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Canada's Faculties of Medicine by the Numbers

2009 CAPER-ORIS Forum

Canadian Conference on Medical Education
Edmonton – Alberta – 5 May 2009

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Association of Faculties of Medicine of Canada



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AFMC Data and Reports

Data Holding	Data Source	Collection Mode	Annual Report (release date)
MD program application	Undergrad admissions offices; OMSAS	Individual level data files	Canadian Medical Education Statistics (September)
MD program enrolment	Faculty of Med UGME offices	Individual level data files	
MD program graduation	Faculty of Med UGME offices	Individual level data files	
Annual Faculty of Medicine Survey	Faculties of Medicine	Aggregate level survey	
Research Revenues	Faculties of Medicine	Aggregate level survey	
Faculty of Medicine Admission Requirements	Faculties of Medicine	Aggregate level survey	Admission Requirements of Canadian Faculties of Medicine (August)



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AFMC Data and Reports (cont'd)

Data Holding	Data Source	Collection Mode	Annual Report (release date)
Canadian Post-MD Education Registry (CAPER)	Faculty of Medicine PGME offices; OPHRDC	Individual level data files	CAPER Annual Census of Post-MD Trainees (March) CAPER Individual Field of Training Tables (May) CAPER Provincial Reports (May)
National IMG Database	CAPER, CFPC, RCPSC, MCC, Registrars, Assessment Centres	Individual level data files	<i>In development</i>
J-1 Visa Trainee Database	Health Canada; ECFMG	Individual level data files	<i>In development</i>

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Office of Research and Information Services (ORIS)

- Main data areas covered by ORIS include:
 - Faculty counts
 - Research revenues
 - MD program
 - Application
 - Enrolment



Canadian Post-MD Education Registry (CAPER)

- Founded in 1986, CAPER is a partnership of professional medical organizations and F/P/T governments.
- Main data areas covered by CAPER include:
 - Post-MD enrolment & exits
 - Ongoing practice location



Canadian Faculty of Medicine Chronology

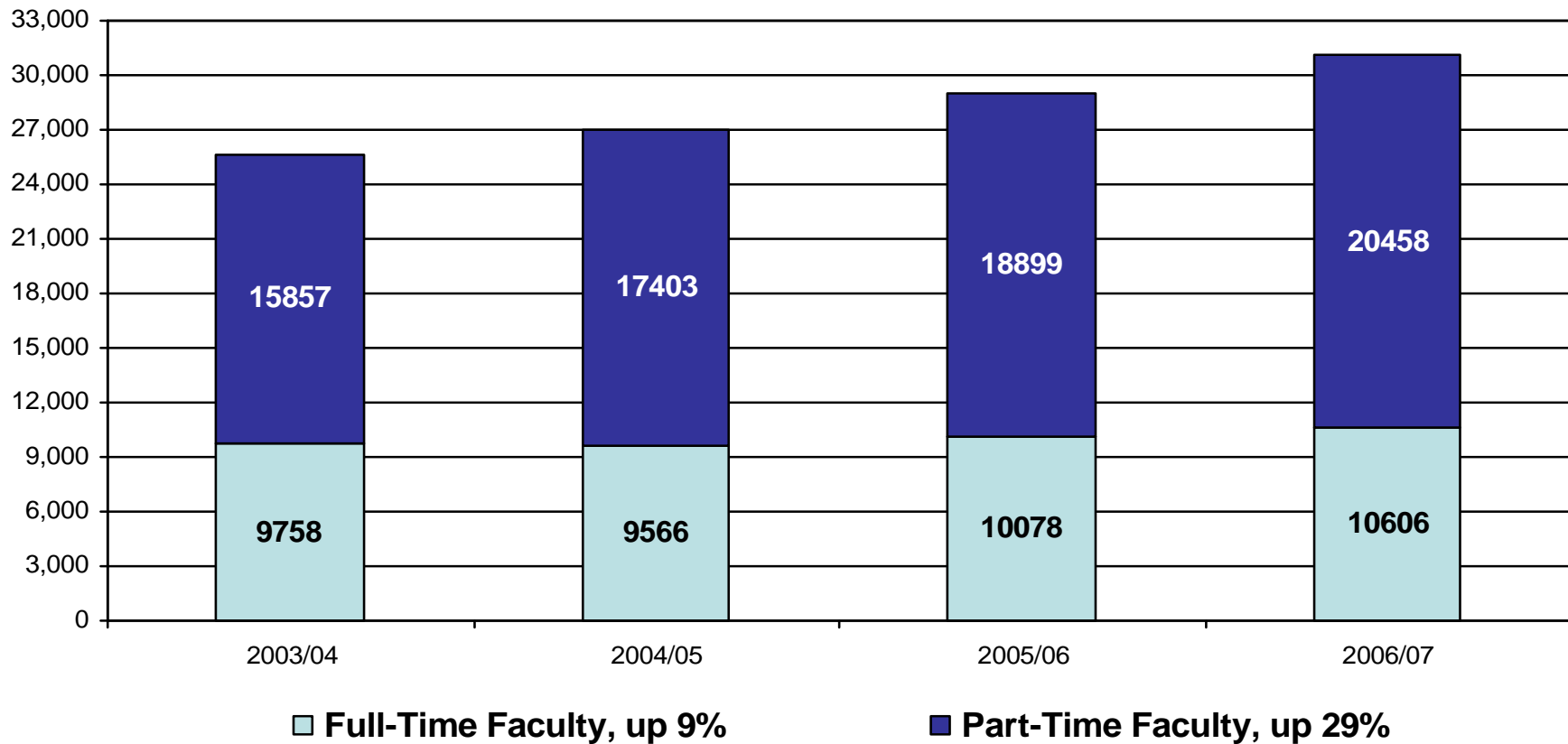
Faculty of Medicine	Year Organized	
McGill University	1829	
Université Laval	1853	
Queen's University at Kingston	1854	← 1867 – BNA Act
Dalhousie University	1868	
Université de Montréal	1877	
University of Western Ontario	1878	
University of Manitoba	1883	
University of Toronto	1887	← 1894 – 1 st Stanley Cup
University of Alberta	1913	
University of Saskatchewan	1926	← 1921 – Agnes Campbell Macphail elected
University of Ottawa	1945	
University of British Columbia	1950	
Université de Sherbrooke	1961	← 1961 – SK Medical Care Insurance Bill
McMaster University	1965	
University of Calgary	1965	1970 – Thunder Bay Created
Memorial University of Newfoundland	1967	←
Northern Ontario School of Medicine	2003	



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Full-Time and Part-Time Faculty

Faculty of Medicine Faculty Counts, Canada, 2003-04 to 2006-07



Source: AFMC ORIS, 2009.

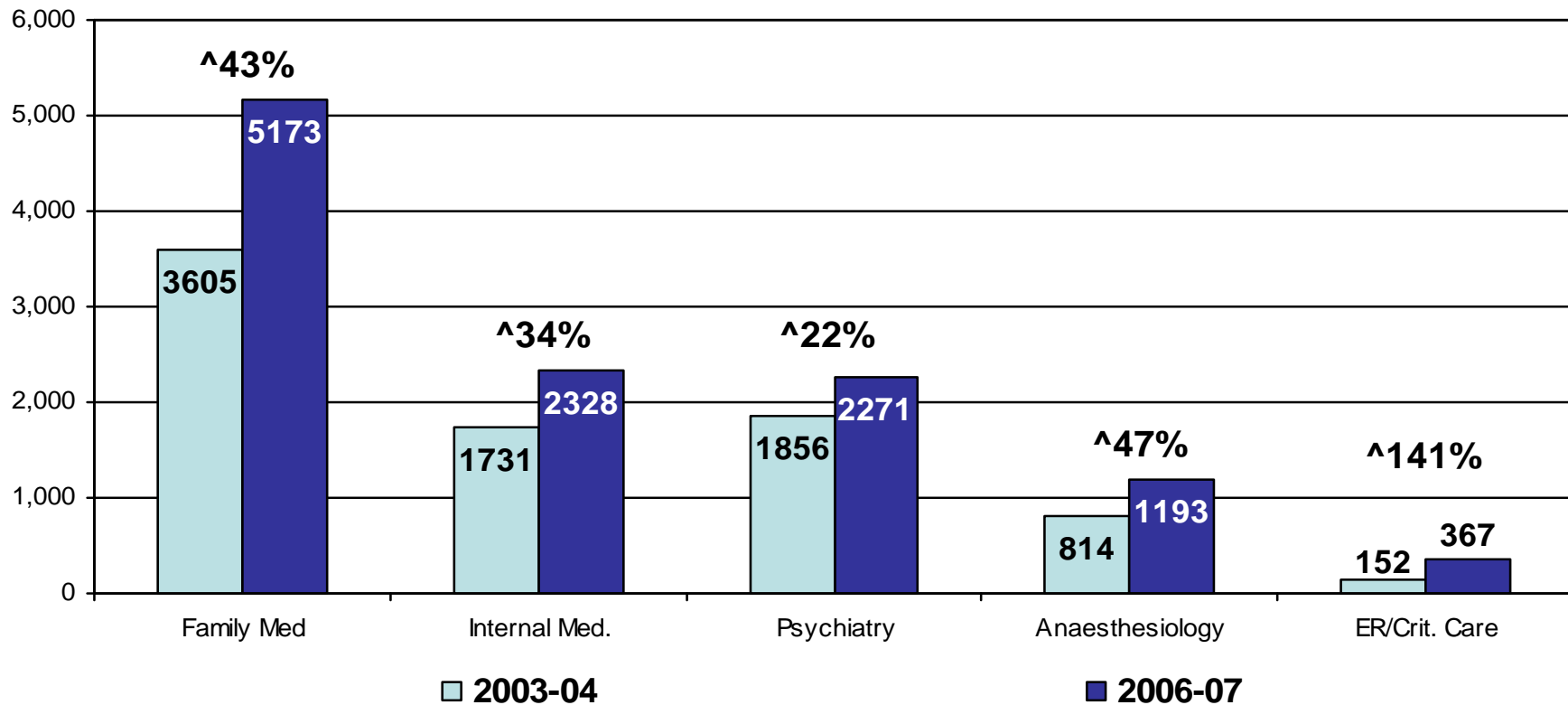
Note: Full-time faculty include professors, associate and assistant professors, instructors and other faculty. Part-time faculty includes paid and volunteer faculty members.



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Part-Time Faculty

Faculty of Medicine Part-Time Faculty Counts for Selected Departments, Canada, 2003-04 to 2006-07



Source: AFMC ORIS, 2009.

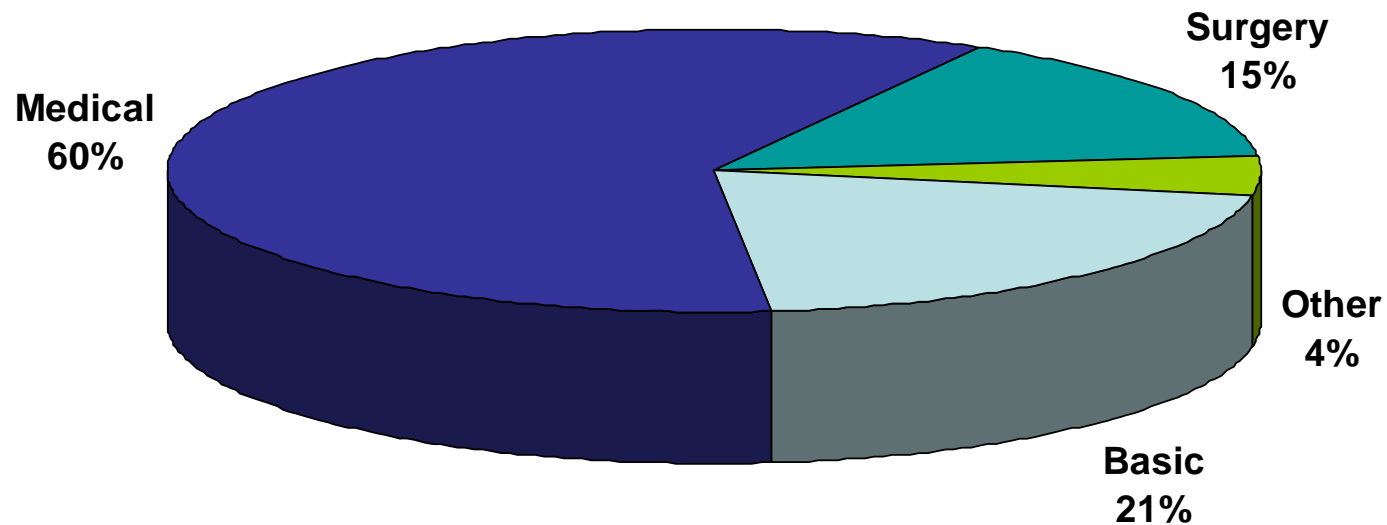
Note: Part-time faculty includes paid and volunteer faculty members.



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Full-Time Faculty

Distribution of Full-Time Faculty Across Broad Departments,
Canada, 2006-07



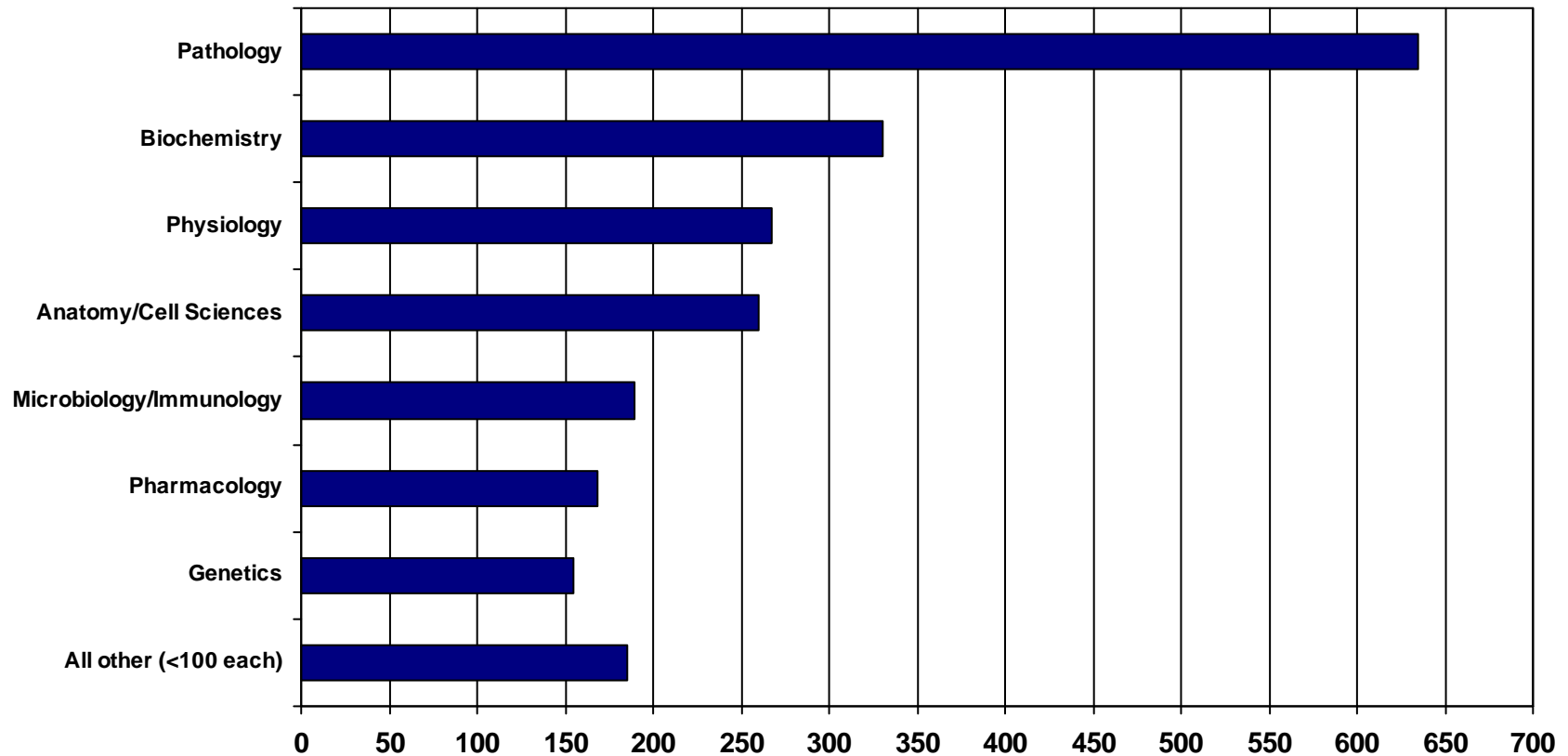
Source: AFMC ORIS, 2009; Note: Full-time faculty include professors, associate and assistant professors, instructors and other faculty.



