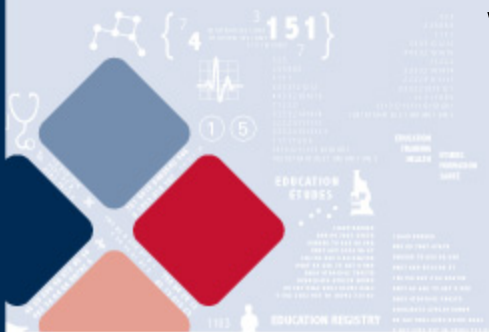


# Partnerships in Research

CCME AFMC/CAPER Forum

Winnipeg, April 30, 2017

Lynda Buske  
Manager, CAPER





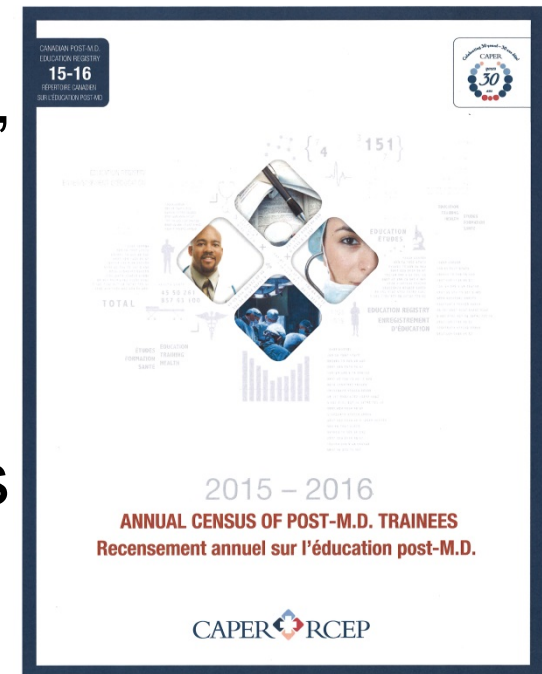
# What is CAPER?

## **CAPER: Canadian Post-MD Education Registry**

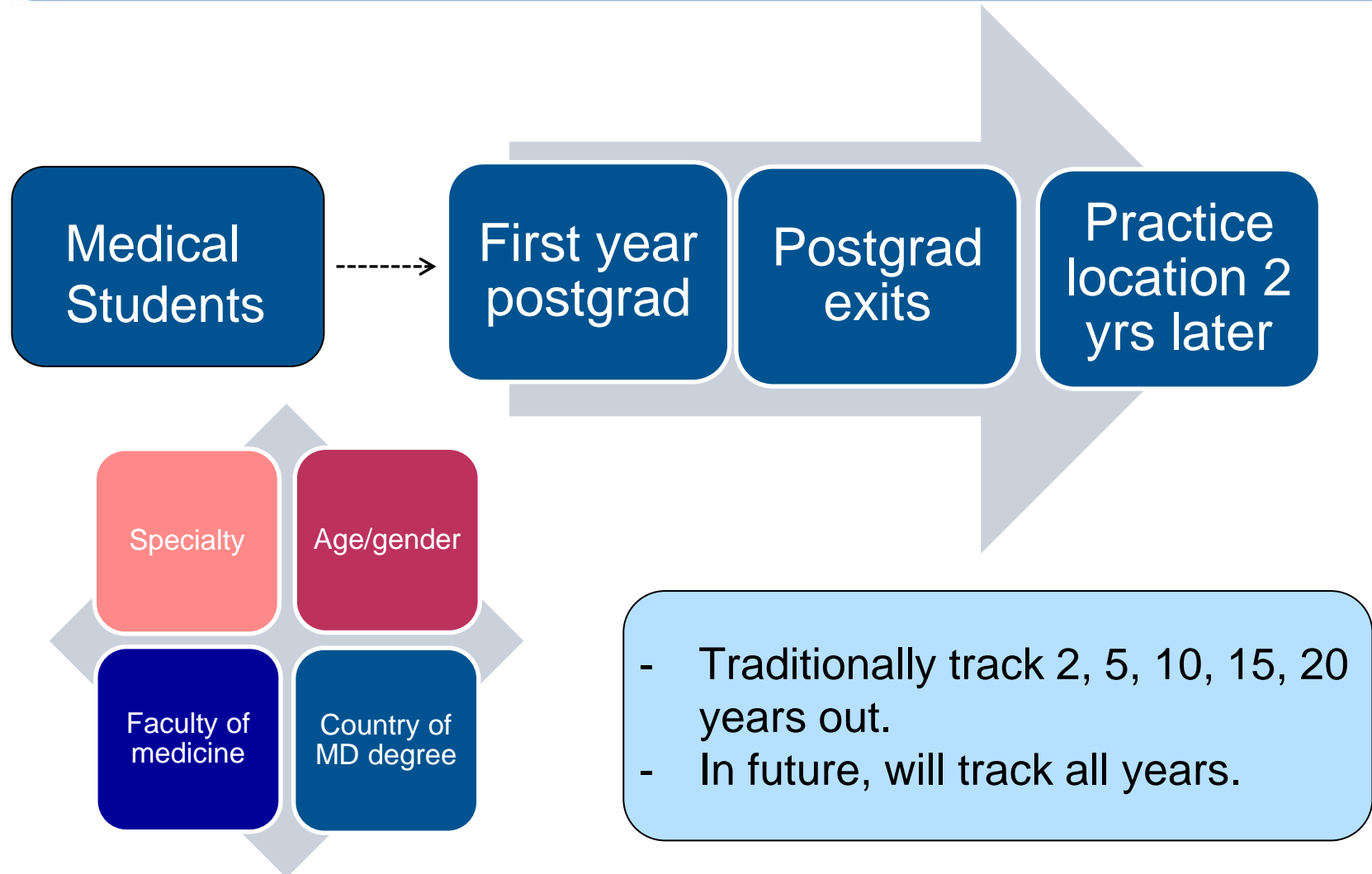
- Mission: *To be the definitive source of national longitudinal information and analysis on trainees within the Canadian postgraduate medical education system.*
- Established in 1986
- Funded by national medical organizations, prov/terr and federal governments
- Directed by CAPER Committee with input from CAPER Advisory Group
- Housed at AFMC & staffed by AFMC employees

# CAPER Products and Services

- Annual Census of postgraduate trainees
  - 1988/89 to 2015/16
  - Legal status, age, gender, MD school, location of PGY 1 site
  - Longitudinal analyses
  - Tracking into practice
- Provincial/specialty specific reports
- National IMG Database reports
- Fact sheets
- Custom requests (50-100 per year)



# Longitudinal analyses possible with CAPER





# Data Partnerships with Faculties

- Faculties of medicine submit **annual data files** reflecting a Nov census of postgraduate trainees.
- Password protected files or via CHEC
- Draft summary data tables and complete list of trainees returned to the faculty for verification.
- Signed form sent from faculty confirming the data, as compiled by CAPER, are correct.

