



CaRMS Forum

April 12, 2019



Match data



R-1 Outcome overview



**Opportunities,
participation & choices**



Detailed outcomes



CMG elective profiles



Unmatched CMGs & unfilled positions

Key themes



Increase in opportunities nationally



Fill rates higher



More CMG interest in high demand disciplines



Fewer unmatched CMGs

R-1 Outcome overview

Applicant pool breakdown 2019

First and second iterations combined

Applicant type	Registrants	Inactive/withdrawn applicants	Active applicants	ROL not submitted	Final participants*
CMG	3,023	23	3,000	16	2,984
USMG	71	17	54	17	37
IMG	2,540	238	2,302	577	1,725

*Final participants: submitted a rank order list
Does not double count if an applicant participates in first and second iterations

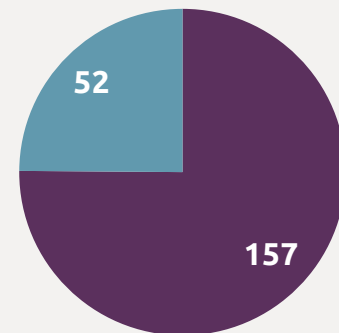
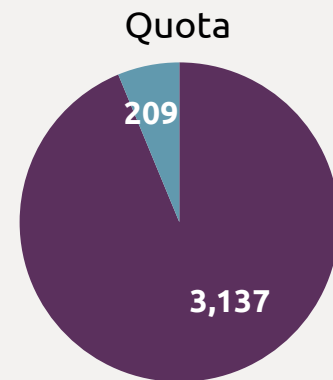
2019 R-1 match national highlights

First iteration

Applicant type	Current year graduates			Previous years graduates		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
CMG	2,700	94.5%	157	60	77.9%	17
USMG	18	56.3%	14	3	100.0%	0
IMG	117	50.0%	117	239	18.5%	1,051

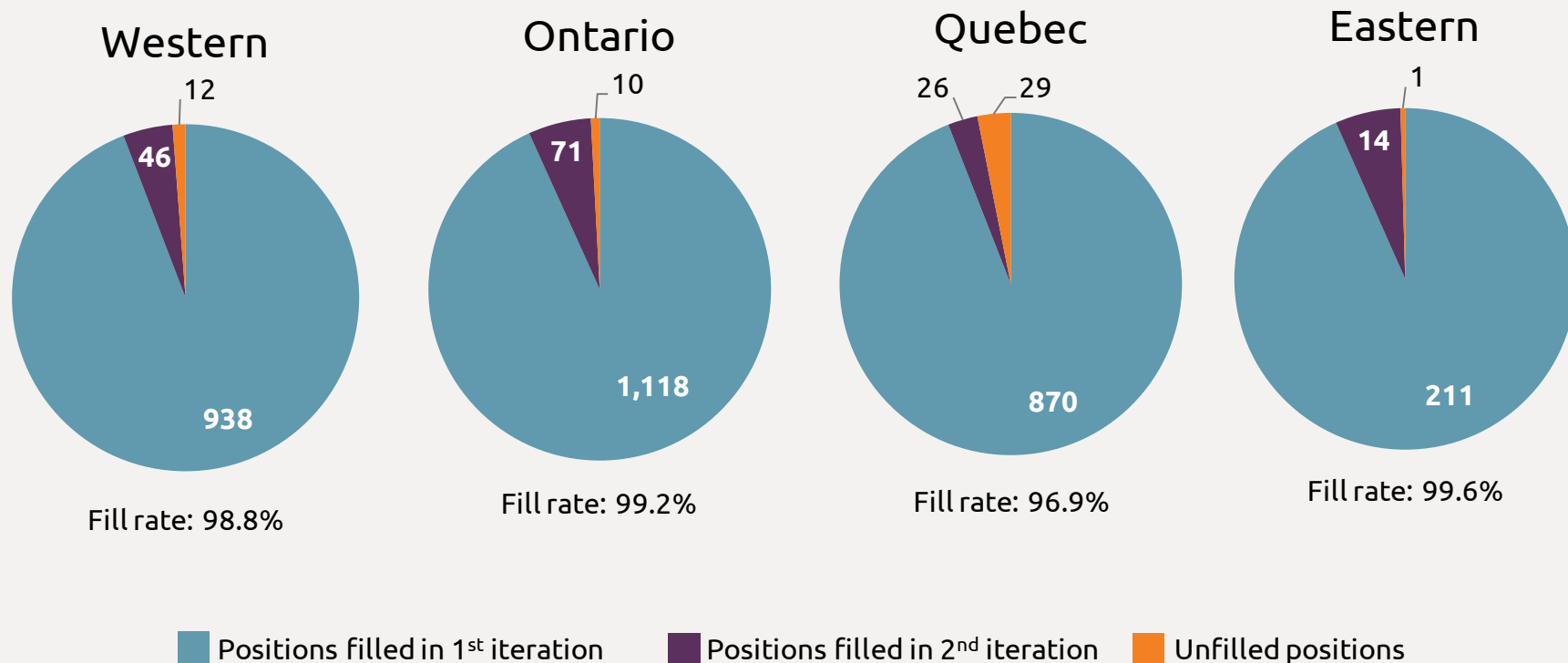
Second iteration

Applicant type	Current year graduates			Previous years graduates			
	Matched	% Matched	Unmatched	Matched without prior PG training	Matched with prior PG training	% Matched	Unmatched
CMG	92	74.8%	31	8	21	48.3%	31
USMG	1	50.0%	1	0	0	0.0%	1
IMG	10	12.8%	68	24	1	3.4%	705



■ Filled ■ Unfilled

2019 R-1 match regional highlights (program quota view)



2019 R-1 match regional highlights (CMG applicant view)

First iteration

Region	Current year graduates			Previous years graduates		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
Western	771	93.5%	54	12	66.7%	6
Ontario	907	96.3%	35	9	90.0%	1
Quebec	838	92.9%	64	35	79.5%	9
Eastern	184	97.9%	4	4	80.0%	1

Second iteration

Region	Current year graduates			Previous years graduates		
	Matched	% Matched	Unmatched	Matched	% Matched	Unmatched
Western	37	72.5%	14	9	32.1%	19
Ontario	24	77.4%	7	12	85.7%	2
Quebec	30	81.1%	7	5	41.7%	7
Eastern	1	25.0%	3	3	50.0%	3

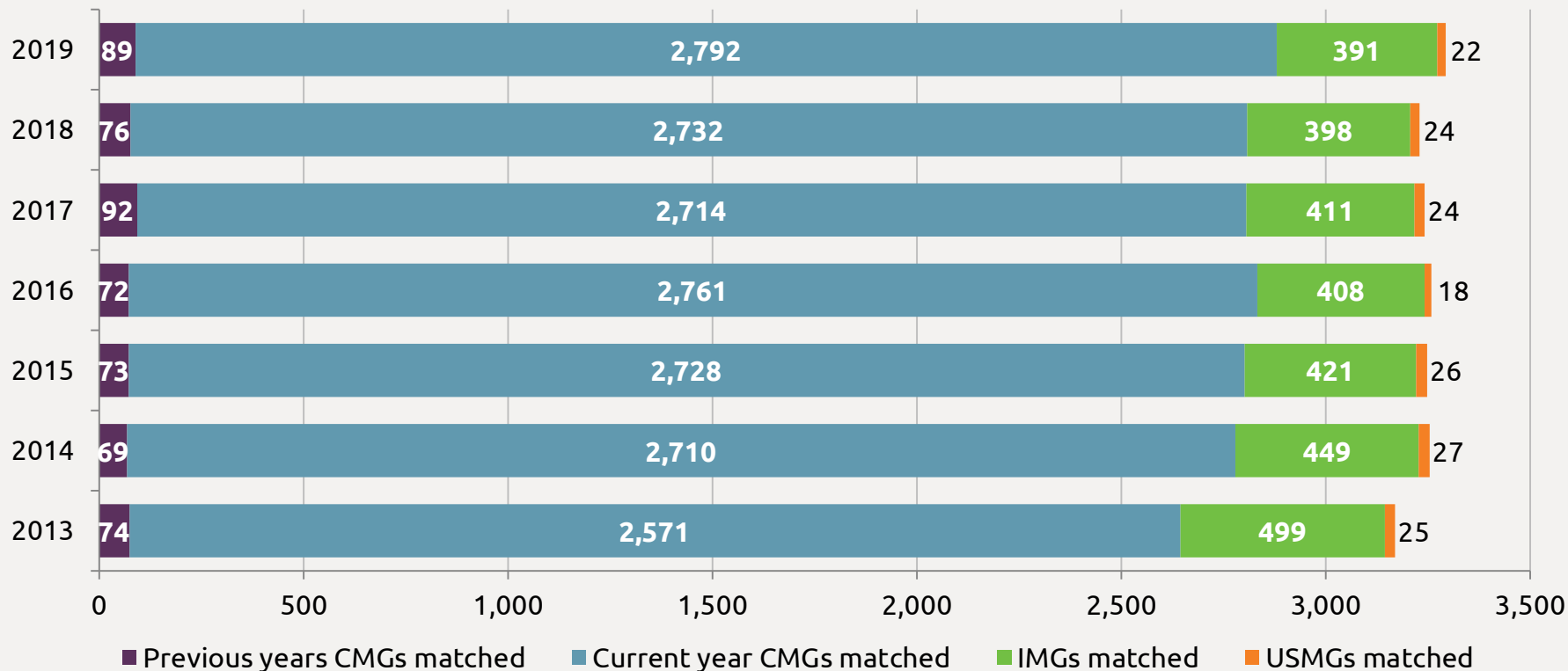
Unmatched current year CMGs after second iteration

	2019	2018
National	1.1%	2.4%
Western	1.7%	2.8%
Ontario	0.7%	3.2%
Quebec	0.8%	1.4%
Eastern	1.6%	1.6%

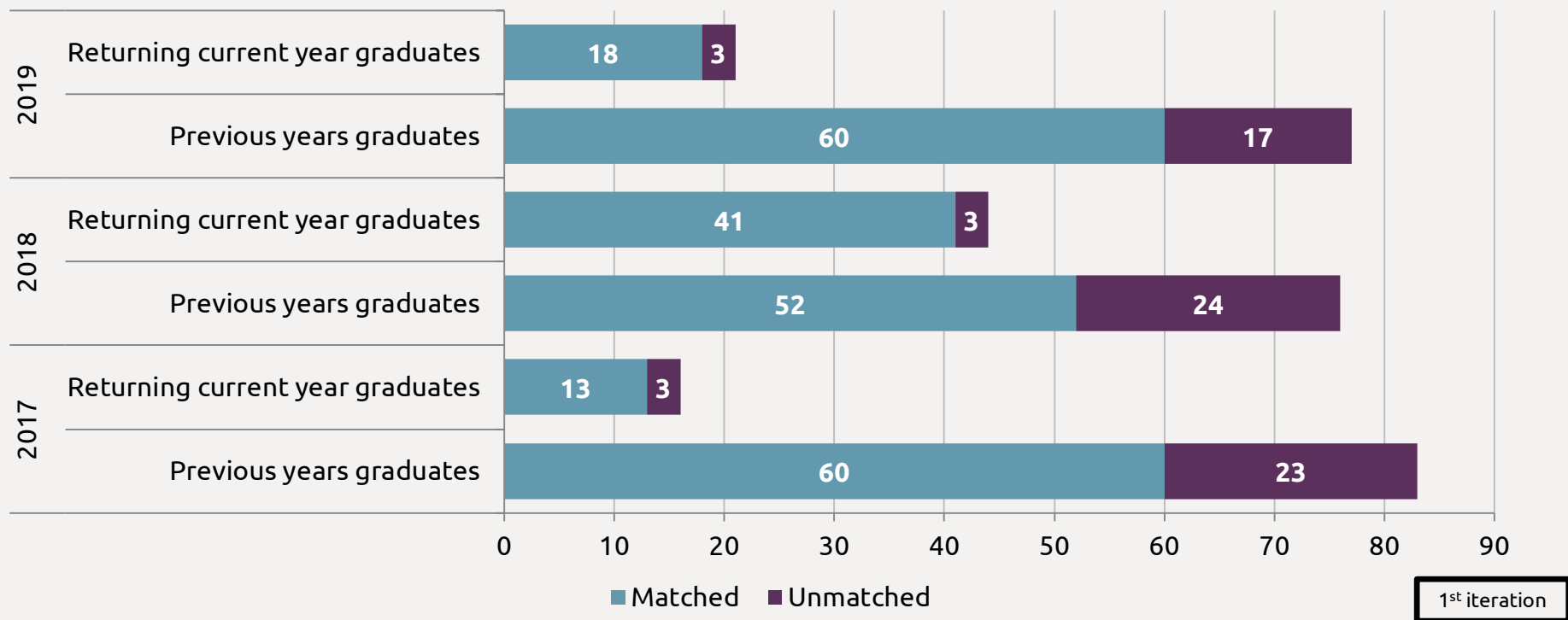
Regional IMG match results

Region	Final participation			% matched		
	2017	2018	2019	2017	2018	2019
Africa	247	252	255	13%	15%	11%
Asia	377	363	299	15%	13%	16%
Central America/Caribbean	389	373	369	20%	18%	22%
Europe	421	415	460	37%	41%	37%
Mexico	6	4	5	17%	0%	20%
Middle East	269	272	266	18%	16%	16%
Oceania/Pacific Islands	61	34	35	46%	53%	46%
South America	41	45	36	22%	24%	11%

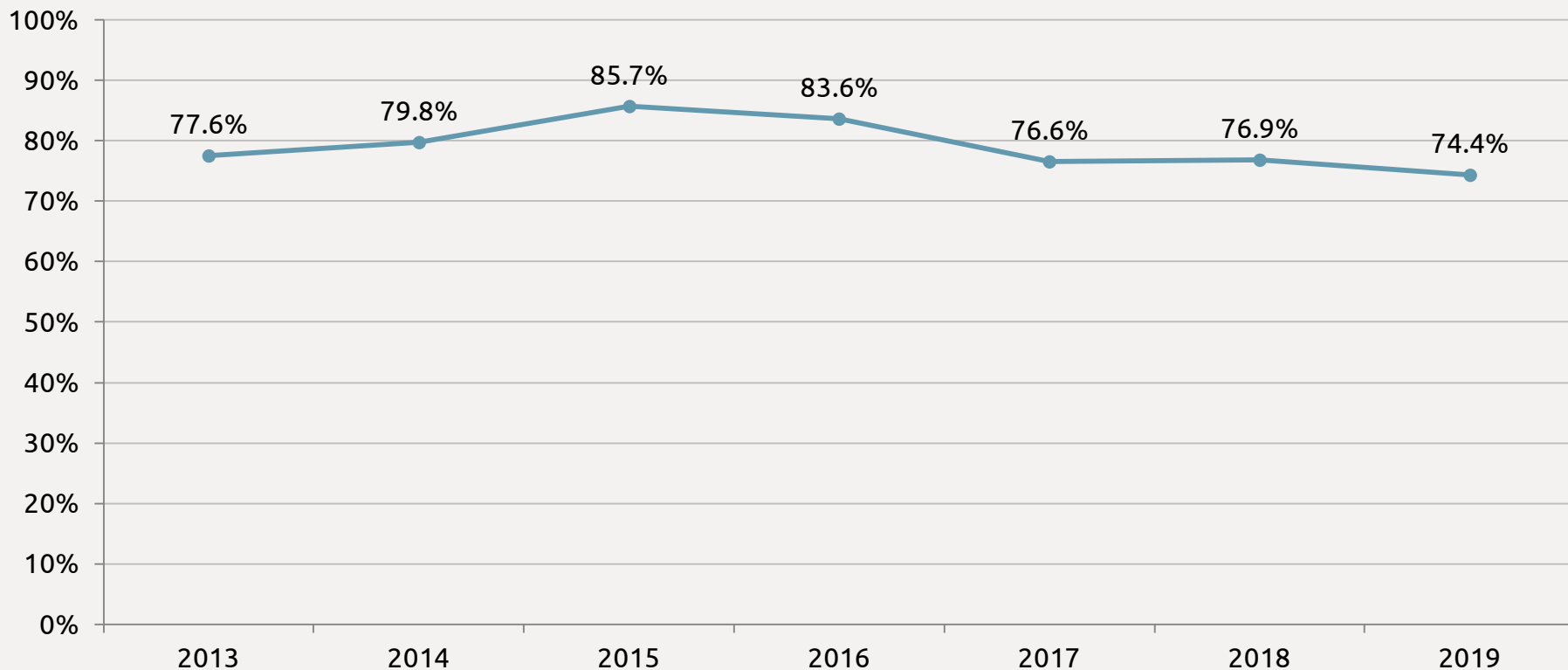
Who entered postgraduate training in Canada



