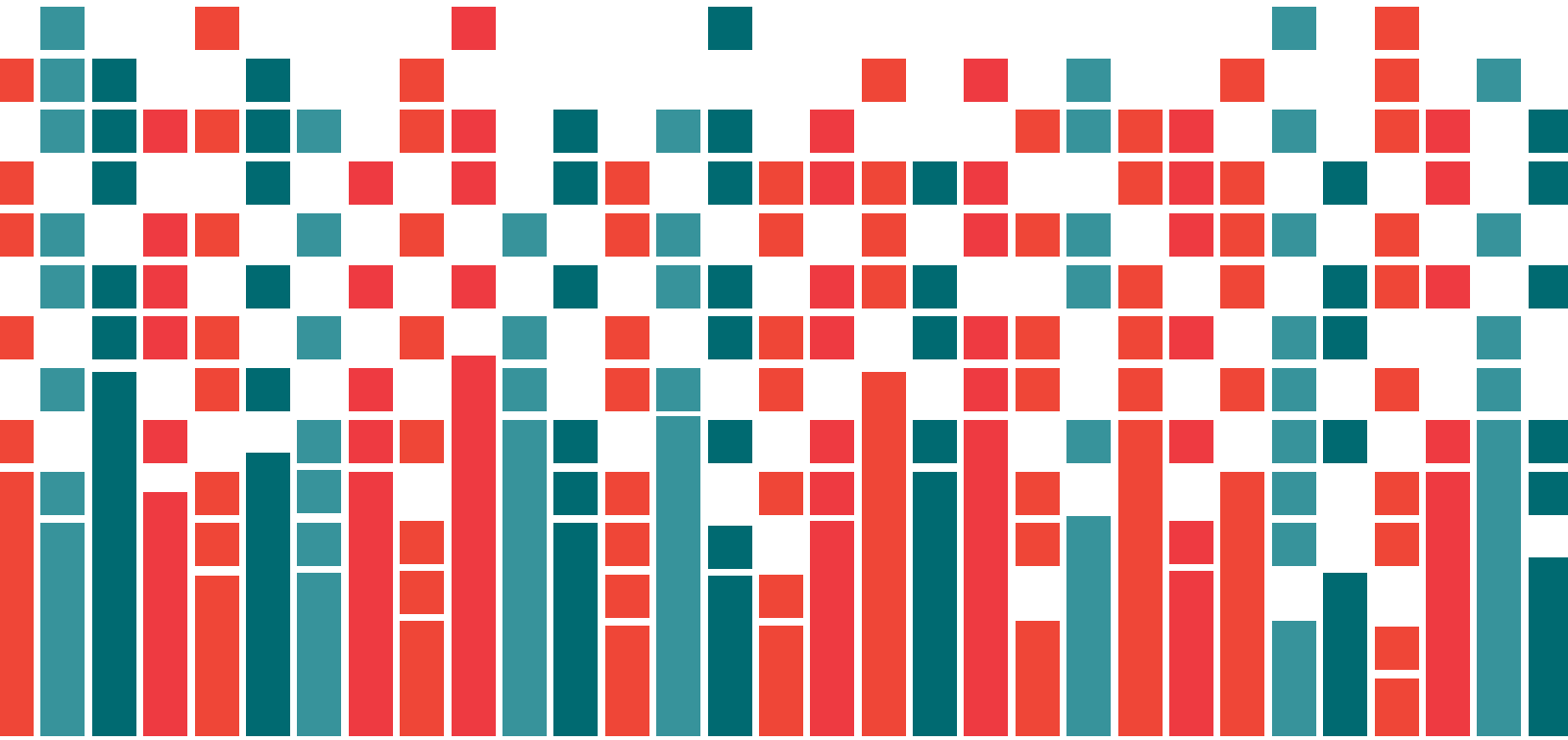




Tomorrow's Doctors, Tomorrow's Cures®



2012 Physician Specialty Data Book

Center for Workforce Studies

November 2012

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Introduction

This publication, prepared by the Center for Workforce Studies at the Association of American Medical Colleges (AAMC), provides detailed statistics about active physicians and physicians in training in the specialties with the largest number of active physicians (i.e., specialties with more than 2,500 active physicians) in the United States. The 2012 Physician Specialty Data Book, an update of the 2008 edition, provides the most current data available about the physician workforce across specialties in a series of figures and tables. Additionally, the 2012 edition provides a summary table comparing the means in 2007 and 2010.

This Data Book is divided into two sections:

Section 1: Active Physicians. This section provides data on active physicians in the United States, including general characteristics; specialties with the largest numbers of physicians; number of people per active physician by specialty; age, gender, and type of degree data by specialty; state retention by specialty; and percent change in the number of active physicians by specialty (2000-2010). Data on race and ethnicity were not available.

Section 2: Graduate Medical Education. This section presents data on physicians in residency and fellowship programs, including the number by specialty, the percentage who are female by specialty, degree information by specialty, and the percent change in the number of residents and fellows by specialty (2005-2010).

The primary data sources for this report include:

The American Medical Association (AMA) 2011 Physician Masterfile (data as of Dec. 31, 2010), population estimates from the U.S. Census Bureau, and the AAMC/AMA National GME Census.

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Acknowledgments

We would like to express our appreciation to our AAMC colleagues for their collaborative efforts. We would also like to thank the AMA for making the Masterfile data available to the AAMC for purposes of data analysis.

Note

In Figures 3-17, primary care specialties (internal medicine, family medicine/general practice, pediatrics, and internal medicine/pediatrics) are shaded differently for easy reference.

Key Findings — Active Physicians

- In 2010, the specialties with the largest numbers of active physicians were the primary care specialties of internal medicine (109,048), family medicine/general practice (106,549), and pediatrics (55,509) (Table 1).
- In 2010, less than one-third (30.4%) of the active physician workforce in the United States was female (Figure 1). Percentages of females in the top specialties ranged from a high of 58.1% in pediatrics to a low of 4.0% in orthopedic surgery (Table 3).
- In 2010, four in 10 active physicians in the United States were age 55 or older (Figure 1). Percentages in individual specialties ranged from a high of 62.4% age 55 or older in preventive medicine to a low of 3.2% in internal medicine/pediatrics (Table 4).
- The specialties with the highest percentage of active physicians practicing in the same state where they trained were child and adolescent psychiatry (57.4%), psychiatry (56.4%), and family medicine/general practice (56.3%). The specialties with the lowest percentage practicing in the same state were plastic surgery (34.1%), neurological surgery (33.7%), and thoracic surgery (32%) (Table 8).
- The 10-year period from 2000 to 2010 saw remarkable growth in some specialties, particularly some of the newer specialties such as internal medicine/pediatrics, which tripled from 934 to more than 3000. Geriatric medicine (71.6%) and emergency medicine (44.6%) also experienced notable growth (Table 9).

Key Findings — Graduate Medical Education

- In 2010, the specialties with the largest number of first-year ACGME residents and fellows were the primary care specialties of internal medicine (8,551), family medicine/general practice (3,246), and pediatrics (2,696) (Table 10).
- In 2010, the largest proportion of residents and fellows in ACGME-accredited programs were U.S. M.D.s (65.0%), while International Medical Graduates (I.M.G.s) comprised 27.4% and 7.3% were D.O.s (Figure 2).
- In 2010, 46.1% of the residents and fellows in ACGME-accredited programs were female (Figure 2). Percentages in the top specialties ranged from a high of 81.4% female in obstetrics and gynecology residencies to a low of 13.2% female in orthopedic surgery residencies (Table 11).
- Between 2005 and 2010, neurological surgery (59.2%), vascular surgery (53.7%), and urology (50.0%) saw the most growth in the number of first-year ACGME residents and fellows. Plastic surgery (-30.2%), preventive medicine (-25.0%), and thoracic surgery (-17.4%) saw the biggest decreases (Table 15).

Key Definitions

Active physicians: Physicians (federal and non-federal) who are licensed by a state are considered active, provided they are working at least 20 hours per week. Physicians who are retired, semi-retired, temporarily not in practice, not active for other reasons, or who have not completed their graduate medical education are excluded. Active physicians include those working in direct patient care, administration, medical teaching, research, or other non-patient care activities. Active physicians include physicians with a Doctorate of Medicine (M.D.) and physicians with a Doctor of Osteopathy (D.O.). The total number of active physicians may differ between tables in this report, as a result of missing information in the data file. For example, to determine the percentage of active physicians who are female, the total number of active physicians excludes people whose gender was not reported in the data file.

U.S. M.D.: Physicians who received their Doctor of Medicine from a U.S. allopathic medical school.

D.O.: Physicians who received their Doctor of Osteopathy from a U.S. osteopathic school.

First-year residents/fellows: Physicians who are in their first year of a graduate medical education (GME) in their specialty are considered first-year residents or fellows. In some cases, the resident or fellow may have had prior GME training in a different specialty.

International medical graduate: An individual with an M.D. or related degree who graduated from a medical school outside the United States or Canada is considered an international medical graduate (IMG). This includes U.S. citizens who have gone outside of the United States to attend medical school. To be eligible for licensure and practice in the United States, all IMGs must complete accredited graduate training in the United States or its equivalent.

Commonly Used Acronyms

AAMC	Association of American Medical Colleges
ACGME	Accreditation Council for Graduate Medical Education
AMA	American Medical Association
D.O.	Doctor of Osteopathy
GME	Graduate medical education
IMG	International medical graduate
M.D.	Doctor of Medicine

Practice Specialty

This report presents data on the specialties with the largest number of active physicians in 2010, defined as having more than 2,500 active physicians. Specialty designations for active physicians rely on the primary specialty selected by the physician on the Census of Physicians, which is administered by the AMA. Specialty designations for residents and fellows reflect the ACGME training program in which the physician is training.

