CaRMS Forum

2017 R-1 Main Residency Match Outcomes and insights

April 30, 2017

caяms

Match overview

Program application
the program perspective

CMG choices

R-1 match >

Supply and demand

IMG results

Unmatched and unfilled

Match overview

CaRMS by the numbers

Client services
2017 R-1 Main Residency Match
First and second iterations combined

New!

3,009
chats

1,131
documents
translated

97.05%
satisfaction
rating

10,577
emails

9,760
calls to the
help desk
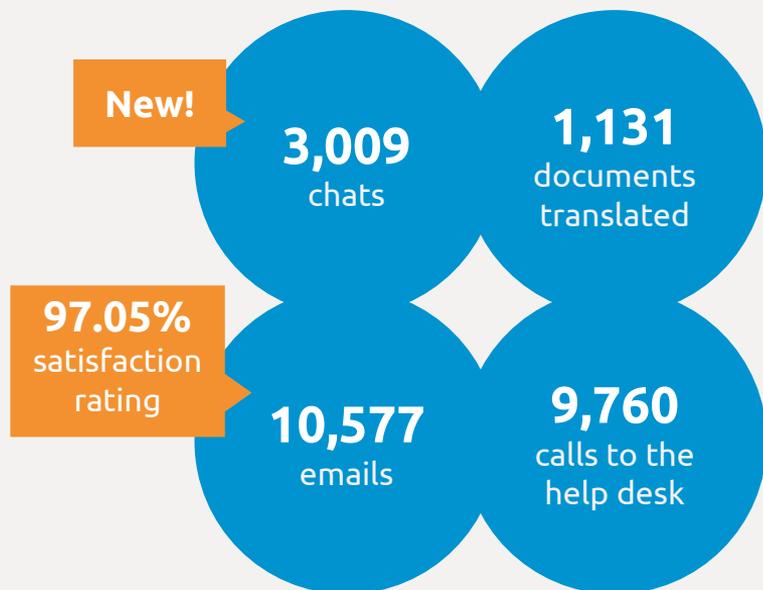
Applications
2017 R-1 Main Residency Match
First and second iterations combined

644
programs
3,305
quota

5,372
applicants

36,892
reference
letters

9.4%

128,334
applications

4.9%
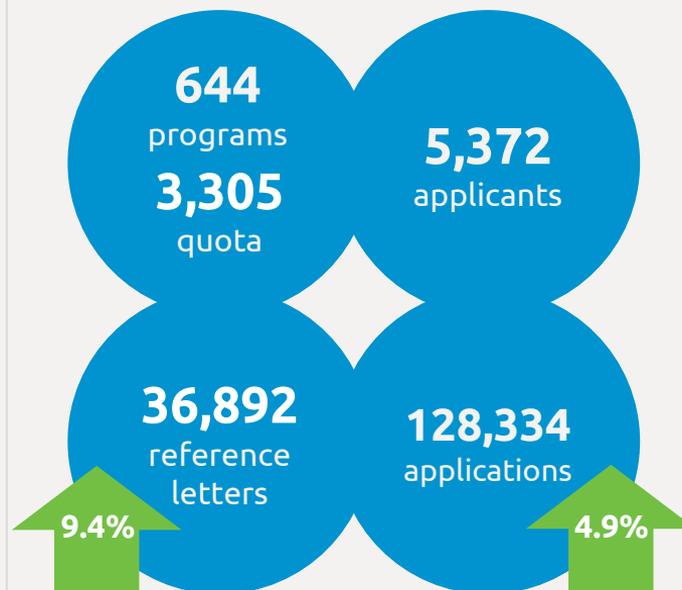
Applicant pool breakdown 2017
First and second iterations combined

	REGISTRANTS	WITHDRAWN APPLICANTS	ACTIVE APPLICANTS	FINAL PARTICIPANTS*
CMG	3,005	25	2,969	**2,955**
IMG	2,495	58	2,348	**1,811**
USMG	69	8	55	**46**

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

2017 R-1 match national highlights

First iteration				
Graduate type	Current Year		Prior Year	
	# Matched	# Unmatched	# Matched	# Unmatched
CMG	2,644 (94.1%)	166	60 (72.3%)	23
USMG	22 (55.0%)	18	2 (50.0%)	2
IMG	108 (44.8%)	133	250 (18.2%)	1,126

Second iteration				
Graduate type	Current Year		Prior Year	
	# Matched	# Unmatched	# Matched	# Unmatched
CMG	70 (50.7%)	68	32 (41.0%)	46
USMG	0	0	0	3
IMG	12 (17.4%)	57	41 (4.5%)	879

219

3,086

64

155

■Filled ■Unfilled

2017 R-1 match regional highlights (applicant view)

First iteration				
Region	Current Year		Prior Year	
	# Matched	# Unmatched	# Matched	# Unmatched
Western	783 (94.8%)	43	11	3
Ontario	868 (93.0%)	65	20	9
Quebec	816 (94.2%)	50	26	11
Eastern	177 (95.7%)	8	9	0

Second iteration				
Region	Current Year		Prior Year	
	# Matched	# Unmatched	# Matched	# Unmatched
Western	17 (45.9%)	20	7	15
Ontario	22 (38.6%)	35	12	18
Quebec	29 (78.4%)	8	8	7
Eastern	2 (28.6%)	5	5	6

% Unmatched current year CMGs after second iteration

National: 2.4%
Western: 2.4%
Ontario: 3.8%
Quebec: 0.9%
Eastern: 2.7%

2017 R-1 match highlights by region (program quota view)

Western   Ontario   Quebec   Eastern

First iteration

Western: 50 / 943 — 94.95% fill rate

Ontario: 58 / 1,134 — 95.13% fill rate

Quebec: 95 / 813 — 89.54% fill rate

Eastern: 16 / 196 — 92.45% fill rate

Second iteration

Western: 4 / 46 — 99.60% total fill rate

Ontario: 2 / 56 — 99.83% total fill rate

Quebec: 37 / 58 — 93.61% total fill rate

Eastern: 0 / 16 — 100% total fill rate

■ Filled positions   ■ Unfilled positions
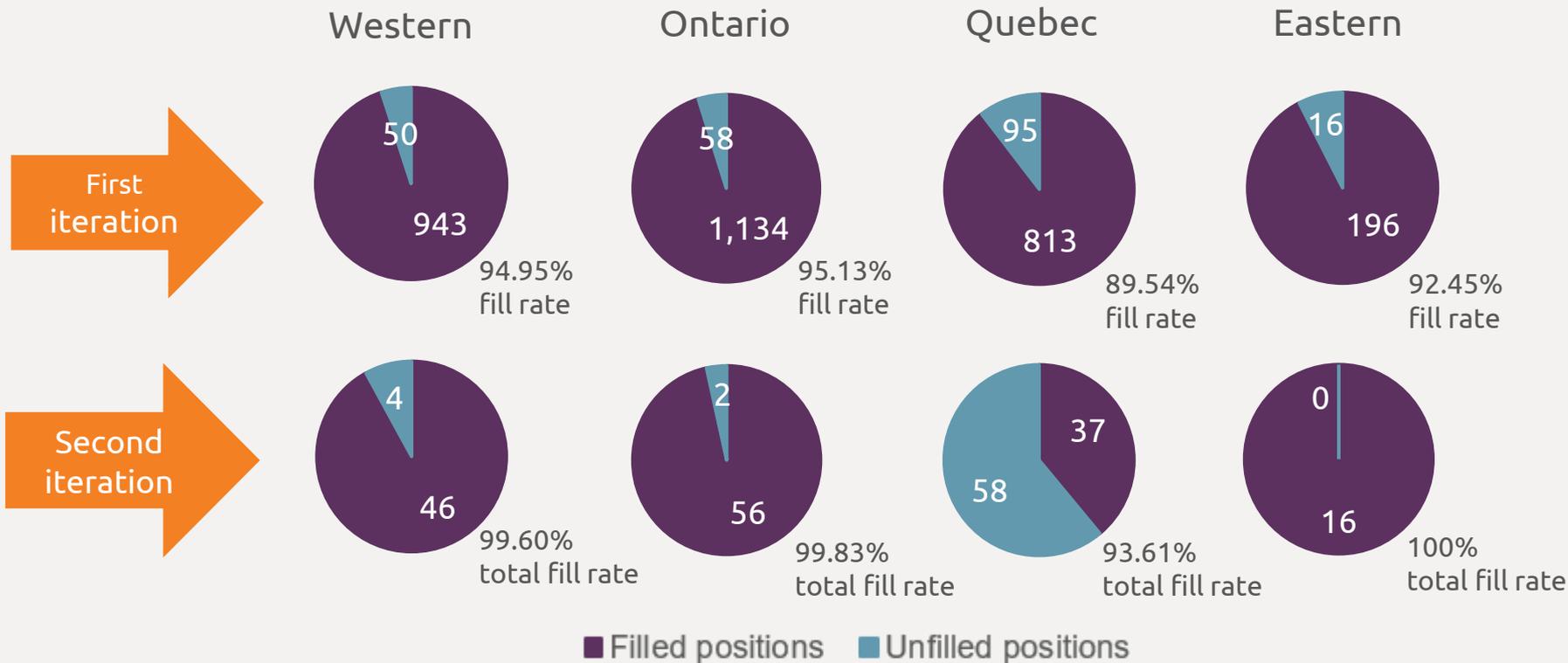
Summary of 2017 match results
First and second iterations combined

Applicant type	# matched	% matched
Current year CMG	2,714	**96.5**
Previous year CMG	92	**64.8**
IMG	411	**22.7**
USMG	24	**52.2**

Couples match rates (2014-2017)

2014 (N = 107) **2015 (N = 115)** **2016 (N = 105)** **2017 (N = 112)**

8% — 92%   2% — 98%   4% — 96%   4% — 96%
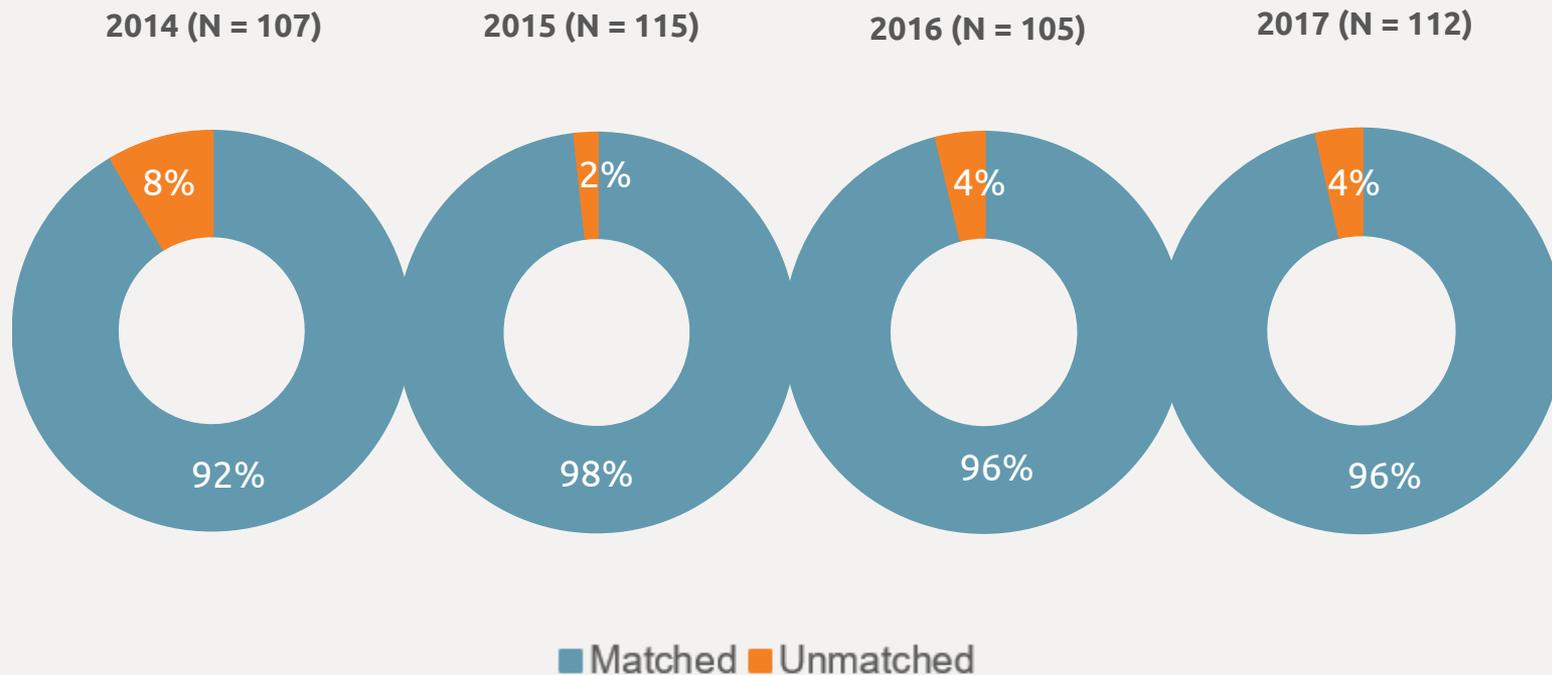
■ Matched ■ Unmatched

*includes couples that matched only one partner

Who entered postgraduate training in Canada (2011-2017)

Year	Prior year CMGs matched	Current year CMGs matched	IMGs matched	USMGs matched
2017	92	2714	411	24
2016	72	2761	408	18
2015	73	2728	421	26
2014	69	2710	449	27
2013	74	2571	499	25
2012	65	2557	407	31
2011	50	2457	380	22