Previously unmatched CMGs participating in first iteration

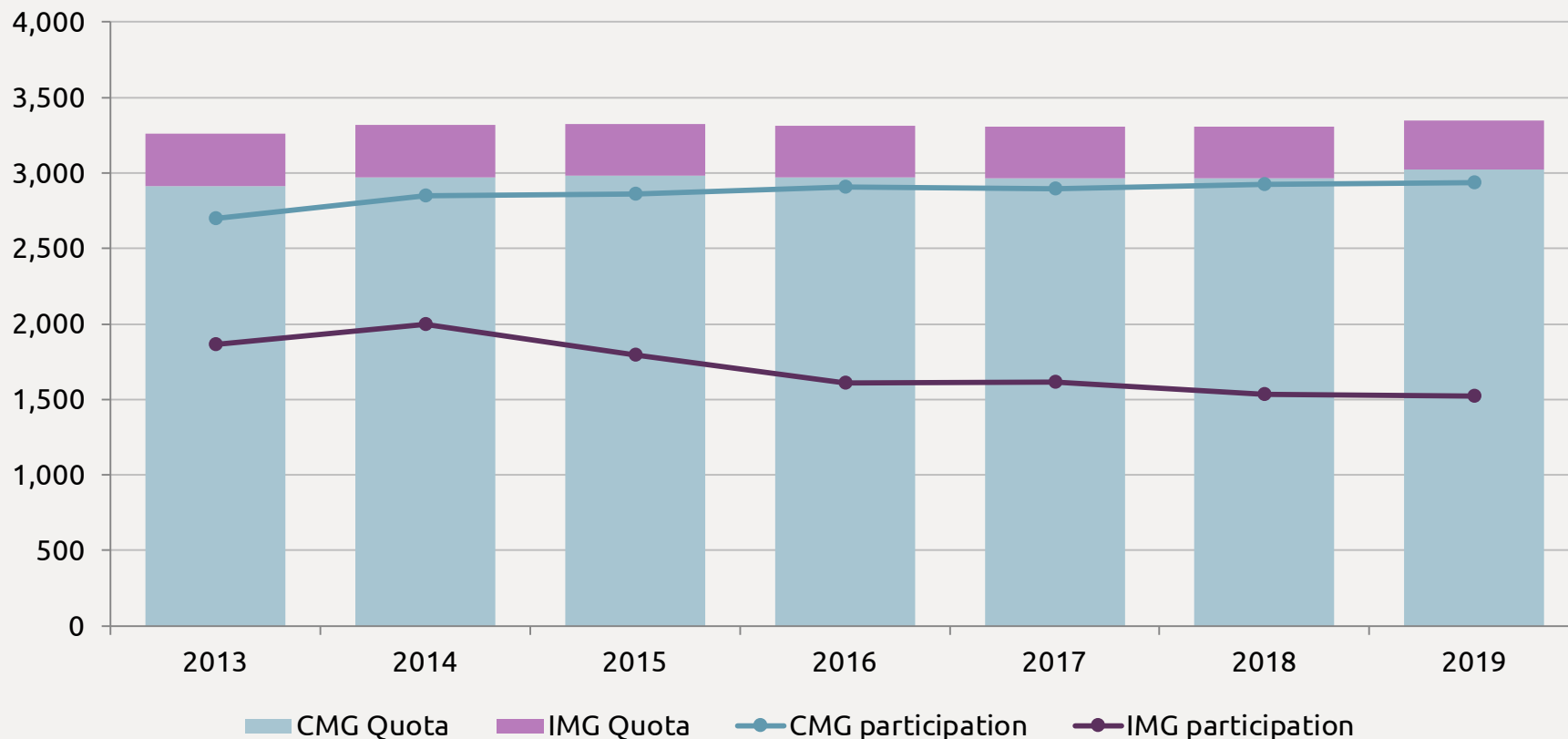


Proportion of active IMGs submitting ROLs

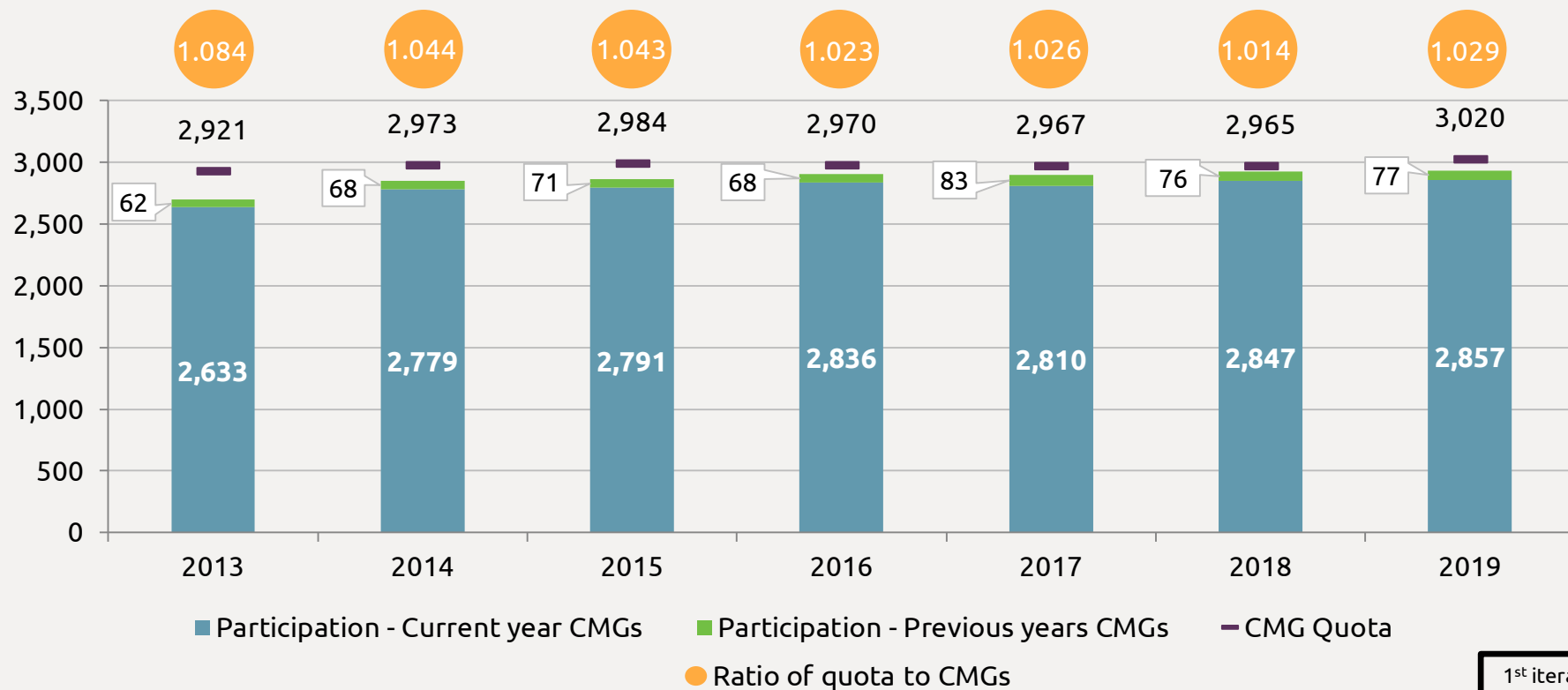


Opportunities,
participation & choices

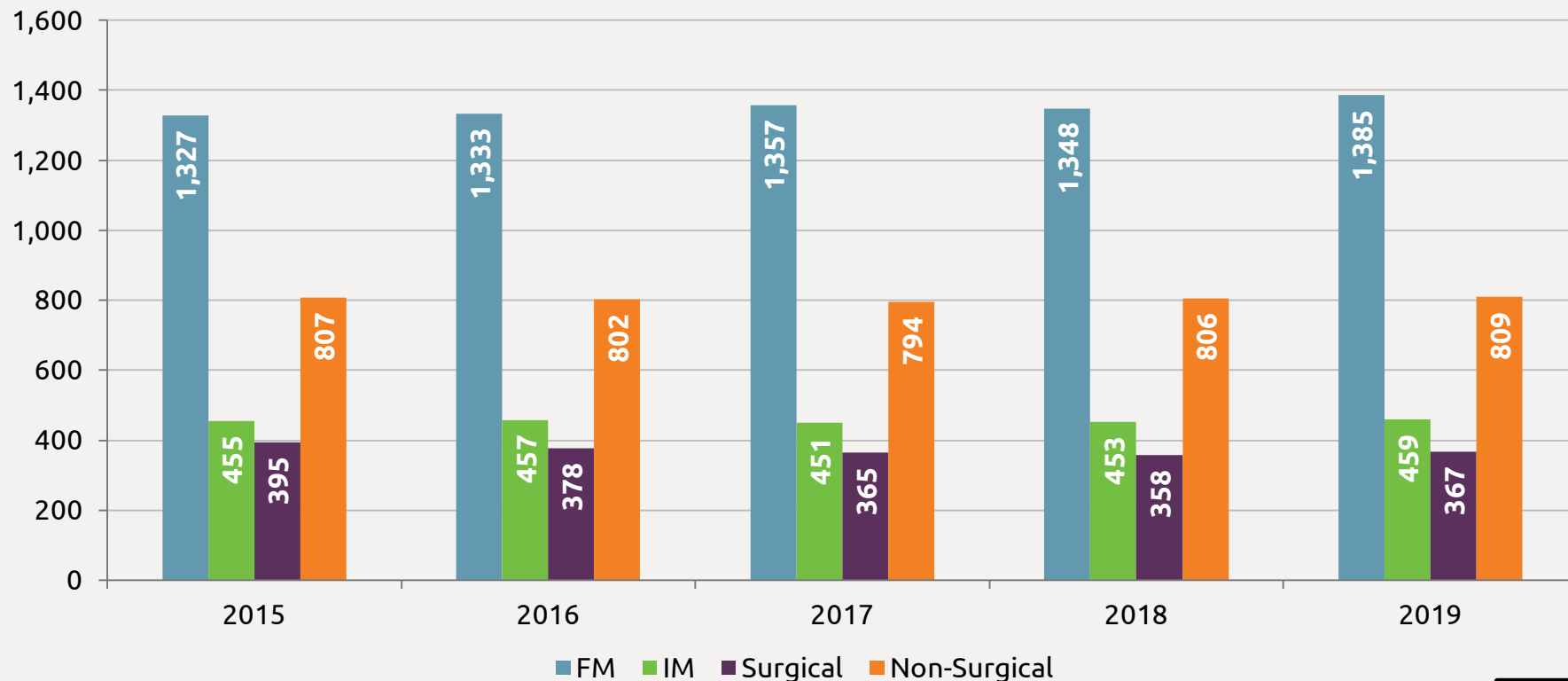
First iteration participation and quota



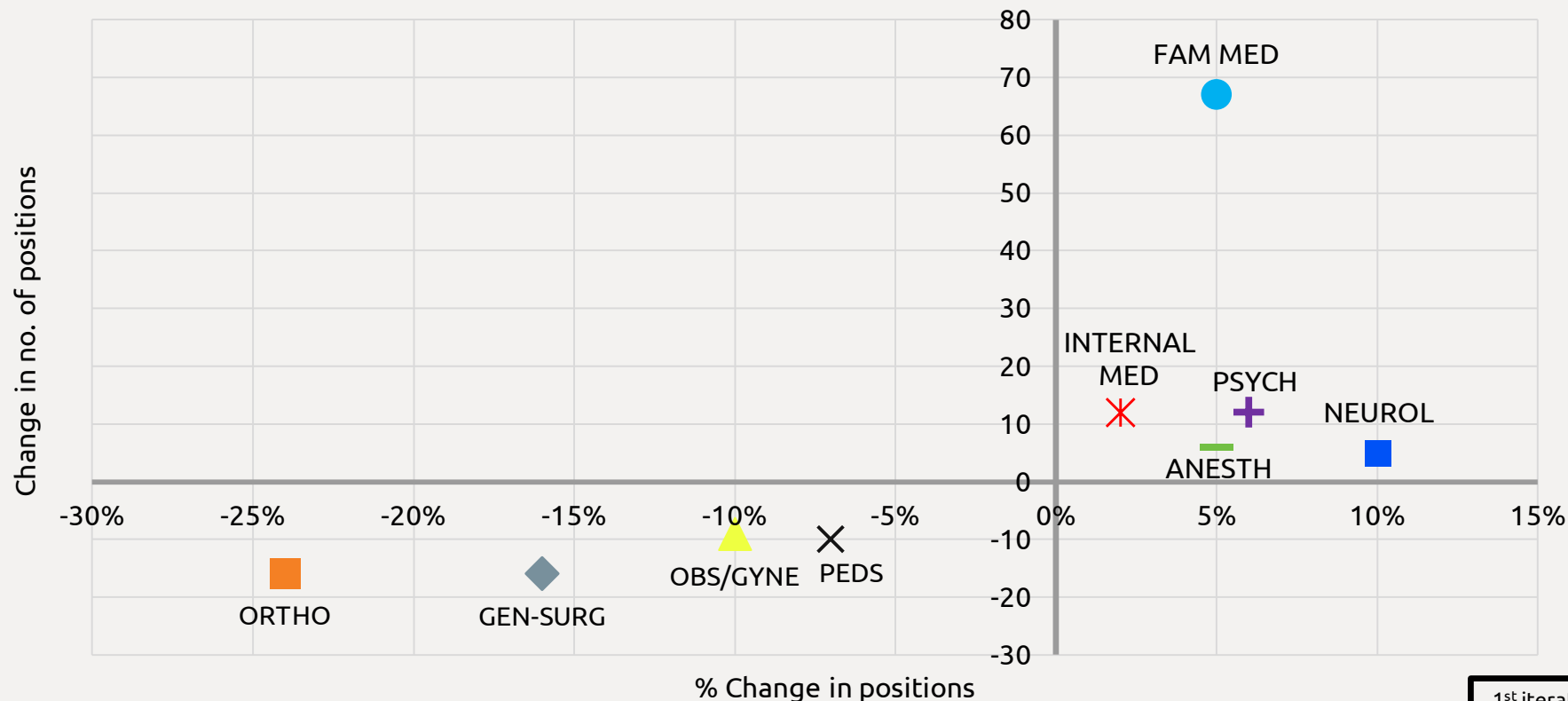
CMG quota, participation and ratio



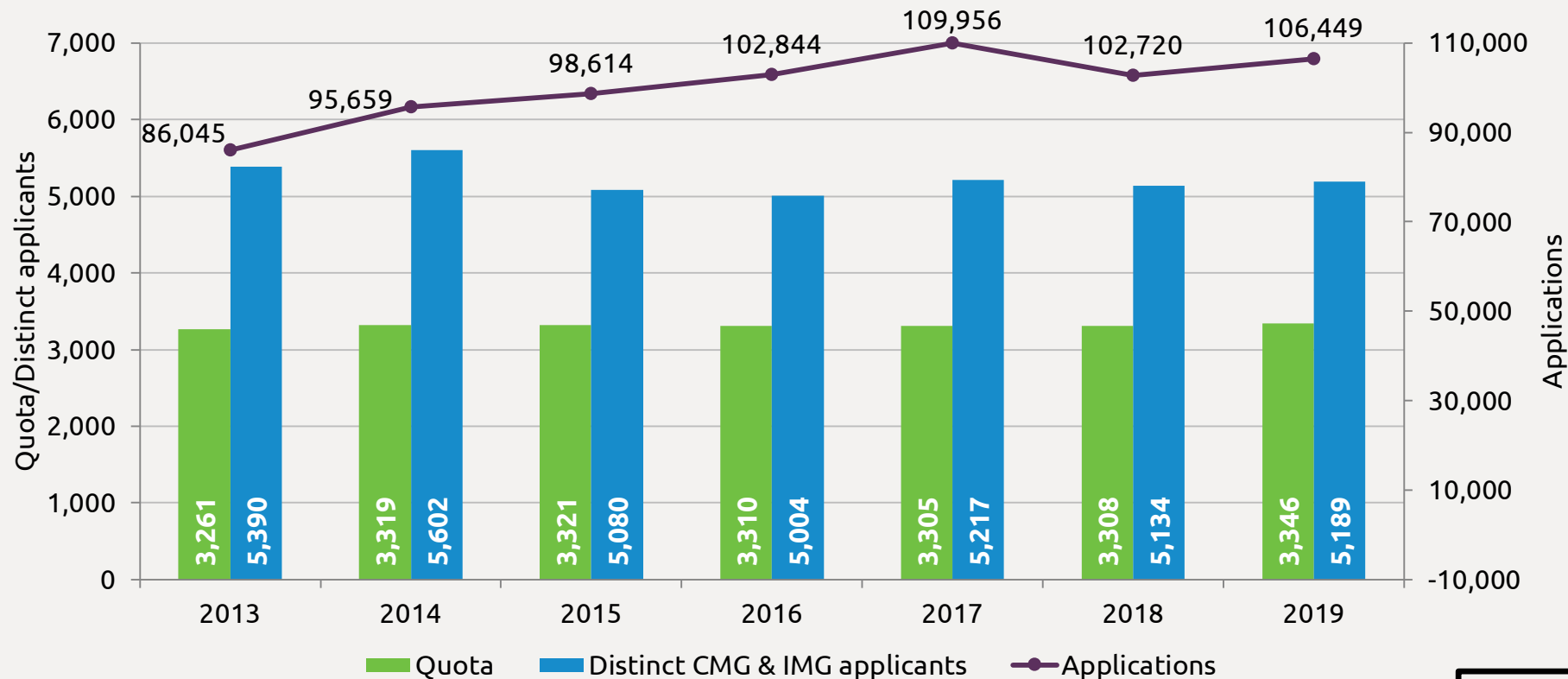
Positions offered for CMGs, by discipline group



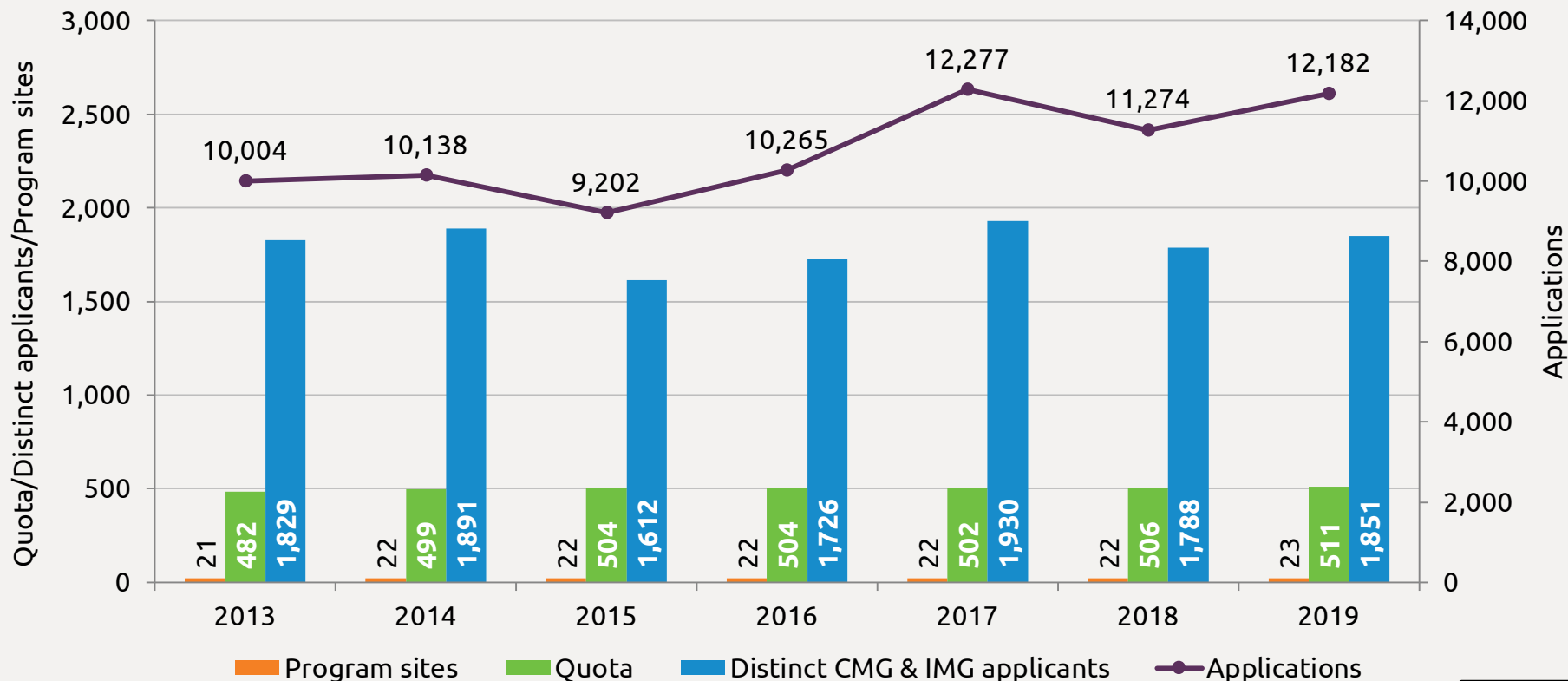
Change in discipline quota, 2014 vs 2019



