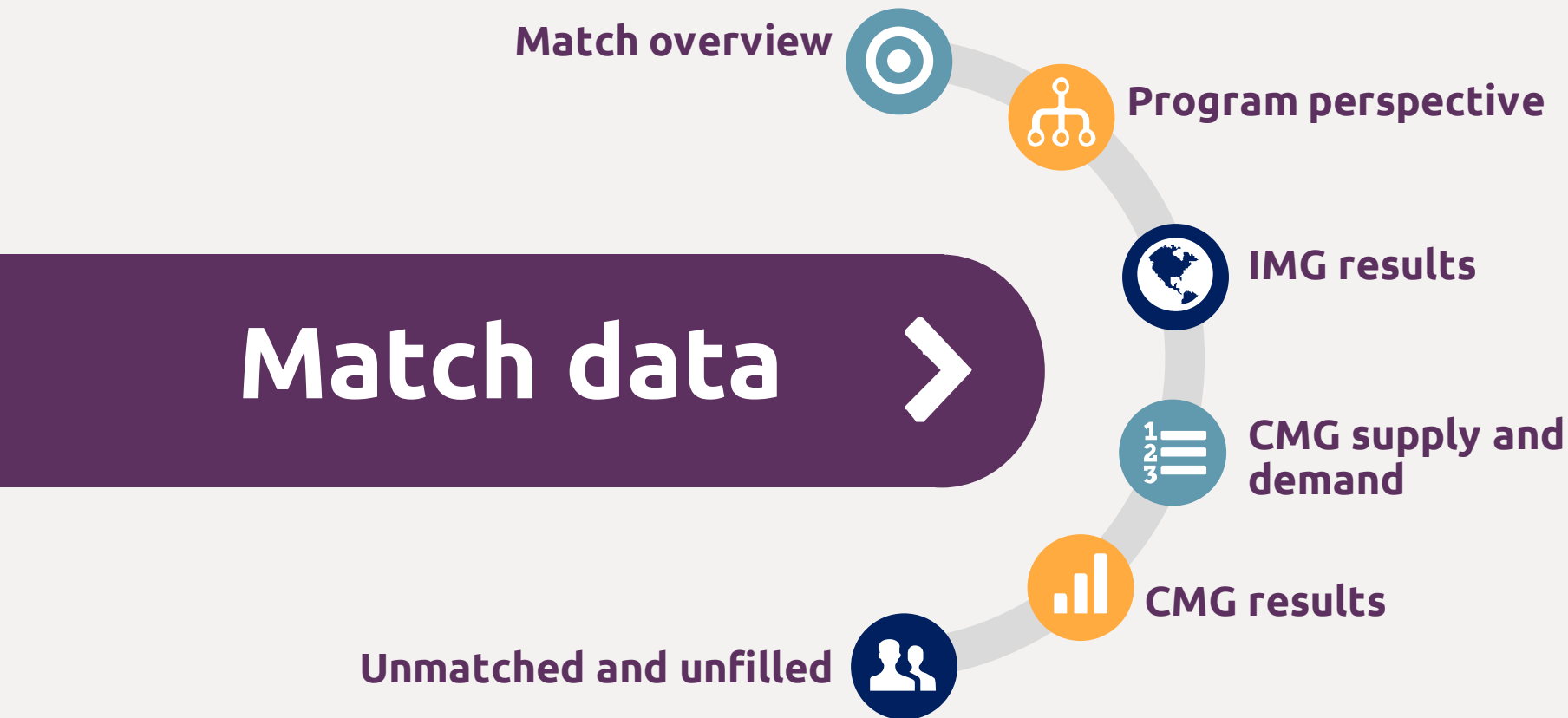


CaRMS Forum

April 29, 2018





Key themes



Ratio for CMGs continues to tighten



Programs continue to experience heavier volumes



Shifting alignment between applicant interest and quota distribution



Multi-year CMG match rate continues to be above 99%

Match overview

Applicant pool breakdown 2018

First and second iterations combined

Applicant type	Registrants	Inactive/withdrawn applicants	Active applicants	ROL not submitted	Final participants*
CMG	3,021	31	2,990	10	2,980
USMG	69	10	59	18	41
IMG	2,475	206	2,269	511	1,758

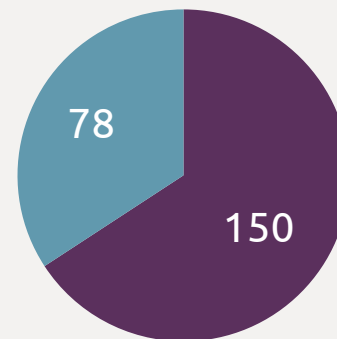
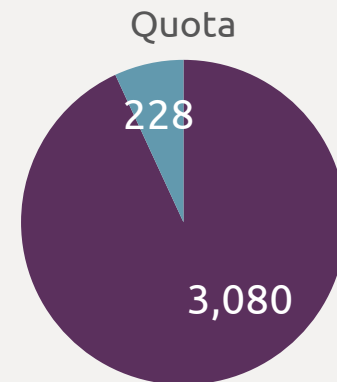
*Final participants: submitted a rank order list.

Does not double count if an applicant participates in first and second iterations.

2018 R-1 match national highlights

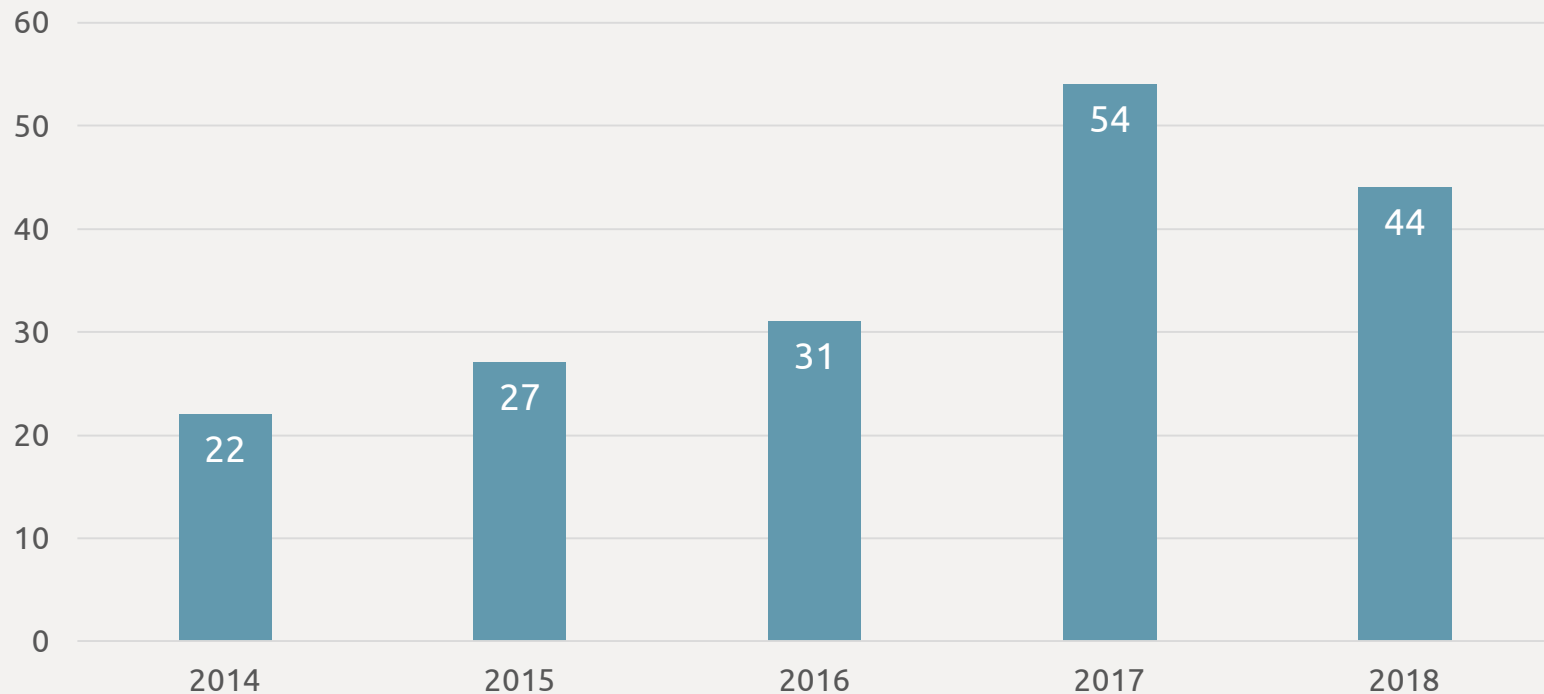
First iteration						
Applicant type	Current year			Prior year		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
CMG	2,649	93.0	198	52	64.8	24
USMG	24	70.6	10	0	0.0	3
IMG	117	46.4	135	238	18.6	1,041

Second iteration							
Applicant type	Current year			Prior year			
	Matched	% Matched	Unmatched	Matched	Matched with prior PG training	% Matched	Unmatched
CMG	83	54.6	69	11	13	30.8	54
USMG	0	0.0	2	0	0	0.0	2
IMG	6	7.9	70	36	1	4.4	806



■ Filled ■ Unfilled

Previously unmatched CMGs returning as current year graduates



2018 R-1 match regional highlights (applicant view)

First iteration

Region	Current year			Prior year		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
Western	747	93.6	51	9	56.3	7
Ontario	925	92.6	74	14	70.0	6
Quebec	802	92.5	65	25	71.4	10
Eastern	175	95.6	8	4	80.0	1

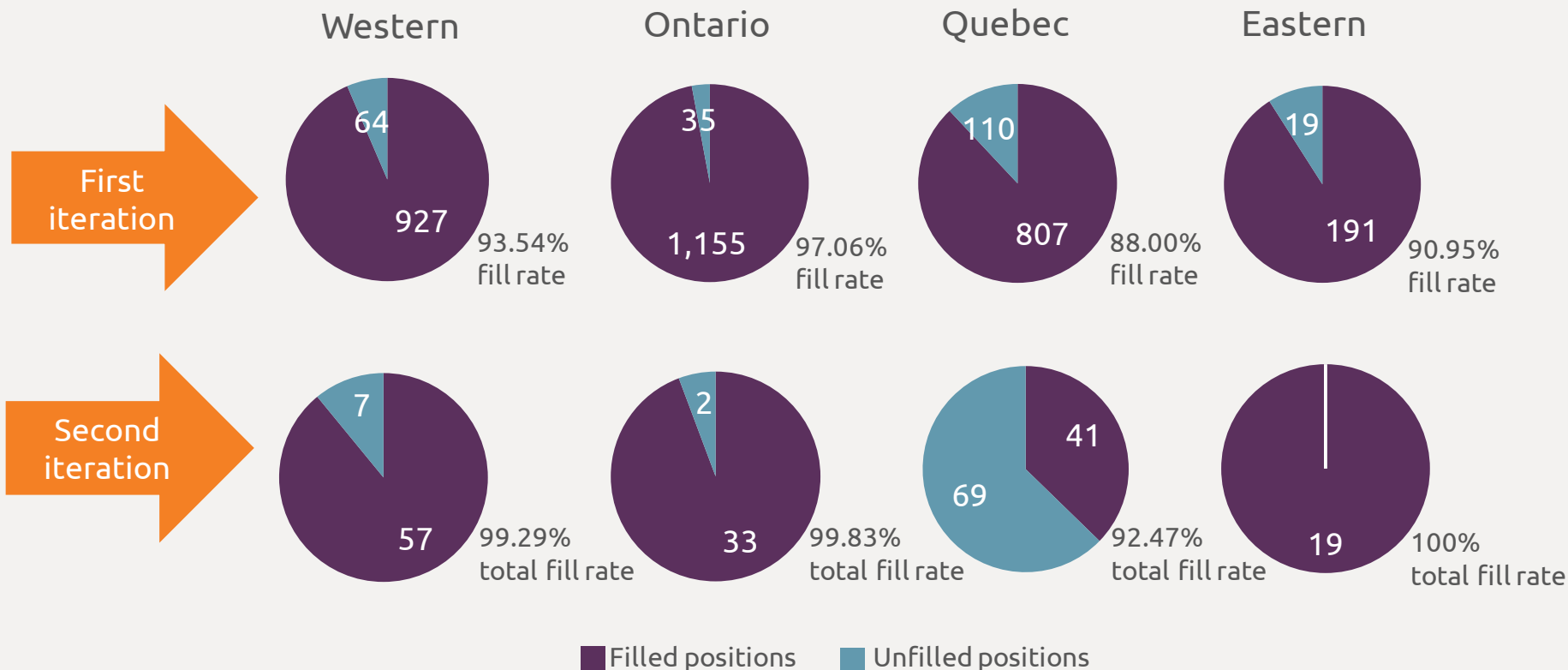
Second iteration

Region	Current year			Prior year		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
Western	20	47.6	22	7	25.9	20
Ontario	31	49.2	32	8	27.6	21
Quebec	29	70.7	12	8	57.1	6
Eastern	3	50.0	3	1	12.5	7

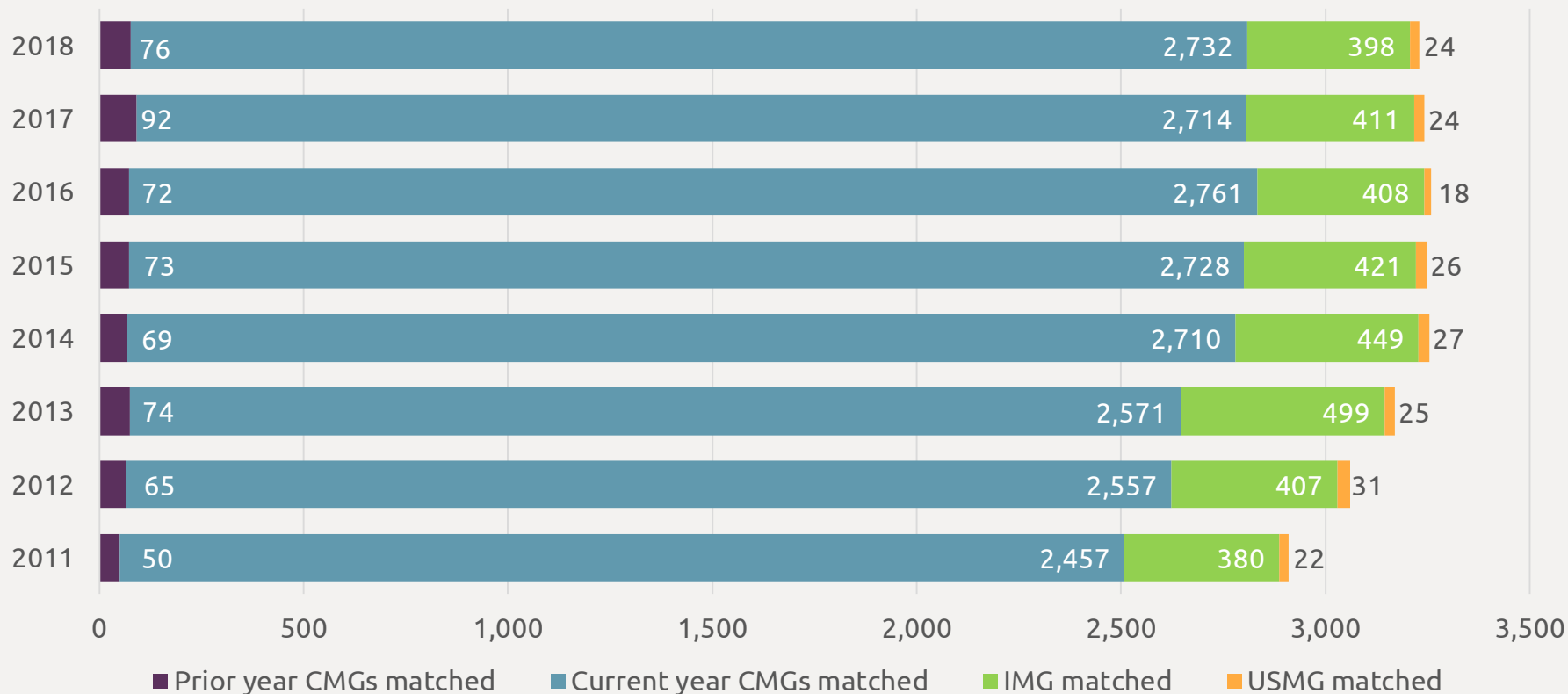
% Unmatched
current year CMGs
after second
iteration