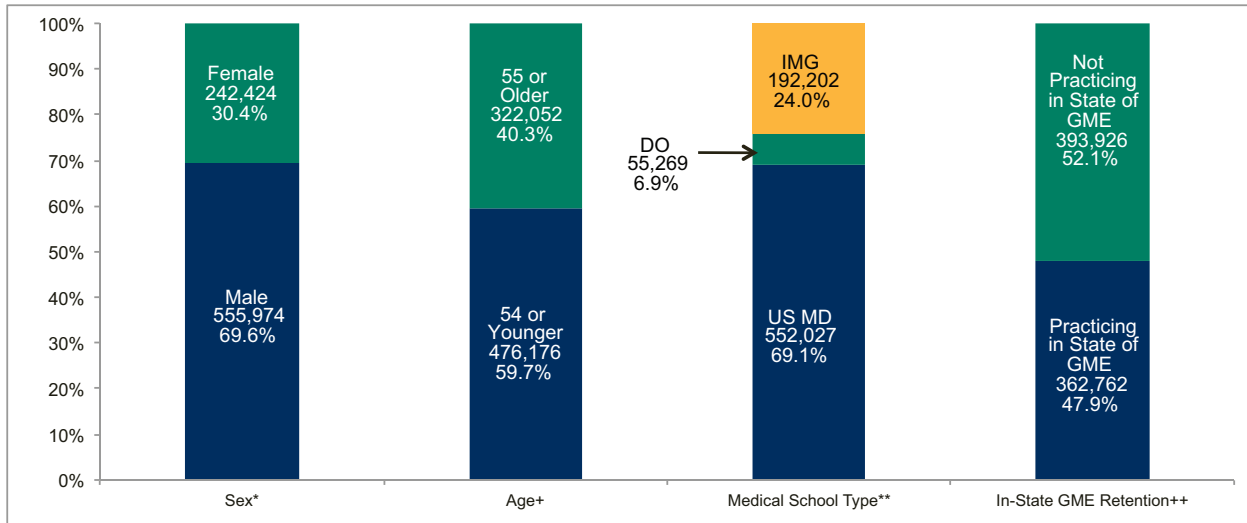
The AMA Physician Masterfile lists more than 200 specialty categories and there are more than 140 ACGME specialties and subspecialties. To give a more comprehensive and informative view of the specialty category, we grouped some related specialties together. Because of differences in the specialty designations between the AMA Physician Masterfile and the ACGME, specialty groupings used in this report will sometimes vary for active physicians and trainees as indicated below.

Specialty In This Report	AMA Physician Masterfile Specialties Included	ACGME Specialties and Subspecialties Included
Allergy & Immunology	Allergy Allergy and Immunology Immunology	Allergy and Immunology
Anatomic/Clinical Pathology	Anatomic Pathology Anatomic/Clinical Pathology Chemical Pathology Clinical Pathology	Chemical Pathology (Pathology) Pathology-Anatomic & Clinical
Anesthesiology	Anesthesiology	Anesthesiology
Cardiovascular Disease	Cardiovascular Disease	Cardiovascular Disease
Child & Adolescent Psychiatry	Child & Adolescent Psychiatry	Child & Adolescent Psychiatry Pediatrics/Psych/Child & Adolescent Psych
Dermatology	Dermatology	Dermatology
Emergency Medicine	Emergency Medicine	Emergency Medicine
Endocrinology, Diabetes & Metabolism	Diabetes Endocrinology, Diabetes & Metabolism	Endocrinology, Diabetes & Metabolism
Family Medicine/General Practice	Family Medicine General Practice	Family Medicine
Gastroenterology	Gastroenterology	Gastroenterology
General Surgery	General Surgery	General Surgery

Geriatric Medicine	Geriatric Medicine (Family Practice) Geriatric Medicine (Internal Medicine)	Geriatric Medicine (Family Practice) Geriatric Medicine (Internal Medicine)
Hematology & Oncology	Hematology (Internal Medicine) Medical Oncology Hematology and Oncology (Internal Medicine)	Hematology/Oncology Hematology (Internal Medicine) Oncology (Internal Medicine)
Infectious Disease	Infectious Disease	Infectious Disease
Internal Medicine	Internal Medicine	Internal Medicine Internal Medicine/Family Practice
Internal Medicine/ Pediatrics	Internal Medicine/Pediatrics	Internal Medicine/Pediatrics
Neonatal-Perinatal Medicine	Neonatal-Perinatal Medicine	Neonatal-Perinatal Medicine
Nephrology	Nephrology	Nephrology
Neurological Surgery	Neurological Surgery	Neurological Surgery
Neurology	Neurology	Neurology
Obstetrics & Gynecology	Gynecology Obstetrics Obstetrics & Gynecology	Obstetrics & Gynecology
Ophthalmology	Ophthalmology	Ophthalmology
Orthopedic Surgery	Orthopedic Surgery	Orthopedic Surgery
Otolaryngology	Otolaryngology	Otolaryngology
Pediatrics	Pediatrics	Pediatrics
Physical Medicine & Rehabilitation	Physical Medicine & Rehabilitation	Physical Medicine & Rehabilitation
Plastic Surgery	Facial Plastic Surgery Plastic Surgery Plastic Surgery Within The Head & Neck	Plastic Surgery
Preventive Medicine	Aerospace Medicine General Preventive Medicine Occupational Medicine Public Health & General Preventive Medicine	Preventive Medicine

Psychiatry	Addiction Medicine Psychiatry Psychoanalysis Psychosomatic Medicine Addiction Psychiatry (Psychiatry)	Addiction Psychiatry Psychiatry Psychosomatic Medicine (Psychiatry)
Pulmonary Disease & Critical Care Medicine (Internal Medicine)	Critical Care Medicine (Internal Medicine) Pulmonary & Critical Care Medicine Pulmonary Disease	Critical Care Medicine (Internal Medicine) Pulmonary Disease (Internal Medicine) Pulmonary Disease and Critical Care Medicine (Internal Medicine)
Radiation Oncology	Radiation Oncology	Radiation Oncology
Radiology & Diagnostic Radiology	Diagnostic Radiology Radiology-Diagnostic	Radiology
Rheumatology	Rheumatology	Rheumatology
Thoracic Surgery	Cardiothoracic Surgery Cardiovascular Surgery Thoracic Surgery	Congenital Cardiac Surgery (Thoracic Surgery) Thoracic Surgery
Urology	Urology	Urology
Vascular Surgery	Vascular Surgery	Vascular Surgery (General Surgery) Vascular Surgery-Integrated

Figure 1. Characteristics of Active Physicians in the United States, 2010



Source: AMA Physician Masterfile (December 2010)

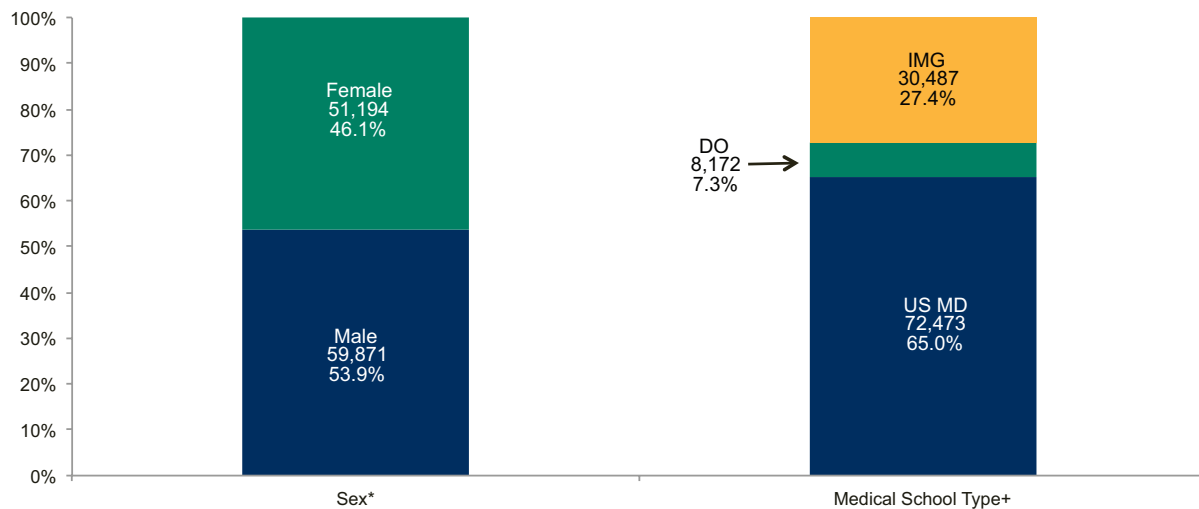
* Excludes 1,104 active physicians whose sex is unknown.

+ Excludes 1,274 active physicians whose age is unknown.

** Excludes 30 active physicians whose medical school is unknown.

++ Excludes 42,814 active physicians whose graduate medical education information is unknown.

Figure 2. Characteristics of Residents/Fellows in ACGME-Accredited Programs, 2010

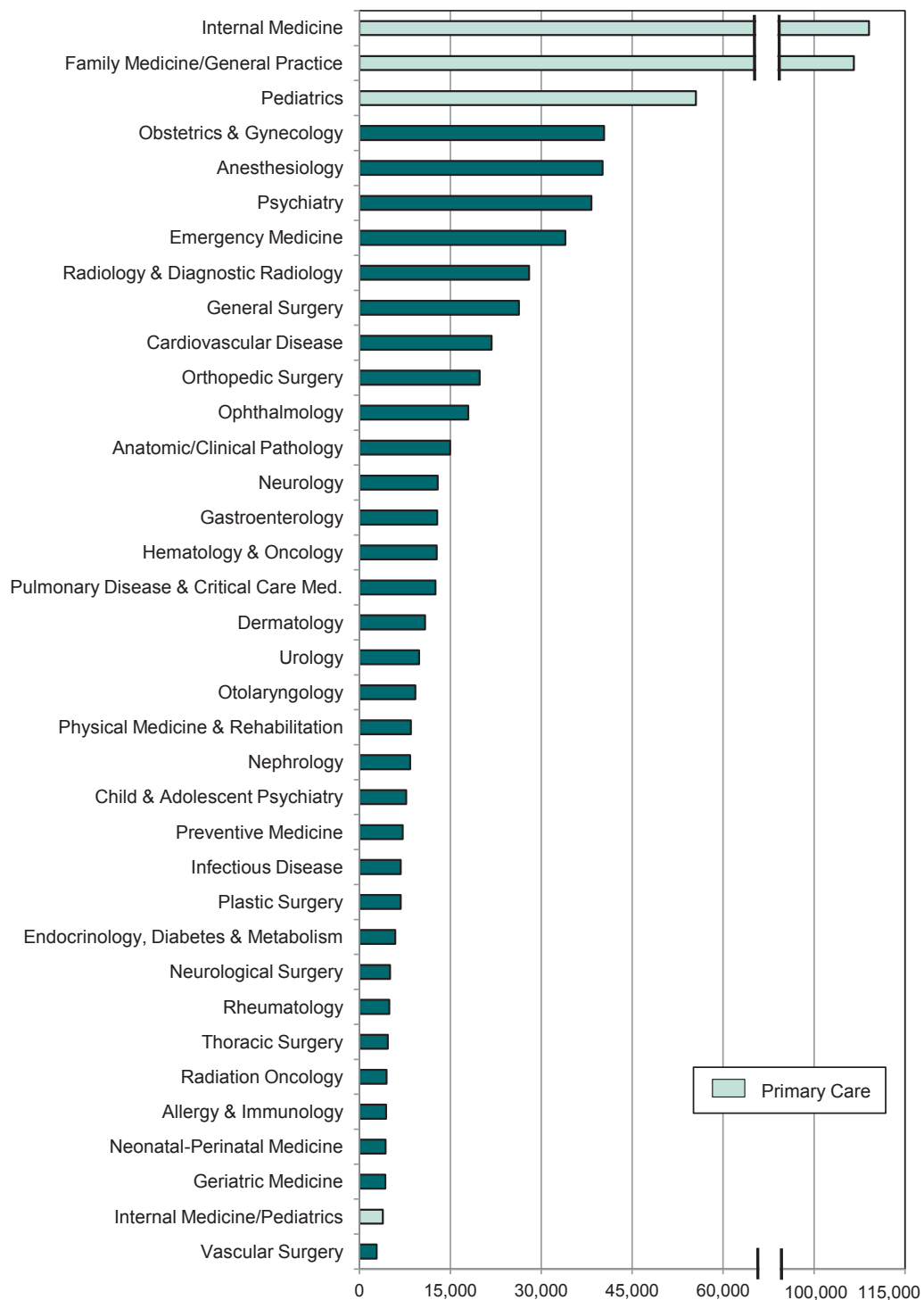


Source: 2010 AAMC/AMA National GME Census

* Excludes 373 residents/fellows whose sex is unknown.