Faculties of Medicine



Census of trainees as  
of Nov each year

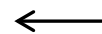


Password protected file  
or posted to CHEC

CAPER



Draft tables

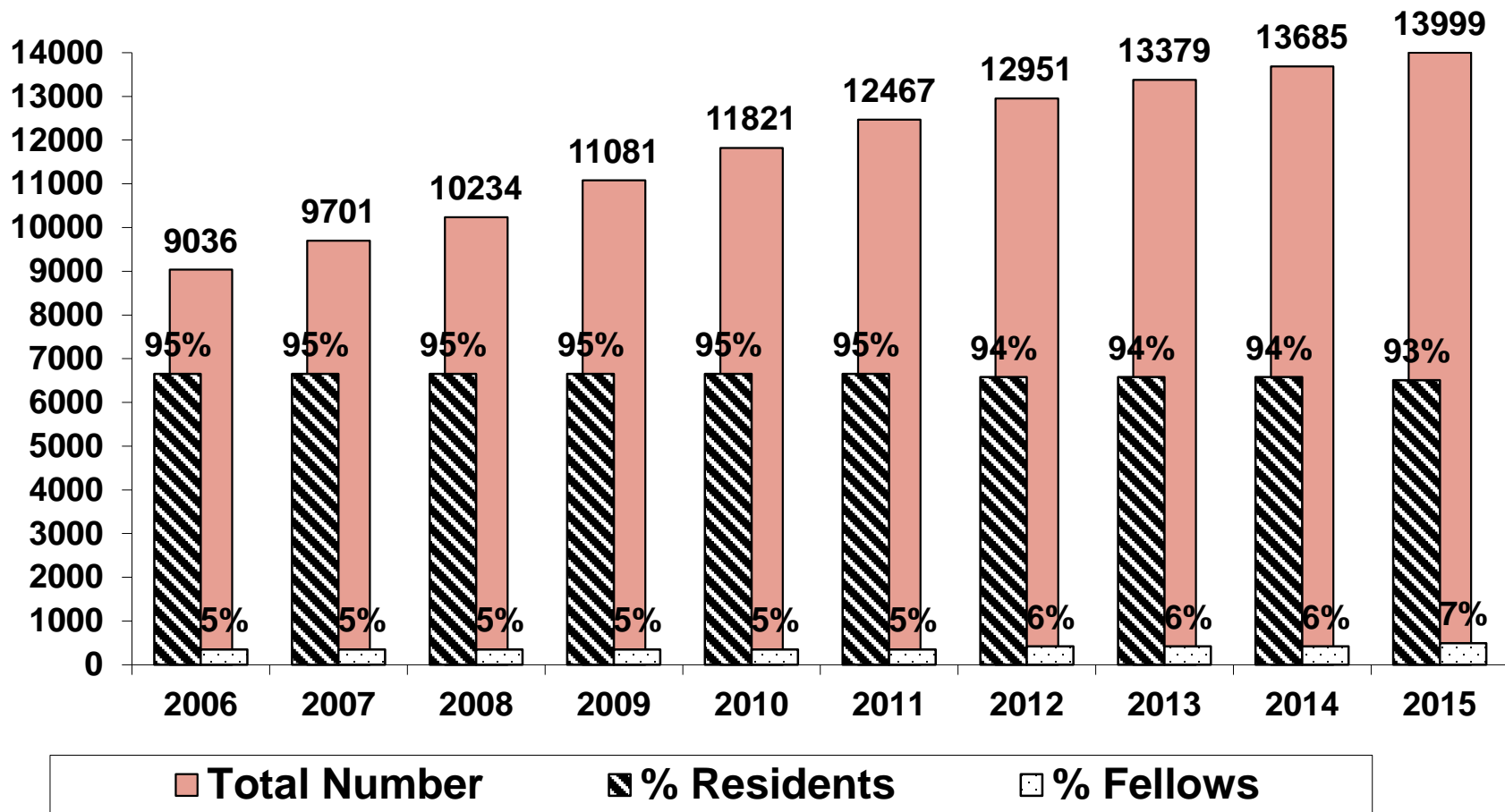


Verification sign off

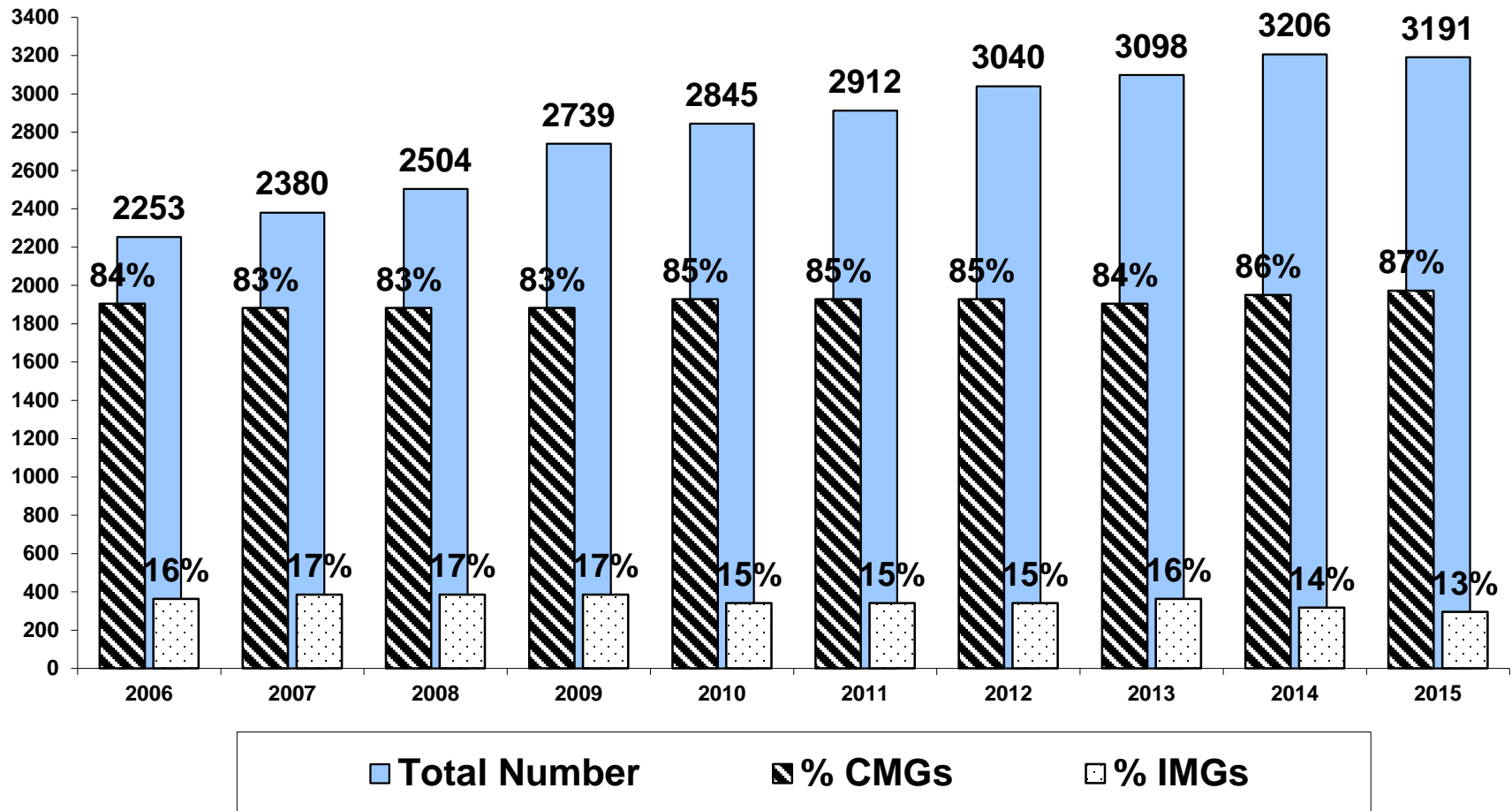


Faculties of Medicine

# All Residents and Fellows, Canadian citizens & permanent residents



# First Year Trainees by Place of M.D. Graduation, Canadian citizens & permanent residents





# Data partnerships with other organizations



- MOU with **CMA** to provide physician practice postal codes 2, 5, 10, 15, 20 years after exiting Canadian postgraduate training.



- **Medical Council of Canada** provides assessment information for IMGs via a data sharing agreement.