National: 2.4%
Western: 2.8%
Ontario: 3.2%
Quebec: 1.4%
Eastern: 1.6%

2018 R-1 match highlights by region (program quota view)

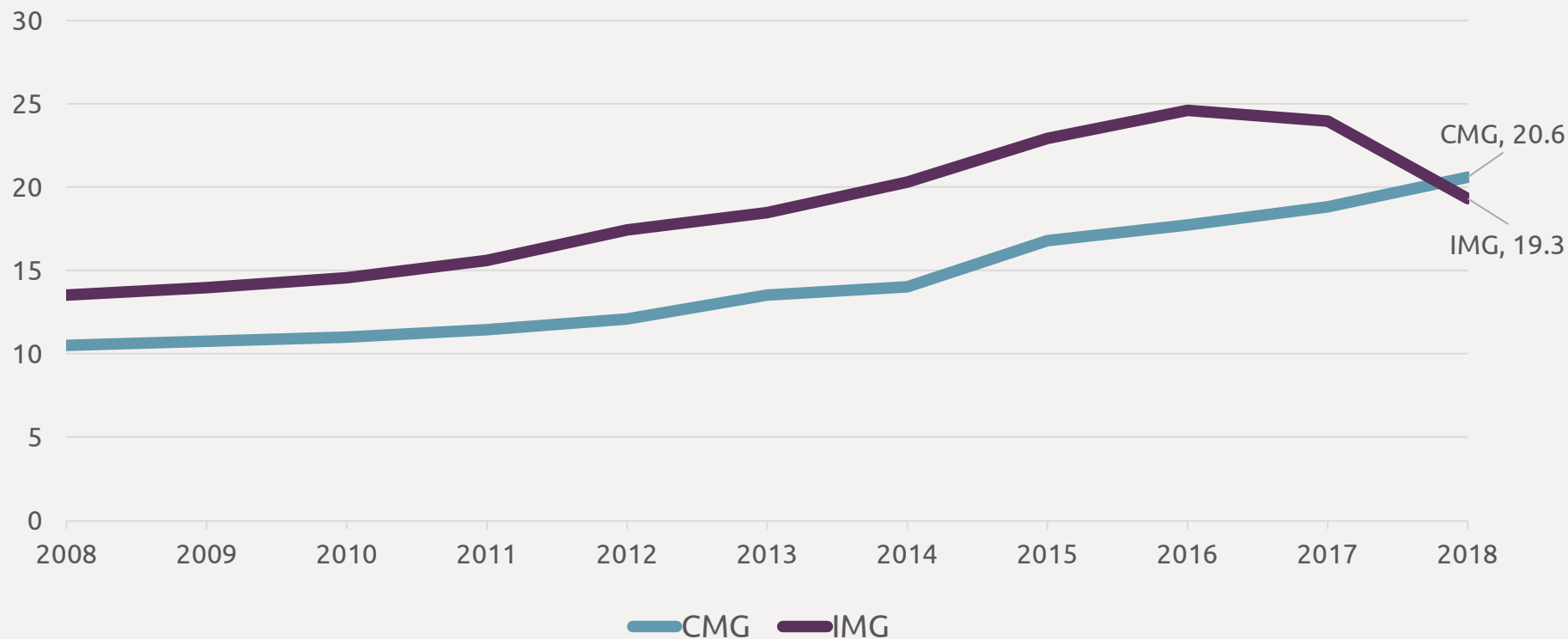


Who entered postgraduate training in Canada

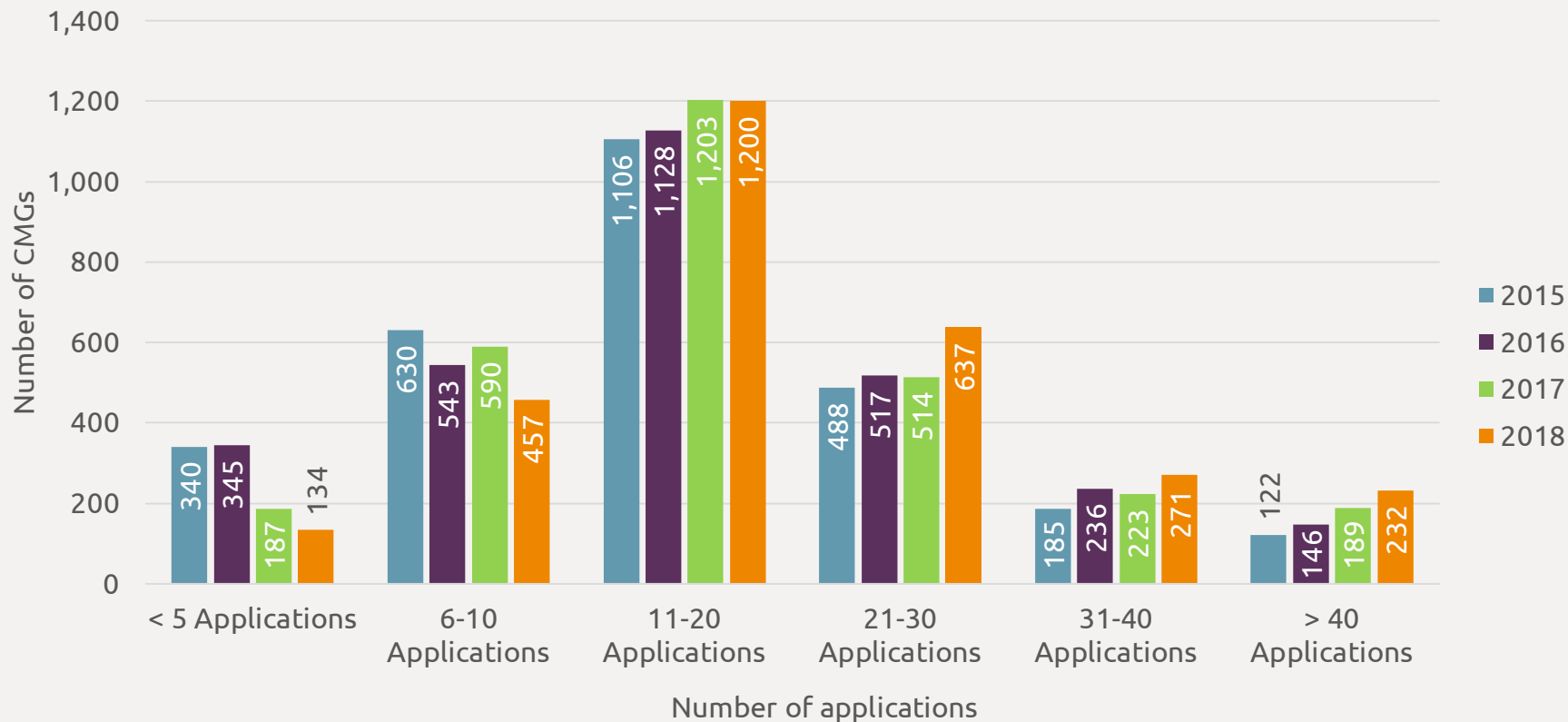


Program perspective

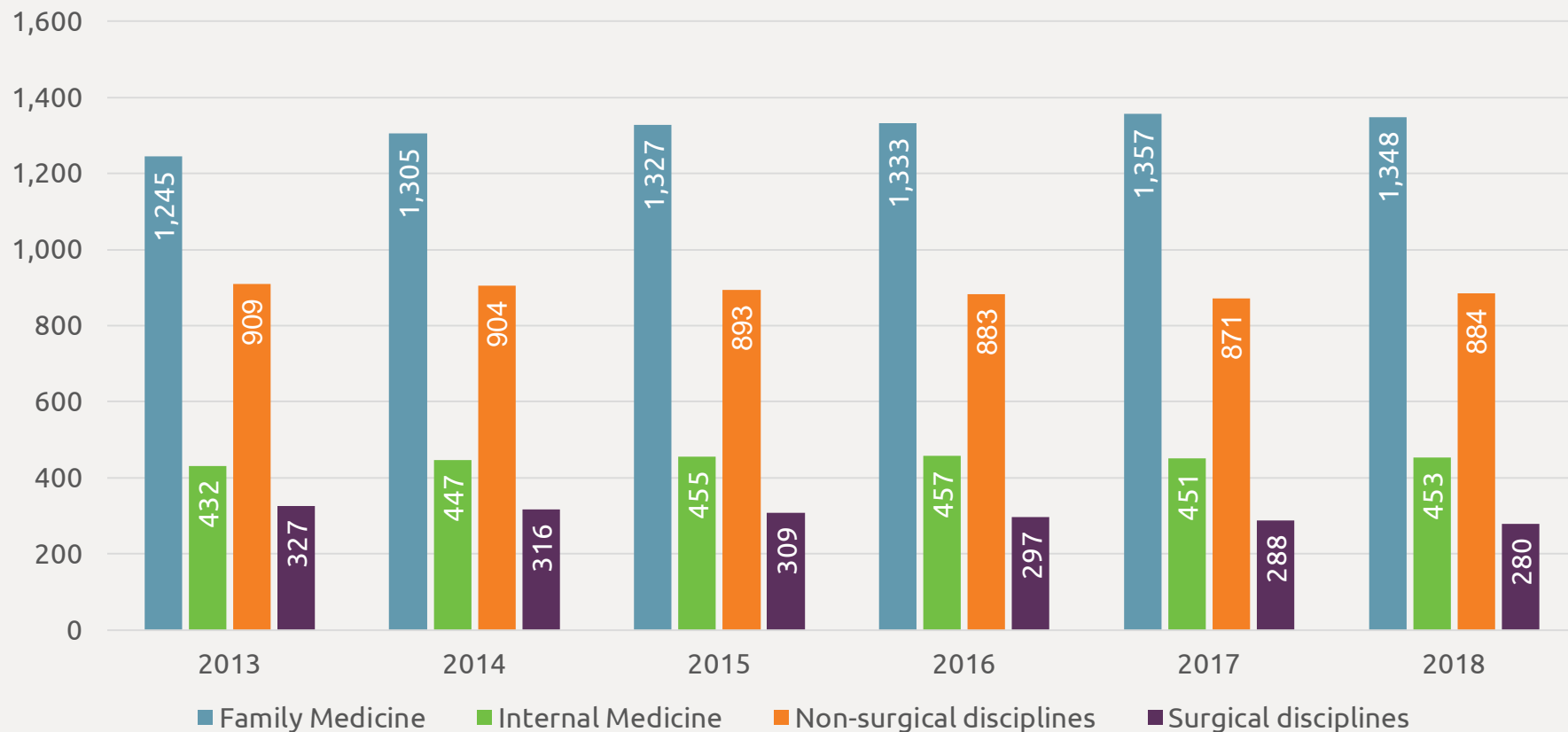
Average number of program applications by CMG and IMG applicants in the first iteration



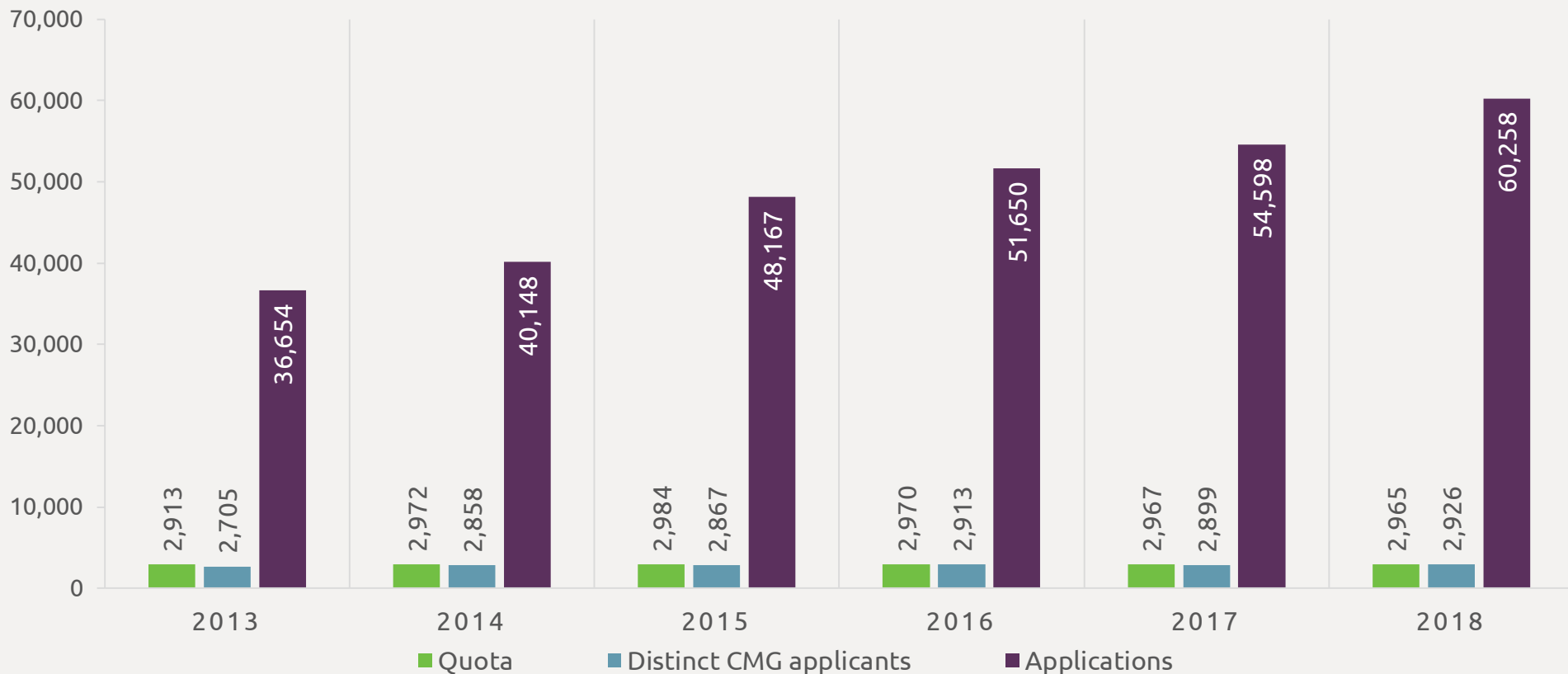
Number of applications submitted by CMGs



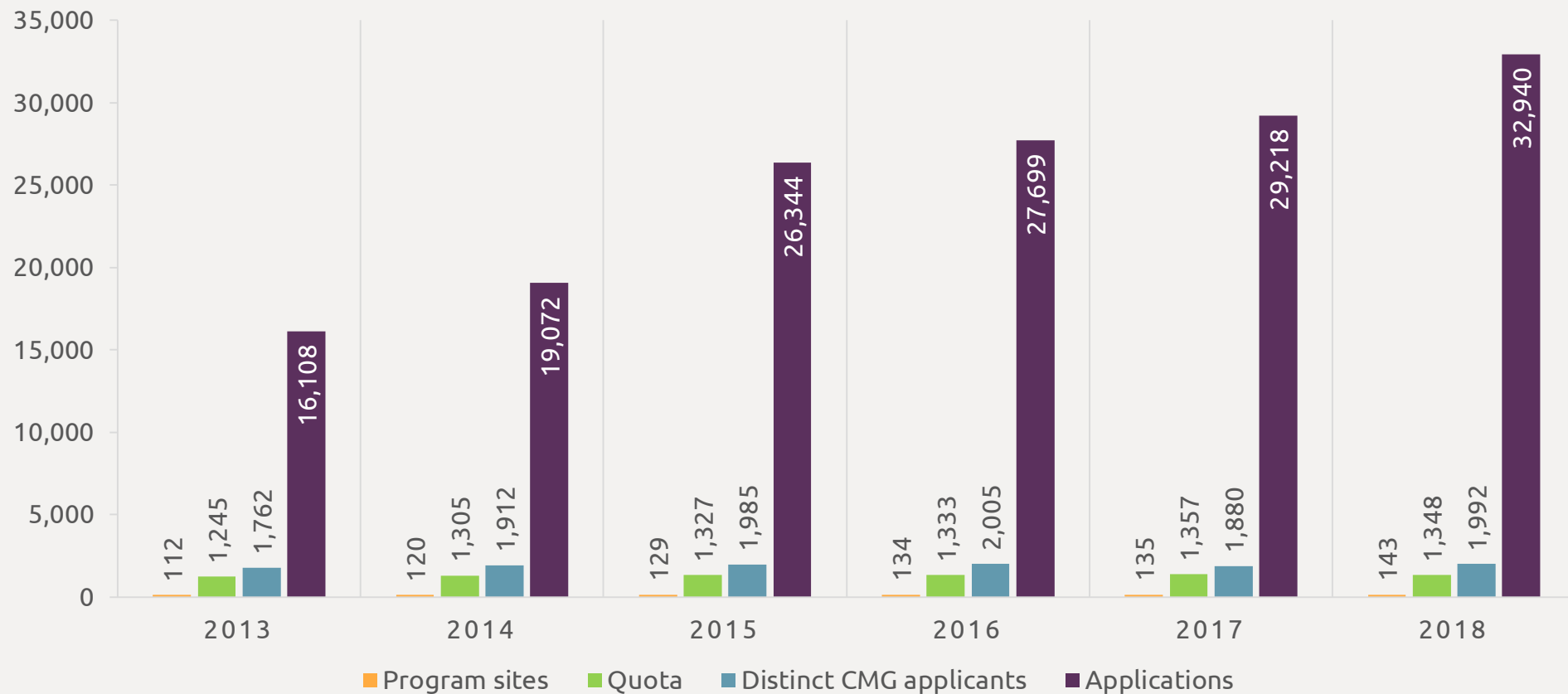
Positions offered for CMGs, by discipline group



