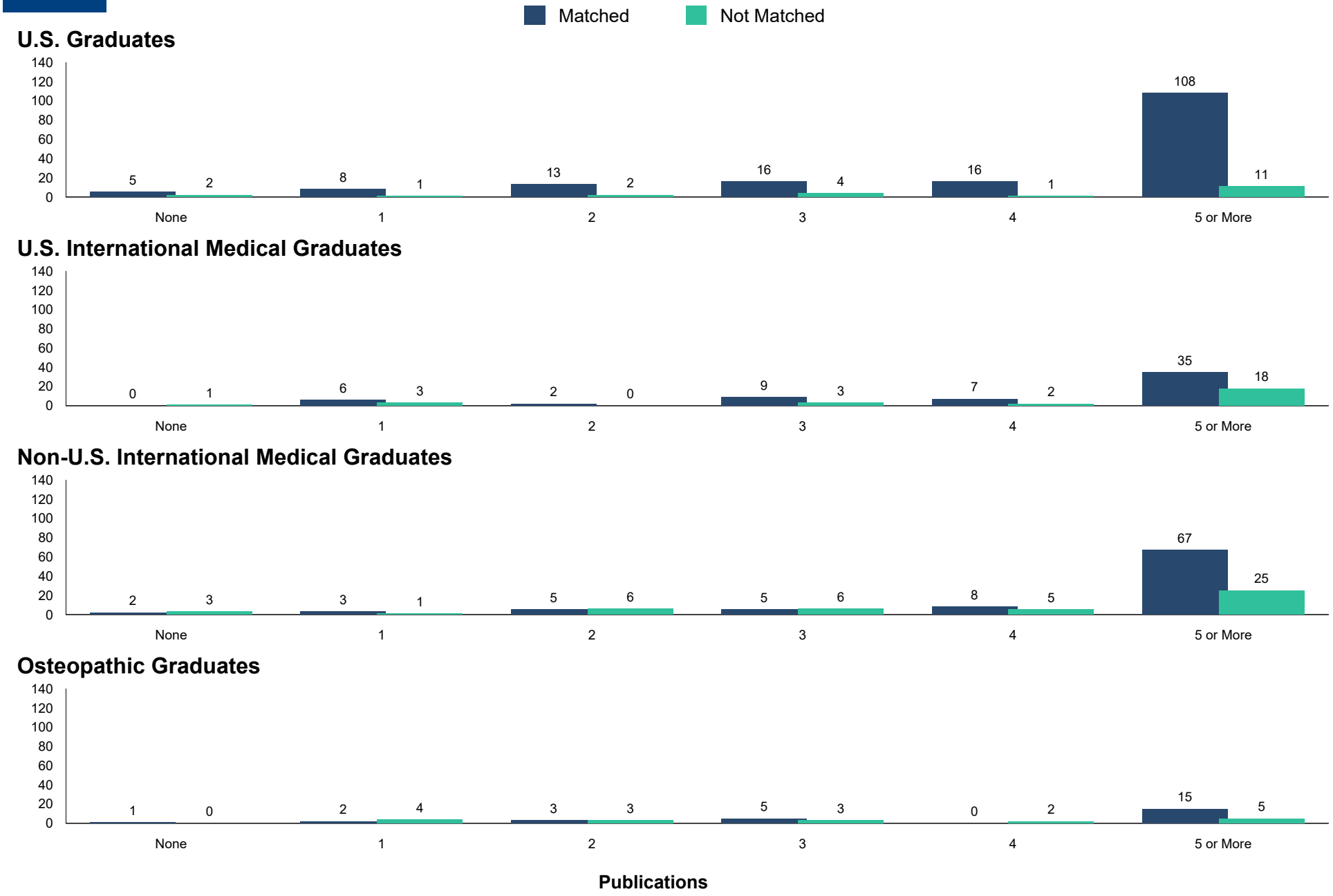

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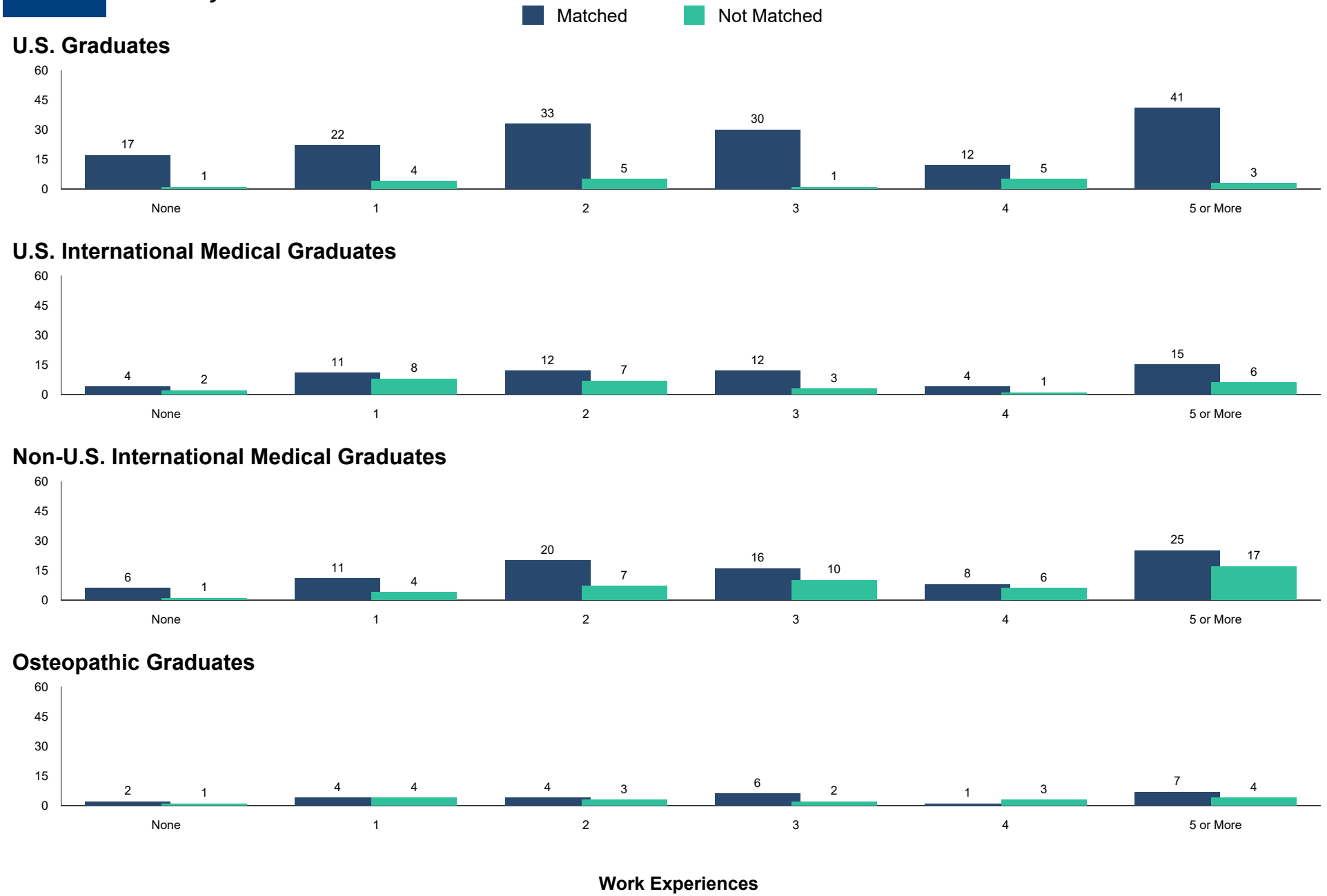
Chart-8 Number of Work Experiences

Pulmonary Disease and Critical Care Medicine



Source: NRMP Data Warehouse

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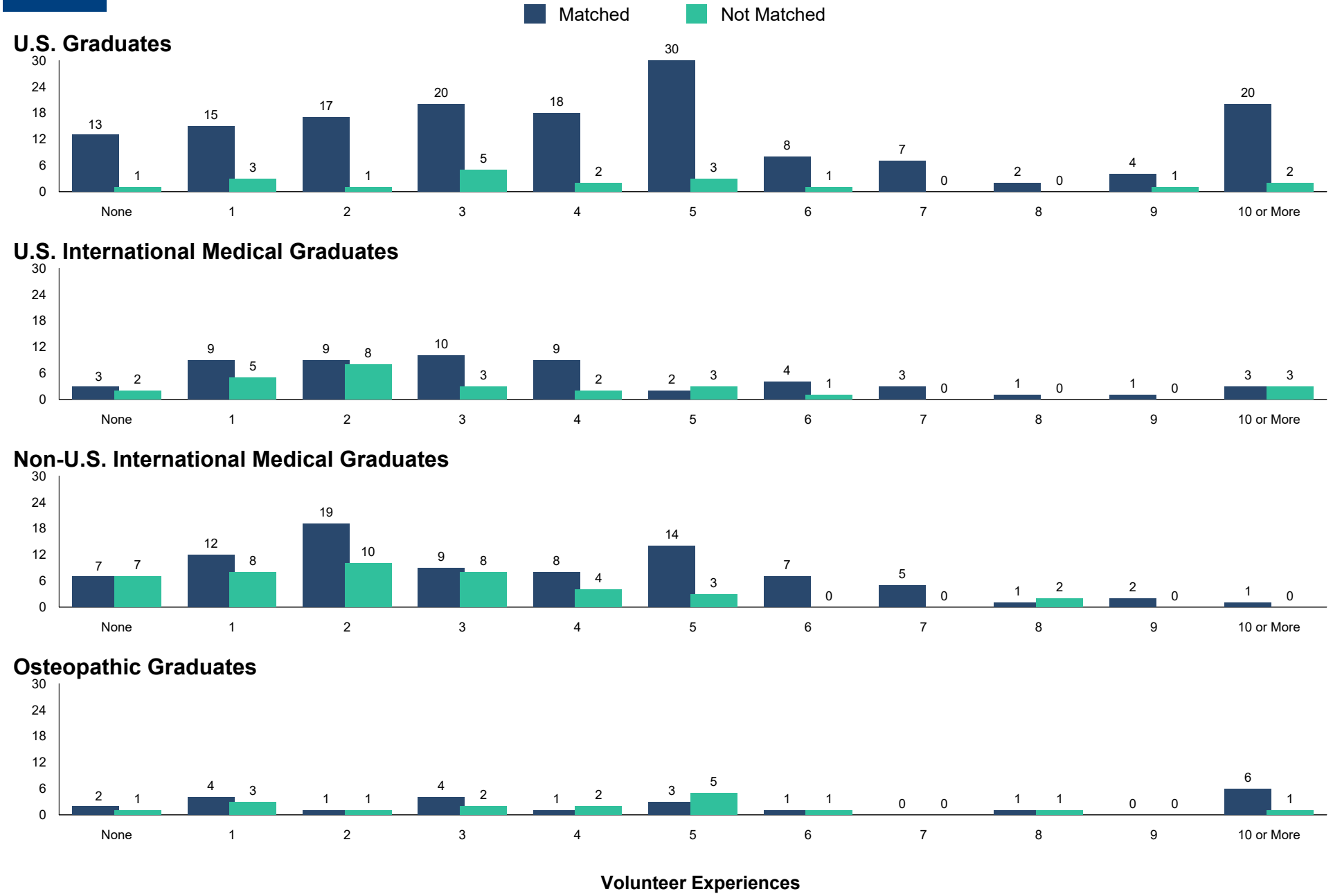
Chart-9 Number of Volunteer Experiences

Pulmonary Disease and Critical Care Medicine



Source: NRMP Data Warehouse

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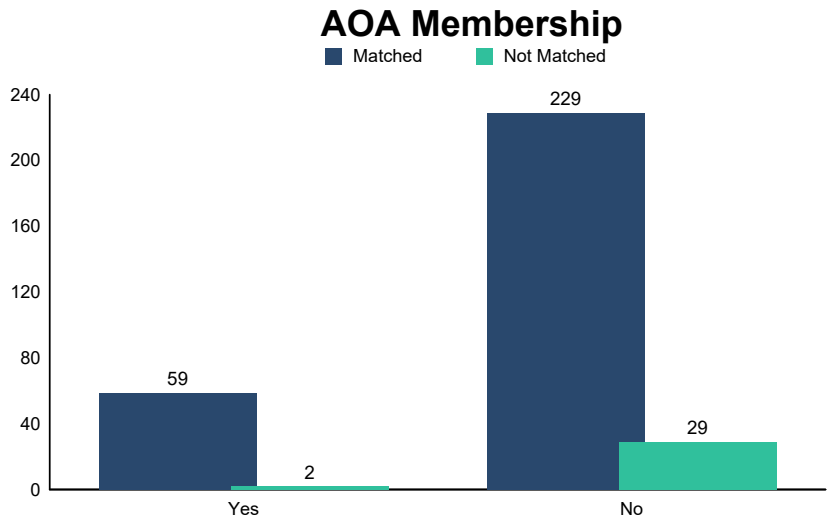
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Pulmonary Disease and Critical Care Medicine



Source: NRMP Data Warehouse

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Rheumatology

Table-1 Summary Statistics
Rheumatology

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=118)	Unmatched (n=16)	Matched (n=29)	Unmatched (n=29)	Matched (n=40)	Unmatched (n=39)	Matched (n=29)	Unmatched (n=12)
1.	Mean number of contiguous ranks	7.5	3.8	8.1	4.3	8.3	3.6	7.2	3.2
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.1
3.	Mean USMLE Step 1 score	233	217	231	220	240	233	n/a	n/a
4.	Mean USMLE Step 2 score	243	234	236	229	246	239	n/a	n/a
5.	Mean USMLE Step 3 score	233	225	223	214	224	218	n/a	n/a
6.	Mean number of research experiences	3.4	3.5	3.8	2.2	4.7	2.6	3.1	1.6
7.	Mean number of abstracts, presentations, and publications	5.7	5.2	11.2	4.2	13.8	5.1	5.1	3.4
8.	Mean number of work experiences	2.9	2.1	3.9	4.3	4.4	4.7	2.9	1.8
9.	Mean number of volunteer experiences	4.4	6.1	3.9	3.6	3.0	3.7	6.3	3.8
10.	Percentage who are AOA members	11.9	0.0	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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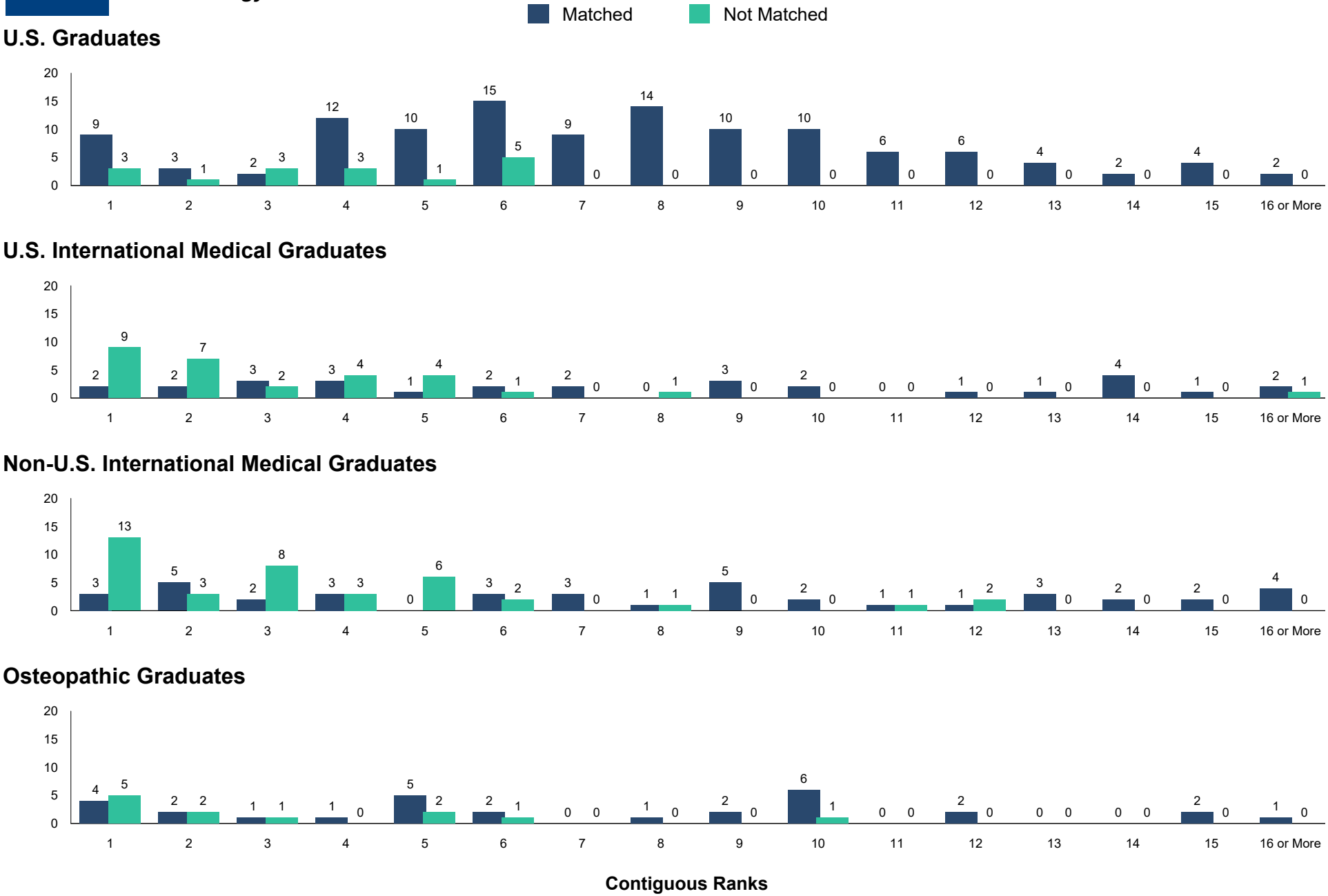
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Rheumatology



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Rheumatology

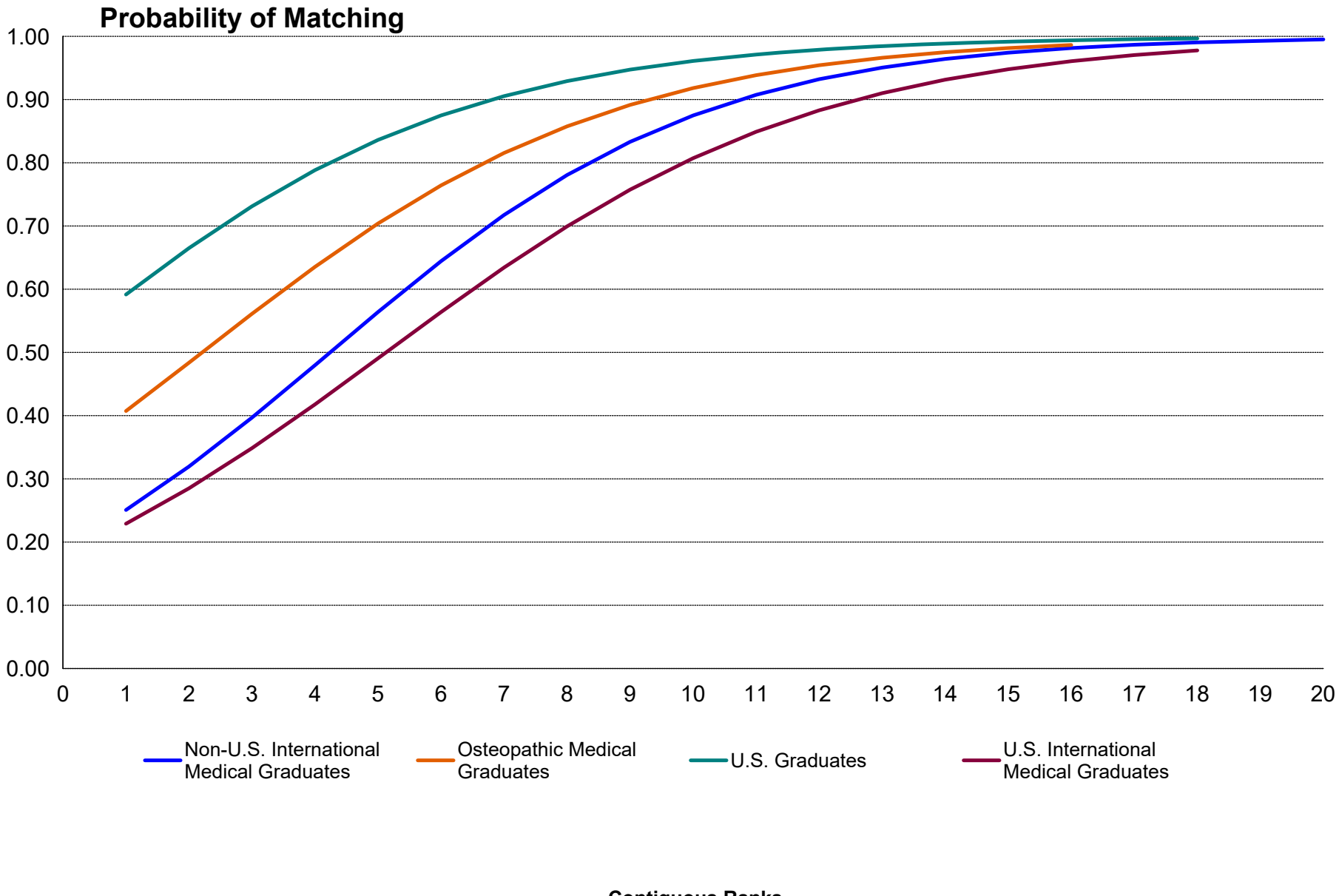

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Chart-2 Number of Distinct Specialties Ranked

Rheumatology

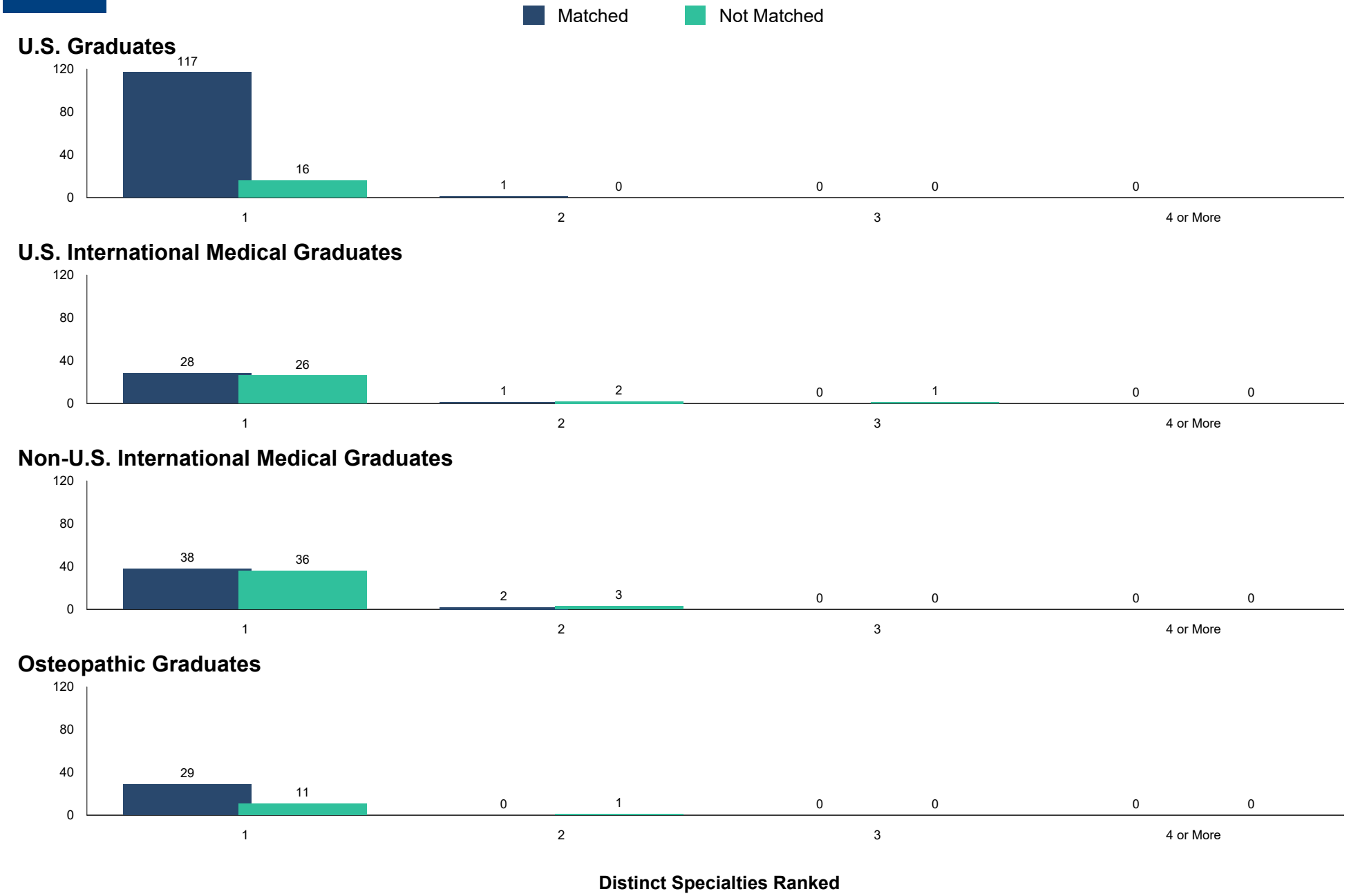

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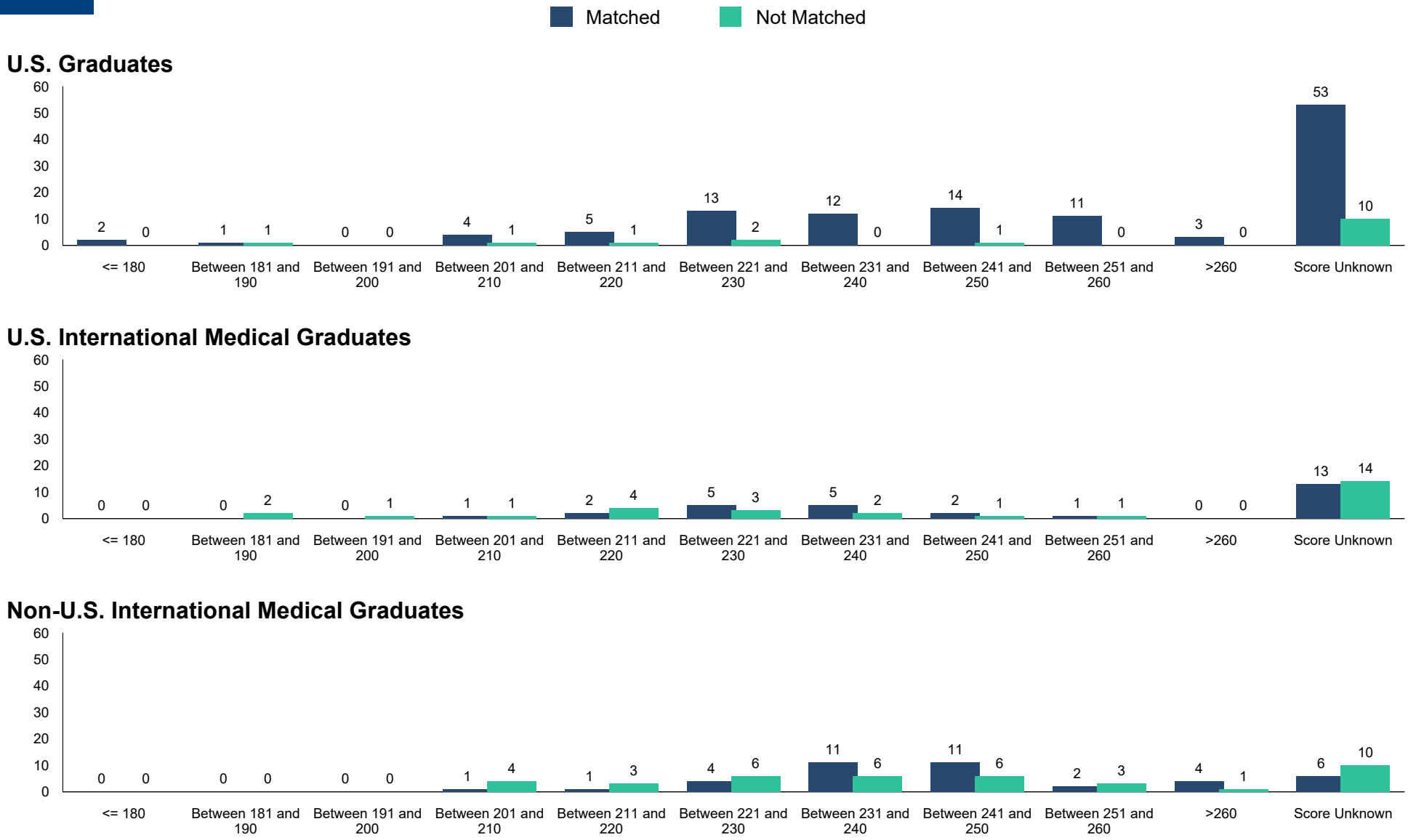
Chart-3 USMLE Step 1 Scores
Rheumatology