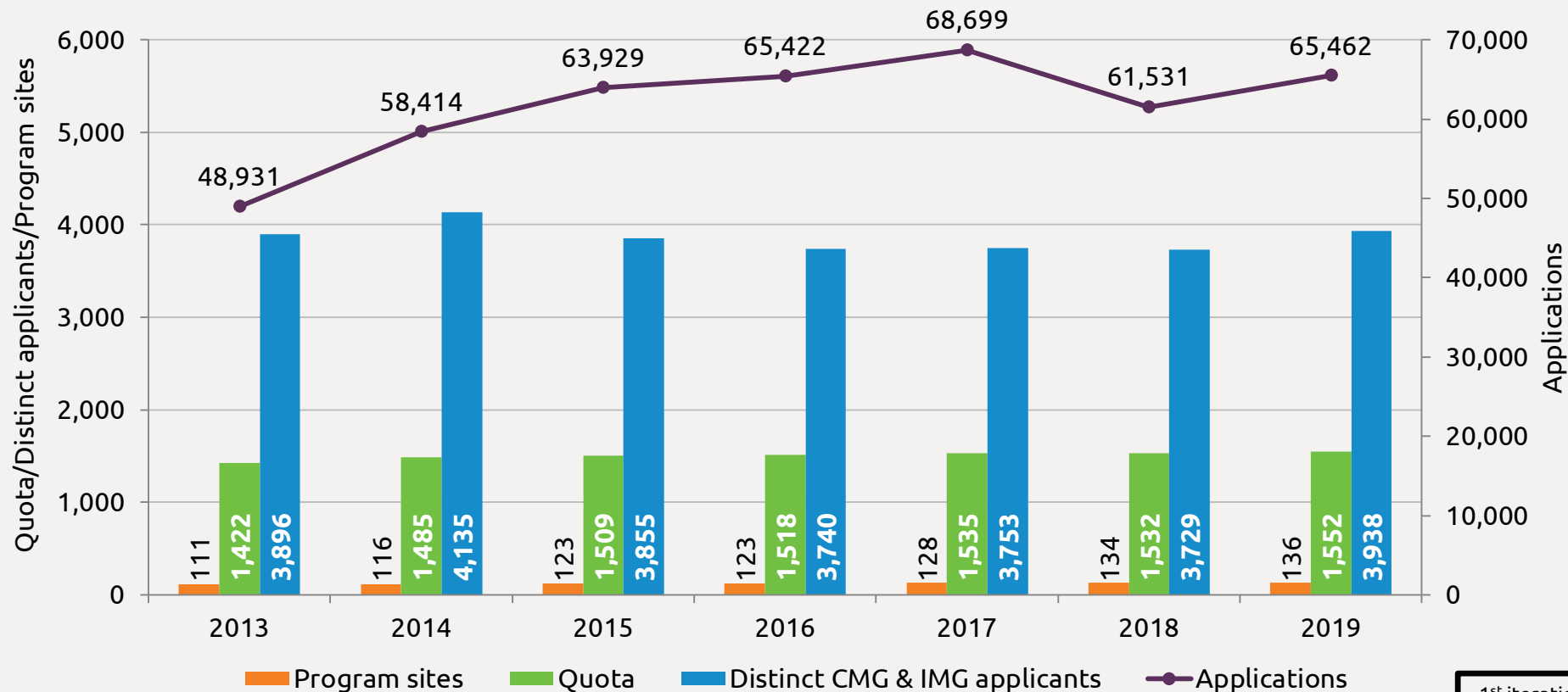
Program applications: all disciplines



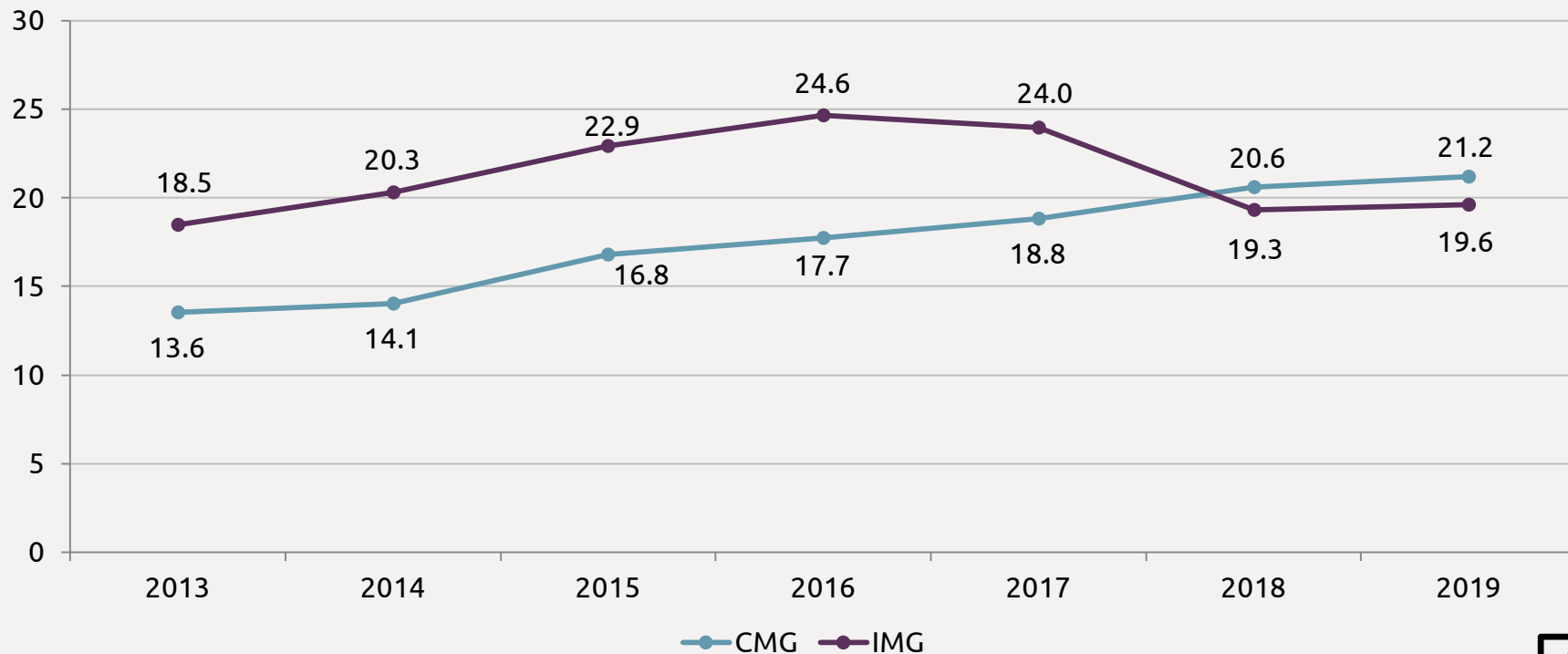
Program applications: Internal Medicine



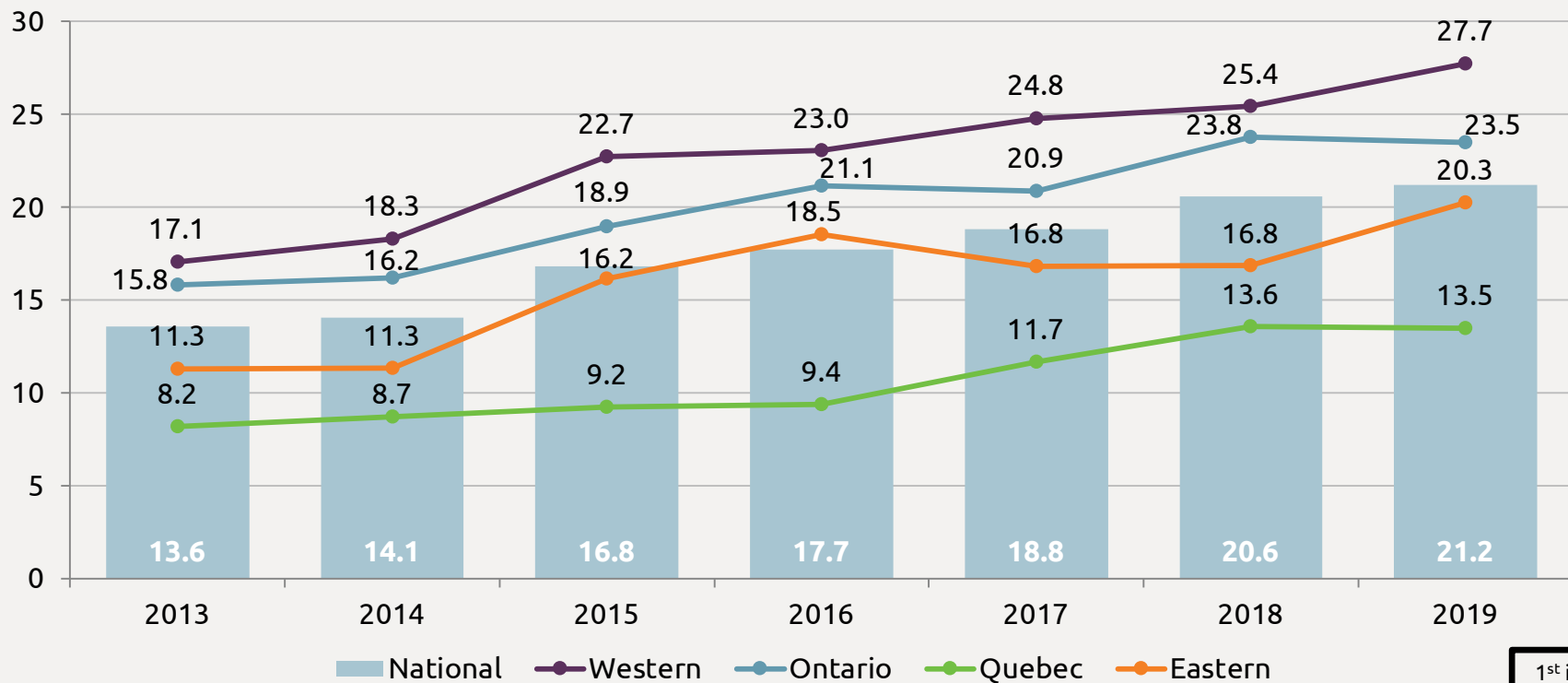
Program applications: Family Medicine



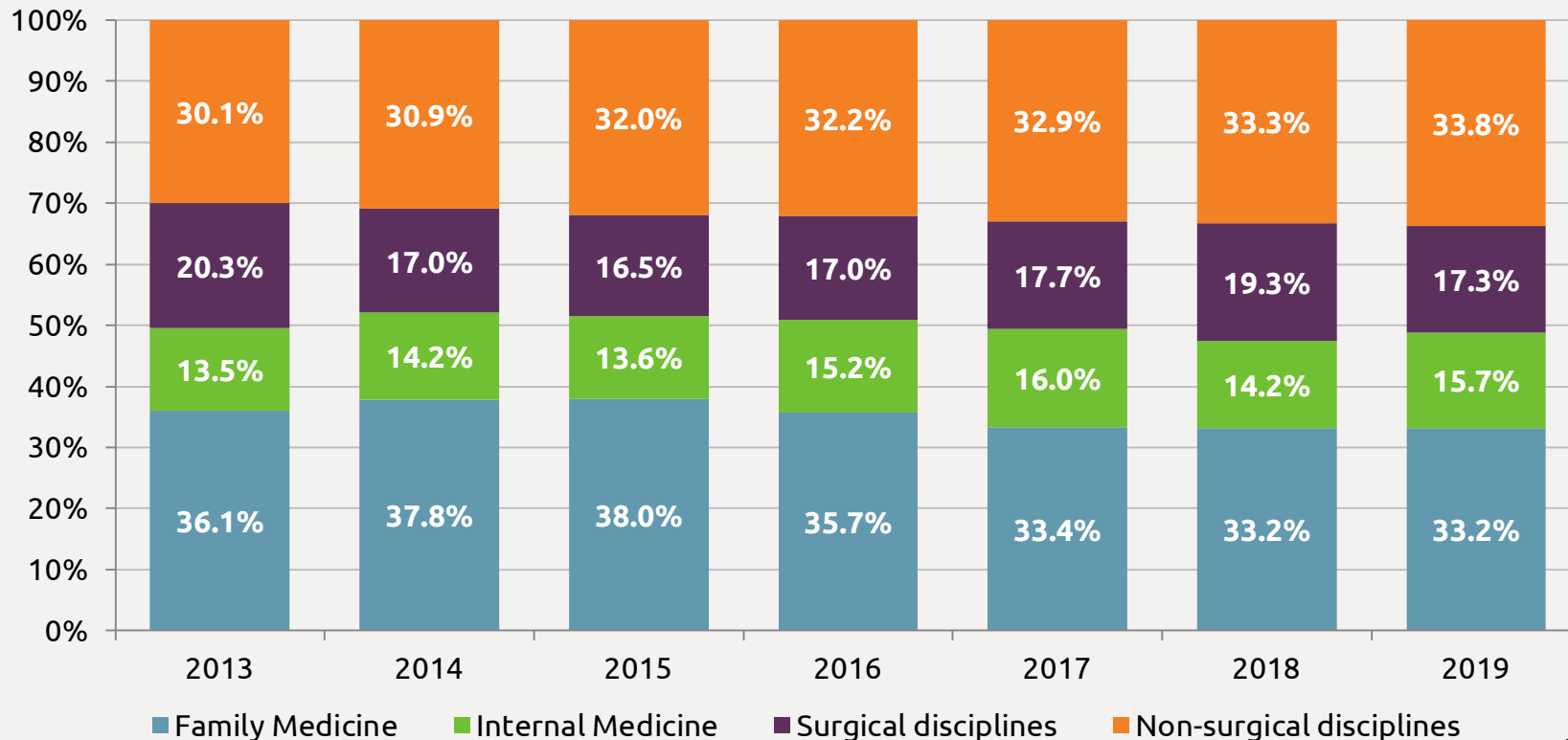
Average number of CMG and IMG program applications



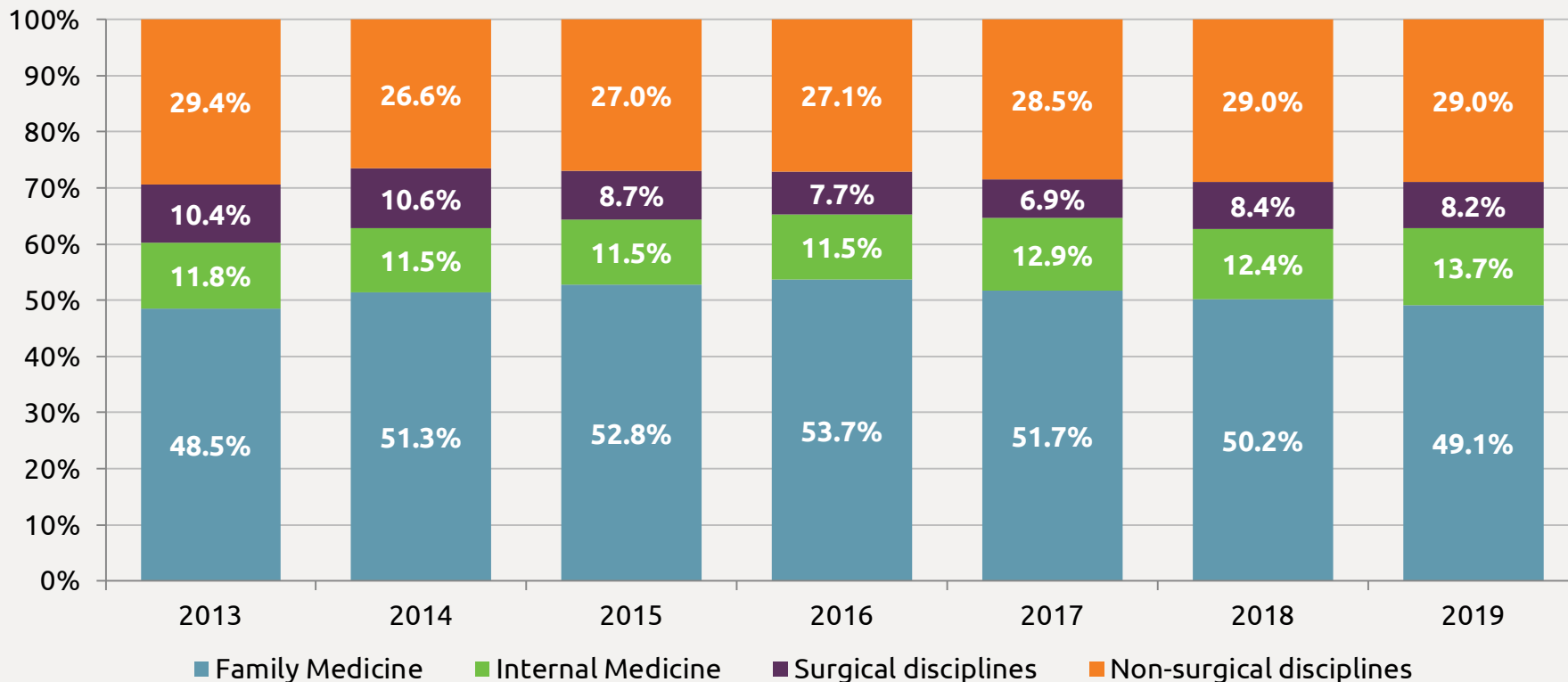
Average number of CMG program applications, by region



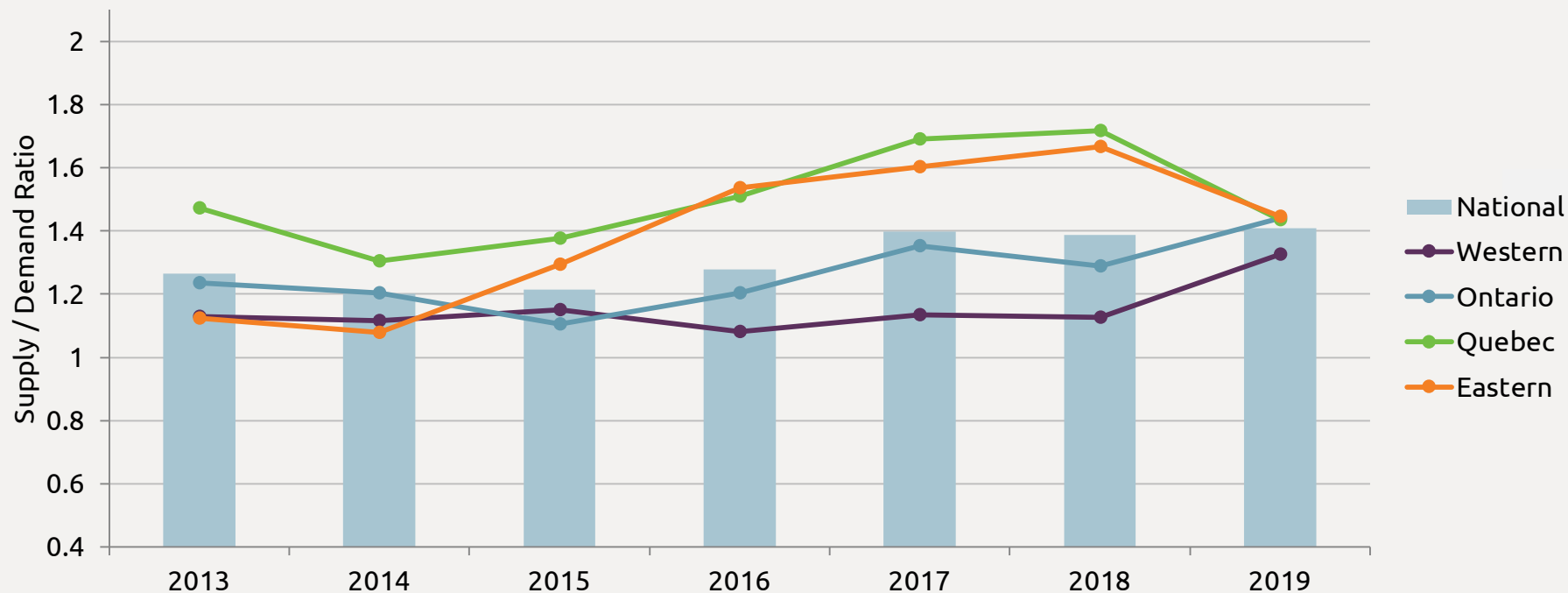
CMG discipline choices



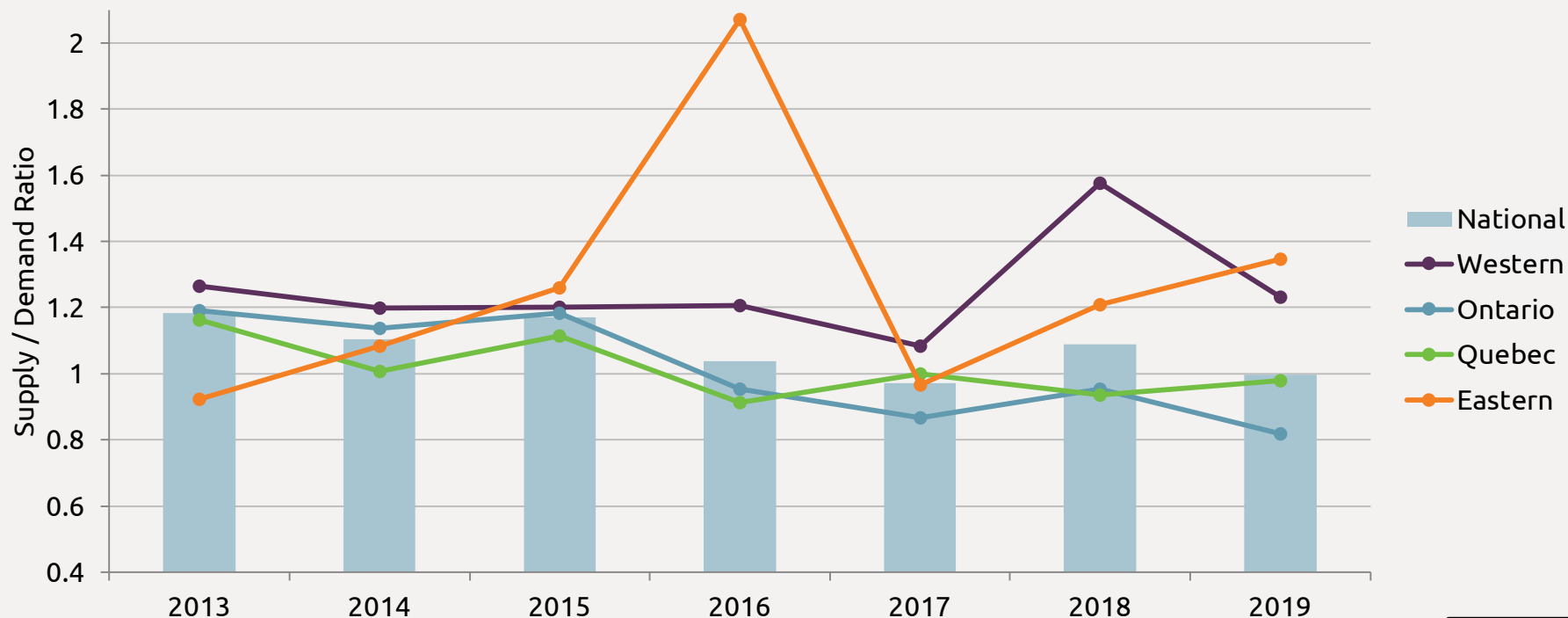
IMG discipline choices



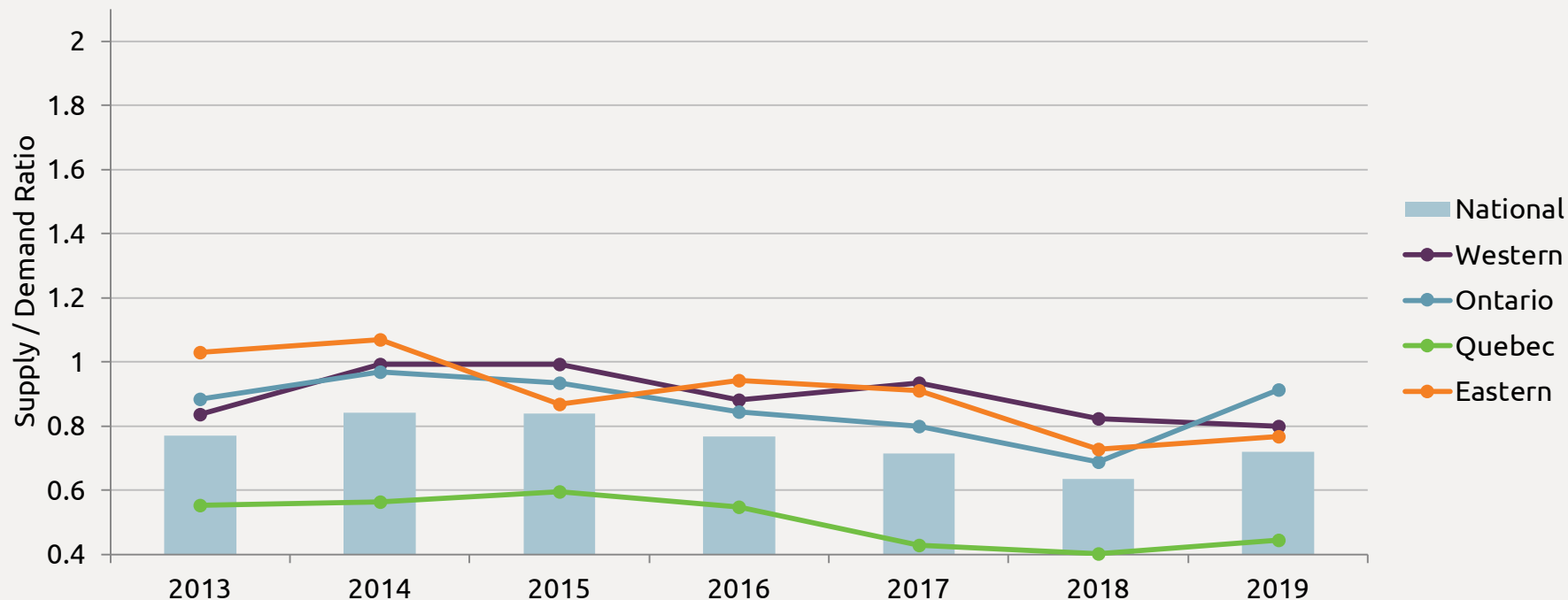
Supply & demand ratio: CMG quota for Family Medicine



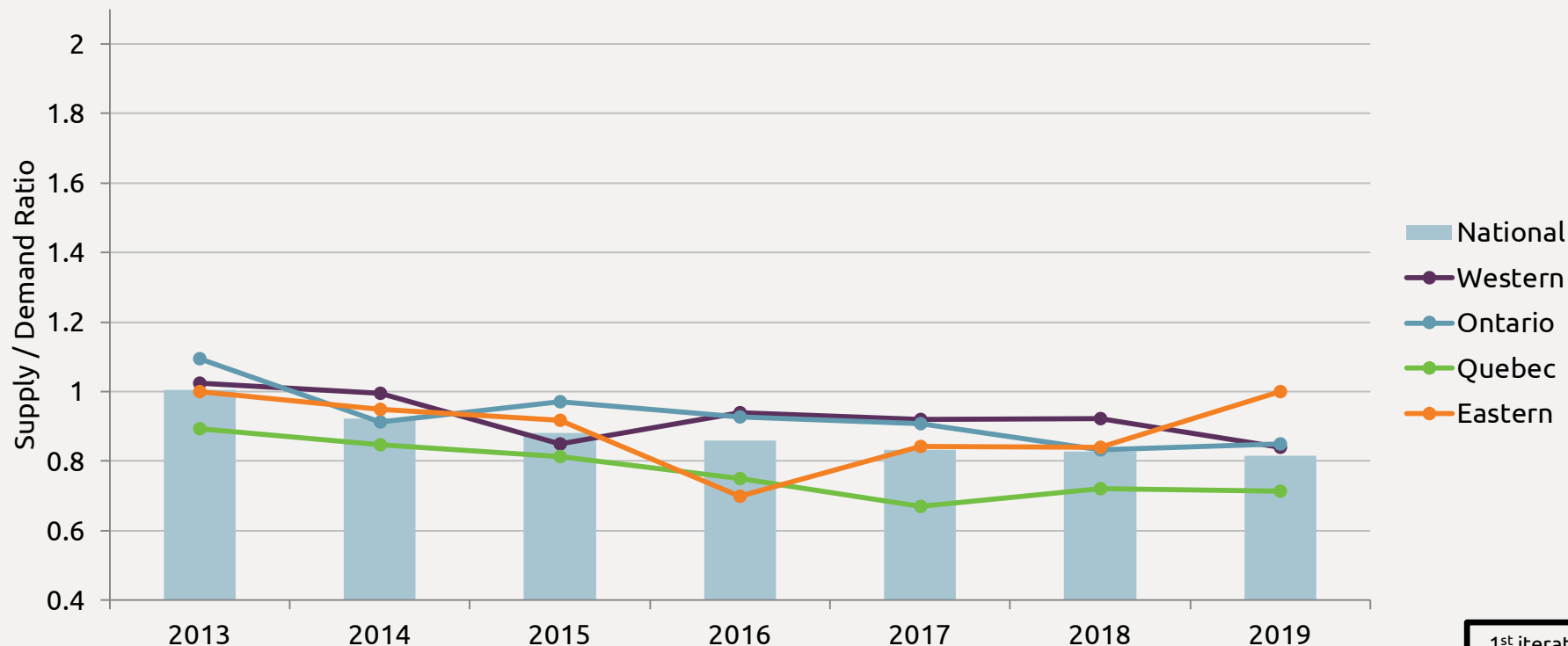
Supply & demand ratio: CMG quota for Internal Medicine