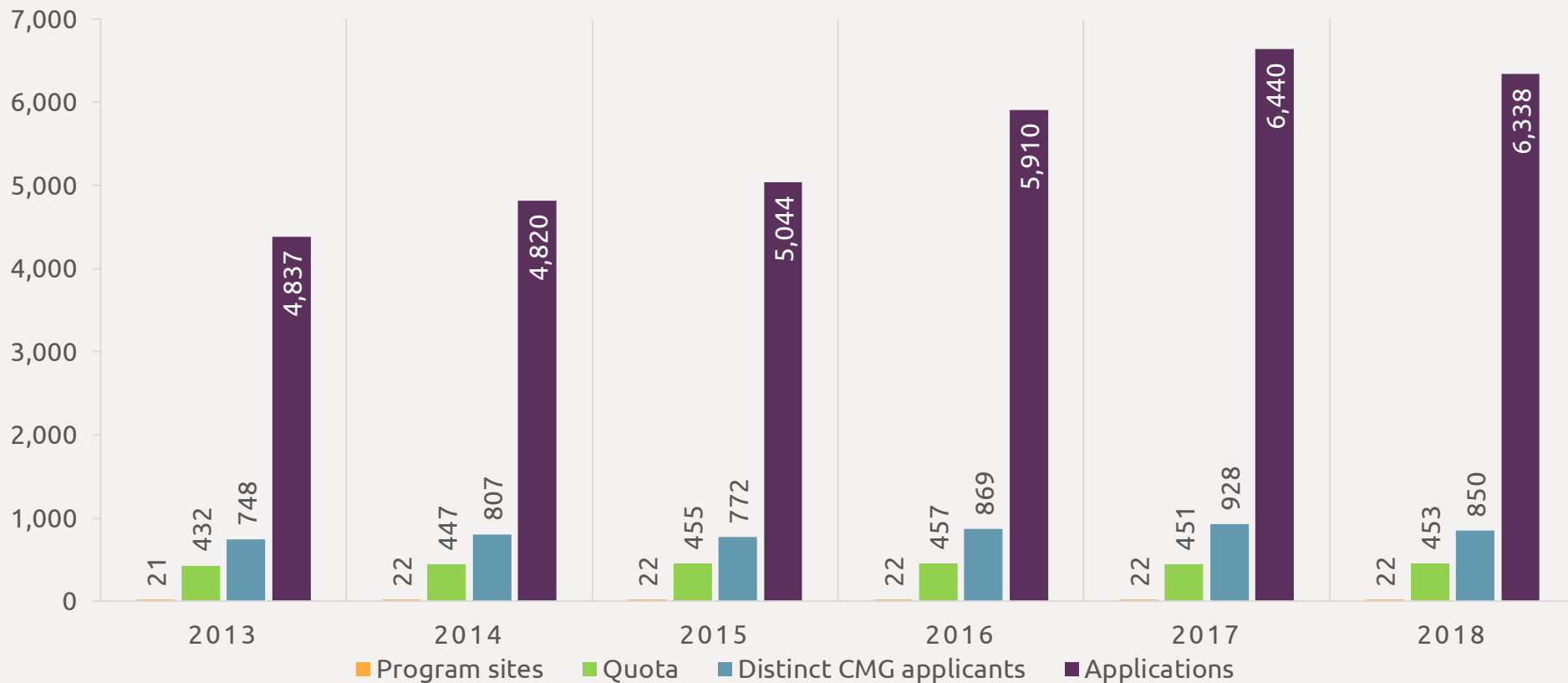
Program applications: all disciplines combined



Program applications: Family Medicine

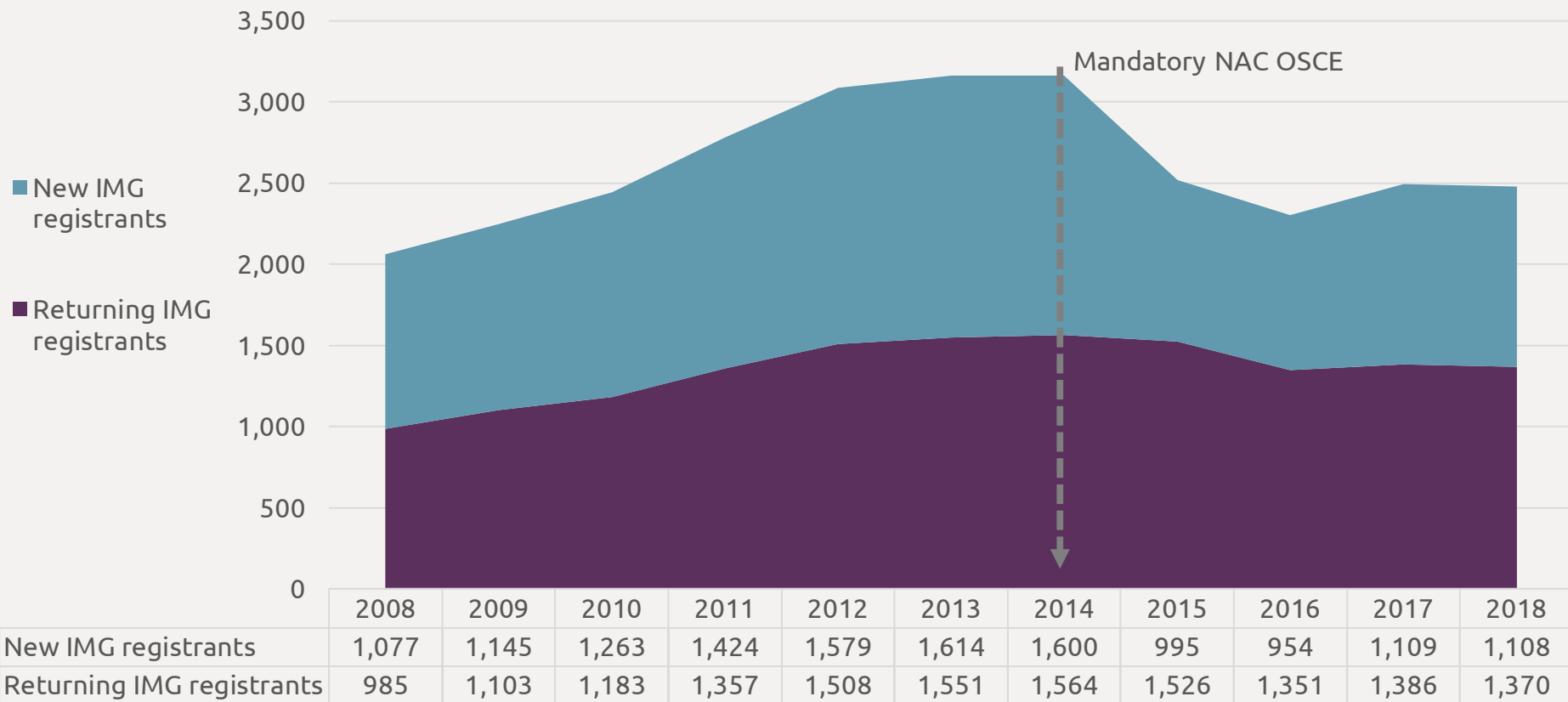


Program applications: Internal Medicine

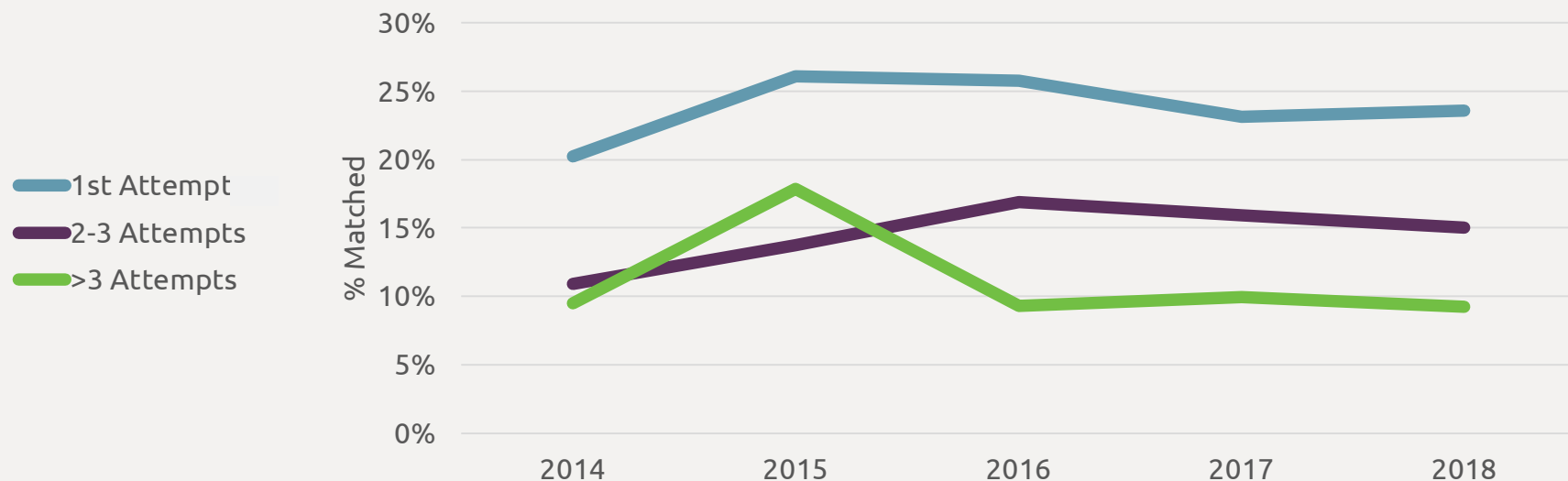


IMG results

IMG registrants



IMG match rates based on years of participation



1st attempt	Active IMGs	1,437	816	838	930	1,005
	Active IMGs matched	291	213	216	215	237
2-3 attempts	Active IMGs	1,409	1,401	912	915	765
	Active IMGs matched	154	193	154	146	115
>3 attempts	Active IMGs	42	84	409	503	499
	Active IMGs matched	4	15	38	50	46

Regional IMG match results

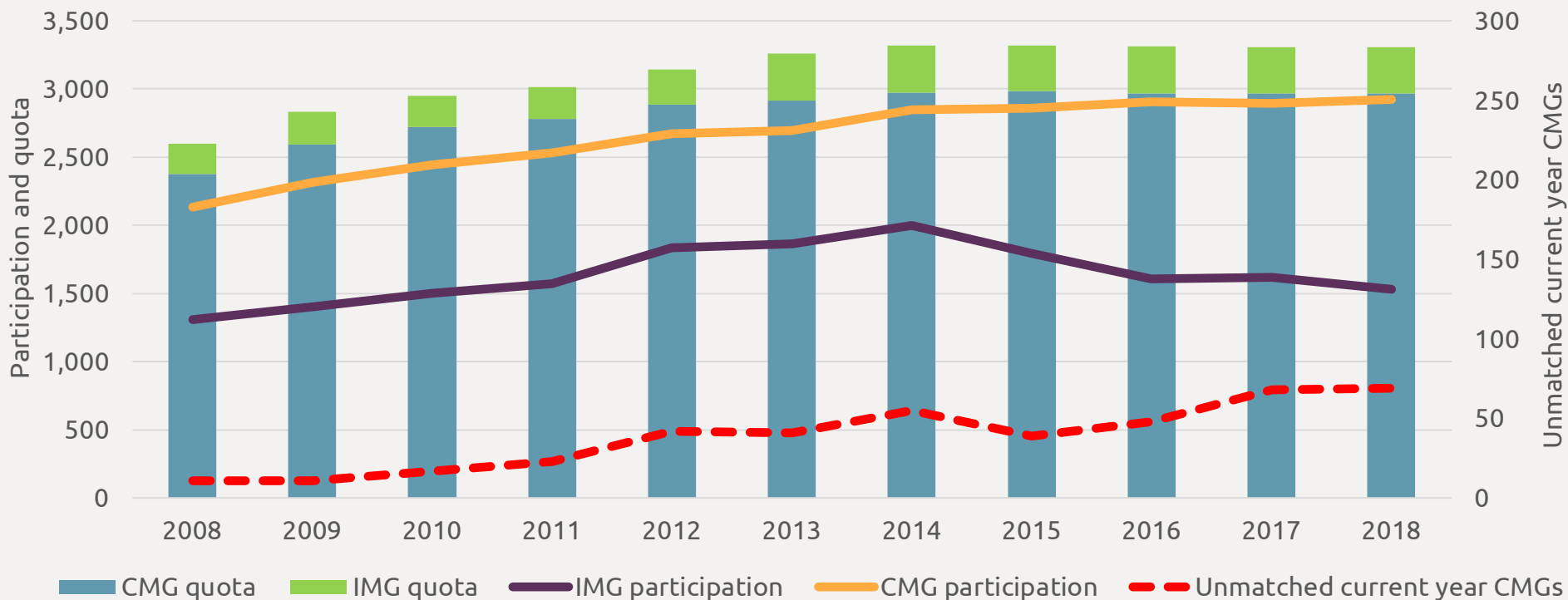
Region	Final participation	% matched
Africa	252	15%
Asia	363	13%
Central America/Caribbean	373	18%
Europe	415	41%
Middle East	272	16%
North America	4	0%
Oceania/Pacific Islands	34	53%
South America	45	24%

CMG Supply and demand

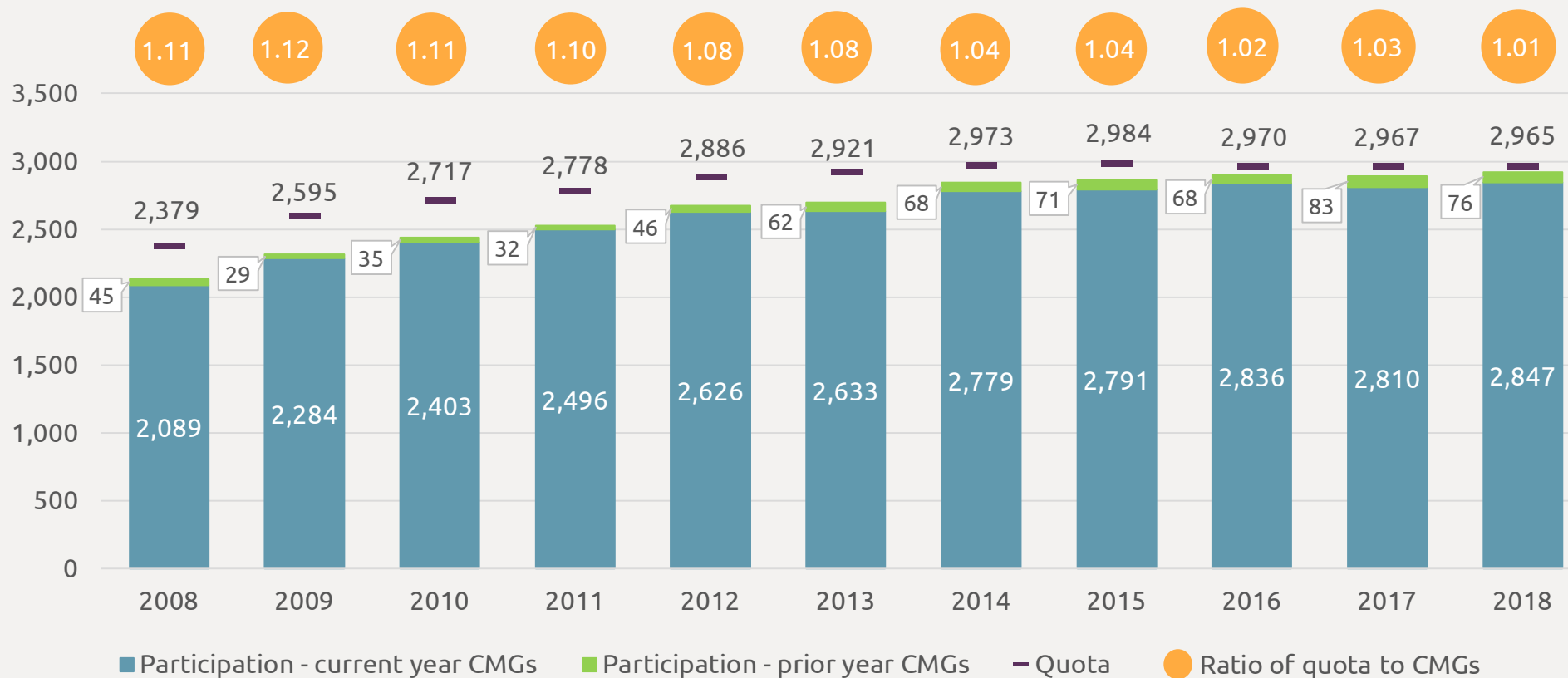
Supply: available quota in discipline

Demand: applicant first choice interest in discipline

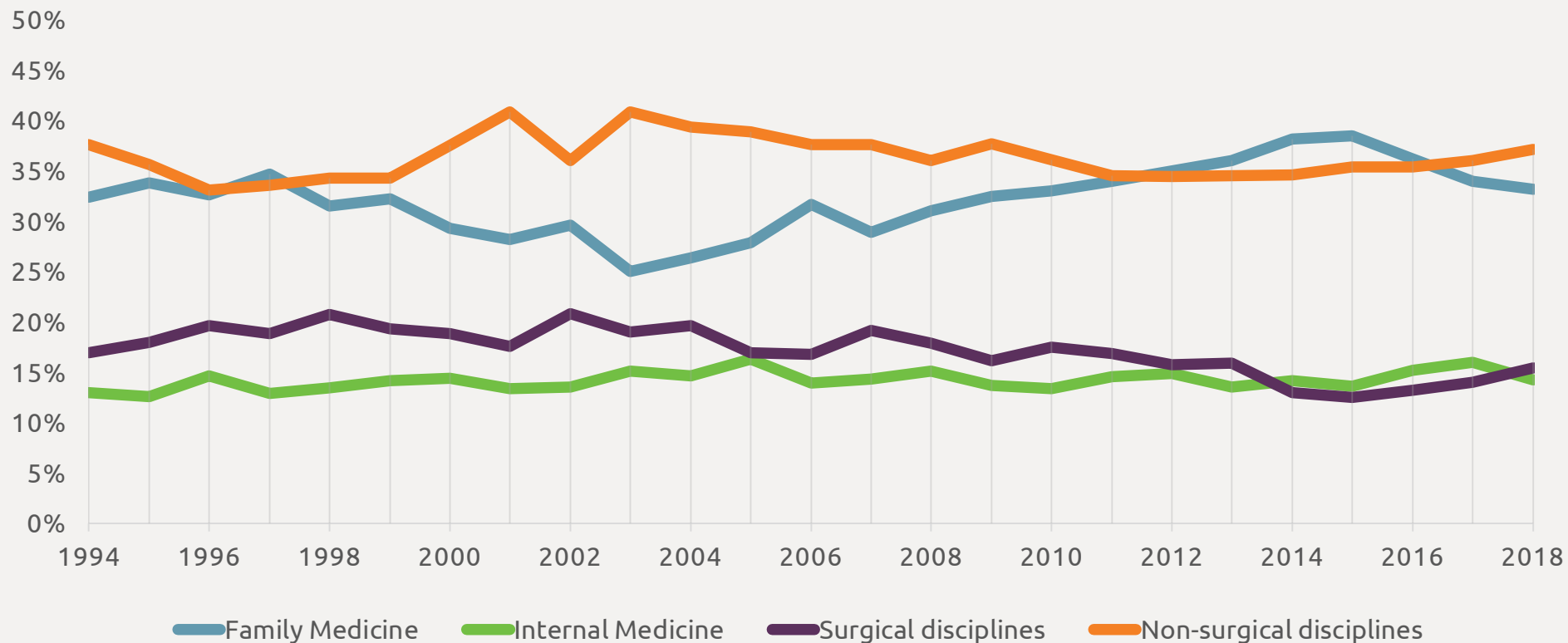
First iteration participation and quota, second iteration unmatched