- **FMRAC** provides aggregate counts of licences granted to IMGs by province/territory.



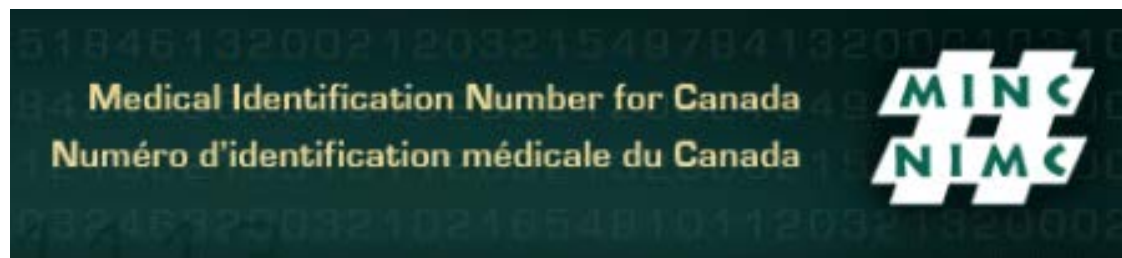
- **Health Canada** for J-1 Visa information.



- Postal codes of training sites from **CaRMS**

# MINC will facilitate some research partnerships

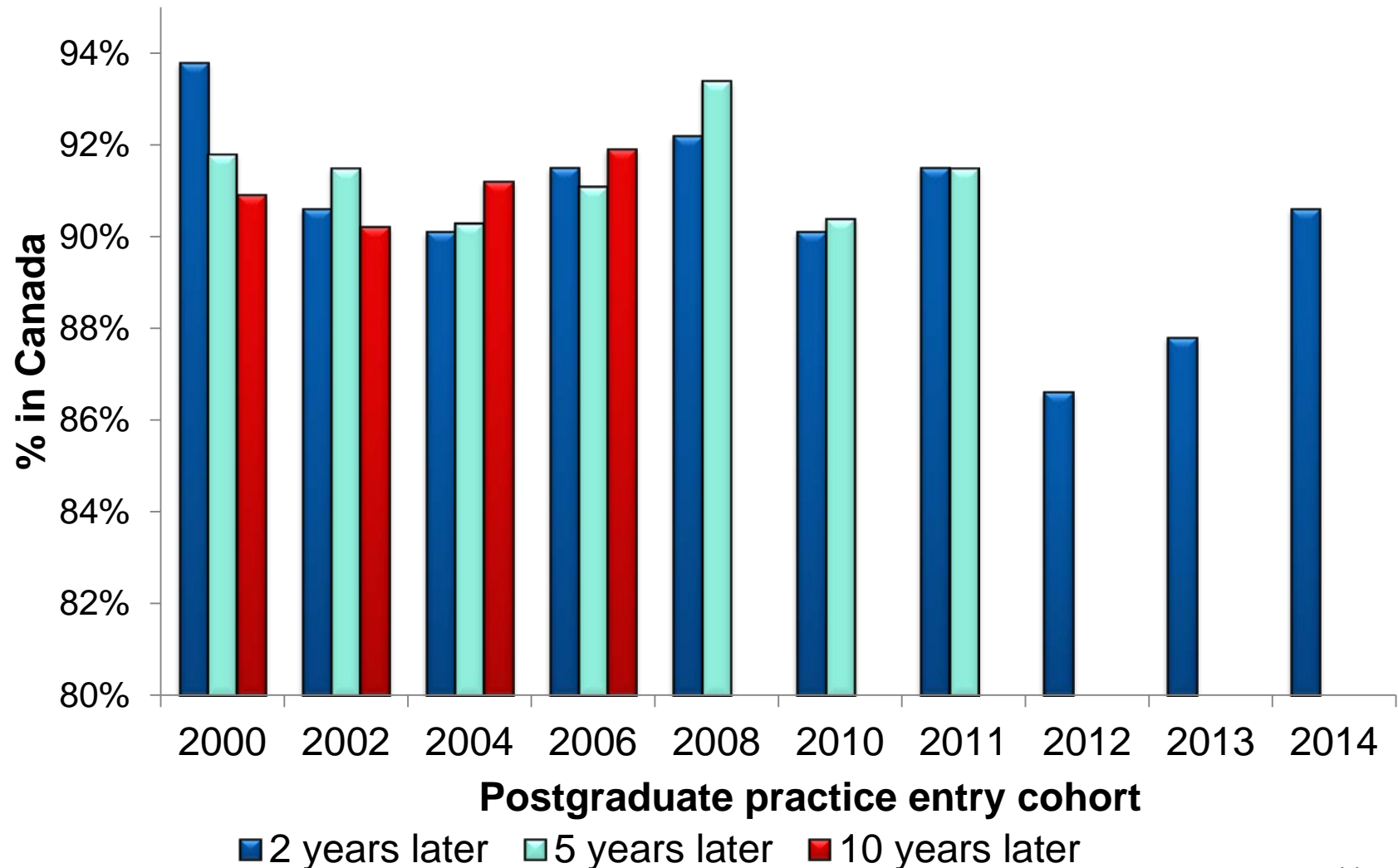
- Where possible data will be shared using the MINC number
- Faculties are in the process of incorporating MINC numbers into their data. CMA is already a licenced users as is CAPER.
- CAPER has assigned MINCs to all historical data has asked faculties to include in data submissions. If not yet feasible, CAPER will find number for new trainees from MINC hub.