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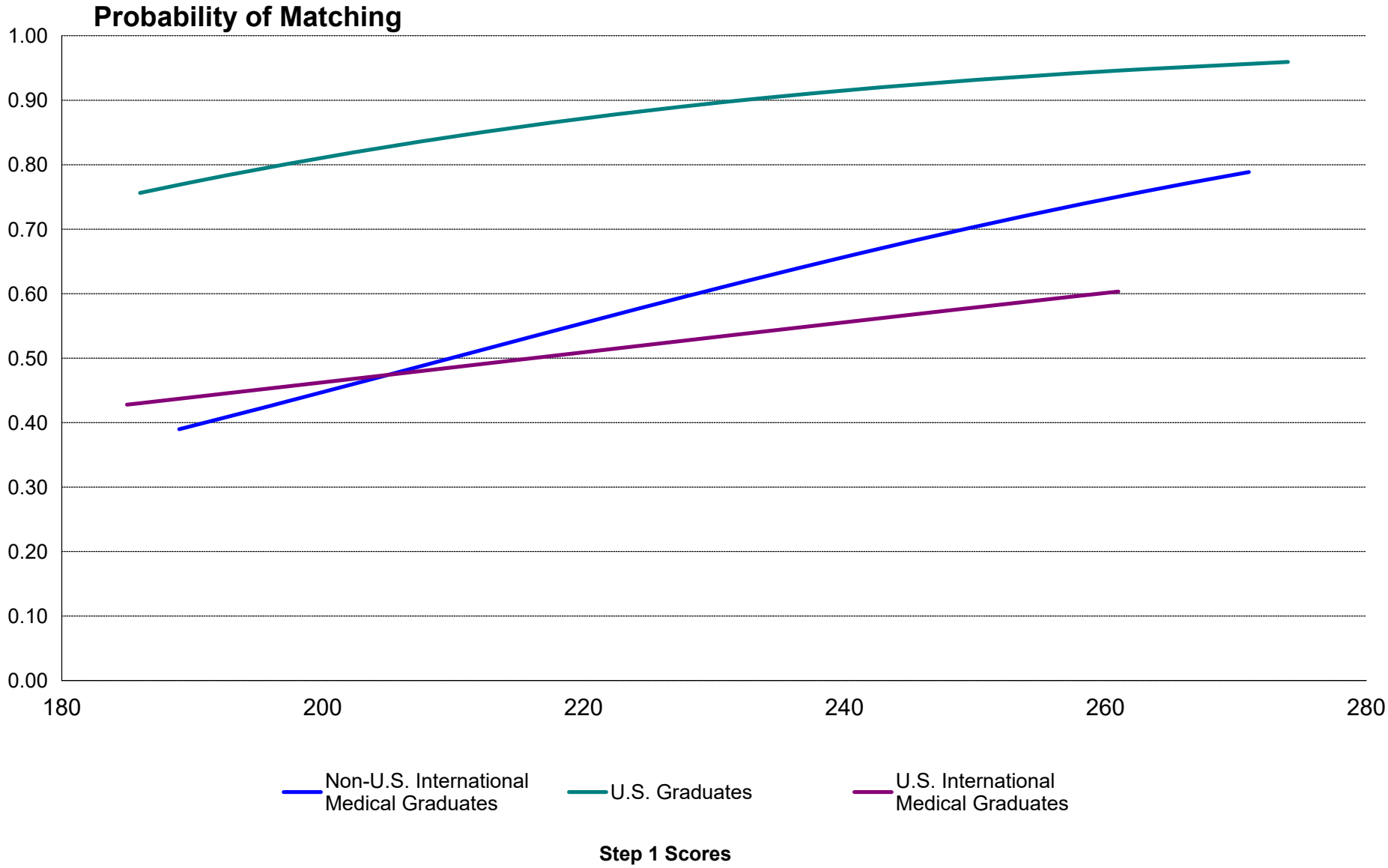
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Rheumatology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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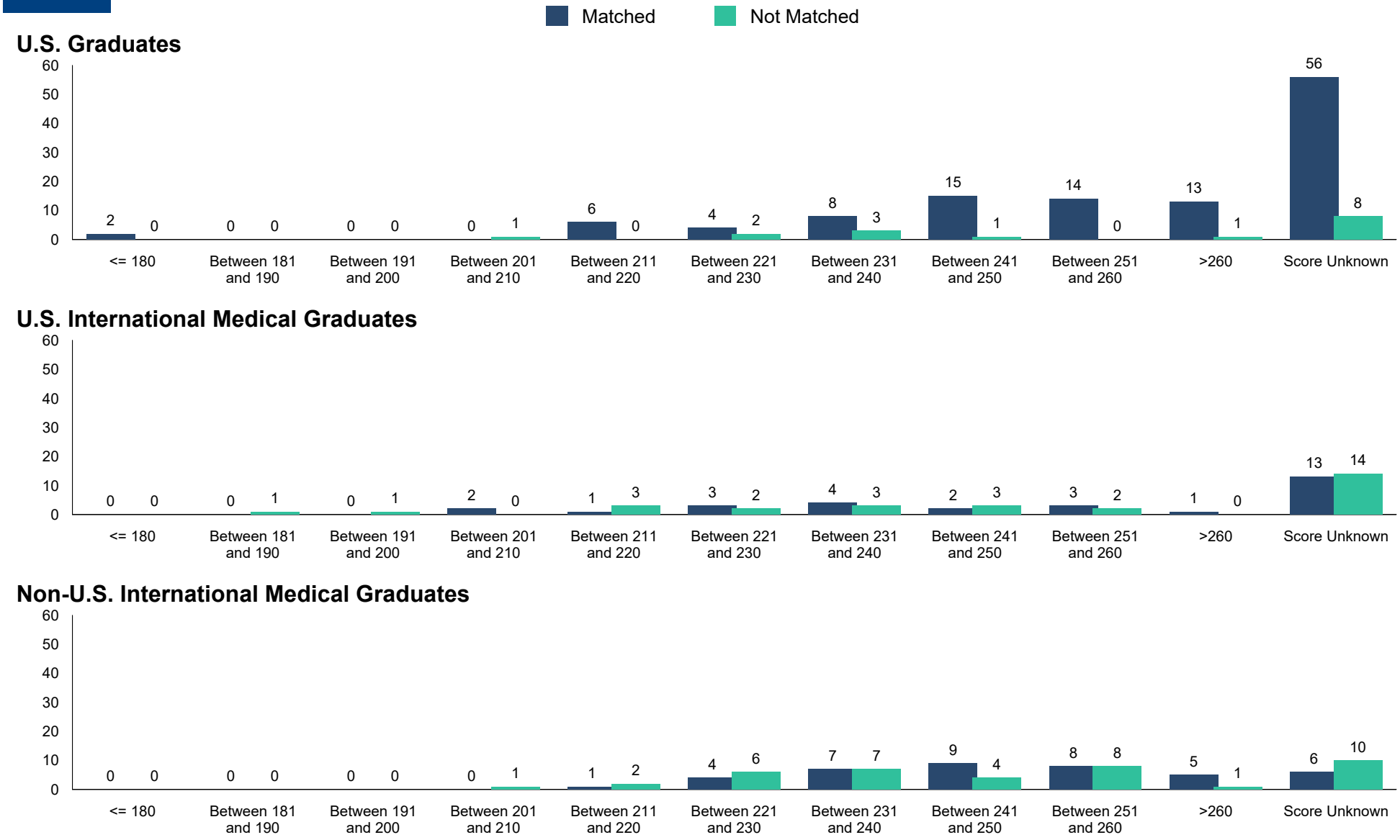
Chart-4 USMLE Step 2 Scores
Rheumatology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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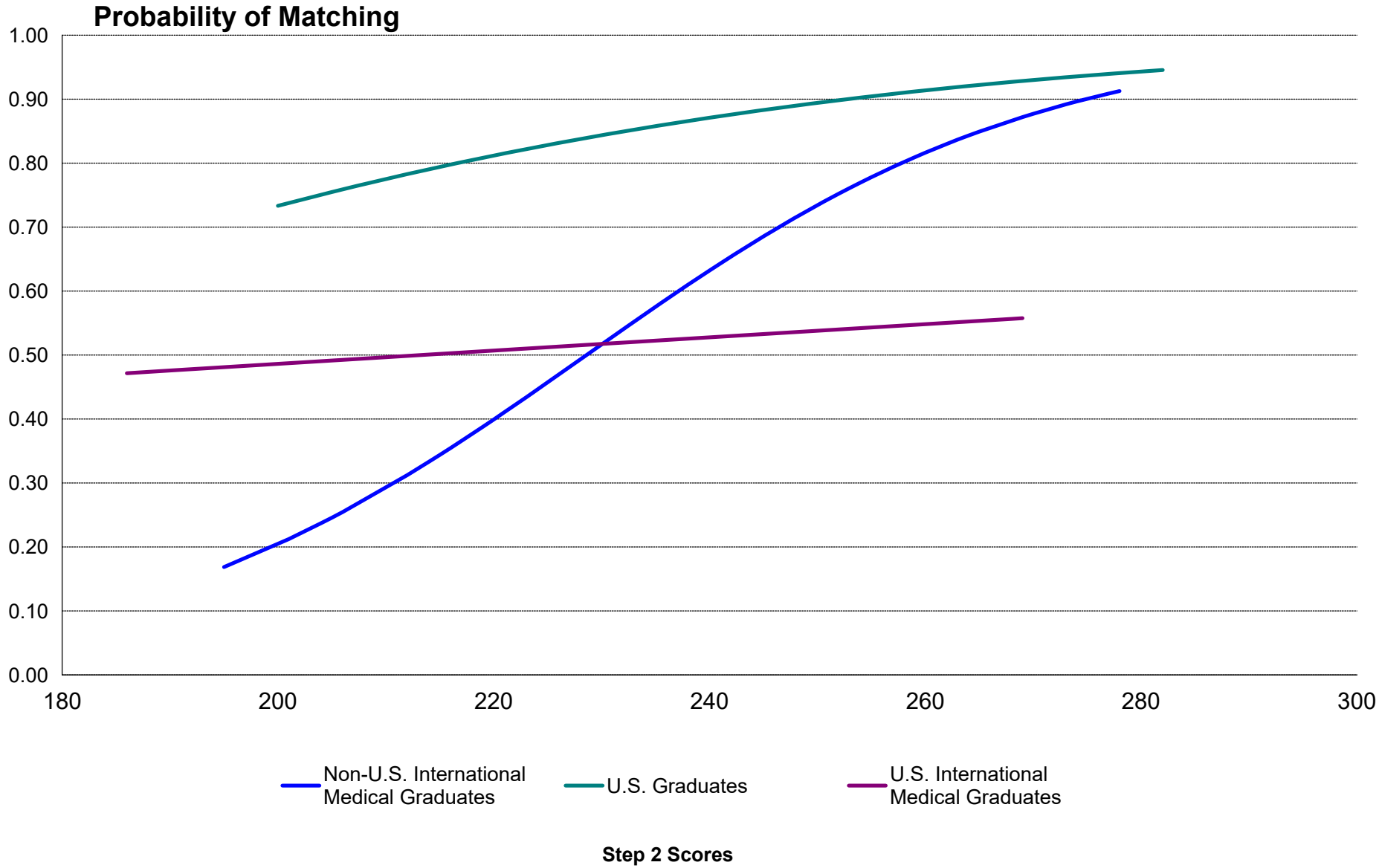
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score
Rheumatology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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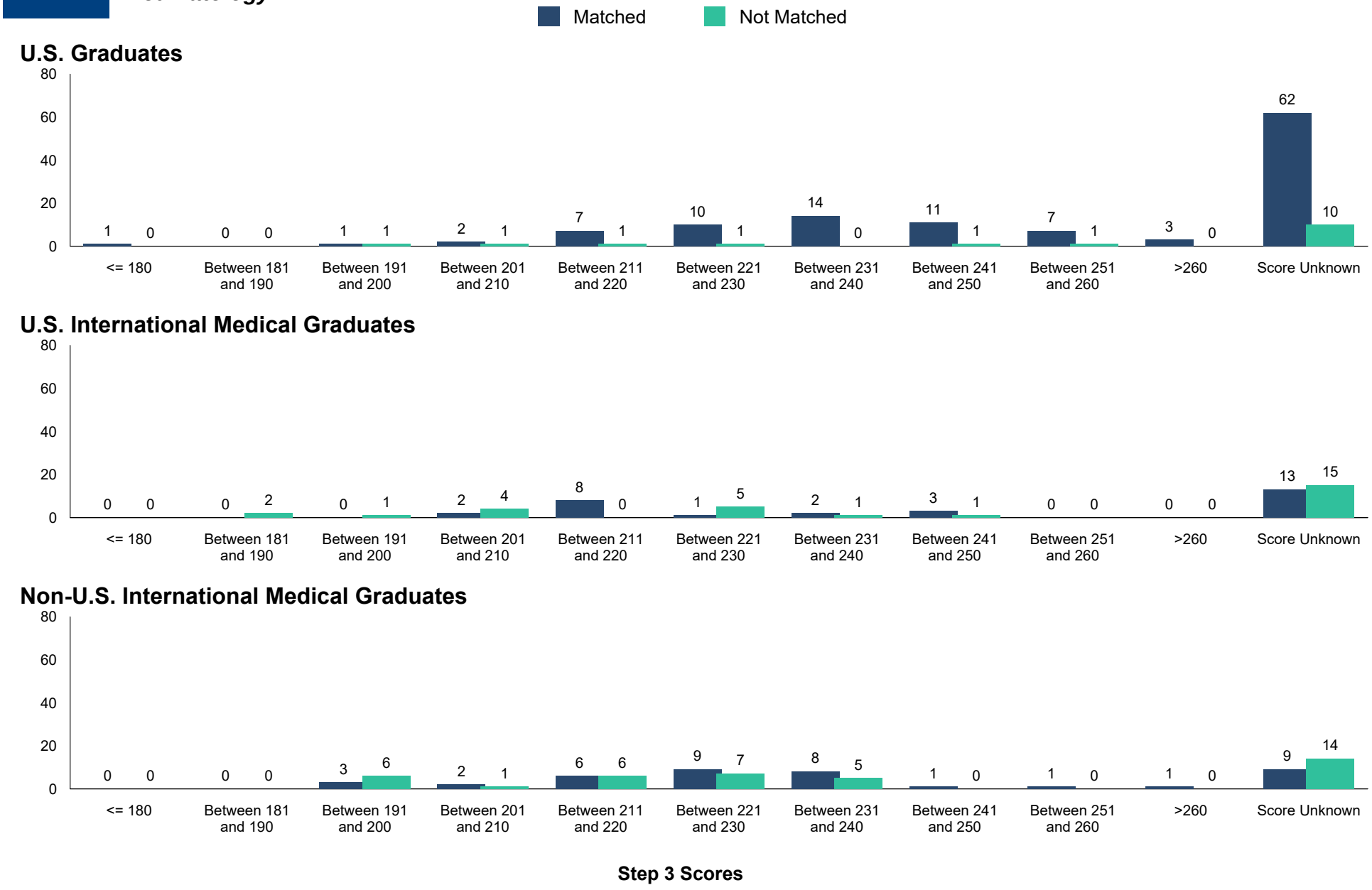
Chart-5 USMLE Step 3 Scores
Rheumatology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

Source: NRMP Data Warehouse

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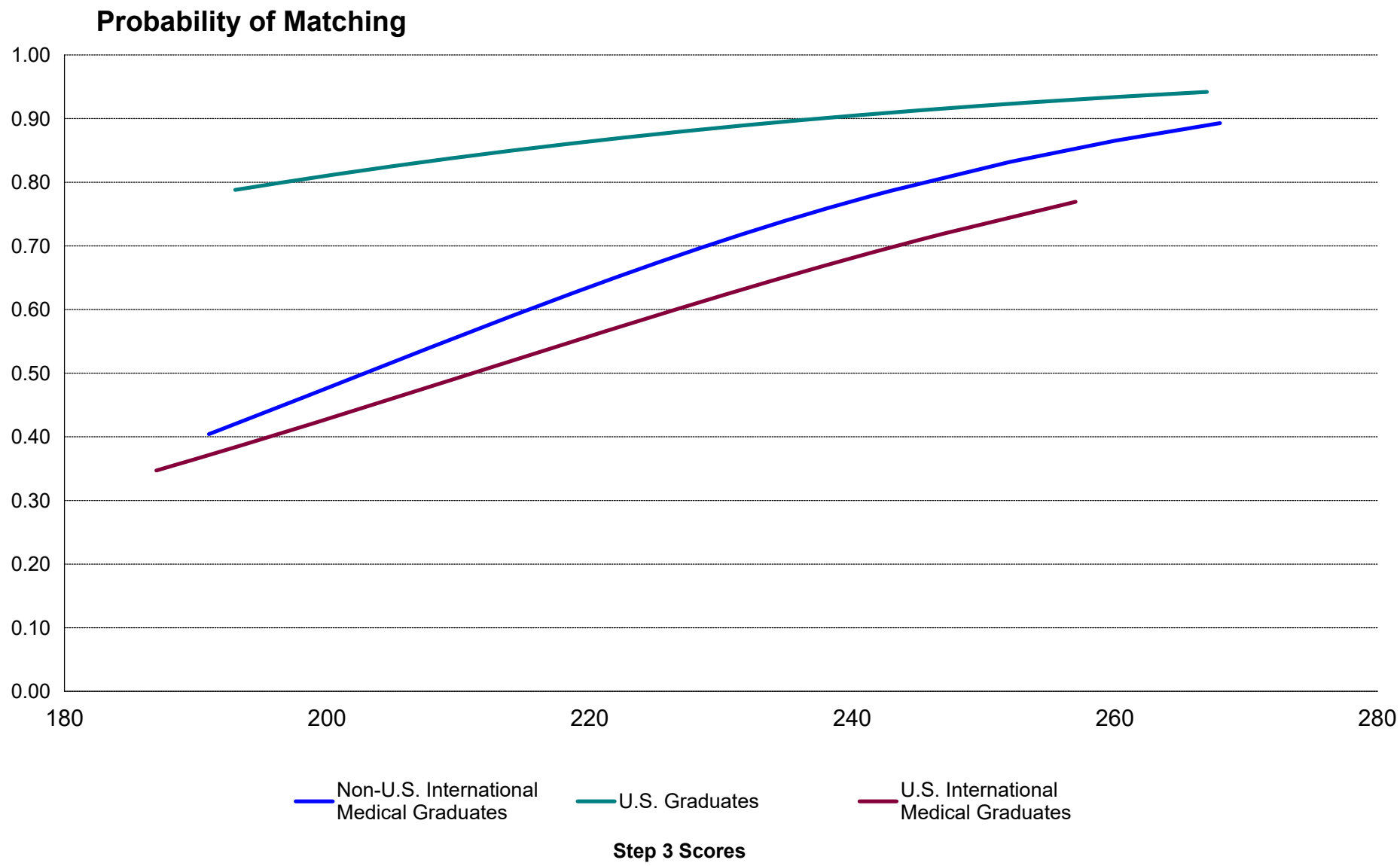
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Rheumatology



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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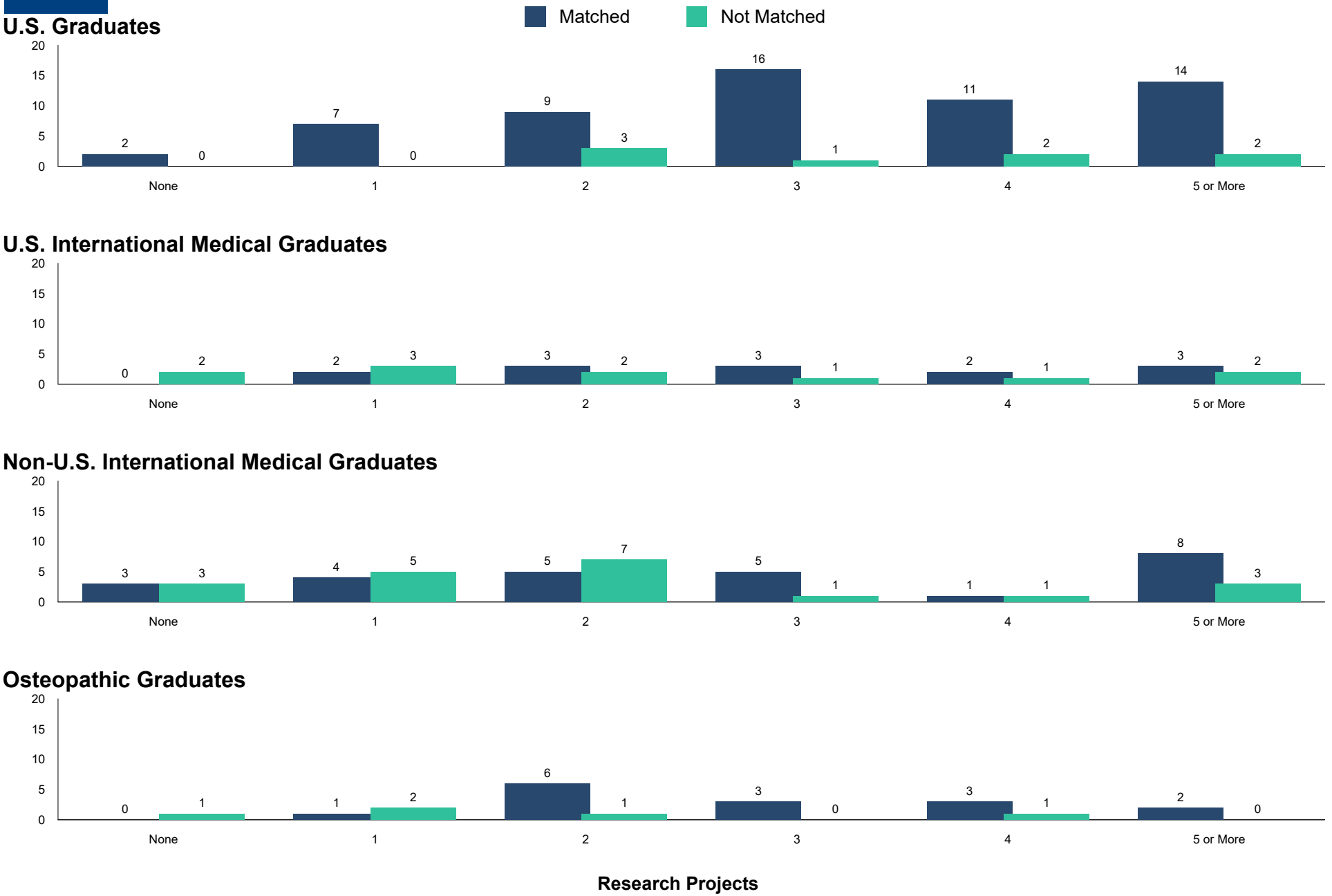
Chart-6 Number of Research Projects
Rheumatology



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Rheumatology

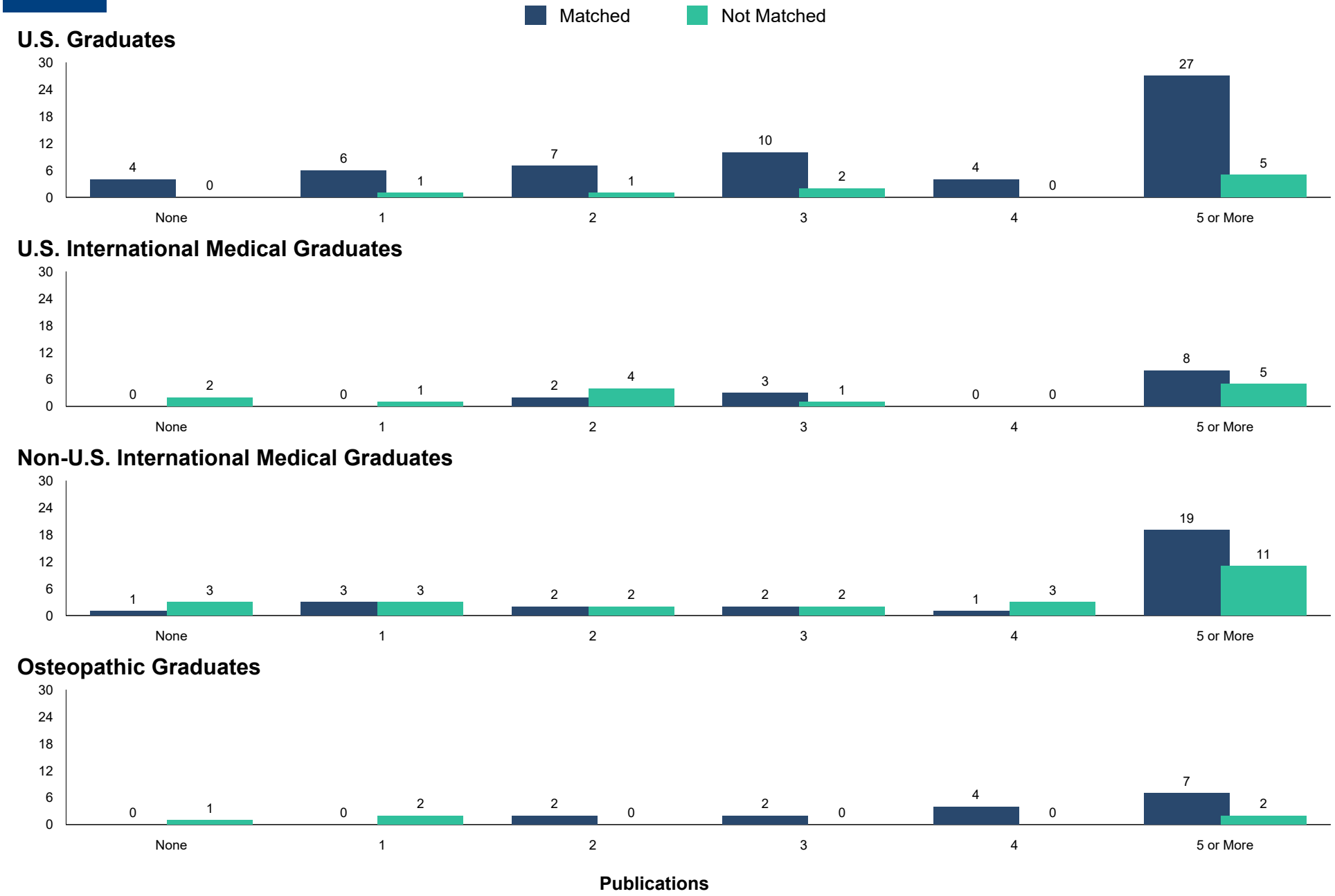

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Chart-8 Number of Work Experiences