CMG quota, participation and ratio



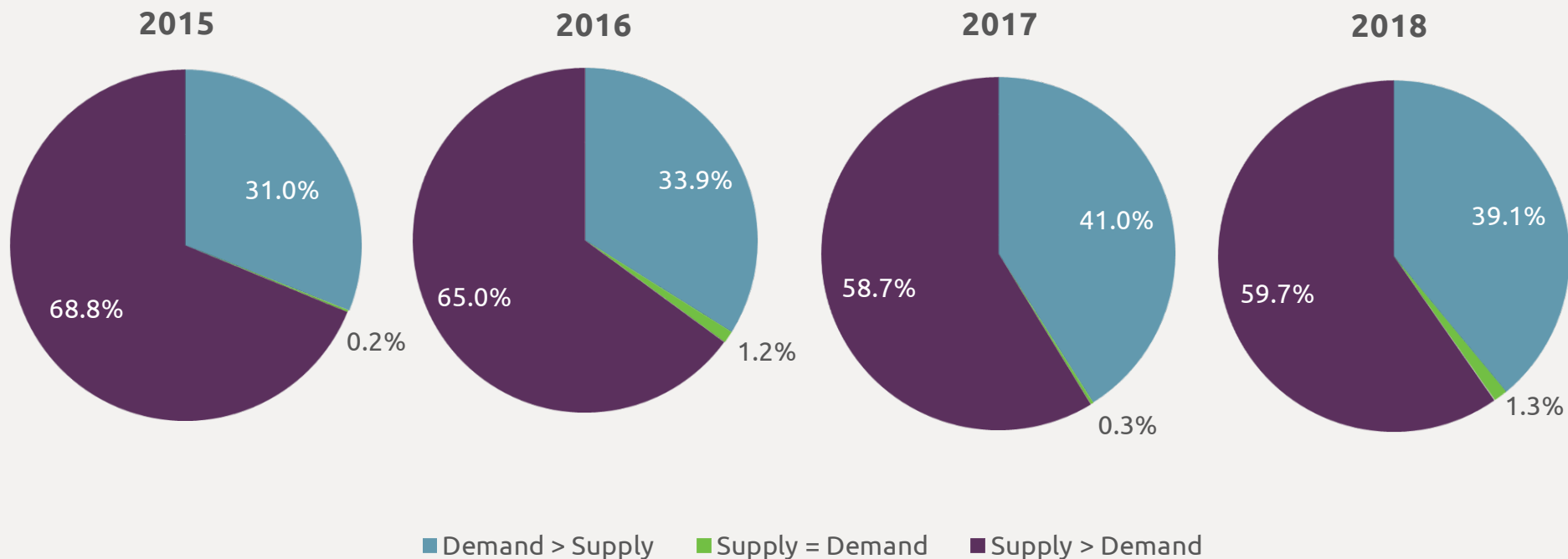
CMG discipline choices



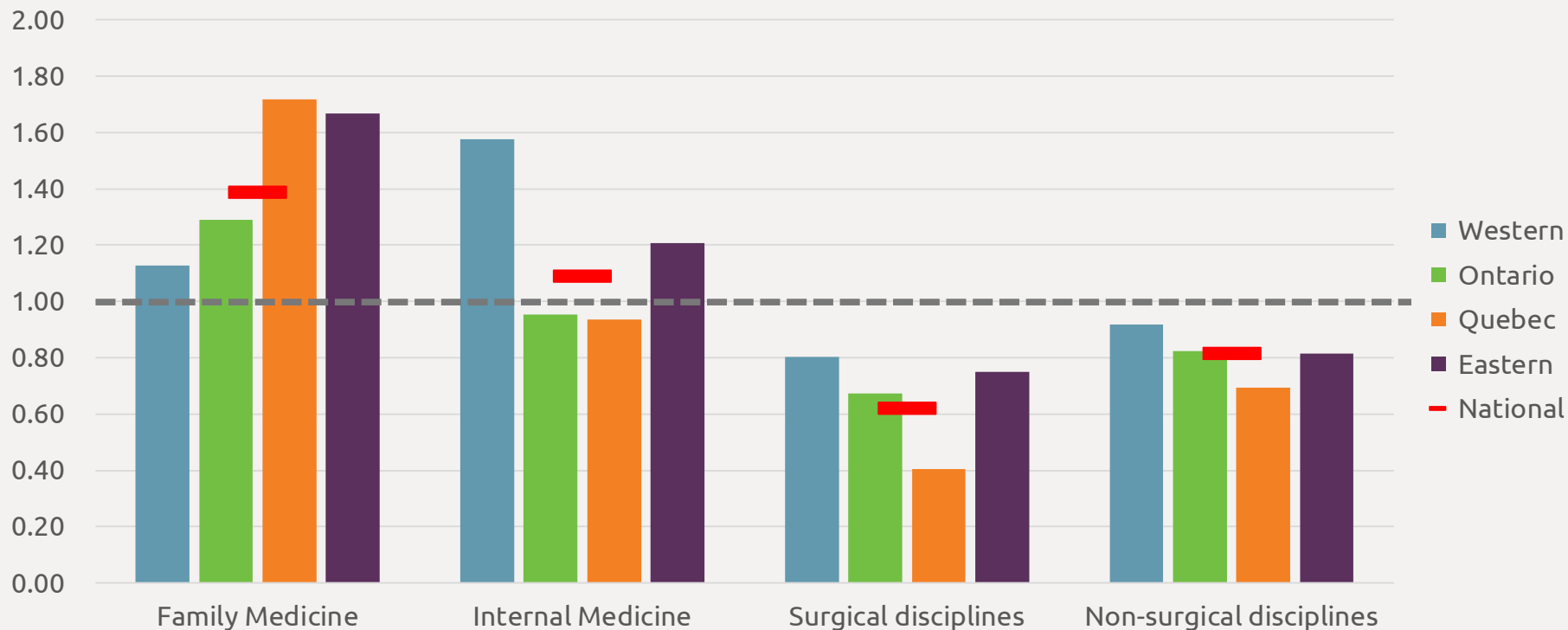
Top 10 CMG discipline choices

First choice disciplines	2016	2017	2018	Change from 2016	
Family Medicine	35.7%	33.4%	33.2%	-2.5%	↓
Internal Medicine	15.2%	16.0%	14.2%	-1.0%	↓
Psychiatry	5.8%	6.2%	6.5%	0.7%	
Pediatrics	5.7%	5.9%	5.3%	-0.4%	
Anesthesiology	4.8%	4.7%	5.0%	0.2%	
Emergency Medicine	4.4%	4.1%	4.2%	-0.2%	
Obstetrics & Gynecology	3.8%	3.9%	3.8%	0.0%	
Diagnostic Radiology	2.6%	3.1%	2.8%	0.2%	
General Surgery	3.4%	3.7%	4.1%	0.7%	
Ophthalmology	1.9%	1.7%	2.4%	0.5%	

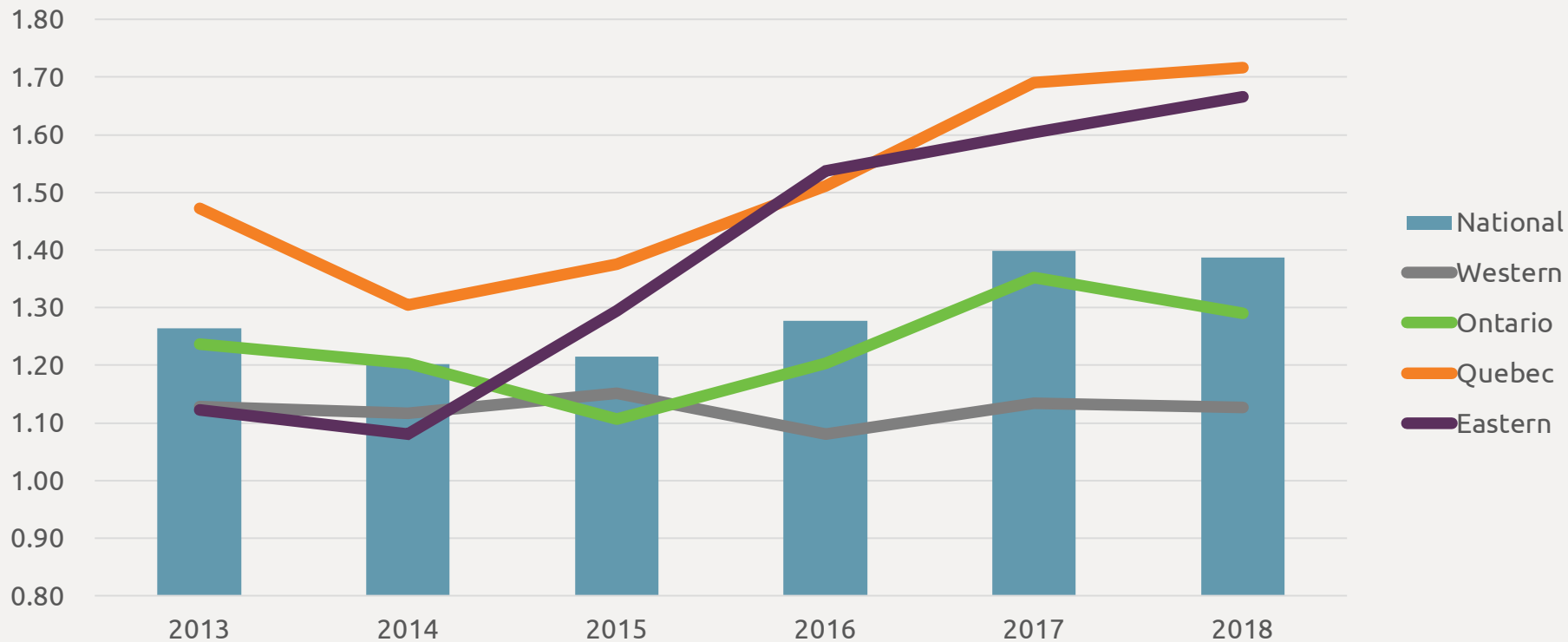
Breakdown of CMG first choice interest by supply and demand categorization of first choice discipline



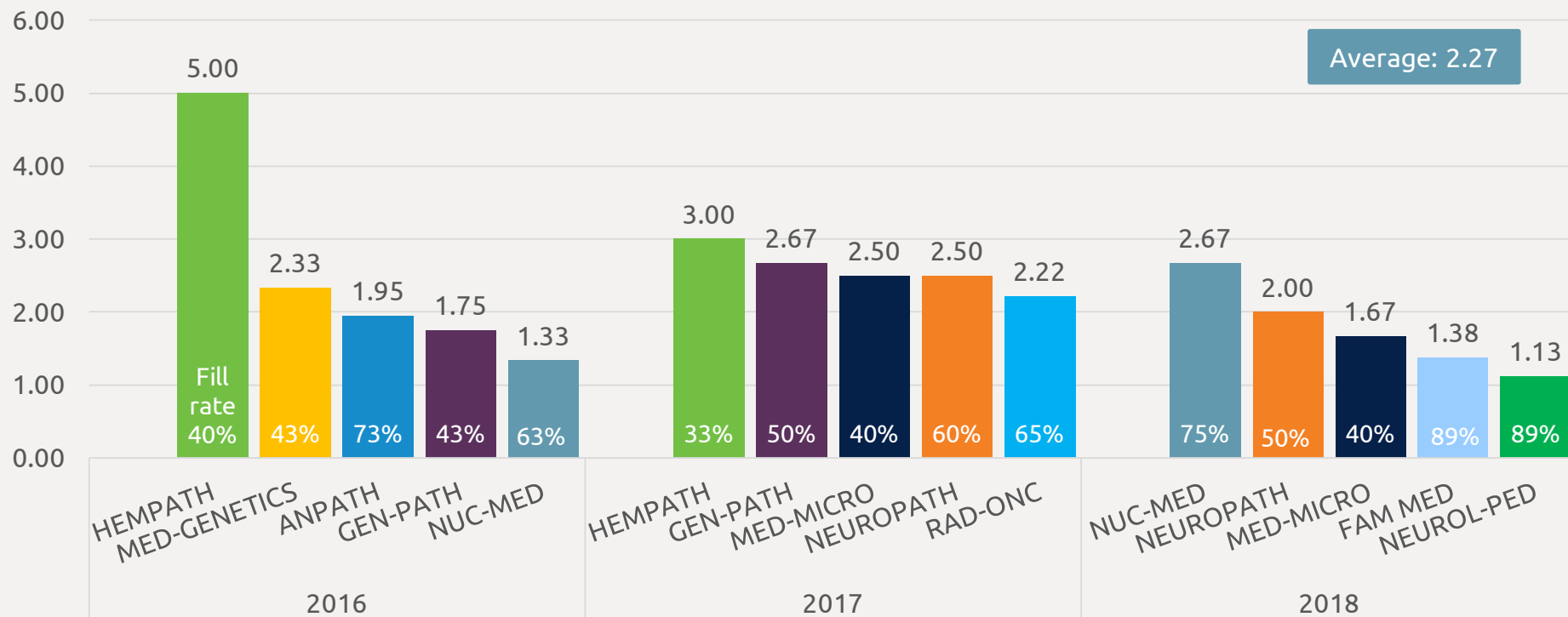
Supply and demand ratio: CMG quota by discipline grouping



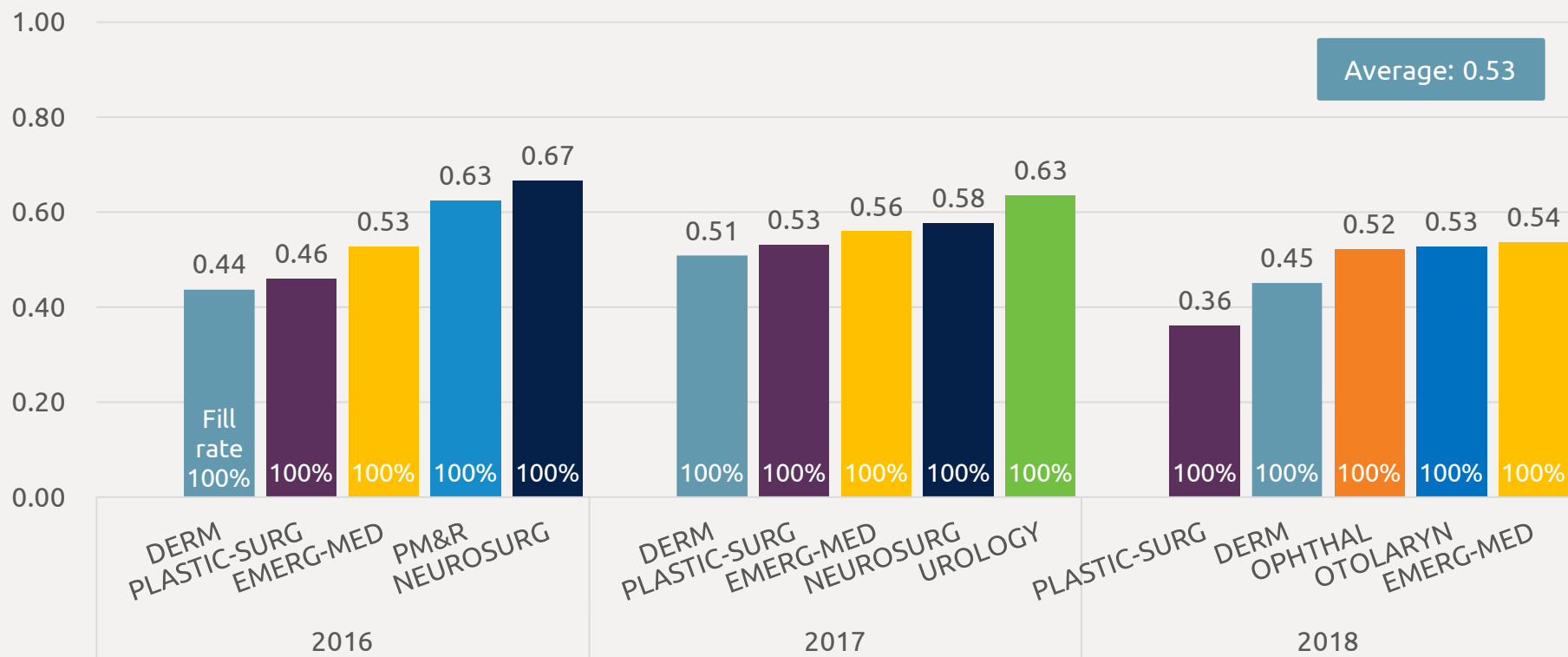
Supply and demand ratio: CMG quota for Family Medicine