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Full-Time Faculty

Distribution of Full-Time Basic Science Faculty Across Departments, Canada, 2006-07



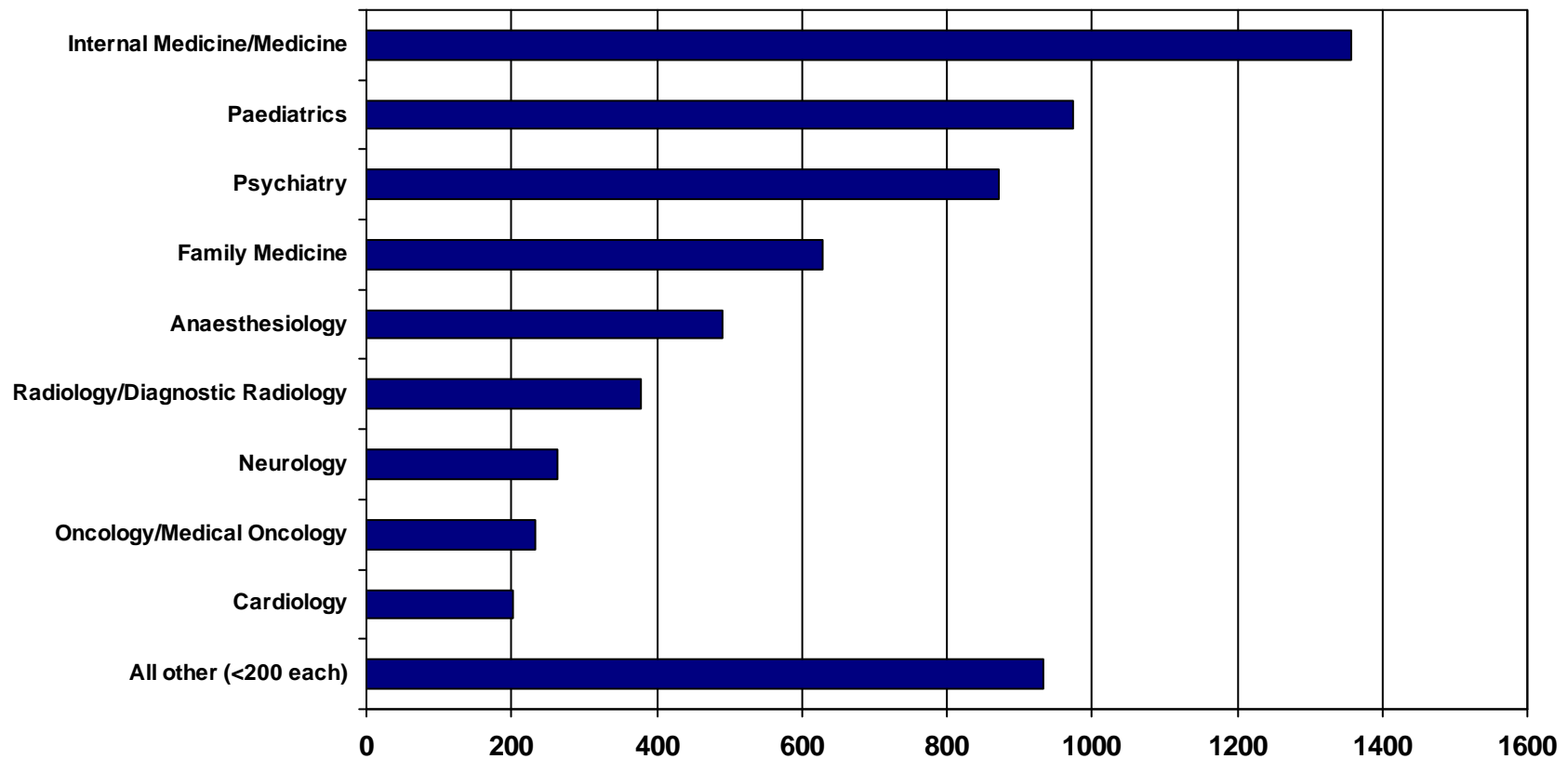
Source: AFMC ORIS, 2009.



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Full-Time Faculty

Distribution of Full-Time Medical Science Faculty Across Departments, Canada, 2006-07



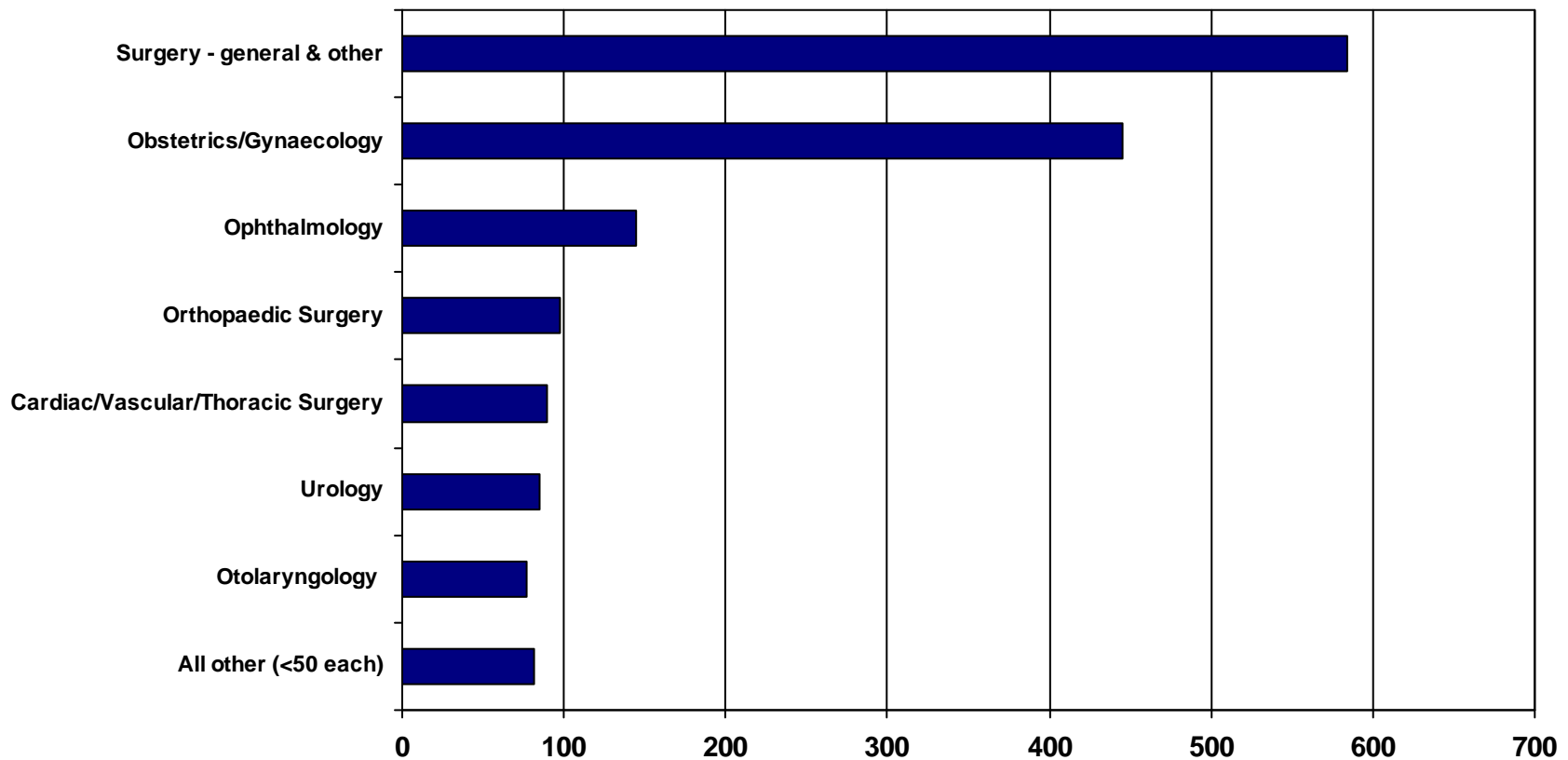
Source: AFMC ORIS, 2009.



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Full-Time Faculty

Distribution of Full-Time Surgical Science Faculty Across Departments, Canada, 2006-07



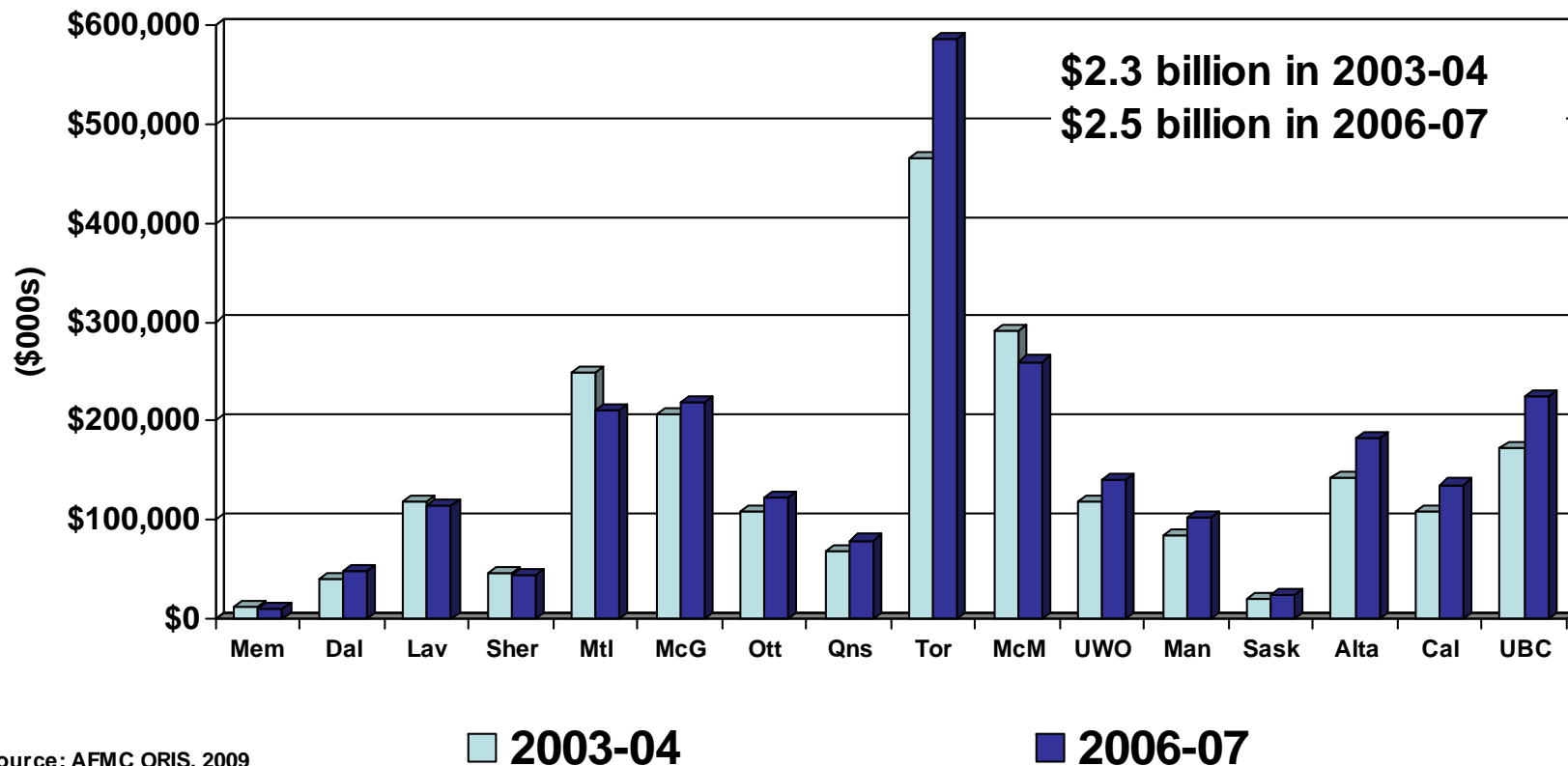
Source: AFMC ORIS, 2009.



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Research Revenues

Biomedical and Health Care Research Revenues
by Faculty of Medicine, Canada, 2003-04 and 2006-07



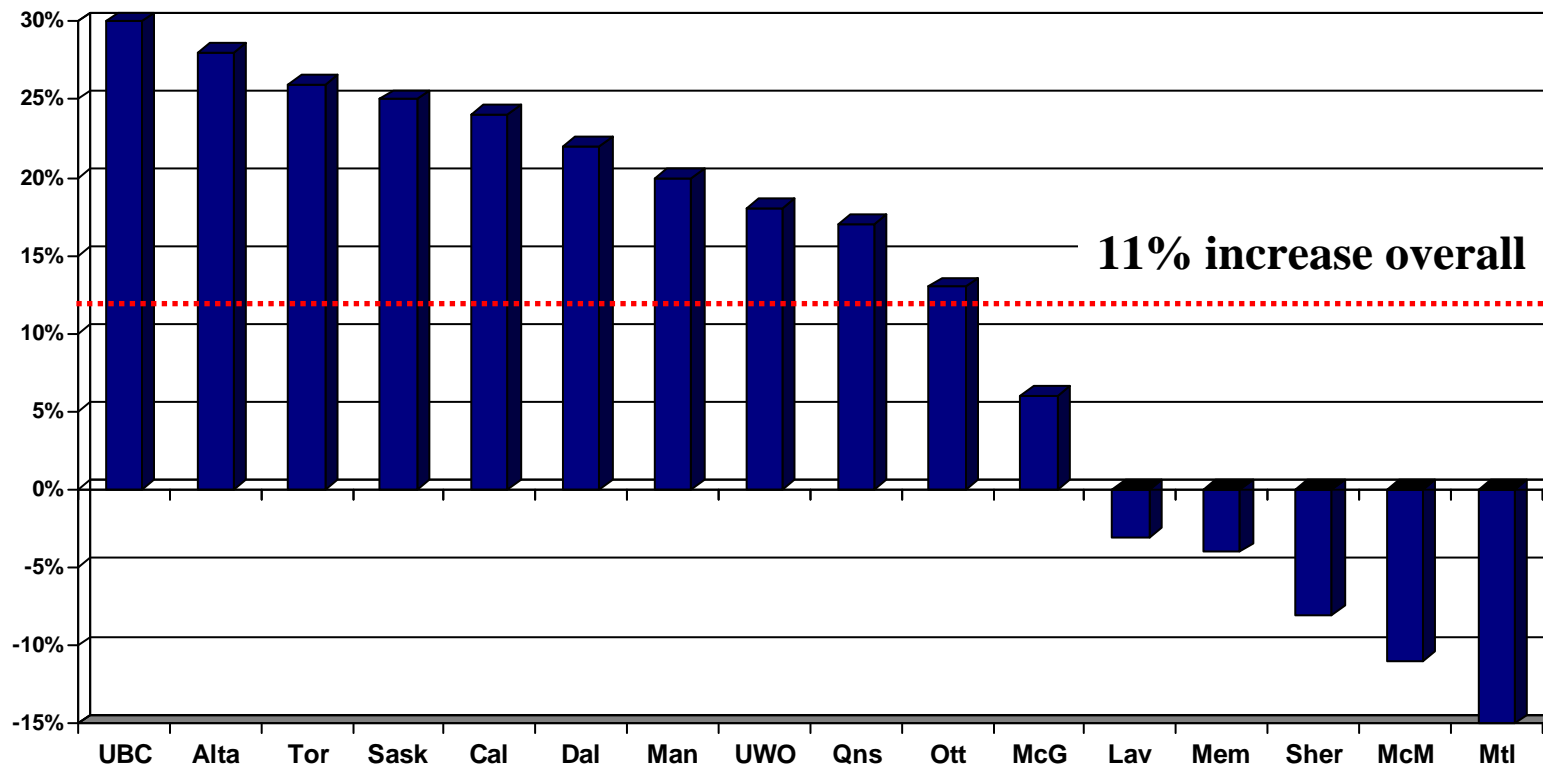
Source: AFMC ORIS, 2009



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Research Revenues

Percent Change in Biomedical and Health Care Research Revenues,
by Faculty of Medicine, Canada, 2003-04 to 2006-07