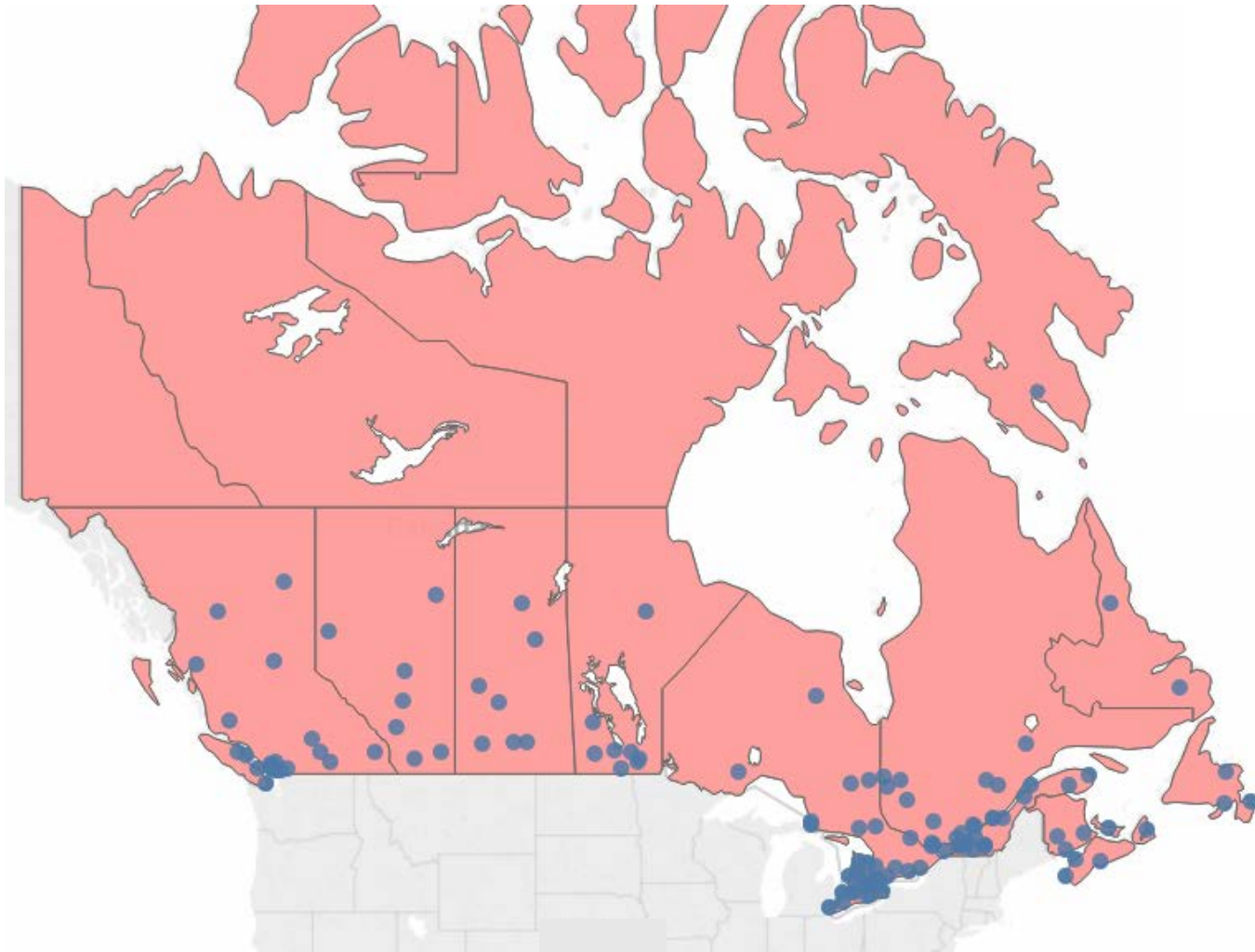
# Practice entry cohorts in Canada

## 2, 5, 10 years after training

(includes IMGs but excludes visa trainees)