+ Excludes 2 residents whose medical school is unknown. Not shown here are 242 residents/fellows who graduated from Canadian medical schools and 62 who graduated in the Fifth Pathway program.

Figure 3. Specialties with the Largest Number of Active Physicians, 2010



Source: AMA Physician Masterfile (December 2010)

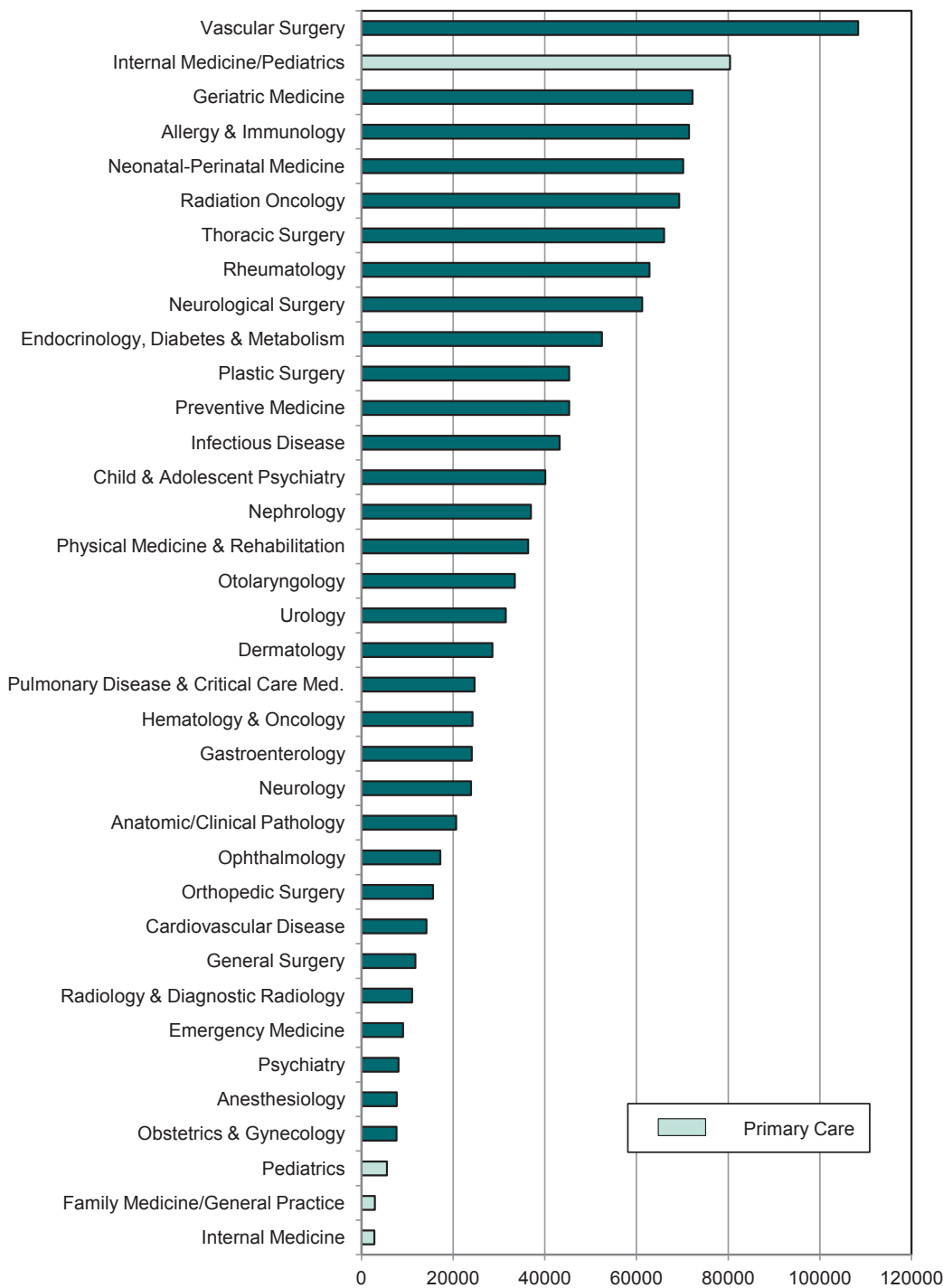
Table 1. Number of Physicians in the Largest Specialties by Major Professional Activity, 2010

Specialty	Total Active Physicians	Patient Care	Teaching	Research	Other ¹
Allergy & Immunology	4,325	3,668	40	310	307
Anatomic/Clinical Pathology	14,975	11,231	316	600	2,828
Anesthesiology	40,123	36,462	470	203	2,988
Cardiovascular Disease	21,819	19,637	301	644	1,237
Child & Adolescent Psychiatry	7,706	6,449	138	124	995
Dermatology	10,820	10,101	80	102	537
Emergency Medicine	33,984	30,094	321	104	3,465
Endocrinology, Diabetes & Metabolism	5,891	4,502	138	585	666
Family Medicine/General Practice	106,549	97,779	1,588	259	6,923
Gastroenterology	12,852	11,550	158	313	831
General Surgery	26,314	21,896	258	156	4,004
Geriatric Medicine	4,278	3,367	92	111	708
Hematology & Oncology	12,743	10,261	155	945	1,382
Infectious Disease	7,149	5,007	232	737	1,173
Internal Medicine	109,048	93,381	1,268	1,604	12,795
Internal Medicine/Pediatrics	3,844	3,182	35	25	602
Neonatal-Perinatal Medicine	4,404	3,503	102	195	604
Nephrology	8,362	7,020	119	355	868
Neurological Surgery	5,047	4,505	37	35	470
Neurology	12,916	10,748	207	675	1,286
Obstetrics & Gynecology	40,377	36,978	442	195	2,762
Ophthalmology	17,943	16,598	123	138	1,084
Orthopedic Surgery	19,822	18,625	119	74	1,004
Otolaryngology	9,232	8,636	71	26	499
Pediatrics	55,509	49,001	812	715	4,981
Physical Medicine & Rehabilitation	8,503	7,435	44	47	977
Plastic Surgery	6,822	6,379	40	21	382
Preventive Medicine	6,824	4,060	152	527	2,085
Psychiatry	38,289	32,332	559	830	4,568
Pulmonary Disease & Critical Care Med.	12,526	10,486	249	444	1,347
Radiation Oncology	4,459	4,032	24	32	371
Radiology & Diagnostic Radiology	27,986	24,887	352	171	2,576
Rheumatology	4,917	4,069	94	269	485
Thoracic Surgery	4,682	4,222	40	56	364
Urology	9,826	9,180	68	45	533
Vascular Surgery	2,853	2,582	32	18	221

¹ Other includes physicians whose self-designated major professional activity was "Administration," "Not Classified," or "Other."

Source: AMA Physician Masterfile (December 2010)

Figure 4. Number of People per Active Physician by Specialty, 2010



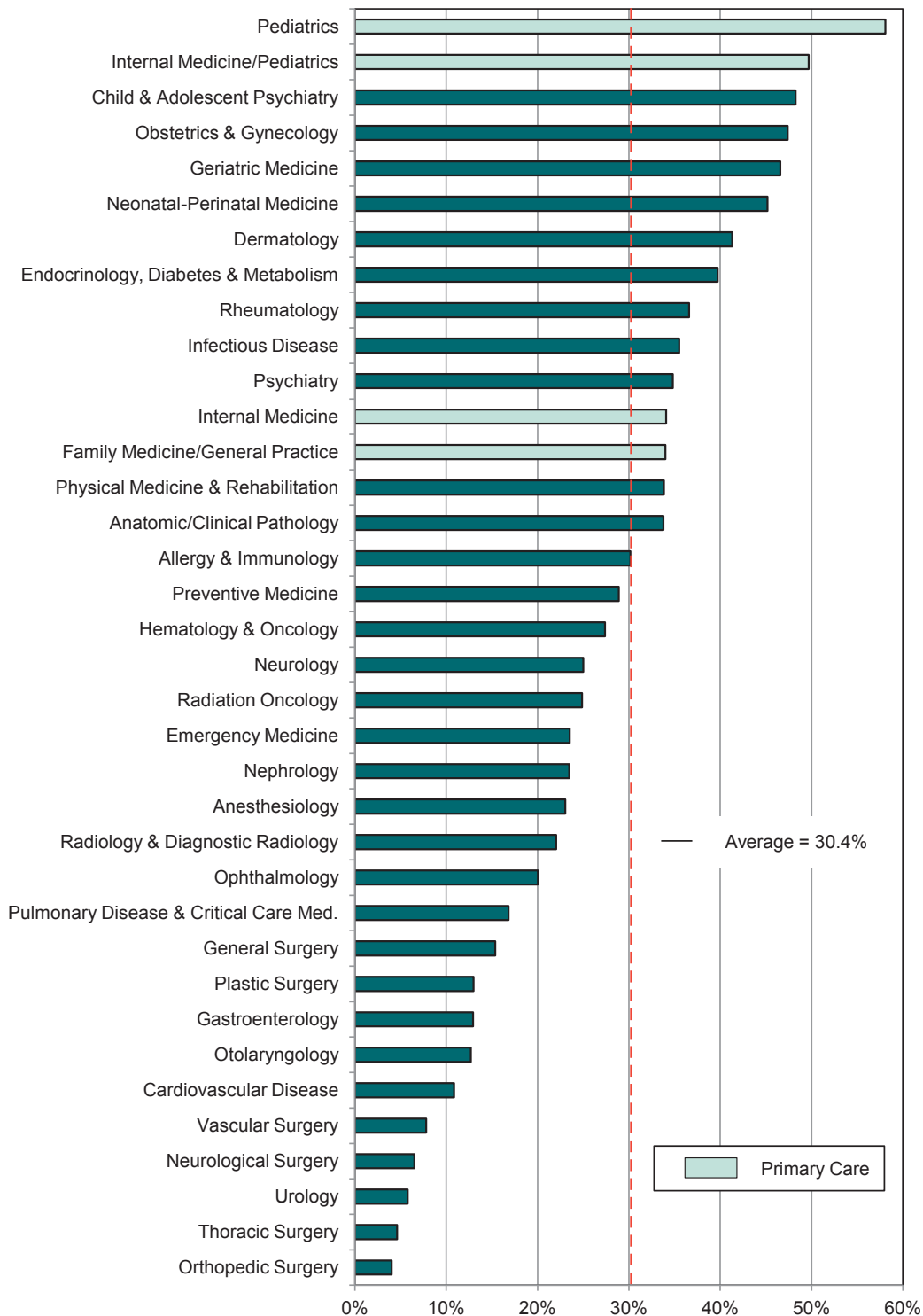
Sources: AMA Physician Masterfile (December 2010) and Annual Estimates of the Population of the United States, Regions, States and Puerto Rico: April 1, 2000 to July 2010 (NST_PEST2010-01). Population Division, U.S. Census Bureau