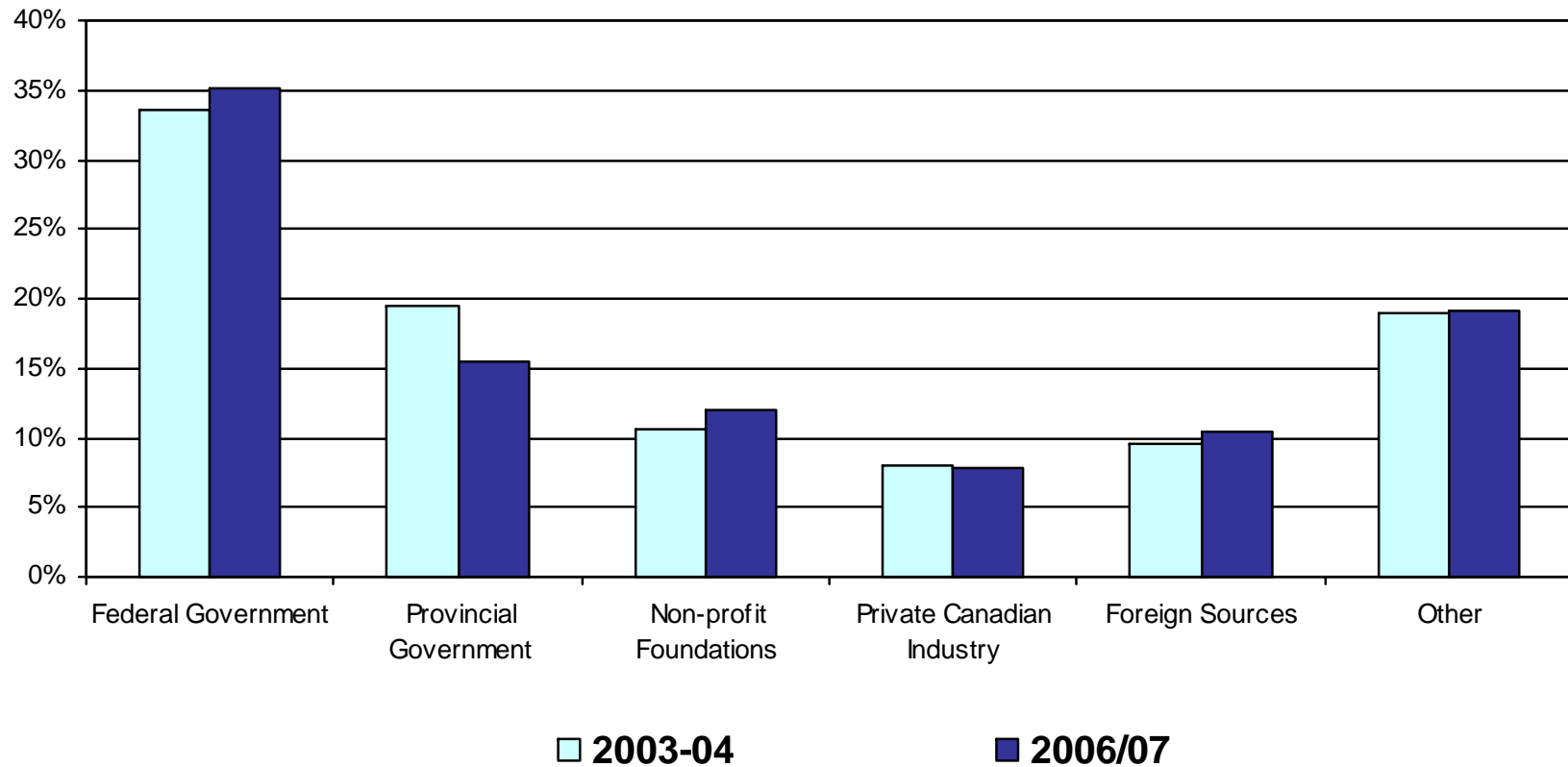
Source: AFMC ORIS, 2009



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Research Revenues

Faculty of Medicine Biomedical and Health Care Research Revenue,
Funding Source Percent Distribution, Canada, 2003-04 and 2006/07



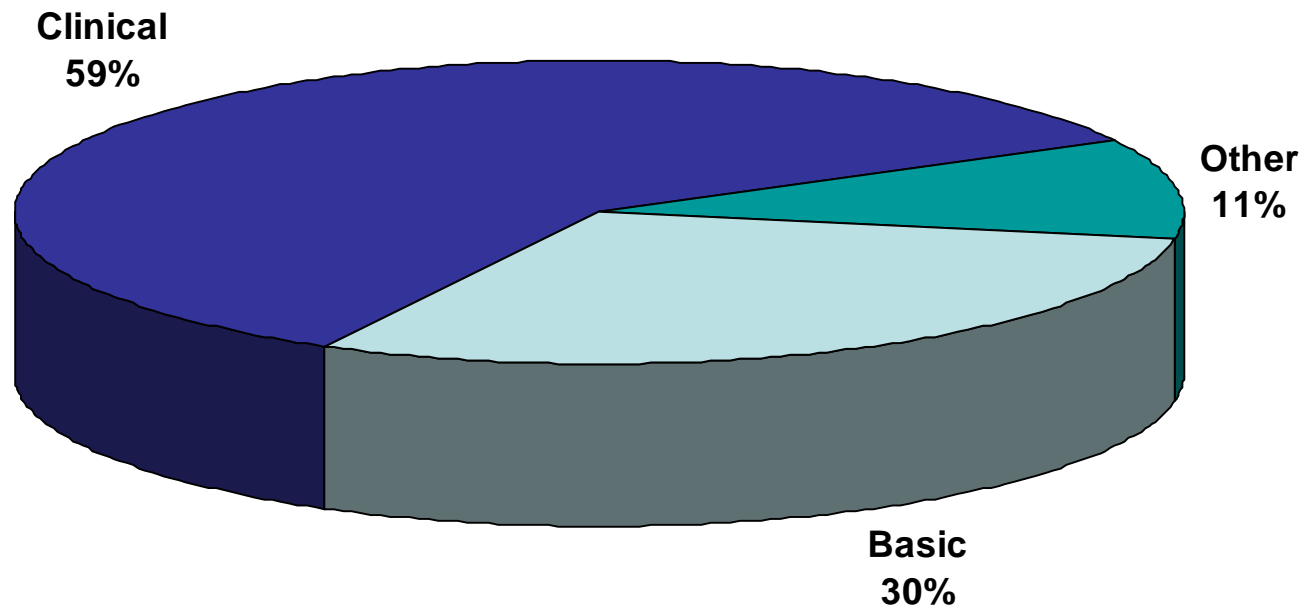
Source: AFMC ORIS, 2009



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Research Revenues

Distribution of Research Revenues Across Broad Research Fields,
Canada, 2006-07



Source: AFMC ORIS, 2009.

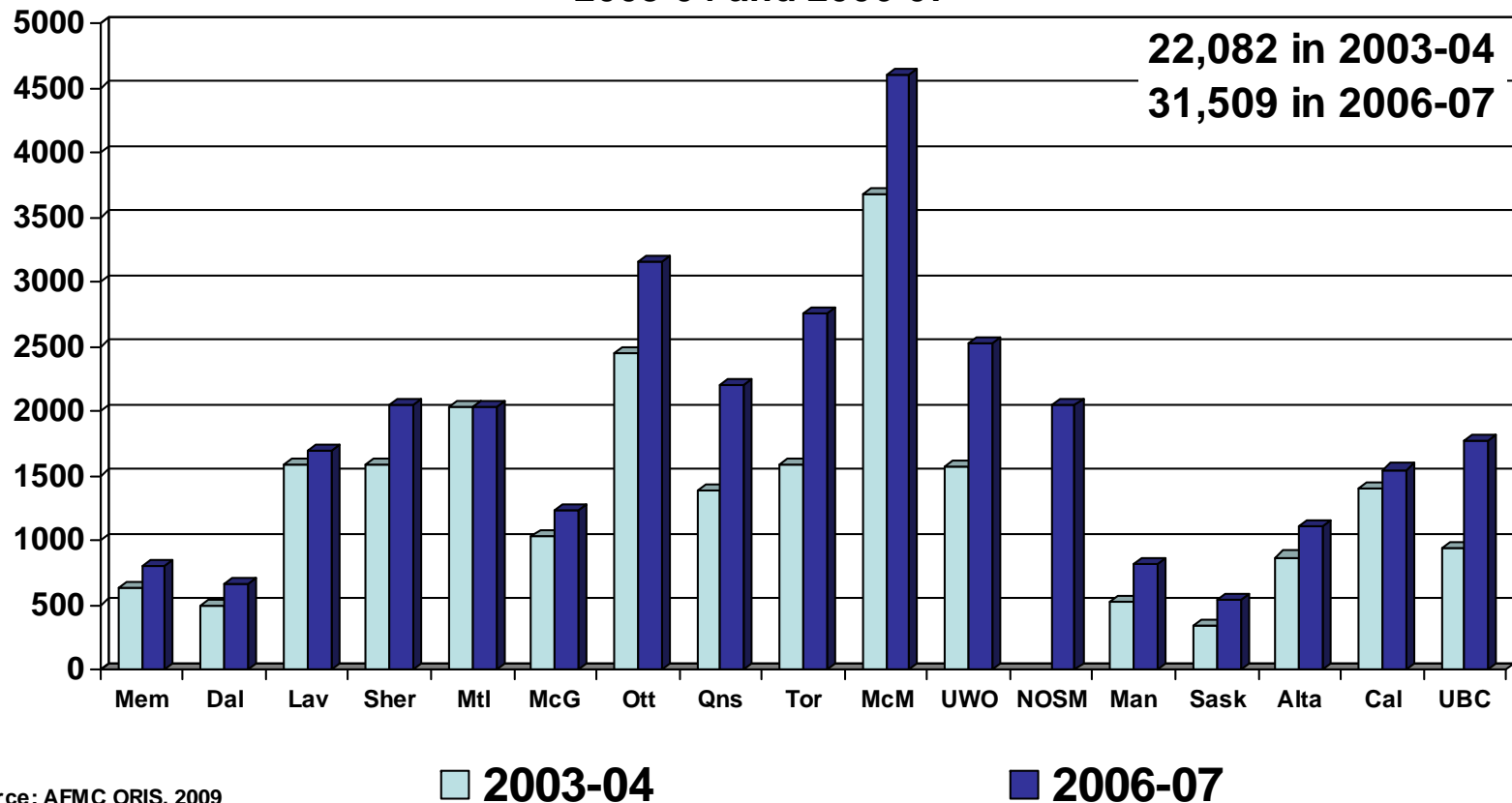
Examples: Clinical includes IM, peds, etc.; Basic includes biochem, genetics, etc.; Other includes community health, etc..



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MD Program Application

Number of Applications Submitted to Canadian Faculties of Medicine,
2003-04 and 2006-07



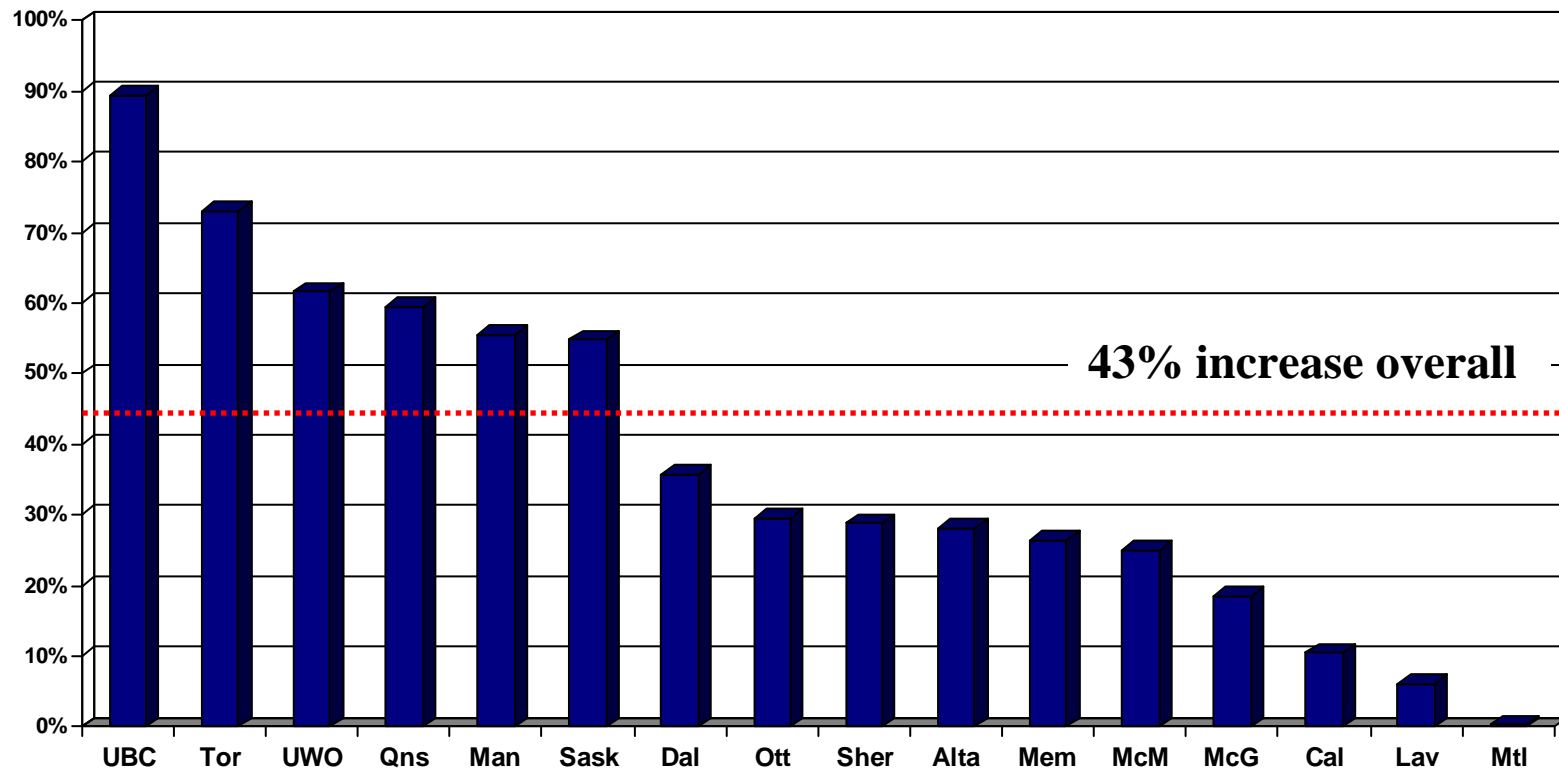
Source: AFMC ORIS, 2009



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MD Program Application

Percent Increase in Number of Applications to Faculties of Medicine,
Canada, 2003-04 to 2006-07