■ Prior year CMGs matched   ■ Current year CMGs matched   ■ IMGs matched   ■ USMGs matched
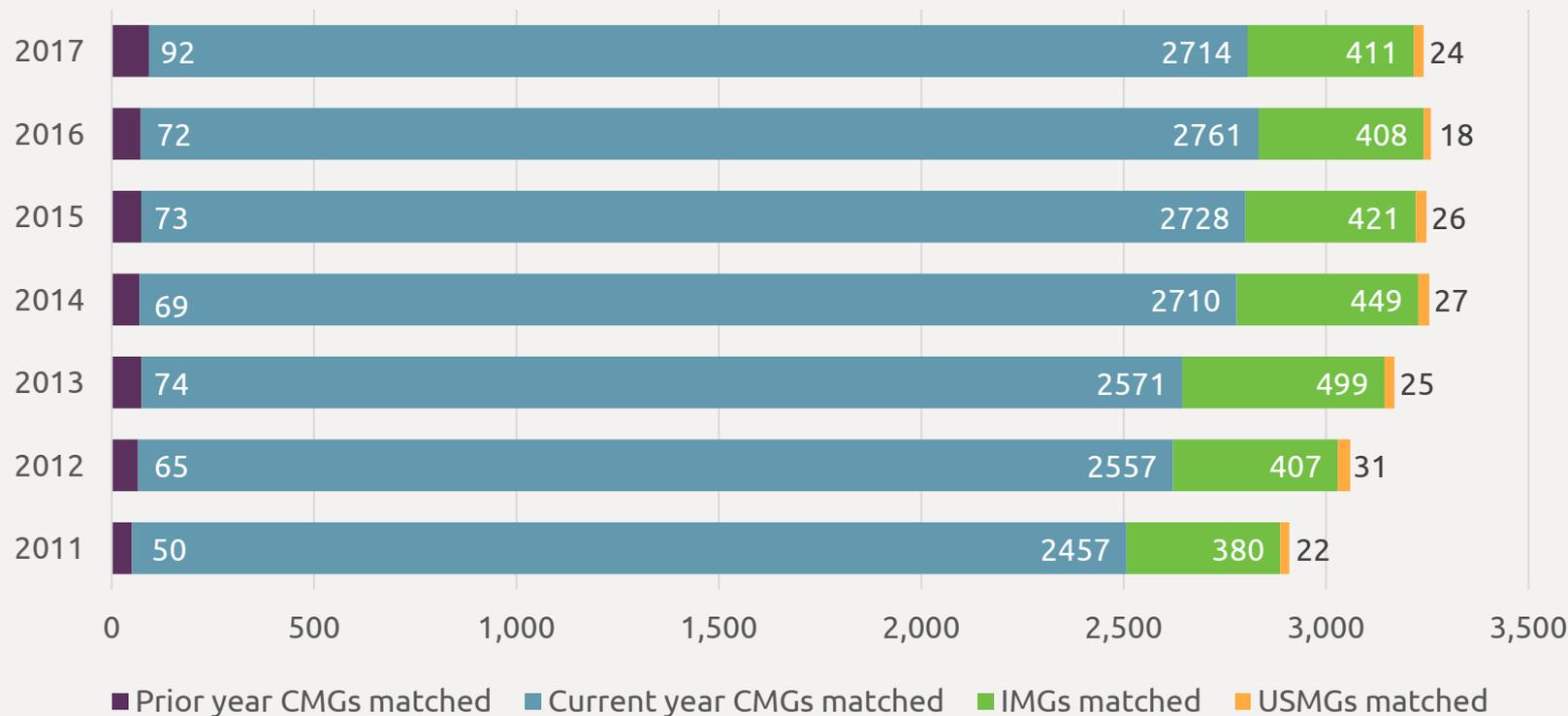
Program application:
the program perspective

# Program application and selection information: Discipline 1
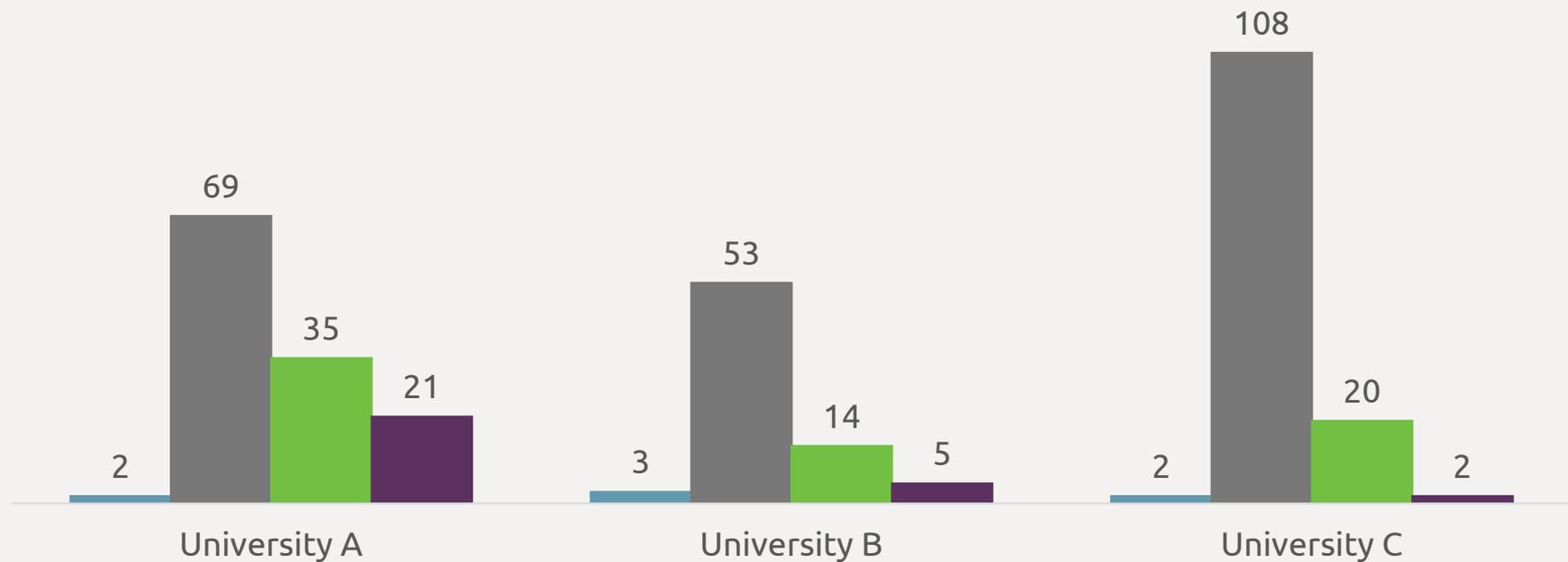
Quota | # Applicants | # Applicants ranked by program | Program ranking level to fill quota

# Program application and selection information: Discipline 2
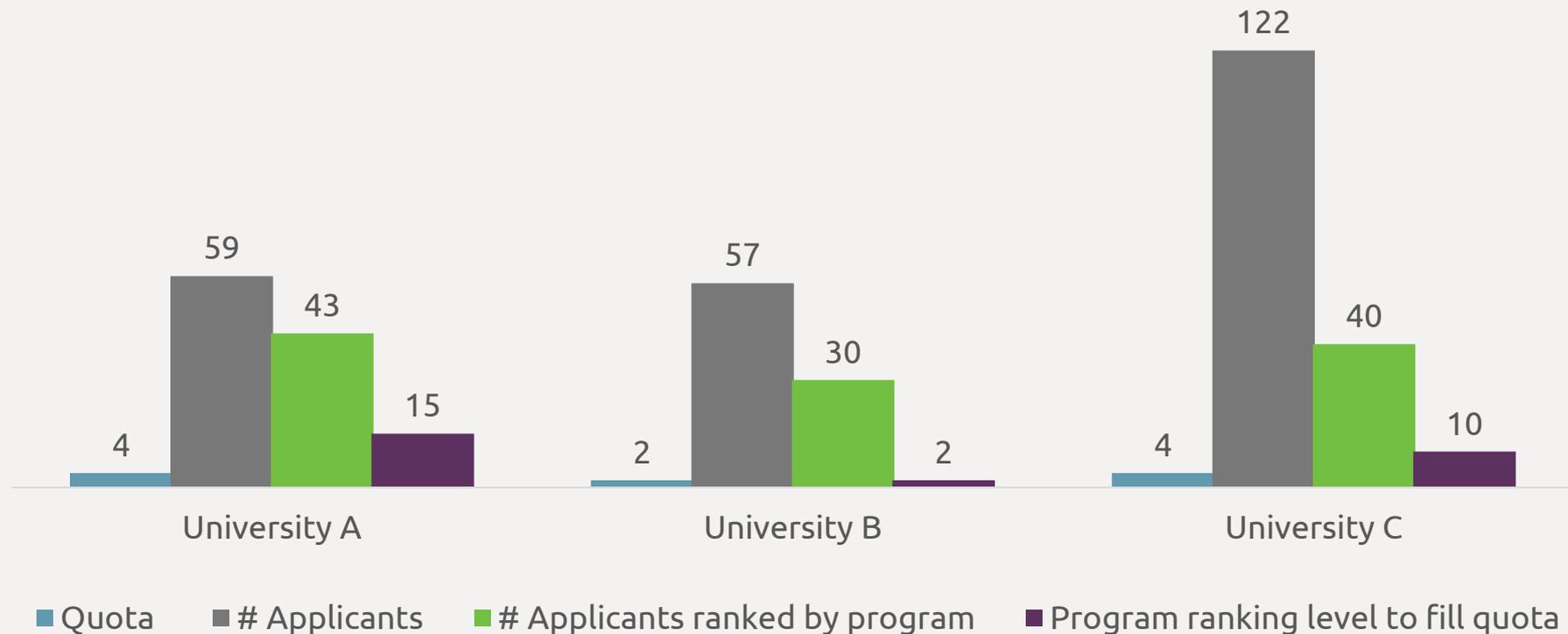
CMG choices

Graduate mobility: emigration by school of medicine in 2017


Home school ■ Same province ■ Out of province
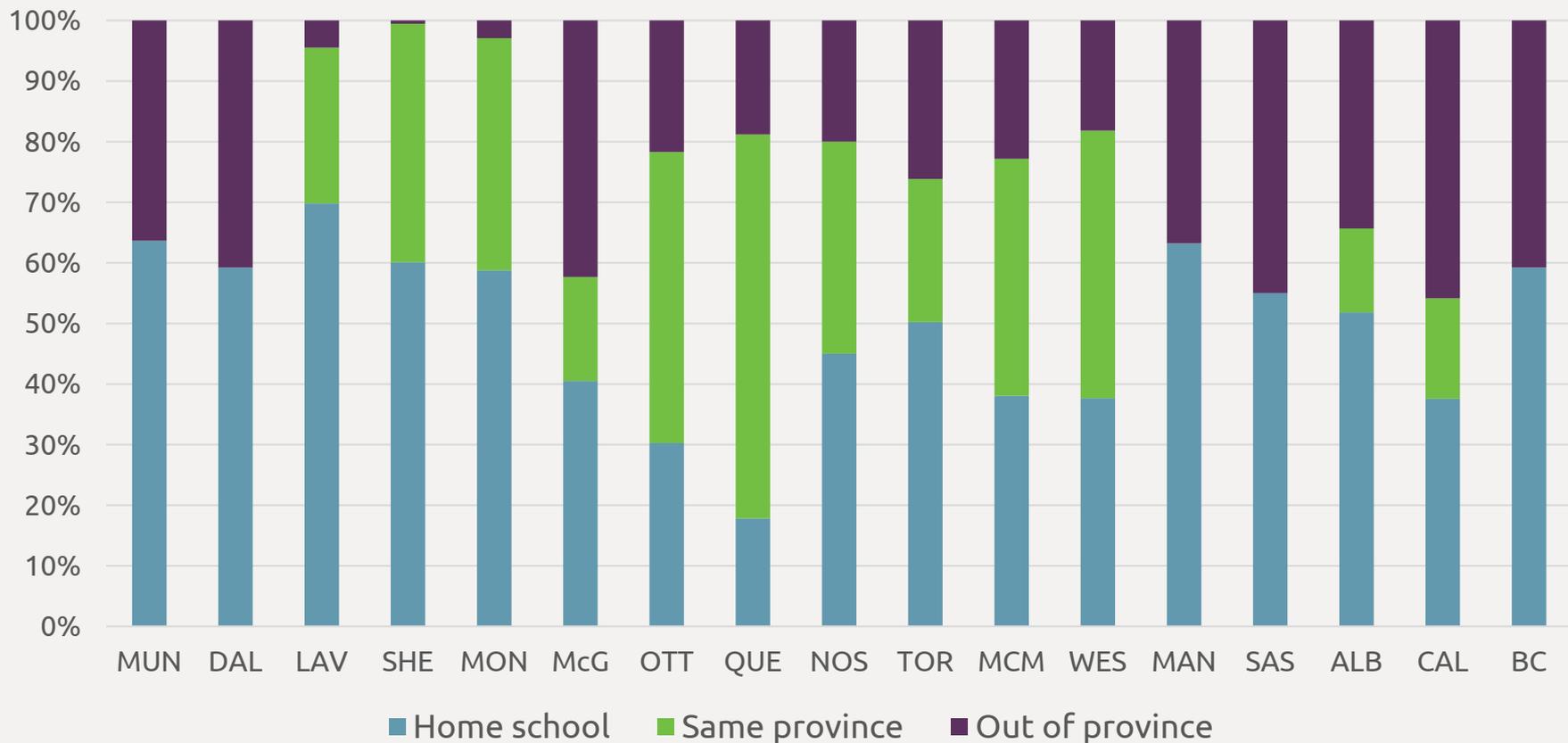
Graduate mobility: immigration by school of residency in 2017
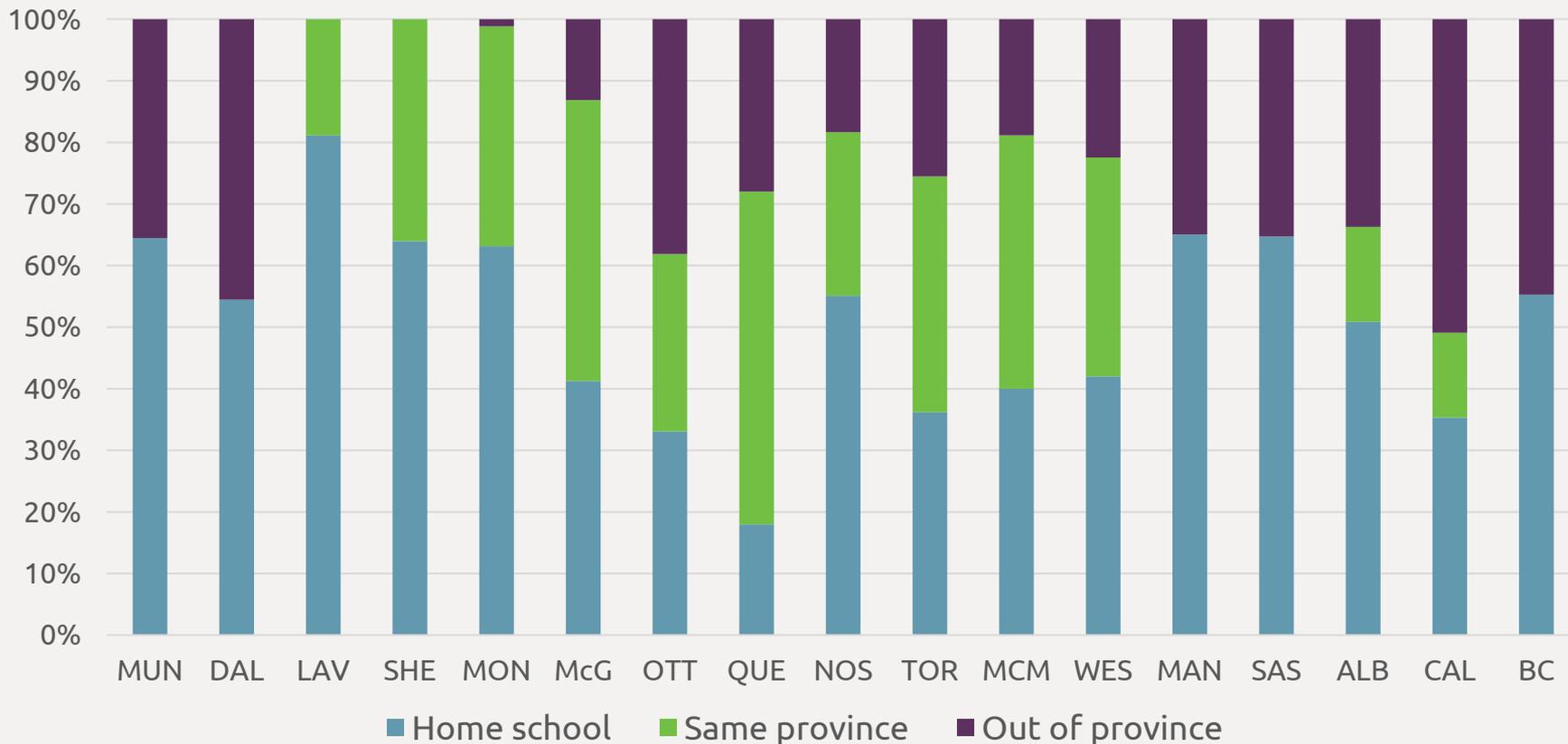
Graduate mobility: emigration at national level (2013-2017)