Rheumatology

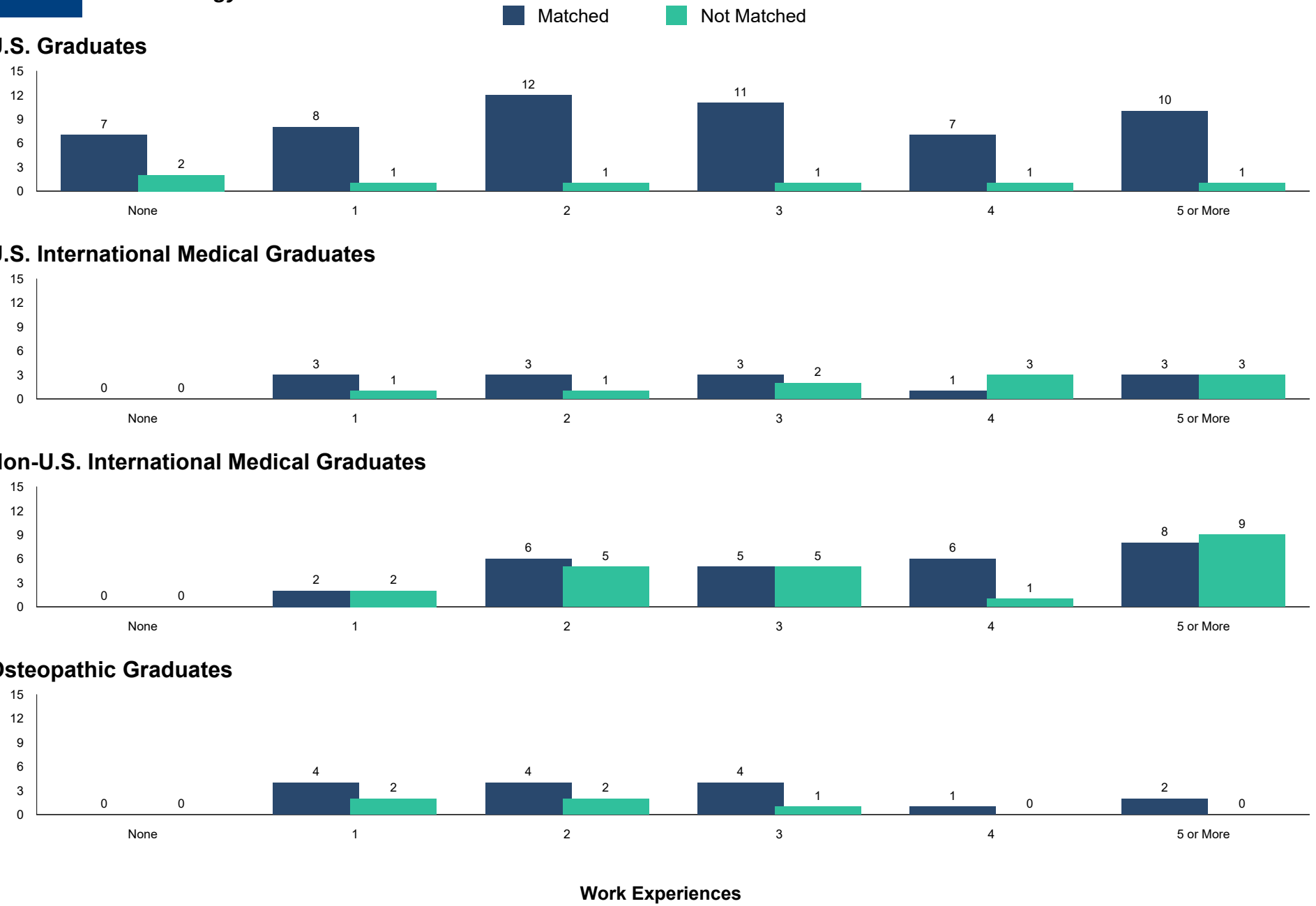

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Chart-9 Number of Volunteer Experiences

Rheumatology

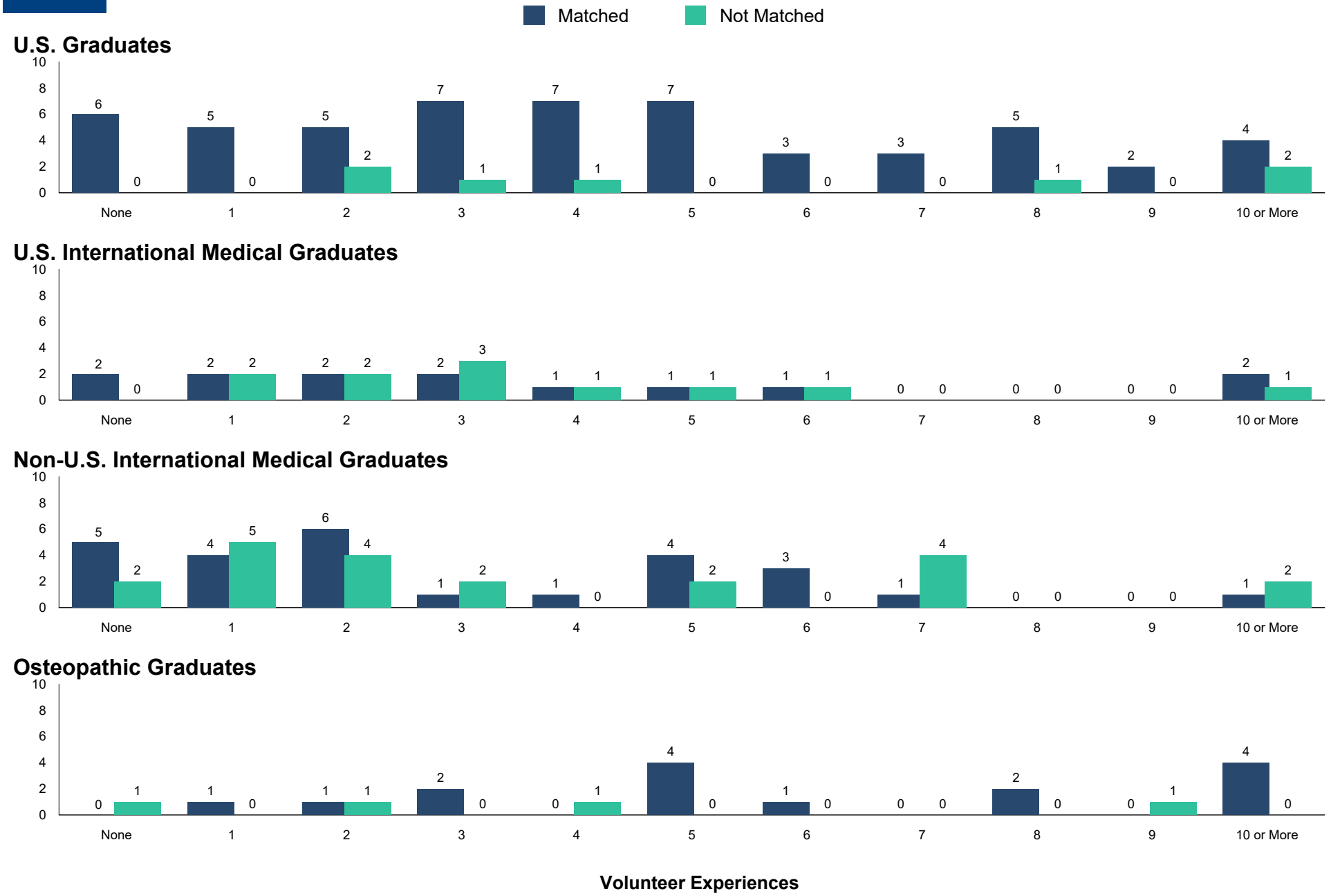

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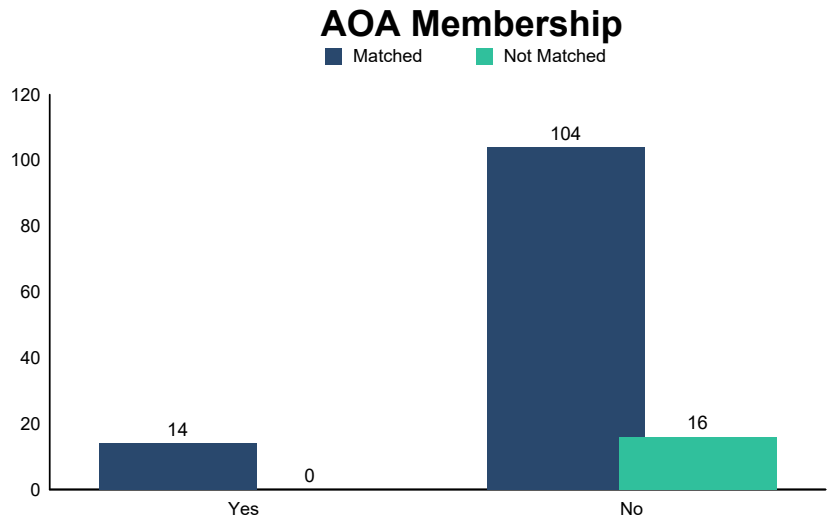
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Rheumatology



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Sleep Medicine

Table-1 Summary Statistics
Sleep Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=64)	Unmatched (n=8)	Matched (n=25)	Unmatched (n=1)	Matched (n=44)	Unmatched (n=9)	Matched (n=16)	Unmatched (n=2)
1.	Mean number of contiguous ranks	5.1	3.1	5.5	n/a	7.1	3.2	5.6	2.0
2.	Mean number of distinct specialties ranked	1.0	1.0	1.0	n/a	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	223	258	219	n/a	226	211	n/a	n/a
4.	Mean USMLE Step 2 score	232	245	227	n/a	233	220	n/a	n/a
5.	Mean USMLE Step 3 score	217	250	211	n/a	217	210	n/a	n/a
6.	Mean number of research experiences	3.8	3.0	1.5	n/a	2.6	2.2	4.2	4.0
7.	Mean number of abstracts, presentations, and publications	7.0	12.0	3.8	n/a	6.3	7.6	6.0	1.0
8.	Mean number of work experiences	3.2	3.0	2.8	n/a	4.9	5.0	3.0	5.0
9.	Mean number of volunteer experiences	4.5	8.0	2.1	n/a	3.4	4.7	4.5	3.0
10.	Percentage who are AOA members	12.5	12.5	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

Source: NRMP Data Warehouse

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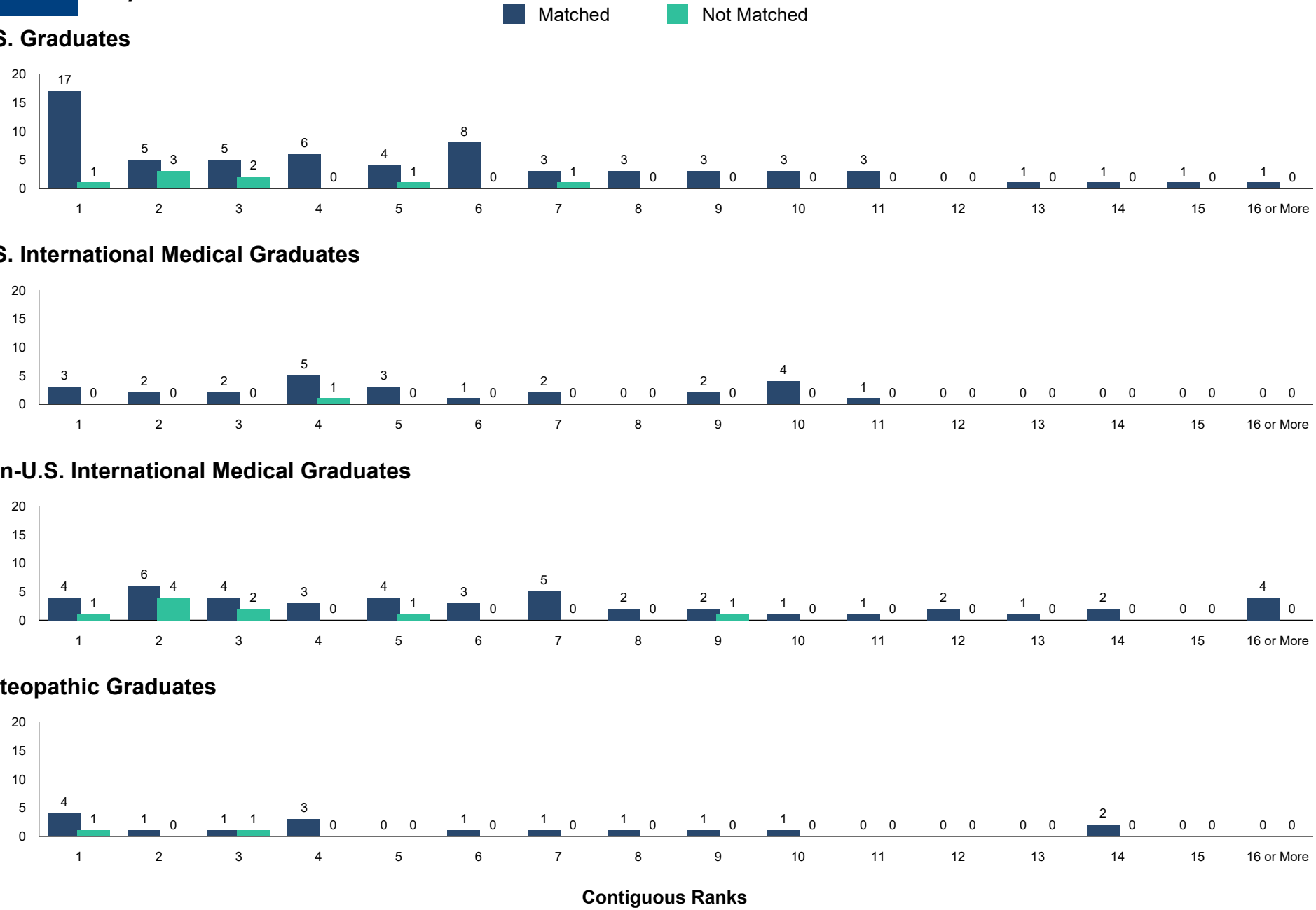
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Sleep Medicine



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Sleep Medicine

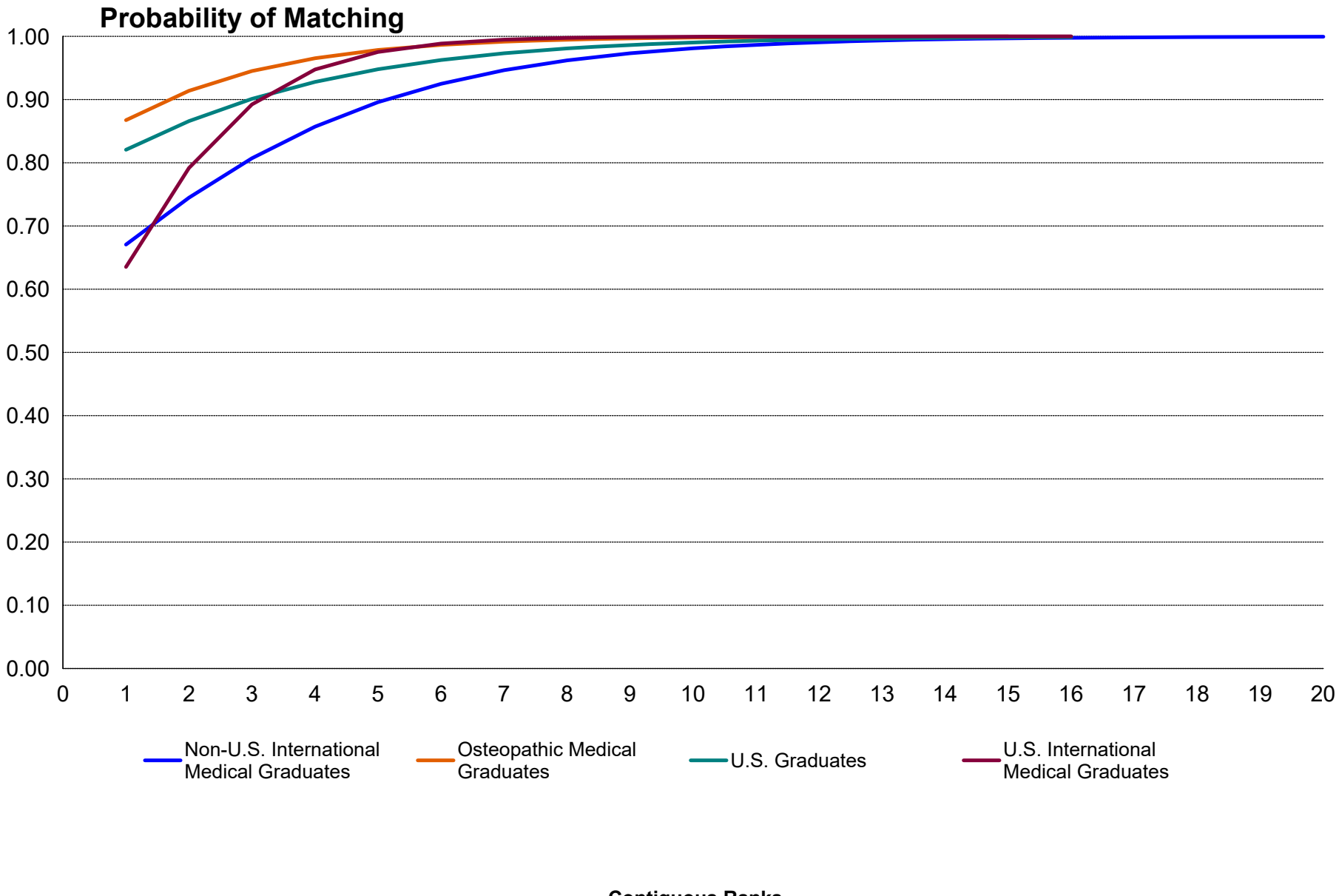

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Chart-2 Number of Distinct Specialties Ranked

Sleep Medicine

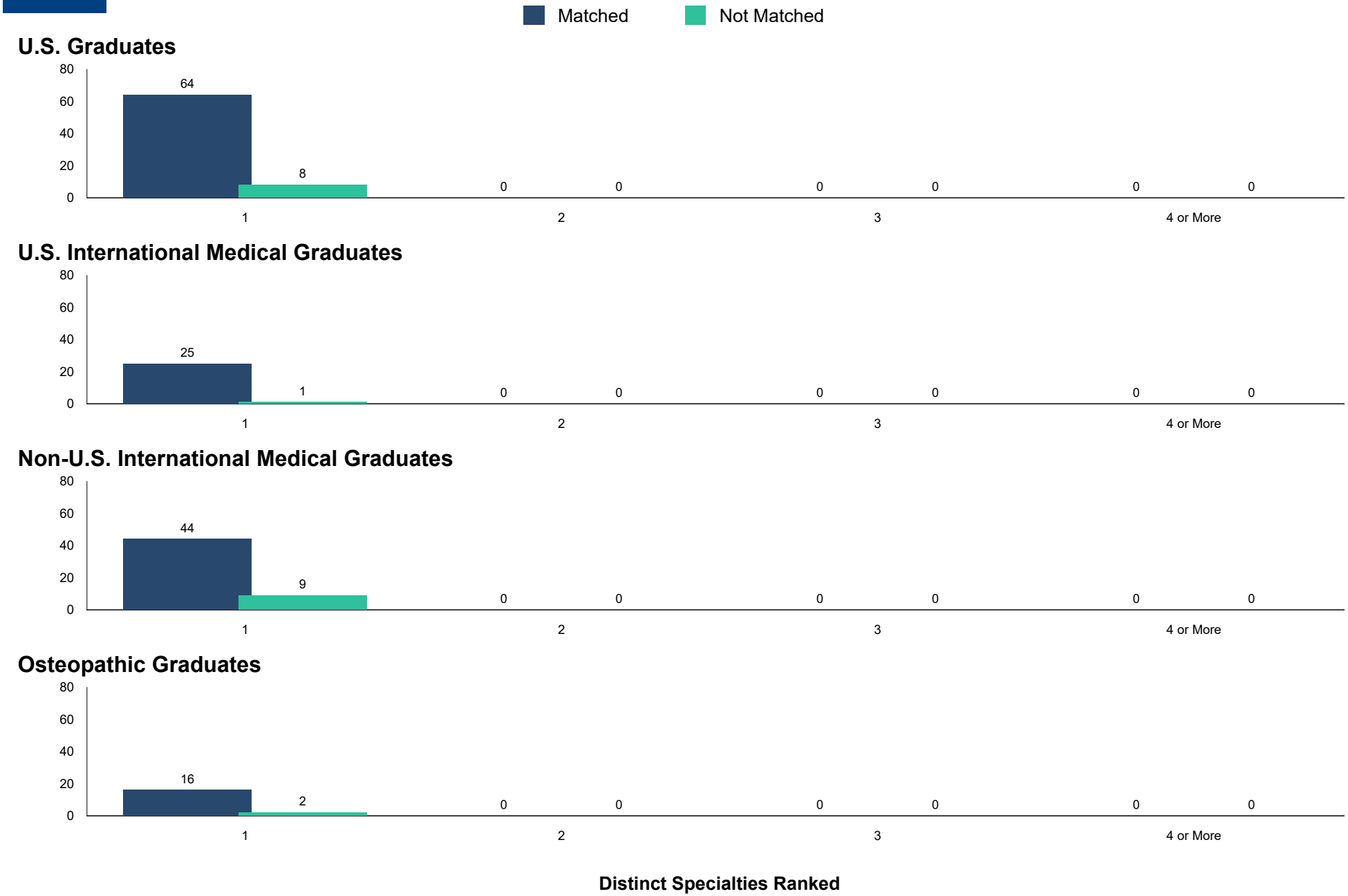

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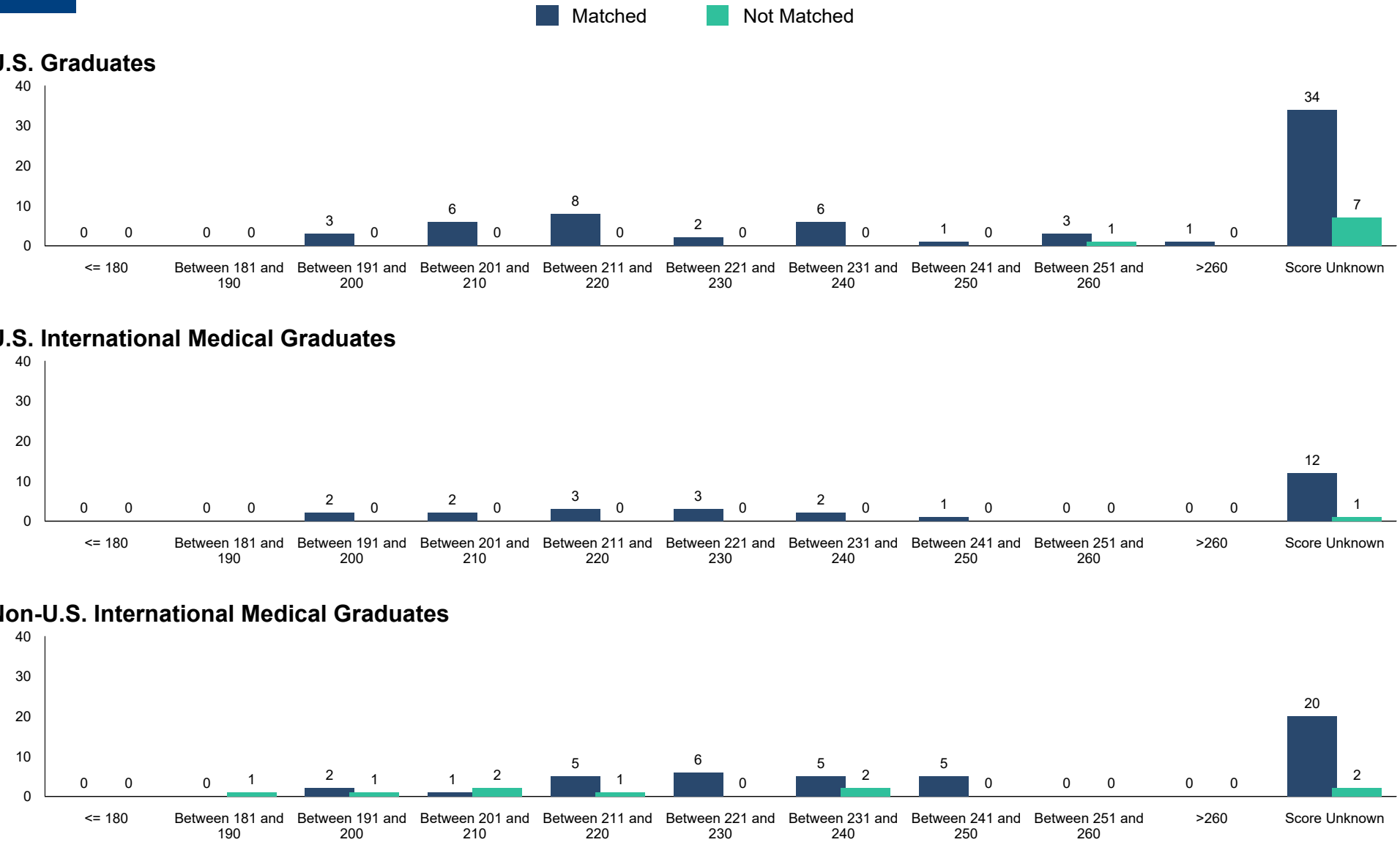
Chart-3 USMLE Step 1 Scores
Sleep Medicine