# First year postgraduate training site locations



Source: postal codes provided by CaRMS

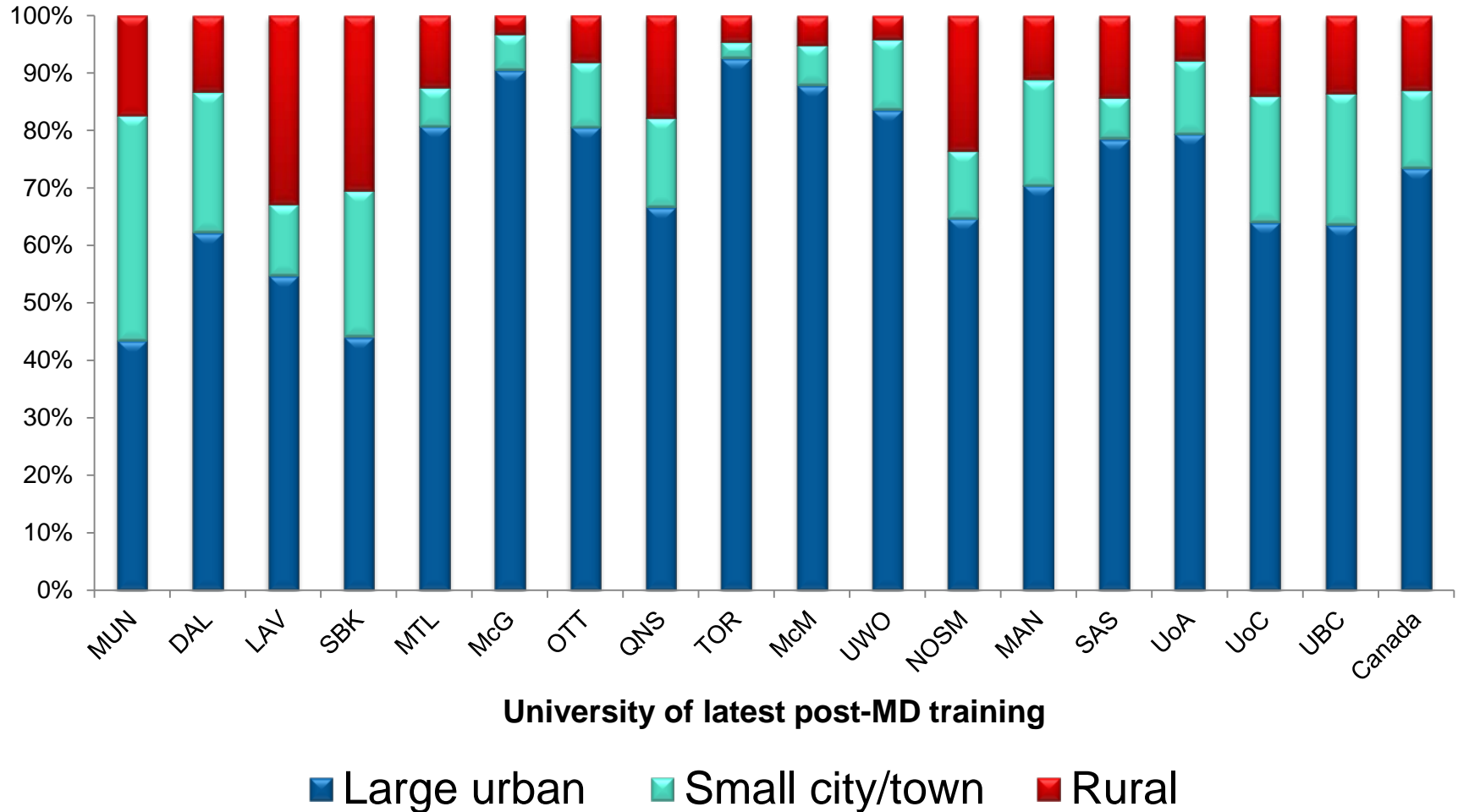


## Working Definitions: Large Urban Centre, Small City, Town and Rural Place

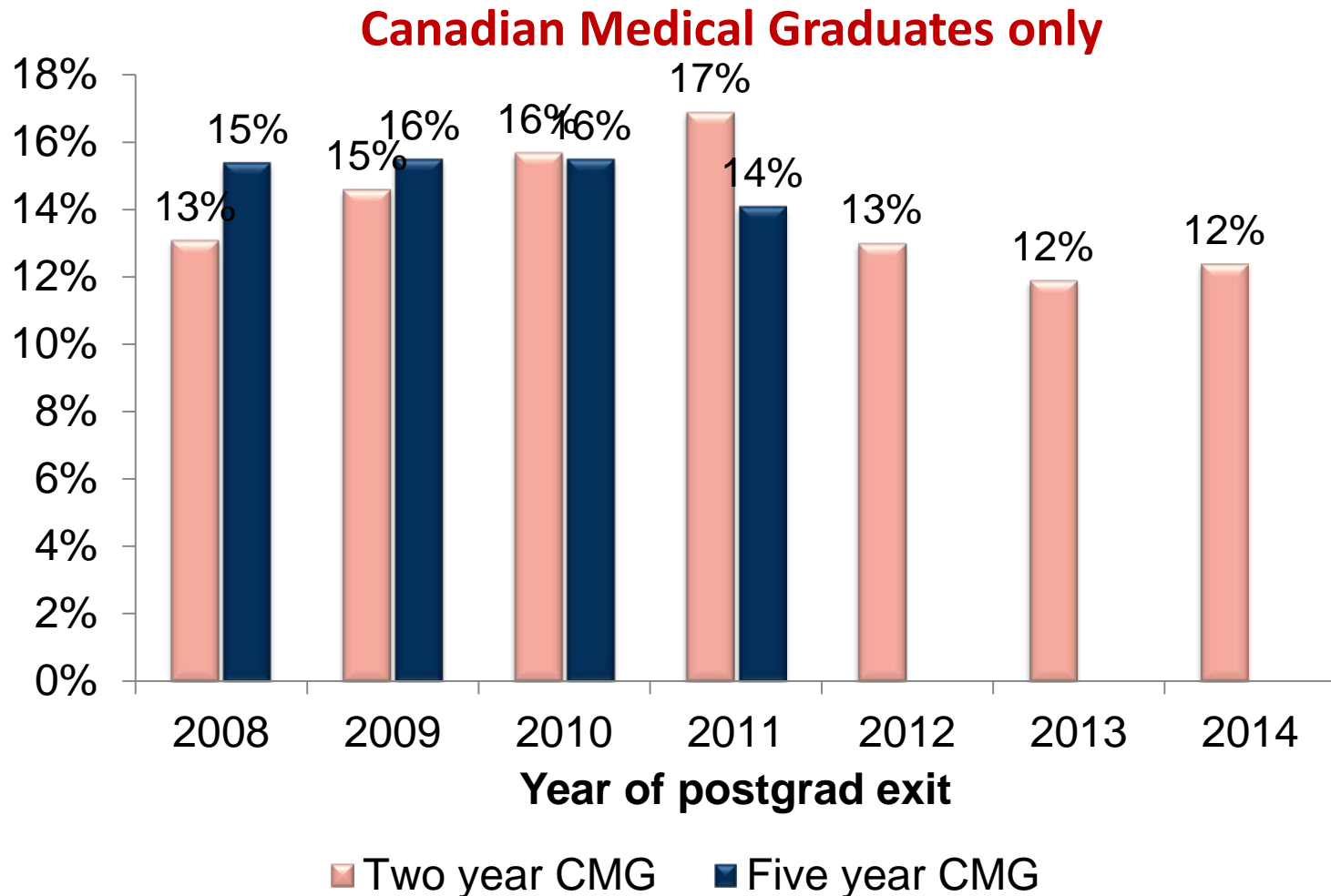
- Large Urban Centres are census metropolitan areas with population of at least 100,000
- Small Cities are tracted census agglomerations with urban core population of 50,000 – 99,999
- Towns are untracted census agglomerations with urban core population of 10,000 – 49,999
- Rural Places are metro influenced zones outside of census metropolitan areas and census agglomerations, as well as the Territories

Source: Postal Code Conversion File (PCCF) Reference Guide, Statistics Canada, 2014.