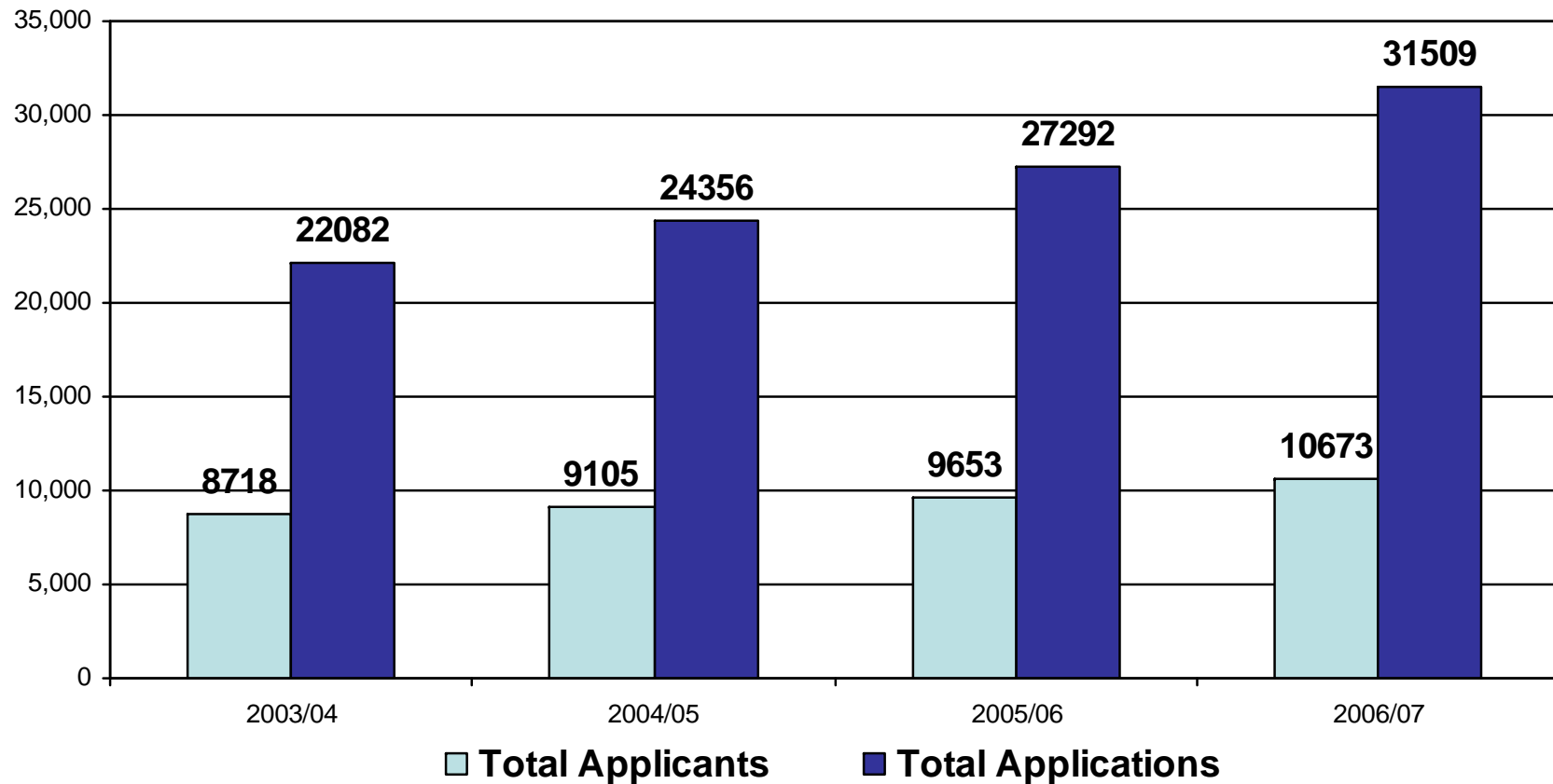
Source: AFMC ORIS, 2009



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MD Program Application

**Total Number of Applicants and Applications to MD Programs,
Canada, 2003-04 to 2006/07**



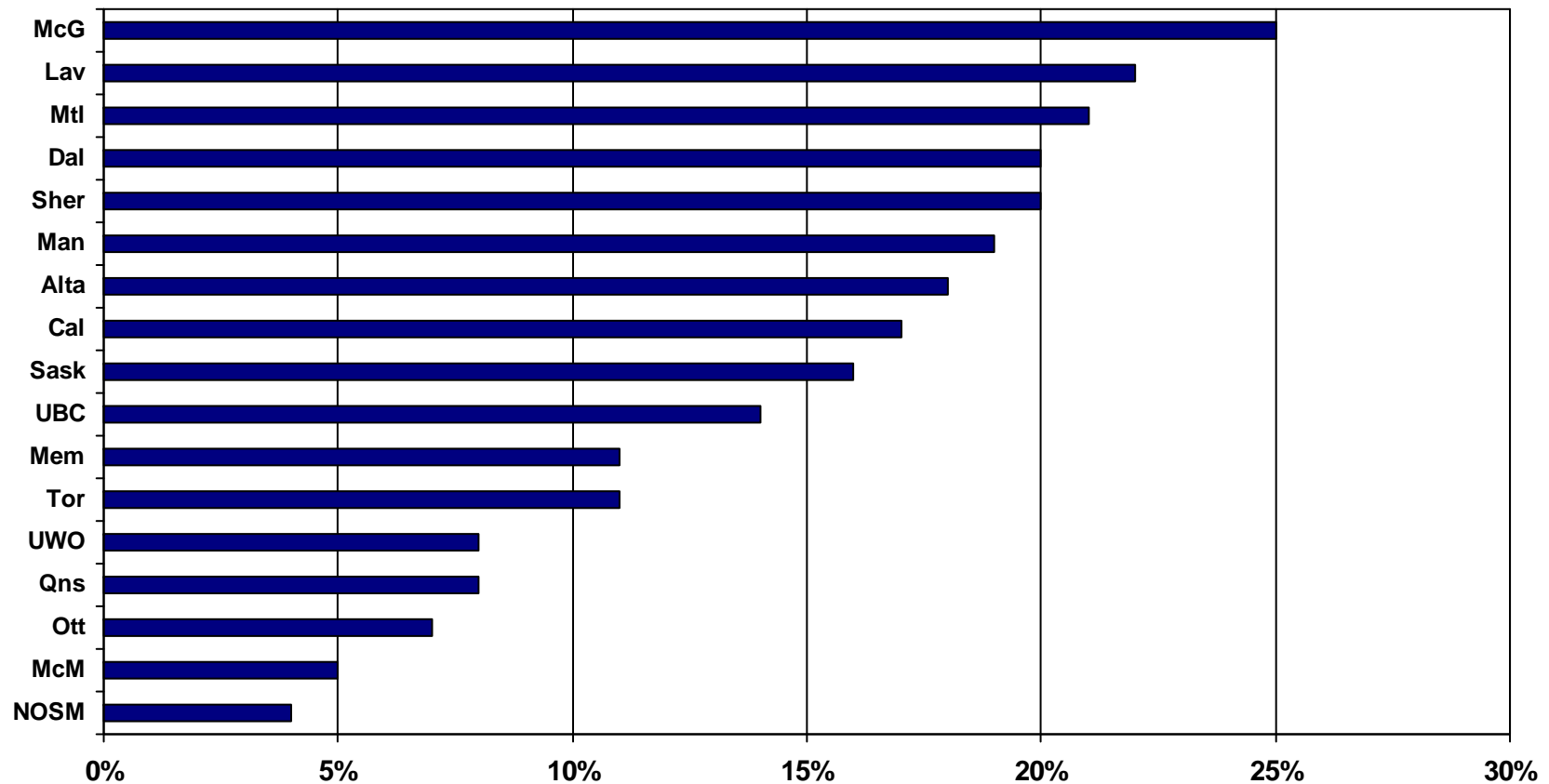
Source: AFMC ORIS, 2009



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MD Program Application

Percent of MD Program Applications That Result in an Offer of Admission,
by Faculty of Medicine, Canada, 2006-07



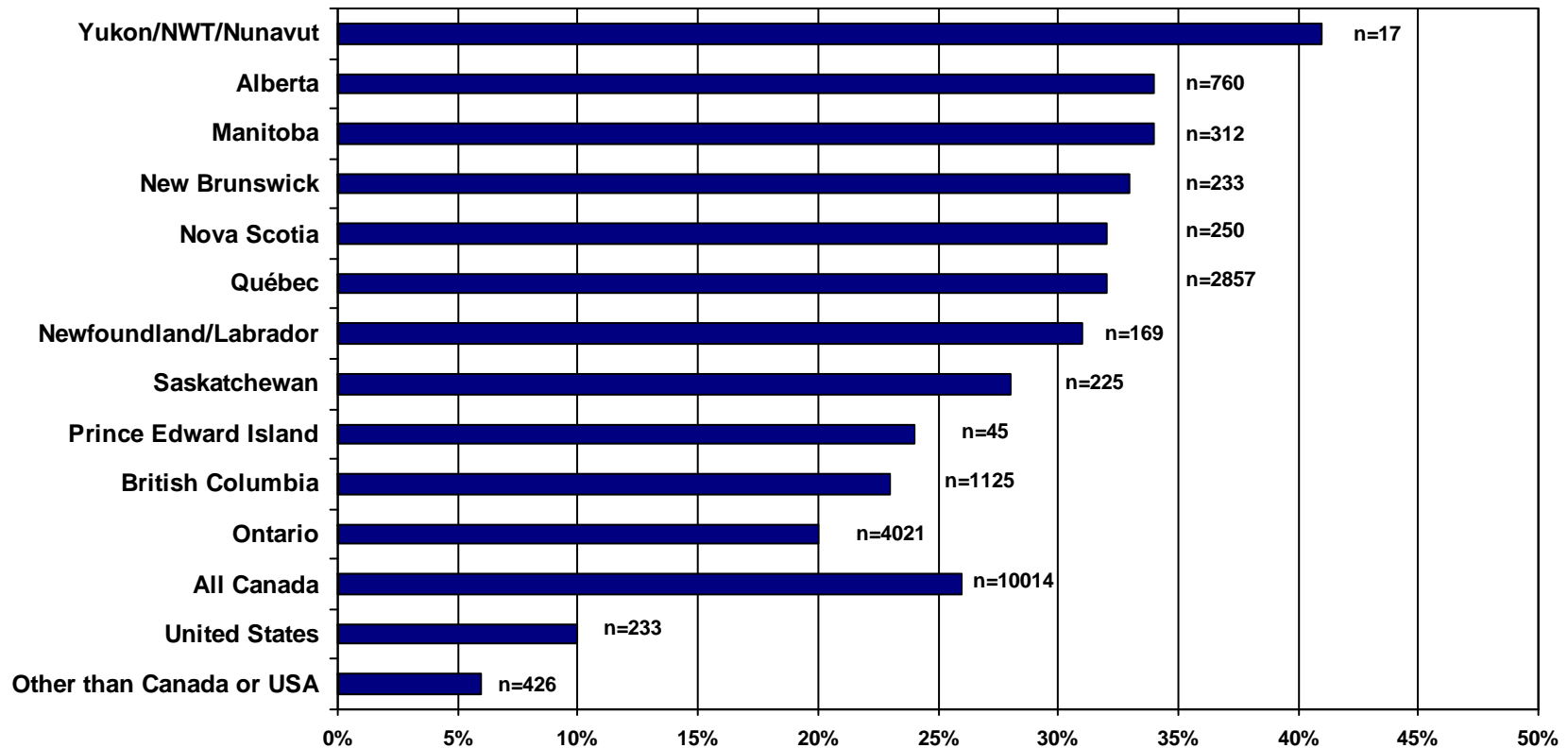
Source: AFMC ORIS, 2009; Note: The unit of analysis is applications, not applicants. Applicants may receive multiple offers.



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MD Program Application

MD Program Acceptance Rates by Province/Country of Residence of Applicants, Canada, 2006-07



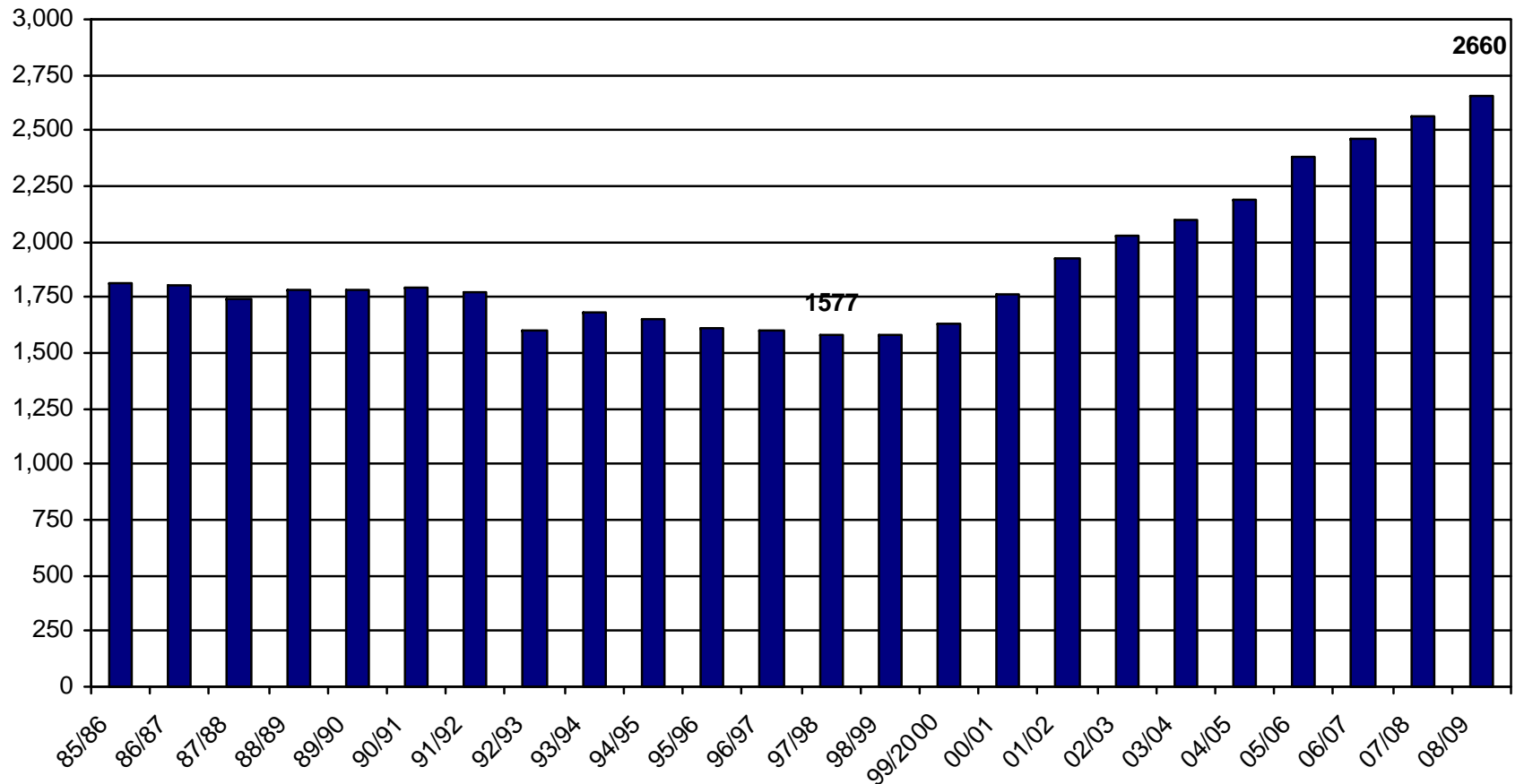
Source: AFMC ORIS, 2009



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First Year Medical Students

First Year MD Program Enrolment, Canada, 1985/86 - 2008/09



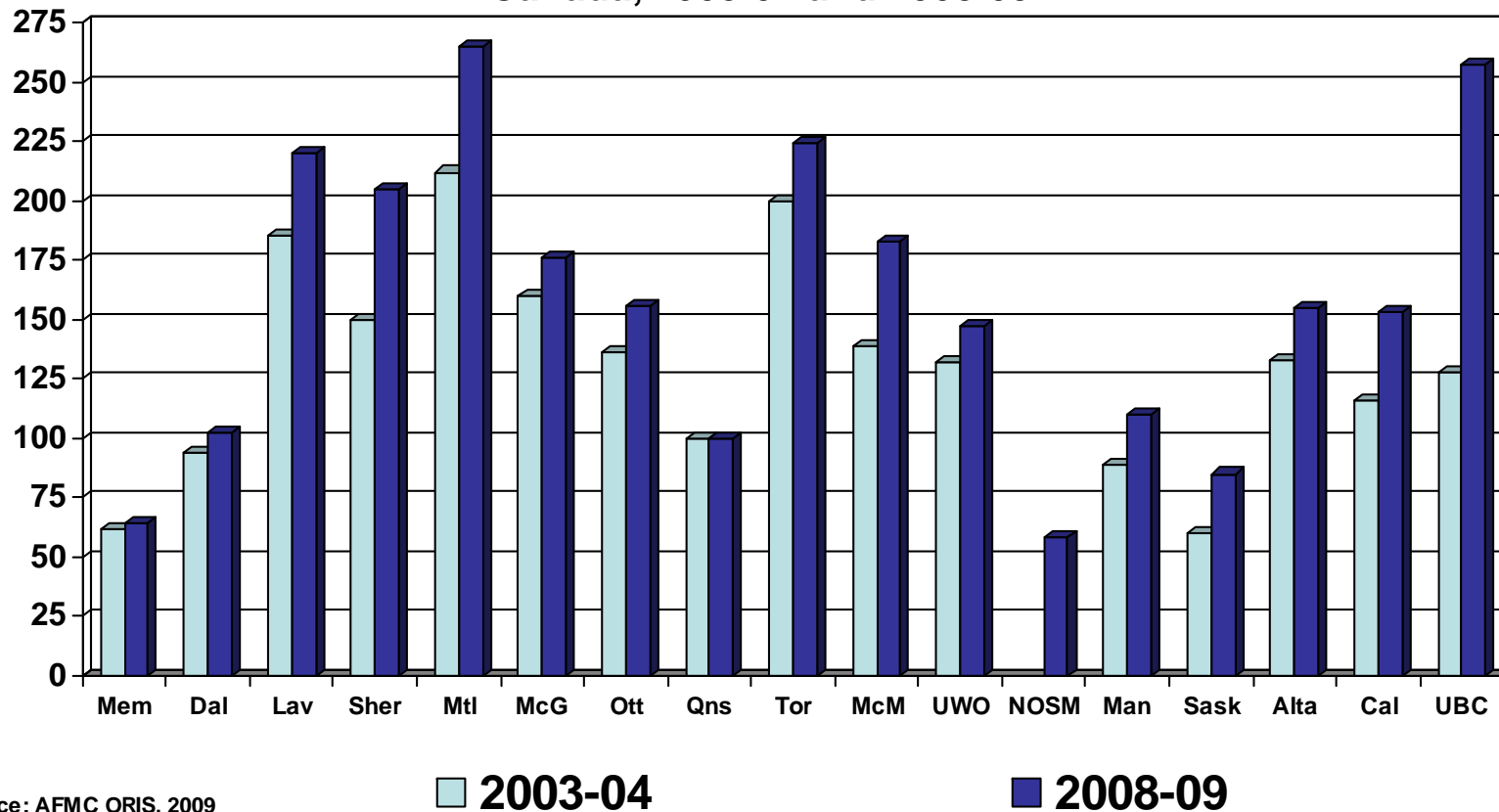
Source: AFMC ORIS, 2009



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First Year Medical Students

First Year MD Program Enrolment by Faculty of Medicine,
Canada, 2003-04 and 2008-09