Home school ■ Same province ■ Out of province
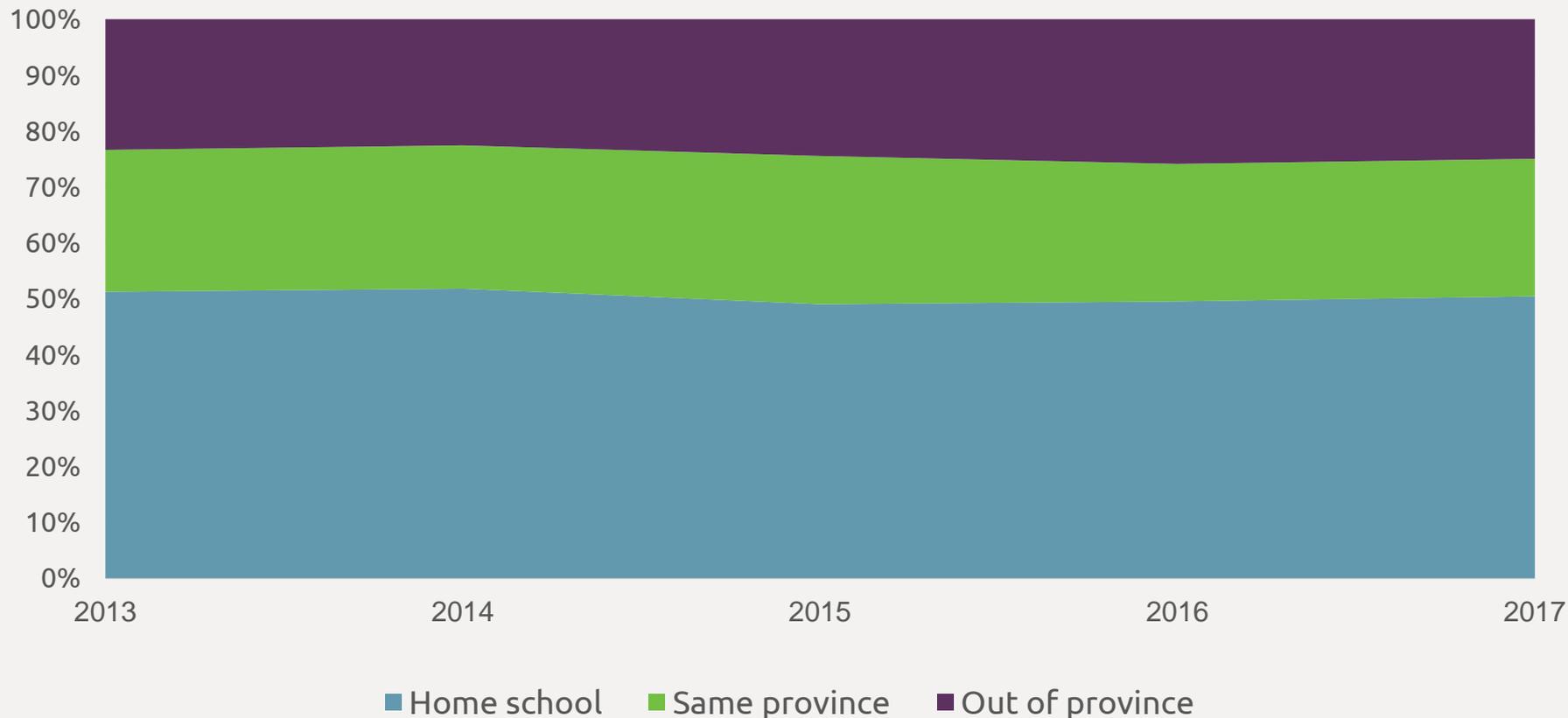
Average number of program applications by CMG and IMG applicants in the first iteration (2007-2017)

IMG: 24.0

CMG: 18.8

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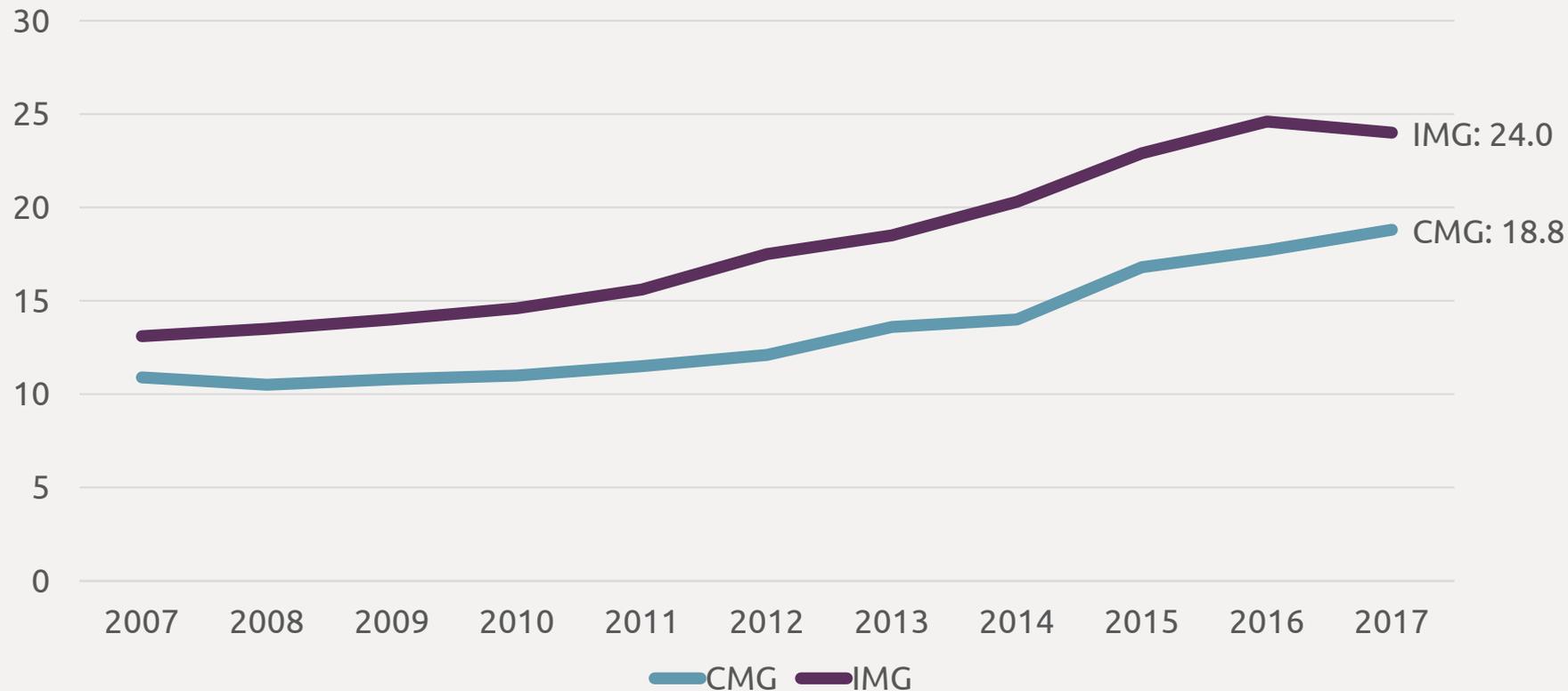
CMG match results by first and lower rank choices: ROL frequency distribution

The majority (57.1%) matched to their first choice rank

Rank choice

Cumulative %   # Matched
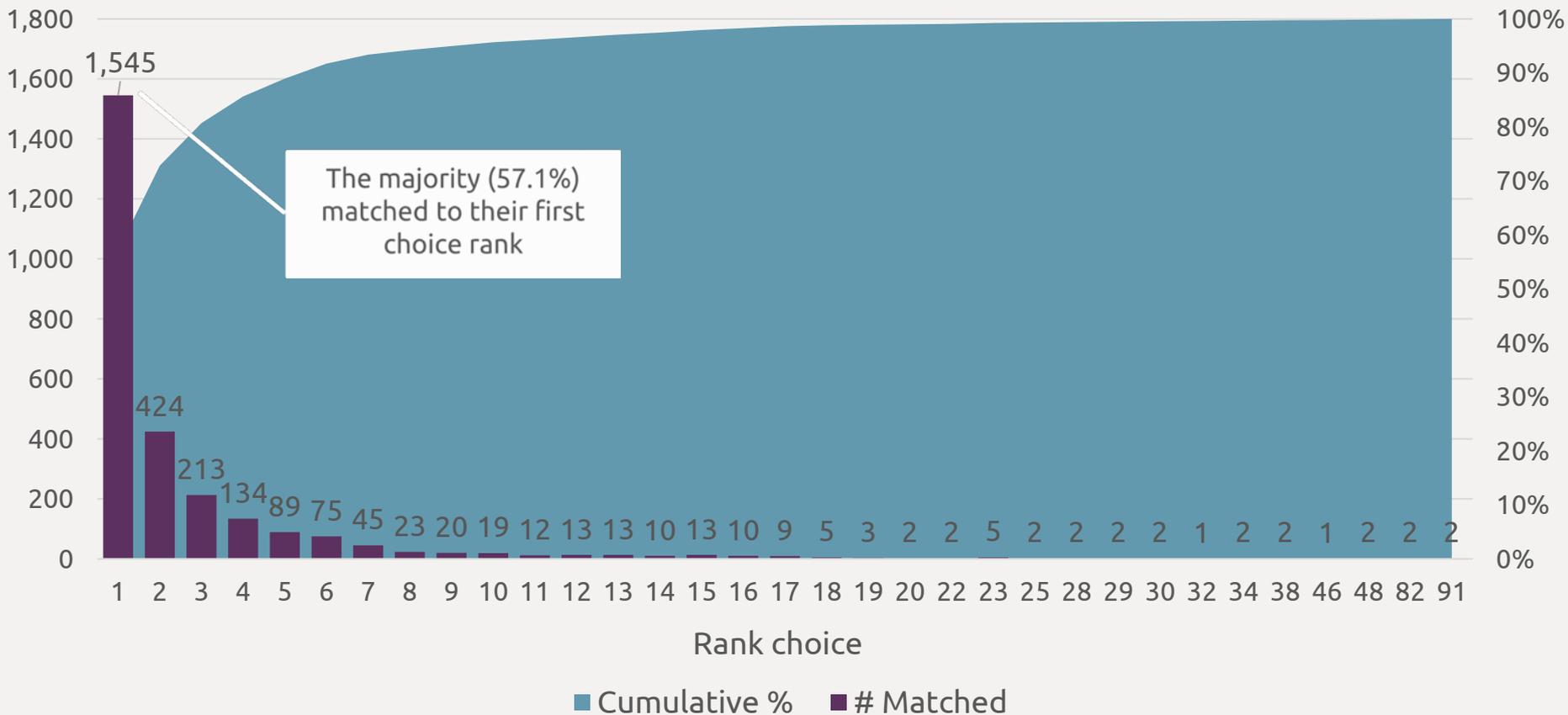
CMGs matched to first choice discipline (1995-2017)