Table 2. Number of People per Active Physician by Specialty, 2010

Specialty	Total Active Physicians	People Per Physician
Allergy & Immunology	4,325	71,457
Anatomic/Clinical Pathology	14,975	20,638
Anesthesiology	40,123	7,703
Cardiovascular Disease	21,819	14,164
Child & Adolescent Psychiatry	7,706	40,105
Dermatology	10,820	28,563
Emergency Medicine	33,984	9,094
Endocrinology, Diabetes & Metabolism	5,891	52,462
Family Medicine/General Practice	106,549	2,901
Gastroenterology	12,852	24,047
General Surgery	26,314	11,745
Geriatric Medicine	4,278	72,242
Hematology & Oncology	12,743	24,253
Infectious Disease	7,149	43,230
Internal Medicine	109,048	2,834
Internal Medicine/Pediatrics	3,844	80,398
Neonatal-Perinatal Medicine	4,404	70,175
Nephrology	8,362	36,959
Neurological Surgery	5,047	61,235
Neurology	12,916	23,928
Obstetrics & Gynecology	40,377	7,654
Ophthalmology	17,943	17,224
Orthopedic Surgery	19,822	15,591
Otolaryngology	9,232	33,476
Pediatrics	55,509	5,568
Physical Medicine & Rehabilitation	8,503	36,346
Plastic Surgery	6,822	45,302
Preventive Medicine	6,824	45,289
Psychiatry	38,289	8,072
Pulmonary Disease & Critical Care Med.	12,526	24,673
Radiation Oncology	4,459	69,309
Radiology & Diagnostic Radiology	27,986	11,043
Rheumatology	4,917	62,854
Thoracic Surgery	4,682	66,008
Urology	9,826	31,452
Vascular Surgery	2,853	108,325

Sources: AMA Physician Masterfile (December 2010) and Annual Estimates of the Population of the United States, Regions, States and Puerto Rico: April 1, 2000 to July 2010 (NST_PEST2010-01). Population Division, U.S. Census Bureau.

Figure 5. Percentage of Active Physicians Who are Female by Specialty, 2010



Source: AMA Physician Masterfile (December 2010)

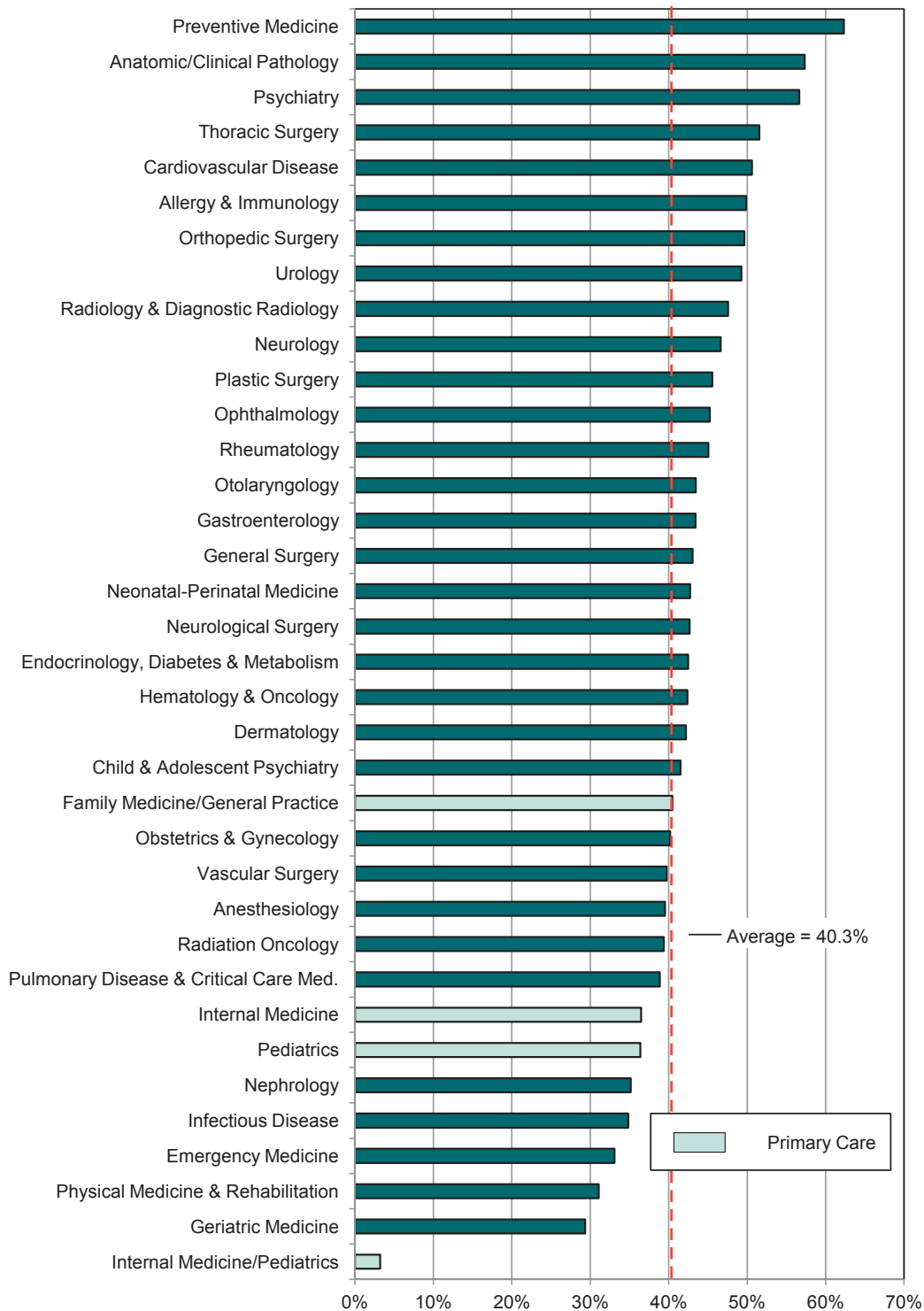
Table 3. Number and Percentage of Active Physicians by Sex and Specialty, 2010

Specialty	Total Active Physicians	Male		Female	
		Number	Percent	Number	Percent
All Specialties	798,398	555,974	69.6	242,424	30.4
Allergy & Immunology	4,323	3,019	69.8	1,304	30.2
Anatomic/Clinical Pathology	14,966	9,910	66.2	5,056	33.8
Anesthesiology	40,079	30,852	77.0	9,227	23.0
Cardiovascular Disease	21,800	19,435	89.2	2,365	10.8
Child & Adolescent Psychiatry	7,701	3,986	51.8	3,715	48.2
Dermatology	10,813	6,346	58.7	4,467	41.3
Emergency Medicine	33,955	25,972	76.5	7,983	23.5
Endocrinology, Diabetes & Metabolism	5,881	3,545	60.3	2,336	39.7
Family Medicine/General Practice	106,391	70,210	66.0	36,181	34.0
Gastroenterology	12,834	11,173	87.1	1,661	12.9
General Surgery	26,296	22,255	84.6	4,041	15.4
Geriatric Medicine	4,272	2,282	53.4	1,990	46.6
Hematology & Oncology	12,724	9,241	72.6	3,483	27.4
Infectious Disease	7,133	4,601	64.5	2,532	35.5
Internal Medicine	108,817	71,747	65.9	37,070	34.1
Internal Medicine/Pediatrics	3,842	1,933	50.3	1,909	49.7
Neonatal-Perinatal Medicine	4,400	2,412	54.8	1,988	45.2
Nephrology	8,349	6,390	76.5	1,959	23.5
Neurological Surgery	5,044	4,716	93.5	328	6.5
Neurology	12,902	9,677	75.0	3,225	25.0
Obstetrics & Gynecology	40,345	21,222	52.6	19,123	47.4
Ophthalmology	17,935	14,342	80.0	3,593	20.0
Orthopedic Surgery	19,820	19,019	96.0	801	4.0
Otolaryngology	9,225	8,055	87.3	1,170	12.7
Pediatrics	55,456	23,256	41.9	32,200	58.1
Physical Medicine & Rehabilitation	8,475	5,608	66.2	2,867	33.8
Plastic Surgery	6,819	5,933	87.0	886	13.0
Preventive Medicine	6,820	4,850	71.1	1,970	28.9
Psychiatry	38,270	24,946	65.2	13,324	34.8
Pulmonary Disease & Critical Care Med.	12,509	10,405	83.2	2,104	16.8
Radiation Oncology	4,456	3,348	75.1	1,108	24.9
Radiology & Diagnostic Radiology	27,970	21,805	78.0	6,165	22.0
Rheumatology	4,904	3,110	63.4	1,794	36.6
Thoracic Surgery	4,681	4,464	95.4	217	4.6
Urology	9,824	9,257	94.2	567	5.8
Vascular Surgery	2,852	2,629	92.2	223	7.8

Note: Figures exclude 1,104 active physicians for whom sex was not indicated.