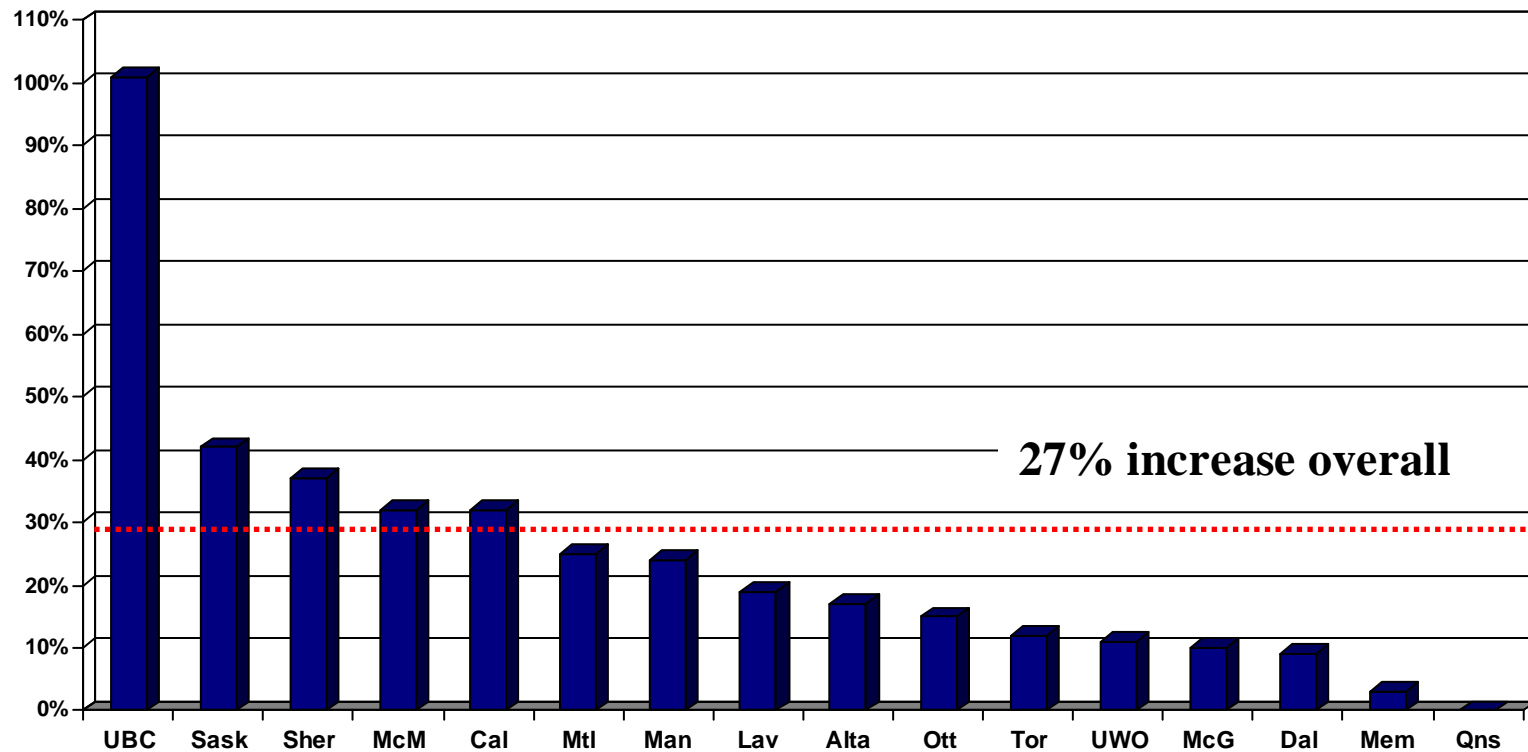
Source: AFMC ORIS, 2009



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First Year Medical Students

Percent Increase in First Year MD Program Enrolment by Faculty of Medicine,
Canada, 2003-04 to 2008-09



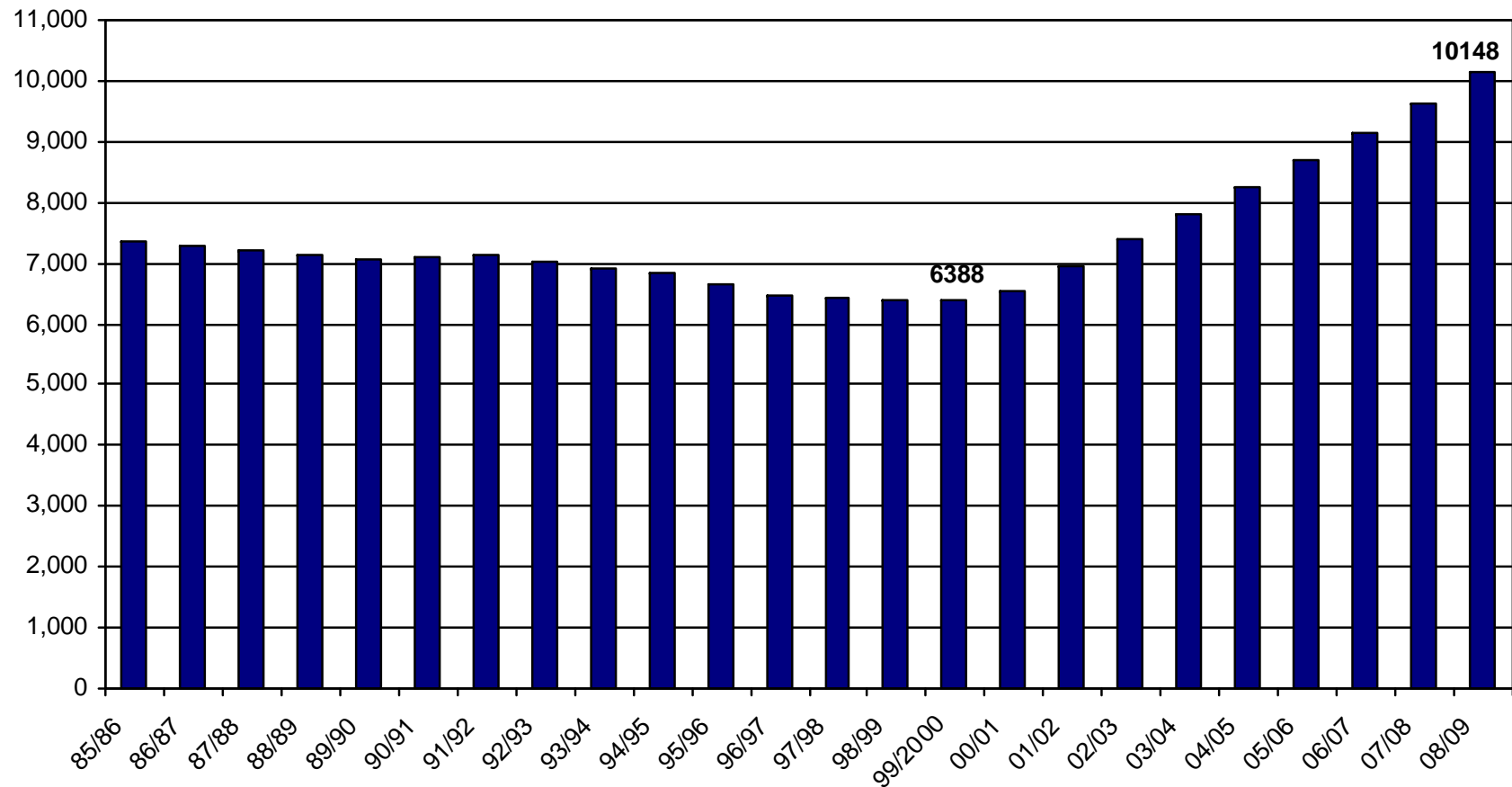
Source: AFMC ORIS, 2009



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Medical Students

MD Program Enrolment, Canada, 1985/86 - 2008/09



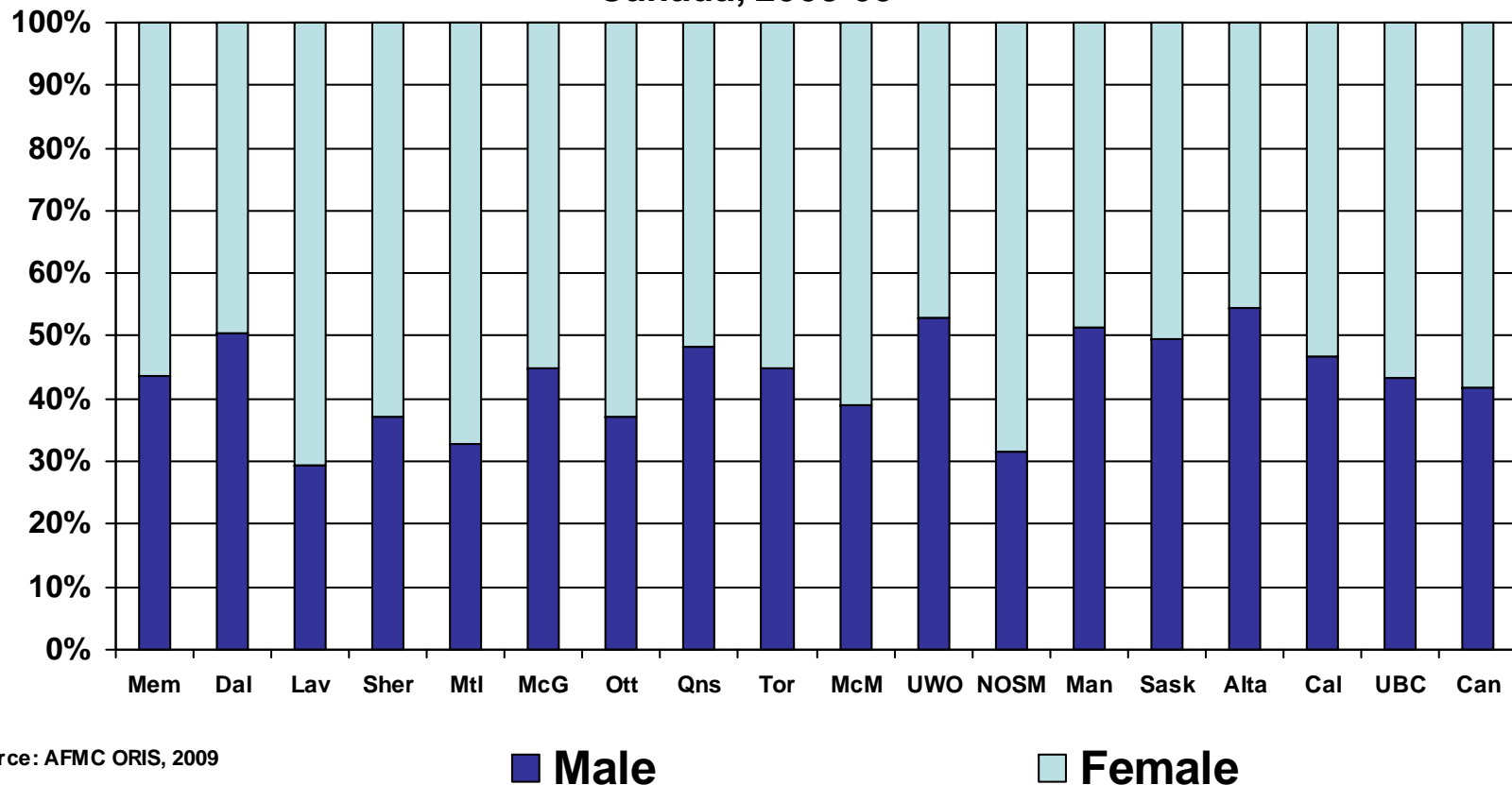
Source: AFMC ORIS, 2009



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Medical Students

Distribution of Medical Students by Faculty of Medicine and Sex, Canada, 2008-09



Source: AFMC ORIS, 2009

■ Male

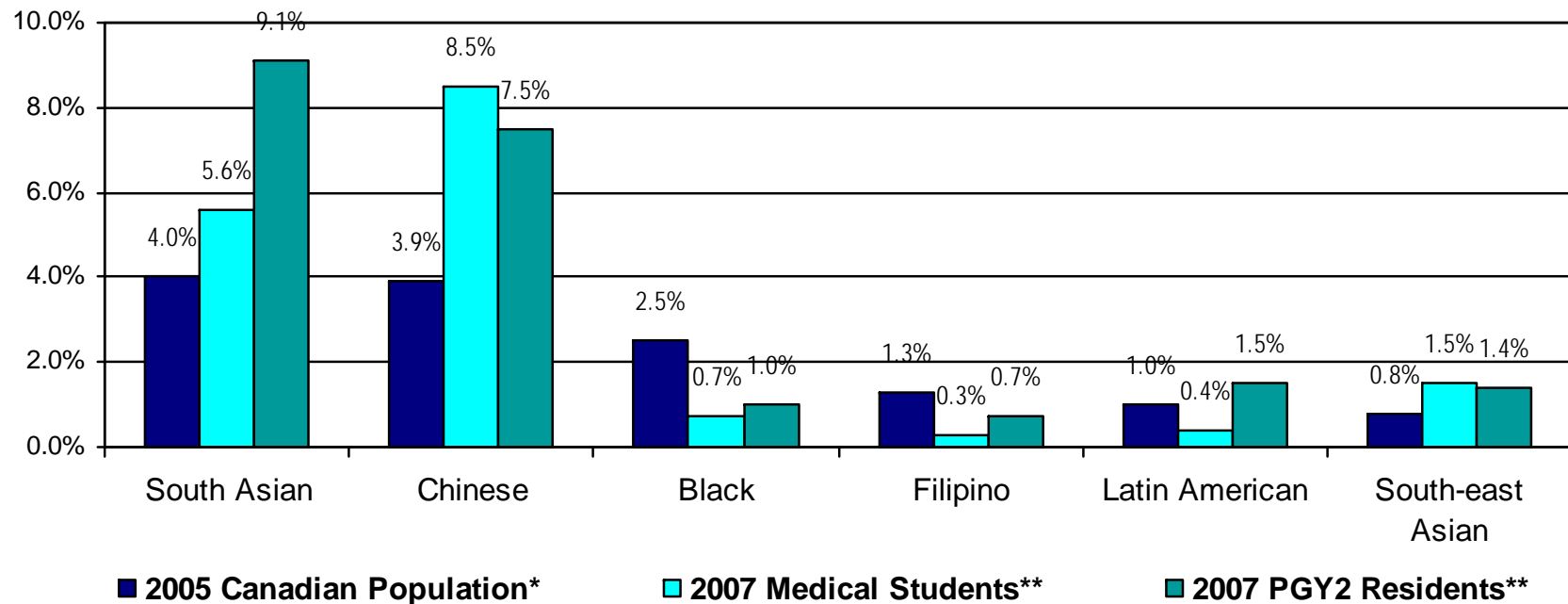
■ Female



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Diversity

Visible Minority Groups Among Medical Students, Year 2 Postgraduate Medical Trainees and the General Population, Canada



* Statistics Canada, censuses of population, 2006; ** 2007 National Physician Survey. The College of Family Physicians of Canada, Canadian Medical Association, The Royal College of Physicians and Surgeons of Canada.