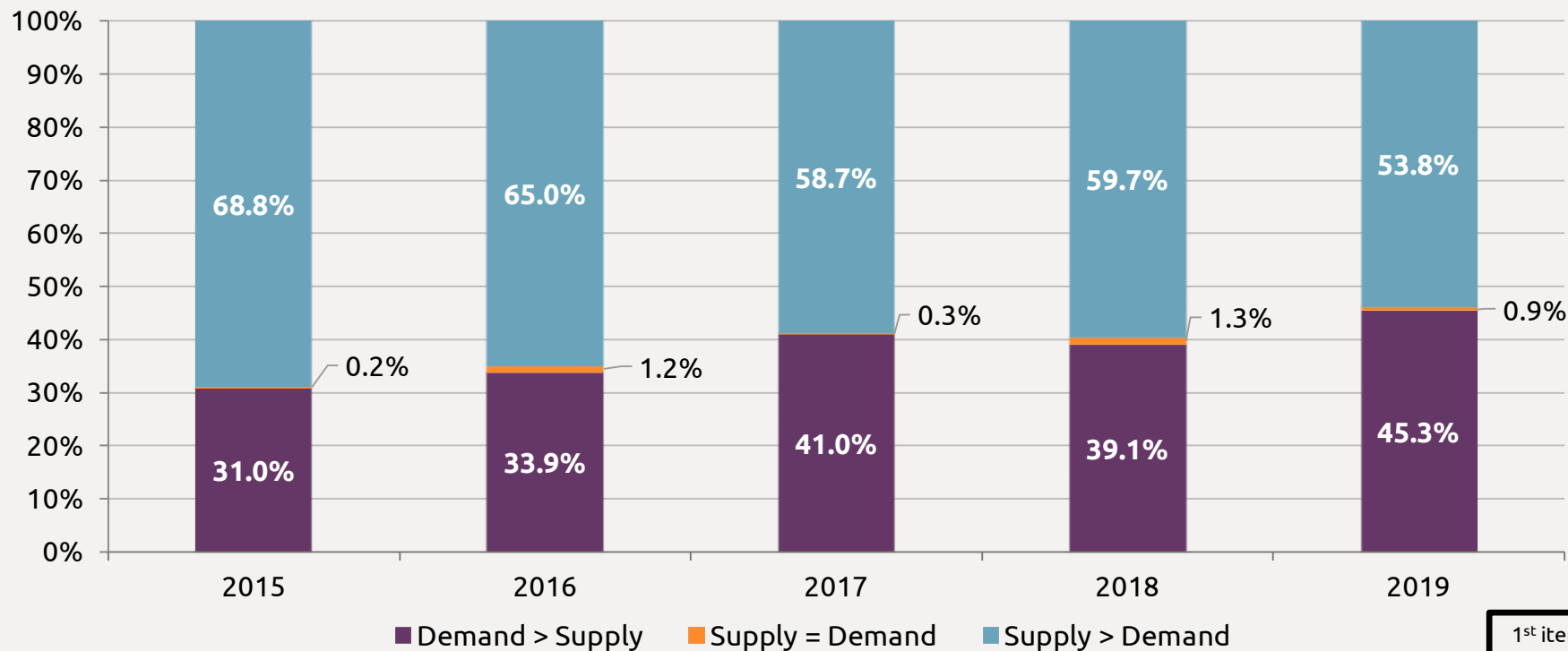
Supply & demand ratio: CMG quota for surgical disciplines



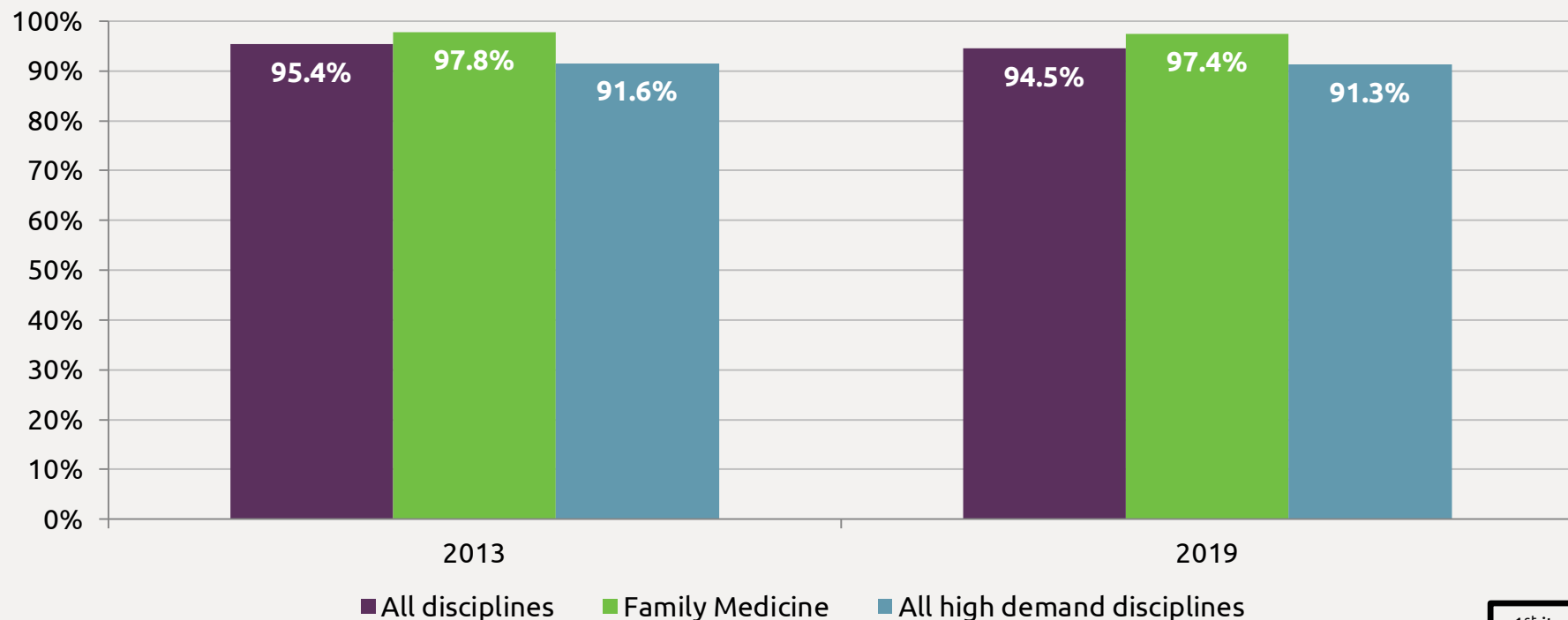
Supply & demand ratio: CMG quota for non-surgical disciplines



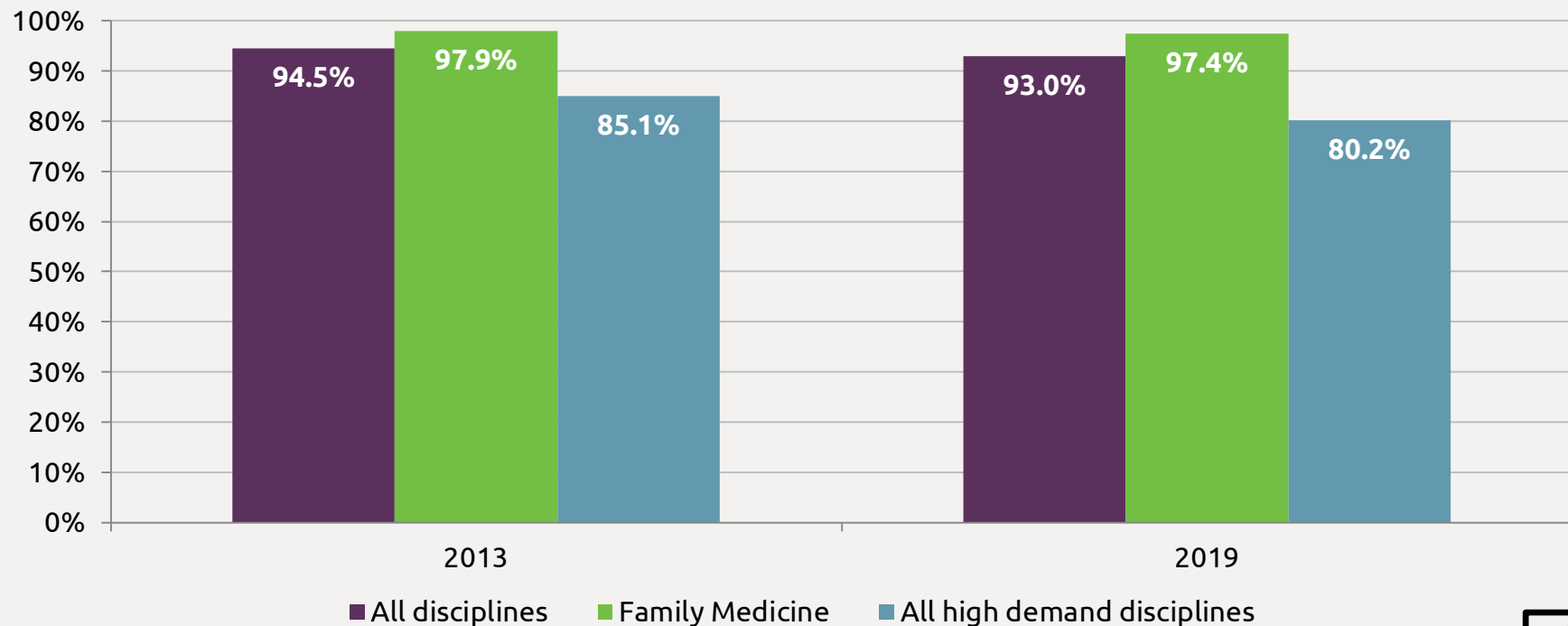
CMG first choice interest by supply and demand categorization of first choice discipline



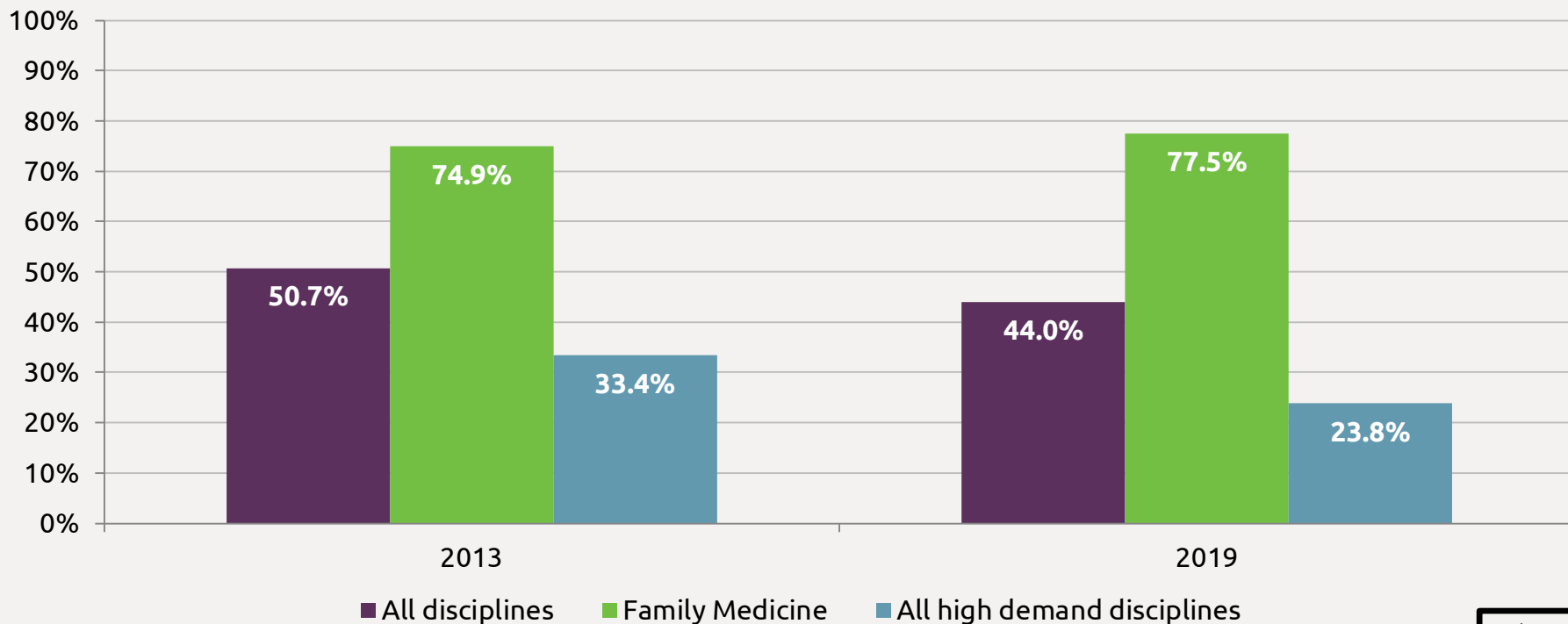
Overall match rate of current year CMGs by first choice discipline categorization



Match rate of current year CMGs ranking only one discipline

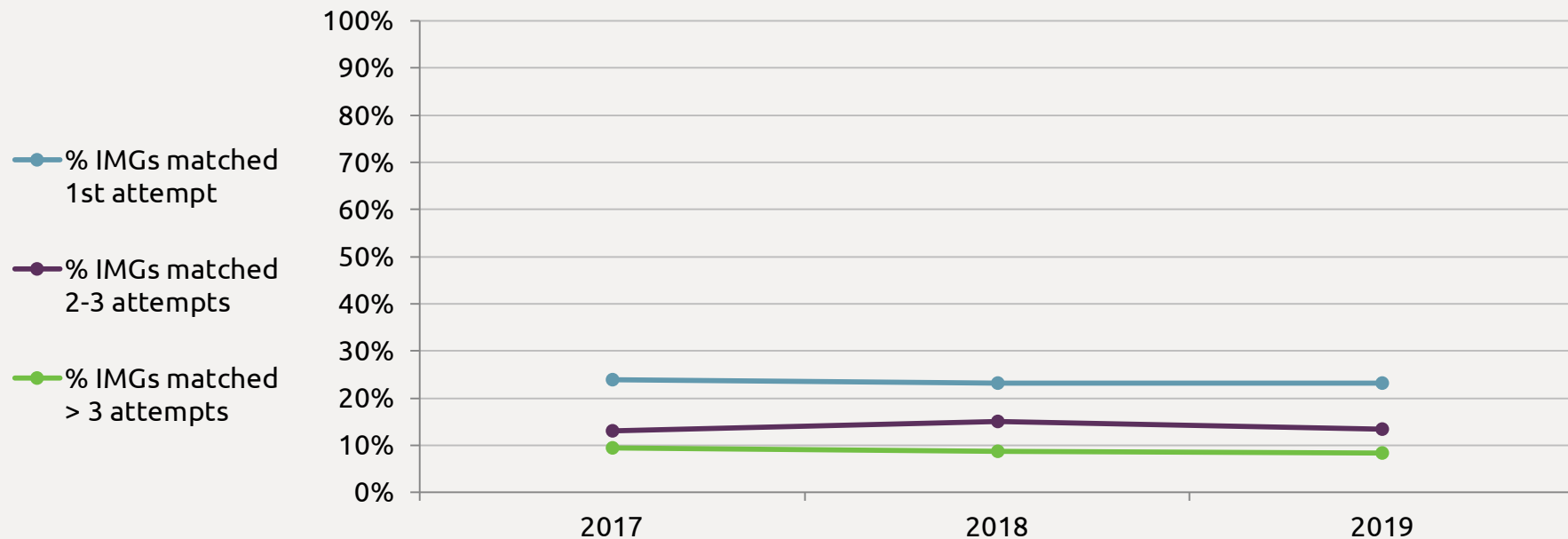


Proportions of current year CMGs ranking only one discipline



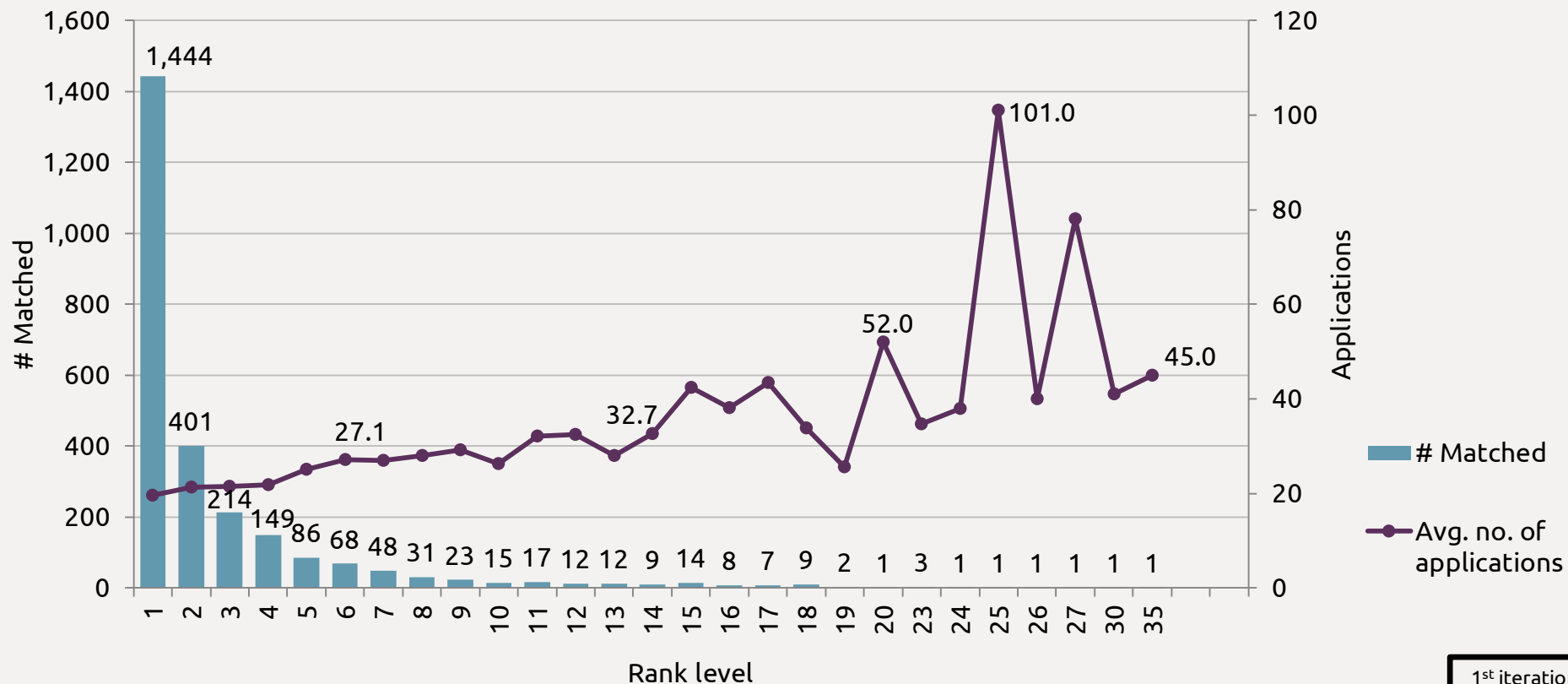
Detailed outcomes

IMGs matched, by years of match participation

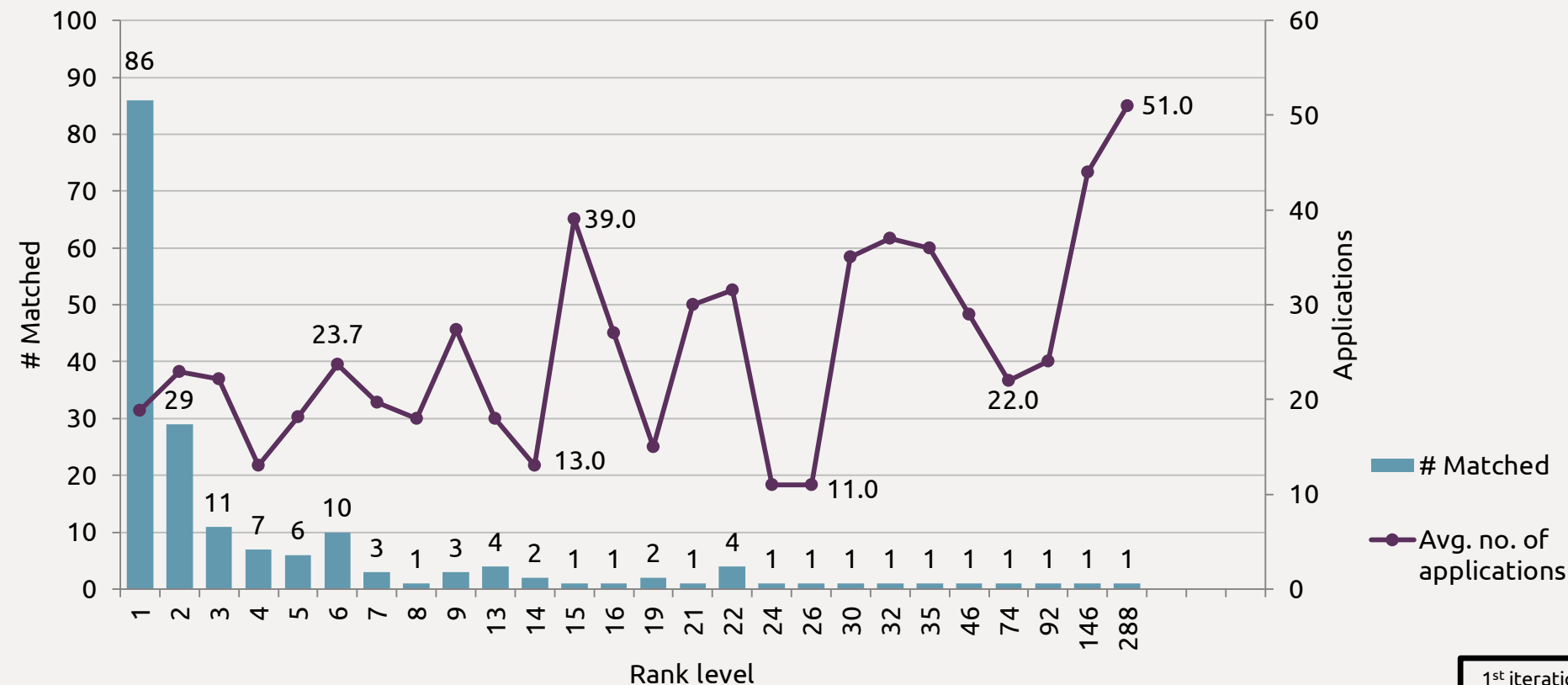


IMGs matched 1st attempt	261	237	244
IMGs matched 2 – 3 attempts	108	120	110
IMGs matched > 3 attempts	42	41	37