2017: 87.4%

Min: 86.4% in 2001
Max: 92.1% in 2011
Range: 5.7%
Average: 89.4%
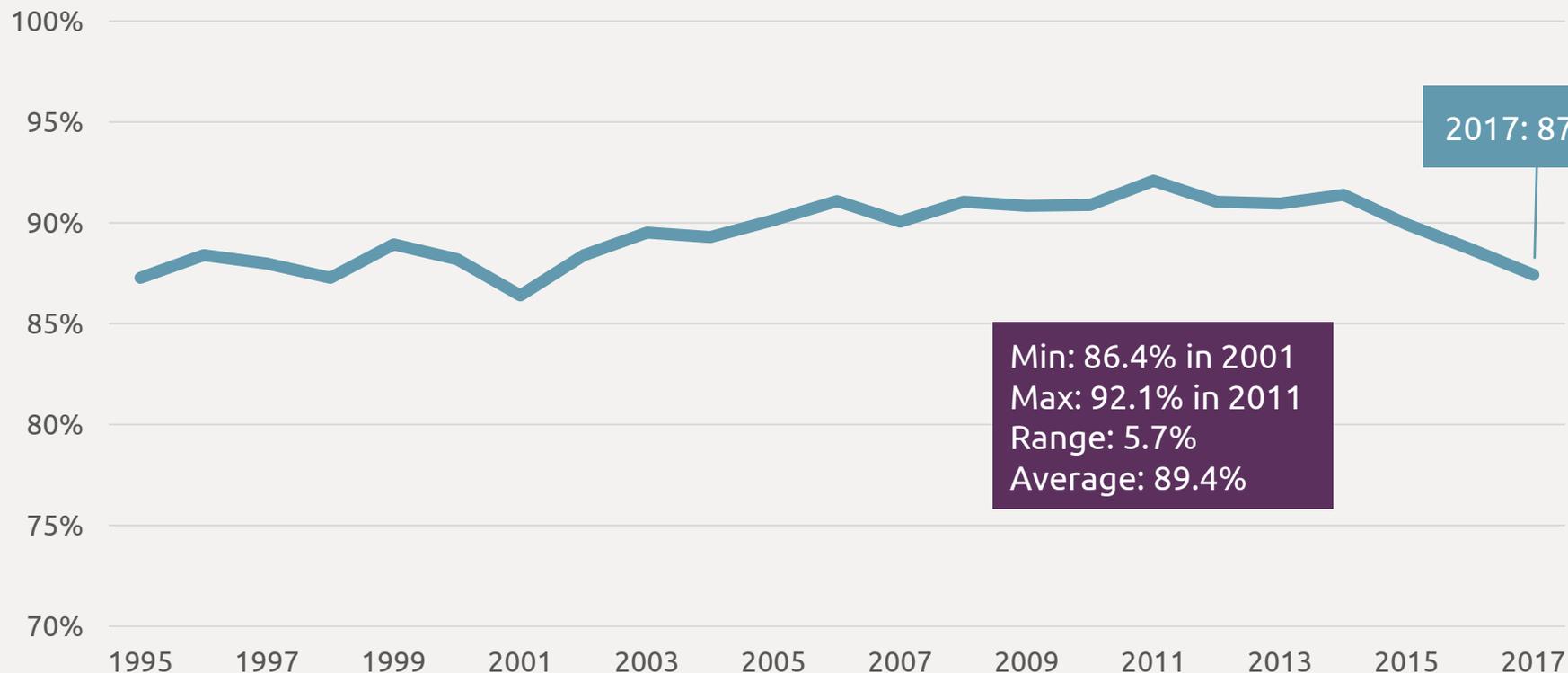
CMGs matched to first choice discipline by region (2012-2017)

Ontario: 93.2%

Western: 89.5%

Eastern: 88.3%

National: 87.4%

Quebec: 79.1%

Eastern　Ontario　Quebec　Western　National
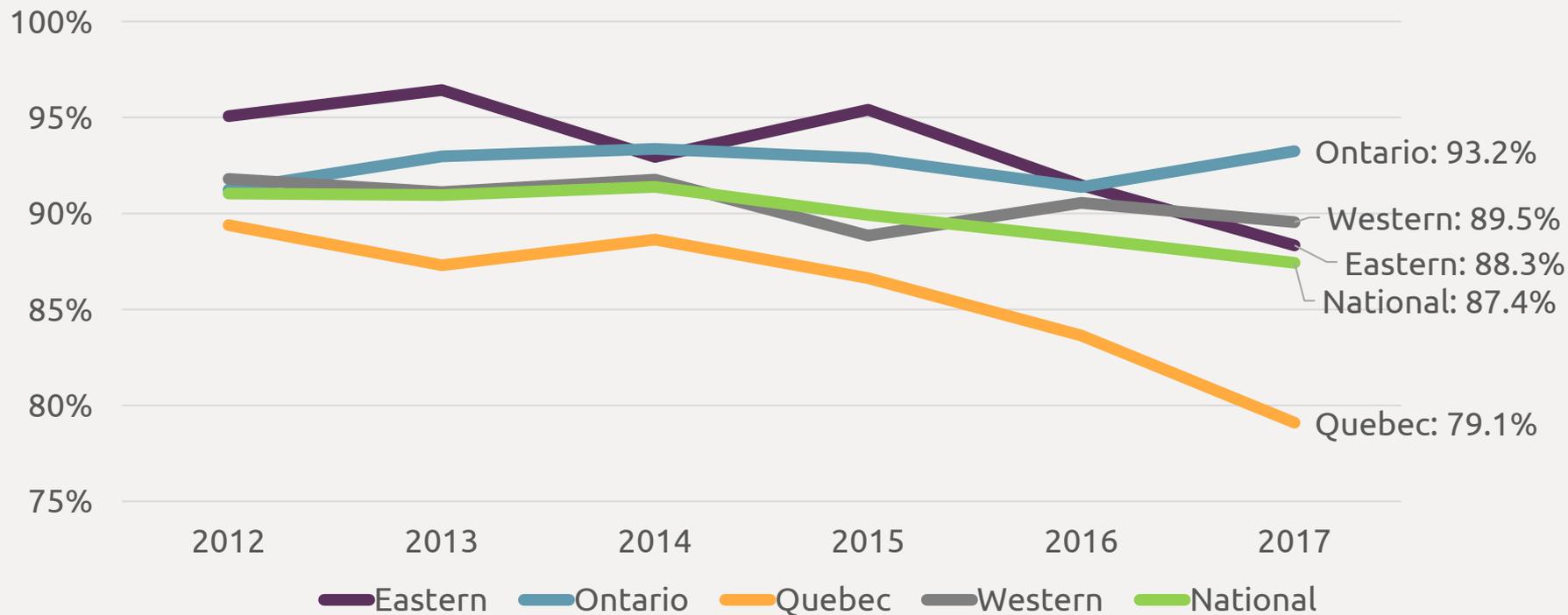
CMGs matched to one of their top three program choices (1995-2017)
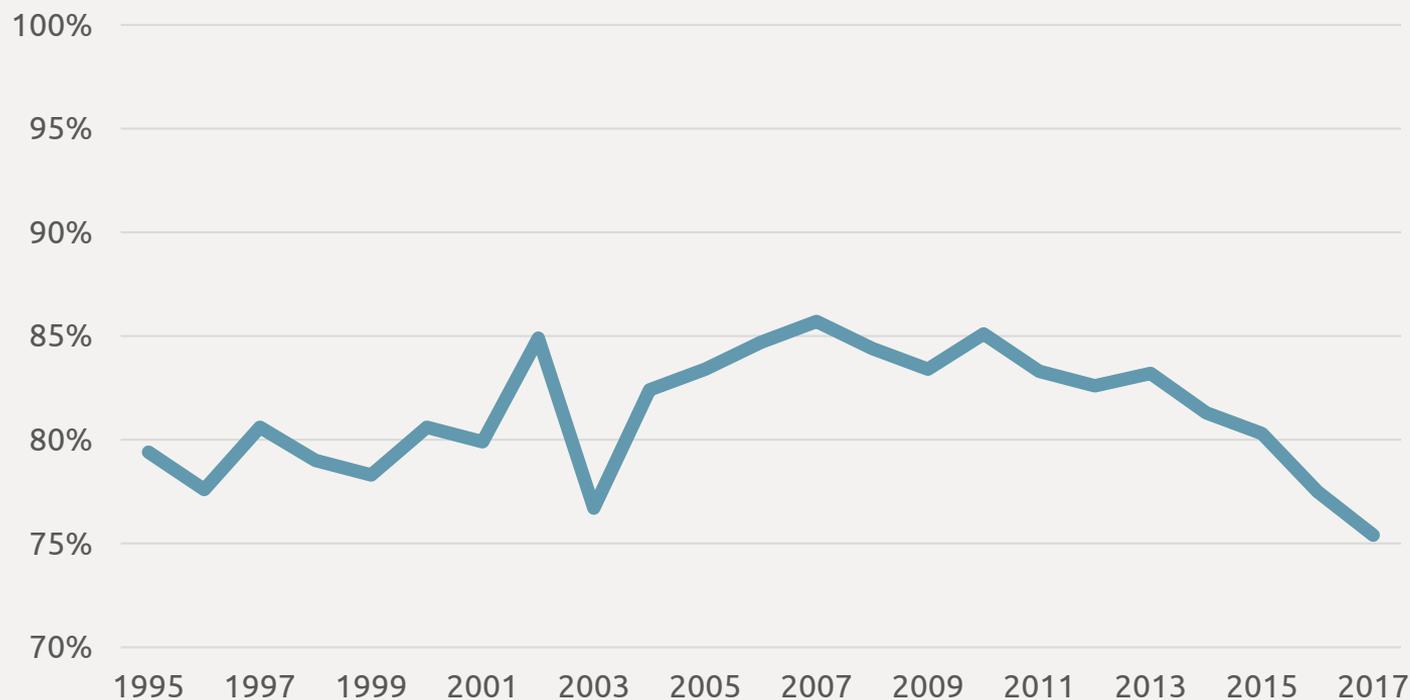
Program choice 2017	
First	53.4%
Second	14.7%
Third	7.4%
Fourth	4.6%
Fifth	3.1%
Sixth	2.6%
Seventh	7.7%

CMG discipline choices (1995-2017)
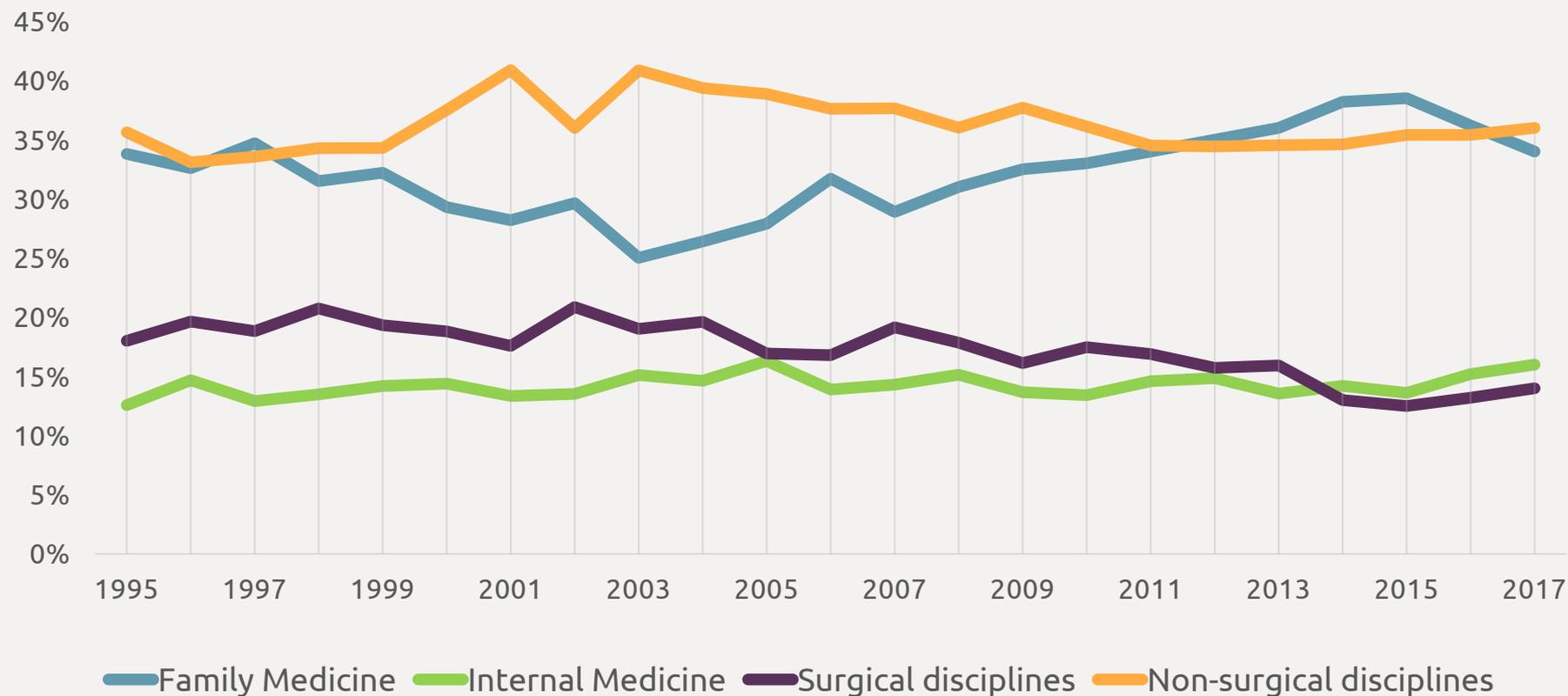
First choice disciplines for CMGs (2015-2017)