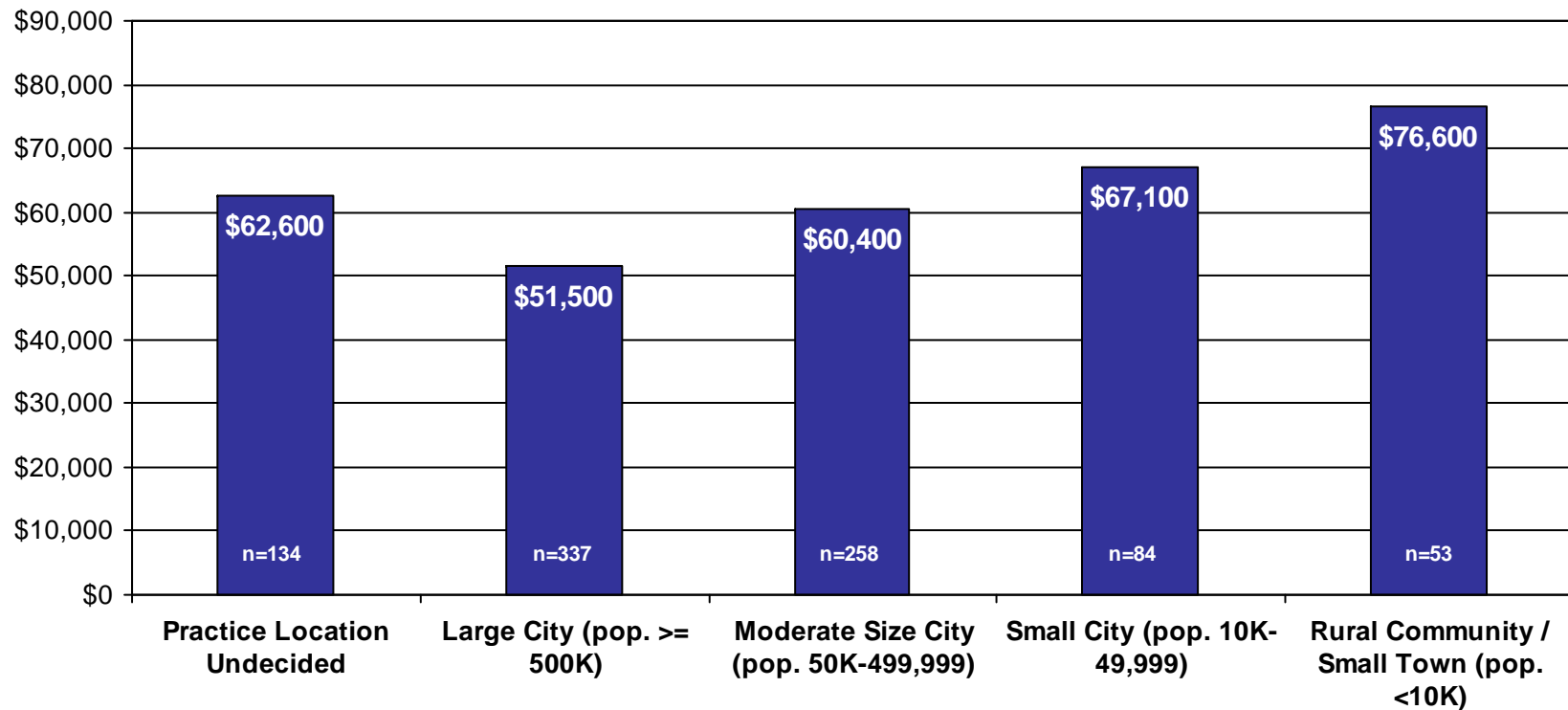
Note: The Employment Equity Act defines visible minorities as 'persons, other than Aboriginal peoples, who are non-Caucasian in race or non-white in colour.' South Asian includes, for example, 'East Indian,' 'Pakistani,' 'Sri Lankan,' etc. South-east Asian includes, for example, 'Vietnamese,' 'Cambodian,' 'Malaysian,' 'Laotian,' etc.



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Debt and Planned Practice Location

Medical Student Average Debt and Planned Practice Location, 2006



Planned Practice Location

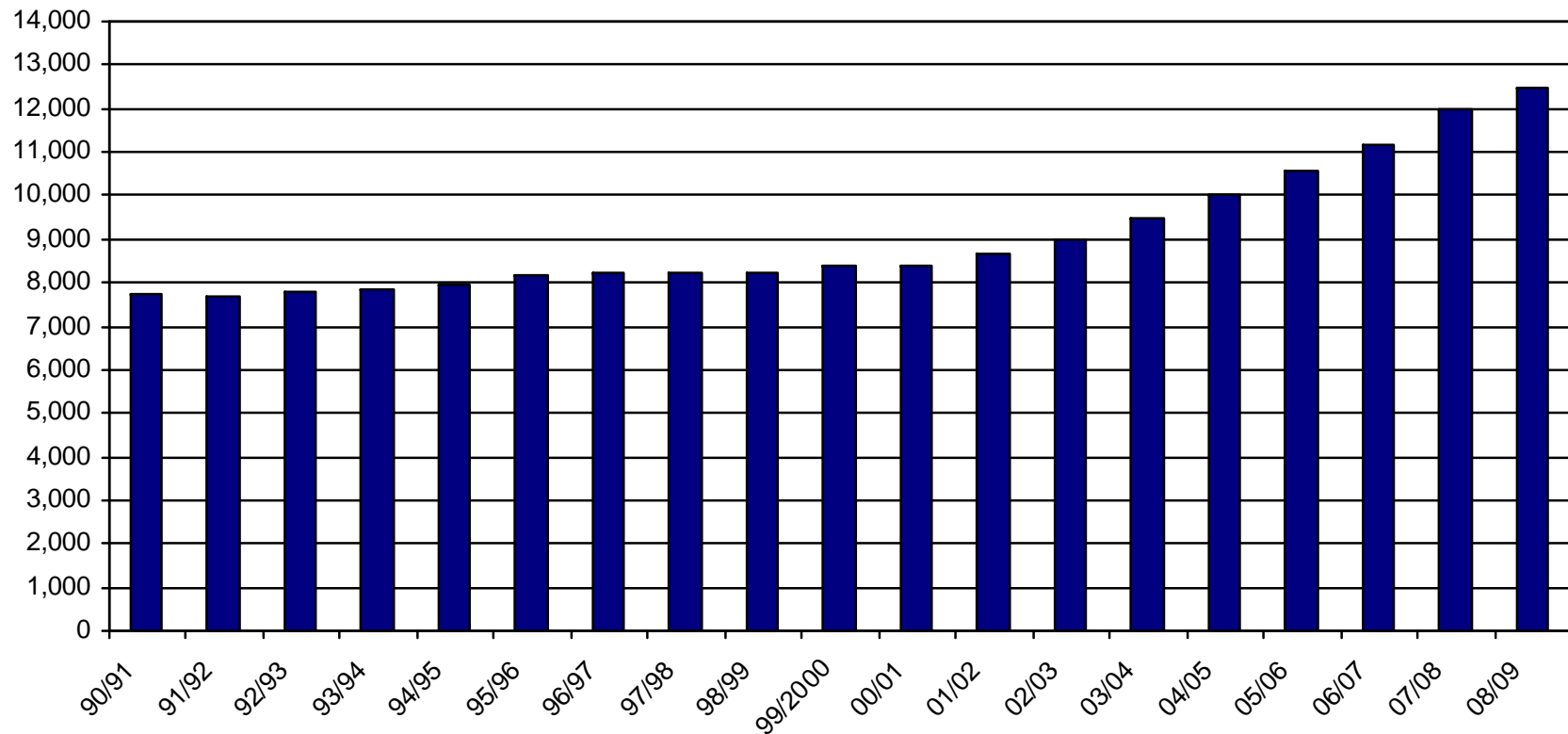
Source: Association of American Medical Colleges, Canadian Graduate Questionnaire survey.



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Post-MD Enrolment

Total Post-MD Enrolment, Canada, 1990/91 - 2008/09



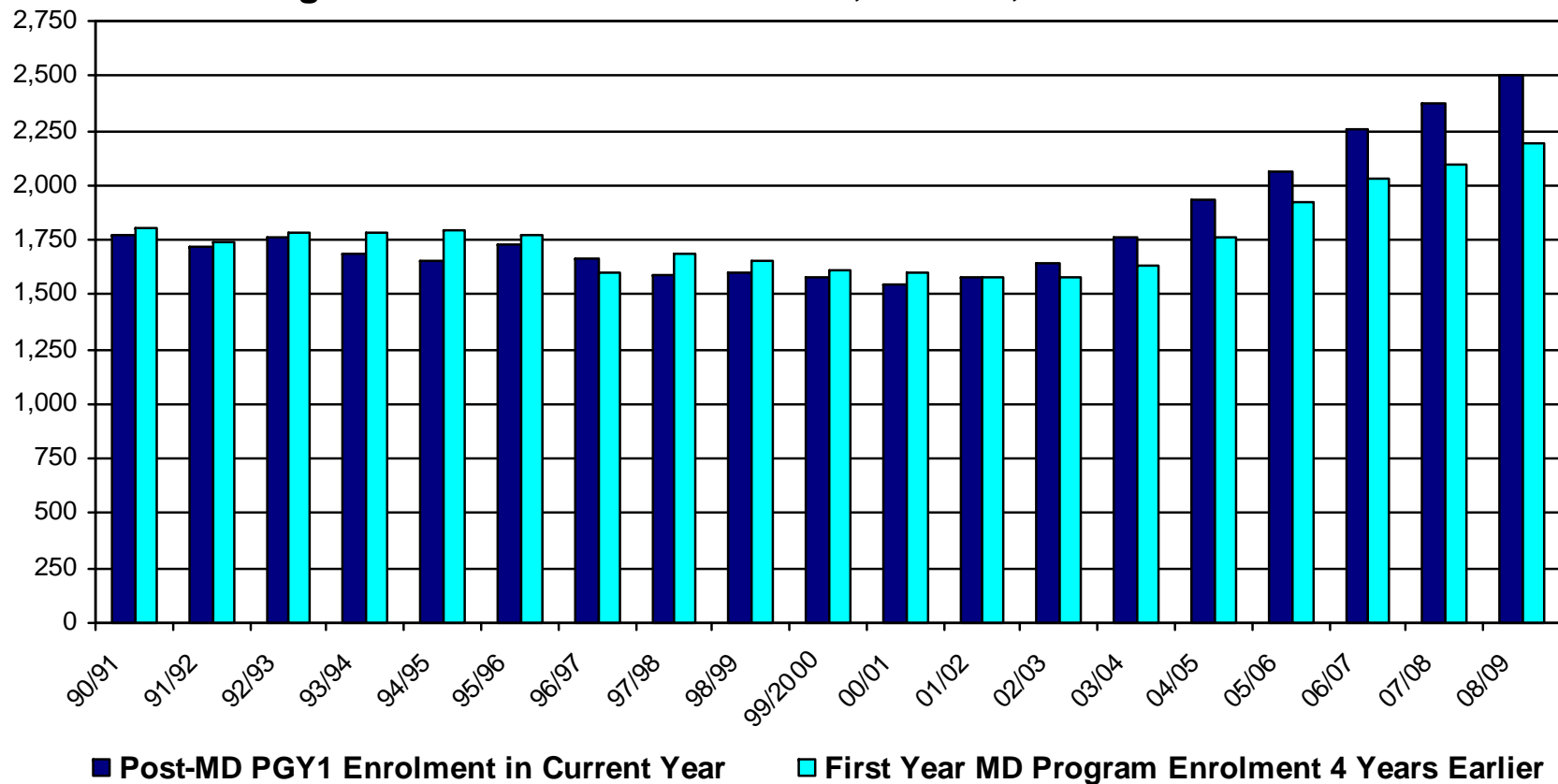
Source: CAPER, 2009.



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Post-MD Enrolment

Post-MD PGY1 Enrolment in the Current Year and First Year MD Program Enrolment 4 Years Earlier, Canada, 1990/91 - 2008/09



Source: CAPER and ORIS, AFMC, 2008

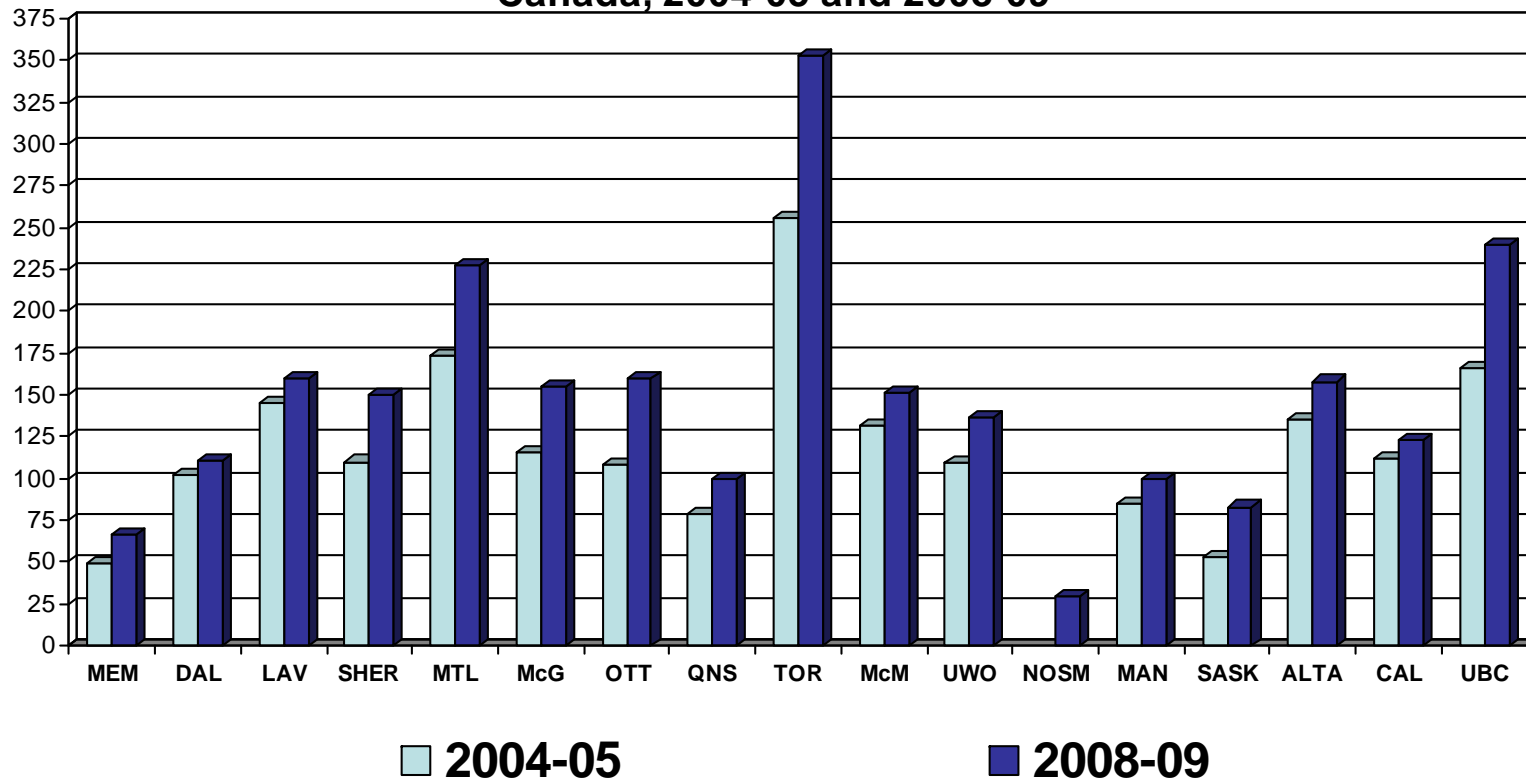
Note: Post-MD data includes Canadian citizens and permanent residents only. Visa trainees are excluded.