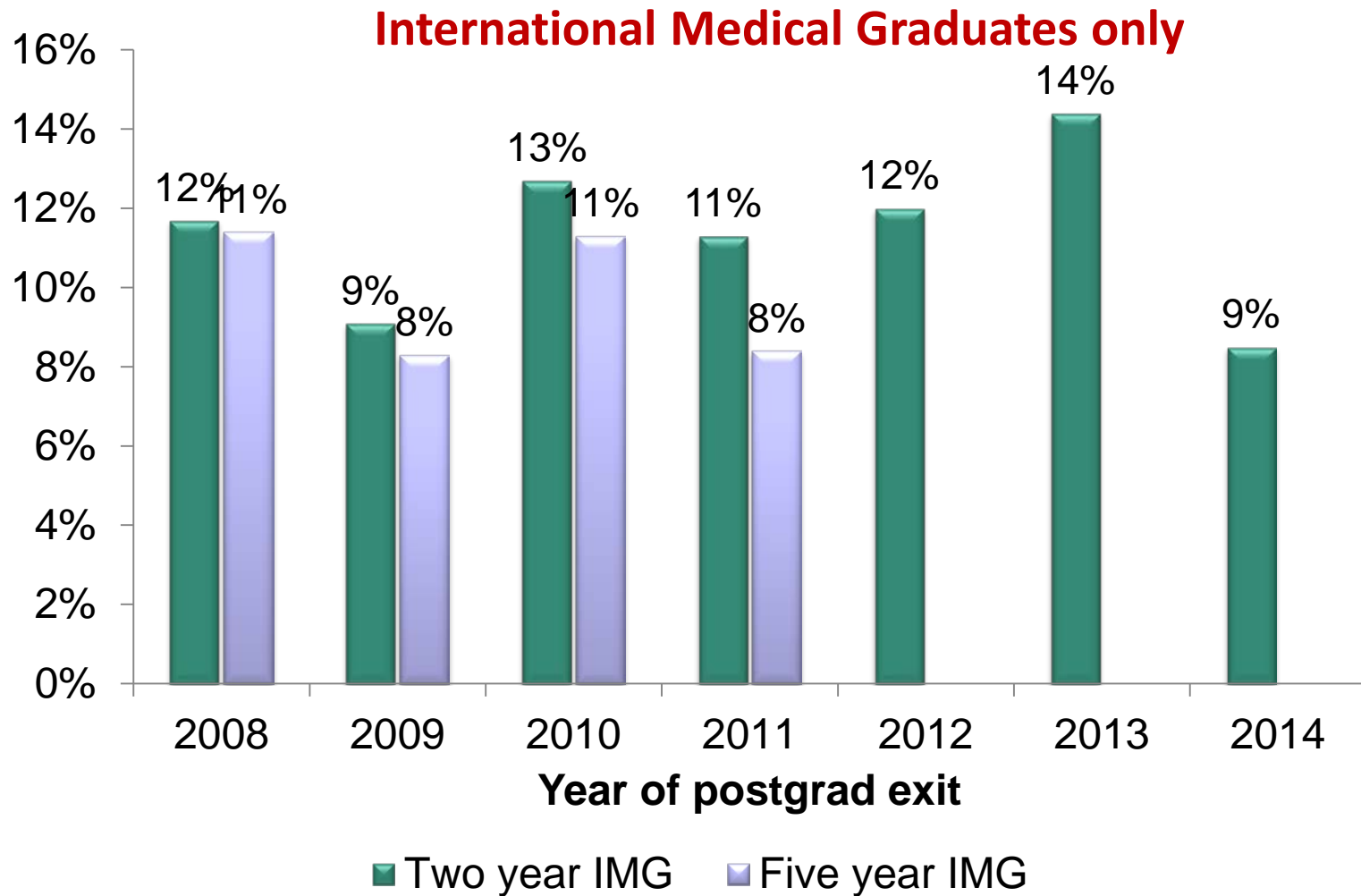
# 2011 Family Medicine postgrad exits five years later by school and location type