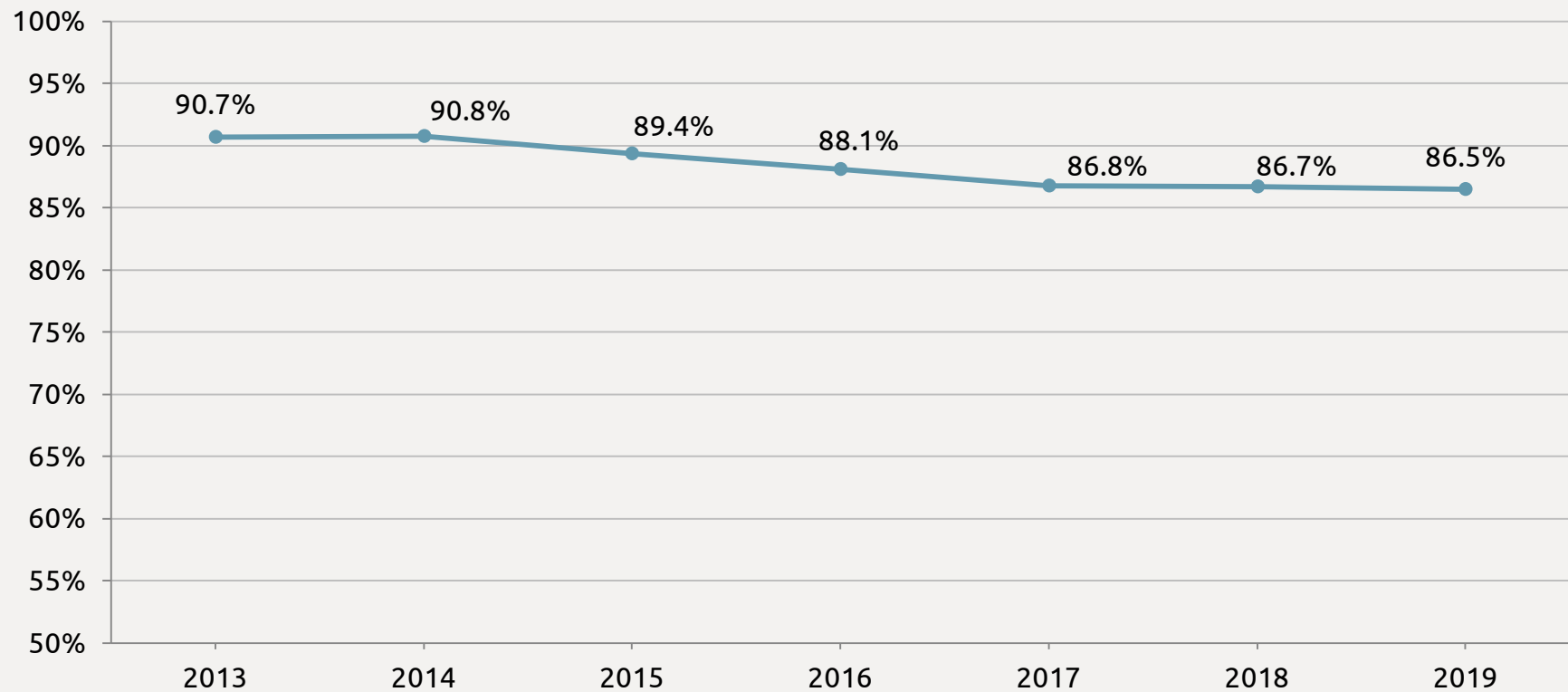
2019 CMG individual matched rank results



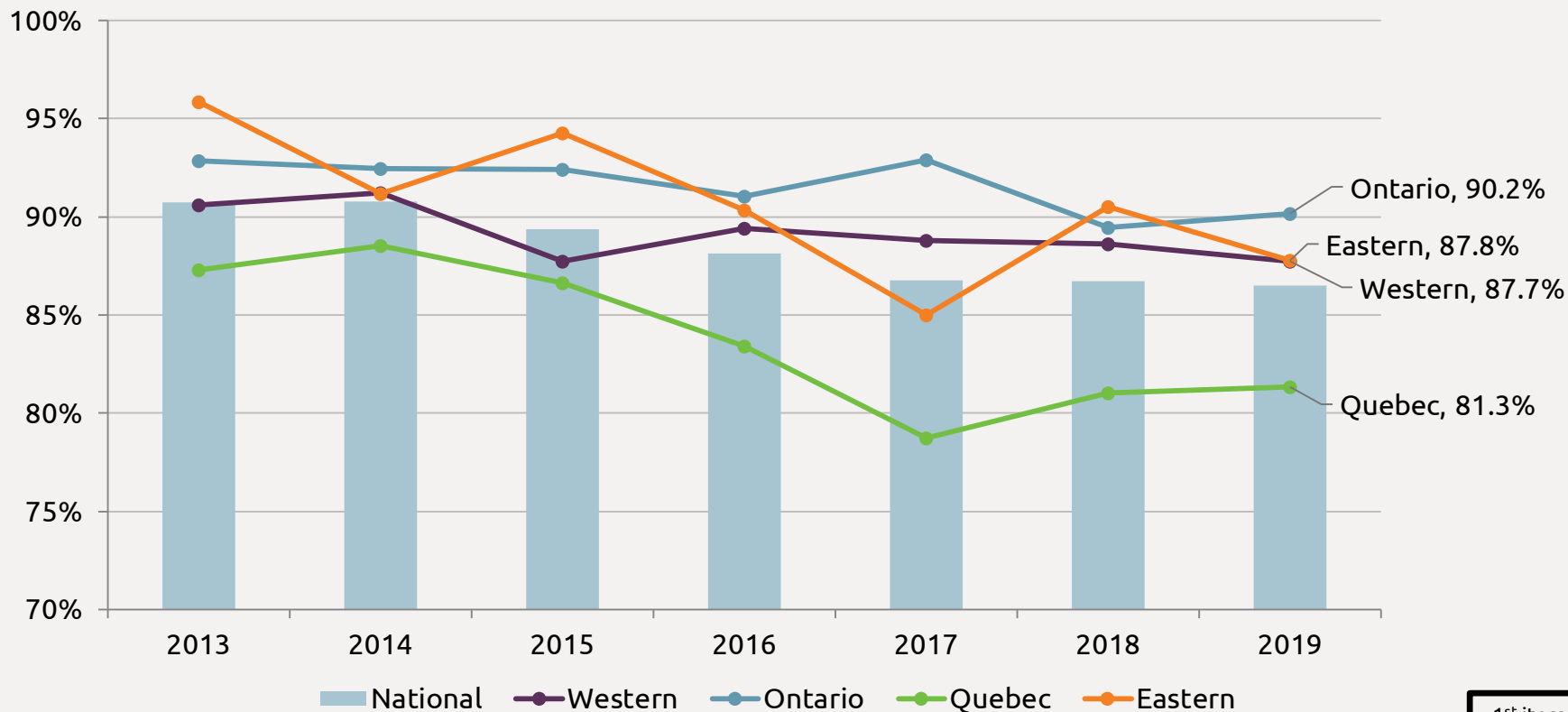
2019 CMG couples matched rank results



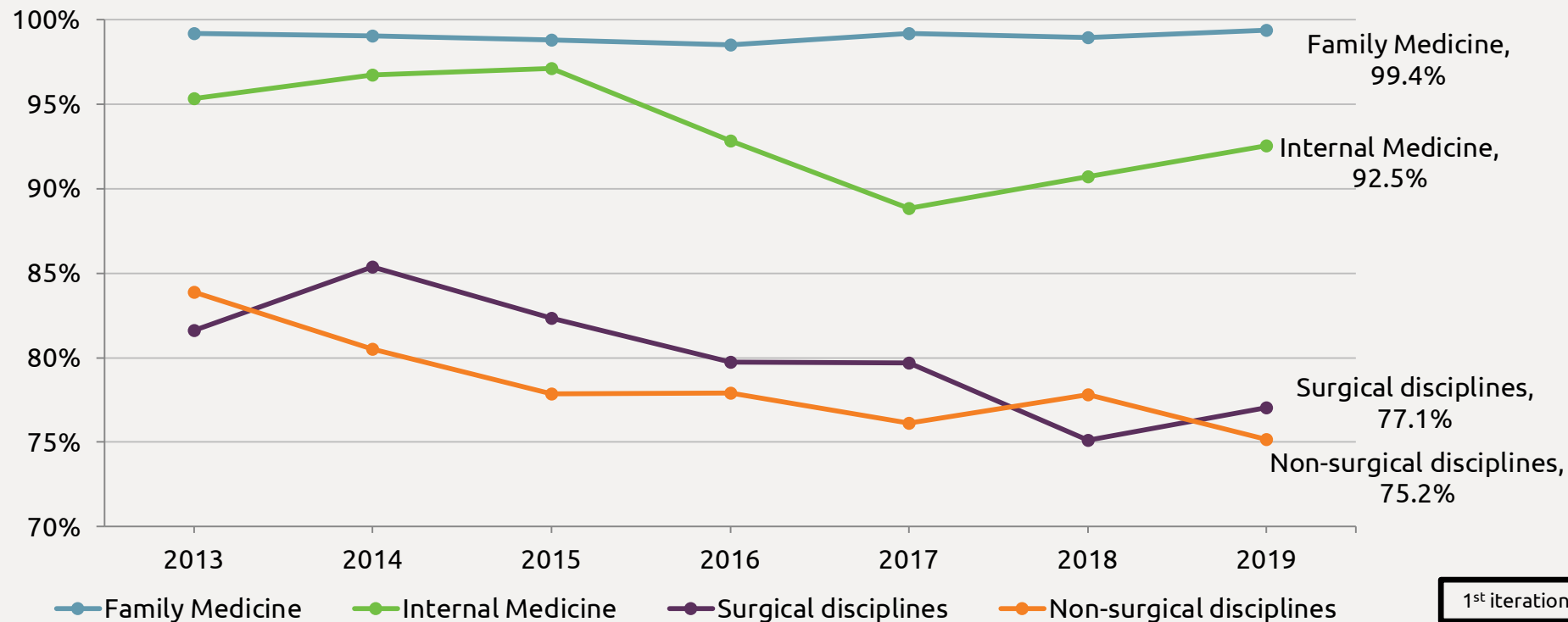
CMGs matched to first choice discipline



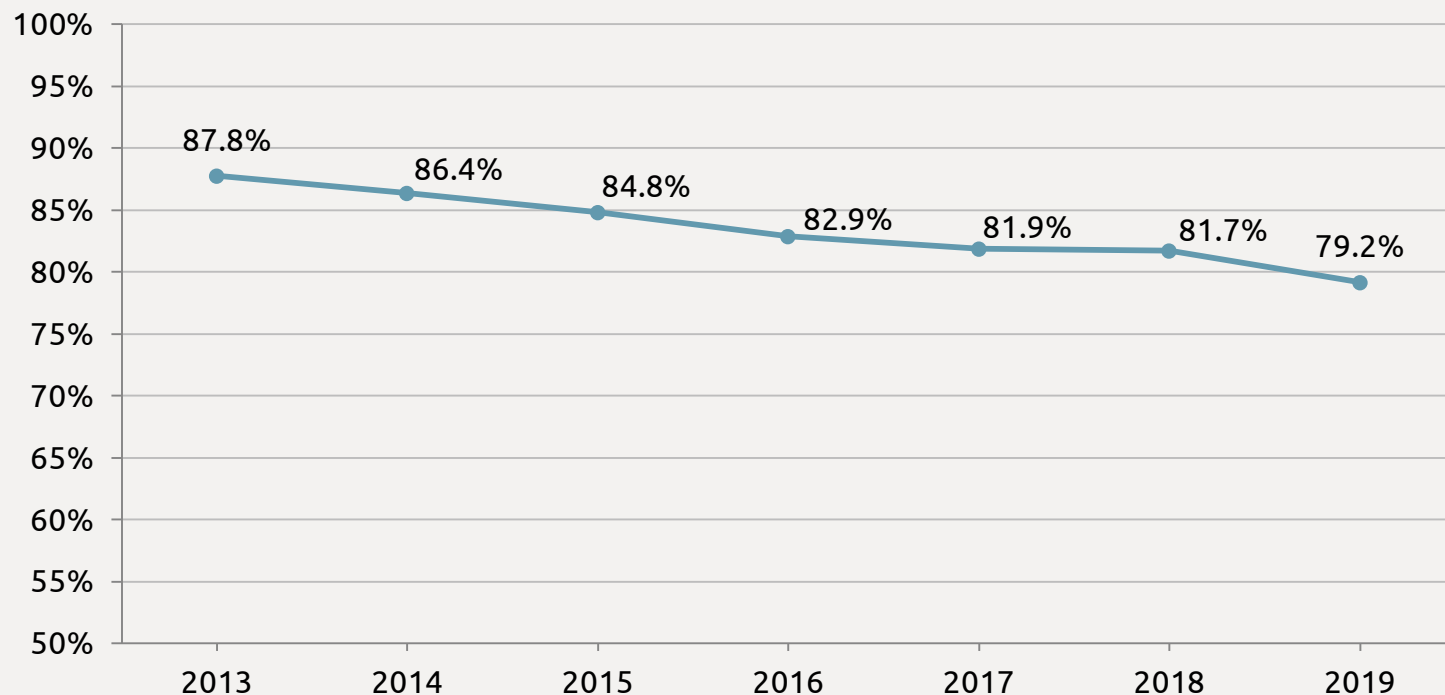
CMGs matched to first choice discipline, by region



CMGs matched to first choice discipline, by discipline group

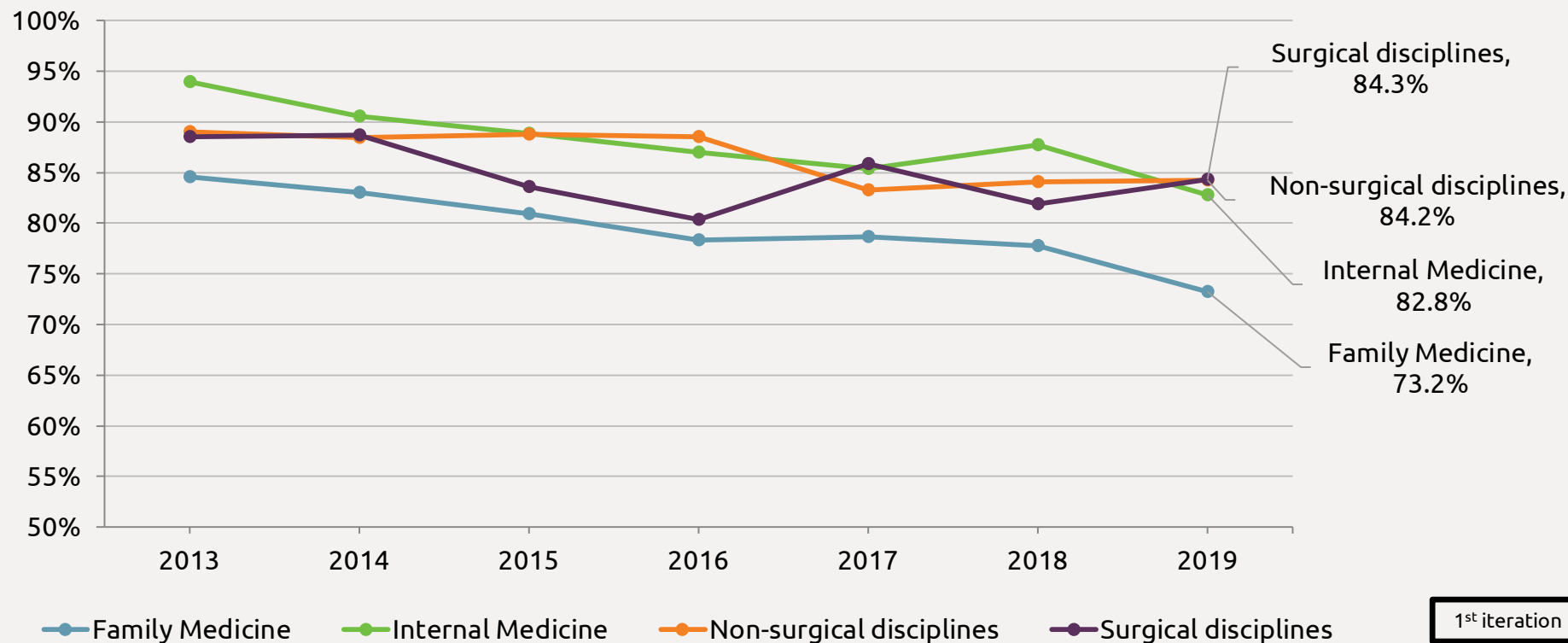


CMGs matched to one of their top three program choices

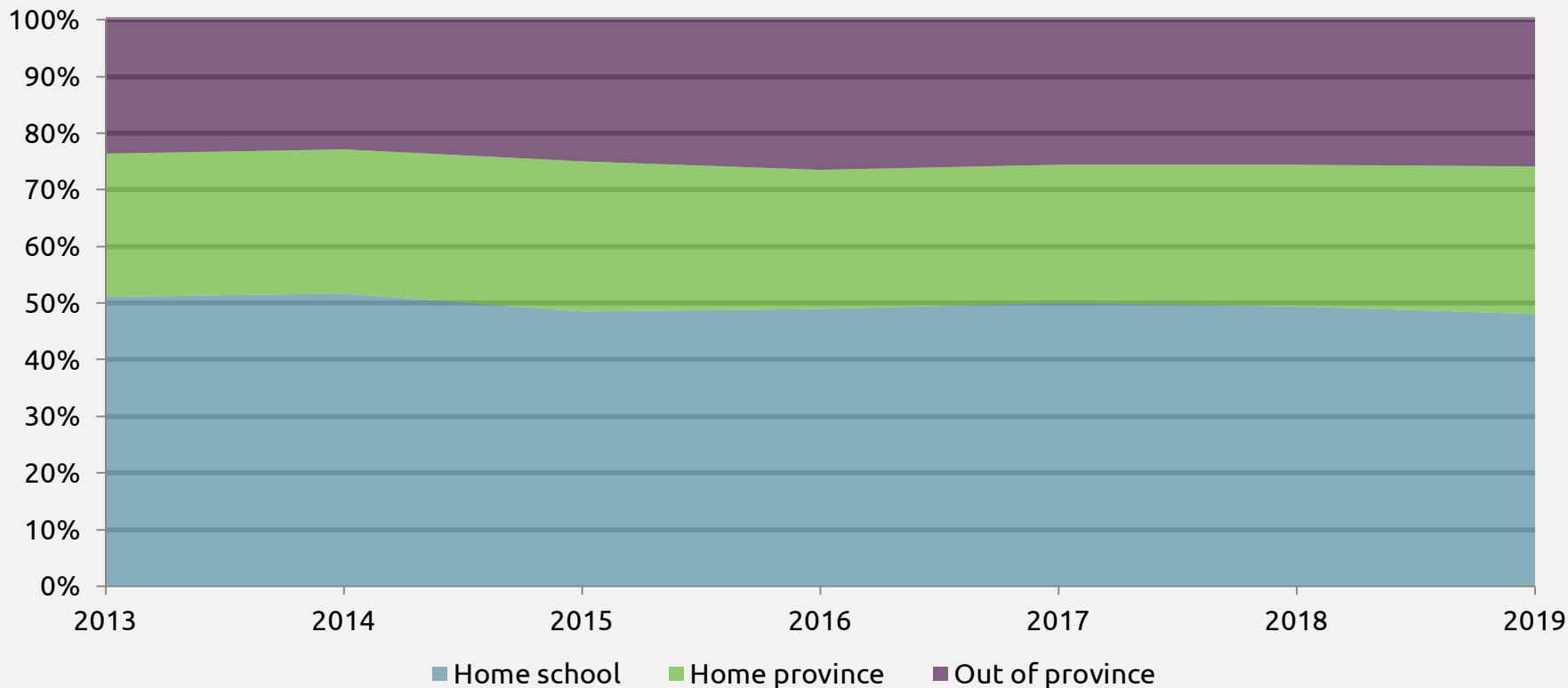


Program choice 2019	
First	55.4%
Second	15.6%
Third	8.2%
Fourth	5.7%
Fifth	3.3%
Sixth	2.8%
Seventh	1.8%
Eighth +	7.2%