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First Year Post-MD Trainees

First Year Post-MD Enrolment by Faculty of Medicine,
Canada, 2004-05 and 2008-09



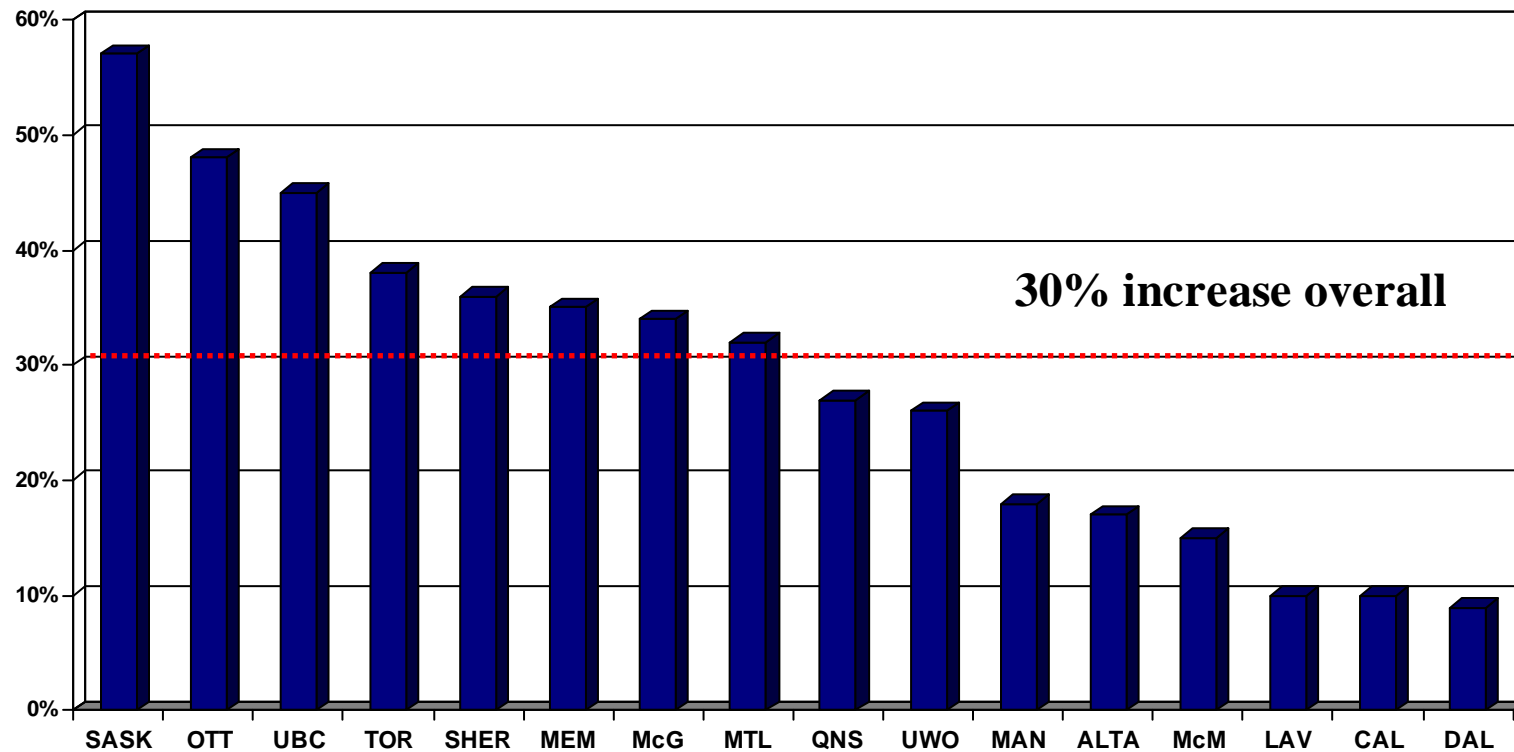
Source: CAPER, 2009. Note: Excludes Visa Trainees.



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First Year Post-MD Trainees

Percent Increase in First Year MD Program Enrolment by Faculty of Medicine,
Canada, 2004-05 to 2008-09



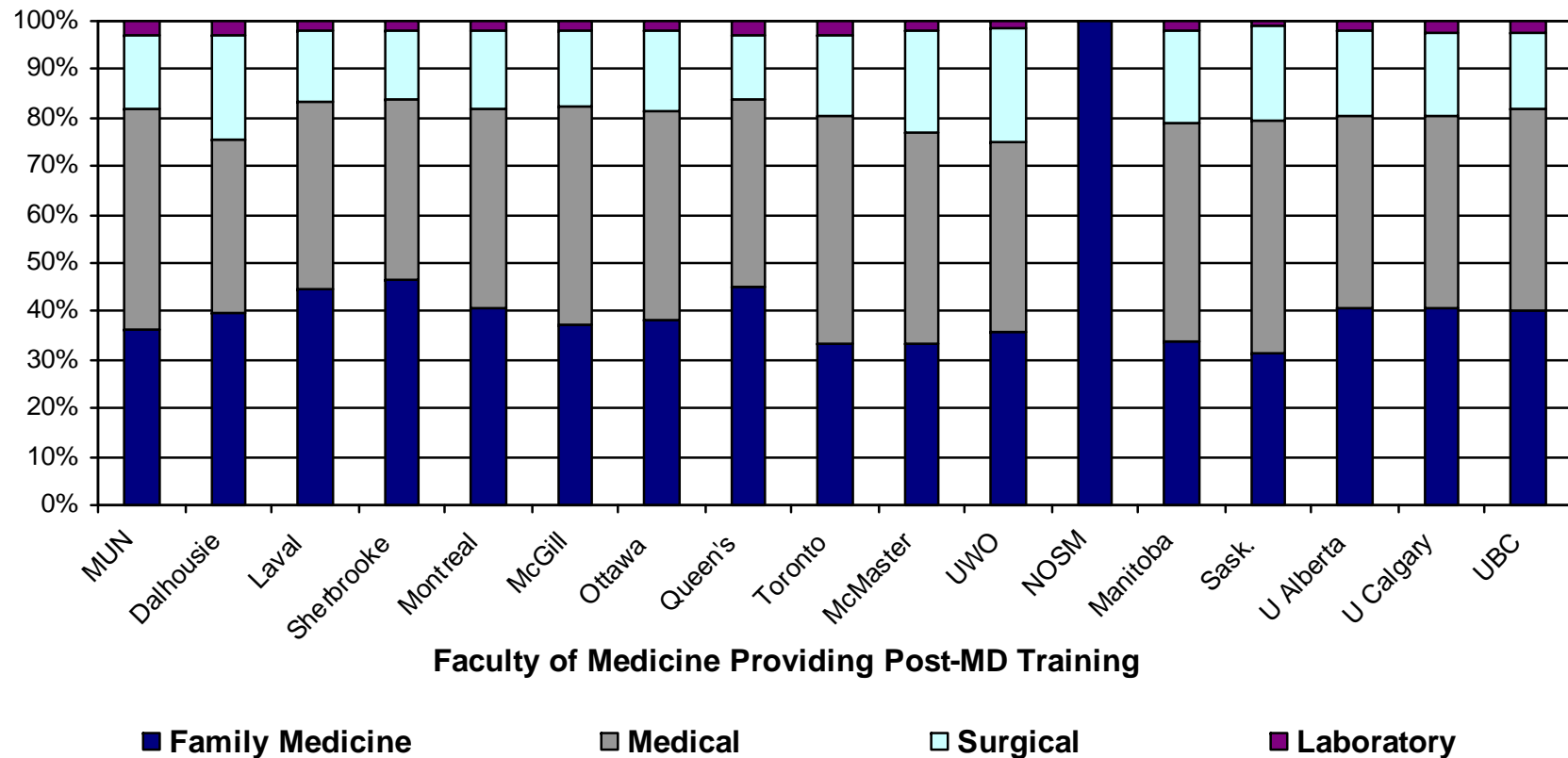
Source: CAPER, 2009. Note: Excludes Visa Trainees.



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Post-MD Trainees

Distribution of First Year Post-MD Trainees Across Broad Specialties by Faculty of Medicine Providing Post-MD Training, Canada, 2008-09



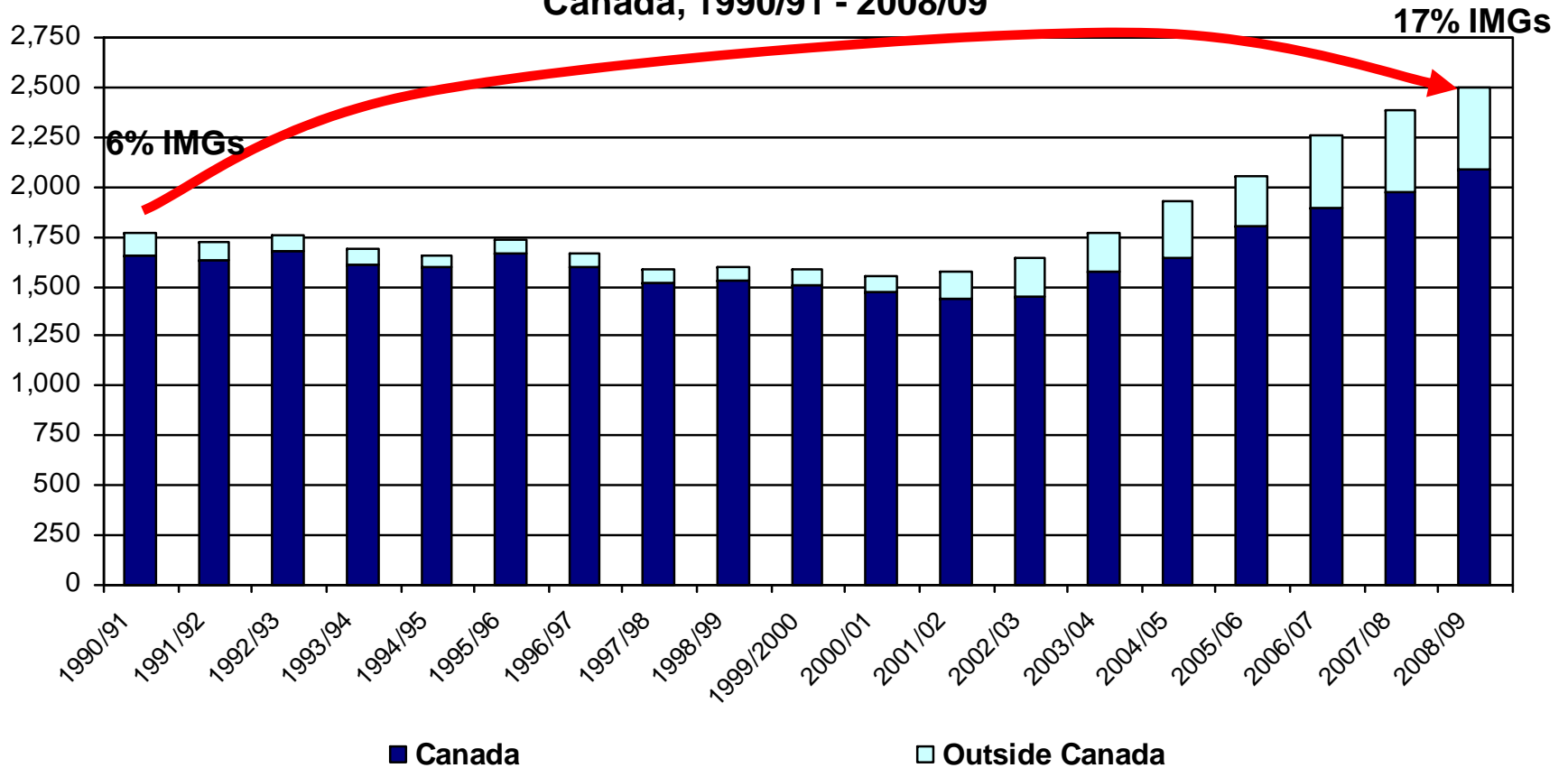
Source: AFMC CAPER, 2009; Note: Visa trainees not included.



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IMG Post-MD Enrolment

First Year Post-MD Trainees by Place of MD Graduation,
Canada, 1990/91 - 2008/09



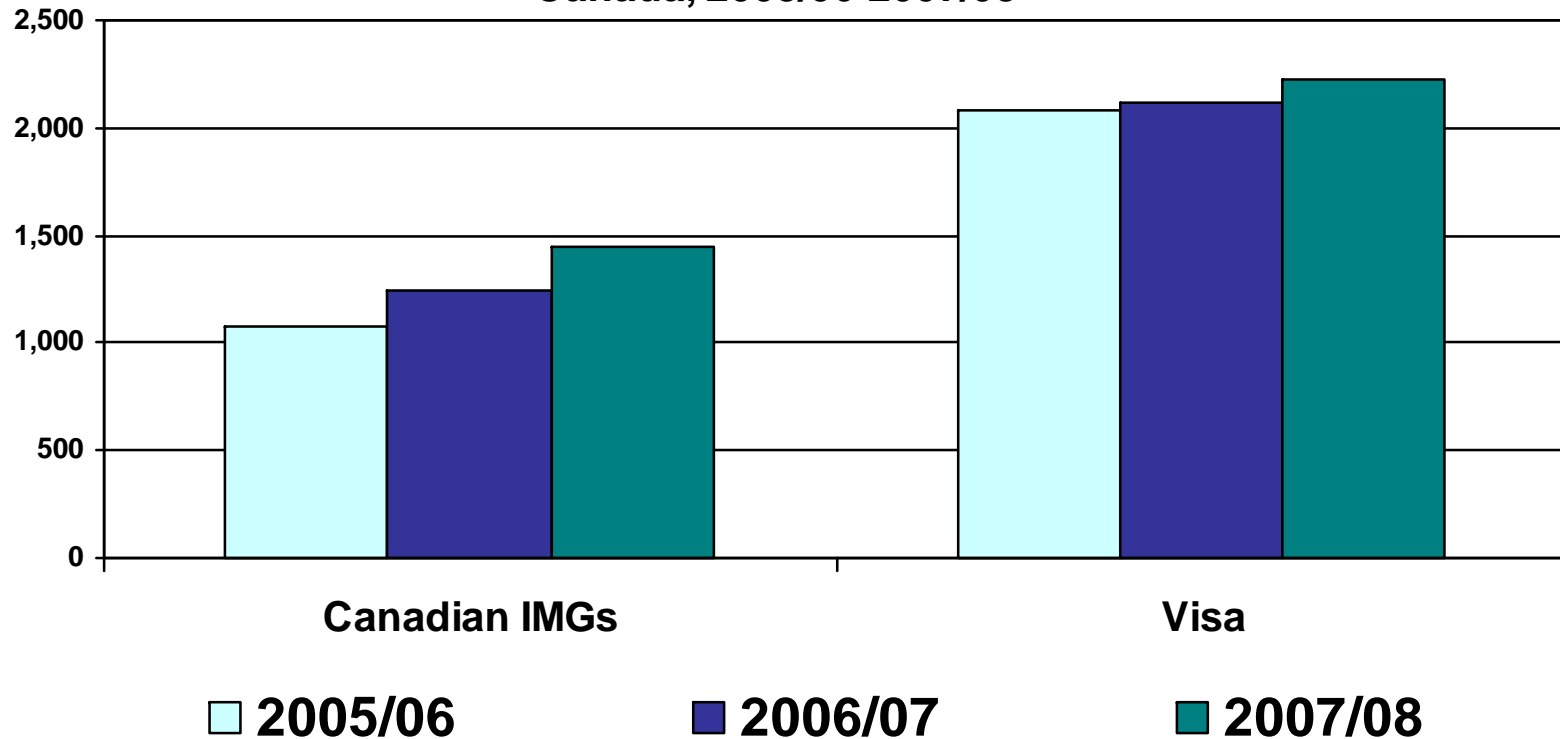
Source: CAPER, 2009. Note: Excludes visa trainees.