Lowest demand: CMGs first discipline choice compared to availability

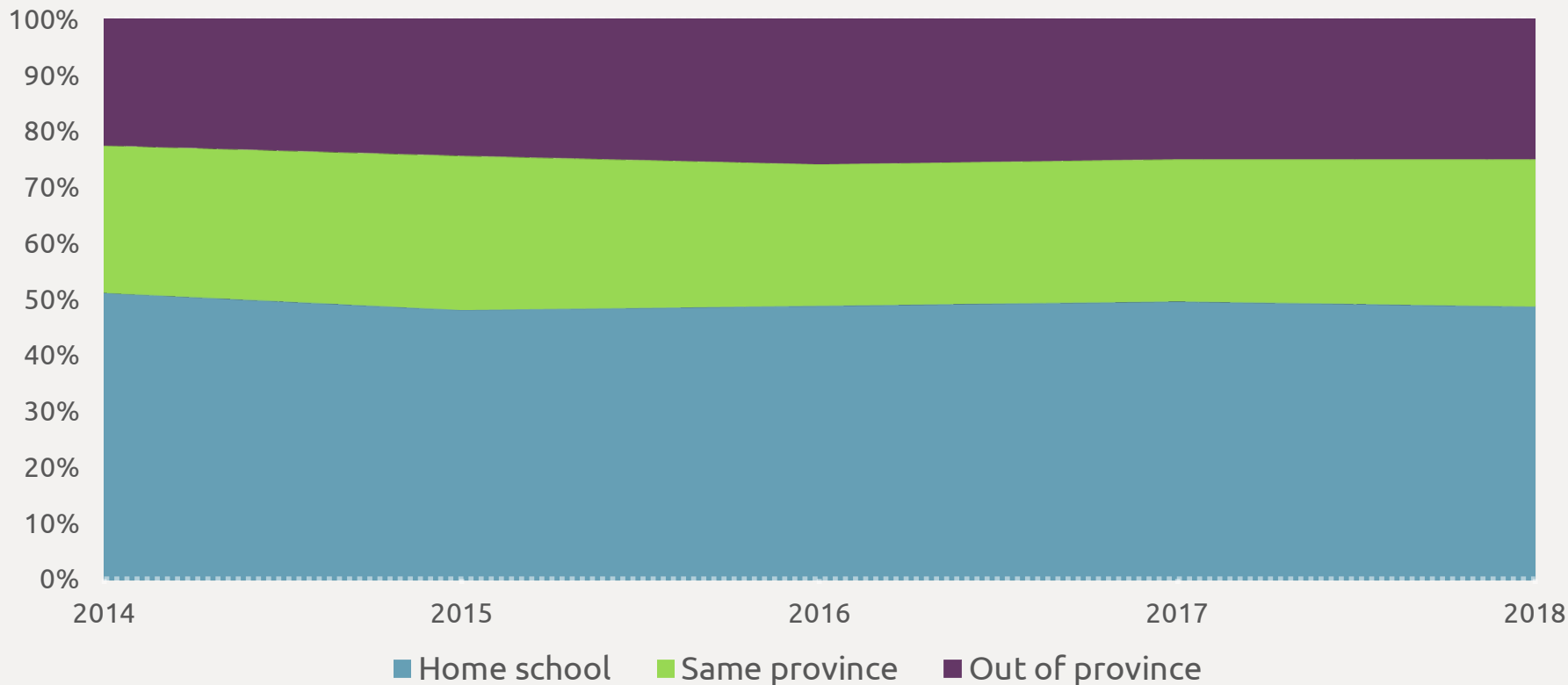


Highest demand: CMGs first discipline choice compared to availability

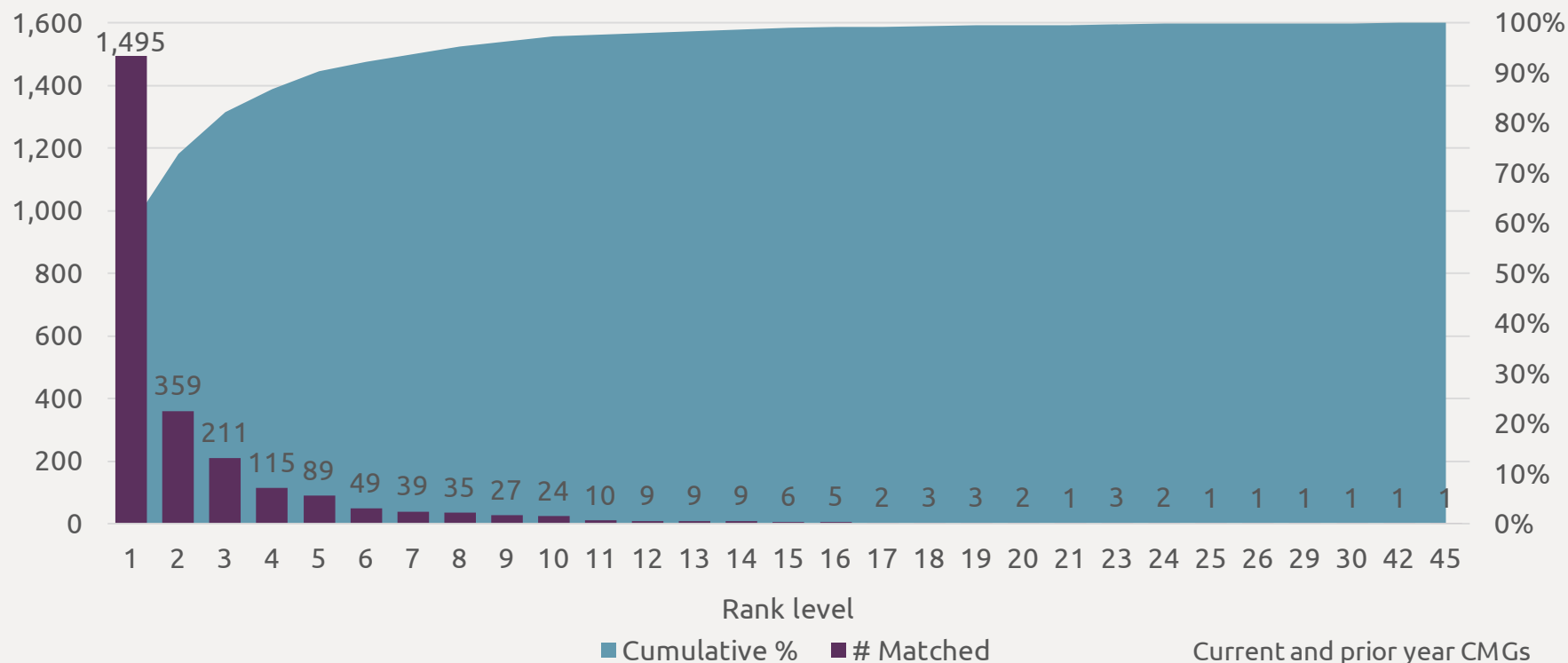


CMG results

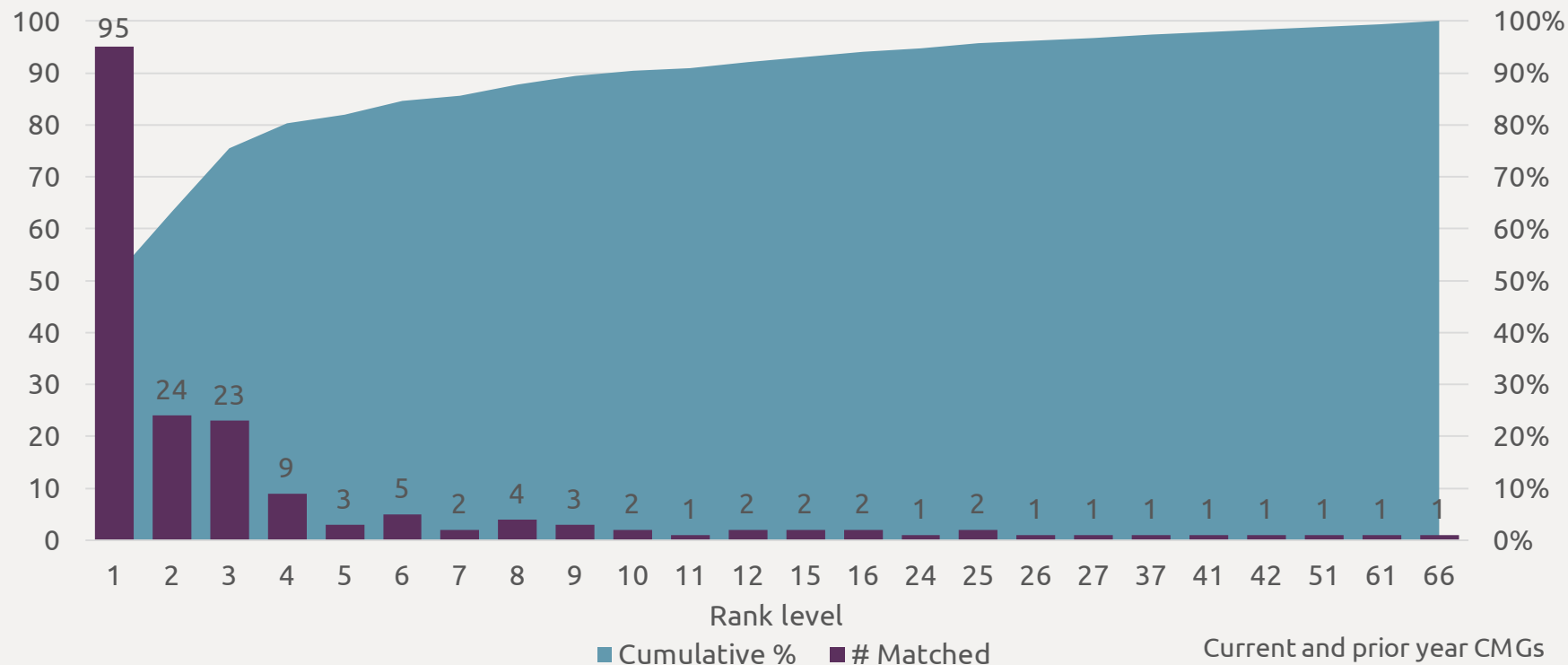
Graduate mobility: emigration at national level



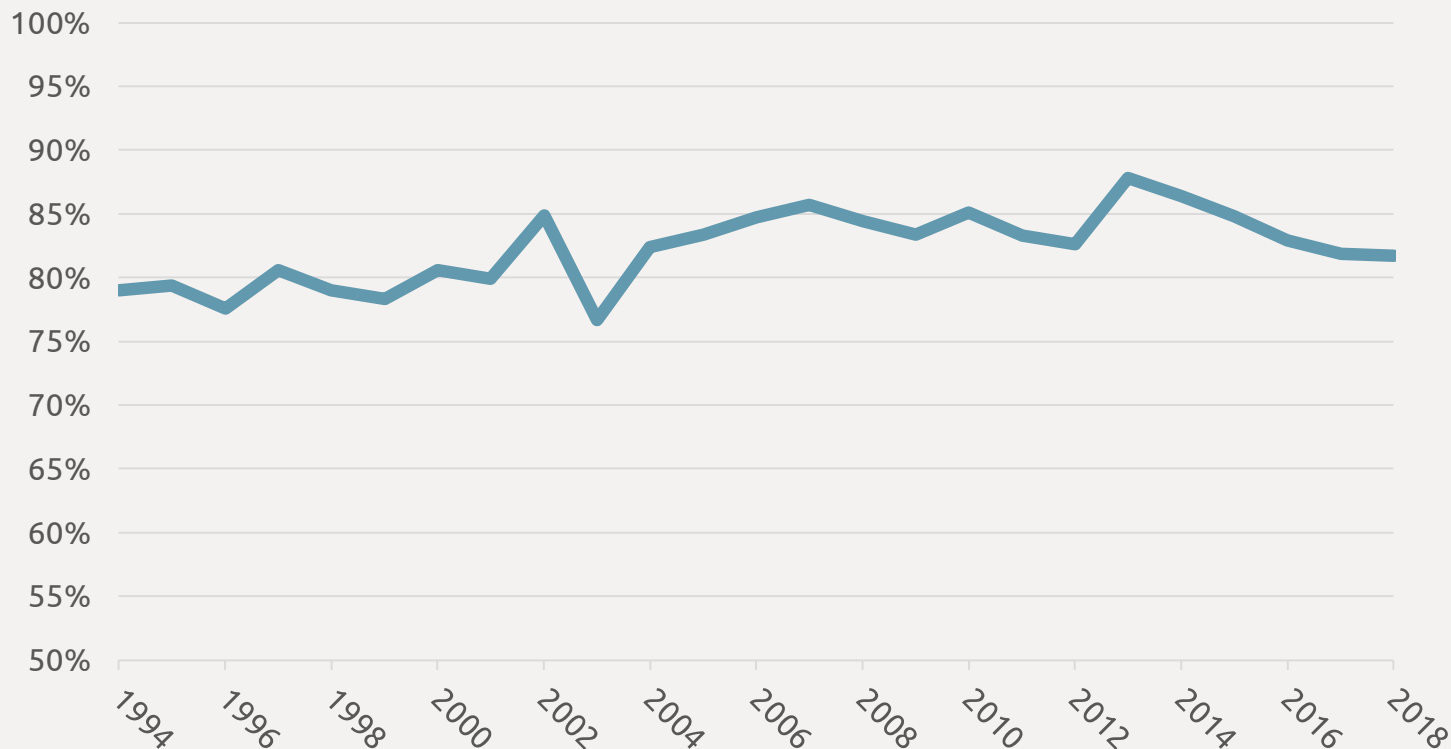
CMG match results by first and lower rank choices: ROL frequency distribution



CMG couples match results by first and lower rank choices: ROL frequency distribution