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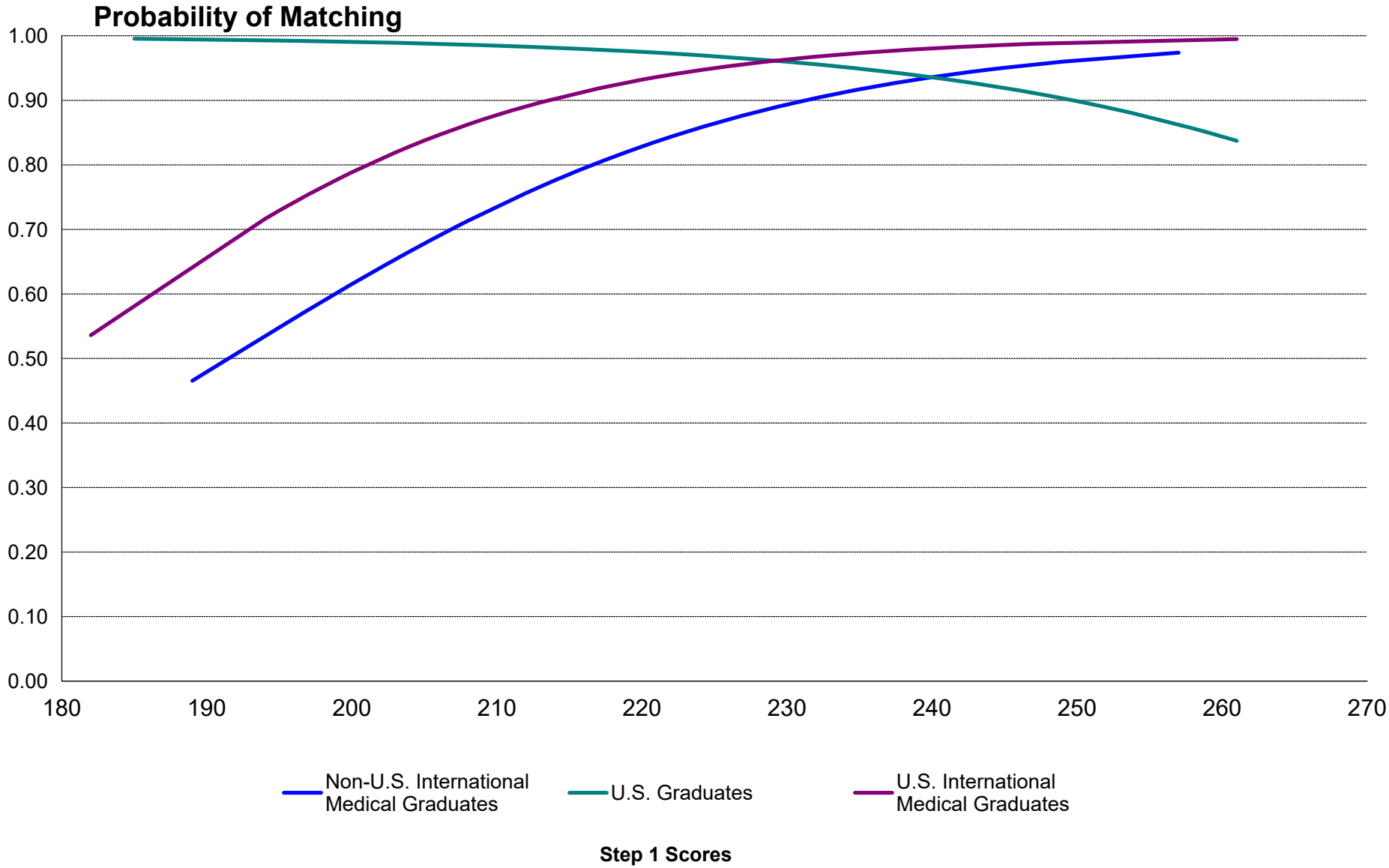
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Sleep Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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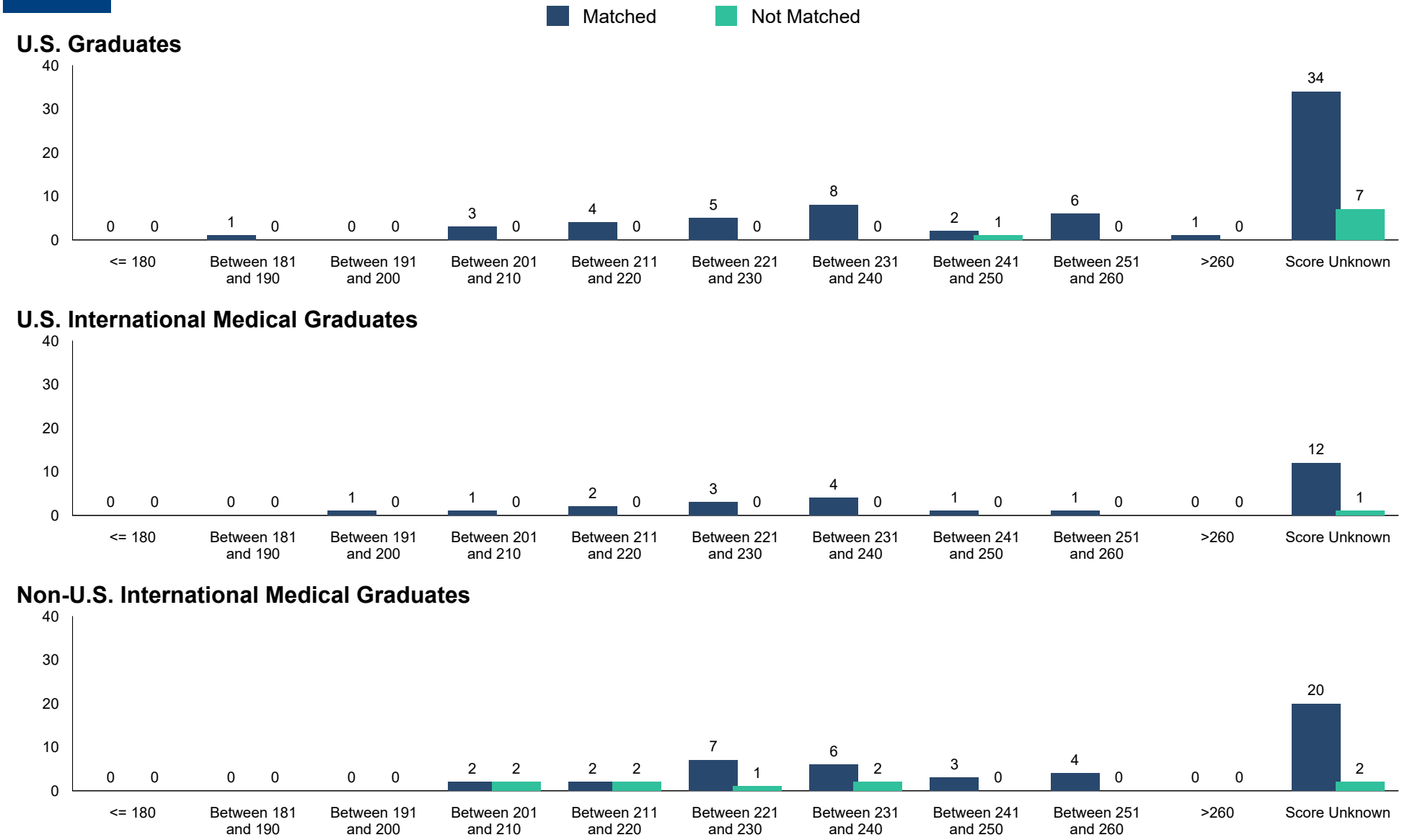
Chart-4 USMLE Step 2 Scores
Sleep Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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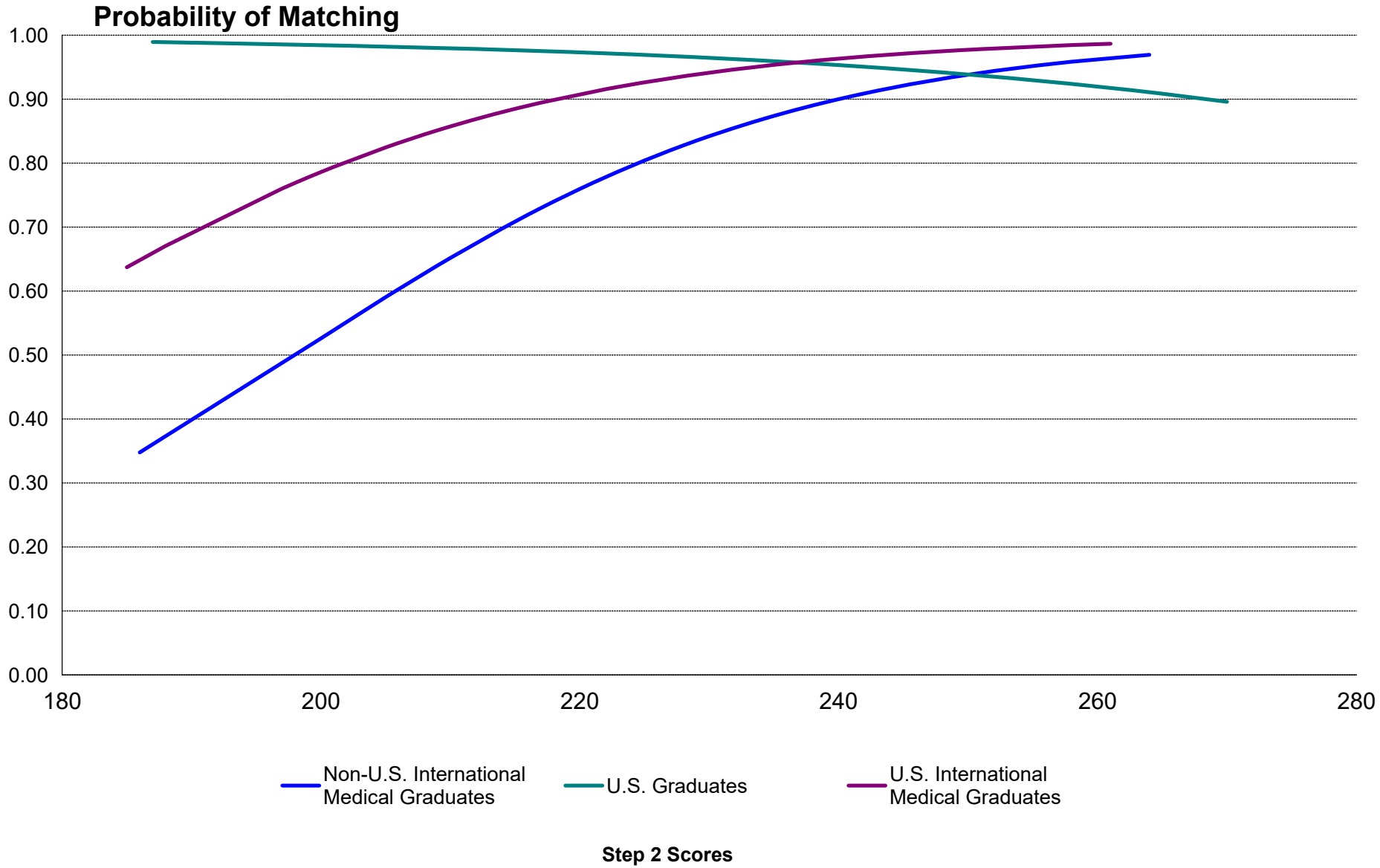
Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Sleep Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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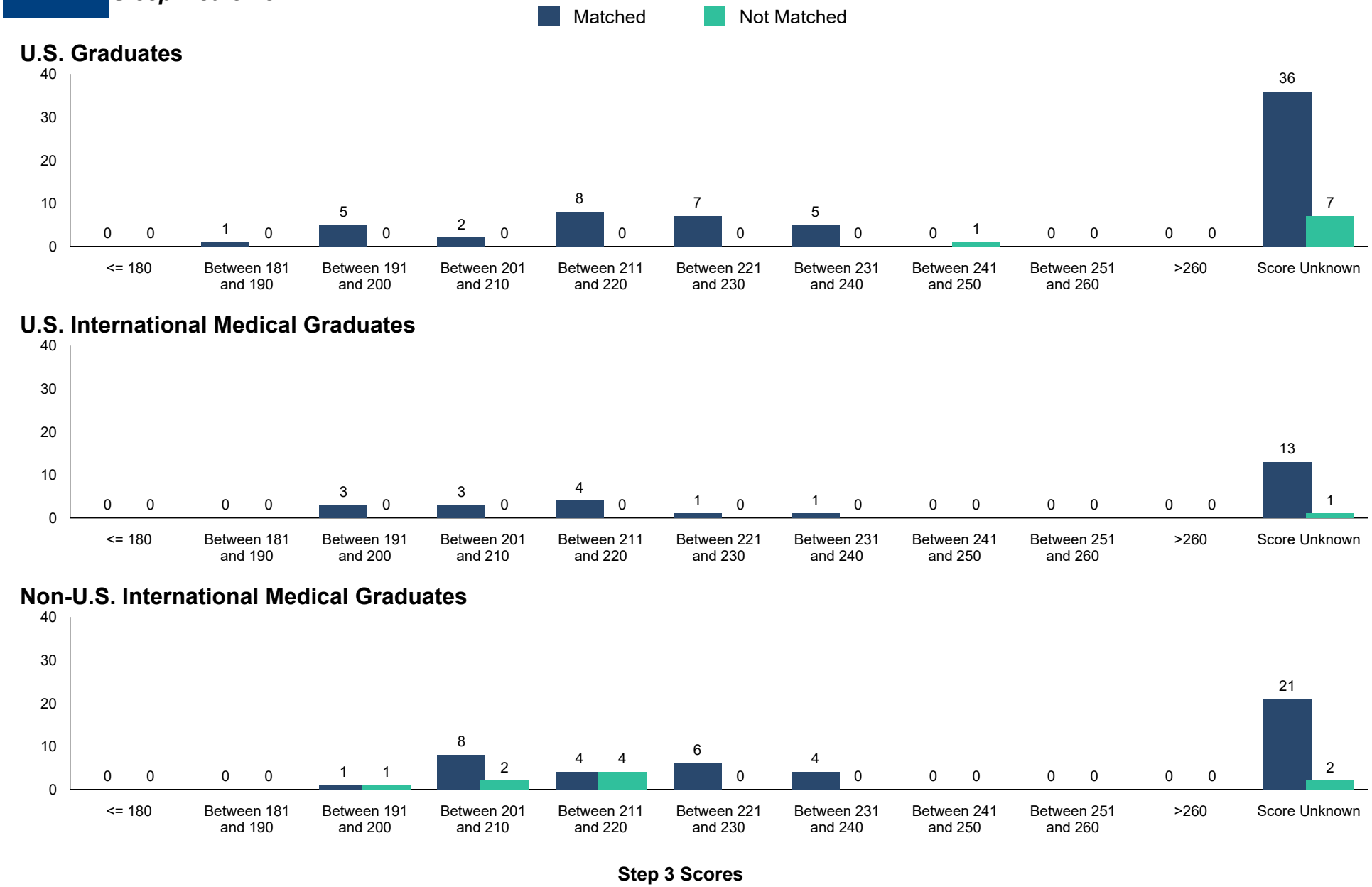
Chart-5 USMLE Step 3 Scores
Sleep Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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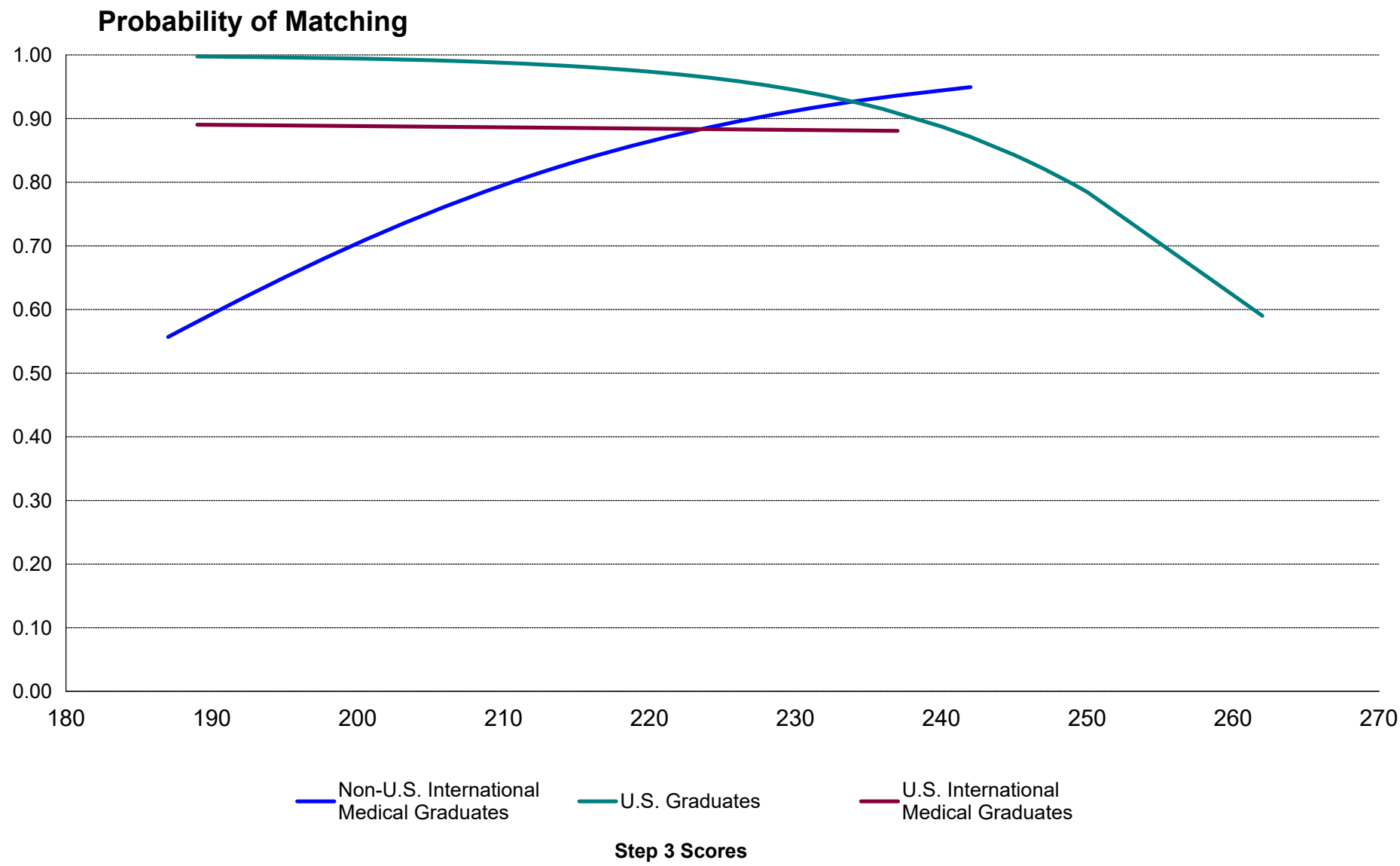
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Sleep Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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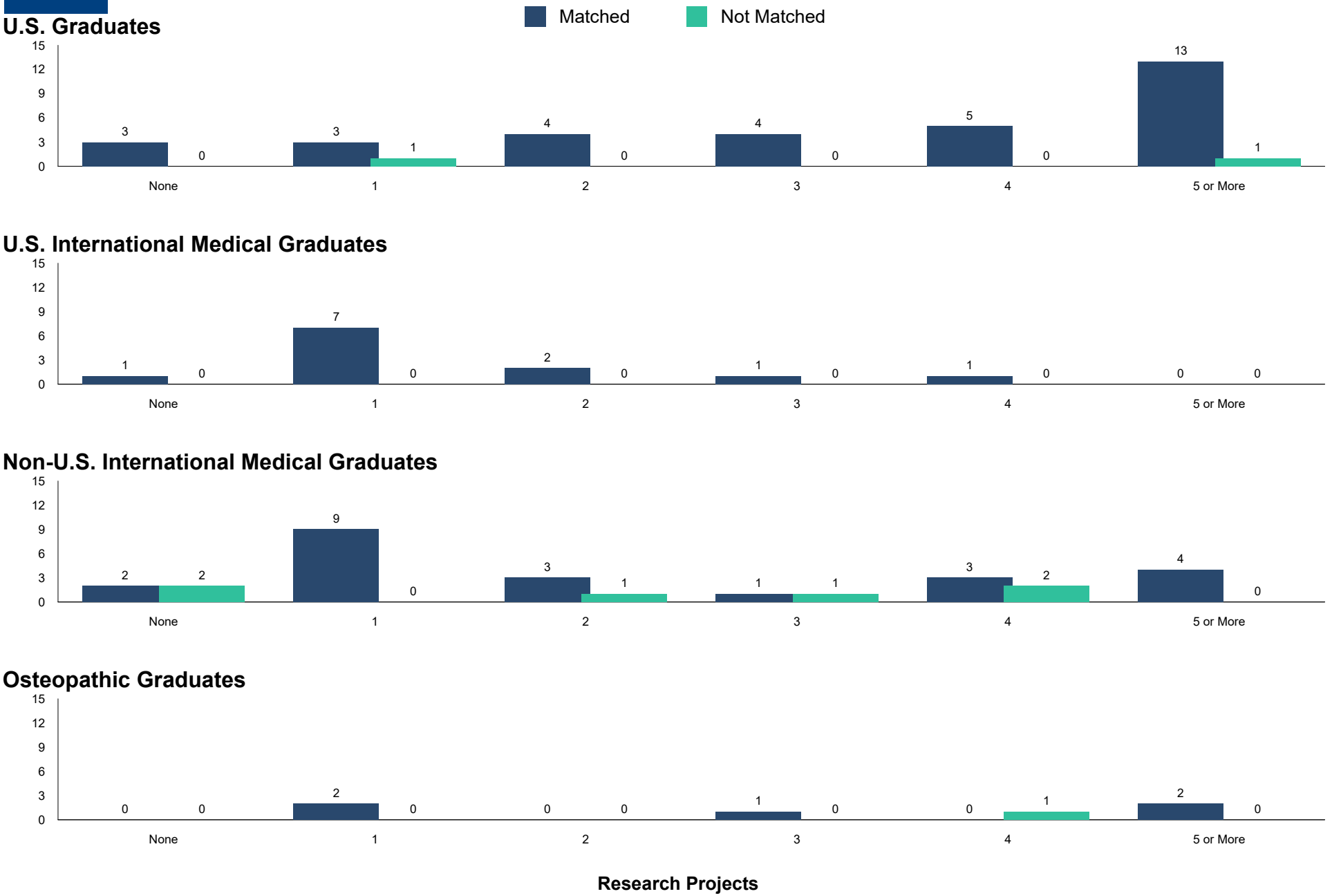
Chart-6 Number of Research Projects
Sleep Medicine



Source: NRMP Data Warehouse

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Chart-7 Number of Abstracts, Presentations, and Publications

Sleep Medicine

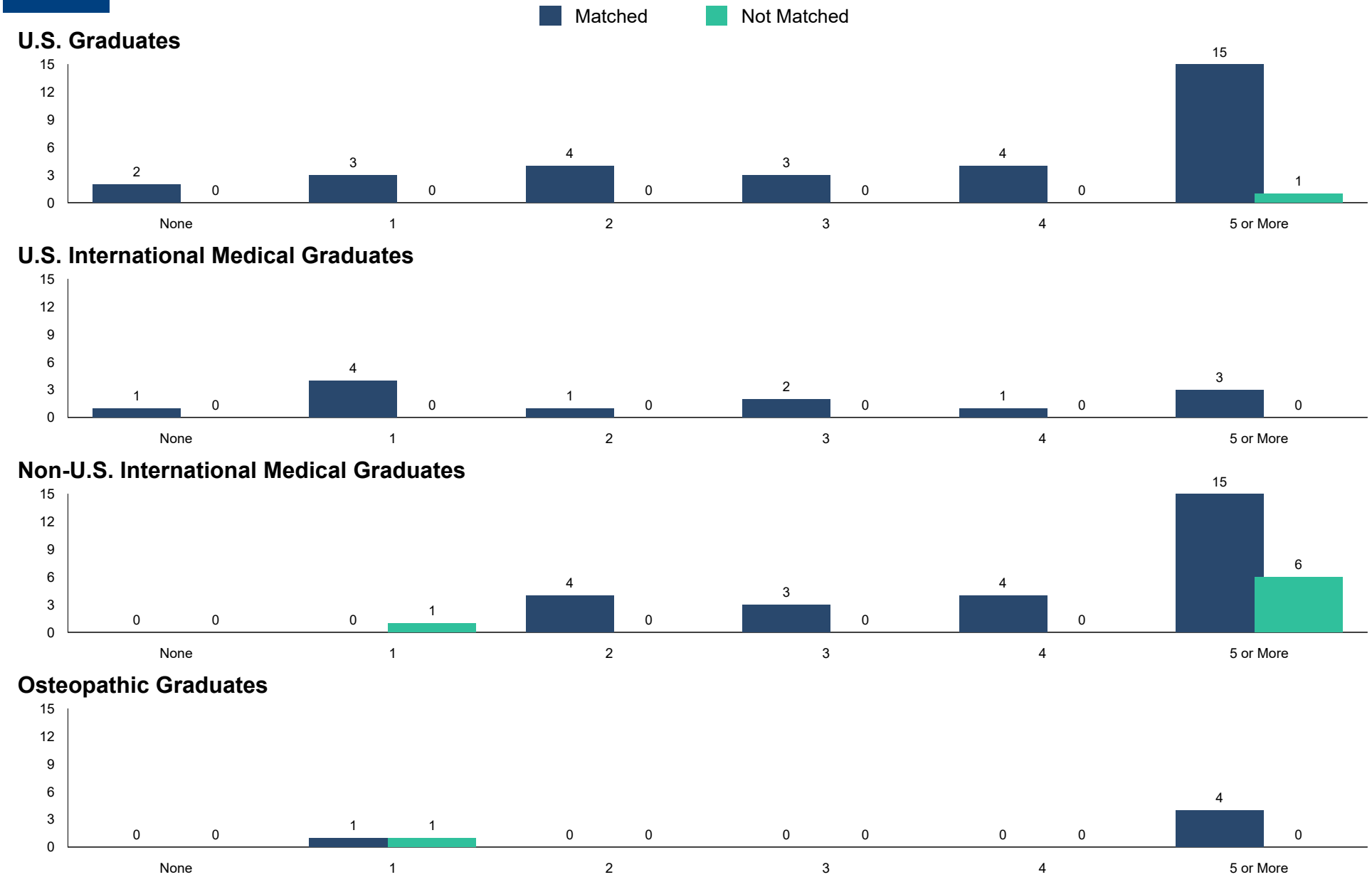

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Chart-8 Number of Work Experiences
Sleep Medicine

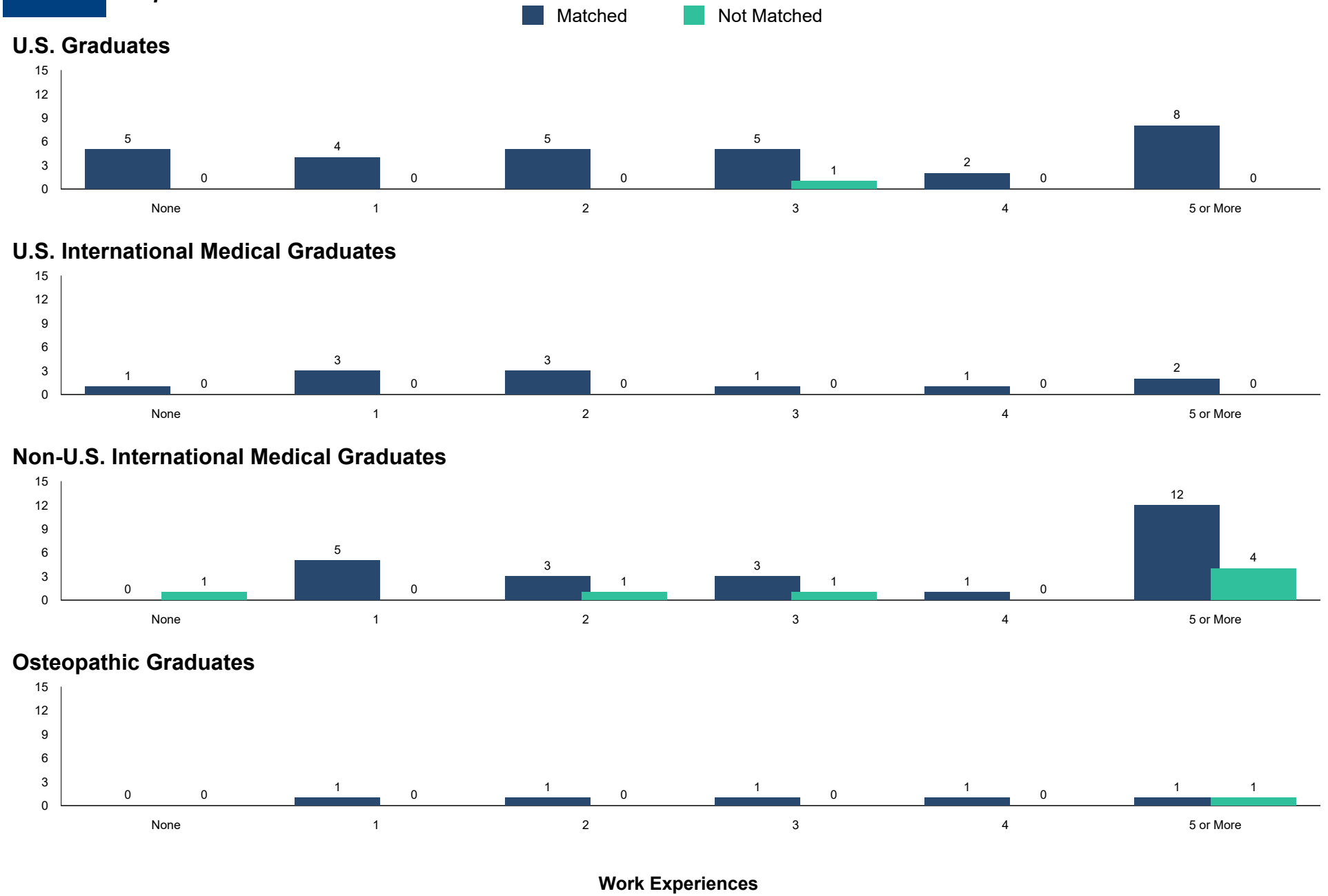

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Chart-9 Number of Volunteer Experiences