Top 10 first choice disciplines	2015	2016	2017
Family Medicine	38.5%	36.2%	34.0%
Internal Medicine	13.6%	15.2%	16.0%
Surgical disciplines	12.5%	13.2%	13.8%
Psychiatry	6.0%	6.0%	6.2%
Pediatrics	5.5%	5.8%	5.9%
Anesthesiology	4.8%	4.8%	4.8%
Emergency Medicine	4.2%	4.4%	4.1%
Obstetrics & Gynecology	3.9%	3.8%	3.9%
Diagnostic Radiology	3.4%	2.6%	3.1%
Dermatology	1.8%	2.2%	2.1%

2015

35.1%
64.2%
0.7%

2016

35.6%
62.2%
2.2%

2017

42.9%
56.5%
0.6%
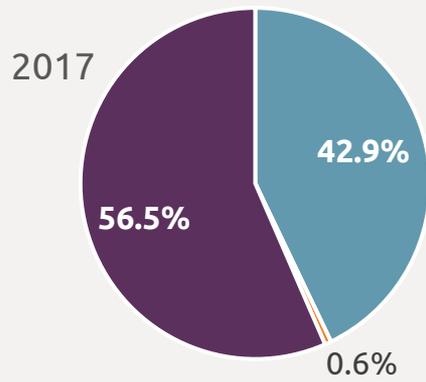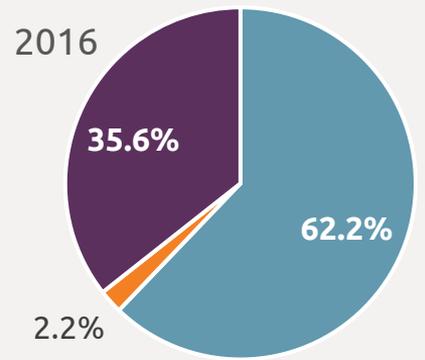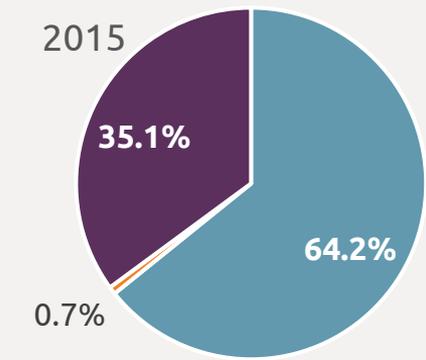
■ Supply > demand
■ Supply = demand
■ Demand > supply

Supply and demand

First iteration participation and quota, second iteration unmatched (2007-2017)
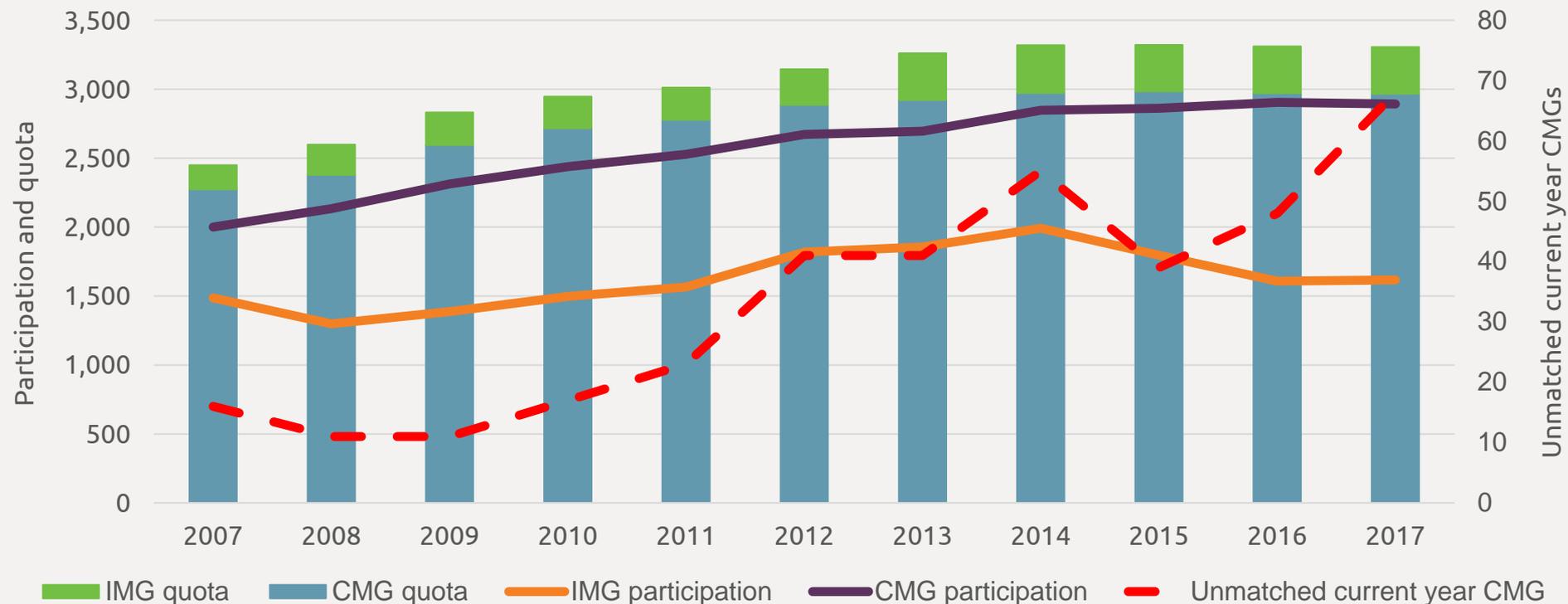
CMG quota, participation and ratio (2008-2017)

Year	Participation - current year CMGs	Prior year	Quota	Ratio of quota to CMGs
2008	2,089	45	2,379	1.11
2009	2,284	29	2,595	1.12
2010	2,403	35	2,717	1.11
2011	2,496	32	2,778	1.10
2012	2,626	46	2,886	1.08
2013	2,633	62	2,921	1.08
2014	2,779	68	2,973	1.04
2015	2,791	71	2,984	1.04
2016	2,836	68	2,970	1.022
2017	2,810	83	2,967	1.026

Participation - current year CMGs ■ Participation - prior year CMGs ▬ Quota ⬤ Ratio of quota to CMGs

Quota and CMG count by region in 2017

* Pre-screened IMGs can apply for all positions in Quebec

Legend: IMG quota | CMG quota | Prior year CMGs | Current year CMGs

Regions: Western, Quebec, Ontario, Eastern
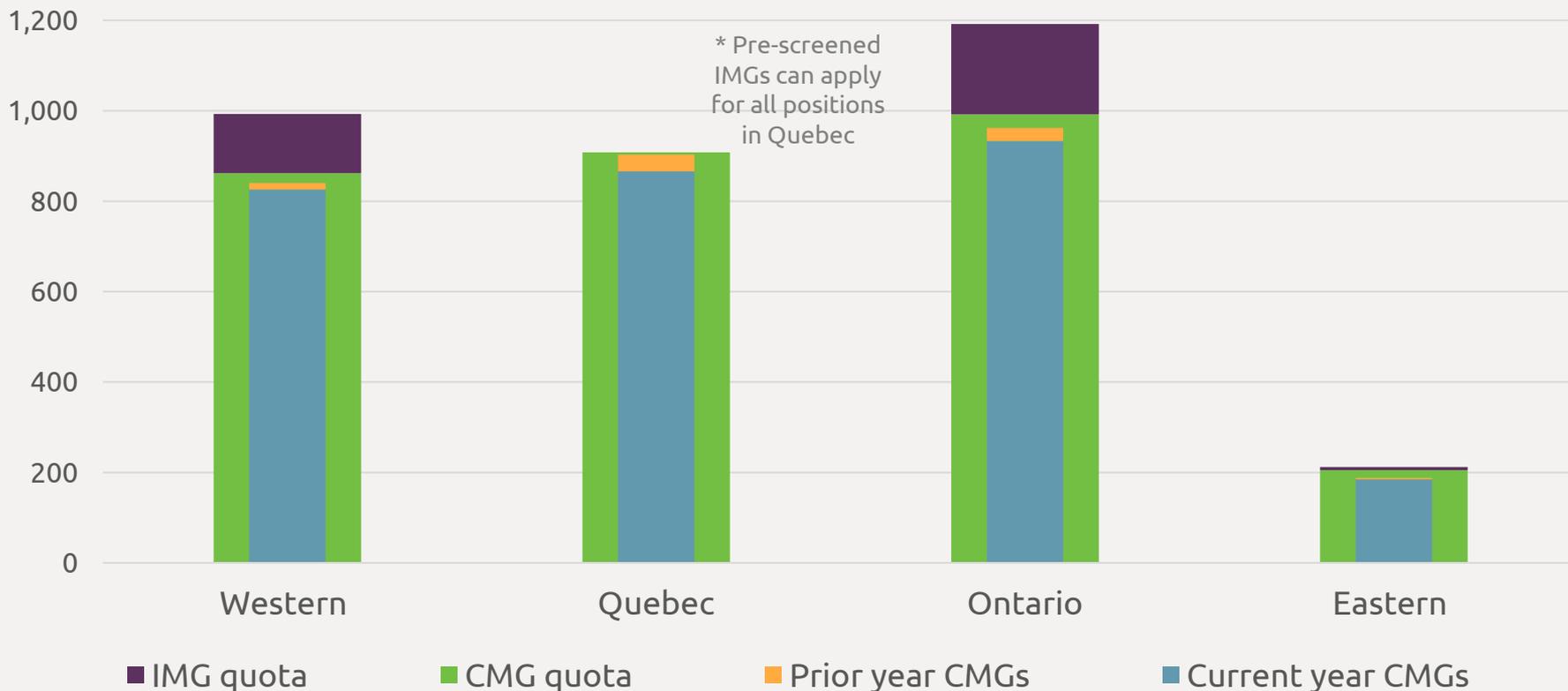
Supply and demand ratio: CMG quota filled in 2017