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IMG Post-MD Trainees

Legal Status of Post-MD IMG Trainees,
Canada, 2005/06-2007/08



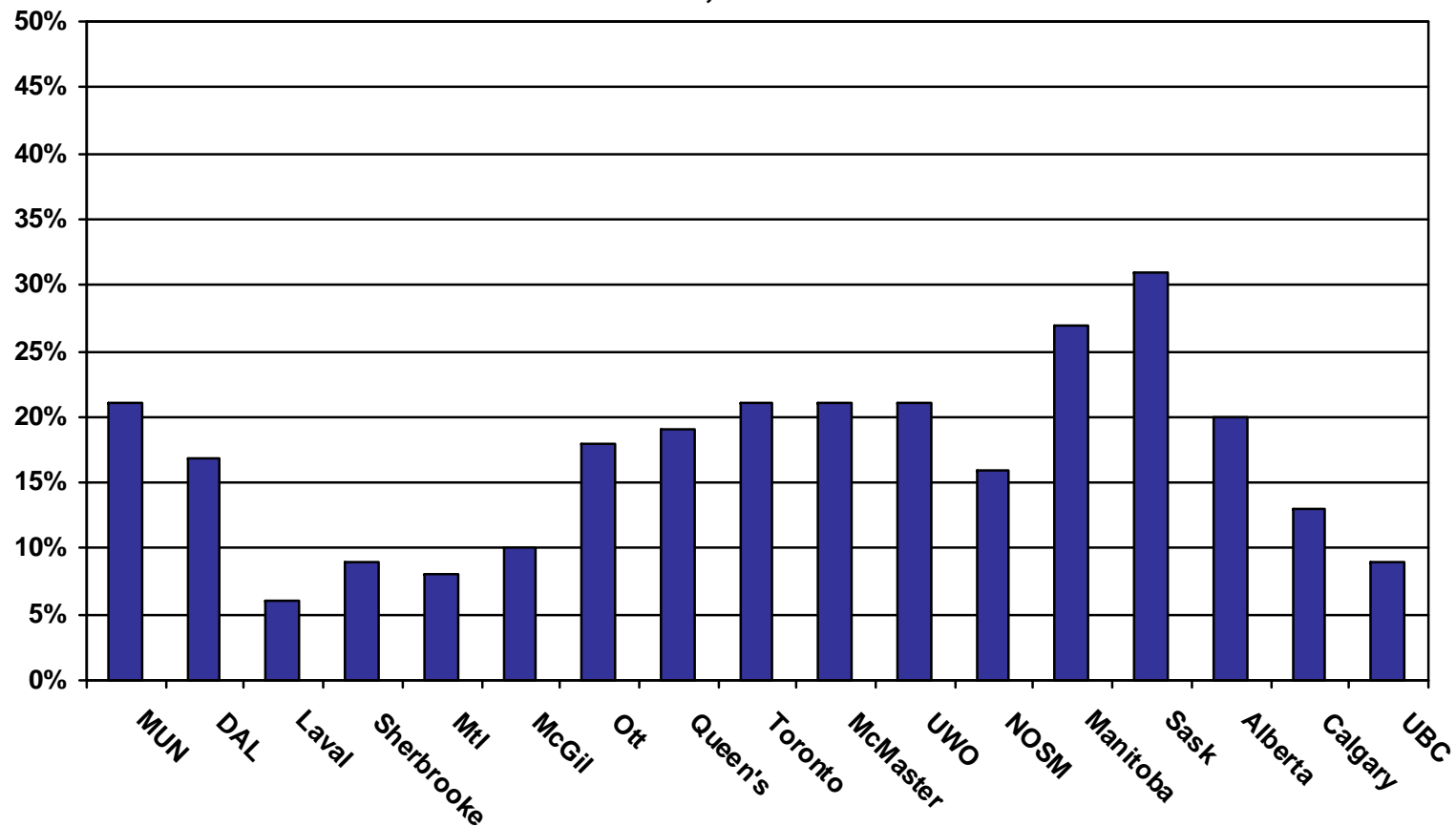
Source: National IMG Database, AFMC, 2008



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IMG Post-MD Trainees

Percent of Post-MD Trainees Who Are IMGs, by Faculty of Medicine, Canada, 2008/09



Source: CAPER 2009. Note: Excludes visa trainees.



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Visa Trainees by Country of MD Graduation, Canada, 2008-09

MD Country	Count	%total
Saudi Arabia	645	29%
India	143	6%
United Kingdom	120	5%
Libya	98	4%
Australia	89	4%
Republic of Ireland	79	4%
Oman	68	3%
Kuwait	64	3%
Israel	56	3%
Japan	47	2%
Brazil	46	2%
Egypt	45	2%
United States	41	2%
China (PRC)	40	2%
France	36	2%
Thailand	36	2%
Switzerland	33	1%
Canada	31	1%
Bahrain	31	1%
Pakistan	28	1%
Germany	27	1%
United Arab Emirates	25	1%
Other	391	18%
TOTAL	2,219	100%



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**Post-MD Training Programs With \geq 50% Visa Trainees,
Canada, 2008-09**

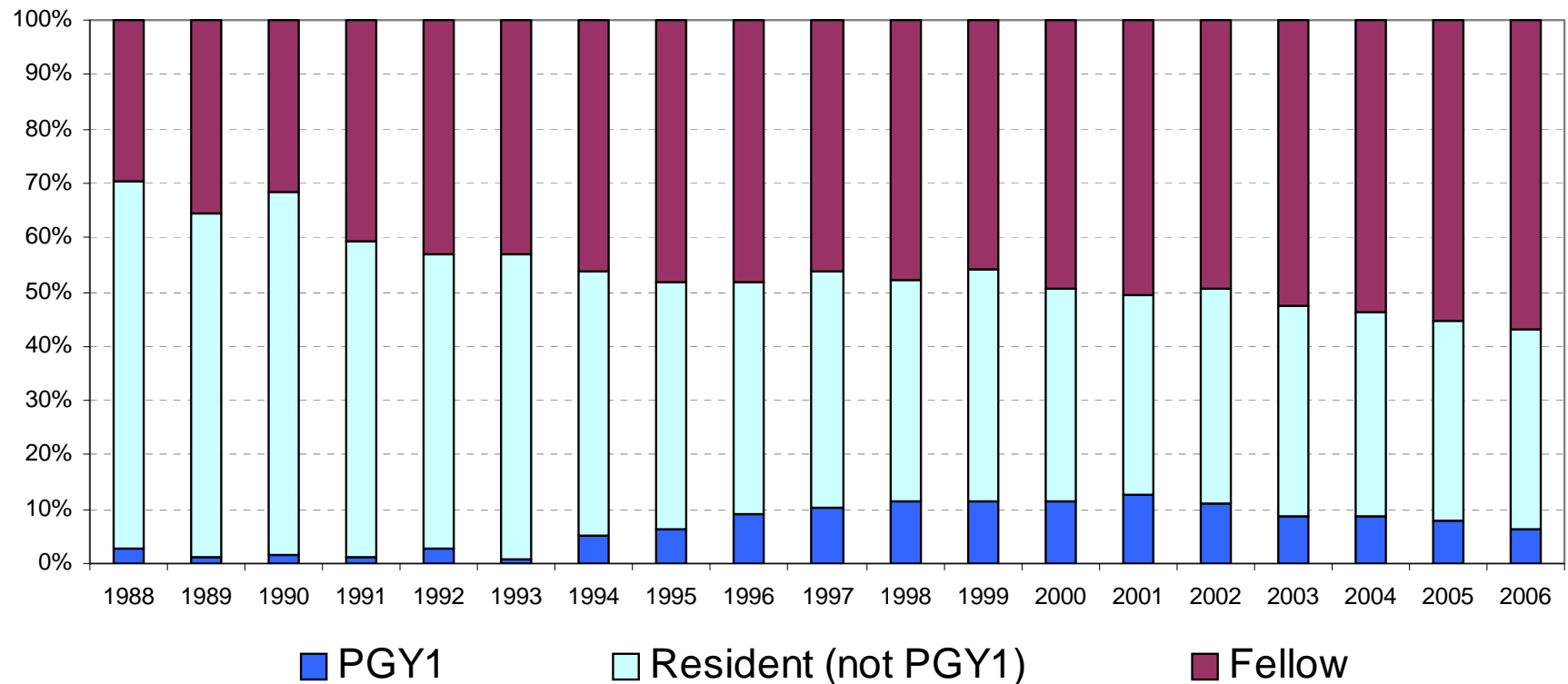
Field of Post-M.D. Training	Can. Citizens/Perm. Residents		Visa		Total	
	Count	Row %	Count	Row %	Count	Row %
Clinical Pharmacology (Anes.)			2	100.0%	2	100.0%
Pediatric Diagnostic Radiology (Diag. Rad.)	4	17.4%	19	82.6%	23	100.0%
Nephrology (Ped.)	6	20.7%	23	79.3%	29	100.0%
Transfusion Med. (Int.Med.)	1	25.0%	3	75.0%	4	100.0%
Neonatal-Perinatal Med. (Ped.)	26	27.7%	68	72.3%	94	100.0%
Cardiology (Ped.)	15	29.4%	36	70.6%	51	100.0%
Gastroenterology (Ped.)	11	31.4%	24	68.6%	35	100.0%
Gyn. Oncology (Ob./Gyn.)	8	33.3%	16	66.7%	24	100.0%
Critical Care (Ped.)	14	34.1%	27	65.9%	41	100.0%
Developmental Pediatrics (Ped.)	6	35.3%	11	64.7%	17	100.0%
Respirology (Ped.)	6	35.3%	11	64.7%	17	100.0%
Pediatric General Surgery	6	35.3%	11	64.7%	17	100.0%
Neuroradiology	9	36.0%	16	64.0%	25	100.0%
Infectious Diseases (Ped.)	13	41.9%	18	58.1%	31	100.0%
Endocrinology/Met. (Ped.)	11	42.3%	15	57.7%	26	100.0%
Thoracic Surgery	13	43.3%	17	56.7%	30	100.0%
Hematology/Oncology (Ped.)	23	43.4%	30	56.6%	53	100.0%
Gen. Surgical Oncology	7	46.7%	8	53.3%	15	100.0%
Rheumatology (Int.Med.)	24	48.0%	26	52.0%	50	100.0%
Clinical Pharmacology (Ped.)	3	50.0%	3	50.0%	6	100.0%
Colorectal Surgery	3	50.0%	3	50.0%	6	100.0%
Gyn.Rep.Endocrin./Infertility	7	50.0%	7	50.0%	14	100.0%



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Post-MD Visa Trainees

Percent Distribution of Visa Trainees by Post-M.D. Training Level, 1988 - 2006



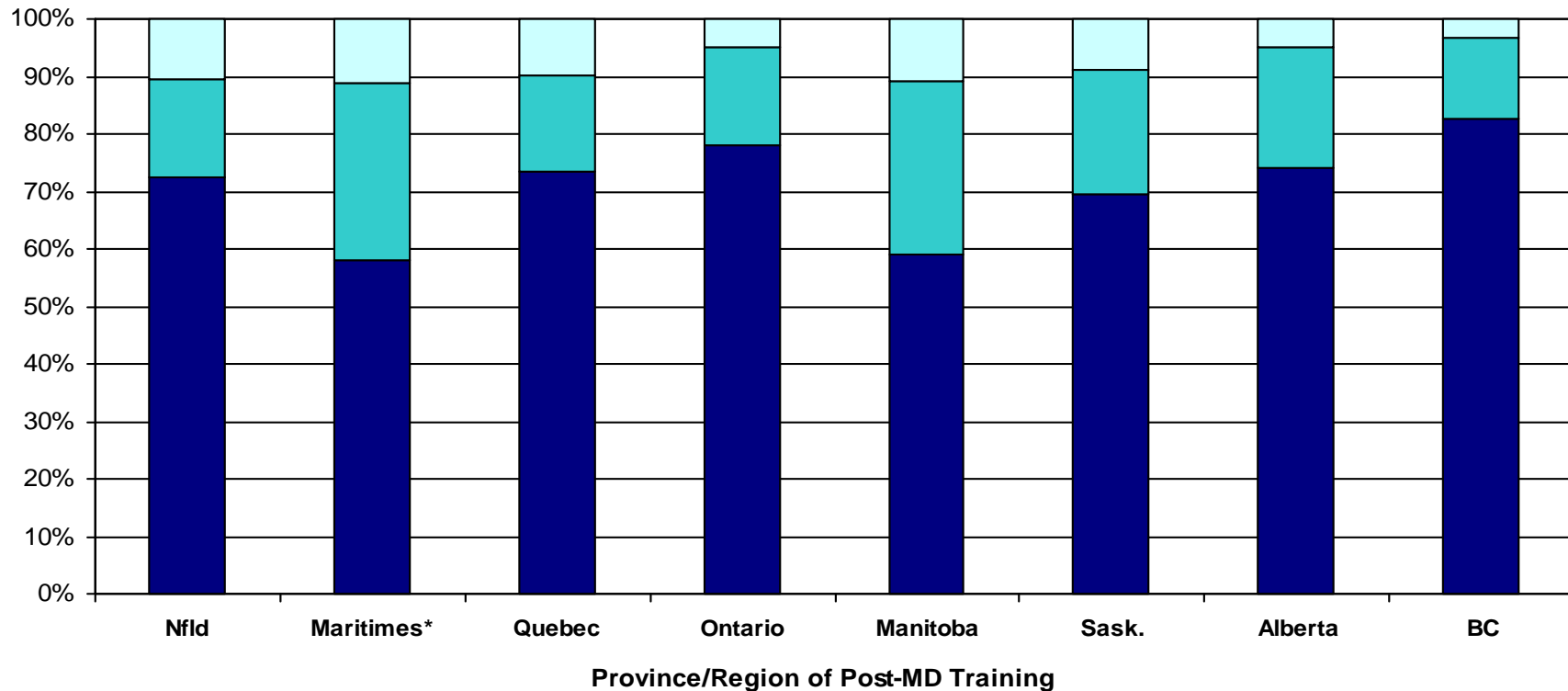
Source: Canadian Post-M.D. Education Registry (CAPER)



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After Post-MD Training

2007 Practice Location of Post-MD Trainees Who Exited Training in 2005
(2 Year Practice Location)



■ Within Prov/Region of Post-MD Exit

■ Inside Canada, Outside Prov/Region of Post-MD Exit

□ Outside Canada or Not Located

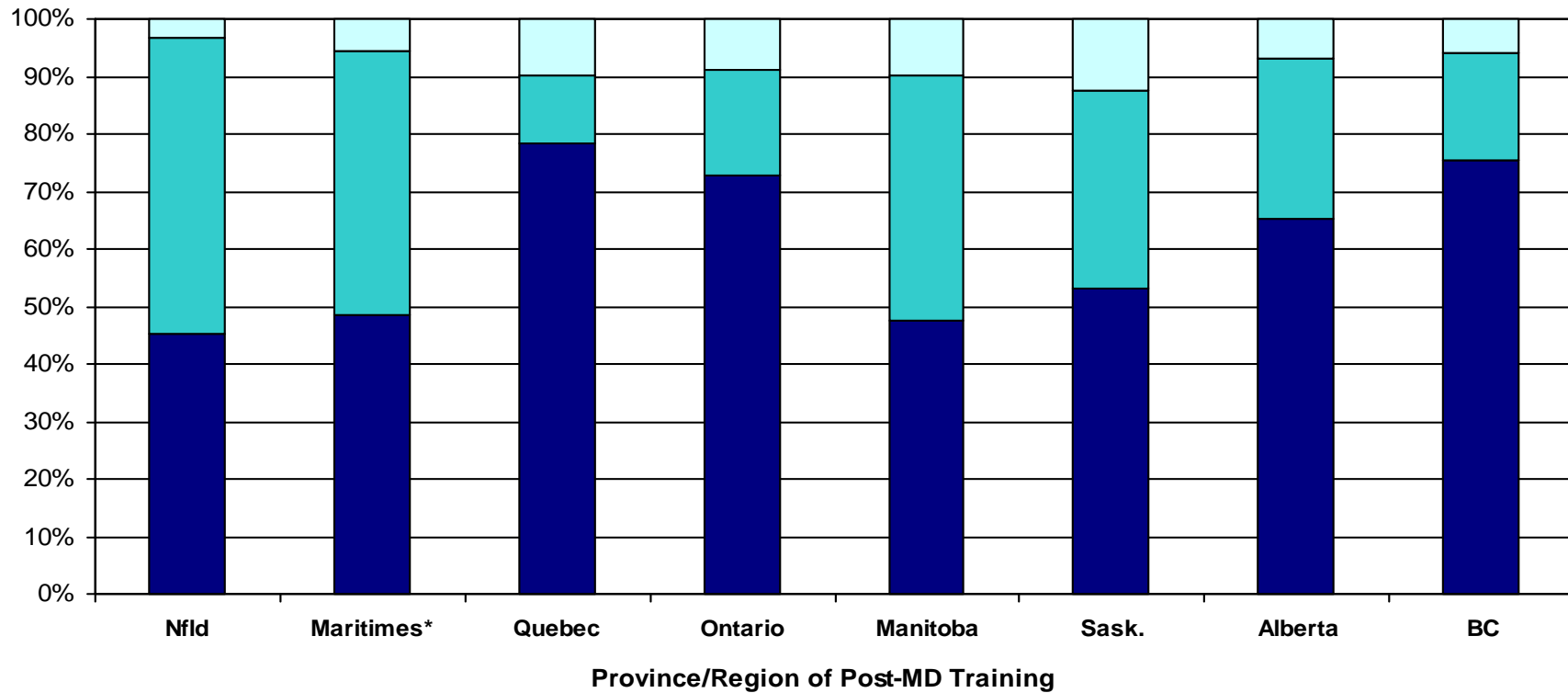
*Includes Dalhousie post-MD graduates practising in PEI, Nova Scotia and New Brunswick; Source: CAPER, AFMC, 2008.



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After Post-MD Training

2007 Practice Location of Post-MD Trainees Who Exited Training in 2002
(5 Year Practice Location)



■ Within Prov/Region of Post-MD Exit

■ Inside Canada, Outside Prov/Region of Post-MD Exit

□ Outside Canada or Not Located

*Includes Dalhousie post-MD graduates practising in PEI, Nova Scotia and New Brunswick; Source: CAPER, AFMC, 2008.