Sleep Medicine

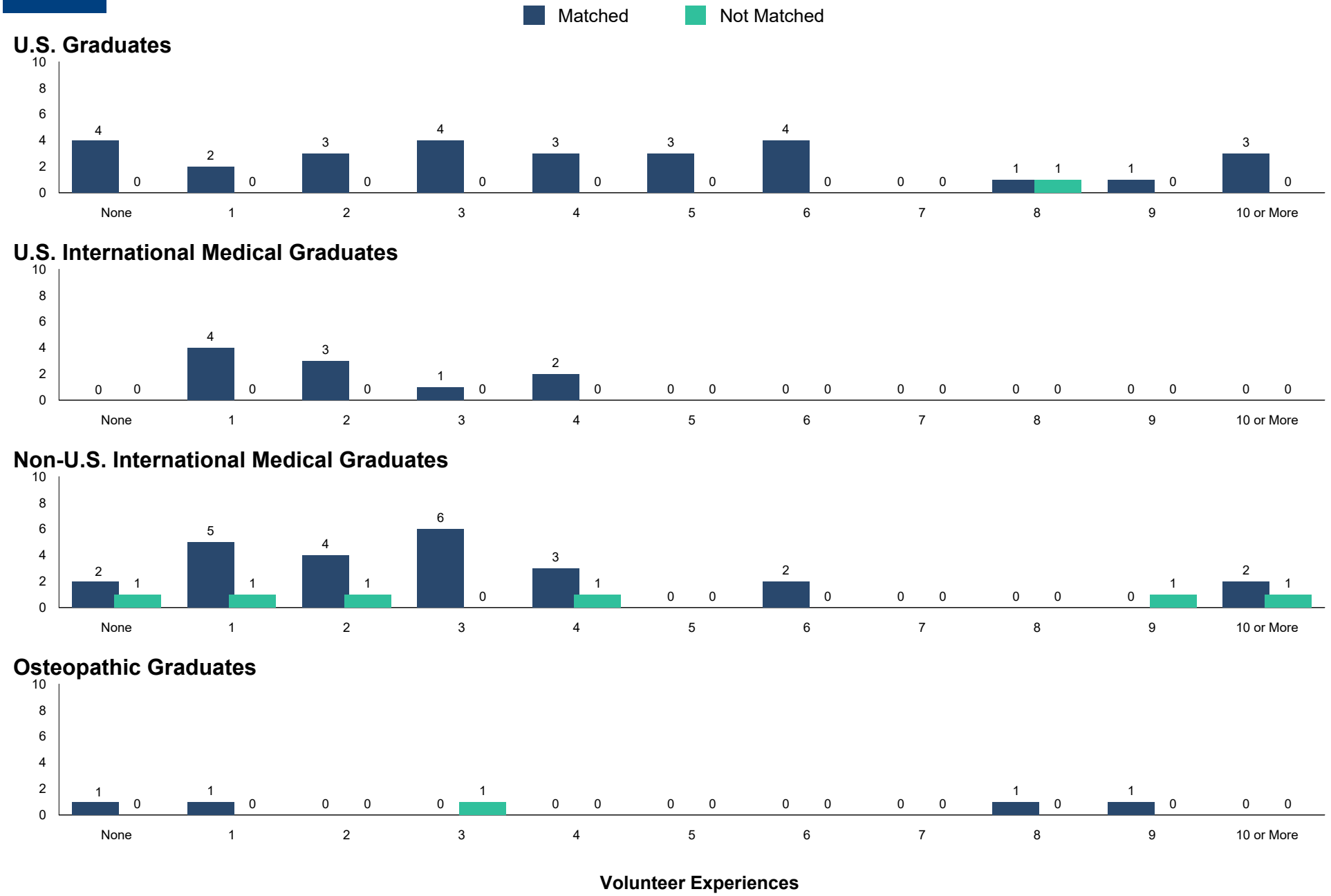

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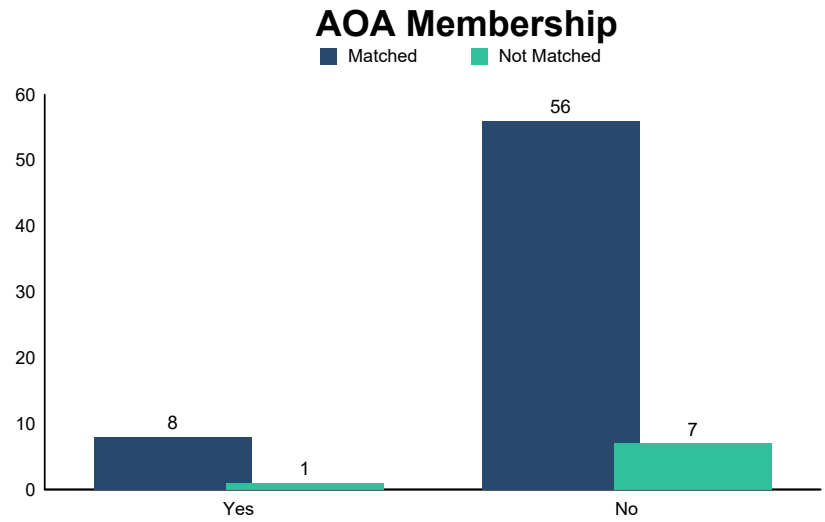
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Sleep Medicine



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Sports Medicine

Table-1 Summary Statistics
Sports Medicine

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=128)	Unmatched (n=32)	Matched (n=27)	Unmatched (n=19)	Matched (n=8)	Unmatched (n=4)	Matched (n=87)	Unmatched (n=30)
1.	Mean number of contiguous ranks	4.4	2.9	5.6	1.9	3.3	1.8	5.4	3.2
2.	Mean number of distinct specialties ranked	1.7	1.5	1.6	1.4	1.8	1.0	1.4	1.4
3.	Mean USMLE Step 1 score	222	223	218	204	220	222	n/a	n/a
4.	Mean USMLE Step 2 score	234	227	224	216	237	228	n/a	n/a
5.	Mean USMLE Step 3 score	220	218	215	203	225	218	n/a	n/a
6.	Mean number of research experiences	3.3	3.9	1.6	2.2	4.0	2.0	2.3	1.8
7.	Mean number of abstracts, presentations, and publications	5.7	7.3	2.2	2.6	7.0	4.7	3.9	2.5
8.	Mean number of work experiences	4.8	5.2	4.1	5.9	6.5	4.7	6.7	5.0
9.	Mean number of volunteer experiences	9.6	8.1	9.1	5.5	6.0	3.0	13.1	9.7
10.	Percentage who are AOA members	10.2	9.4	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

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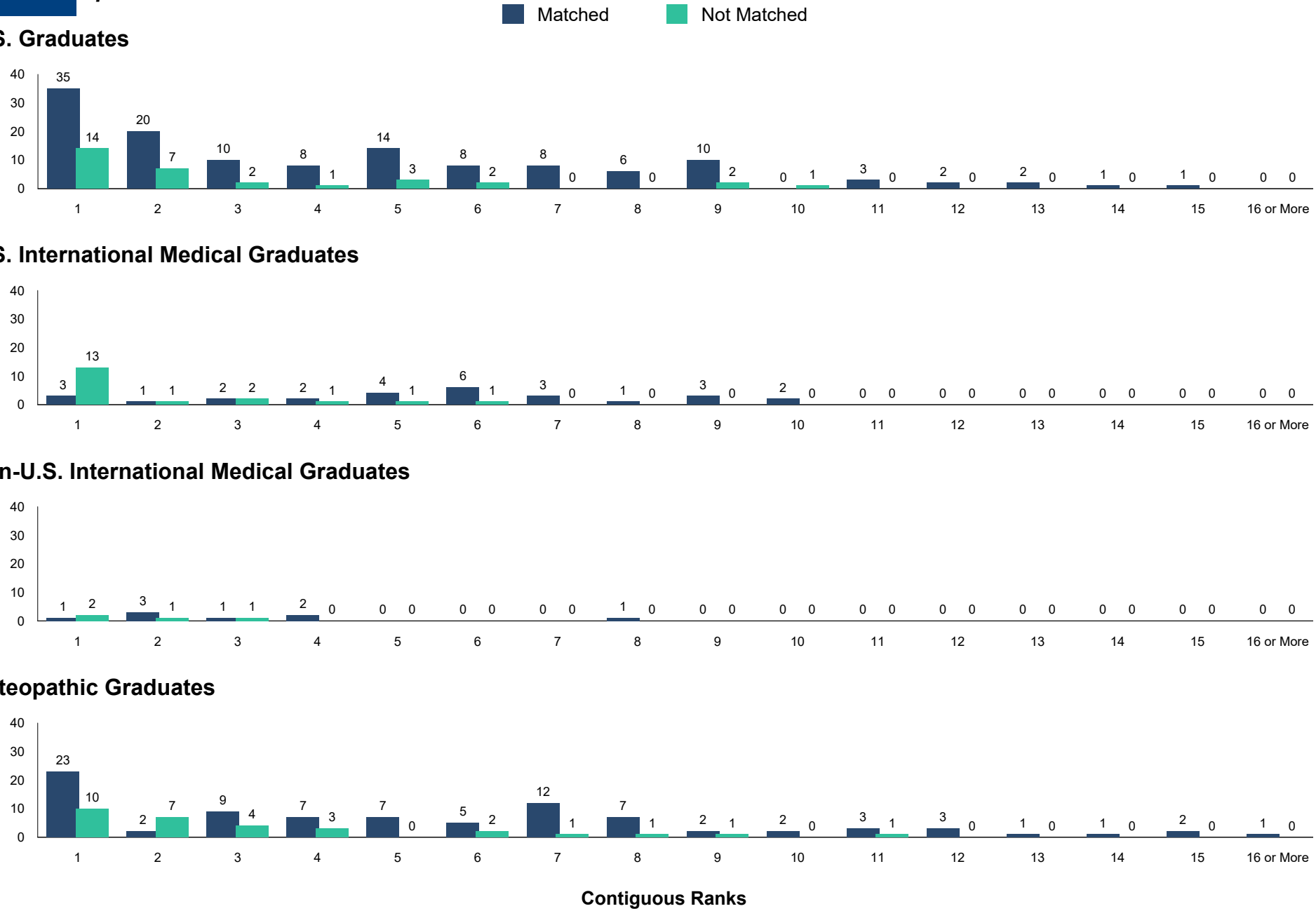
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Sports Medicine



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Sports Medicine

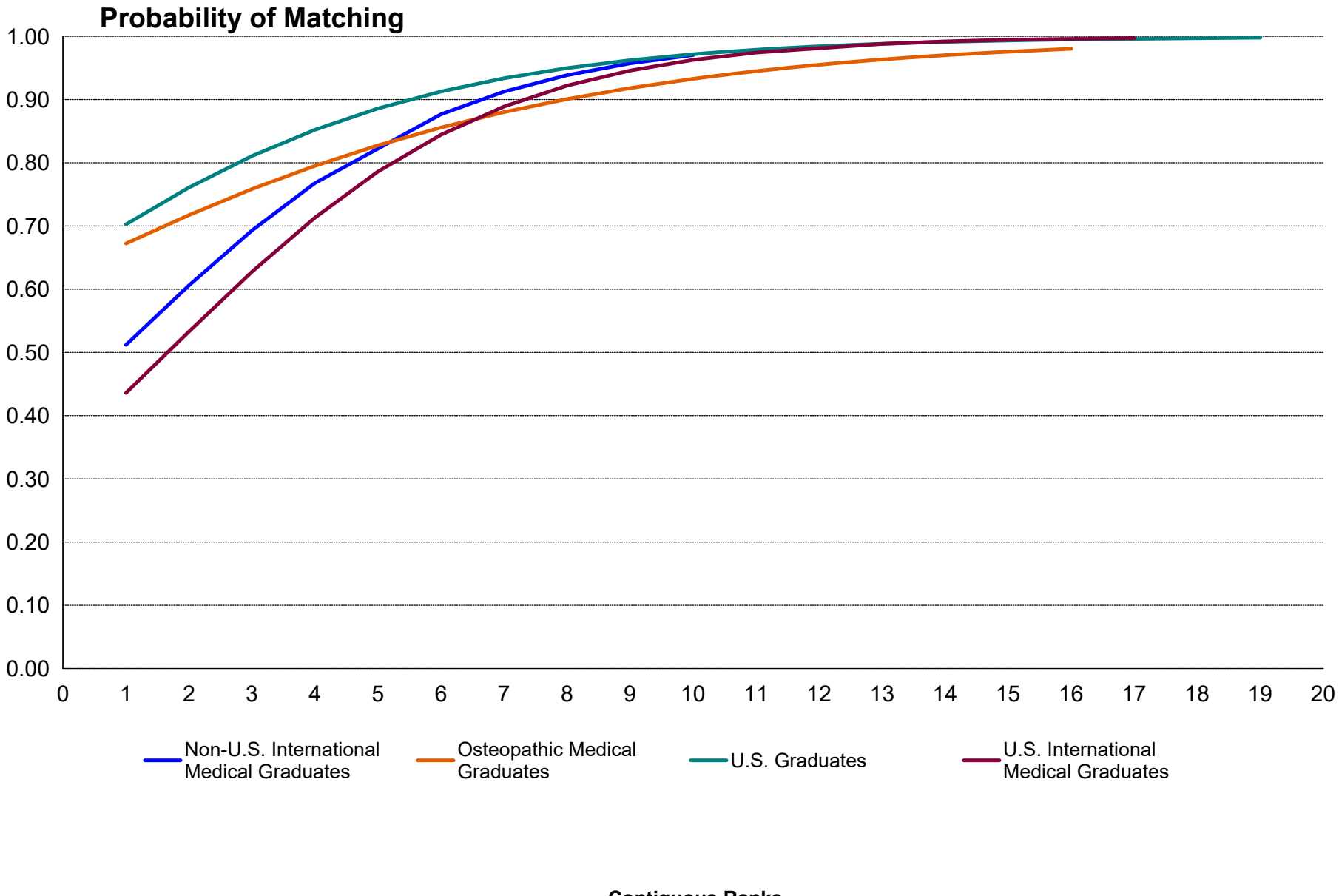

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Chart-2 Number of Distinct Specialties Ranked

Sports Medicine

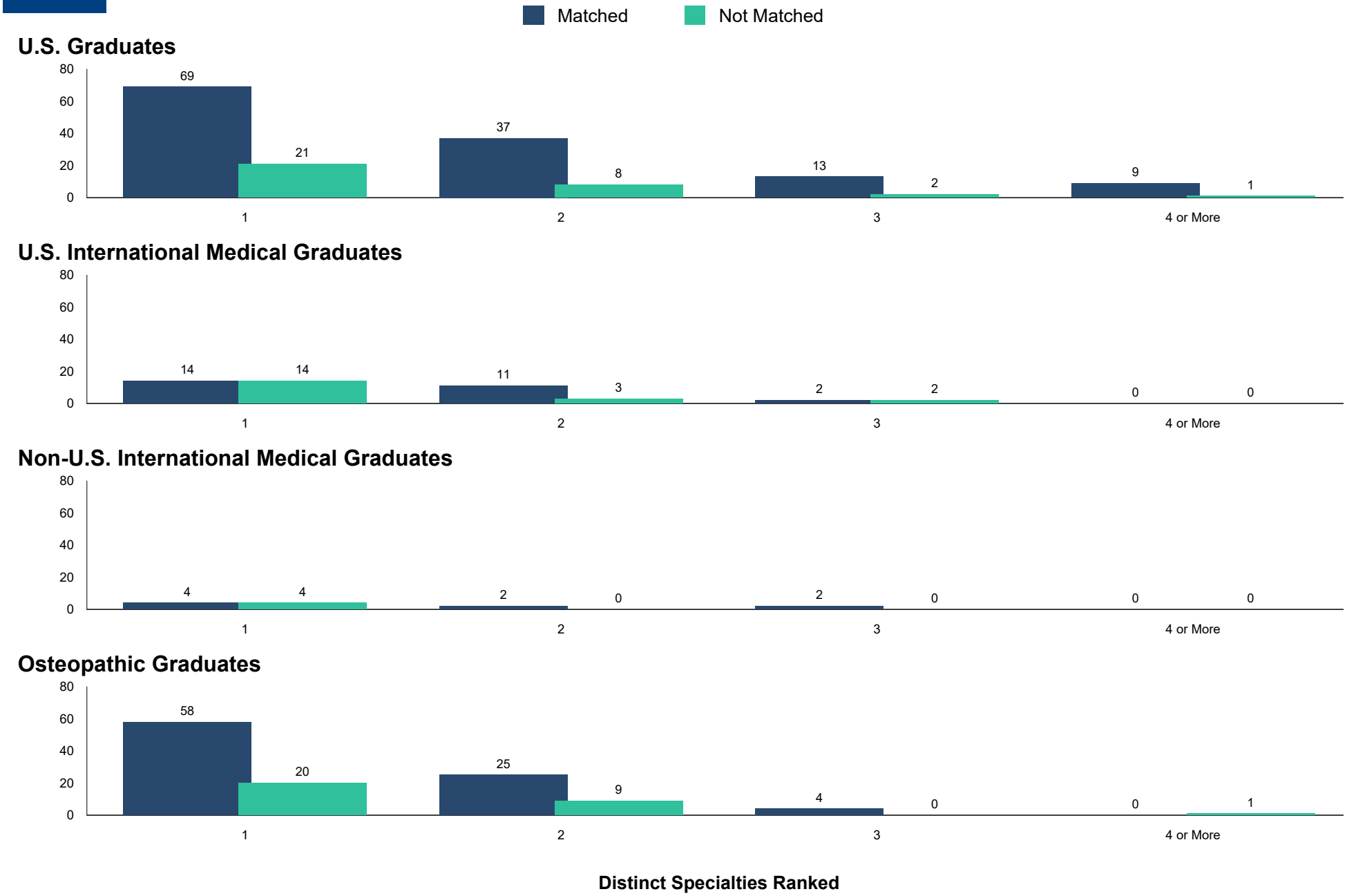

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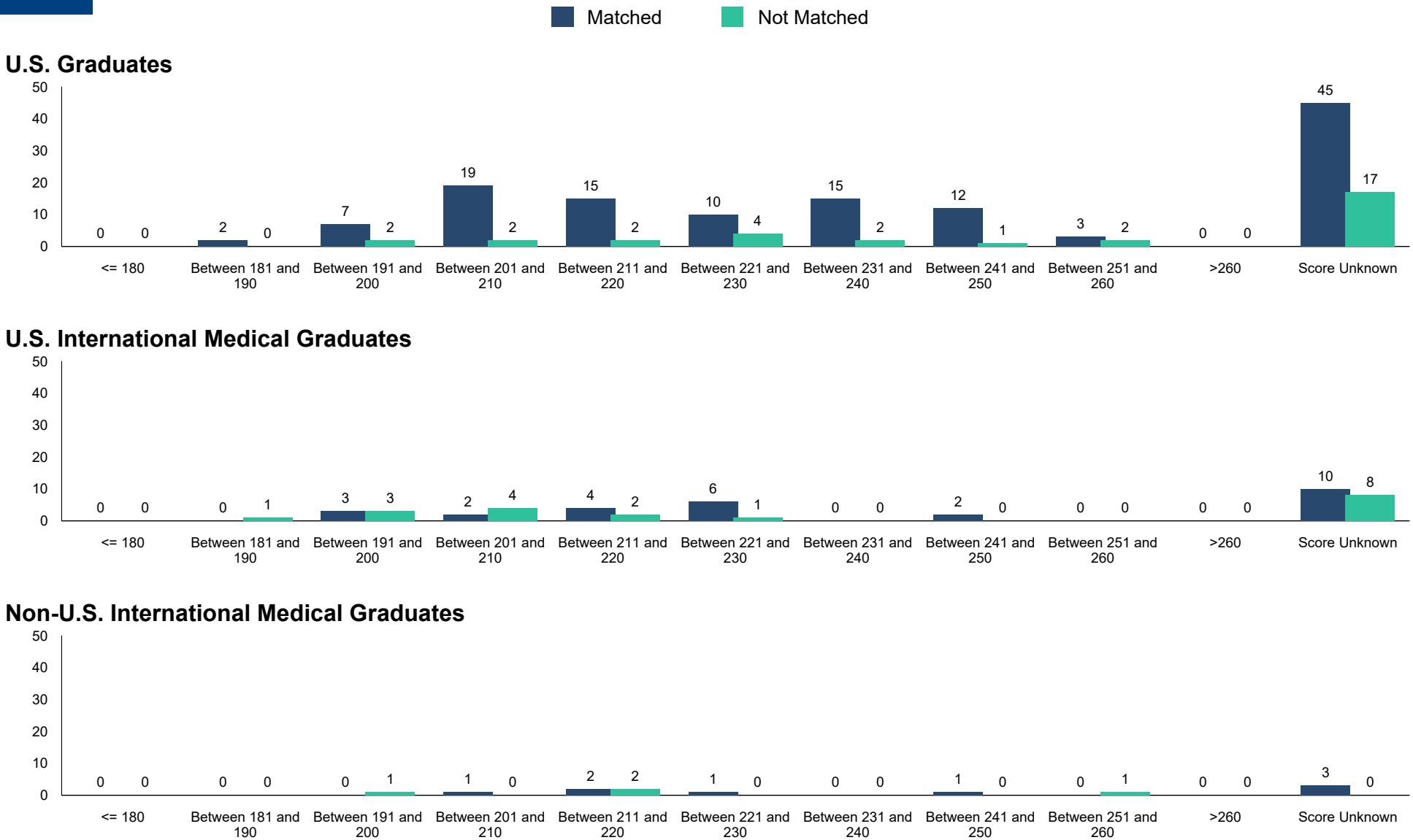
Chart-3 USMLE Step 1 Scores

Sports Medicine



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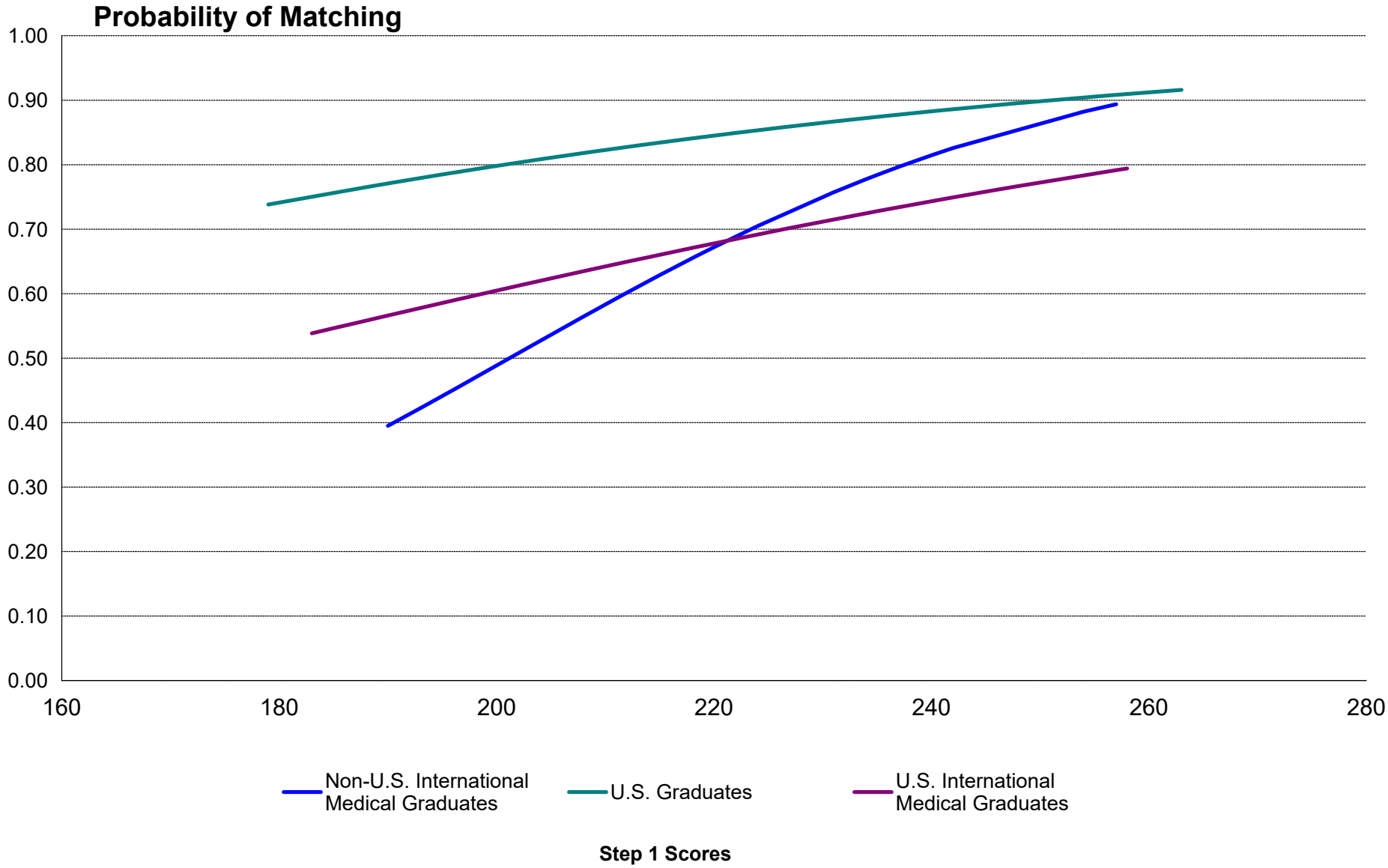
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Sports Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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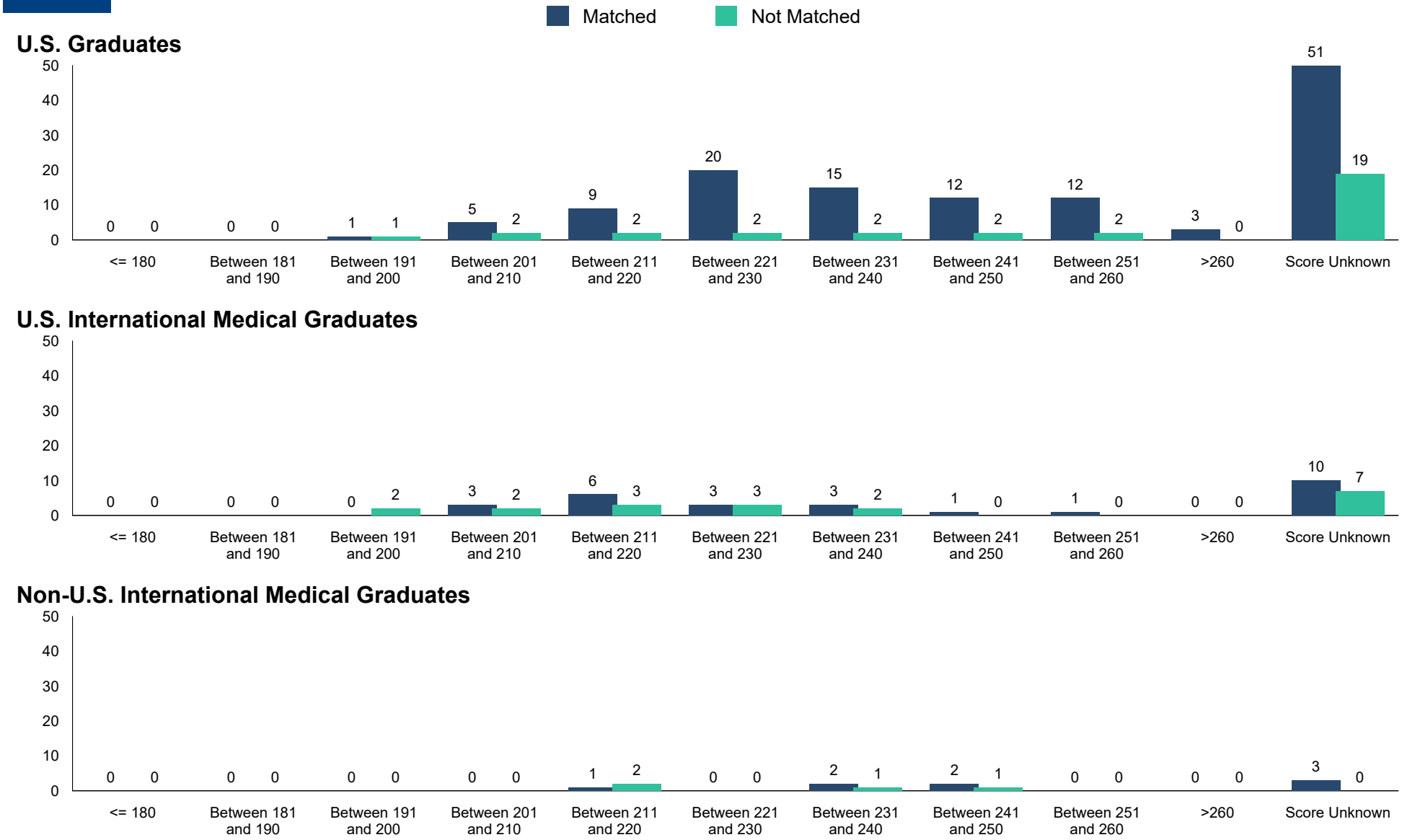
Chart-4 USMLE Step 2 Scores
Sports Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Sports Medicine