Legend: Western, Ontario, Quebec, Eastern, National
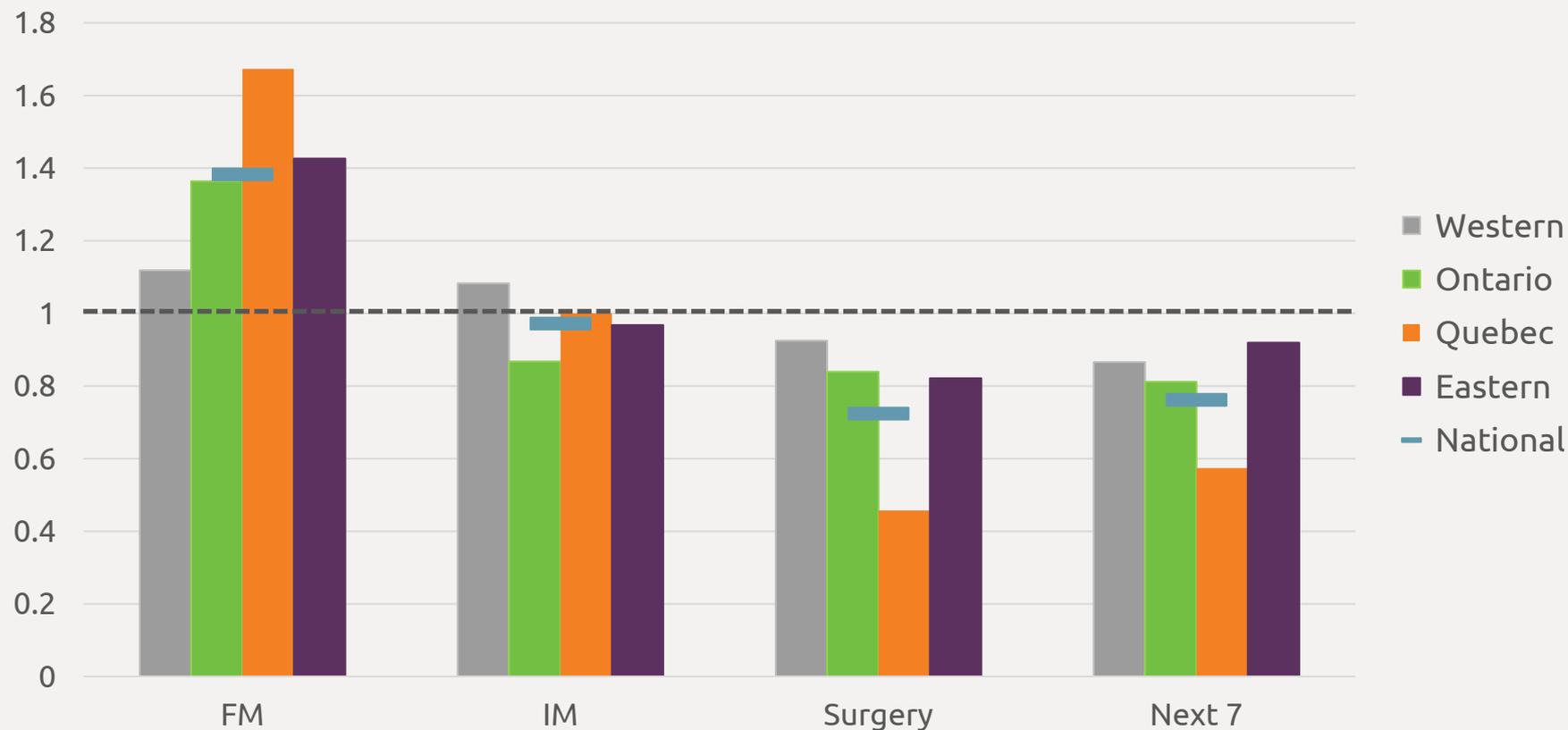
Supply and demand ratio: CMG quota filled for Family Medicine (2012-2017)
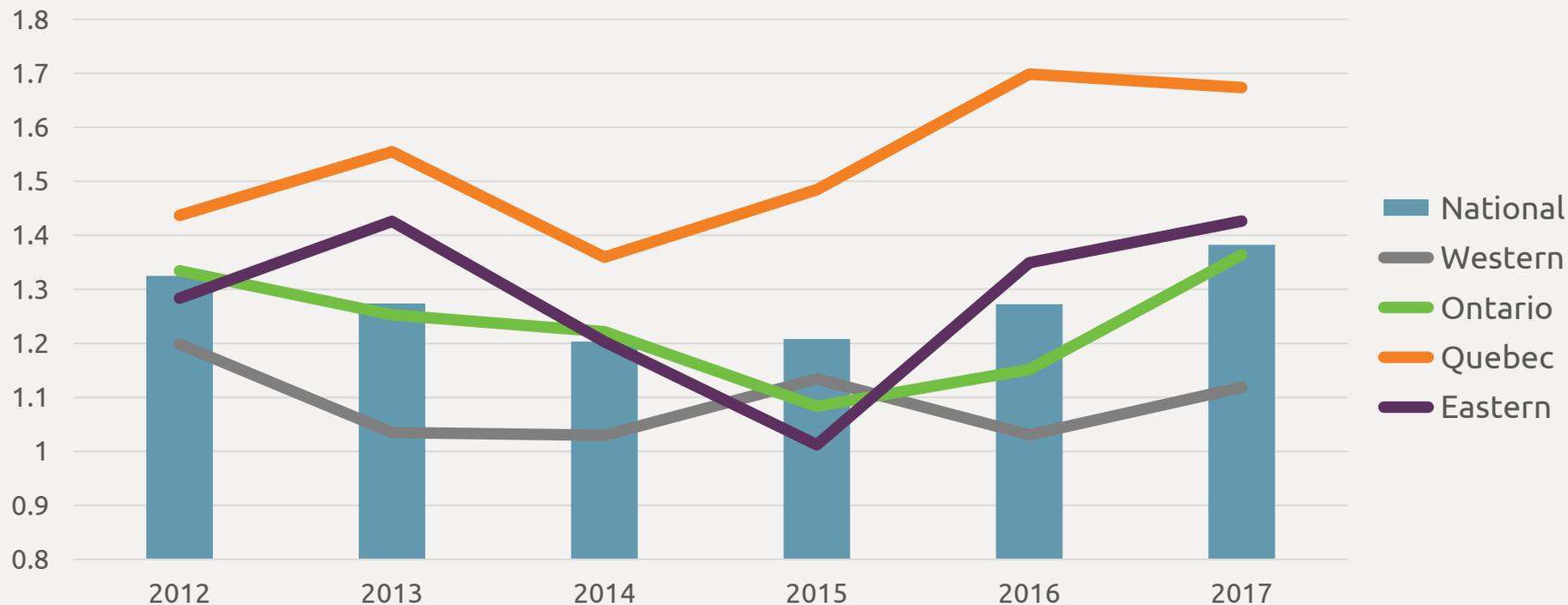
First choice discipline compared to availability (supply > demand)

Discipline	Value
Hematological Pathology	3.00
General Pathology	2.67
Neuropathology	2.50
Medical Microbiology	2.50
Radiation Oncology	2.22
Nuclear Medicine	2.00
Medical Genetics	2.00
Family Medicine	1.38
Public Health and Preventive Medicine	1.26
Anatomical Pathology	1.24
Psychiatry	1.01
Vascular Surgery	1.00
Neurology - Pediatric	1.00

(Positions/applicant first choice discipline)
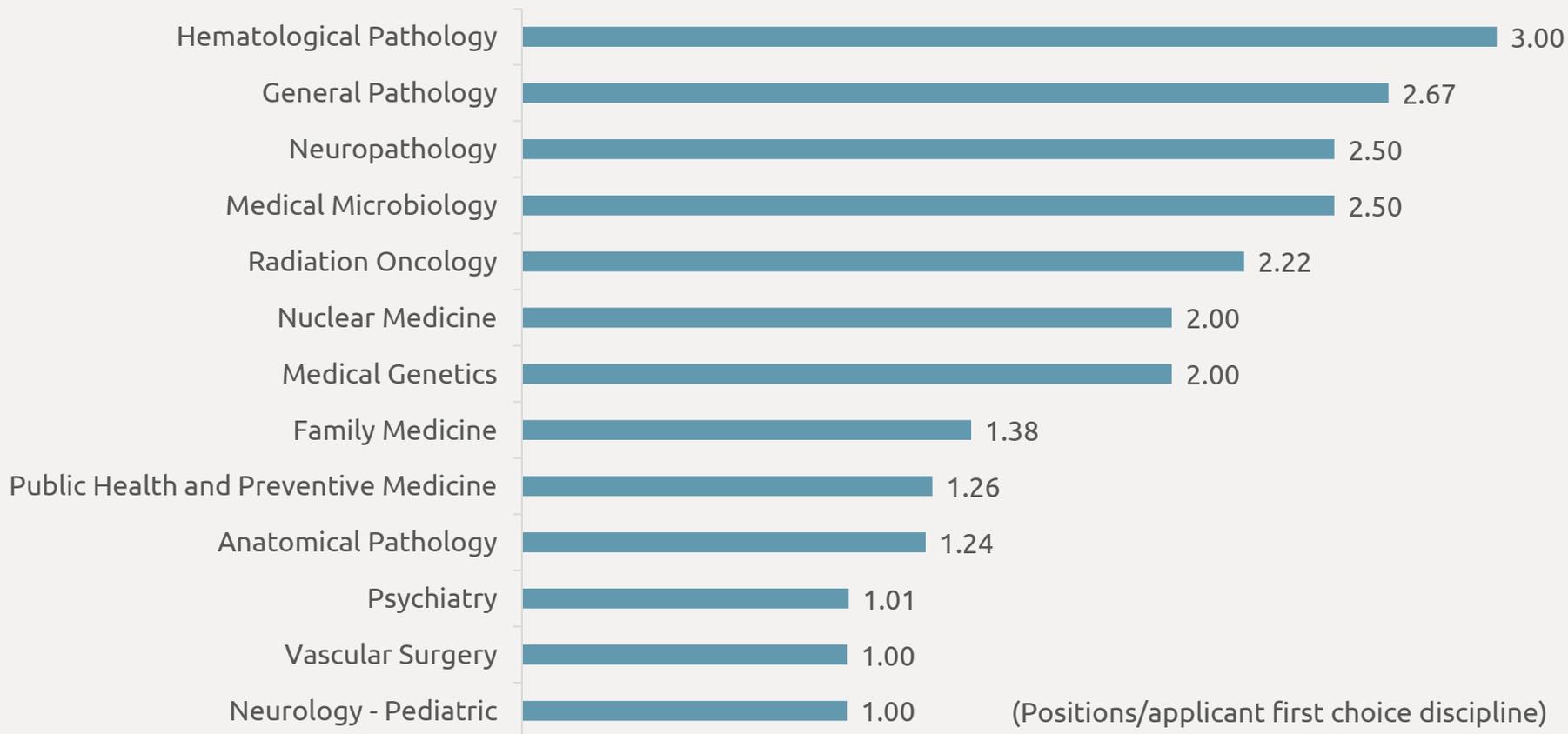
First choice discipline compared to availability (demand > supply)

Discipline	Value
Dermatology	0.51
Plastic Surgery	0.53
Emergency Medicine	0.56
Neurosurgery	0.58
Urology	0.63
Obstetrics and Gynecology	0.68
Ophthalmology	0.71
Otolaryngology	0.72
Neurology	0.72
Anesthesiology	0.72
Pediatrics	0.77
General Surgery	0.78
Cardiac Surgery	0.80
Diagnostic Radiology	0.88
Orthopedic Surgery	0.89
Physical Medicine & Rehabilitation	0.90
Internal Medicine	0.97

(Positions/applicant first choice discipline)

Highest demand ratios: CMGs first discipline choice compared to availability (2015-2017)

Lowest demand ratios: CMGs first discipline choice compared to availability (2015-2017)

Average: 2.93

2015
- GENPATH — 28.6% Fill rate
- MEDMICR — 25%
- NEUPATH — 50%
- NUCMED — 50%
- ANPATH — 72.5%

2016
- HEMPATH — 40%
- MEDGENE — 42.9%
- ANPATH — 72.8%
- GENPATH — 42.9%
- PHPM — 71.4%

2017
- HEMPATH — 33.3%
- GENPATH — 50%
- MEDMICR — 40%
- NEUPATH — 60%
- RADONC — 65%
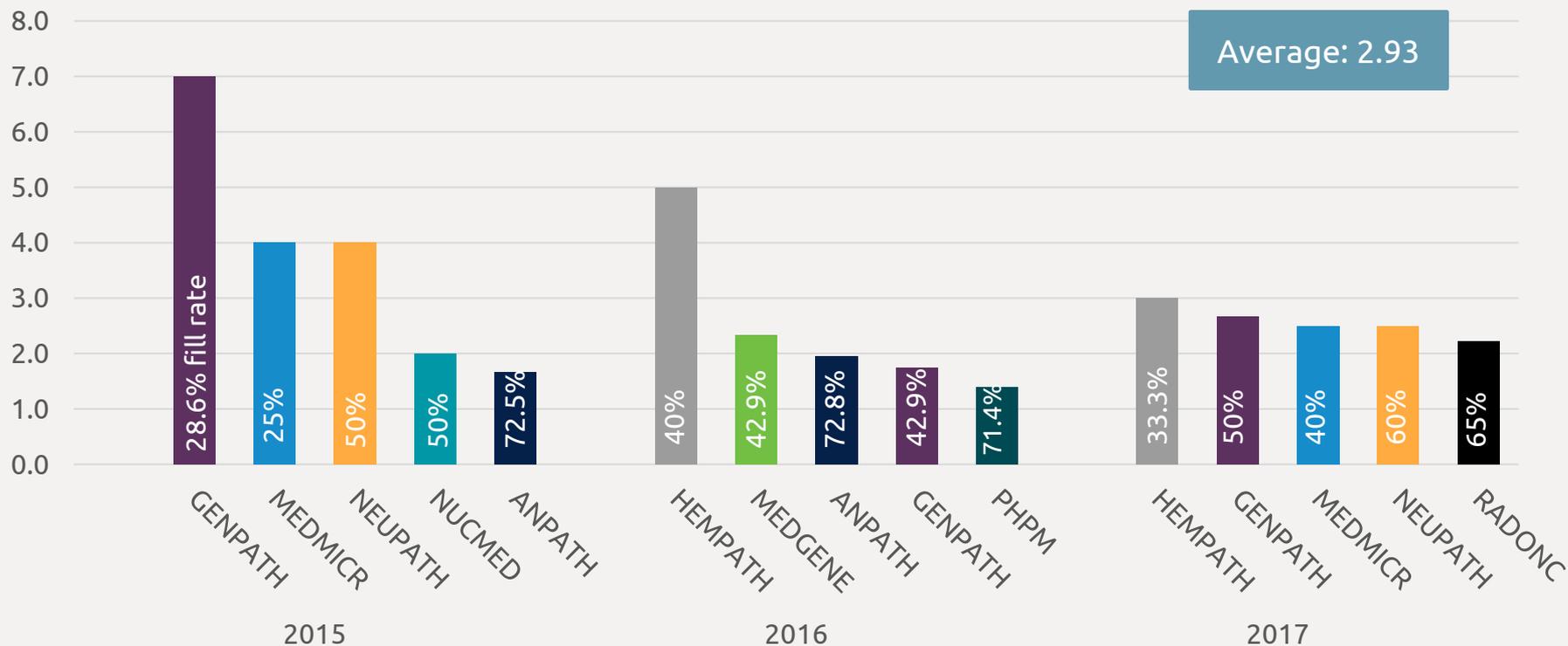
Interactive data tool demo

Click Here to Group Surgical Disciplines

- Non-surgical Disciplines
- Surgical Disciplines

Filter Graph by Discipline

- Neurology
- Neurology - Pediatric
- Neuropathology
- Neurosurgery
- Nuclear Medicine
- OBS/GYN
- Occupational Medicine
- Ophthalmology
- Orthopedic Surgery
- Otolaryngology
- Pediatrics
- Physical Medicine & Rehabilitation
- Plastic Surgery
- Psychiatry
- Public Health & Preventative Medicine
- Radiation Oncology
- Urology
- Vascular Surgery

Open in Excel

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Quota	2101	2274	2379	2595	2720	2778	2886	2913	2972	2984	2970
Filled	1893	1986	2138	2286	2435	2485	2624	2634	2760	2789	2786
Ranked discipline as 1st choice	1936	2000	2134	2313	2438	2528	2672	2695	2847	2862	2904
Applications	3445	3745	3782	4259	4201	4271	4724	4720	5018	4967	5199
Quota Fill Rate (%)	90%	87%	90%	88%	90%	89%	91%	90%	93%	93%	94%