Source: AMA Physician Masterfile (December 2010)

Figure 6. Percentage of Active Physicians Who are Age 55 or Older by Specialty, 2010



Source: AMA Physician Masterfile (December 2010)

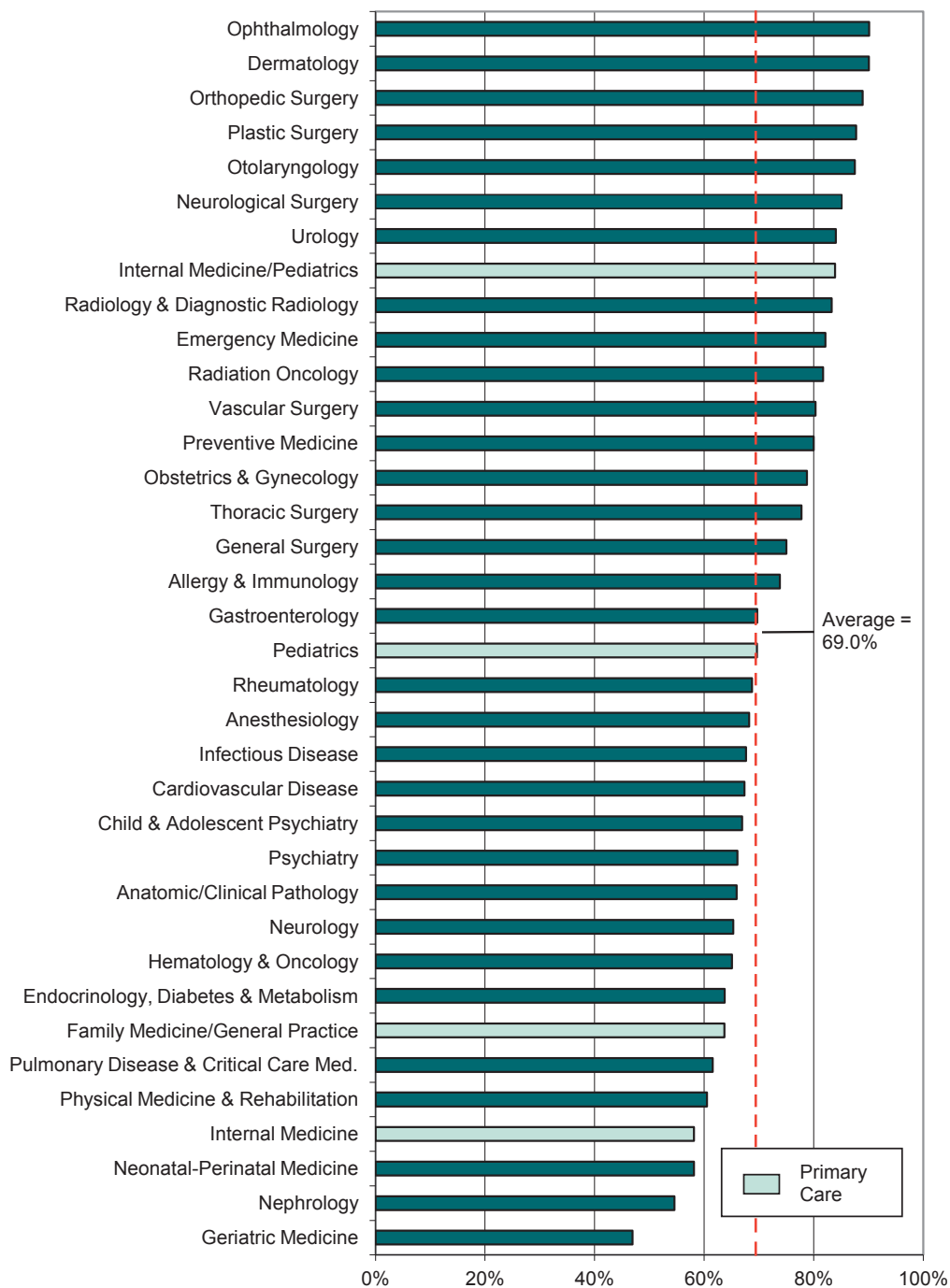
Table 4. Number and Percentage of Active Physicians by Age and Specialty, 2010

Specialty	Total Active Physicians	Under Age 55		Age 55 or Older	
		Number	Percent	Number	Percent
All Specialties	798,228	476,176	59.7	322,052	40.3
Allergy & Immunology	4,325	2,169	50.2	2,156	49.8
Anatomic/Clinical Pathology	14,971	6,386	42.7	8,585	57.3
Anesthesiology	40,112	24,257	60.5	15,855	39.5
Cardiovascular Disease	21,815	10,770	49.4	11,045	50.6
Child & Adolescent Psychiatry	7,703	4,504	58.5	3,199	41.5
Dermatology	10,815	6,251	57.8	4,564	42.2
Emergency Medicine	33,928	22,689	66.9	11,239	33.1
Endocrinology, Diabetes & Metabolism	5,890	3,388	57.5	2,502	42.5
Family Medicine/General Practice	106,307	63,185	59.4	43,122	40.6
Gastroenterology	12,850	7,268	56.6	5,582	43.4
General Surgery	26,303	14,979	56.9	11,324	43.1
Geriatric Medicine	4,277	3,021	70.6	1,256	29.4
Hematology & Oncology	12,740	7,339	57.6	5,401	42.4
Infectious Disease	7,147	4,655	65.1	2,492	34.9
Internal Medicine	108,951	69,169	63.5	39,782	36.5
Internal Medicine/Pediatrics	3,843	3,719	96.8	124	3.2
Neonatal-Perinatal Medicine	4,404	2,522	57.3	1,882	42.7
Nephrology	8,359	5,418	64.8	2,941	35.2
Neurological Surgery	5,046	2,892	57.3	2,154	42.7
Neurology	12,908	6,886	53.3	6,022	46.7
Obstetrics & Gynecology	40,360	24,141	59.8	16,219	40.2
Ophthalmology	17,939	9,820	54.7	8,119	45.3
Orthopedic Surgery	19,814	9,976	50.3	9,838	49.7
Otolaryngology	9,229	5,217	56.5	4,012	43.5
Pediatrics	55,467	35,265	63.6	20,202	36.4
Physical Medicine & Rehabilitation	8,497	5,855	68.9	2,642	31.1
Plastic Surgery	6,819	3,712	54.4	3,107	45.6
Preventive Medicine	6,817	2,564	37.6	4,253	62.4
Psychiatry	38,276	16,585	43.3	21,691	56.7
Pulmonary Disease & Critical Care Med.	12,525	7,655	61.1	4,870	38.9
Radiation Oncology	4,458	2,702	60.6	1,756	39.4
Radiology & Diagnostic Radiology	27,974	14,662	52.4	13,312	47.6
Rheumatology	4,915	2,700	54.9	2,215	45.1
Thoracic Surgery	4,682	2,268	48.4	2,414	51.6
Urology	9,824	4,983	50.7	4,841	49.3
Vascular Surgery	2,852	1,718	60.2	1,134	39.8

Note: Figures exclude 1,274 physicians whose age is unknown.

Source: AMA Physician Masterfile (December 2010)

Figure 7. Percentage of Active Physicians with a U.S. Medical Doctorate (M.D.) by Specialty, 2010



Source: AMA Physician Masterfile (December 2010)

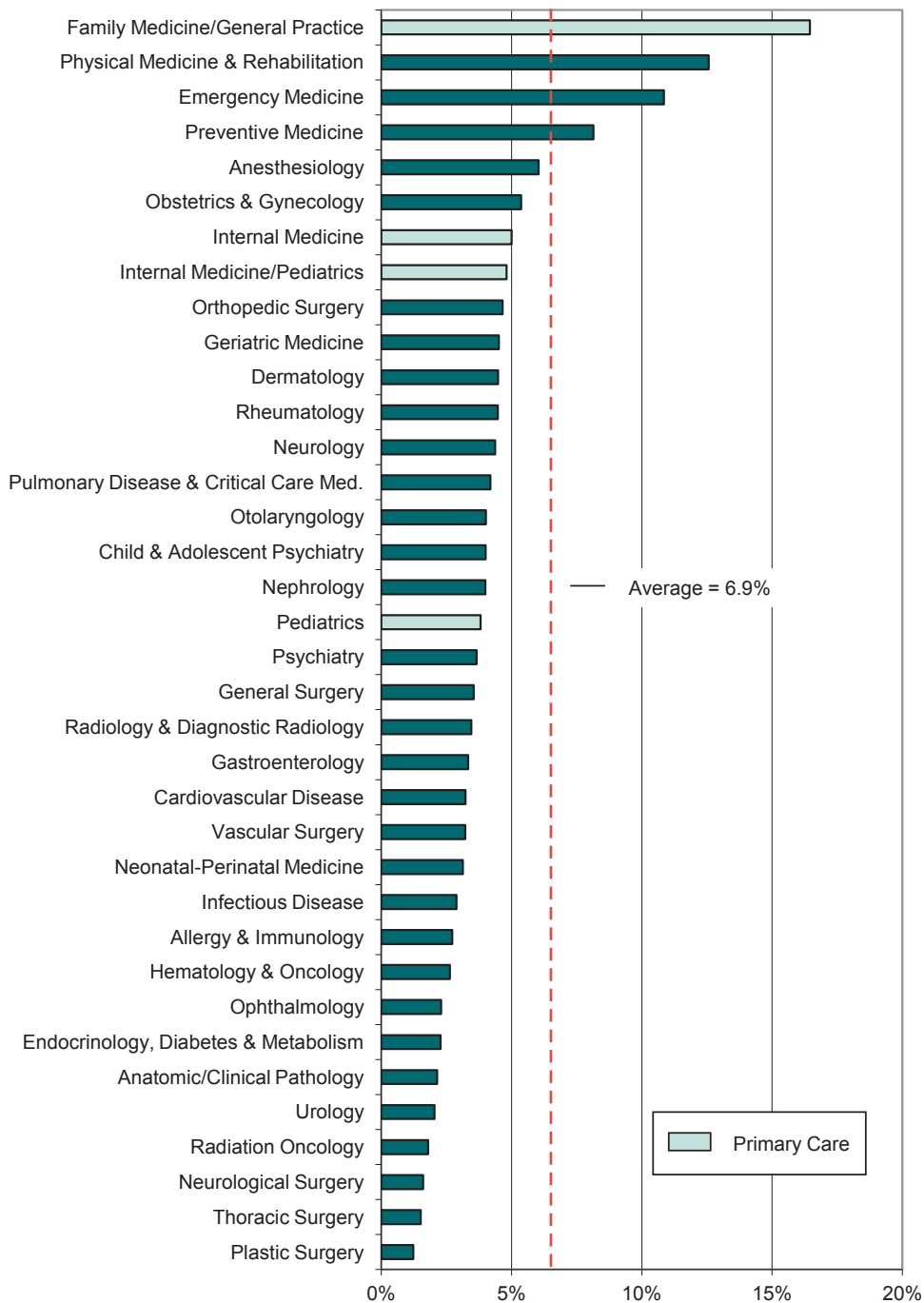
Table 5. Number and Percentage of Active Physicians with a U.S. Medical Doctorate (M.D.) by Specialty, 2010