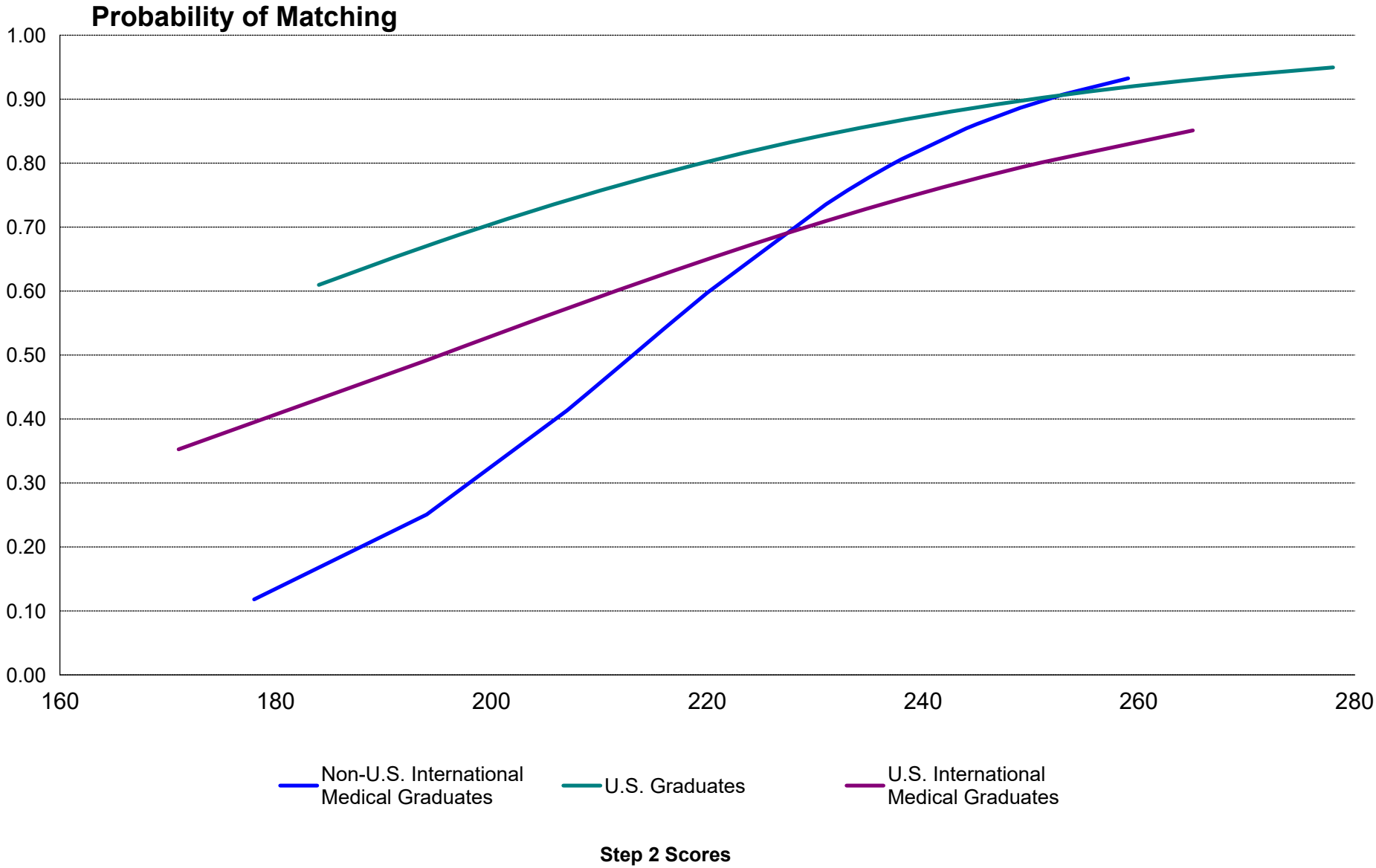

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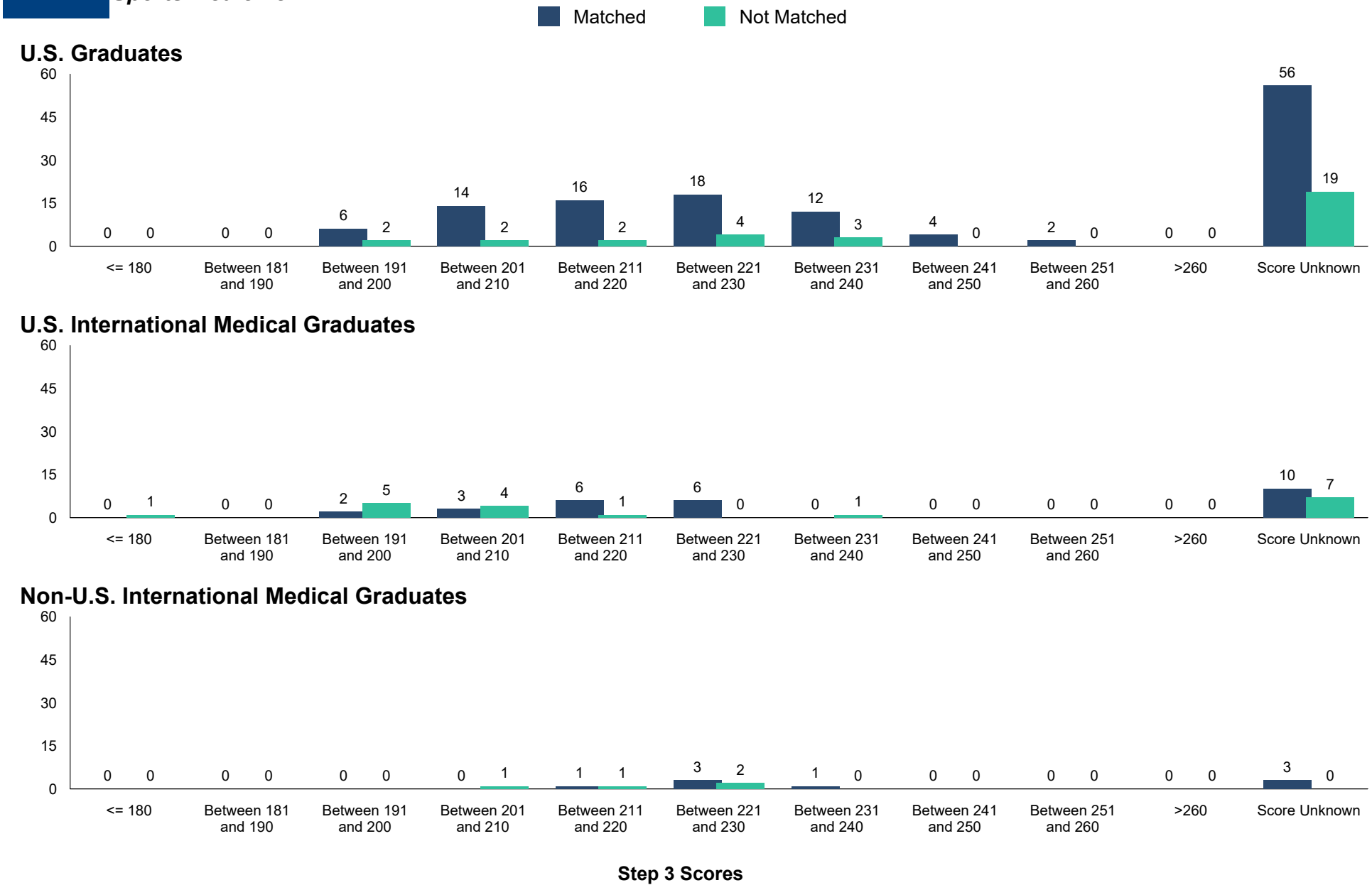
Chart-5 USMLE Step 3 Scores
Sports Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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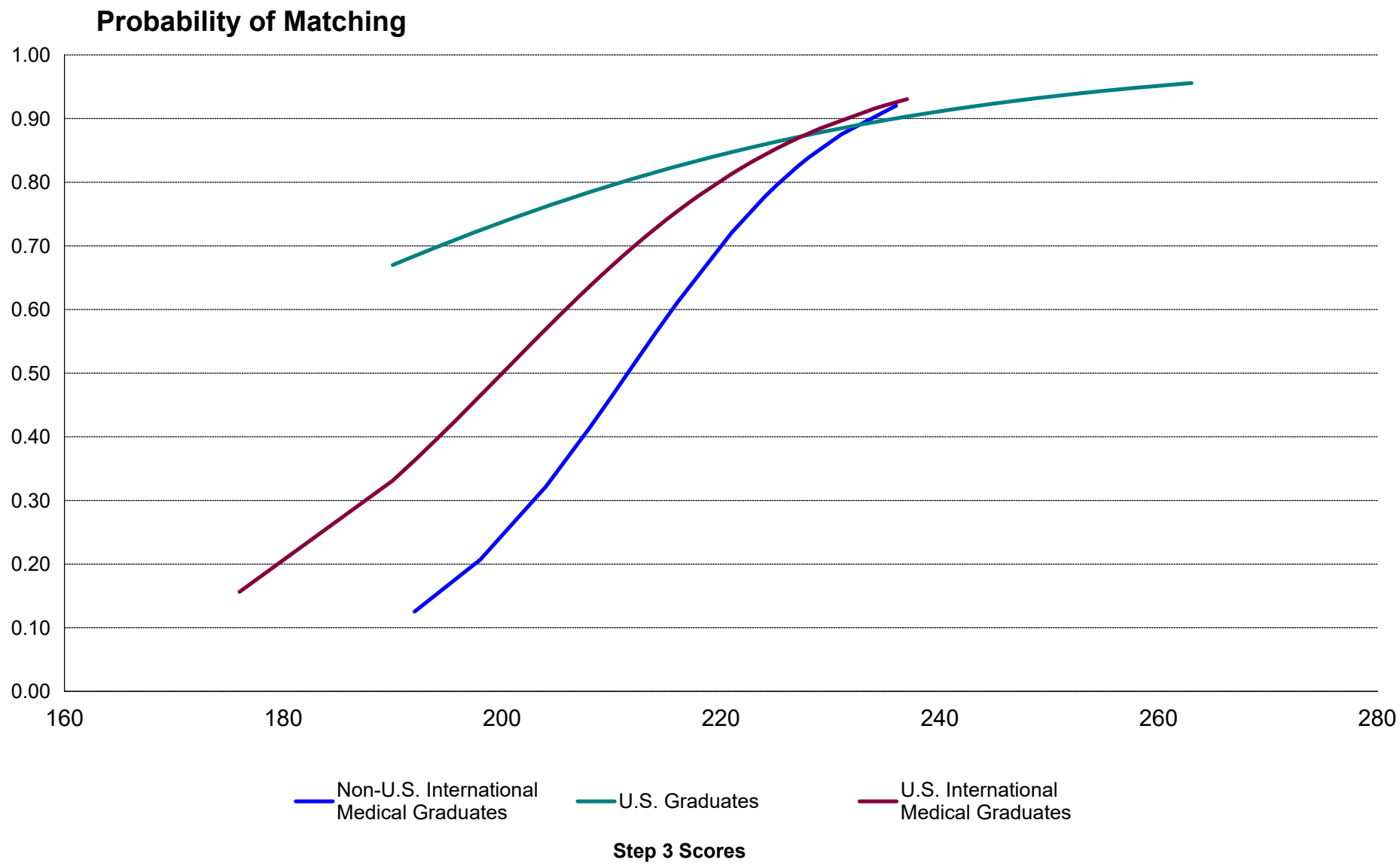
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score
Sports Medicine



Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse. Note: Probabilities calculated based on 2016-2018 applicants.

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Chart-6 Number of Research Projects
Sports Medicine

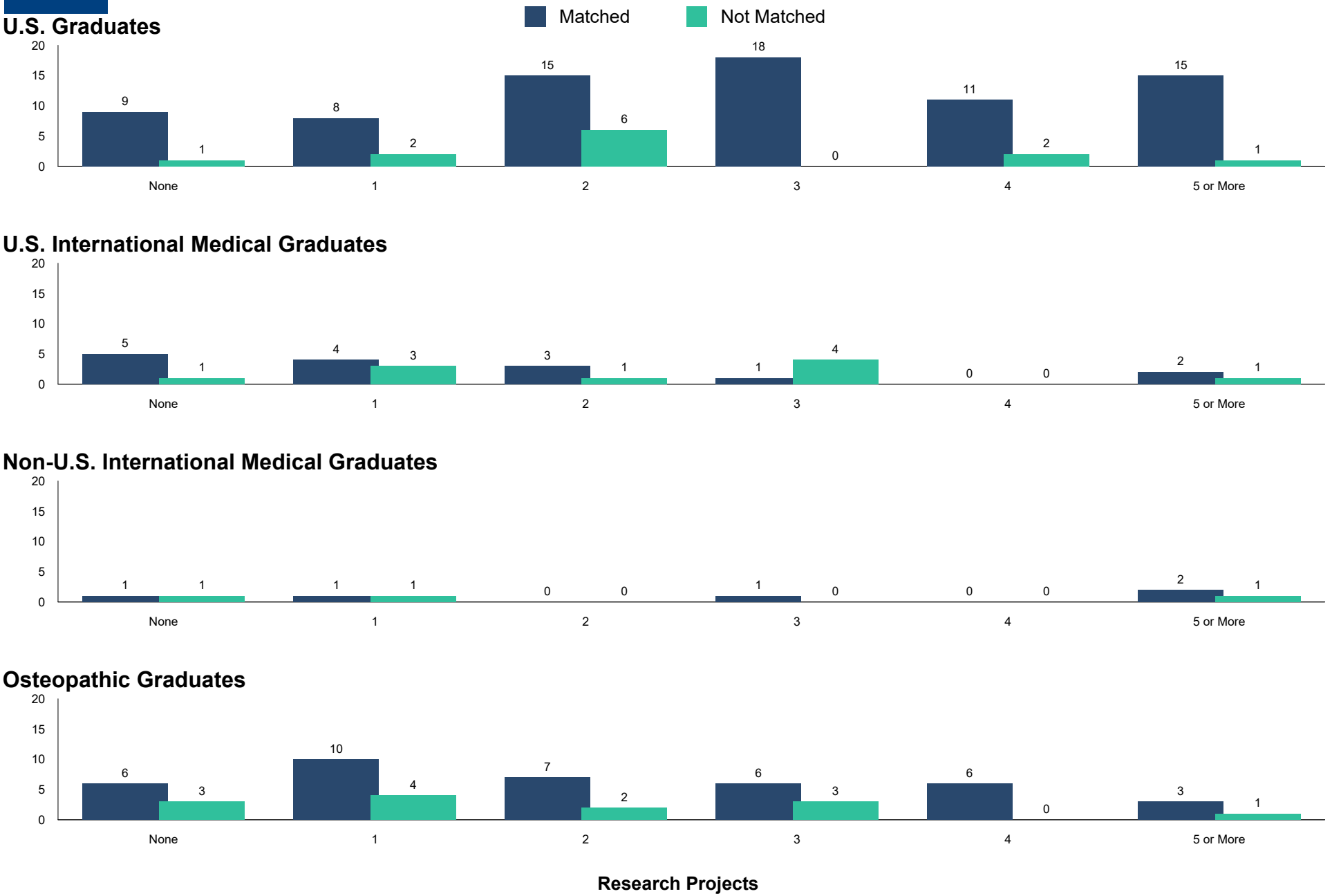

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Chart-7 Number of Abstracts, Presentations, and Publications

Sports Medicine

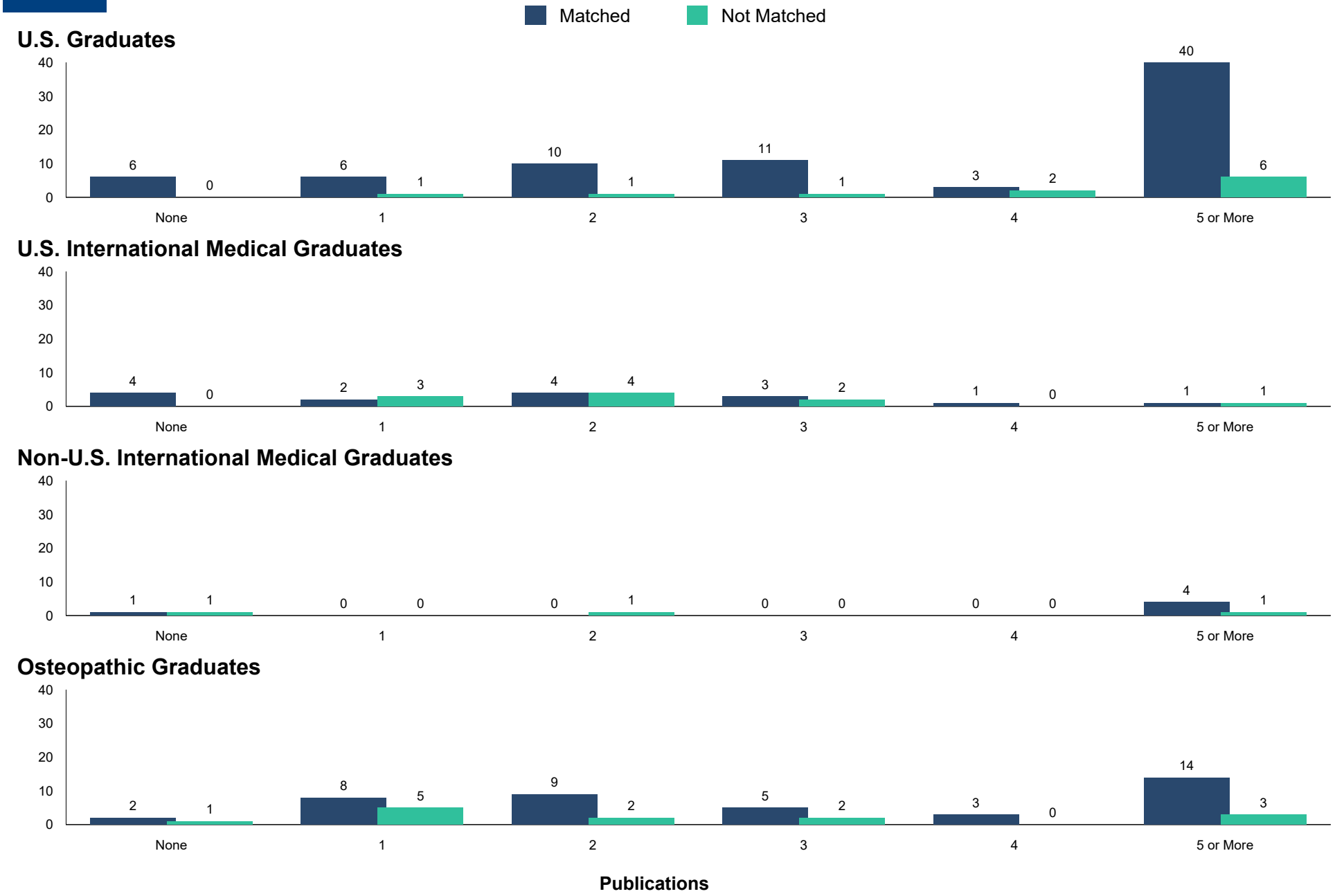

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Chart-8 Number of Work Experiences
Sports Medicine

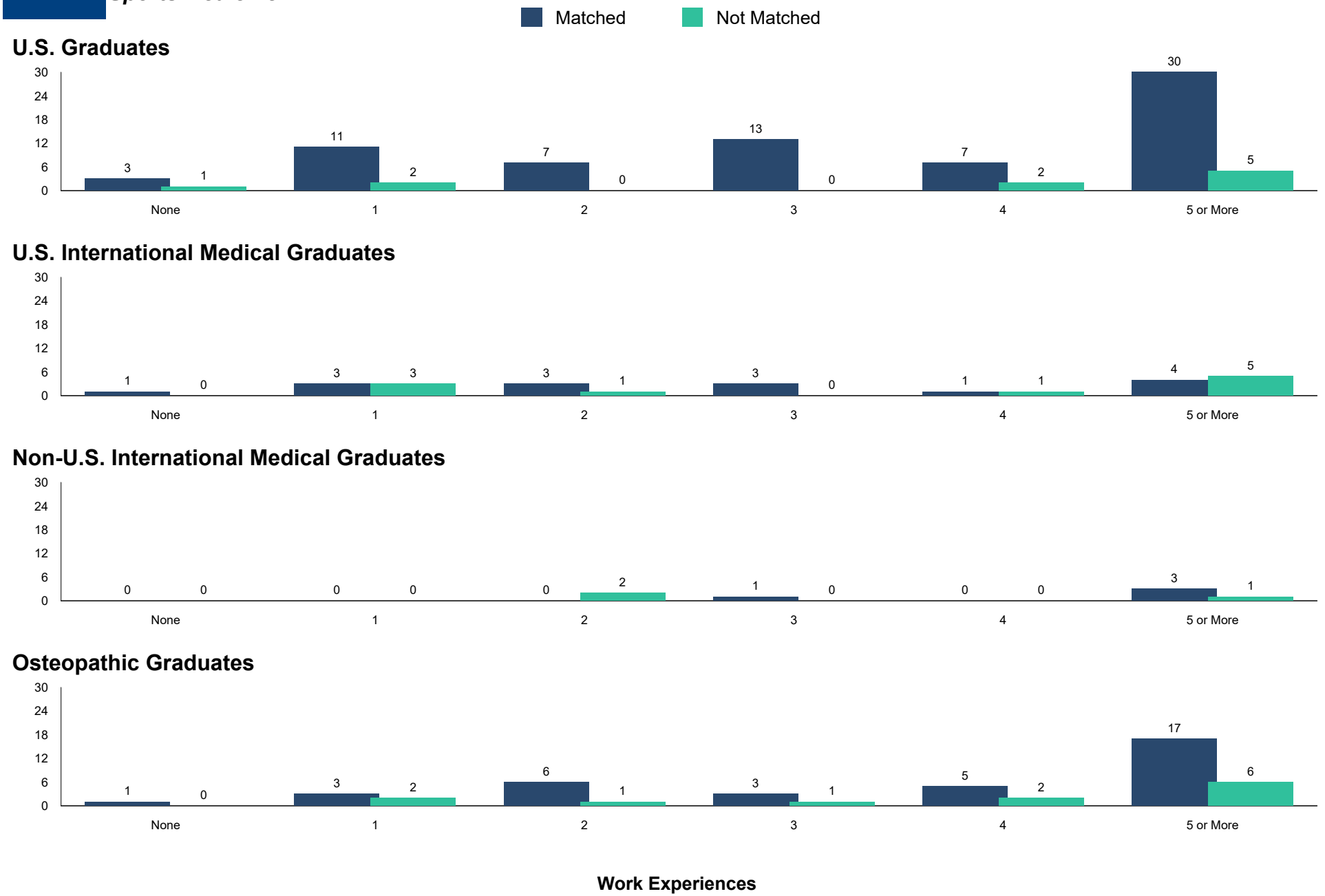

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Chart-9 Number of Volunteer Experiences

Sports Medicine

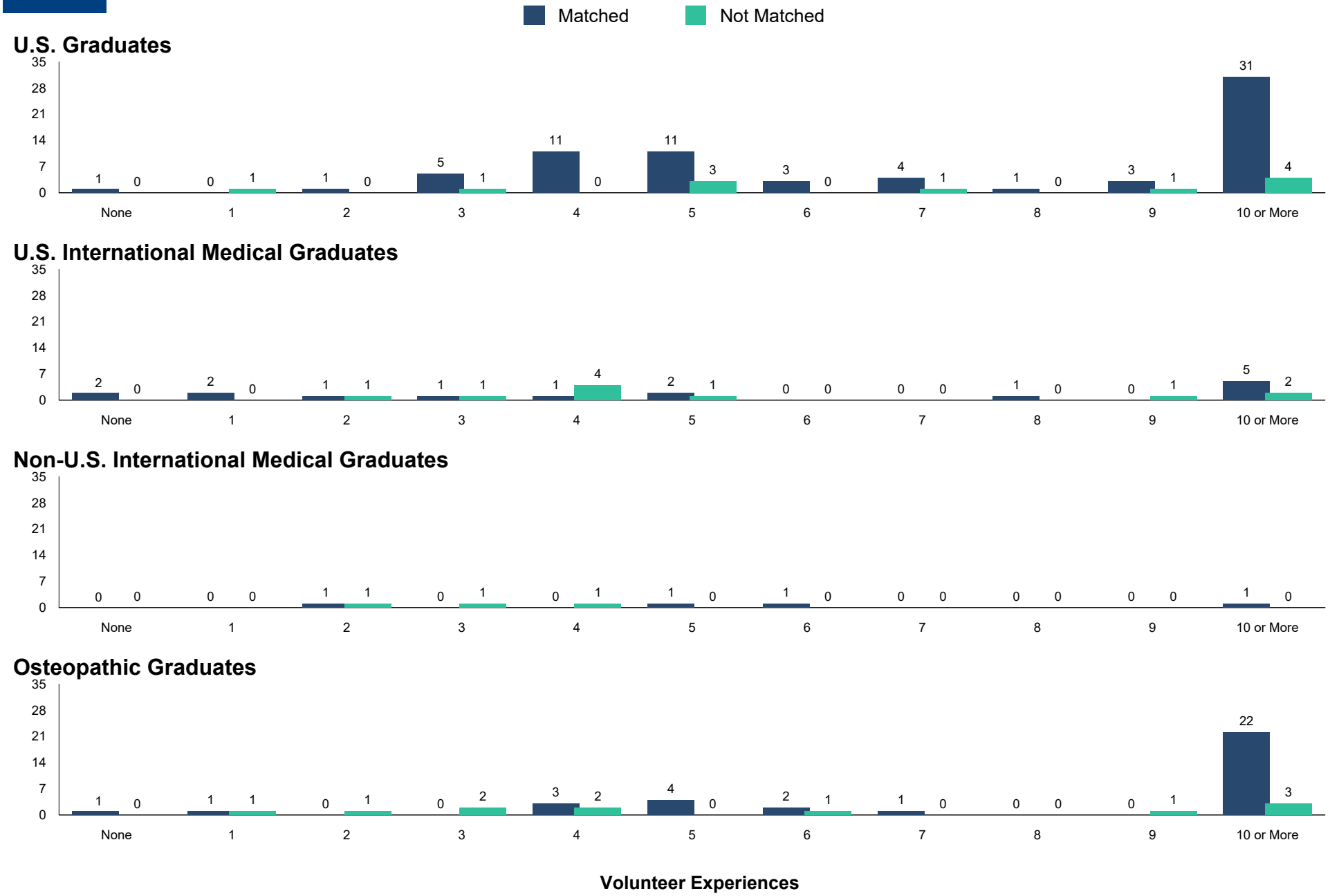

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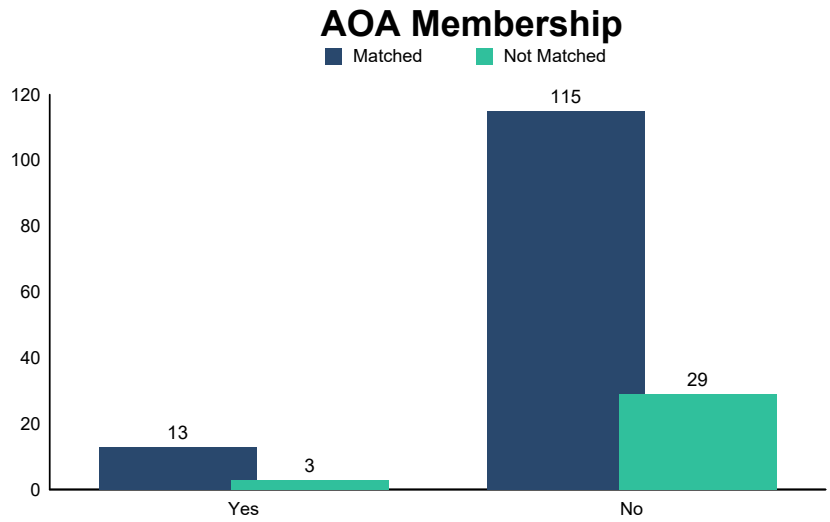
Chart-10 Percentage of U.S. Graduates Who are Members of AOA
Sports Medicine