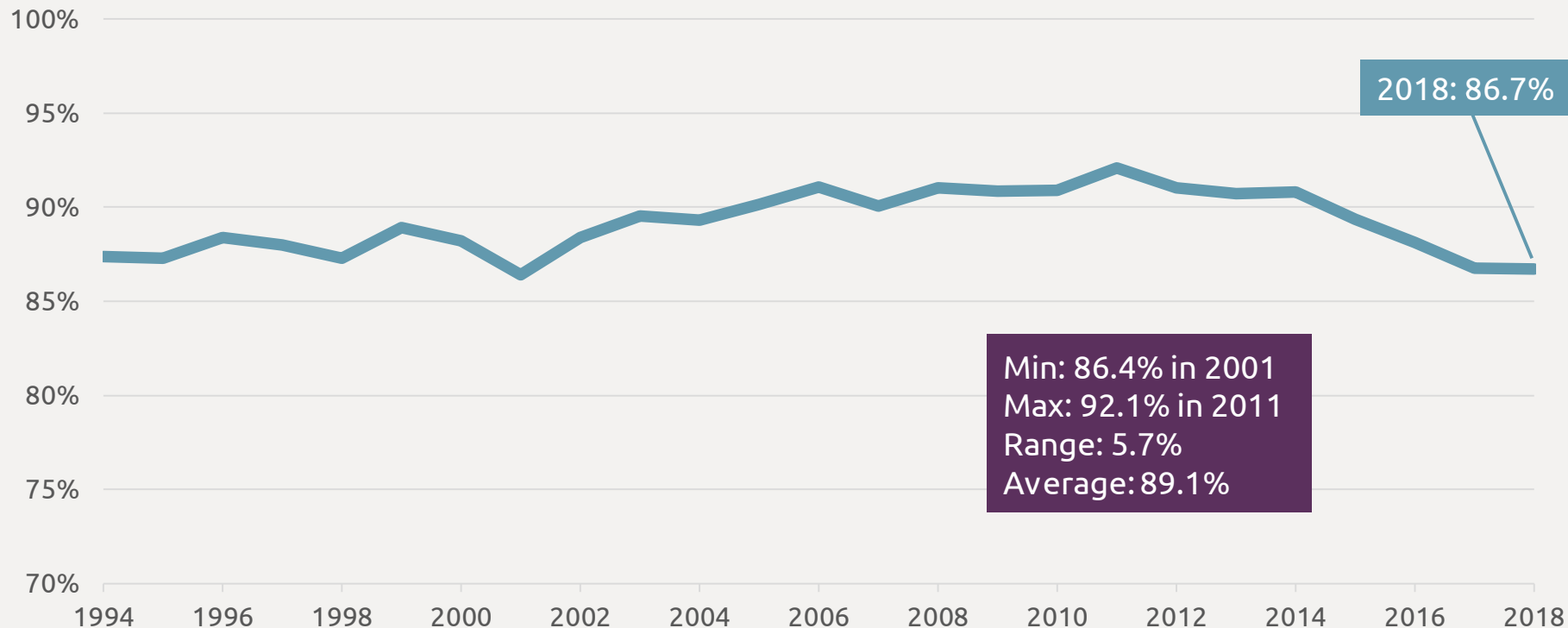


CMGs matched to one of their top three program choices

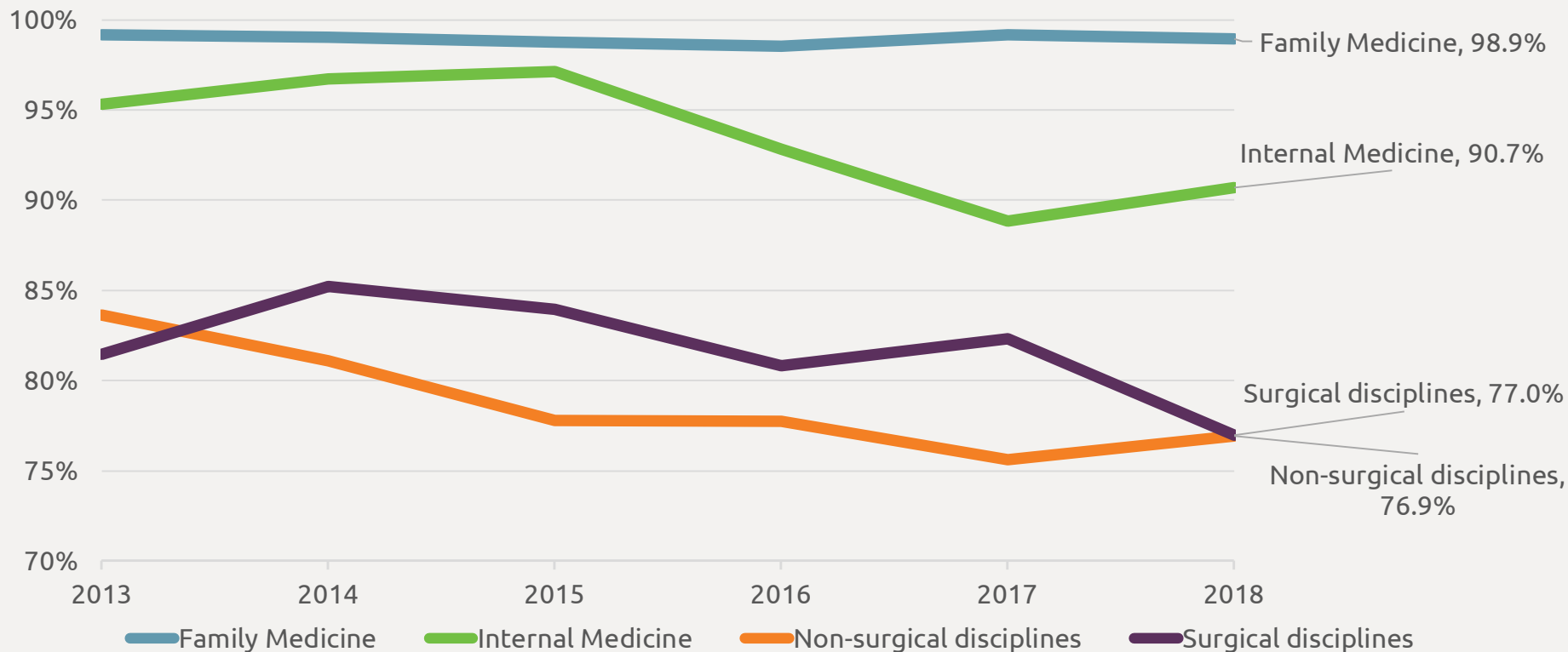


Program choice 2018	
First	58.9%
Second	14.2%
Third	8.7%
Fourth	4.6%
Fifth	3.4%
Sixth	2.0%
Seventh	1.5%
Eighth	6.8%

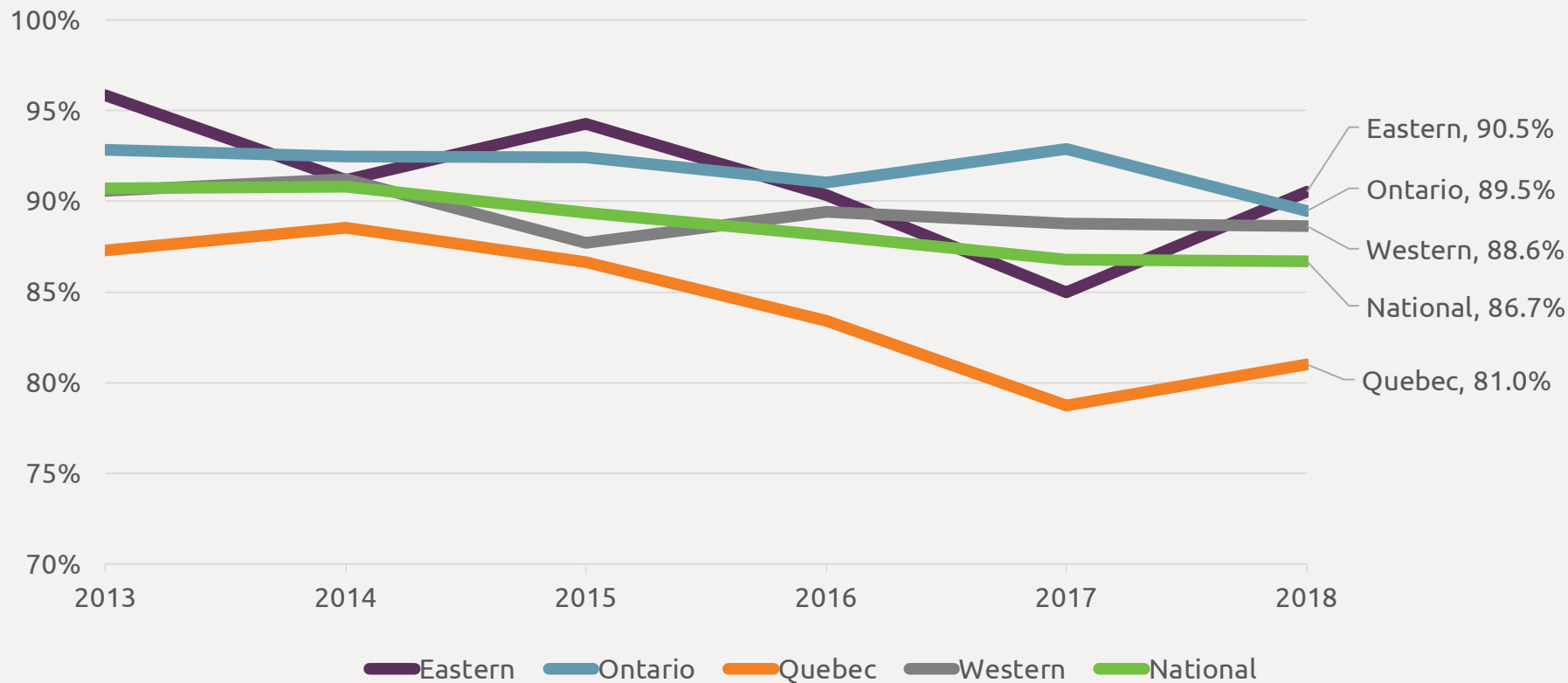
CMGs matched to first choice discipline



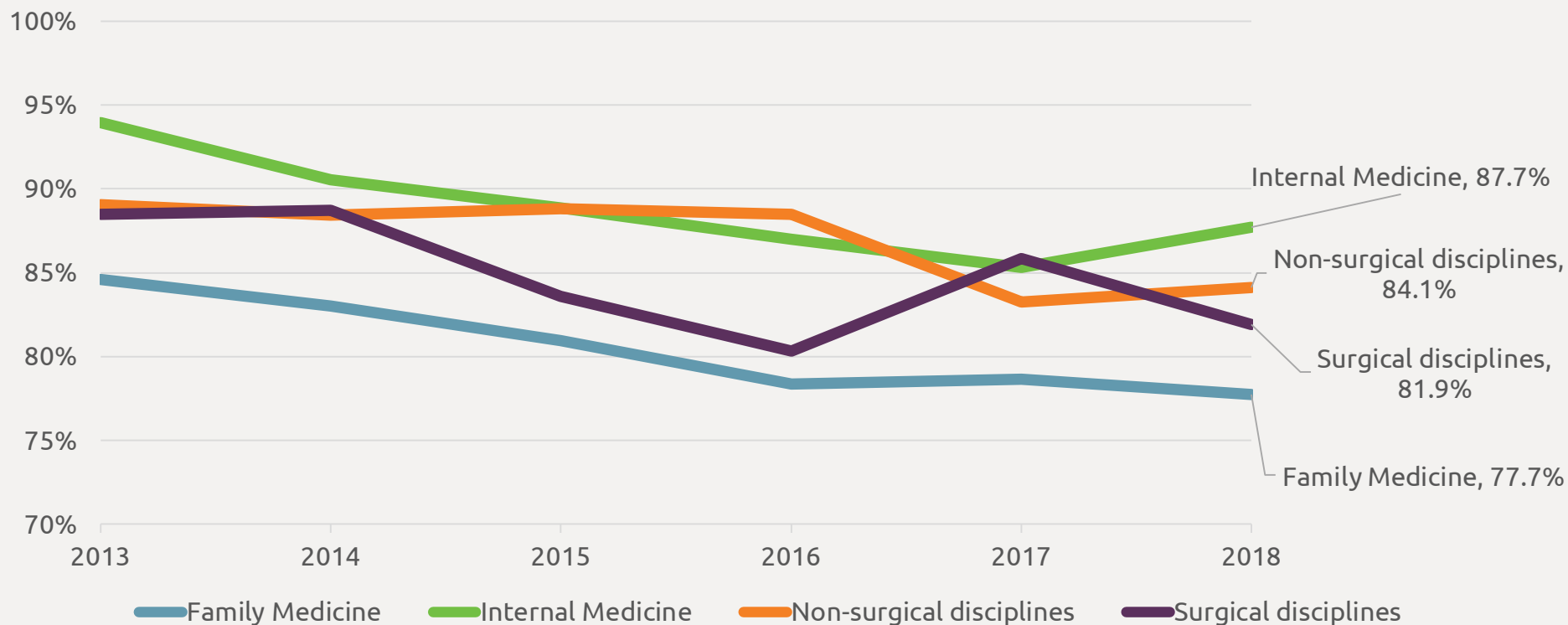
CMGs matched to first choice discipline, by discipline group



CMGs matched to first choice discipline, by region

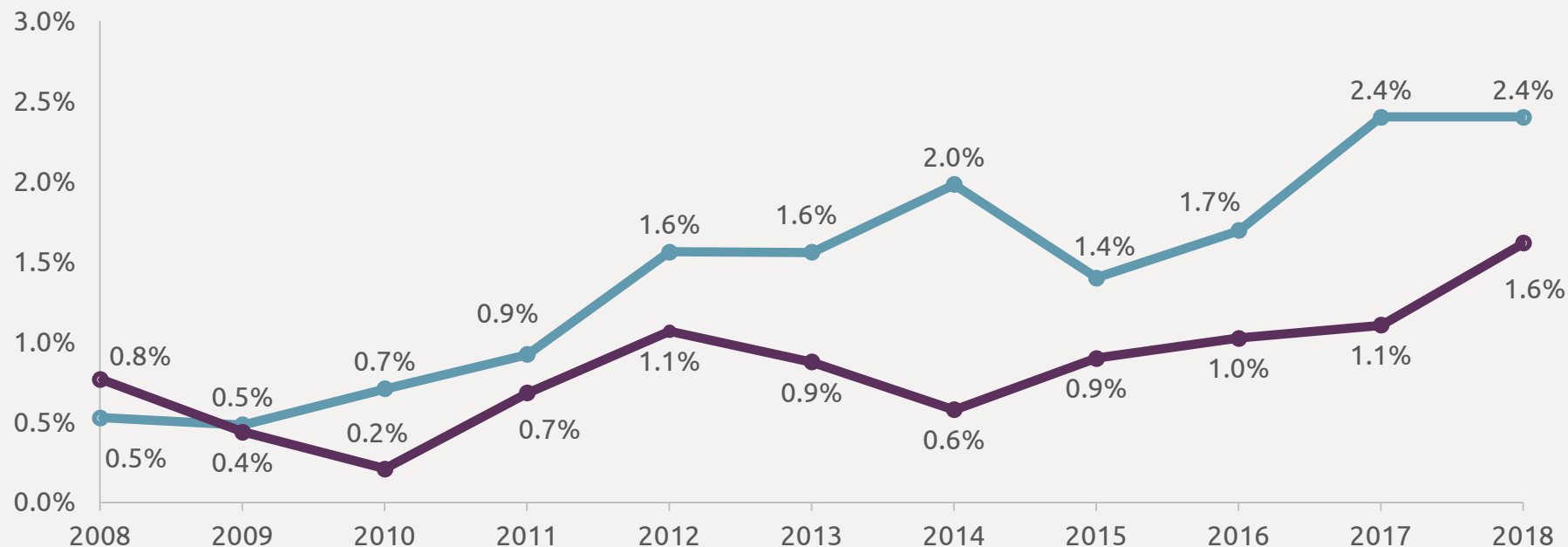


CMGs matched to one of their top three program choices, by discipline group



Unmatched and unfilled

Unmatched current year CMGs after second iteration

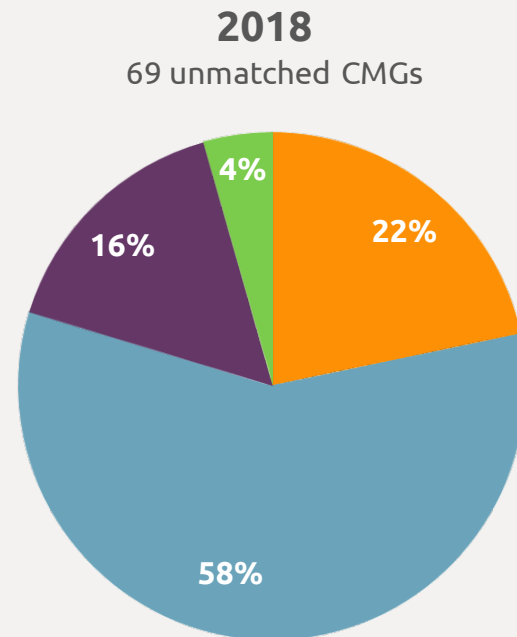
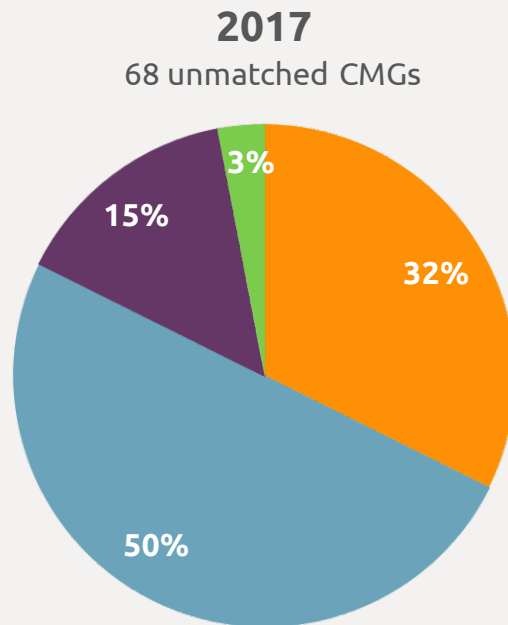
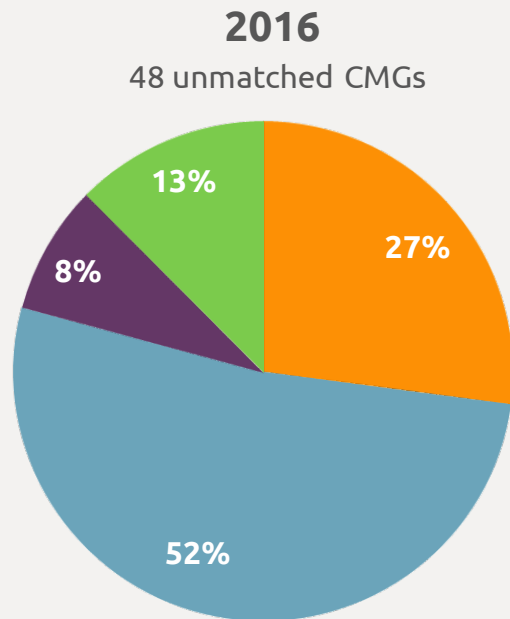