Specialty	Total Active Physicians	Active US M.D.s	Percent
All Specialties	799,472	552,027	69.0
Allergy & Immunology	4,325	3,193	73.8
Anatomic/Clinical Pathology	14,975	9,875	65.9
Anesthesiology	40,123	27,370	68.2
Cardiovascular Disease	21,819	14,697	67.4
Child & Adolescent Psychiatry	7,706	5,158	66.9
Dermatology	10,820	9,747	90.1
Emergency Medicine	33,984	27,908	82.1
Endocrinology, Diabetes & Metabolism	5,891	3,756	63.8
Family Medicine/General Practice	106,549	67,873	63.7
Gastroenterology	12,852	8,958	69.7
General Surgery	26,314	19,731	75.0
Geriatric Medicine	4,278	2,007	46.9
Hematology & Oncology	12,743	8,294	65.1
Infectious Disease	7,149	4,834	67.6
Internal Medicine	109,048	63,417	58.2
Internal Medicine/Pediatrics	3,844	3,225	83.9
Neonatal-Perinatal Medicine	4,404	2,560	58.1
Nephrology	8,362	4,564	54.6
Neurological Surgery	5,047	4,297	85.1
Neurology	12,916	8,435	65.3
Obstetrics & Gynecology	40,377	31,809	78.8
Ophthalmology	17,943	16,168	90.1
Orthopedic Surgery	19,822	17,627	88.9
Otolaryngology	9,232	8,079	87.5
Pediatrics	55,509	38,665	69.7
Physical Medicine & Rehabilitation	8,503	5,144	60.5
Plastic Surgery	6,822	5,987	87.8
Preventive Medicine	6,824	5,459	80.0
Psychiatry	38,289	25,305	66.1
Pulmonary Disease & Critical Care Med.	12,526	7,713	61.6
Radiation Oncology	4,459	3,644	81.7
Radiology & Diagnostic Radiology	27,986	23,300	83.3
Rheumatology	4,917	3,380	68.7
Thoracic Surgery	4,682	3,641	77.8
Urology	9,826	8,256	84.0
Vascular Surgery	2,853	2,291	80.3

Note: Excludes 30 active physicians whose medical school information is unknown. Graduates of Canadian medical schools are also excluded.

Source: AMA Physician Masterfile (December 2010)

Figure 8. Percentage of Active Physicians with a D.O. Degree by Specialty, 2010



Source: AMA Physician Masterfile (December 2010)

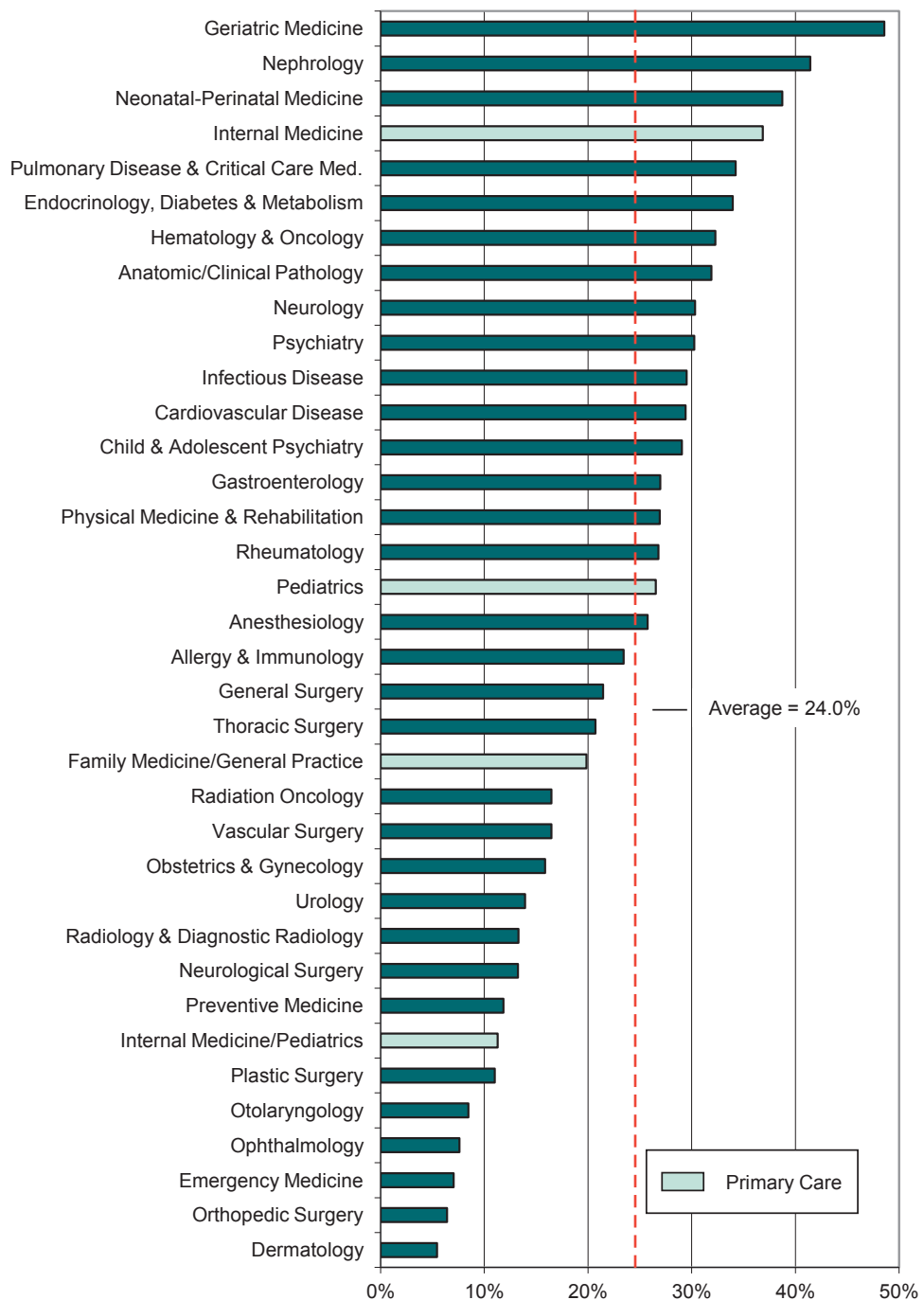
Table 6. Number and Percentage of Active Physicians with a Doctorate of Osteopathy (D.O.) Degree by Speciality, 2010

Specialty	Total Active Physicians	Active D.O.s	Percent
All Specialties	799,472	55,269	6.9
Allergy & Immunology	4,325	118	2.7
Anatomic/Clinical Pathology	14,975	321	2.1
Anesthesiology	40,123	2,424	6.0
Cardiovascular Disease	21,819	706	3.2
Child & Adolescent Psychiatry	7,706	309	4.0
Dermatology	10,820	485	4.5
Emergency Medicine	33,984	3,686	10.8
Endocrinology, Diabetes & Metabolism	5,891	134	2.3
Family Medicine/General Practice	106,549	17,529	16.5
Gastroenterology	12,852	428	3.3
General Surgery	26,314	934	3.5
Geriatric Medicine	4,278	193	4.5
Hematology & Oncology	12,743	335	2.6
Infectious Disease	7,149	206	2.9
Internal Medicine	109,048	5,458	5.0
Internal Medicine/Pediatrics	3,844	185	4.8
Neonatal-Perinatal Medicine	4,404	138	3.1
Nephrology	8,362	334	4.0
Neurological Surgery	5,047	81	1.6
Neurology	12,916	564	4.4
Obstetrics & Gynecology	40,377	2,169	5.4
Ophthalmology	17,943	413	2.3
Orthopedic Surgery	19,822	923	4.7
Otolaryngology	9,232	371	4.0
Pediatrics	55,509	2,117	3.8
Physical Medicine & Rehabilitation	8,503	1,069	12.6
Plastic Surgery	6,822	84	1.2
Preventive Medicine	6,824	556	8.1
Psychiatry	38,289	1,400	3.7
Pulmonary Disease & Critical Care Med.	12,526	524	4.2
Radiation Oncology	4,459	80	1.8
Radiology & Diagnostic Radiology	27,986	967	3.5
Rheumatology	4,917	220	4.5
Thoracic Surgery	4,682	71	1.5
Urology	9,826	201	2.0
Vascular Surgery	2,853	92	3.2

Note: Excludes 30 active physicians whose medical school information is unknown.

Source: AMA Physician Masterfile (December 2010)

Figure 9. Percentage of Active Physicians with an International Medical Degree by Specialty, 2010



Source: AMA Physician Masterfile (December 2010)

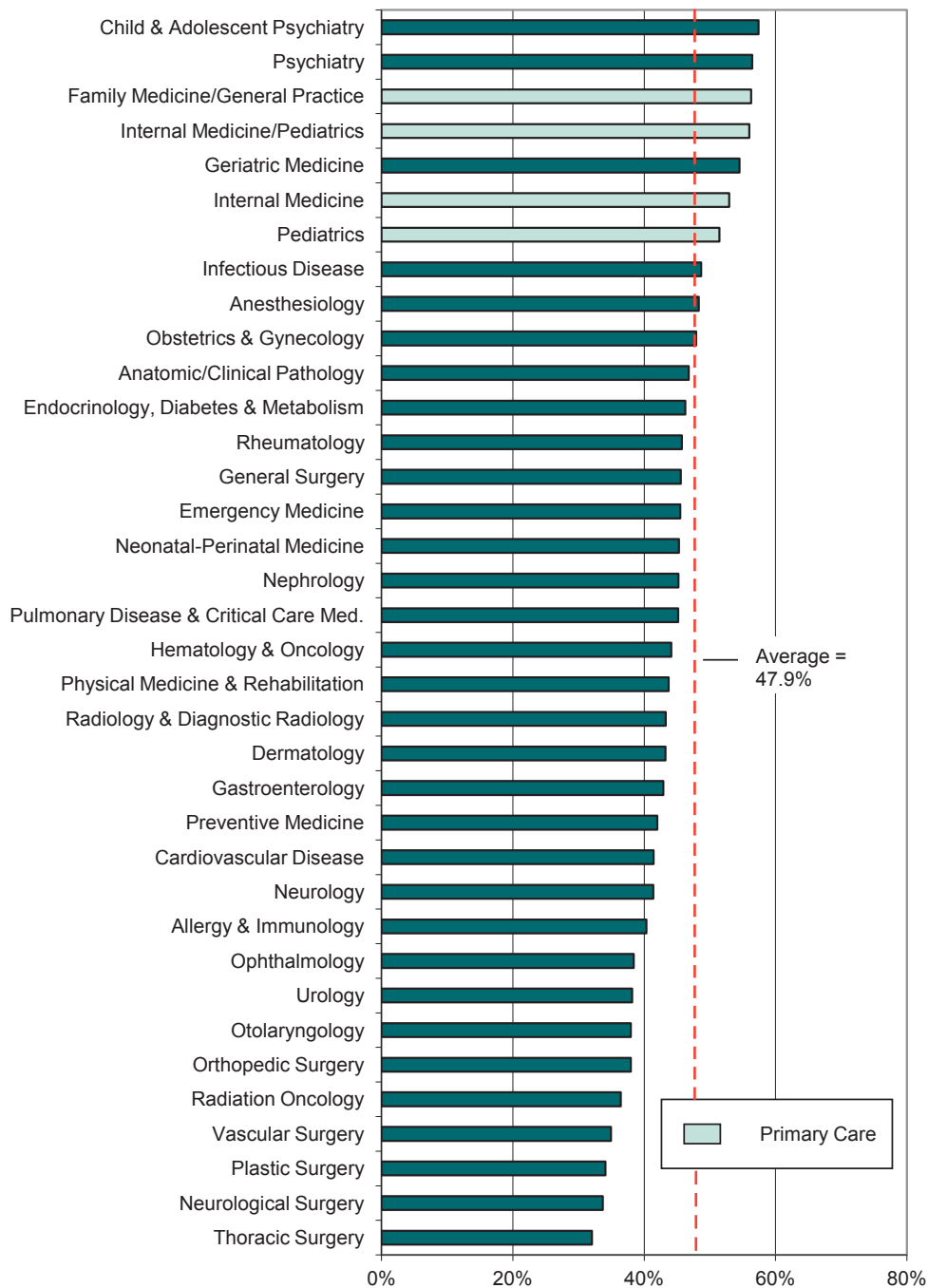
Table 7. Number and Percentage of Active Physicians who Graduated from an International Medical School by Specialty, 2010