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Surgical Critical Care

Table-1 Summary Statistics
Surgical Critical Care

Measure		U.S. Graduates		U.S.International Medical Graduates		Non-U.S. International Medical Graduates		Osteopathic Graduates	
		Matched (n=156)	Unmatched (n=3)	Matched (n=15)	Unmatched (n=2)	Matched (n=11)	Unmatched (n=5)	Matched (n=22)	Unmatched (n=1)
1.	Mean number of contiguous ranks	9.1	n/a	10.8	n/a	9.0	30.0	5.6	3.0
2.	Mean number of distinct specialties ranked	1.0	n/a	1.0	n/a	1.0	1.0	1.0	1.0
3.	Mean USMLE Step 1 score	230	n/a	231	n/a	233	214	n/a	n/a
4.	Mean USMLE Step 2 score	240	n/a	237	n/a	236	235	n/a	n/a
5.	Mean USMLE Step 3 score	222	n/a	221	n/a	218	224	n/a	n/a
6.	Mean number of research experiences	4.1	n/a	6.8	n/a	3.2	7.0	3.3	n/a
7.	Mean number of abstracts, presentations, and publications	12.8	n/a	7.5	n/a	25.7	10.0	5.2	n/a
8.	Mean number of work experiences	3.2	n/a	3.2	n/a	4.2	9.5	2.5	n/a
9.	Mean number of volunteer experiences	5.1	n/a	2.6	n/a	2.8	3.3	3.1	n/a
10.	Percentage who are AOA members	18.6	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a: The measure either does not apply to, applies to only a small percentage of, or no reliable data were available for this type of applicants.
Note: USMLE Step scores are not available for most osteopathic medical school graduates.
Source: NRMP Data Warehouse

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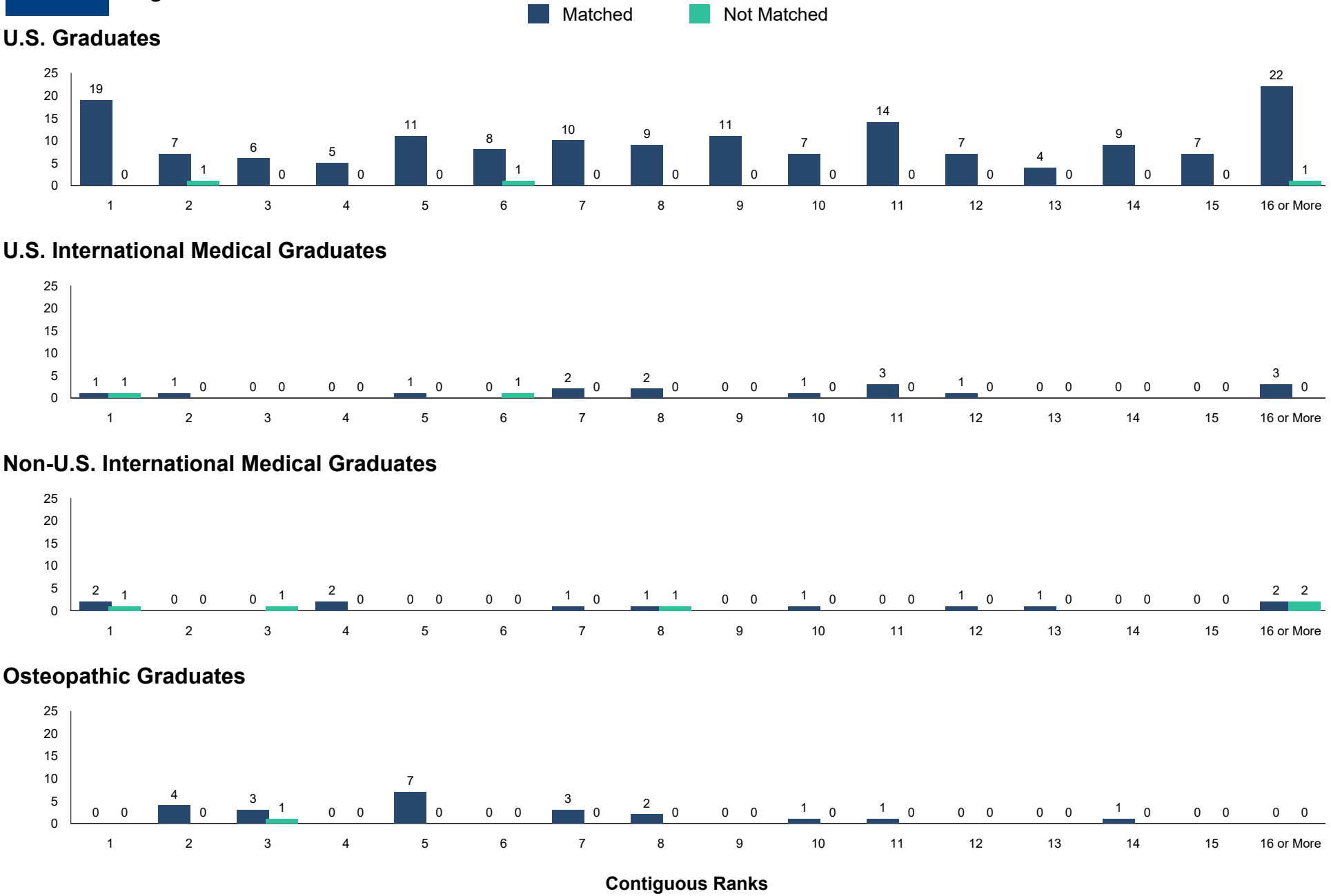
Chart-1 Number of Contiguous Ranks Within Preferred Specialty

Surgical Critical Care



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Graph-1 Probability of Matching to Preferred Specialty by Number of Contiguous Ranks

Surgical Critical Care

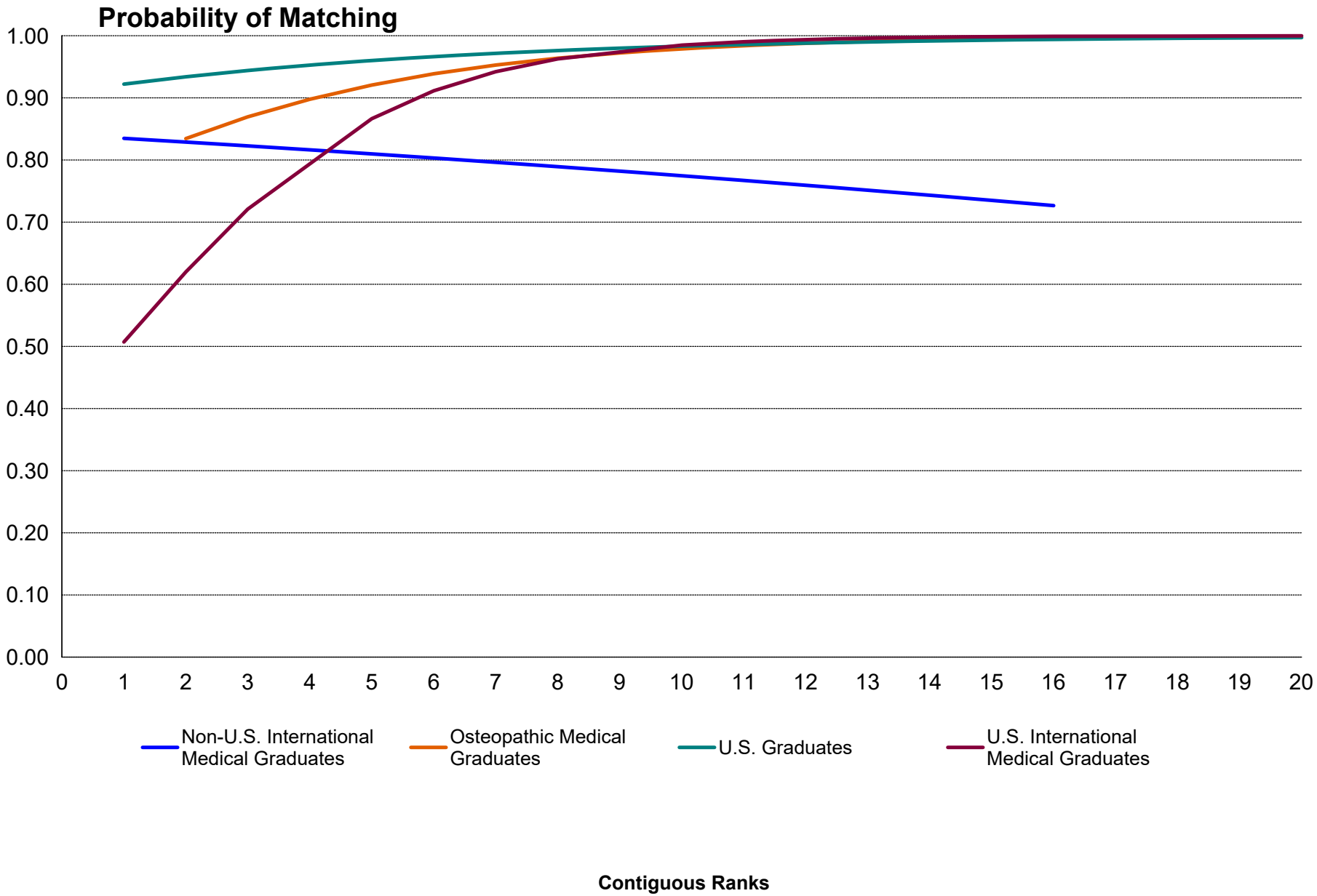

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Chart-2 Number of Distinct Specialties Ranked

Surgical Critical Care

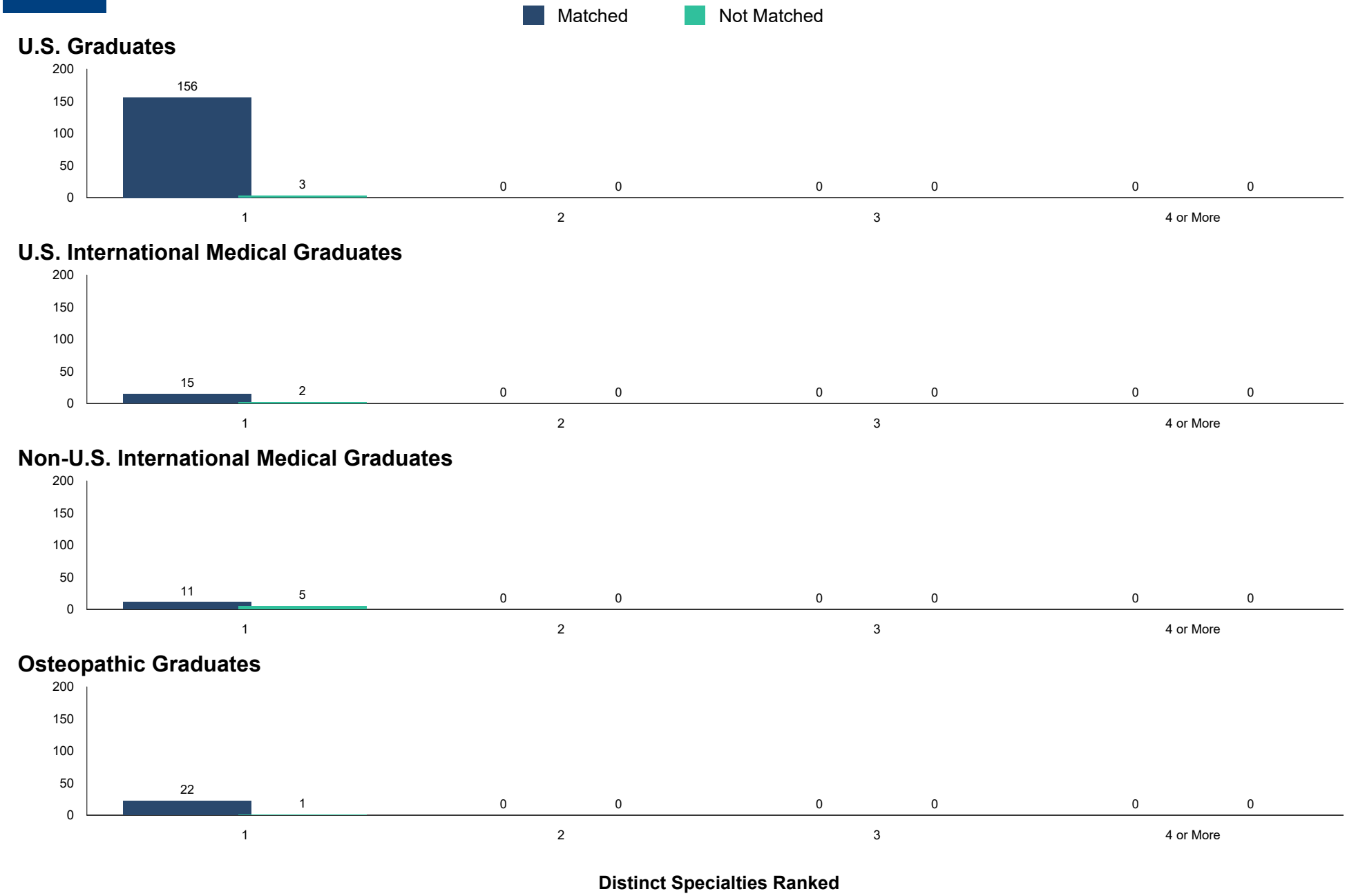

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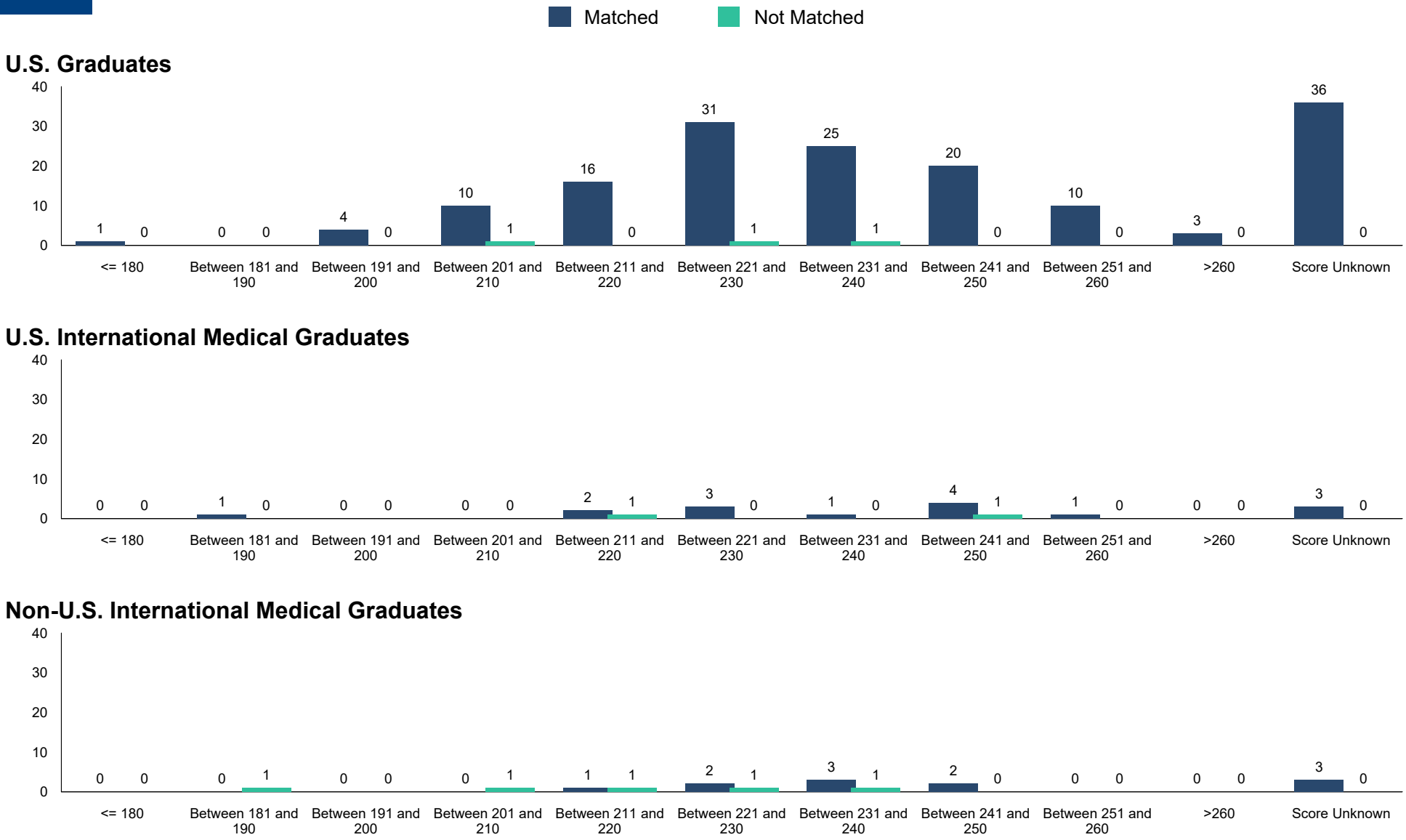
Chart-3 USMLE Step 1 Scores

Surgical Critical Care



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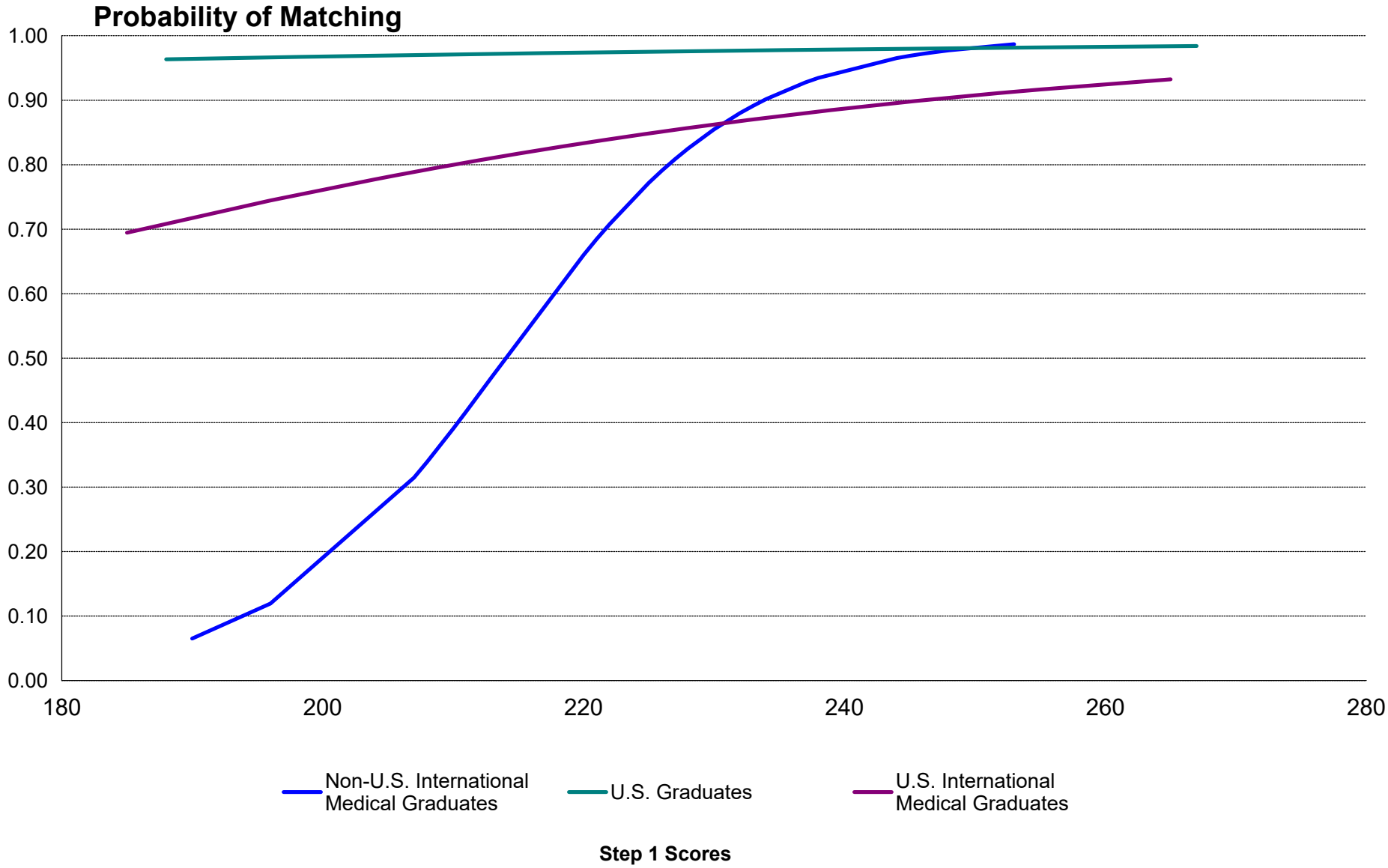
Graph-2 Probability of Matching to Preferred Specialty by USMLE Step 1 Score

Surgical Critical Care



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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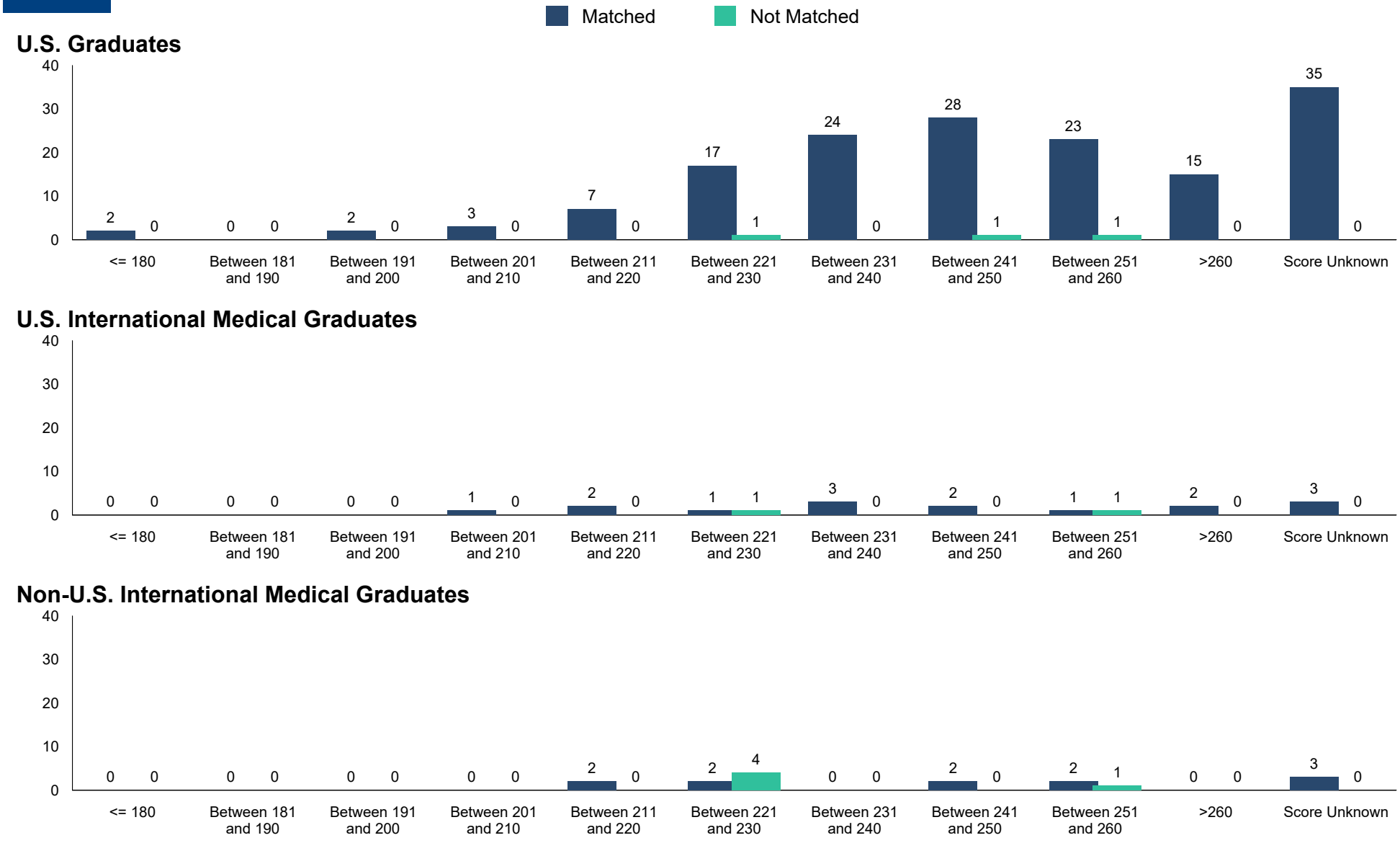
Chart-4 USMLE Step 2 Scores

Surgical Critical Care



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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Graph-3 Probability of Matching to Preferred Specialty by USMLE Step 2 Score