11	11	17	23	42	41	55	39	46	68	69
16	10	5	17	28	23	16	25	29	31	46

— Unmatched current year CMGs after second iteration

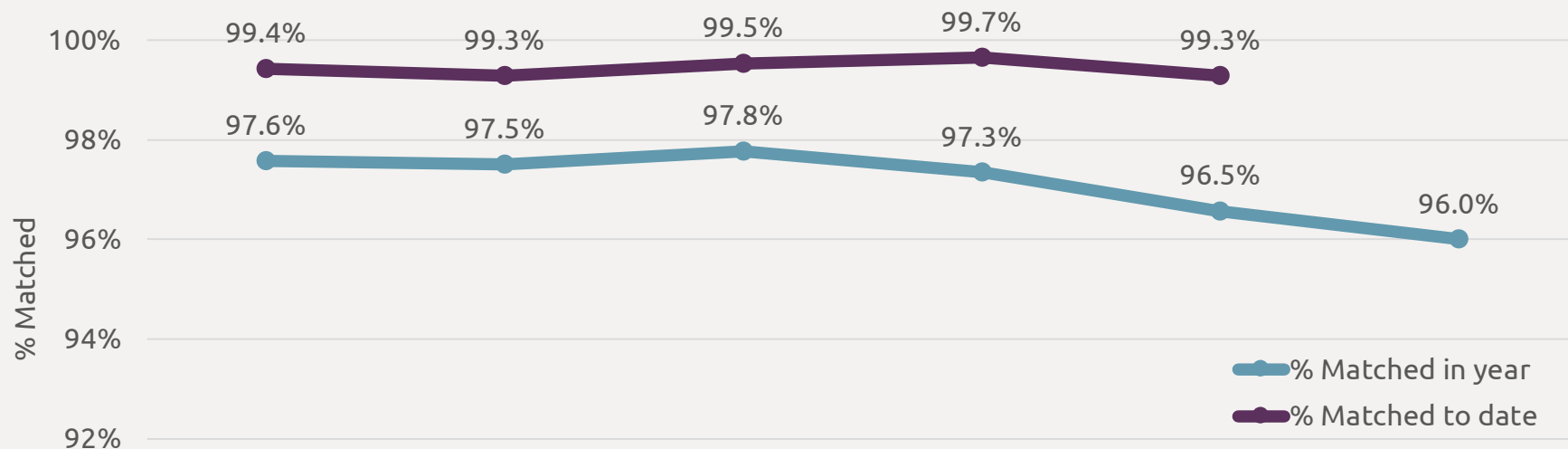
— Current year CMGs who did not match in first iteration and did not participate in second iteration

Categorizing unmatched CMGs after second iteration



- Not ranked by any programs
- Ranked by some programs but programs filled before rank
- Ranked by all programs but programs filled before rank
- Could have matched but did not rank program

CMG long-term match success



Remaining unmatched

2013

4

2014

6

2015

6

2016

4

2017

11

2018

69

Unknown journey

11

14

7

6

9

46

After second iteration

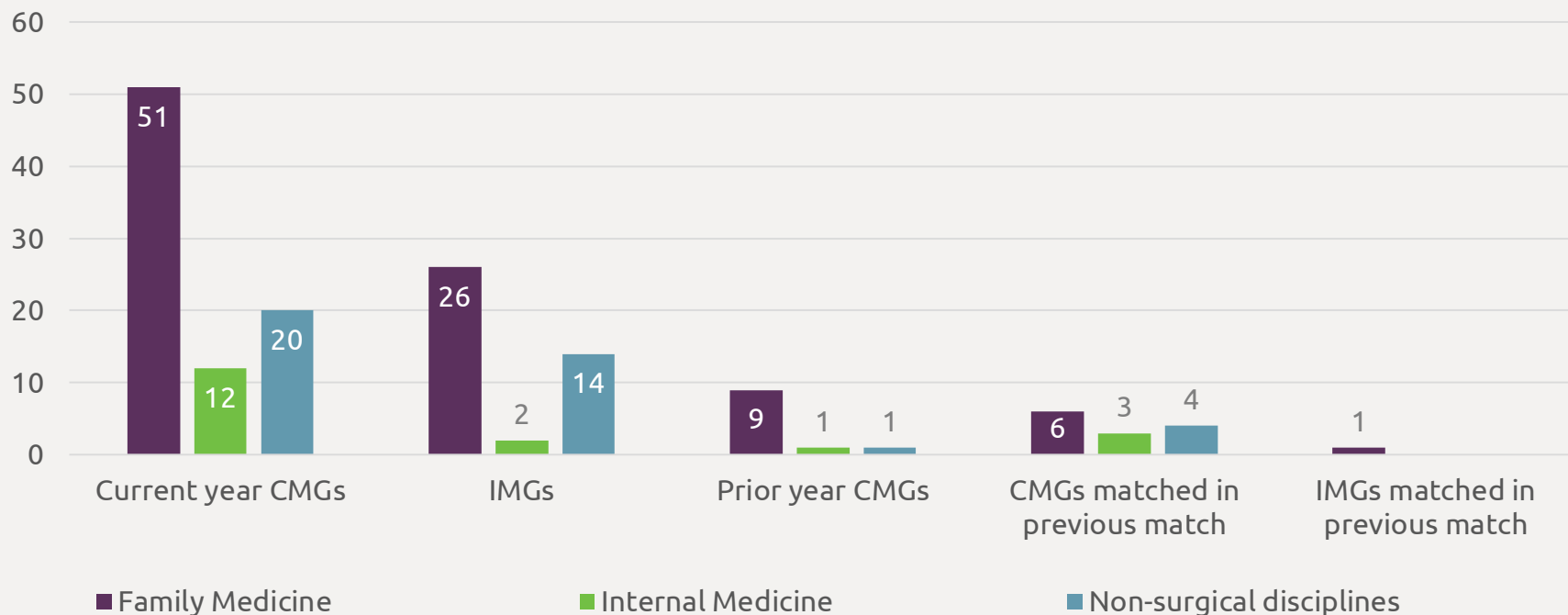
Comparing discipline choice to unfilled quota (1 of 2)

1 st choice discipline	1 st choice discipline of CMGs matching in 2 nd iteration	1 st choice discipline of CMGs participating and not matched in 2 nd iteration	1 st choice discipline of CMGs not matched in 1 st iteration and not participating in 2 nd iteration	Quota unfilled at the end of 1 st iteration	Quota unfilled at the end of 2 nd iteration
Anesthesiology	3	10		1	0
Anatomical Pathology	1	1		7	1
Cardiac Surgery			1	0	
Dermatology	5	8		1	
Diagnostic Radiology	8	5		6	1
Emergency Medicine			1	0	
Family Medicine	44	25	3	158	65
General Pathology	1	2		4	
General Surgery			8	0	
Hematological Pathology		2		1	
Internal Medicine	9	6	1	19	1
Medical Genetics and Genomics				1	1
Medical Microbiology				4	4
Neurology			1	1	
Neurology-Pediatric	3	2		1	
Neuropathology	1	1		2	1
Neurosurgery			1	0	

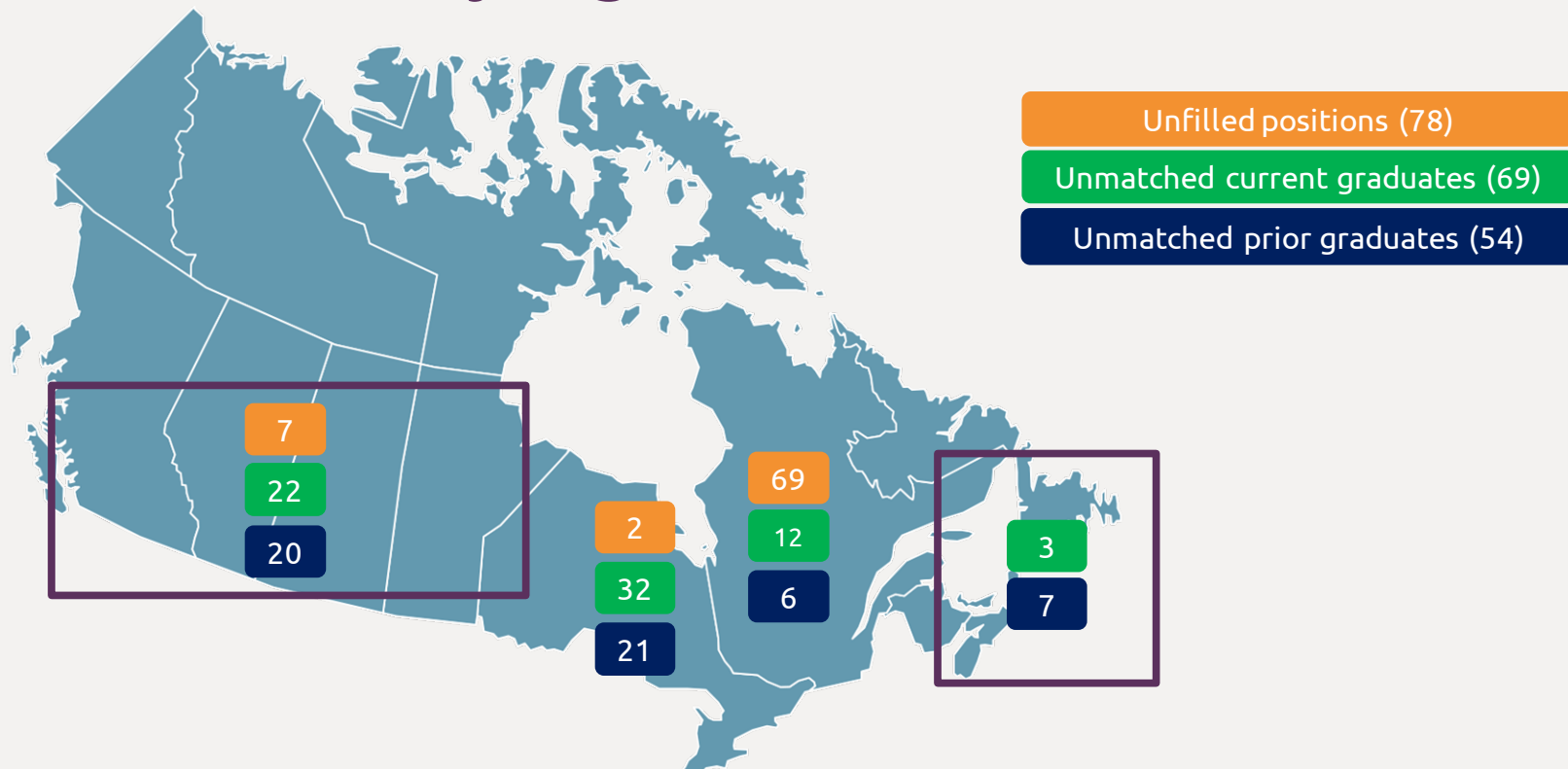
Comparing discipline choice to unfilled quota (2 of 2)

1 st choice discipline	1 st choice discipline of CMGs matching in 2 nd iteration	1 st choice discipline of CMGs participating and not matched in 2 nd iteration	1 st choice discipline of CMGs not matched in 1 st iteration and not participating in 2 nd iteration	Quota unfilled at the end of 1 st iteration	Quota unfilled at the end of 2 nd iteration
Nuclear Medicine				2	1
Obstetrics & Gynecology			6	0	
Ophthalmology			6	0	
Orthopedic Surgery			4	0	
Otolaryngology			3	0	
Pediatrics			1	0	
Physical Medicine and Rehabilitation	1	1		2	1
Plastic Surgery – Clinical Investigator Program			1	0	
Plastic Surgery			6	0	
Psychiatry	3	2	1	10	1
Public Health and Preventative Medicine	2			4	
Public Health and Preventative Medicine including Family Medicine		1		3	
Urology			1	0	
Vascular Surgery	2	3	1	1	1
Totals	83	69	46	228	78

Second iteration matched positions by applicant type and position discipline



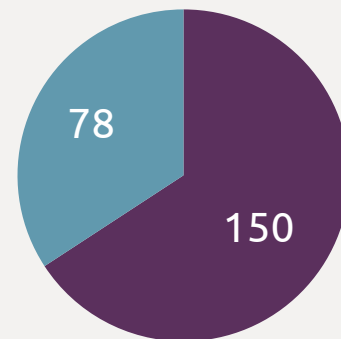
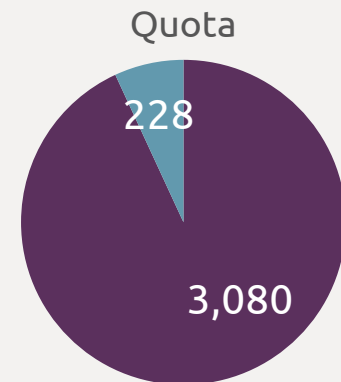
Unfilled positions and unmatched graduates after second iteration, by region



Revisiting the 2018 R-1 match national highlights

First iteration						
Applicant type	Current year			Prior year		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
CMG	2,649	93.0	198	52	64.8	24
USMG	24	70.6	10	0	0.0	3
IMG	117	46.4	135	238	18.6	1,041

Second iteration							
Applicant type	Current year			Prior year			
	Matched	% Matched	Unmatched	Matched	Matched with prior PG training	% Matched	Unmatched
CMG	83	54.6	69	11	13	30.8	54
USMG	0	0.0	2	0	0	0.0	2
IMG	6	7.9	70	36	1	4.4	806