Specialty	Total Active		Percent
	Physicians	Active IMGs	
All Specialties	799,472	192,202	24.0
Allergy & Immunology	4,325	1,014	23.4
Anatomic/Clinical Pathology	14,975	4,779	31.9
Anesthesiology	40,123	10,331	25.7
Cardiovascular Disease	21,819	6,416	29.4
Child & Adolescent Psychiatry	7,706	2,239	29.1
Dermatology	10,820	588	5.4
Emergency Medicine	33,984	2,392	7.0
Endocrinology, Diabetes & Metabolism	5,891	2,001	34.0
Family Medicine/General Practice	106,548	21,151	19.9
Gastroenterology	12,852	3,466	27.0
General Surgery	26,313	5,648	21.5
Geriatric Medicine	4,278	2,078	48.6
Hematology & Oncology	12,743	4,114	32.3
Infectious Disease	7,149	2,109	29.5
Internal Medicine	109,048	40,181	36.8
Internal Medicine/Pediatrics	3,844	434	11.3
Neonatal-Perinatal Medicine	4,404	1,706	38.7
Nephrology	8,362	3,464	41.4
Neurological Surgery	5,047	669	13.3
Neurology	12,915	3,916	30.3
Obstetrics & Gynecology	40,376	6,400	15.9
Ophthalmology	17,943	1,362	7.6
Orthopedic Surgery	19,822	1,272	6.4
Otolaryngology	9,232	782	8.5
Pediatrics	55,509	14,728	26.5
Physical Medicine & Rehabilitation	8,503	2,290	26.9
Plastic Surgery	6,822	751	11.0
Preventive Medicine	6,824	809	11.9
Psychiatry	38,289	11,584	30.3
Pulmonary Disease & Critical Care Med.	12,526	4,289	34.2
Radiation Oncology	4,459	735	16.5
Radiology & Diagnostic Radiology	27,986	3,719	13.3
Rheumatology	4,917	1,317	26.8
Thoracic Surgery	4,682	970	20.7
Urology	9,826	1,369	13.9
Vascular Surgery	2,853	470	16.5

Note: Excludes 30 active physicians whose medical school information is unknown.

Source: AMA Physician Masterfile (December 2010)

Figure 10. Percentage of Active Physicians Practicing in the Same State Where They Trained by Specialty, 2010



Source: AMA Physician Masterfile (December 2010)

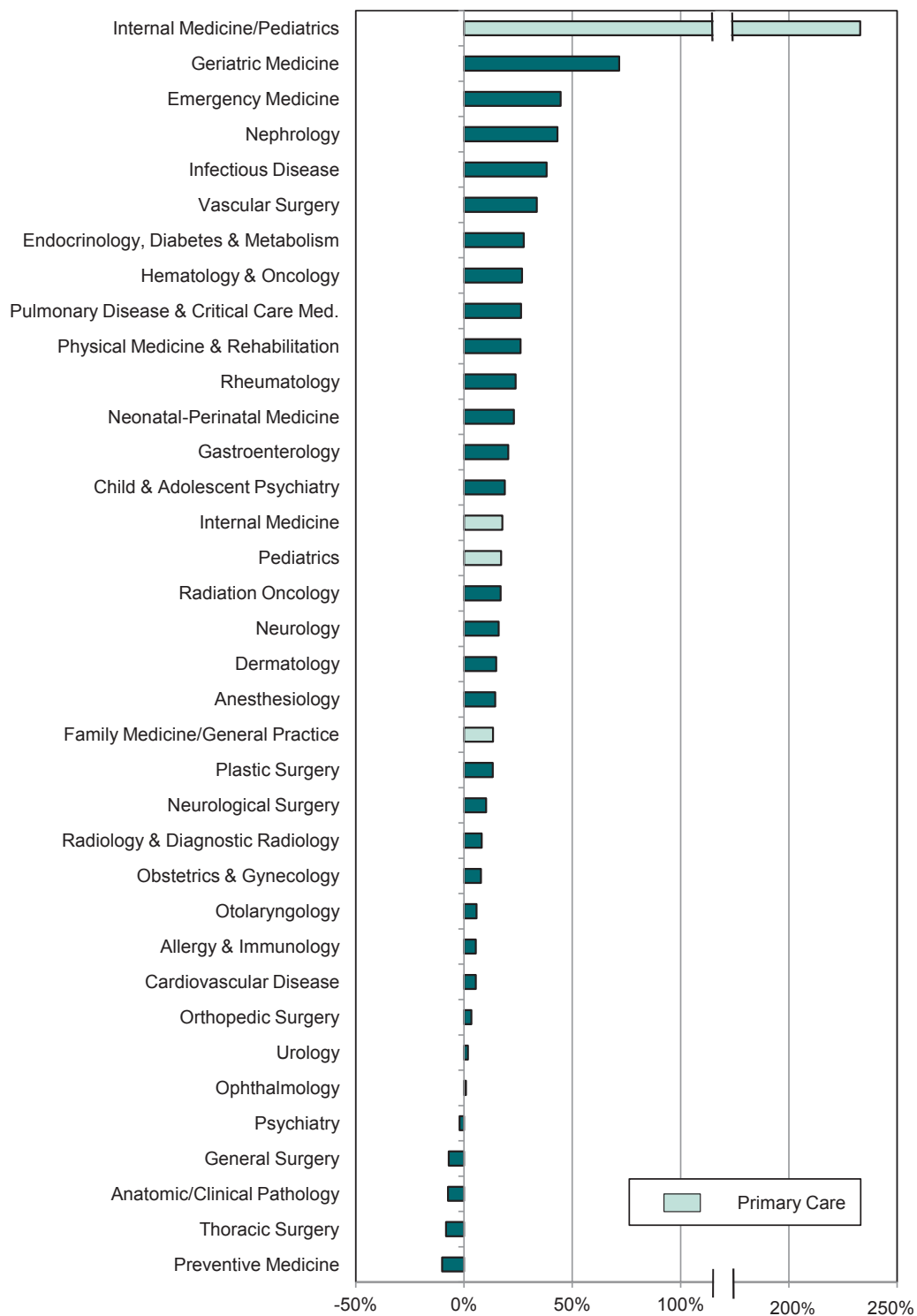
Table 8. Number and Percentage of Active Physicians Practicing in the State Where They Completed Graduate Medical Education (GME) by Specialty, 2010

Specialty	Total Active Physicians	Practicing in Same State as GME	Percent
All Specialties	756,688	362,762	47.9
Allergy & Immunology	4,213	1,700	40.4
Anatomic/Clinical Pathology	14,626	6,842	46.8
Anesthesiology	39,101	18,886	48.3
Cardiovascular Disease	21,210	8,790	41.4
Child & Adolescent Psychiatry	7,657	4,396	57.4
Dermatology	10,576	4,573	43.2
Emergency Medicine	32,486	14,774	45.5
Endocrinology, Diabetes & Metabolism	5,694	2,635	46.3
Family Medicine/General Practice	96,116	54,106	56.3
Gastroenterology	12,574	5,395	42.9
General Surgery	25,612	11,674	45.6
Geriatric Medicine	4,163	2,269	54.5
Hematology & Oncology	12,412	5,476	44.1
Infectious Disease	7,044	3,429	48.7
Internal Medicine	106,510	56,385	52.9
Internal Medicine/Pediatrics	3,838	2,150	56.0
Neonatal-Perinatal Medicine	4,319	1,956	45.3
Nephrology	8,164	3,690	45.2
Neurological Surgery	4,891	1,648	33.7
Neurology	12,629	5,224	41.4
Obstetrics & Gynecology	39,488	18,926	47.9
Ophthalmology	17,501	6,722	38.4
Orthopedic Surgery	19,050	7,229	37.9
Otolaryngology	8,940	3,395	38.0
Pediatrics	54,605	28,095	51.5
Physical Medicine & Rehabilitation	8,408	3,676	43.7
Plastic Surgery	6,681	2,278	34.1
Preventive Medicine	6,408	2,690	42.0
Psychiatry	37,660	21,251	56.4
Pulmonary Disease & Critical Care Med.	12,301	5,557	45.2
Radiation Oncology	4,364	1,589	36.4
Radiology & Diagnostic Radiology	27,239	11,787	43.3
Rheumatology	4,802	2,197	45.8
Thoracic Surgery	4,552	1,458	32.0
Urology	9,608	3,665	38.1
Vascular Surgery	2,796	977	34.9

Note: Total active physicians are those active anywhere in the United States. Figures exclude 42,814 active physicians whose GME program information is unknown.