IMG results

Number of IMG registrants (2008-2017)

Mandatory NAC OSCE

■ New IMG registrants

■ Returning IMG registrants

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New IMG registrants	1,077	1,145	1,263	1,424	1,579	1,614	1,600	995	954	1,109
Returning IMG registrants	985	1,103	1,183	1,357	1,508	1,551	1,564	1,526	1,351	1,386
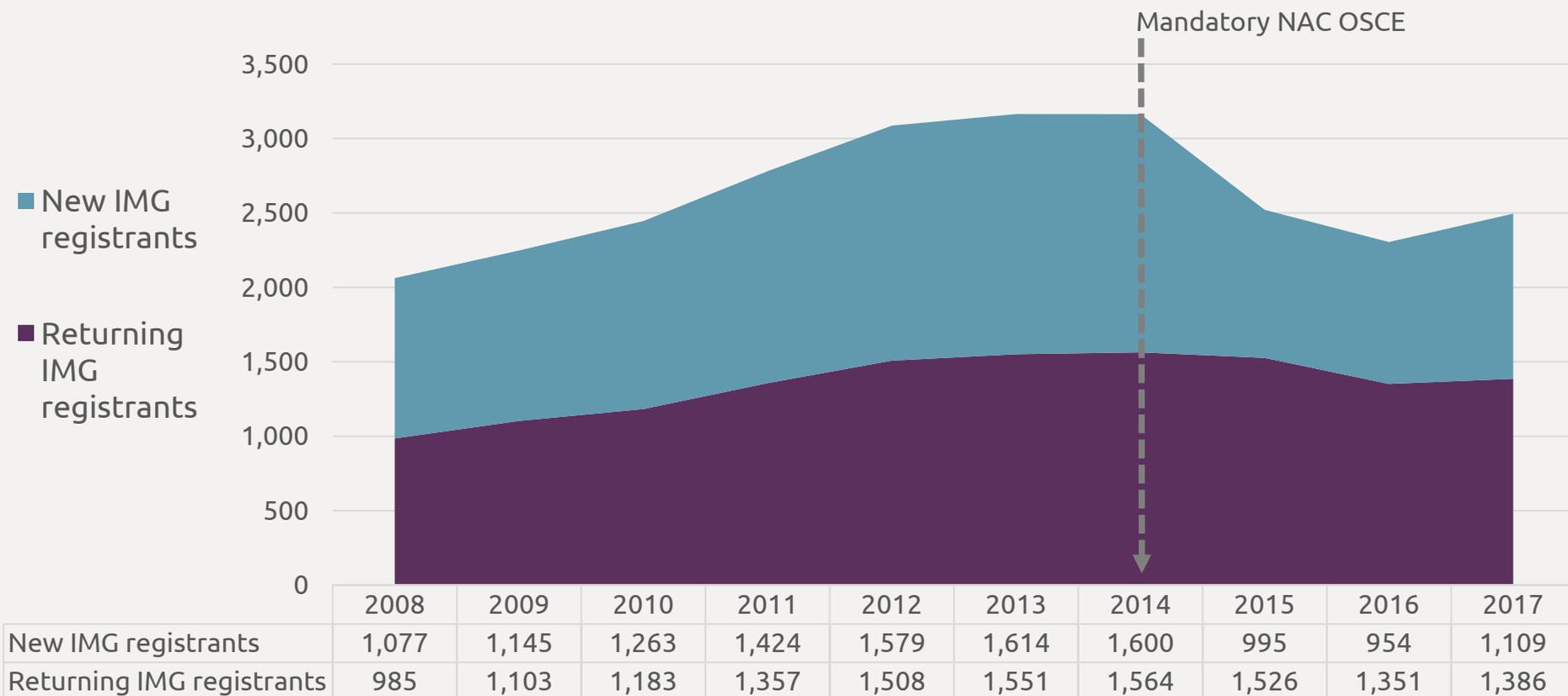
Where IMGs are training

14.1%

9.0%

5.8%

5.8%

51.3%

10.0%

0.7%

3.2%
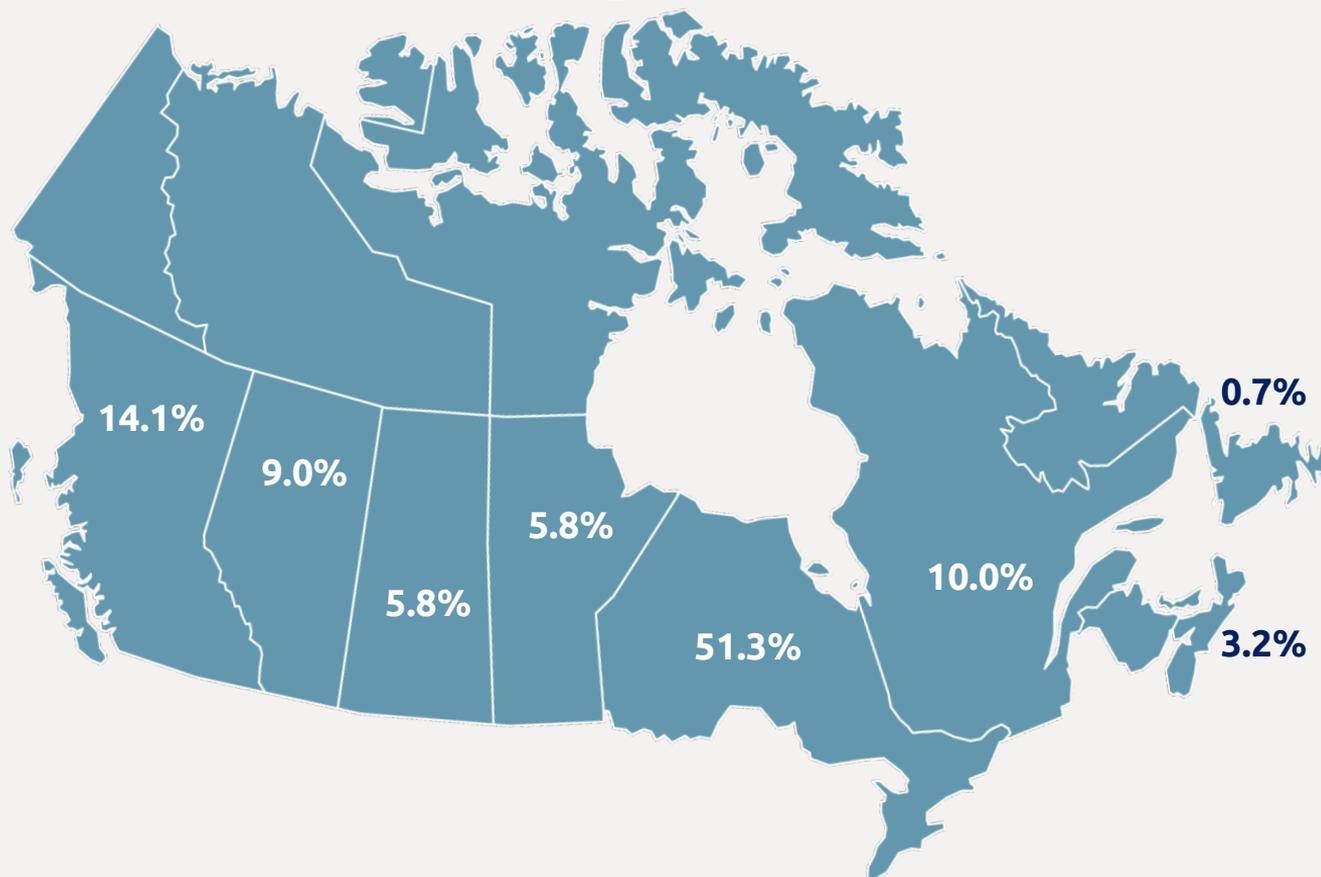
Regional IMG match results

Region	Final participation	% matched
Africa	247	13%
Asia	377	15%
Central America/Caribbean	389	20%
Europe	421	37%
Middle East	269	18%
Mexico	6	17%
Oceania/Pacific Islands	61	46%
South America	41	22%

Where IMG participants went to medical school
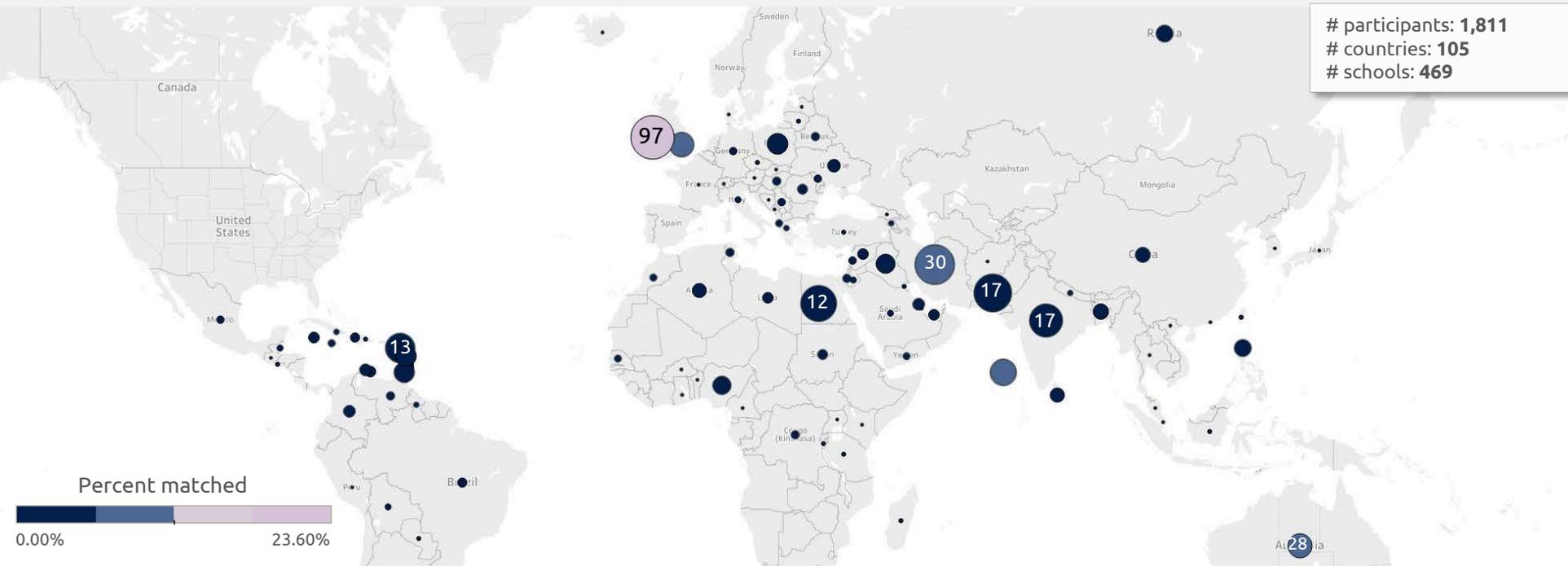
participants: **1,811**
countries: **105**
schools: **469**

Percent matched

0.00%   23.60%

Country: Ireland	**Country:** Iran	**Country:** Pakistan	**Country:** Egypt	**Country:** India	**Country:** Australia	**Country:** Saint Kitts and Nevis
Matched: 23.60%	**Matched:** 7.30%	**Matched:** 4.14%	**Matched:** 2.92%	**Matched:** 4.14%	**Matched:** 6.81%	**Matched:** 3.16%
Final participation: 197	**Final participation:** 163	**Final participation:** 147	**Final participation:** 133	**Final participation:** 113	**Final participation:** 61	**Final participation:** 89

Unmatched and unfilled

Unmatched current year CMGs after second iteration (2007-2017)

Min: 0.5%
Max: 2.4%
Range: 1.9%
Average: 1.3%

Unmatched current year CMGs after second iteration, by school
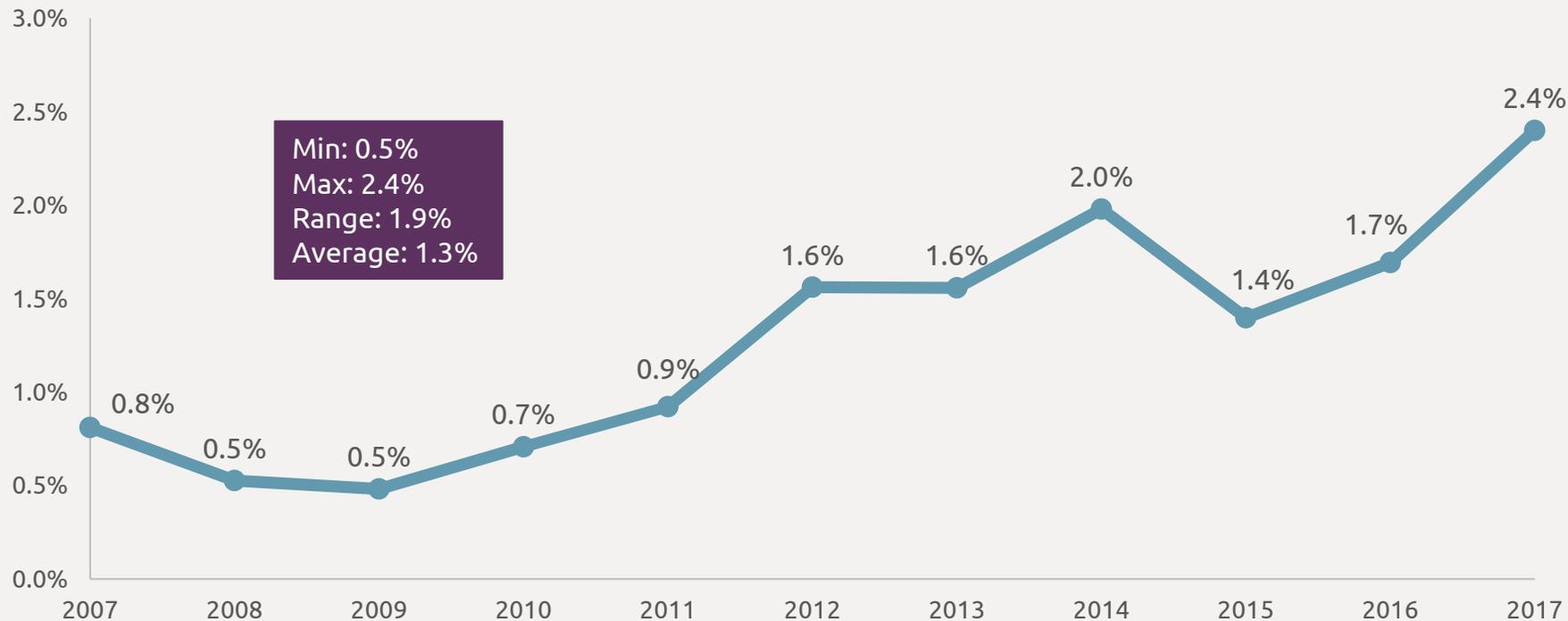
Categorizing unmatched CMGs