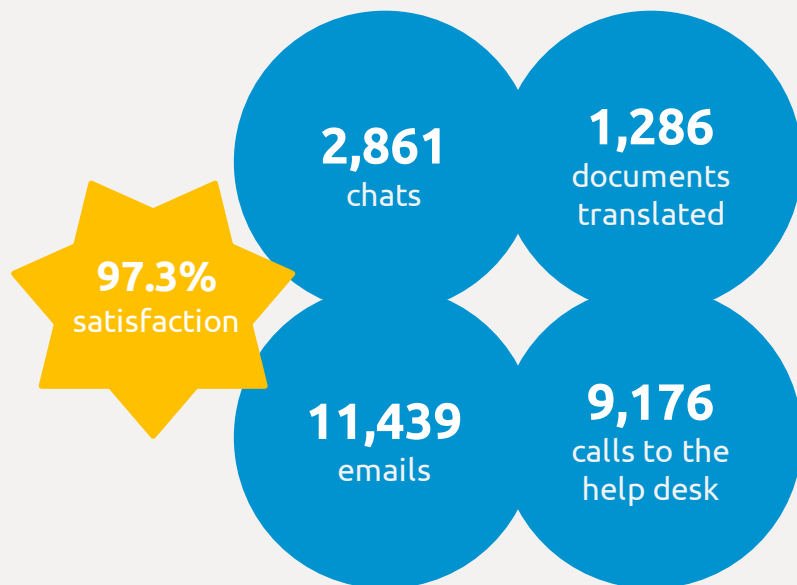
■ Filled ■ Unfilled

Additional
content

CaRMS by the numbers

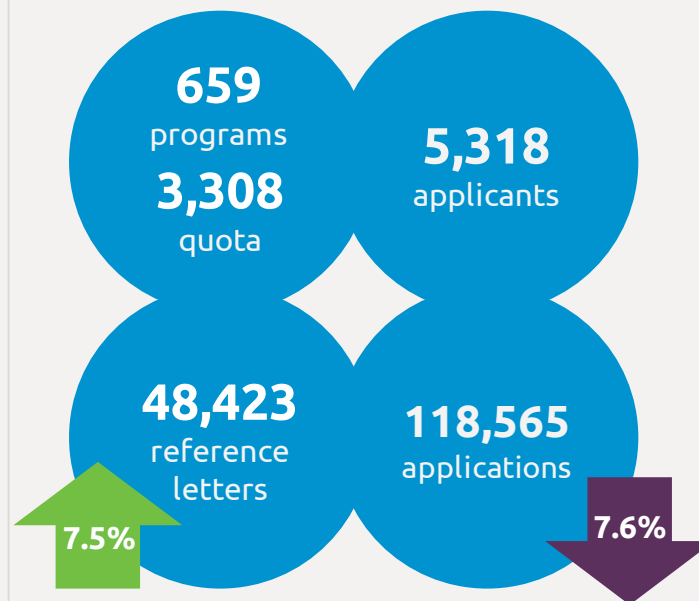
Client services

2018 R-1 Main Residency Match
First and second iterations combined

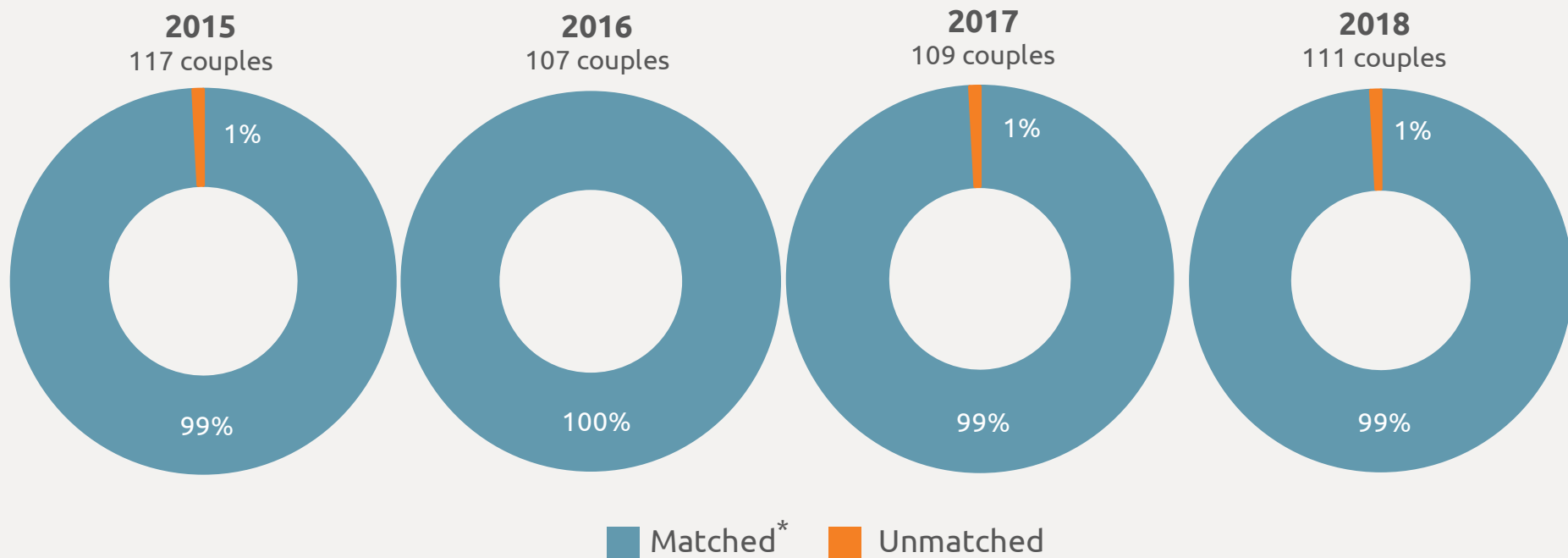


Applications

2018 R-1 Main Residency Match
First and second iterations combined

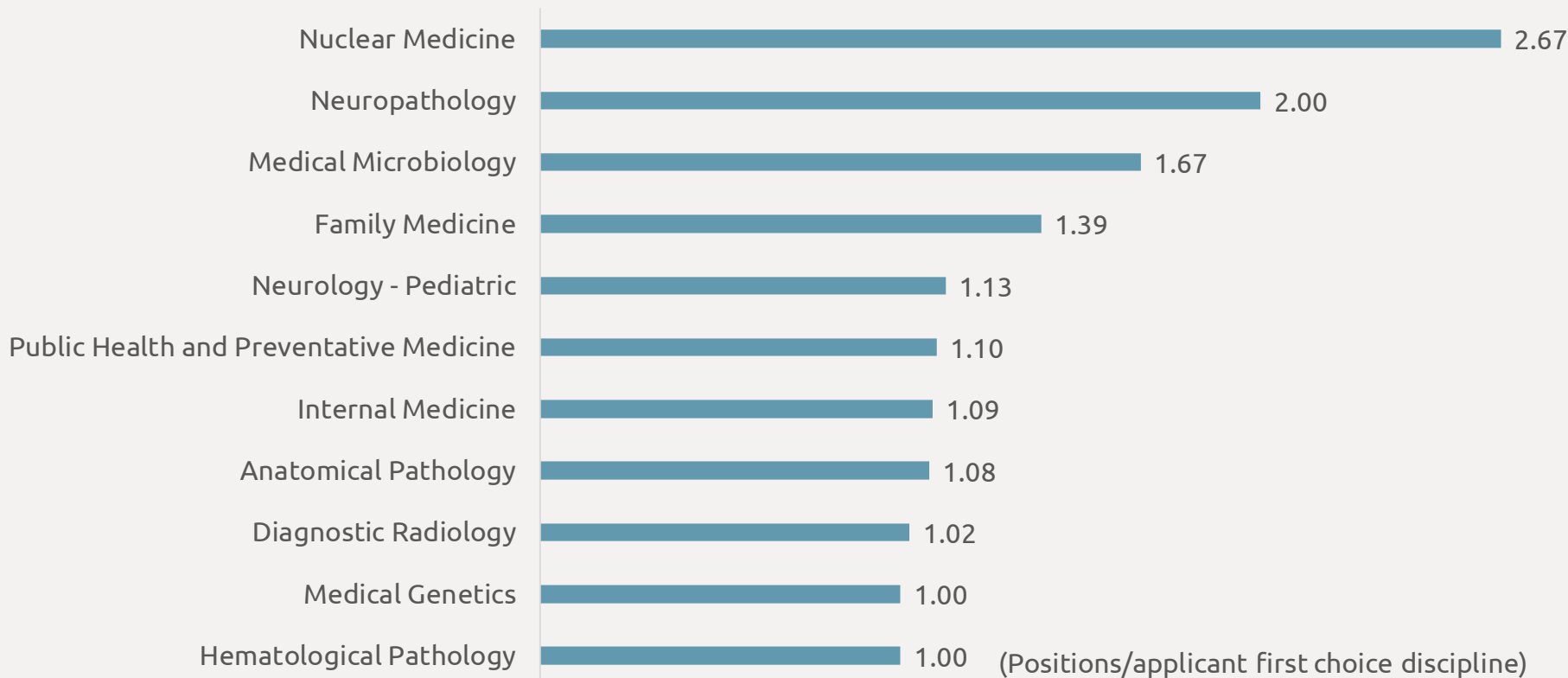


Couples match rates

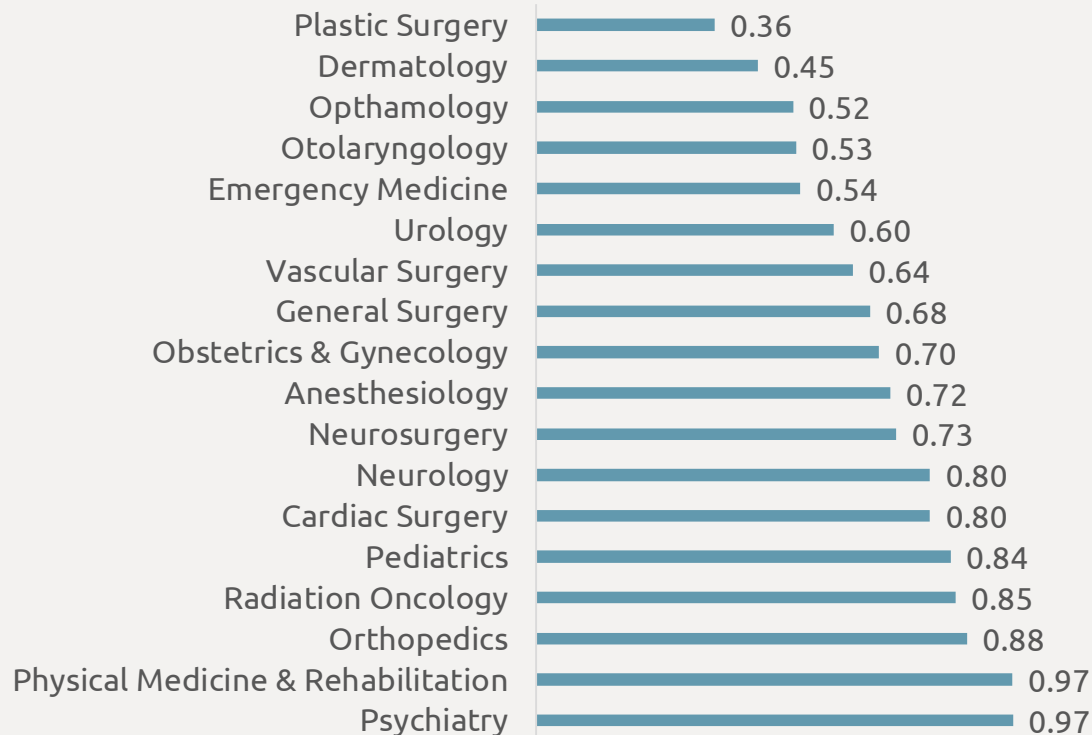


*Includes couples that matched only one partner

First choice discipline compared to availability (supply > demand)

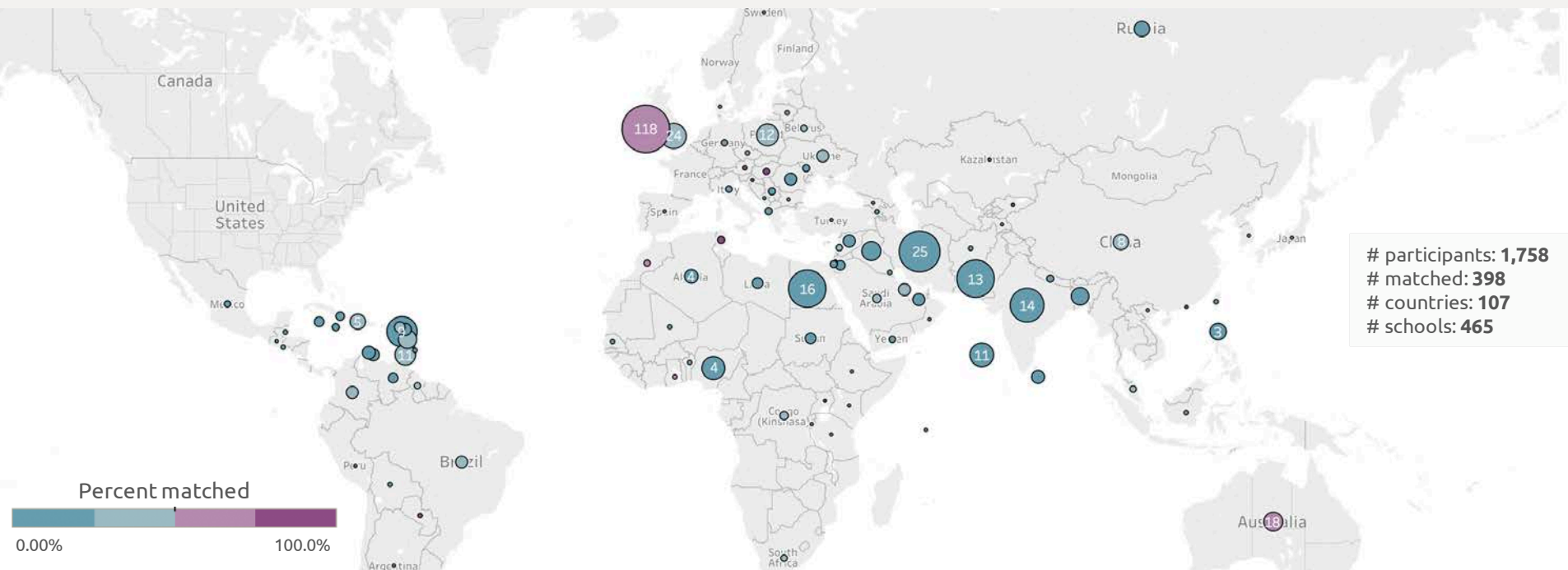


First choice discipline compared to availability (supply < demand)



(Positions/applicant first choice discipline)

Where IMG participants went to medical school



Country: Ireland
Matched: 54.1%
Final participation: 218

Country: Iran
Matched: 15.5%
Final participation: 161

Country: Pakistan
Matched: 9.6%
Final participation: 135

Country: Egypt
Matched: 12.3%
Final participation: 130

Country: India
Matched: 12.7%
Final participation: 110

Country: Saint Kitts and Nevis
Matched: 10.2%
Final participation: 88

Country: U.K.
Matched: 39.3%
Final participation: 61

Unfilled positions by discipline

Discipline	After first iteration	After second iteration	Discipline	After first iteration	After second iteration
Family Medicine	158	65	Physical Medicine & Rehabilitation	2	1
Internal Medicine	19	1	Anesthesiology	1	0
Psychiatry	10	1	Dermatology	1	0
Anatomical Pathology	7	1	Hematological Pathology	1	0
Public Health and Preventive Medicine	7	0	Medical Genetics and Genomics	1	1
Diagnostic Radiology	6	1	Neurology	1	0
General Pathology	4	0	Neurology - Pediatric	1	0
Medical Microbiology	4	4	Vascular Surgery	1	1
Neuropathology	2	1	TOTAL	228	78
Nuclear Medicine	2	1			

Summary of 2018 match results

First and second iterations combined

Applicant type	# matched	% matched
Current year CMG	2,732	96.0
Prior year CMG	76	57.1
IMG	398	22.6
USMG	24	58.5

Match results by school of graduation, first iteration

School of graduation	Matched			Unmatched			Final participation		
	2018 Graduates	Prior year graduates	Total	2018 Graduates	Prior year graduates	Total	2018 Graduates	Prior year graduates	Total
Memorial University of Newfoundland	74	2	76	3	1	4	77	3	80
Dalhousie University	101	2	103	5	0	5	106	2	108
Université Laval	193	4	197	6	0	6	199	4	203
Université de Sherbrooke	180	6	186	15	4	19	195	10	205
Université de Montréal	271	9	280	23	2	25	294	11	305
McGill University	158	6	164	21	4	25	179	10	189
University of Ottawa	161	0	161	9	0	9	170	0	170
Queen's University	93	2	95	4	0	4	97	2	99
Northern Ontario School of Medicine	65	1	66	3	0	3	68	1	69
University of Toronto	247	0	247	28	2	30	275	2	277
McMaster University	199	10	209	12	3	15	211	13	224
Western University	160	1	161	18	1	19	178	2	180
University of Manitoba	100	0	100	7	1	8	107	1	108
University of Saskatchewan	92	1	93	5	1	6	97	2	99
University of Alberta	146	0	146	9	0	9	155	0	155
University of Calgary	143	1	144	12	0	12	155	1	156
University of British Columbia	266	7	273	18	5	23	284	12	296
TOTAL	2,649	52	2,701	198	24	222	2,847	76	2,923

Match results by school of graduation, second iteration

School of graduation	Matched			Unmatched			Final participation		
	2018 Graduates	Prior year graduates	Total	2018 Graduates	Prior year graduates	Total	2018 Graduates	Prior year graduates	Total
Memorial University of Newfoundland	1	1	2	0	4	4	1	5	6
Dalhousie University	2	0	2	3	3	6	5	3	8
Université Laval	1	1	2	0	0	0	1	1	2
Université de Sherbrooke	9	3	12	3	1	4	12	4	16
Université de Montréal	8	1	9	4	2	6	12	3	15
McGill University	11	3	14	5	3	8	16	6	22
University of Ottawa	4	2	6	5	3	8	9	5	14
Queen's University	3	0	3	0	3	3	3	3	6
Northern Ontario School of Medicine	2	1	3	1	0	1	3	1	4
University of Toronto	7	2	9	13	6	19	20	8	28
McMaster University	3	2	5	9	3	12	12	5	17
Western University	12	1	13	4	6	10	16	7	23
University of Manitoba	5	0	5	2	3	5	7	3	10
University of Saskatchewan	2	2	4	3	1	4	5	3	8
University of Alberta	3	1	4	5	1	6	8	2	10
University of Calgary	4	2	6	8	5	13	12	7	19
University of British Columbia	6	2	8	4	10	14	10	12	22
TOTAL	83	24	107	69	54	123	152	78	230

Positions by school of residency

School of residency	First iteration			Second iteration	
	Positions available	Positions filled	Positions unfilled	Positions filled	Positions unfilled
Memorial University of Newfoundland	78	71	7	7	0
Dalhousie University	132	120	12	12	0
Université Laval	230	182	48	15	33
Université de Sherbrooke	200	171	29	12	17
Université de Montréal	296	274	22	6	16
McGill University	191	180	11	8	3
University of Ottawa	197	187	10	8	2
Queen's University	128	128	0	0	0
Northern Ontario School of Medicine	60	55	5	5	0
University of Toronto	407	407	0	0	0
McMaster University	216	210	6	6	0
Western University	182	168	14	14	0
University of Manitoba	138	123	15	15	0
University of Saskatchewan	118	100	18	18	0
University of Alberta	195	188	7	6	1
University of Calgary	194	175	19	17	2
University of British Columbia	346	341	5	1	4
TOTAL	3,308	3,080	228	150	78

Positions by discipline (1 of 2)

Discipline	First iteration			Second iteration	
	Positions available	Positions filled	Positions unfilled	Positions filled	Positions unfilled
Anatomical Pathology	46	39	7	6	1
Anesthesiology	113	112	1	1	0
Cardiac Surgery	8	8	0	0	0
Dermatology	29	28	1	1	0
Diagnostic Radiology	88	82	6	5	1
Emergency Medicine	72	72	0	0	0
Family Medicine	1,532	1,374	158	93	65
Family Medicine integrated Emergency Medicine	2	2	0	0	0
General Pathology	9	5	4	4	0
General Surgery	86	86	0	0	0
Hematological Pathology	4	3	1	1	0
Internal Medicine	506	487	19	18	1
Medical Genetics and Genomics	8	7	1	0	1
Medical Microbiology	8	4	4	0	4
Neurology	50	49	1	1	0
Neurology - Pediatric	10	9	1	1	0
Neuropathology	4	2	2	1	1
Neurosurgery	21	21	0	0	0
Nuclear Medicine	8	6	2	1	1
Obstetrics and Gynecology	83	83	0	0	0

Positions by discipline (2 of 2)

Discipline	First iteration			Second iteration	
	Positions available	Positions filled	Positions unfilled	Positions filled	Positions unfilled
Ophthalmology	39	39	0	0	0
Orthopedic Surgery	54	54	0	0	0
Otolaryngology - Head and Neck Surgery	29	29	0	0	0
Otolaryngology - Head and Neck Surgery - Research Track	1	1	0	0	0
Pediatrics	149	149	0	0	0
Pediatrics - MD-PHD stream	1	1	0	0	0
Physical Medicine & Rehabilitation	31	29	2	1	1
Plastic Surgery	20	20	0	0	0
Plastic Surgery - Clinician Investigator Program	1	1	0	0	0
Plastic Surgery - Research Track	1	1	0	0	0
Psychiatry	206	196	10	9	1
Public Health and Preventive Medicine	11	7	4	4	0
Public Health and Preventive Medicine including Family Medicine	14	11	3	3	0
Radiation Oncology	23	23	0	0	0
Urology	32	32	0	0	0
Vascular Surgery	9	8	1	0	1
TOTAL	3,308	3,080	228	150	78

Thank you