## Percentage of **Family Medicine** exits in RURAL areas two and five years after exiting

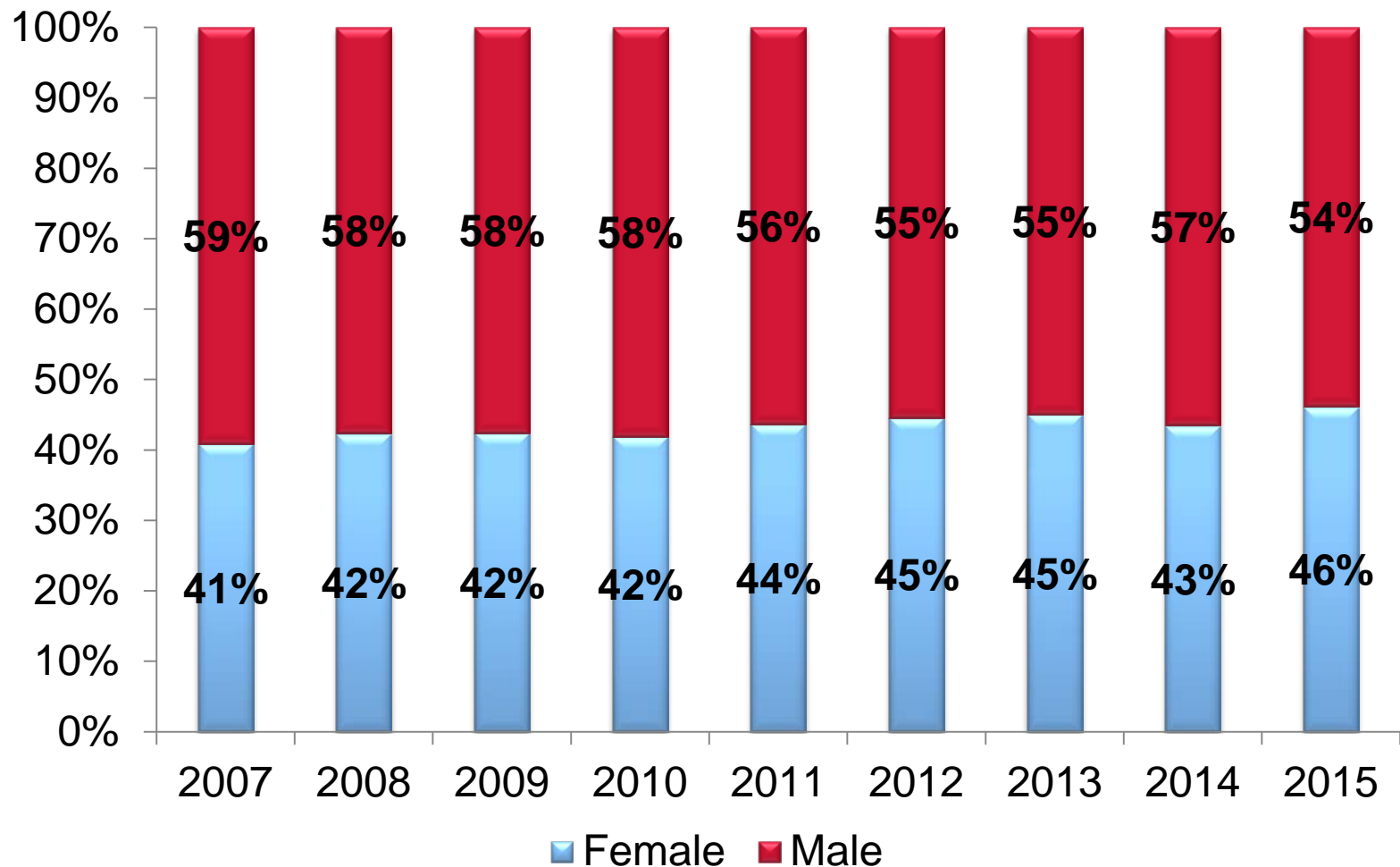


## Percentage of **Family Medicine** exits located in RURAL areas two and five years after exiting

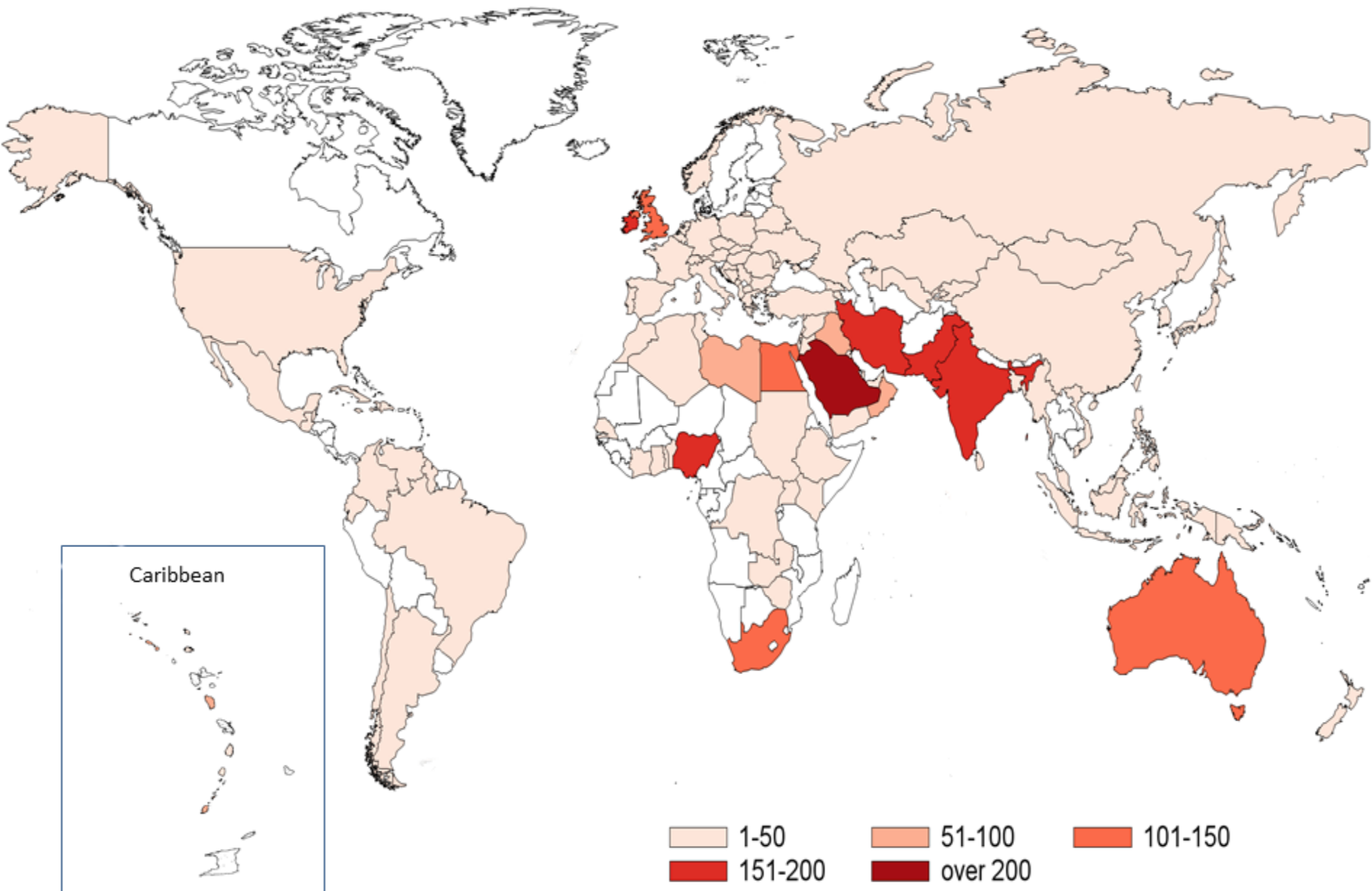




# Percentage passing MCCEE by gender

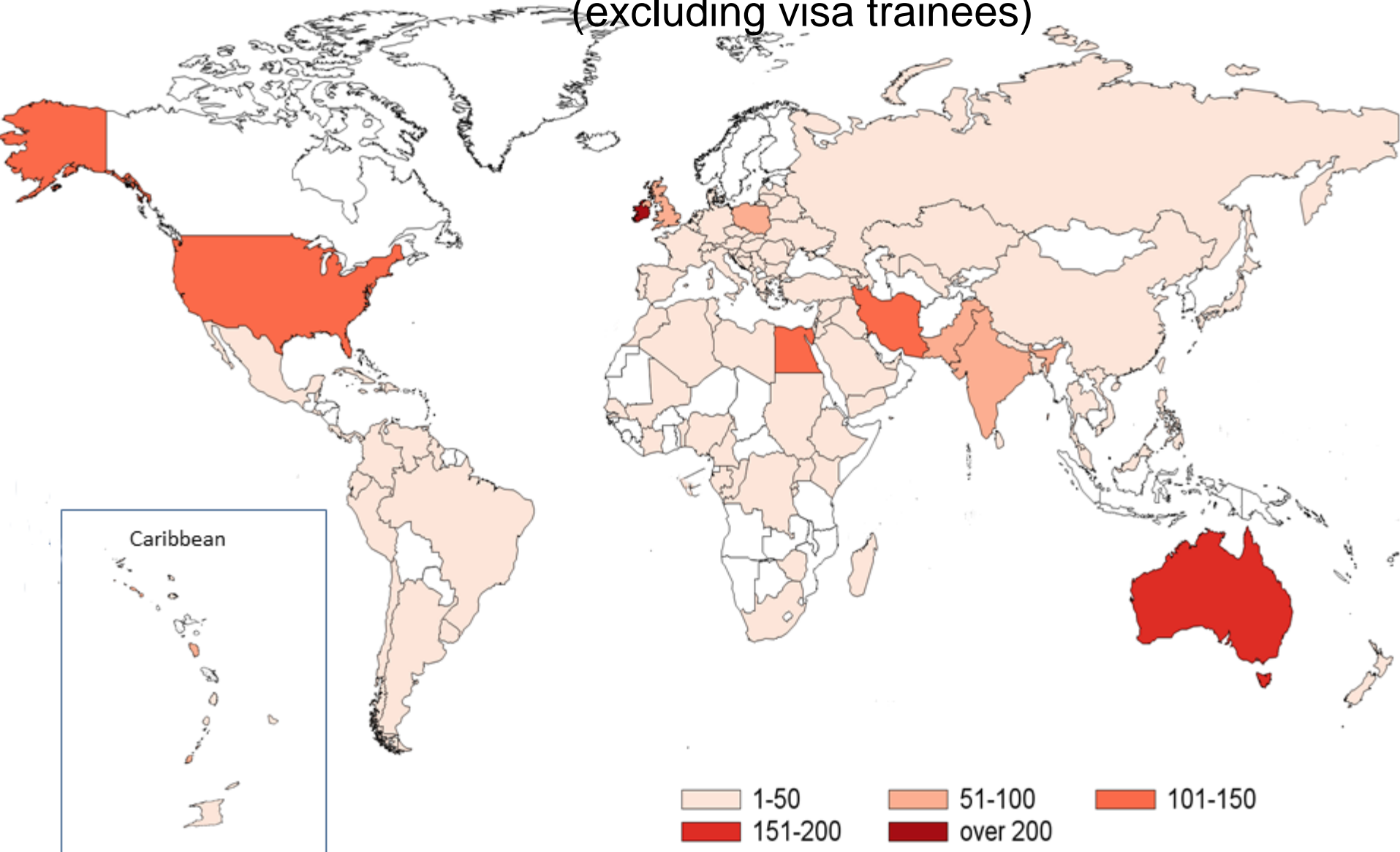


# IMGs who passed the MCCEE by country of MD degree



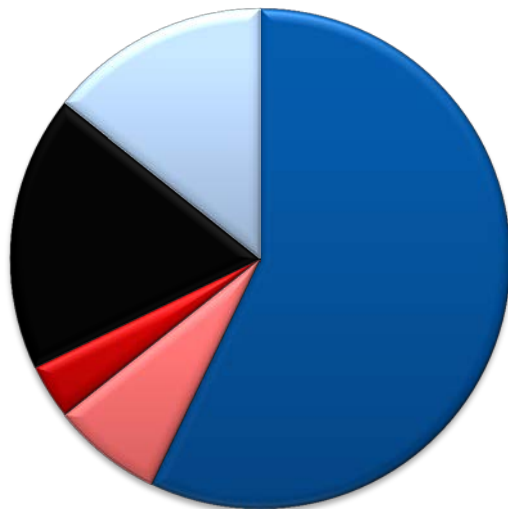
Source: MCC 2015

# IMGs trainees by country of MD degree, 2015 (excluding visa trainees)



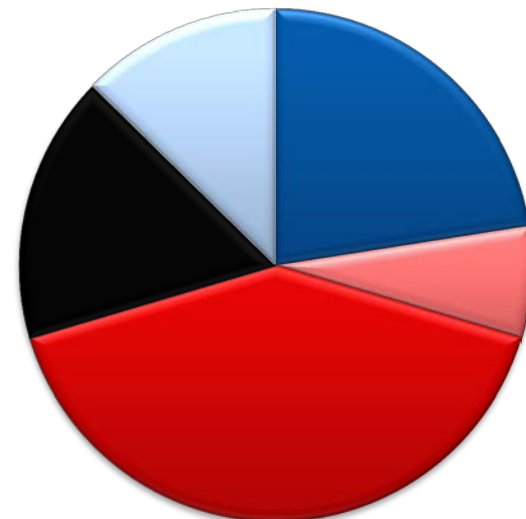
# Two year practice location of **Family medicine** 2013 postgrad exit cohort

**Rural** training program  
(based on postal code of program)



N=28

**Town** training program  
(based on postal code of program)



N=71





# Research Partnerships with Faculties

- All requests require completion of a request form to know how the info will be used.
- Aggregate tracking data is the most common requests from faculties in recent years.
- Faculties can receive record level information only about their own trainees.
- Location categories are provided based on postal code mappings – large urban, small city, town, rural (Stat Can definitions)



# Custom Research Projects

- Third party linkages to protect privacy – e.g. MCC, U of T.
- Description of LOCATED
- Tracking FM, U of Alb; U Calgary measuring success of IMG program
- Work with Sherbrooke, UWO, MUN, McGill, McMaster tracking postgrad exits.
- Memorial research on IMGs



Thank you!

[lbuske@caper.ca](mailto:lbuske@caper.ca)

[www.caper.ca](http://www.caper.ca)



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