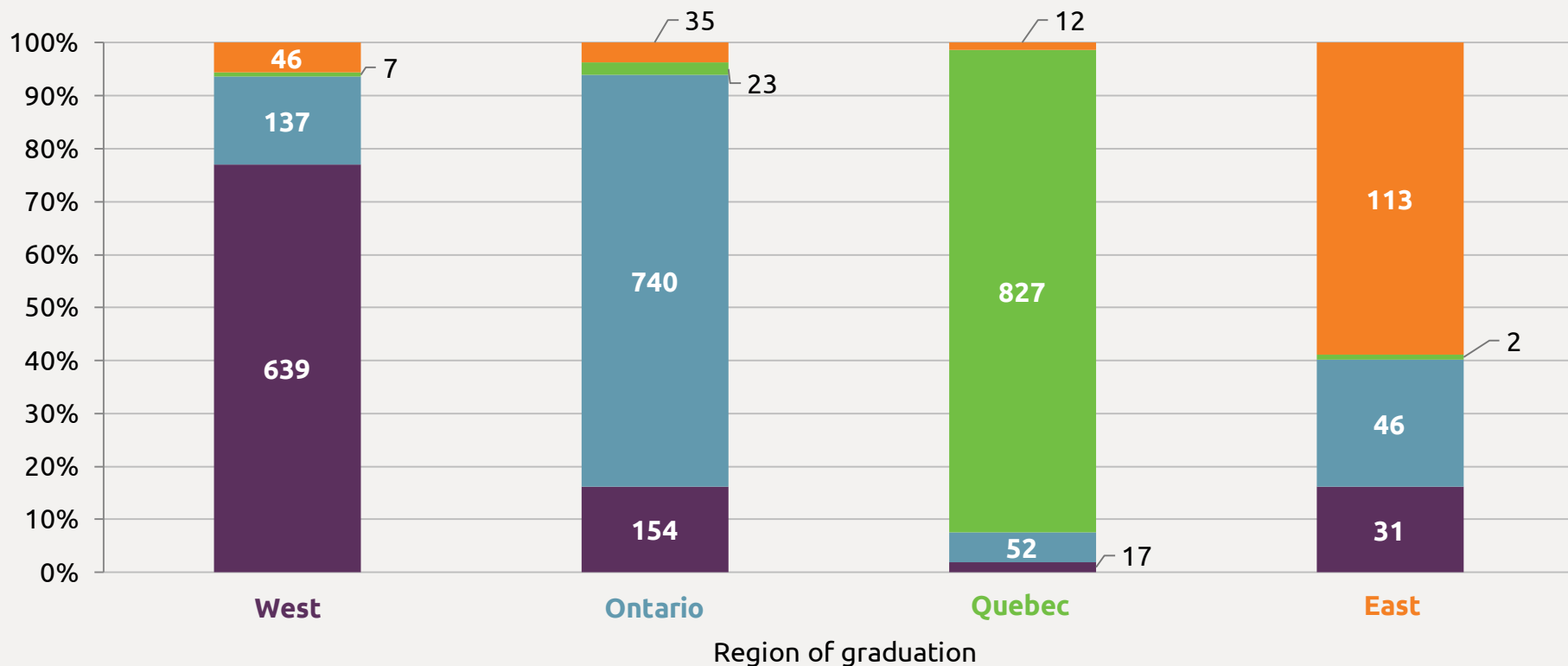
CMGs matched to one of their top three program choices, by discipline group



Graduate mobility: emigration at national level

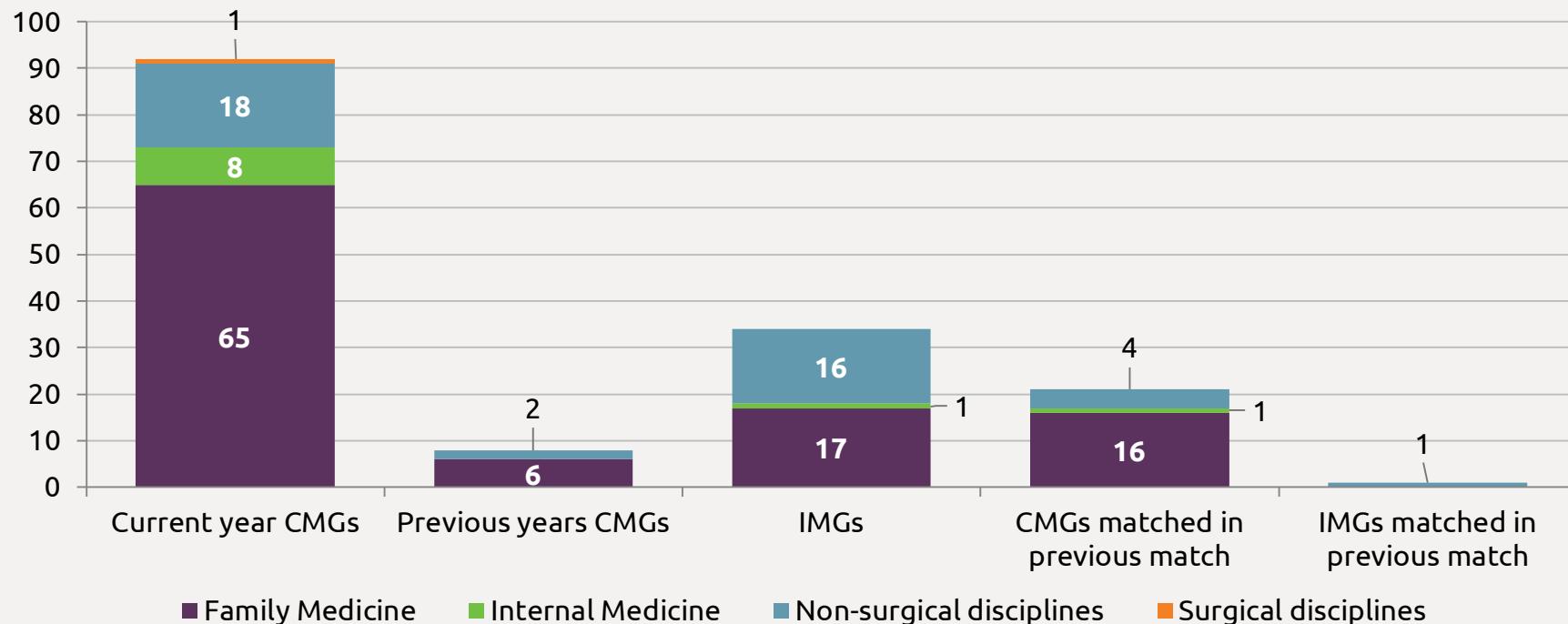


Graduate mobility: movement by region in 2019

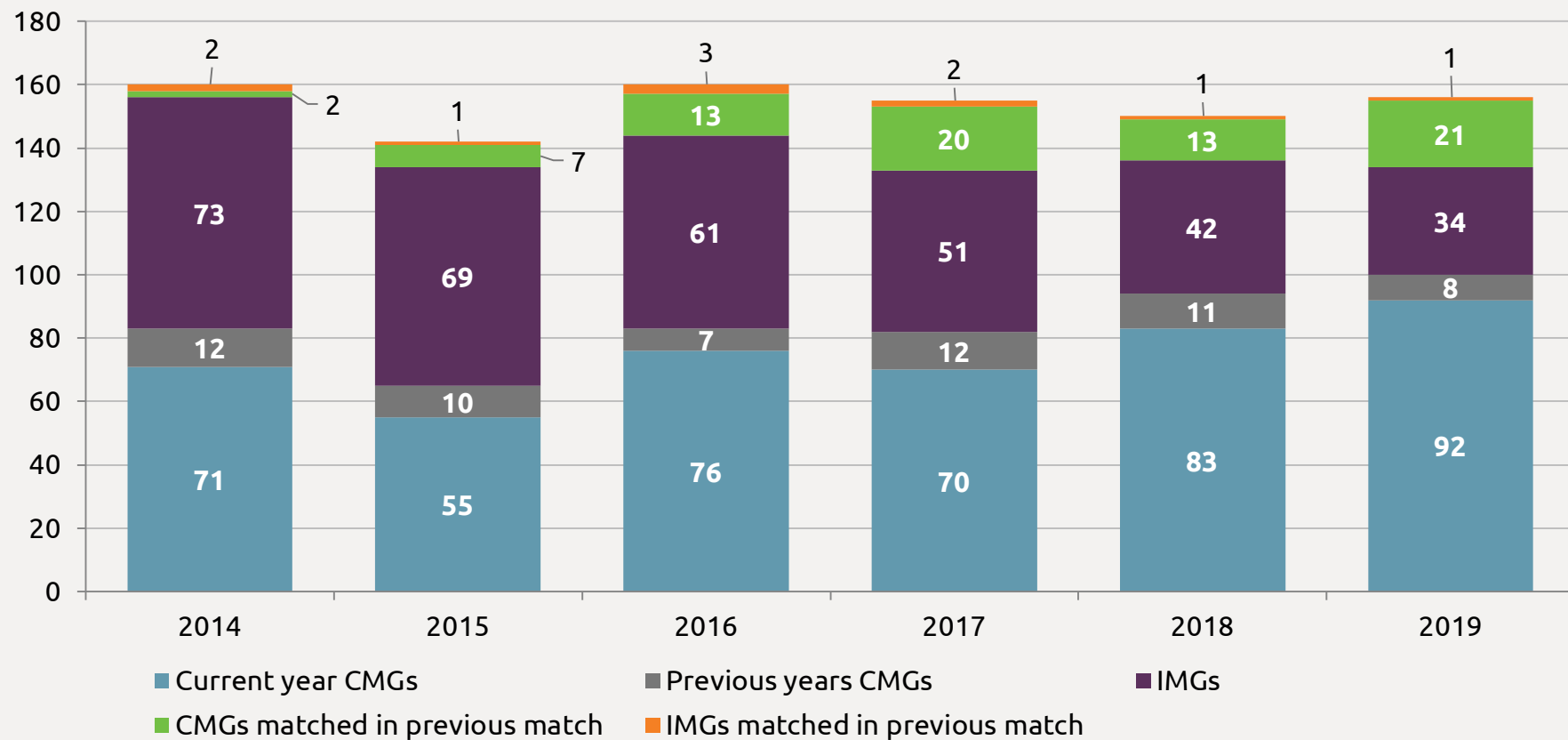


■ Matched to western school ■ Matched to Ontario school ■ Matched to Quebec school ■ Matched to eastern school

2019 second iteration filled positions by applicant type and position discipline

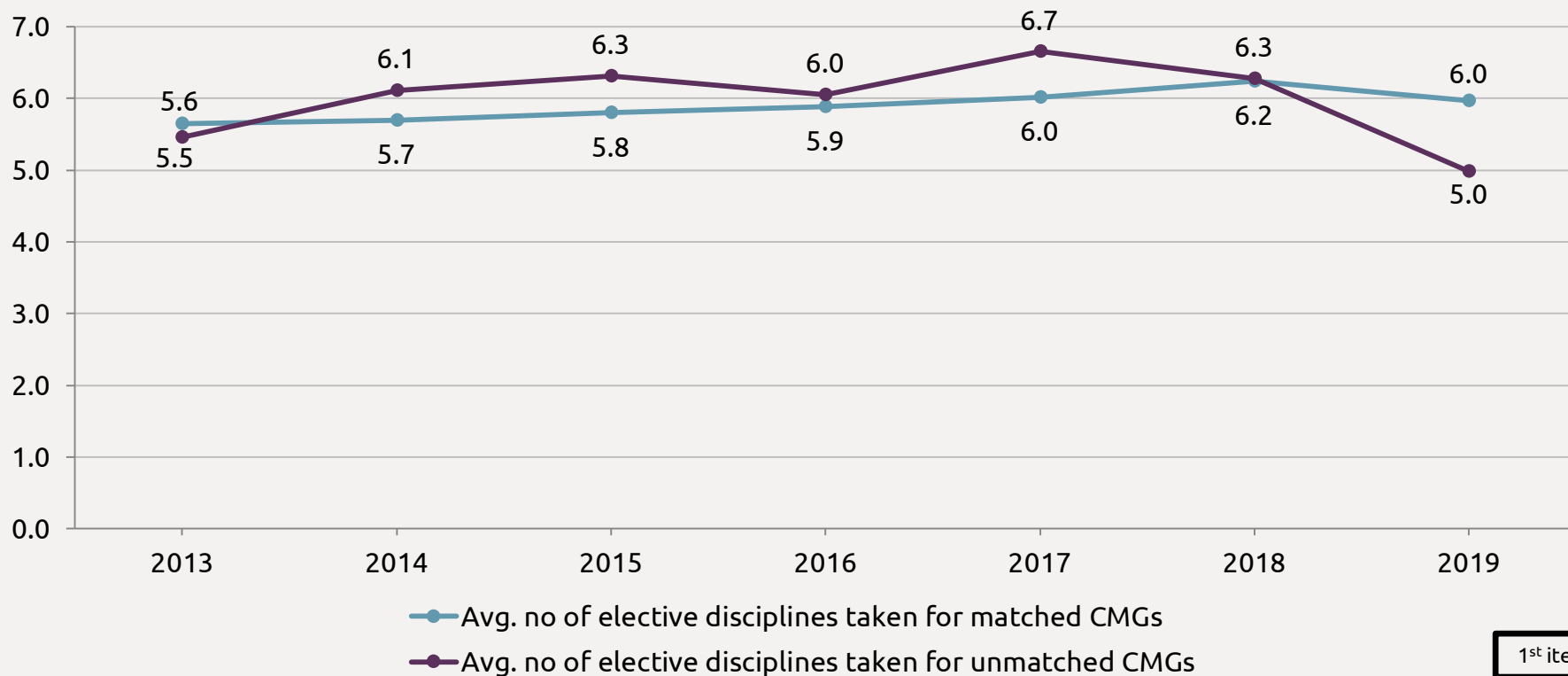


Second iteration filled positions by applicant type

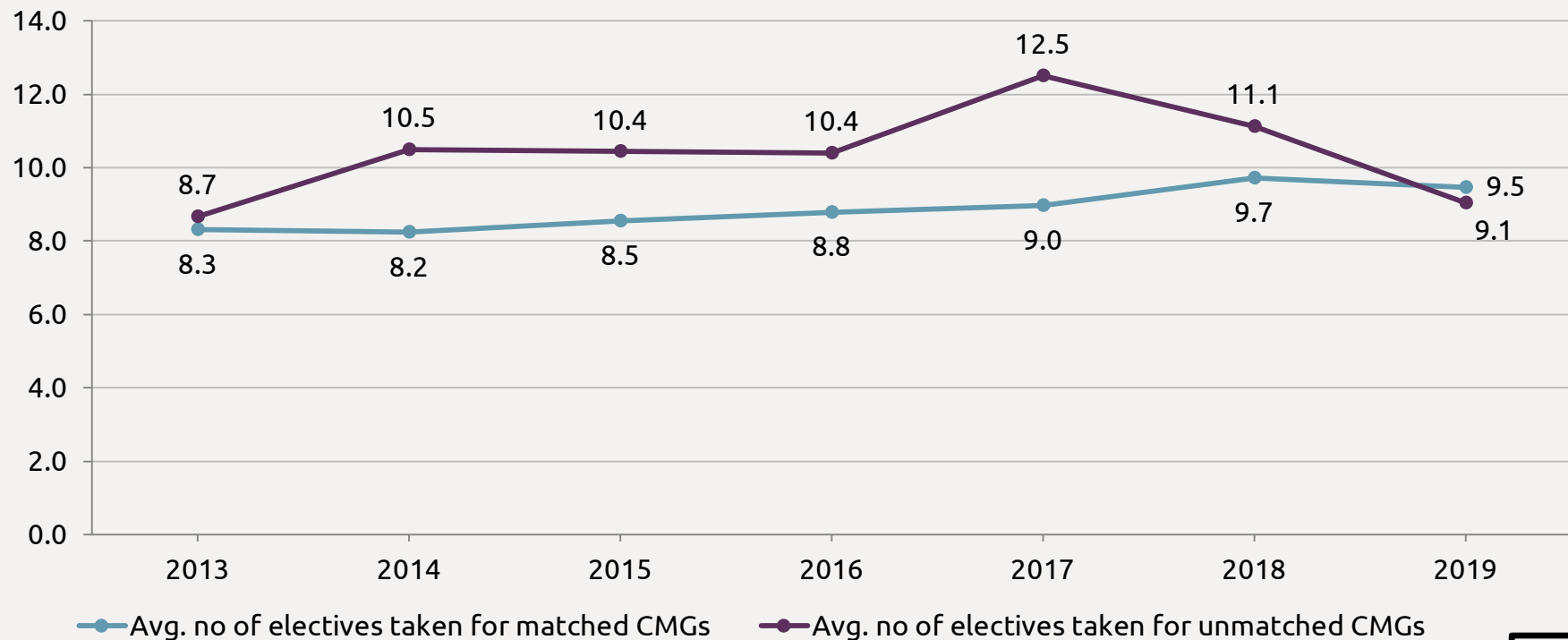


CMG elective profiles

Average number of elective disciplines for CMGs

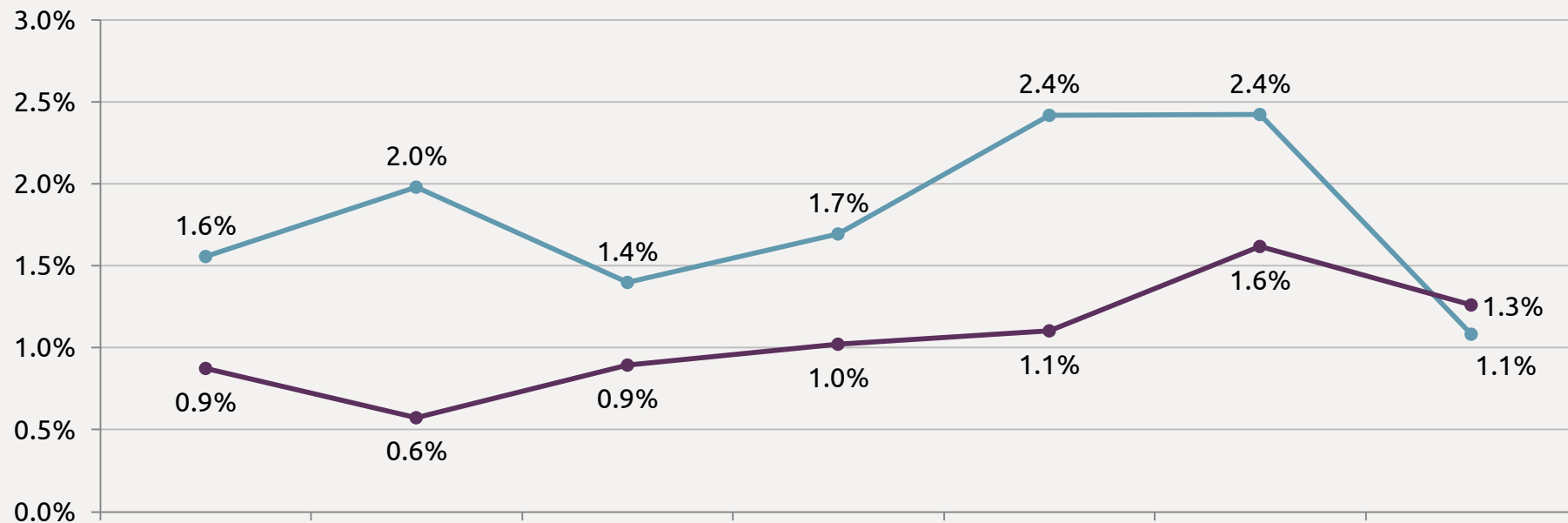


Average number of electives for CMGs



Unmatched CMGs & unfilled positions

Unmatched current year CMGs after second iteration

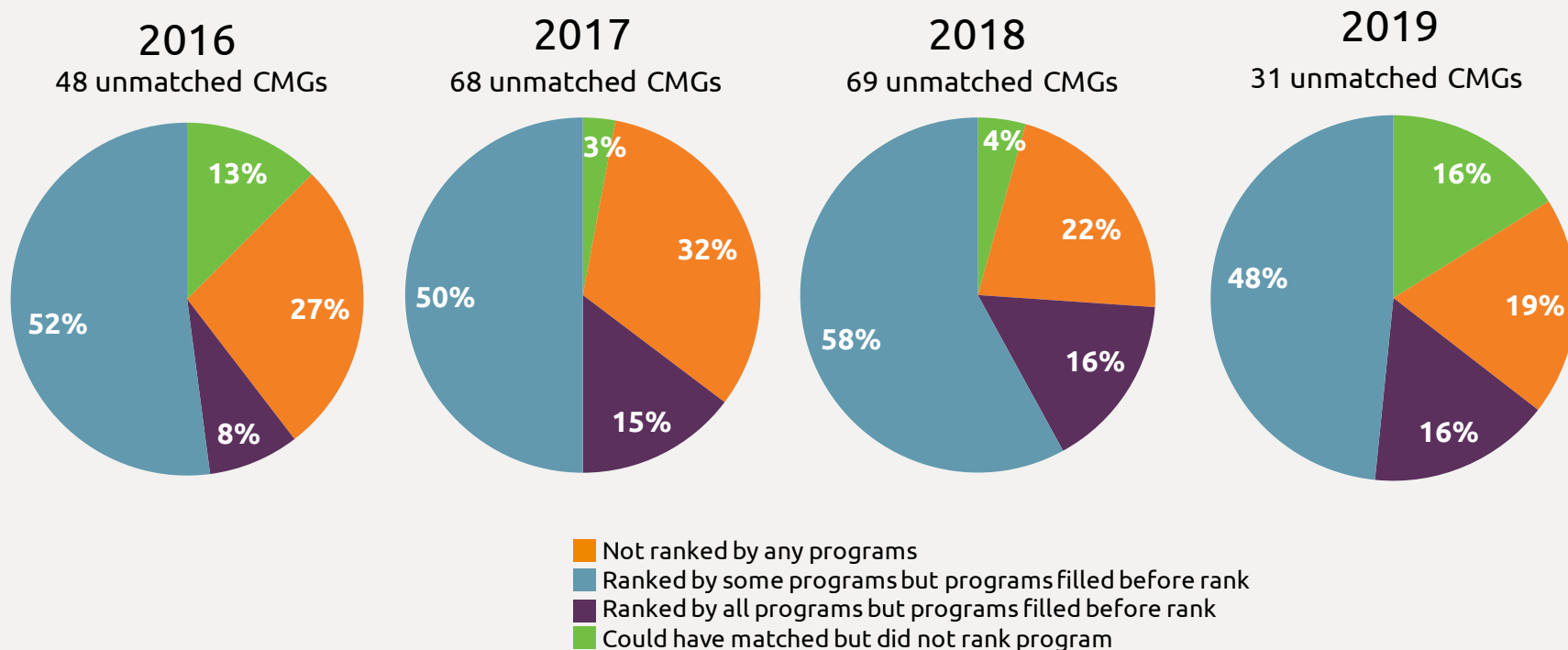


2013	2014	2015	2016	2017	2018	2019
41	55	39	48	68	69	31
23	16	25	29	31	46	36

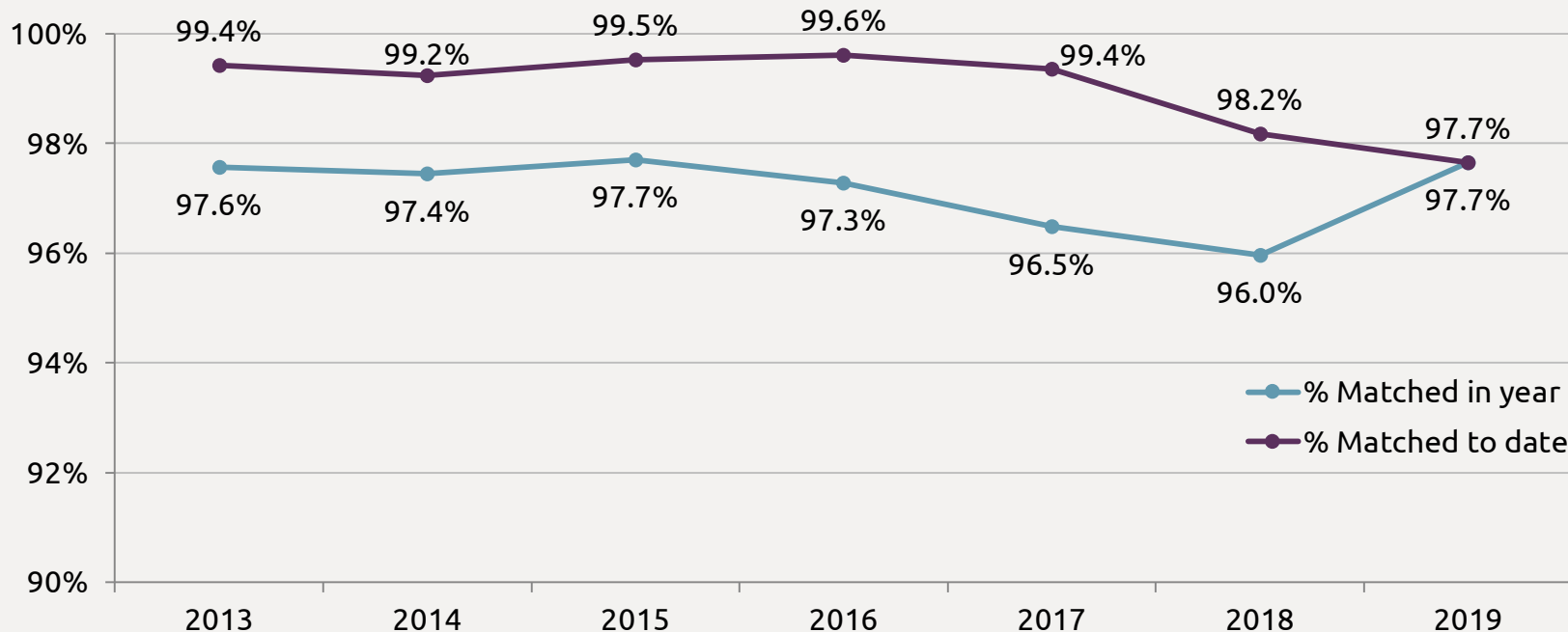
— Unmatched current year CMGs after 2nd iteration