2015 — N=39: 38%, 54%, 5%, 3%

2016 — N=46: 26%, 56%, 7%, 11%

2017 — N=68: 32%, 50%, 13%, 5%
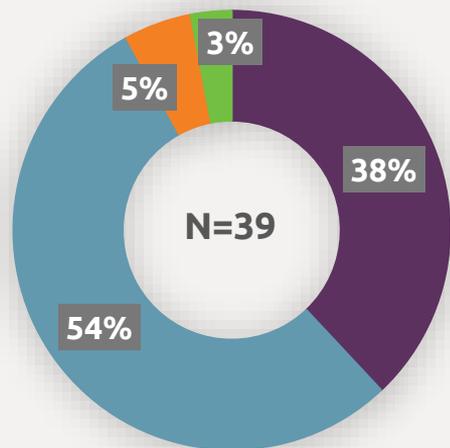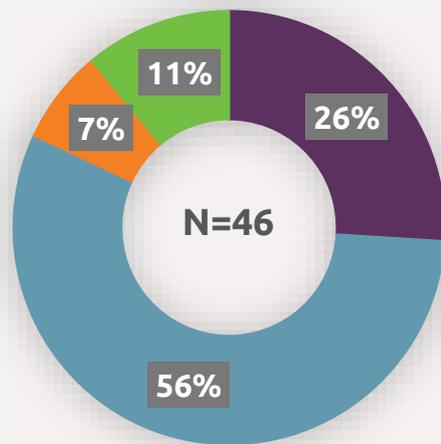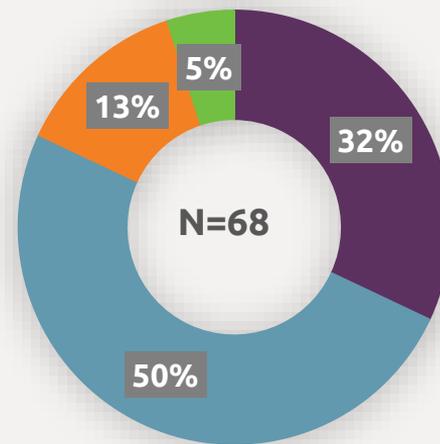
- Applicants ranked by no programs
- Applicants ranked by some programs but programs filled before rank
- Applicants ranked by all programs but programs filled before rank
- Applicants who could have matched but did not rank the program

Unmatched CMG journey (2013)

Unknown Journey

4

2013 second iteration

matched 59
unmatched 41

35

2014 first iteration

matched 30
unmatched 5

2

5

2015 second iteration

matched 0
unmatched 1

2015 first iteration

matched 1
unmatched 2

1

2014 second iteration

matched 2
unmatched 3

1

2

Unknown Journey

1

1

2016 first iteration

matched 1
unmatched 1

1

2016 second iteration

matched 0
unmatched 1

1

2017 first iteration

matched 0
unmatched 1

1

2017 second iteration

matched 1
unmatched 0

Net unmatched: **0**
Net unknown journey: **6**

Unmatched CMG summary

New

Match year	Participants	% matched in match year	Number unmatched (1st and 2nd)	Number subsequently matched	% matched to date	Remaining unmatched	Unknown journey
2013	2,635	97.57	62	49	99.43	1	14
2014	2,781	97.45	71	51	99.28	2	18
2015	2,792	97.71	64	51	99.53	5	8
2016	2,838	97.29	77	59	99.37	8	10

Unfilled positions by discipline

Discipline	After first iteration	After second iteration
Family medicine	158	56
Psychiatry	10	1
PHPM	7	-
Radiation Oncology	7	-
Anatomical Pathology	5	3
General Pathology	4	-
Internal medicine	4	-
Medical microbiology	4	2
Diagnostic Radiology	3	-
Nuclear Medicine	3	-
Hematological Pathology	2	1

Discipline	After first iteration	After second iteration
Medical Genetics	2	-
Neuropathology	2	1
Pediatrics	2	-
Dermatology	1	-
Medical Biochemistry	1	-
Neurology	1	-
Neurology - Pediatric	1	-
Physical Med & Rehab	1	-
Urology	1	-
TOTAL	**219**	**64**

Unfilled positions and unmatched graduates after second iteration, by region
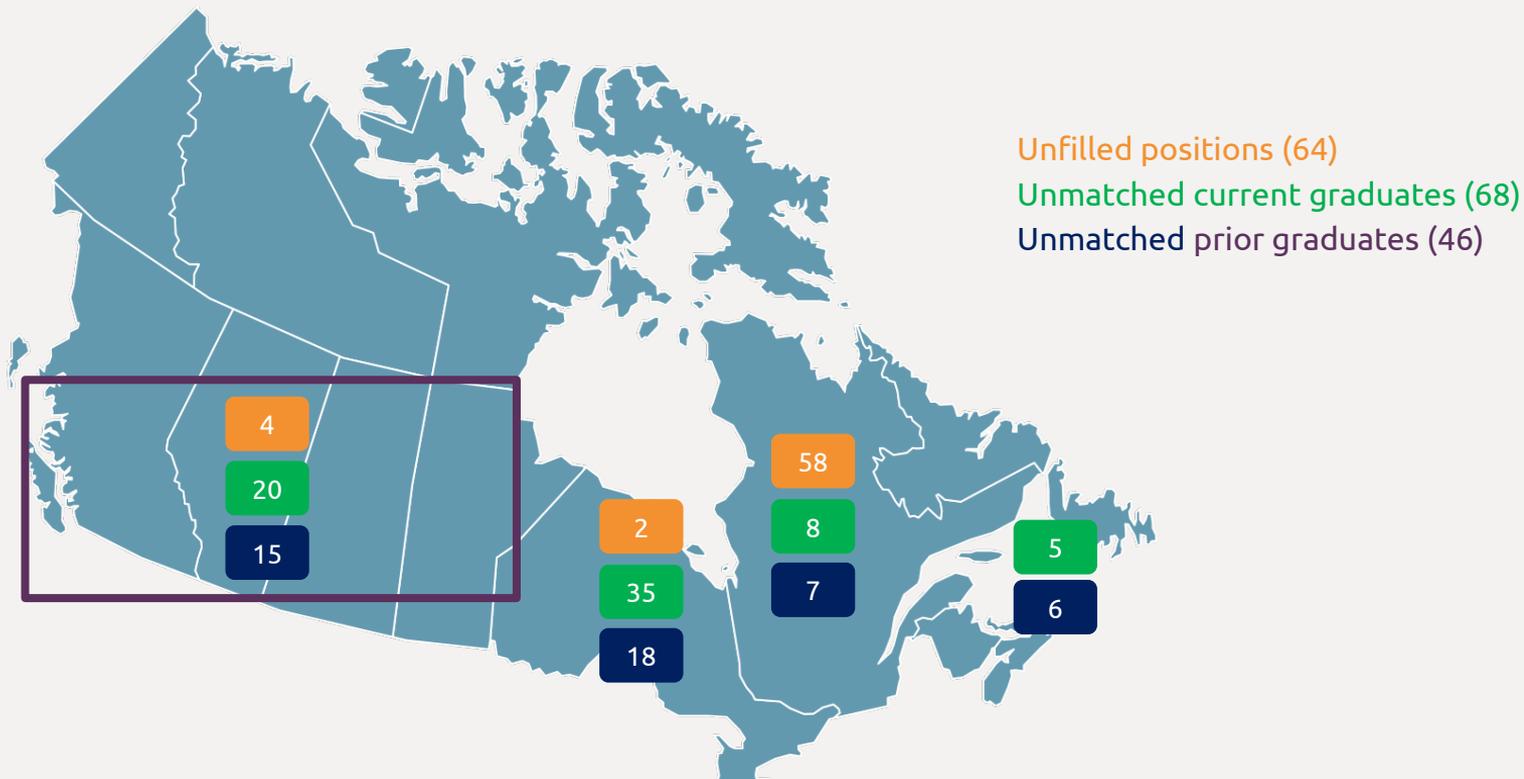
Unfilled positions (64)
Unmatched current graduates (68)
Unmatched prior graduates (46)

4
20
15

58
8
7

2
35
18

5
6

Unfilled positions and unmatched graduates after second iteration, by language

Unfilled positions

French	English
58	**6**

Unmatched current year graduates

French **2**   Bilingual **4**   English **62**

Unmatched prior year graduates

French **1**   Bilingual **7**   English **38**

Unfilled positions and unmatched graduates after second iteration, by language
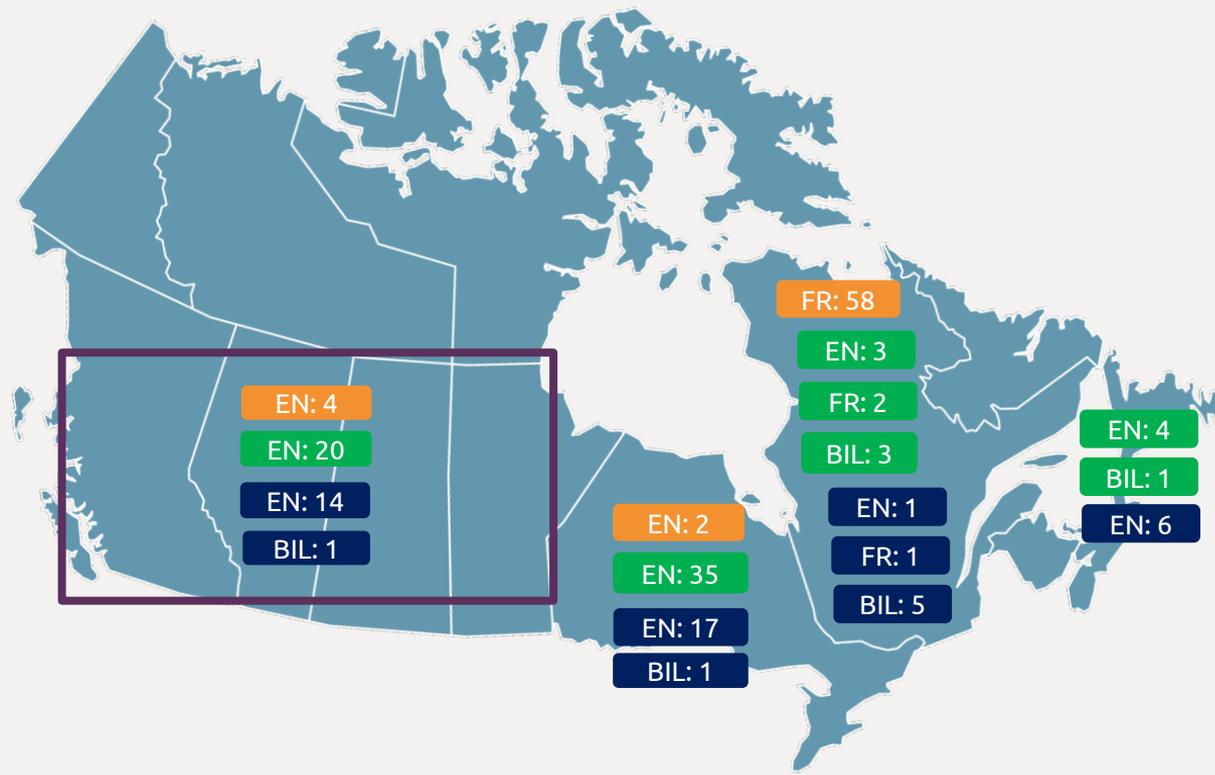
Unfilled positions (64)
English (6)
French (58)
Unmatched current grads (68)
English (62)
French (2)
Bilingual (4)
**Unmatched prior grads (46)**
English (38)
French (1)
Bilingual (7)

Map labels:

FR: 58
EN: 3
FR: 2
BIL: 3

EN: 4
BIL: 1
EN: 6

EN: 1
FR: 1
BIL: 5

EN: 4
EN: 20
EN: 14
BIL: 1

EN: 2
EN: 35
EN: 17
BIL: 1

Revisiting the 2017 R-1 match national highlights

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Graduate type	Current Year		Prior Year	
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3,086

64

155

■ Filled ■ Unfilled

Available positions and applicant interest

- When factoring in prior year participants – ratio is 1.02 for last two years
- Increased demand for Internal Medicine creates tipping point
- Interactive data provides discipline level insights

Program applications

- Continued increase
- Significant program effort in selection process evident in #s

Regional and language specific data

- Regional and language oriented data provides a new perspective in important areas

Unmatched Canadian graduates

- Current year increase
- Ultimate match % consistent over past four years