Surgical Critical Care

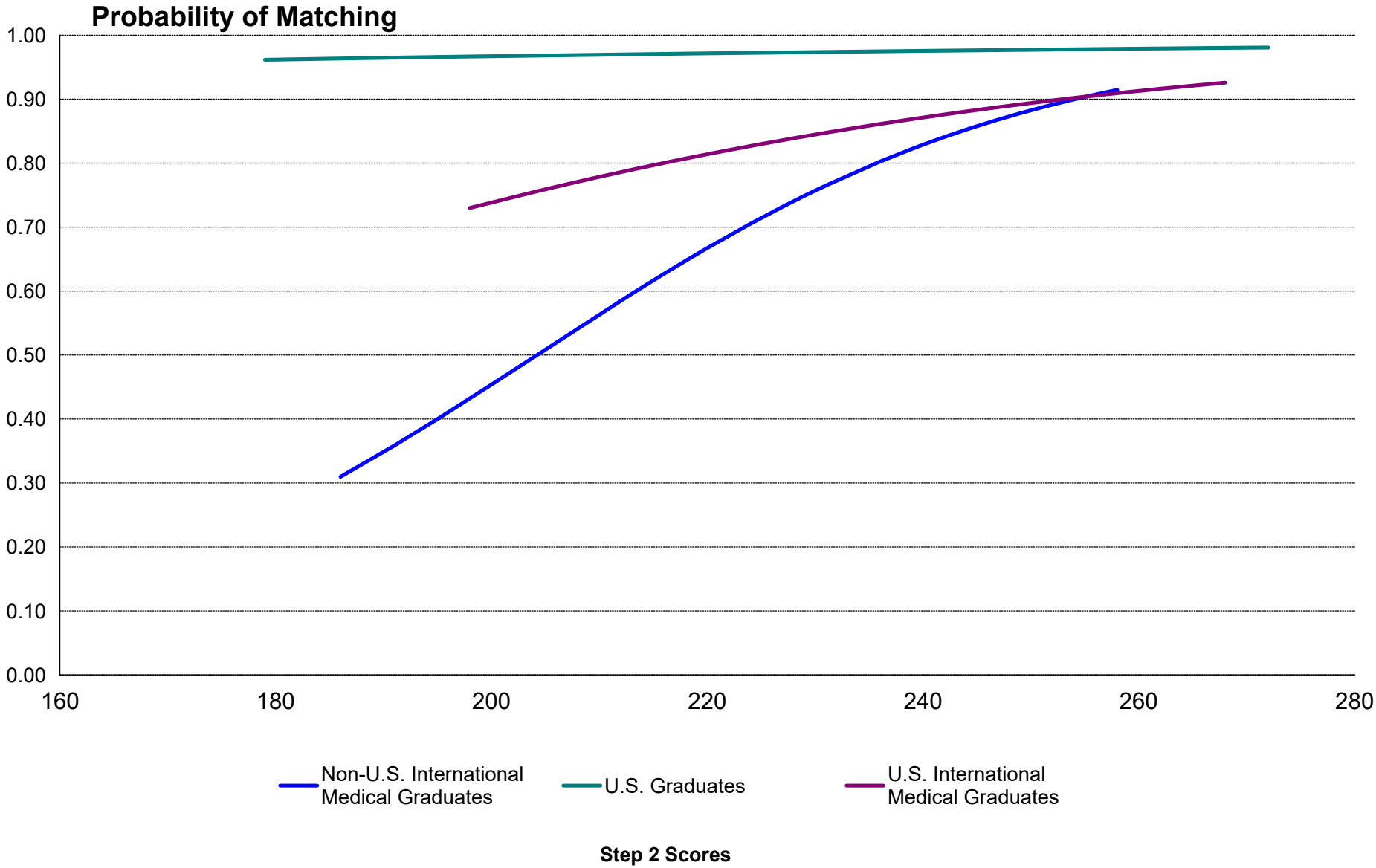

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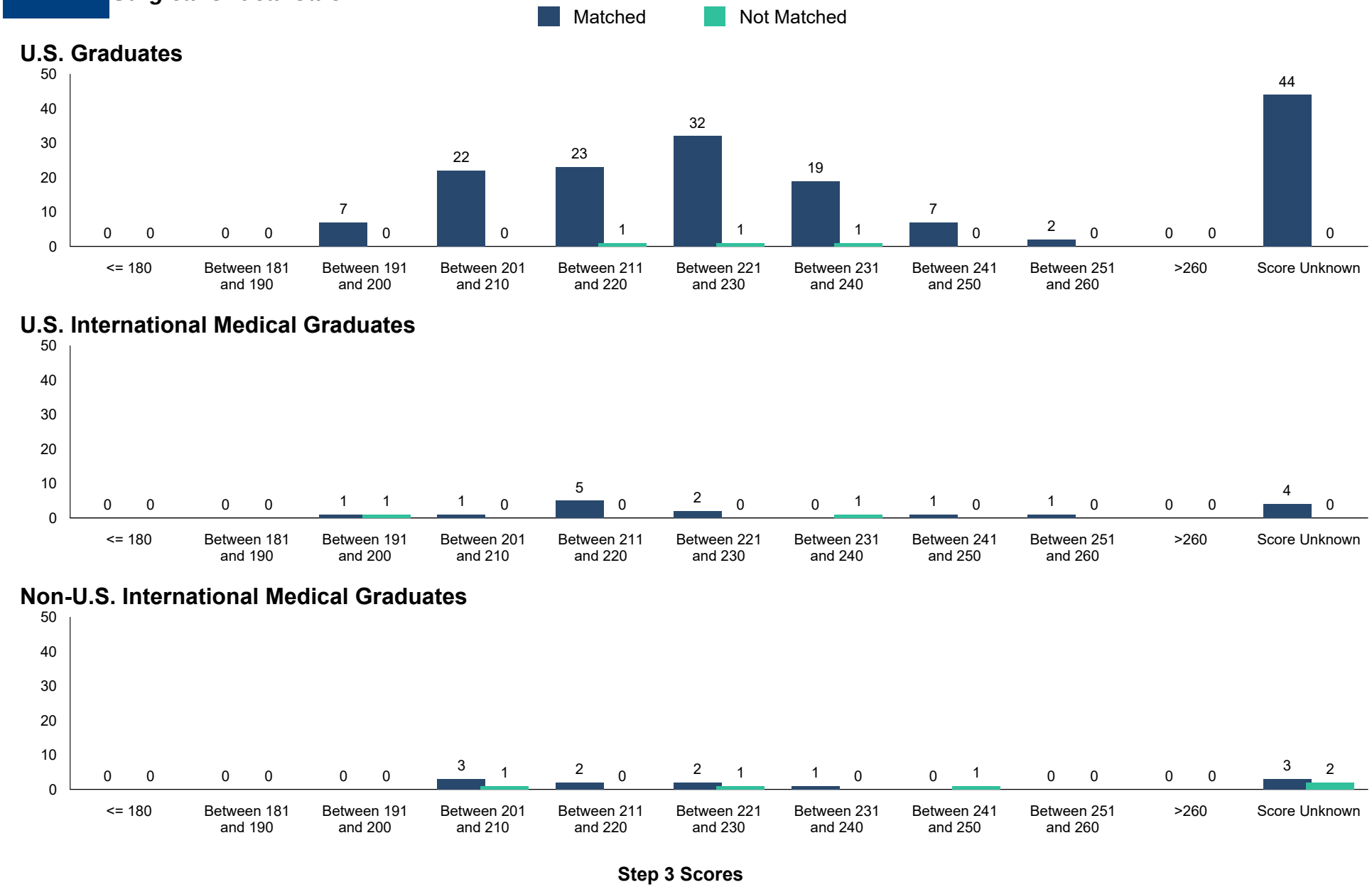
Chart-5 USMLE Step 3 Scores
Surgical Critical Care



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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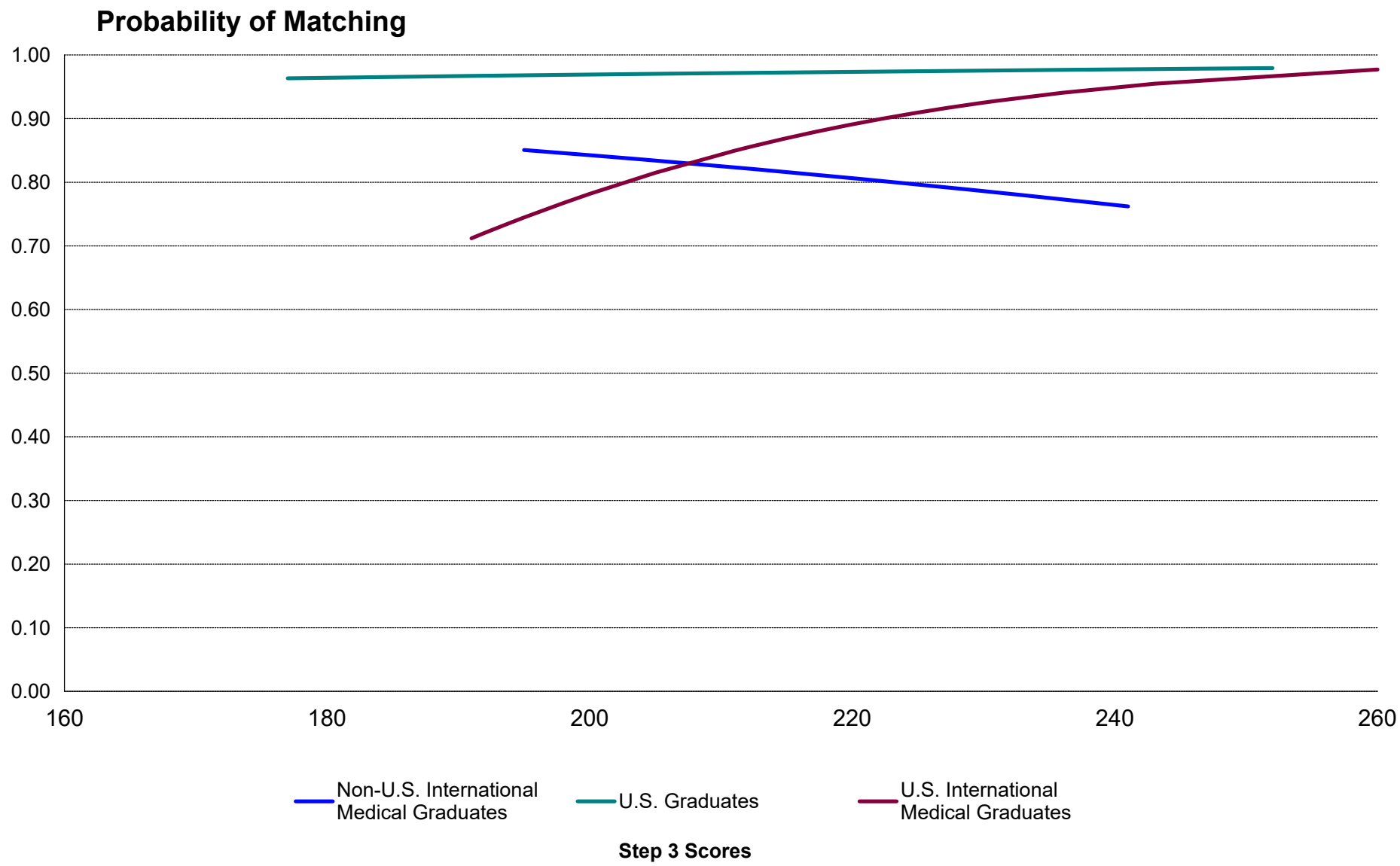
Graph-4 Probability of Matching to Preferred Specialty by USMLE Step 3 Score

Surgical Critical Care



Note: USMLE Step scores are not available for most osteopathic medical school graduates.

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

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Chart-6 Number of Research Projects

Surgical Critical Care

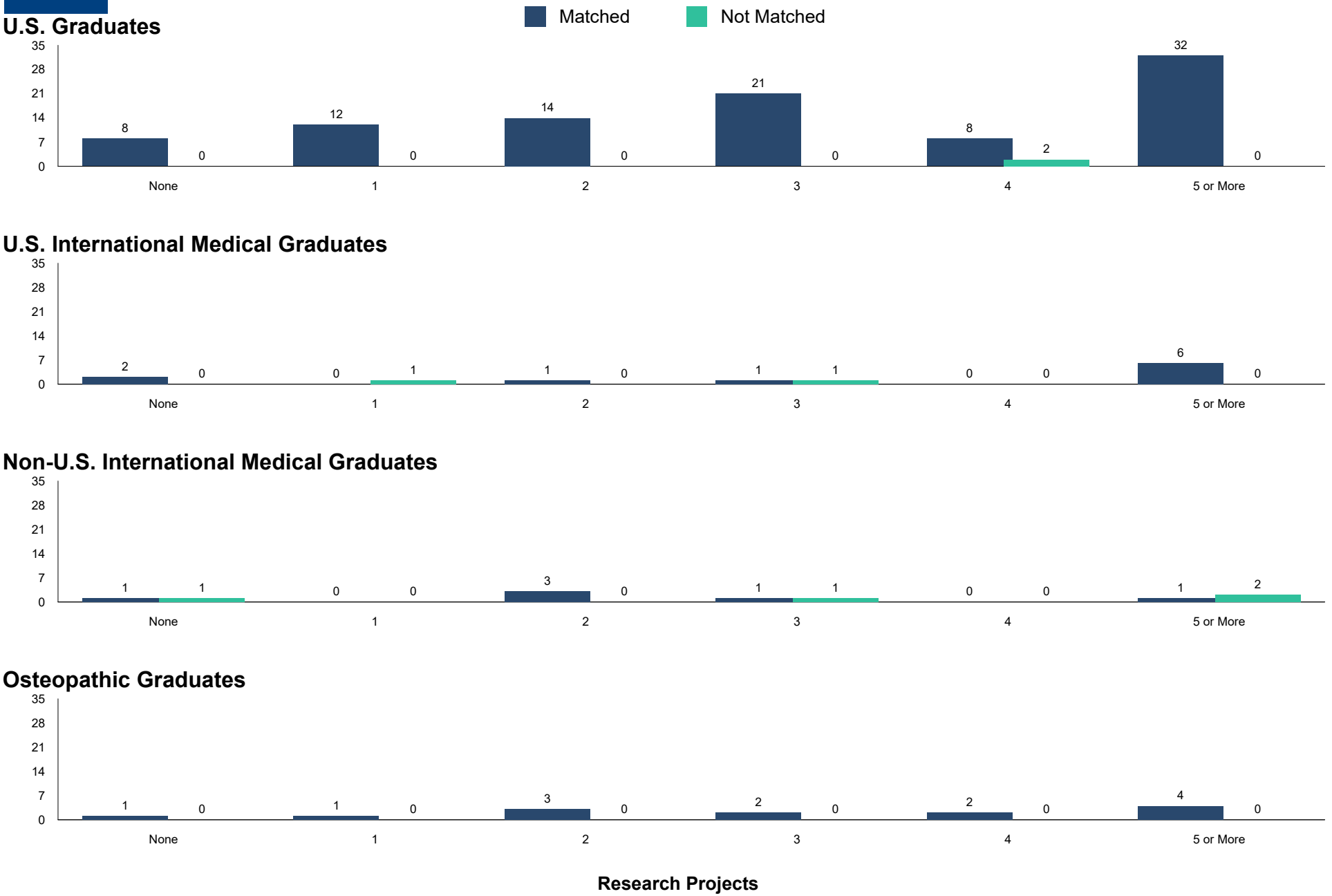

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Chart-7 Number of Abstracts, Presentations, and Publications

Surgical Critical Care

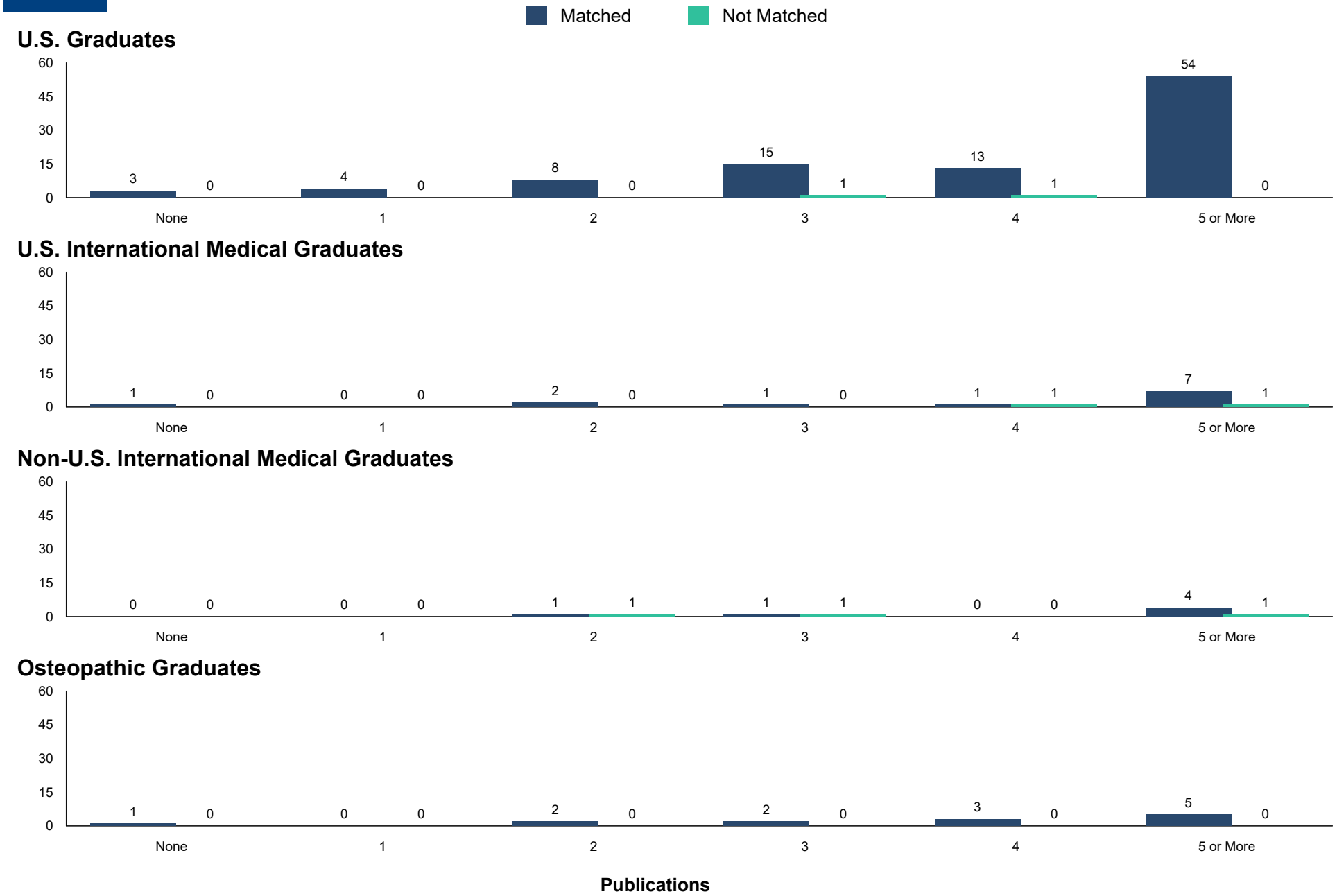

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Chart-8 Number of Work Experiences

Surgical Critical Care

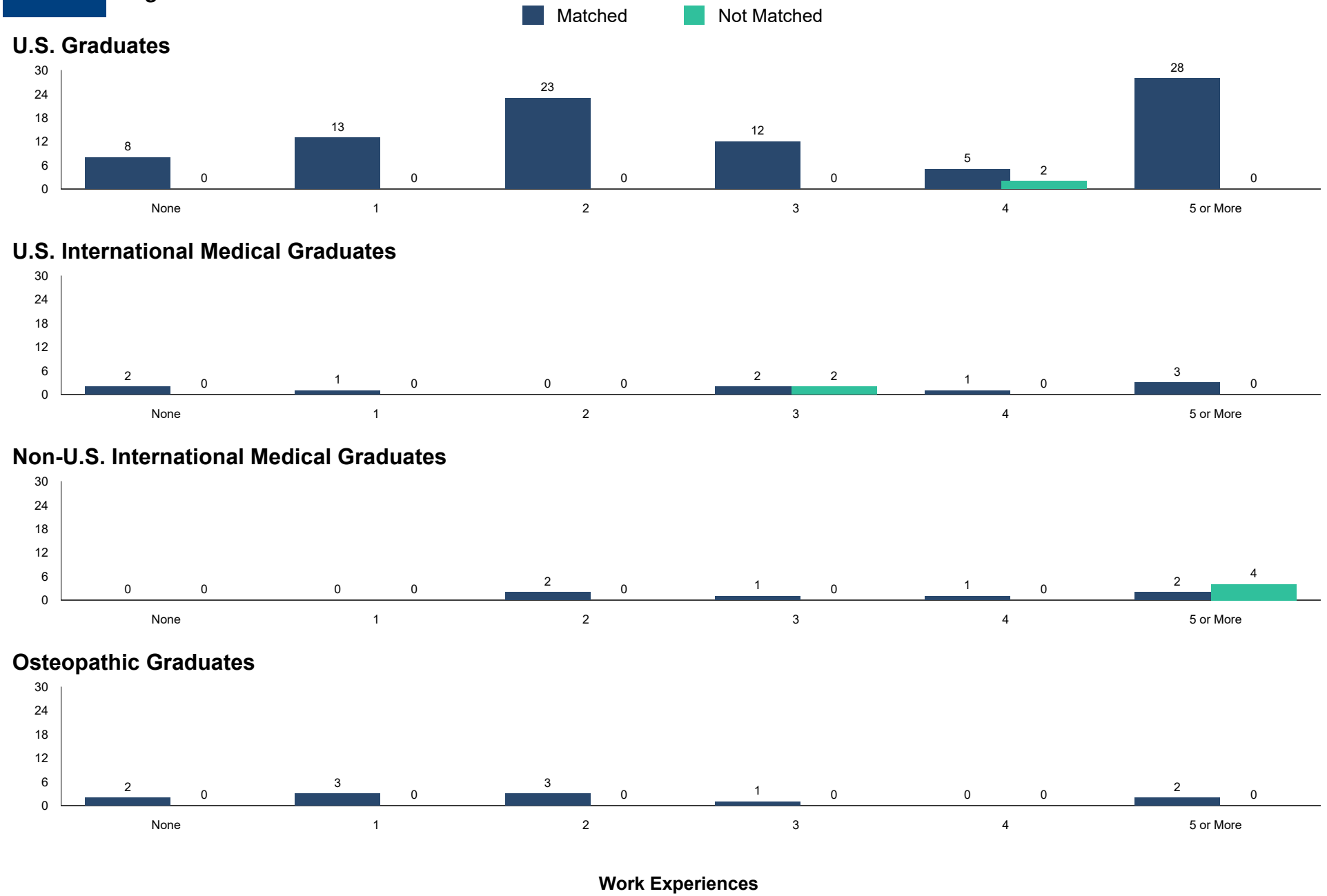

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Chart-9 Number of Volunteer Experiences

Surgical Critical Care

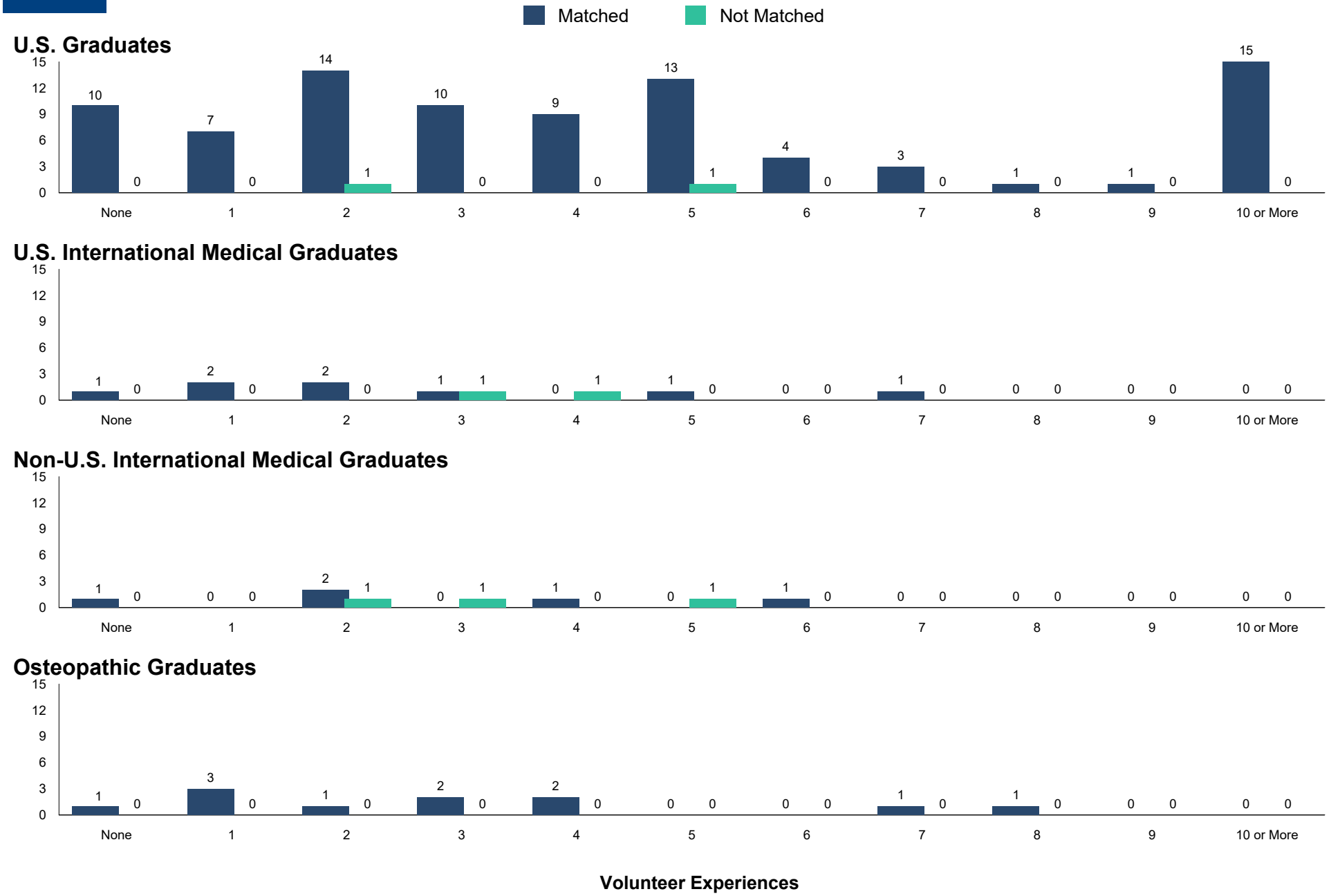

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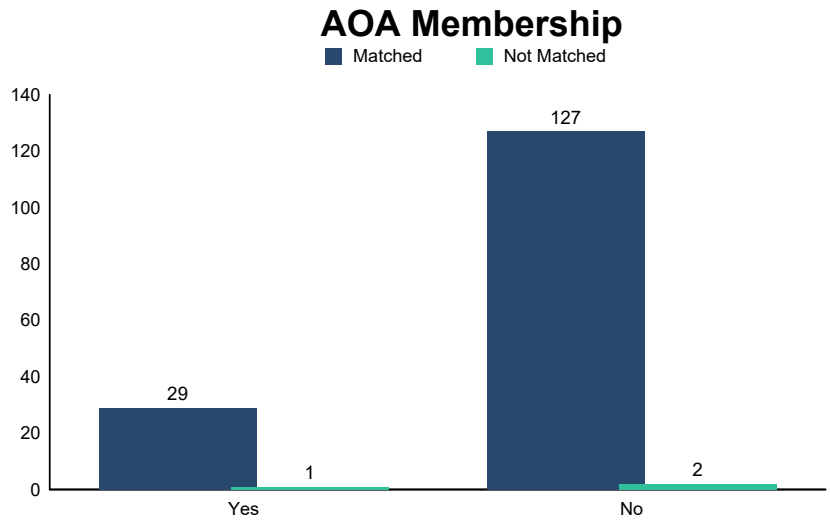
Chart-10 Percentage of U.S. Graduates Who are Members of AOA

Surgical Critical Care



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