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

Categorizing unmatched CMGs after second iteration



CMG long-term match success



Remaining unmatched

2013

4

2014

6

2015

6

2016

5

2017

8

2018

8

2019

31

Unknown journey

11

15

7

6

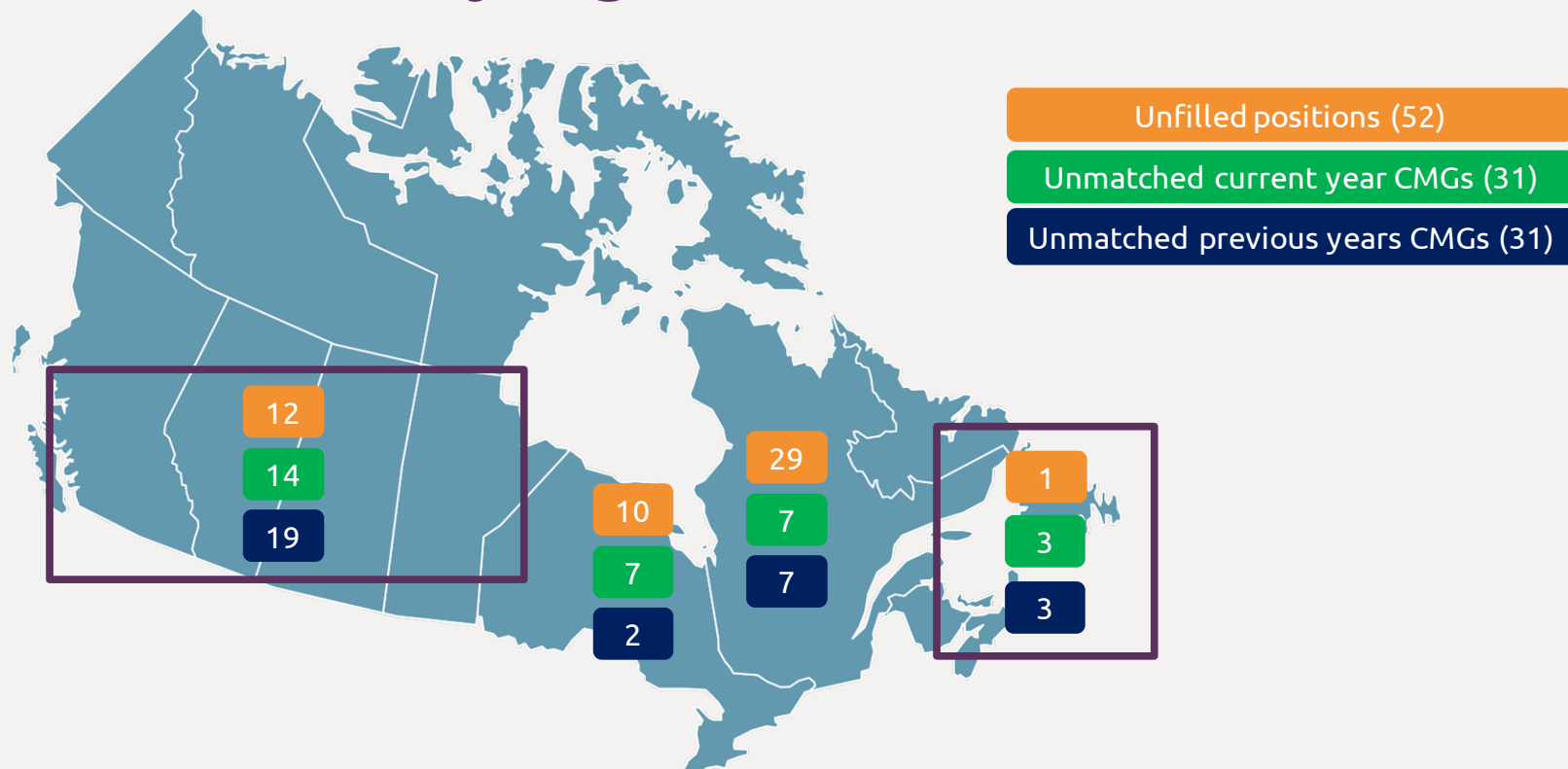
10

44

36

After second iteration

Unfilled positions and unmatched CMGs after second iteration, by region

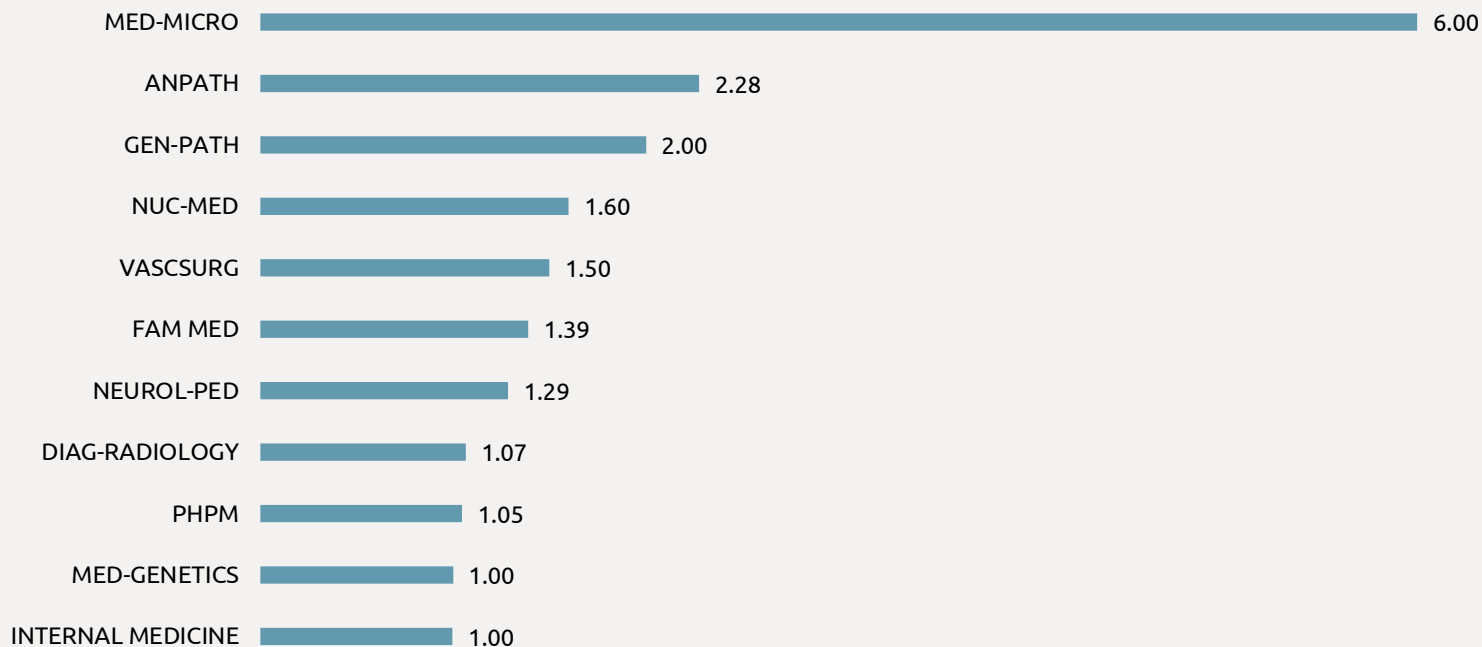


Additional data

Top 10 CMG discipline choices

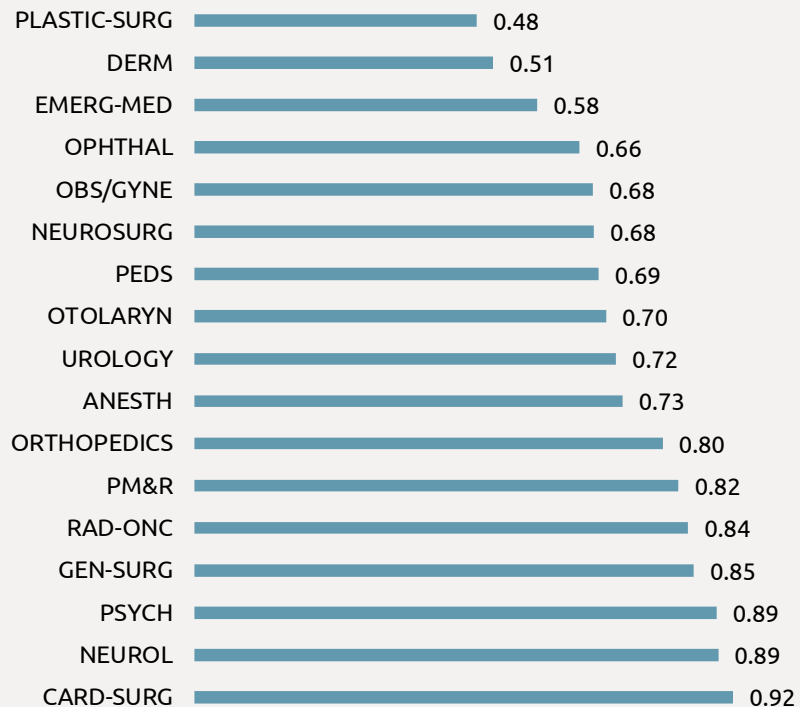
First choice disciplines	2017	2018	2019	Change from 2017
Family Medicine	33.4%	33.2%	33.2%	-0.2%
Internal Medicine	16.0%	14.2%	15.7%	-0.3%
Psychiatry	6.2%	6.5%	7.0%	0.8%
Pediatrics	5.9%	5.3%	6.4%	0.5%
Anesthesiology	4.7%	5.0%	5.2%	0.5%
Emergency Medicine	4.1%	4.2%	4.1%	0.0%
Obstetrics and Gynecology	3.9%	3.8%	4.0%	0.1%
General Surgery	3.7%	4.1%	3.2%	-0.5%
Diagnostic Radiology	3.1%	2.8%	2.6%	-0.5%
Orthopedics	2.0%	1.9%	2.0%	0.0%

First choice discipline compared to availability (supply > demand)



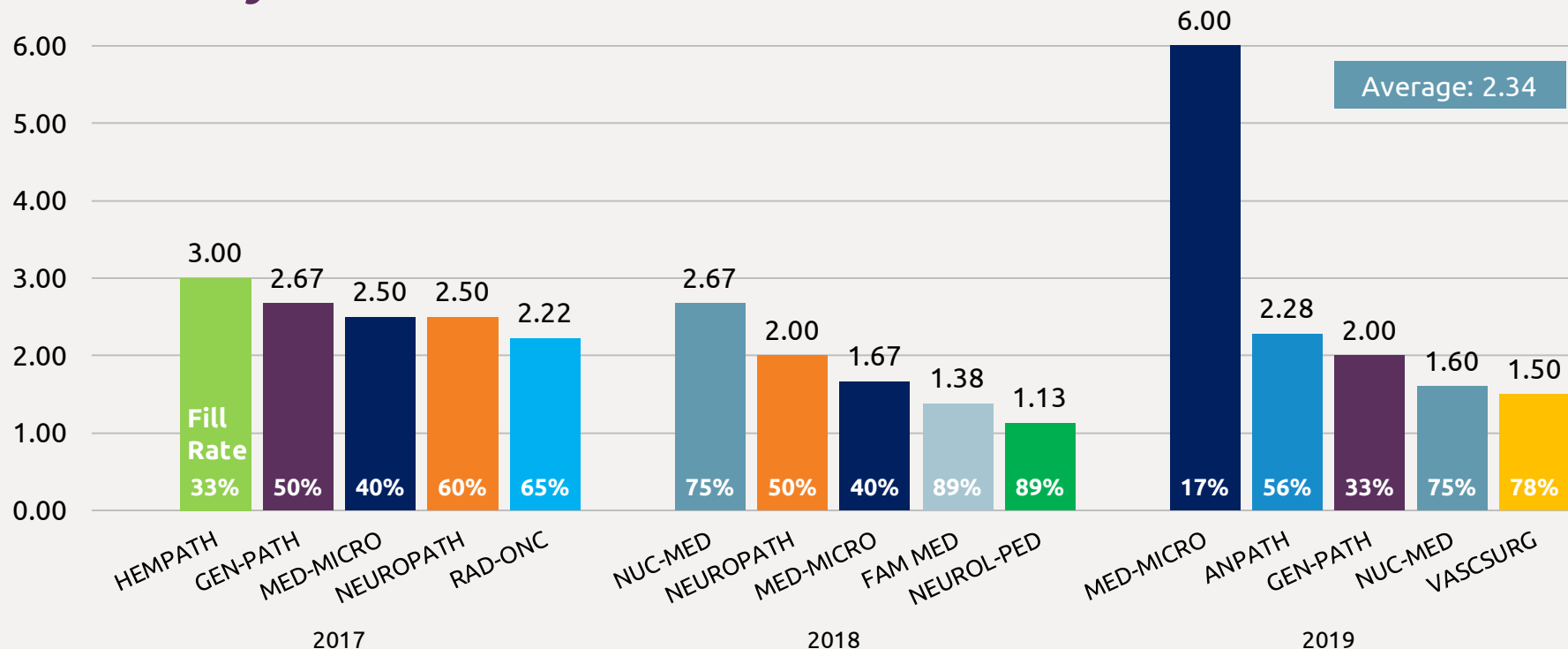
(Positions/Applicant first choice discipline)

First choice discipline compared to availability (supply < demand)

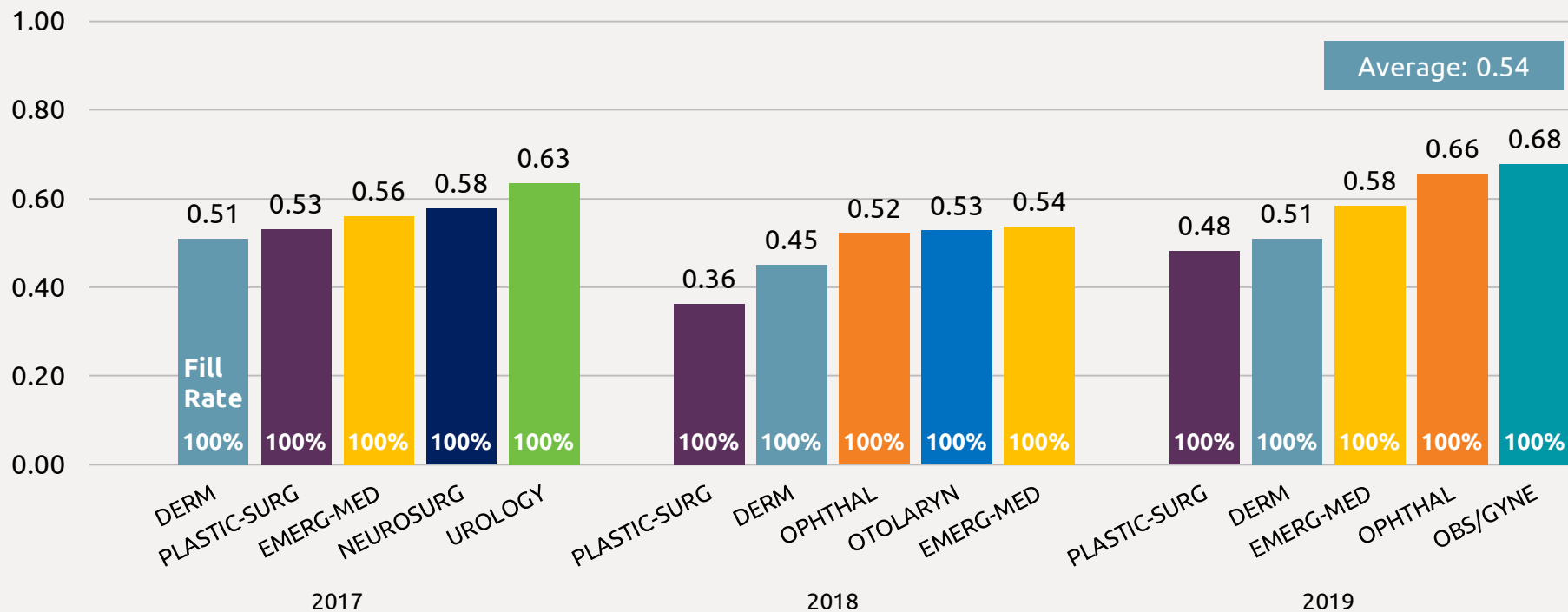


(Positions/Applicant first choice discipline)

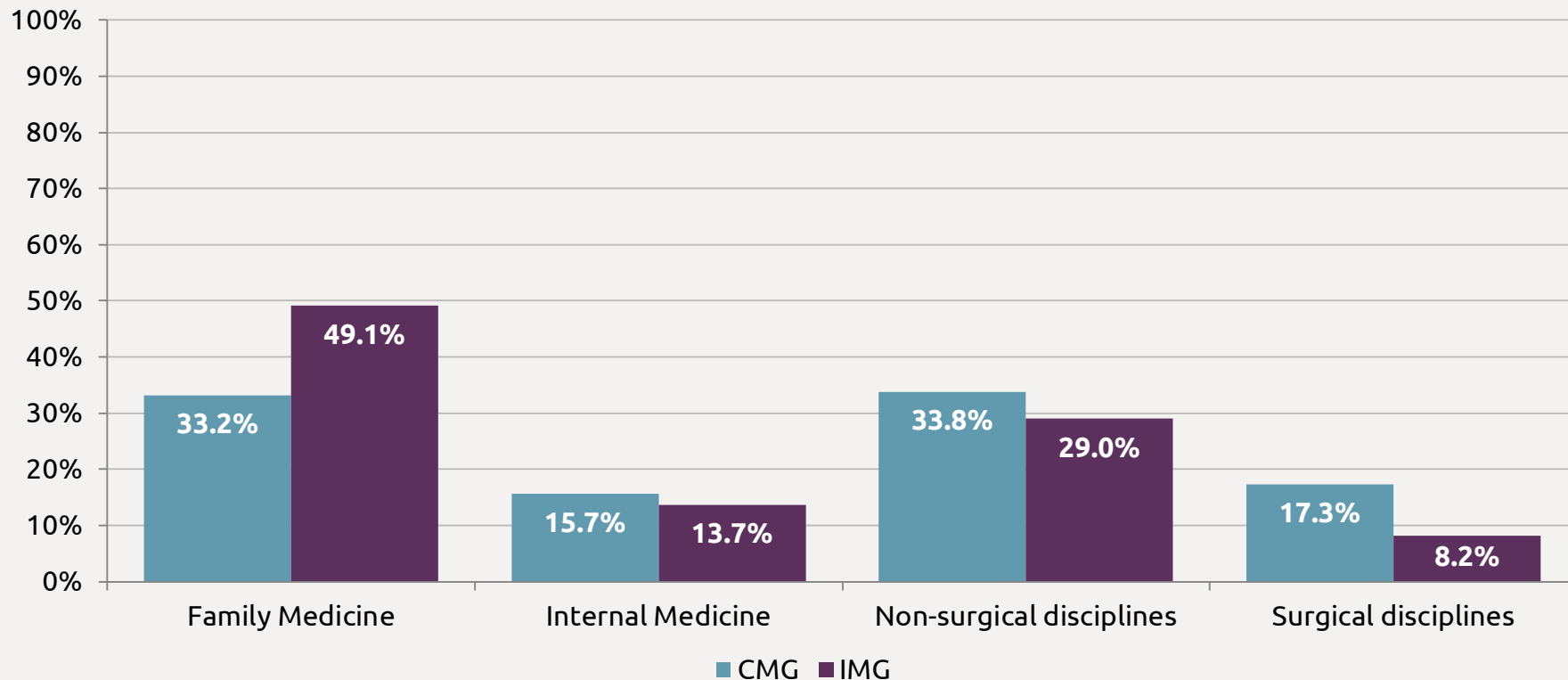
Lowest demand: CMGs first discipline choice compared to availability



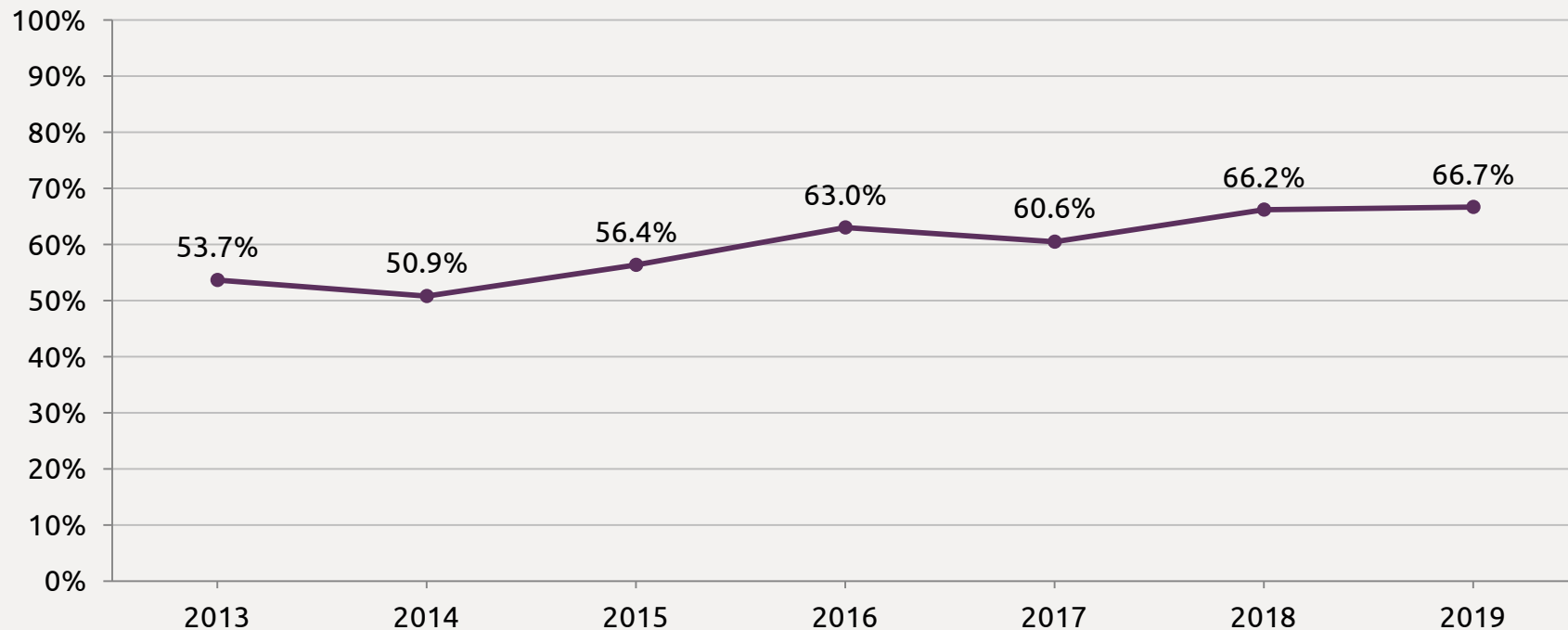
Highest demand: CMGs first discipline choice compared to availability



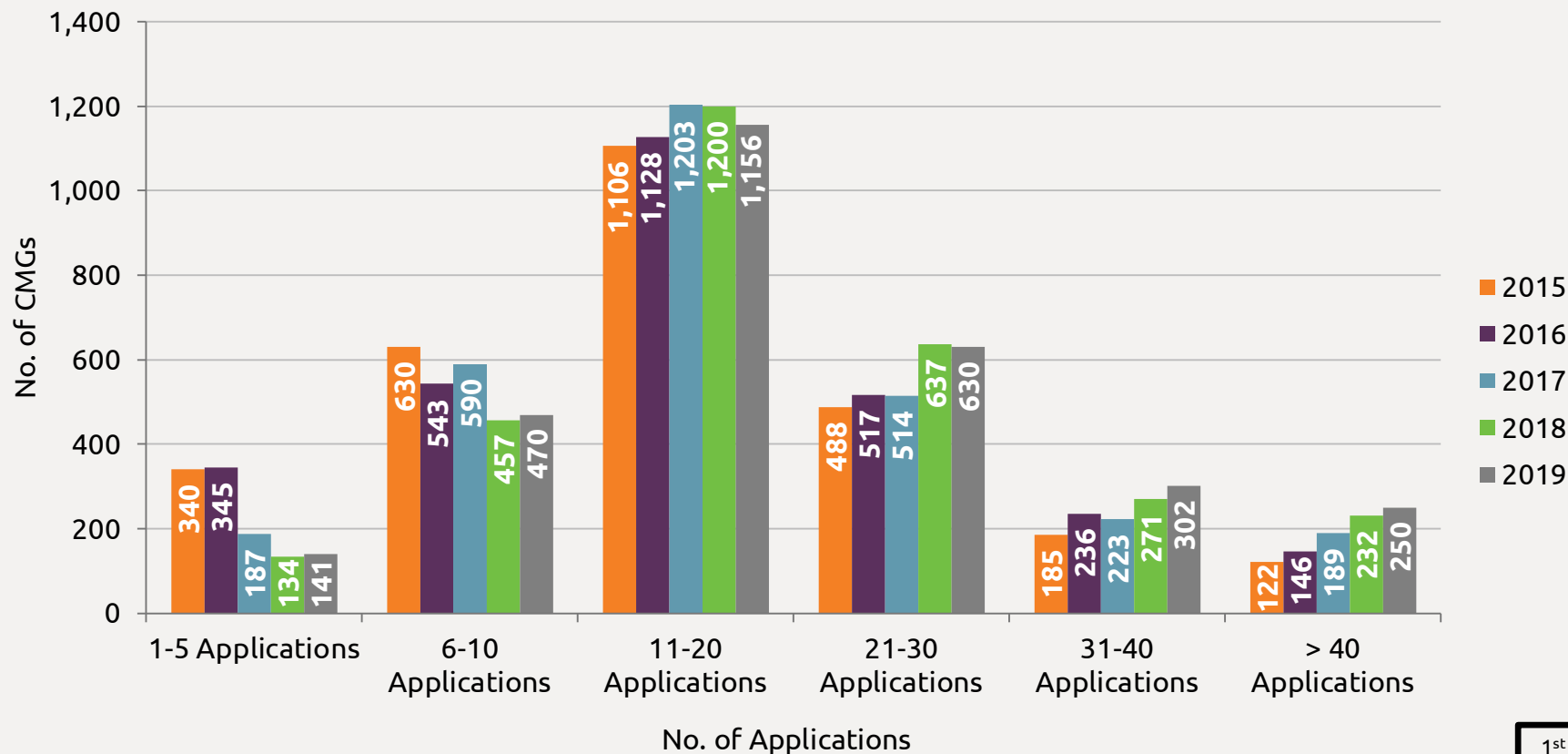
2019 CMG and IMG first choice disciplines



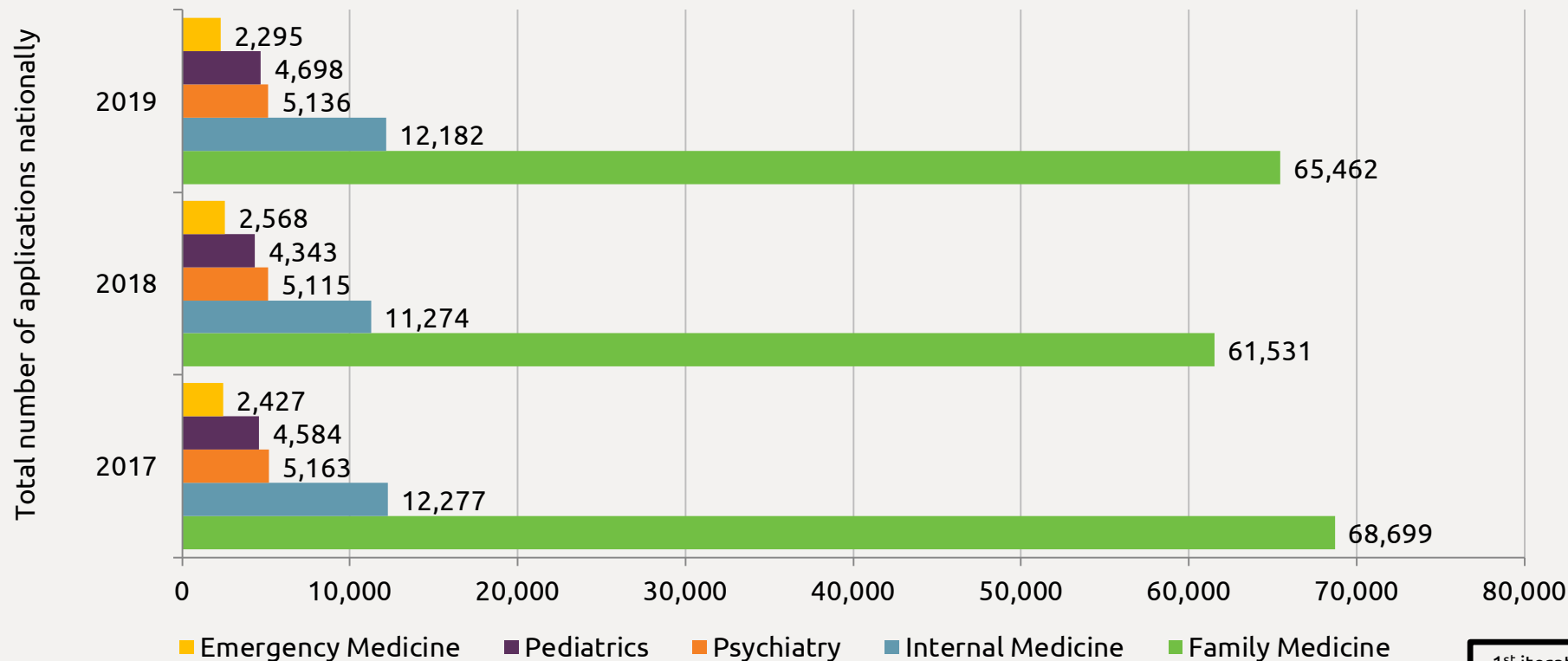
Current year CMGs who changed their first choice discipline in second iteration



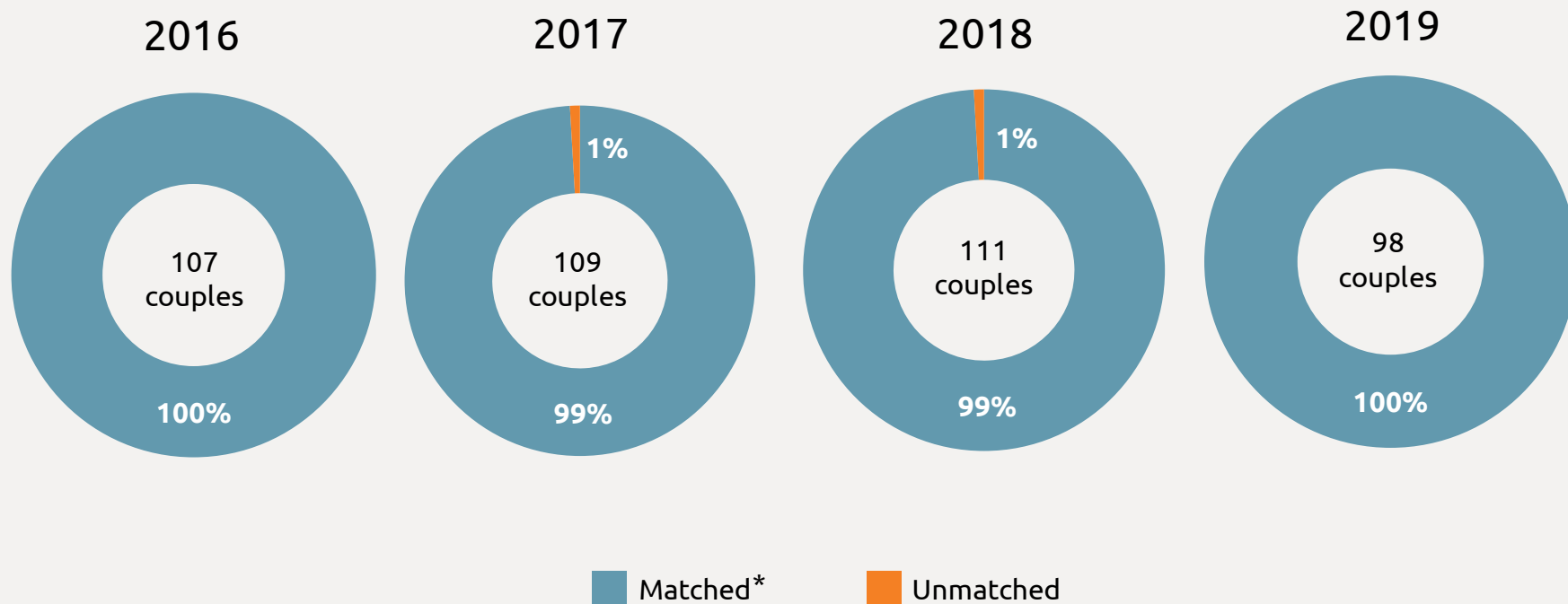
CMG program applications frequency distribution



Top 5 disciplines by number of applications



CMG couples match rates



*Includes couples that matched only one partner

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
Anatomical Pathology	1	0	0	18	8
Anesthesiology	0	0	3	0	0
Cardiac Surgery	0	0	0	0	0
Dermatology	0	0	0	0	0
Diagnostic Radiology	5	2	1	5	0
Emergency Medicine	0	0	4	1	0
Family Medicine	58	10	2	138	33
Family Medicine integrated Care of the Elderly	0	0	0	0	0
Family Medicine integrated Emergency Medicine	0	0	0	0	0
General Pathology	0	1	0	4	1
General Surgery	0	0	1	0	0
Hematological Pathology	0	0	0	1	1
Internal Medicine	9	5	1	10	0
Medical Genetics and Genomics	0	0	0	1	1
Medical Microbiology	1	0	0	5	3
Neurology	0	0	0	5	1
Neurology - Pediatric	3	6	0	3	0
Neuropathology	0	0	0	2	2
Neurosurgery	0	0	4	0	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	4	1	0	2	0
Obstetrics and Gynecology	0	0	2	0	0
Ophthalmology	0	0	6	0	0
Orthopedic Surgery	0	0	0	0	0
Otolaryngology - Head and Neck Surgery	0	0	1	0	0
Pediatrics	1	0	3	1	0
Pediatrics – CIP	0	0	0	0	0
Pediatrics - MD-PHD stream	0	0	0	0	0
Physical Medicine & Rehabilitation	0	0	0	0	0
Plastic Surgery	0	0	4	0	0
Psychiatry	5	1	2	6	0
Psychiatry - Research Track	0	0	0	0	0
PHPM	0	0	0	3	0
PHPM including Family Medicine	0	0	0	2	1
Radiation Oncology	0	0	1	0	0
Urology	0	0	1	0	0
Vascular Surgery	4	4	0	2	1
TOTALS	91	30	36	209	52

Match results by school of graduation, first iteration 2019

School of graduation	Matched			Unmatched			Final participants		
	Current year Graduates	Previous years graduates	Total	Current year Graduates	Previous years graduates	Total	Current year Graduates	Previous years graduates	Total
Memorial University of Newfoundland	74	2	76	1	0	1	75	2	77
Dalhousie University	110	2	112	3	1	4	113	3	116
Université Laval	222	6	228	8	1	9	230	7	237
Université de Sherbrooke	196	4	200	7	2	9	203	6	209
Université de Montréal	275	16	291	23	3	26	298	19	317
McGill University	145	9	154	26	3	29	171	12	183
University of Ottawa	156	3	159	4	0	4	160	3	163
Queen's University	94	1	95	2	1	3	96	2	98
Northern Ontario School of Medicine	58	0	58	2	0	2	60	0	60
University of Toronto	240	2	242	13	0	13	253	2	255
McMaster University	196	2	198	6	0	6	202	2	204
Western University	163	1	164	8	0	8	171	1	172
University of Manitoba	103	0	103	7	1	8	110	1	111
University of Saskatchewan	85	0	85	11	1	12	96	1	97
University of Alberta	161	1	162	5	1	6	166	2	168
University of Calgary	147	4	151	22	0	22	169	4	173
University of British Columbia	275	7	282	9	3	12	284	10	294
TOTAL	2700	60	2,760	157	17	174	2,857	77	2,934

Match results by school of graduation, second iteration 2019

School of graduation	Matched			Unmatched			Final participants		
	Current year Graduates	Previous years graduates	Total	Current year Graduates	Previous years graduates	Total	Current year Graduates	Previous years graduates	Total
Memorial University of Newfoundland	0	0	0	1	1	2	1	1	2
Dalhousie University	1	3	4	2	2	4	3	5	8
Université Laval	4	1	5	0	0	0	4	1	5
Université de Sherbrooke	3	2	5	3	4	7	6	6	12
Université de Montréal	10	0	10	2	3	5	12	3	15
McGill University	13	2	15	2	0	2	15	2	17
University of Ottawa	3	2	5	0	1	1	3	3	6
Queen's University	1	2	3	0	0	0	1	2	3
Northern Ontario School of Medicine	2	2	4	0	0	0	2	2	4
University of Toronto	8	3	11	2	1	3	10	4	14
McMaster University	4	1	5	2	0	2	6	1	7
Western University	6	2	8	3	0	3	9	2	11
University of Manitoba	6	0	6	1	4	5	7	4	11
University of Saskatchewan	9	3	12	2	2	4	11	5	16
University of Alberta	4	1	5	1	4	5	5	5	10
University of Calgary	12	2	14	8	5	13	20	7	27
University of British Columbia	6	3	9	2	4	6	8	7	15
TOTAL	92	29	121	31	31	62	123	60	183

2019 positions by discipline (1 of 2)

Discipline	First iteration			Second iteration	
	Positions available	Positions filled	Positions unfilled	Positions filled	Positions unfilled
Anatomical Pathology	48	30	18	10	8
Anesthesiology	121	121	0	0	0
Cardiac Surgery	12	12	0	0	0
Dermatology	31	31	0	0	0
Diagnostic Radiology	85	80	5	5	0
Emergency Medicine	76	75	1	1	0
Family Medicine	1,552	1,414	138	105	33
Family Medicine integrated Care of the Elderly	1	1	0	0	0
Family Medicine integrated Emergency Medicine	2	2	0	0	0
General Pathology	8	4	4	3	1
General Surgery	83	83	0	0	0
Hematological Pathology	2	1	1	0	1
Internal Medicine	511	501	10	10	0
Medical Genetics and Genomics	10	9	1	0	1
Medical Microbiology	8	3	5	2	3
Neurology	53	48	5	4	1
Neurology - Pediatric	11	8	3	3	0
Neuropathology	3	1	2	0	2
Neurosurgery	17	17	0	0	0

2019 positions by discipline (2 of 2)

Discipline	First iteration			Second iteration	
	Positions available	Positions filled	Positions unfilled	Positions filled	Positions unfilled
Nuclear Medicine	8	6	2	2	0
Obstetrics and Gynecology	86	86	0	0	0
Ophthalmology	39	39	0	0	0
Orthopedic Surgery	52	52	0	0	0
Otolaryngology - Head and Neck Surgery	28	28	0	0	0
Pediatrics	145	144	1	1	0
Pediatrics - Clinician Investigator Program	1	1	0	0	0
Pediatrics - MD-PHDstream	1	1	0	0	0
Physical Medicine & Rehabilitation	30	30	0	0	0
Plastic Surgery	25	25	0	0	0
Psychiatry	204	198	6	6	0
Psychiatry - Research Track	2	2	0	0	0
Public Health and Preventive Medicine	10	7	3	3	0
Public Health and Preventive Medicine including Family Medicine	15	13	2	1	1
Radiation Oncology	21	21	0	0	0
Urology	35	35	0	0	0
Vascular Surgery	10	8	2	1	1
TOTAL	3,346	3,137	209	157	52

2019 unfilled positions by discipline

Discipline	After first iteration	After second iteration
Anatomical Pathology	18	8
Diagnostic Radiology	5	0
Emergency Medicine	1	0
Family Medicine	138	33
General Pathology	4	1
Hematological Pathology	1	1
Internal Medicine	10	0
Medical Genetics and Genomics	1	1
Medical Microbiology	5	3
Neurology	5	1

Discipline	After first iteration	After second iteration
Neurology - Pediatric	3	0
Neuropathology	2	2
Nuclear Medicine	2	0
Pediatrics	1	0
Psychiatry	6	0
Public Health and Preventive Medicine	3	0
Public Health and Preventive Medicine including Family Medicine	2	1
Vascular Surgery	2	1
TOTAL	209	52

2019 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	80	74	6	5	1
Dalhousie University	146	137	9	9	0
Université Laval	238	225	13	6	7
Université de Sherbrooke	200	186	14	5	9
Université de Montréal	298	284	14	4	10
McGill University	189	175	14	11	3
University of Ottawa	198	162	36	35	1
Queen's University	132	123	9	8	1
Northern Ontario School of Medicine	62	42	20	15	5
University of Toronto	407	407	0	0	0
McMaster University	216	208	8	7	1
Western University	184	176	8	6	2
University of Manitoba	138	128	10	6	4
University of Saskatchewan	120	98	22	22	0
University of Alberta	189	180	9	4	5
University of Calgary	202	188	14	11	3
University of British Columbia	347	344	3	3	0
TOTAL	3,346	3,137	209	157	52