Source: AMA Physician Masterfile (December 2010)

Figure 11. Percent Change in the Number of Active Physicians by Specialty, 2000-2010



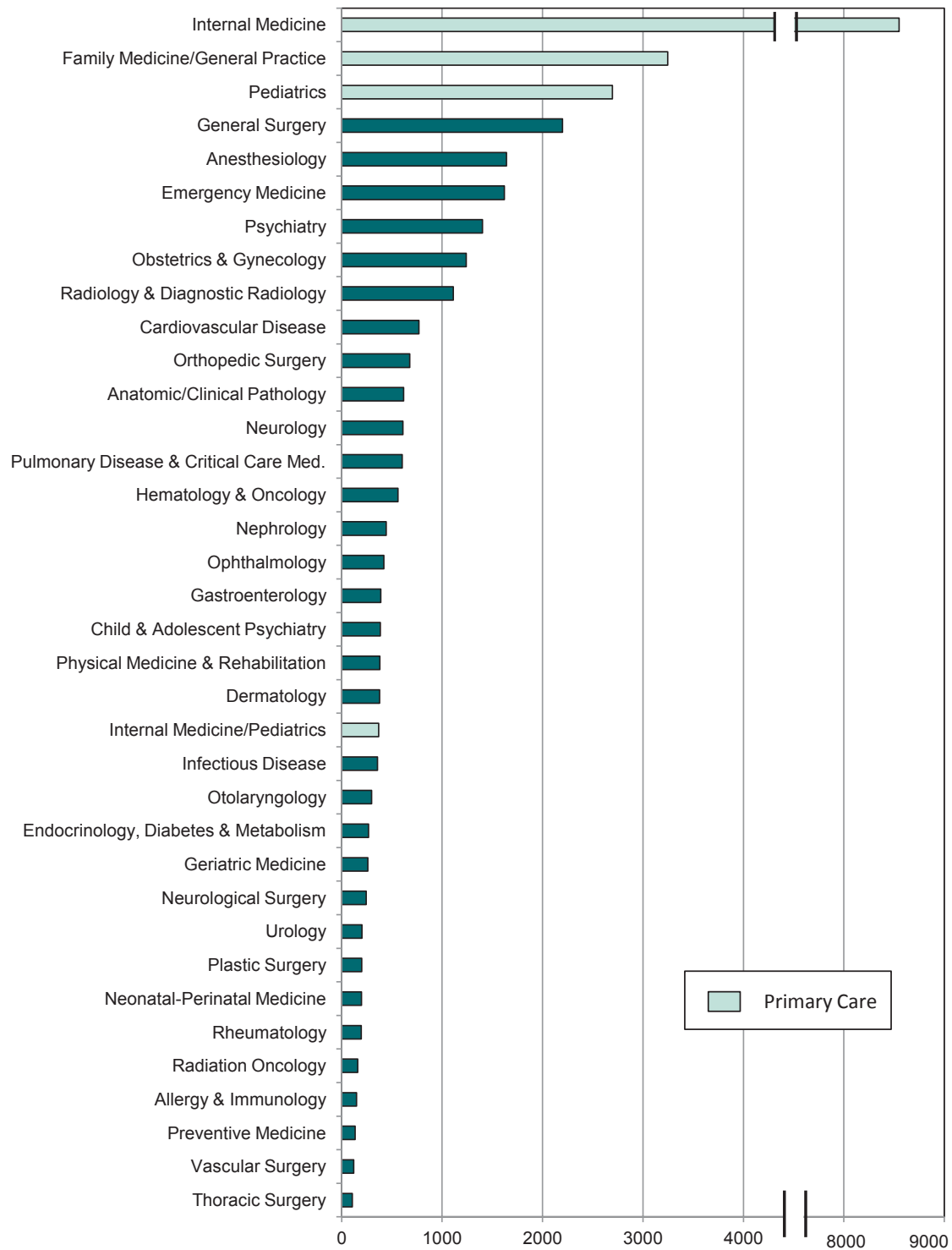
Source: AMA Physician Masterfile (December 2010)

Table 9. Percent Change in the Number of Active Physicians by Specialty, 2000-2010

Specialty	Total Active Physicians		Percent Change
	2000	2010	
All Specialties	718,045	877,233	22.2
Allergy & Immunology	3,770	3,976	5.5
Anatomic/Clinical Pathology	14,271	13,214	-7.4
Anesthesiology	30,969	35,424	14.4
Cardiovascular Disease	19,336	20,386	5.4
Child & Adolescent Psychiatry	5,651	6,718	18.9
Dermatology	8,683	9,974	14.9
Emergency Medicine	19,429	28,092	44.6
Endocrinology, Diabetes & Metabolism	4,165	5,312	27.5
Family Medicine/General Practice	76,570	86,816	13.4
Gastroenterology	9,856	11,872	20.5
General Surgery	23,725	22,061	-7.0
Geriatric Medicine	2,112	3,624	71.6
Hematology & Oncology	9,009	11,422	26.8
Infectious Disease	4,466	6,172	38.2
Internal Medicine	80,393	94,641	17.7
Internal Medicine/Pediatrics	934	3,109	232.9
Neonatal-Perinatal Medicine	3,119	3,837	23.0
Nephrology	5,196	7,435	43.1
Neurological Surgery	4,159	4,583	10.2
Neurology	9,851	11,430	16.0
Obstetrics & Gynecology	33,854	36,507	7.8
Ophthalmology	16,606	16,763	0.9
Orthopedic Surgery	17,676	18,281	3.4
Otolaryngology	8,017	8,477	5.7
Pediatrics	43,288	50,688	17.1
Physical Medicine & Rehabilitation	5,565	7,016	26.1
Plastic Surgery	5,700	6,457	13.3
Preventive Medicine	6,713	6,036	-10.1
Psychiatry	35,075	34,361	-2.0
Pulmonary Disease & Critical Care Med.	8,765	11,072	26.3
Radiation Oncology	3,498	4,088	16.9
Radiology & Diagnostic Radiology	23,432	25,357	8.2
Rheumatology	3,547	4,394	23.9
Thoracic Surgery	4,722	4,329	-8.3
Urology	9,132	9,298	1.8
Vascular Surgery	1,942	2,594	33.6

Sources: *Physician Characteristics and Distribution in the US, 2002-2003 Edition*
 and *Physician Characteristics and Distribution in the US, 2012 Edition*

Figure 12. Number of First-Year ACGME Residents/Fellows by Specialty, 2010



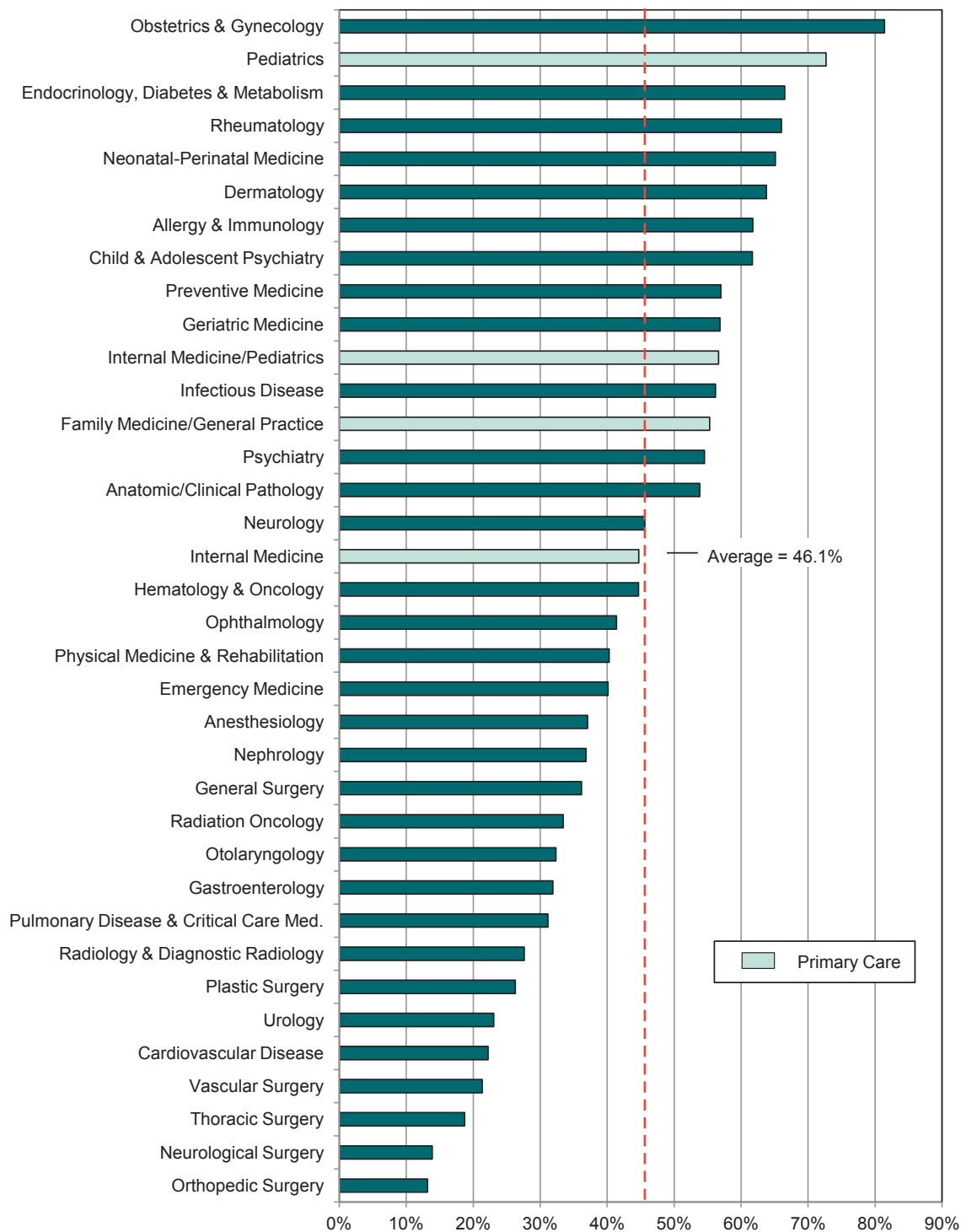
Source: 2010 AAMC/AMA National GME Census

Table 10. Number of First-Year ACGME Residents/Fellows by Specialty, August 2010

Specialty	PY1 Residents and Fellows
Allergy & Immunology	134
Anatomic/Clinical Pathology	617
Anesthesiology	1,621
Cardiovascular Disease	770
Child & Adolescent Psychiatry	389
Dermatology	377
Emergency Medicine	1,641
Endocrinology, Diabetes & Metabolism	260
Family Medicine/General Practice	3,246
Gastroenterology	444
General Surgery	2,199
Geriatric Medicine	299
Hematology & Oncology	560
Infectious Disease	357
Internal Medicine	8,551
Internal Medicine/Pediatrics	368
Neonatal-Perinatal Medicine	202
Nephrology	420
Neurological Surgery	195
Neurology	611
Obstetrics & Gynecology	1,241
Ophthalmology	386
Orthopedic Surgery	679
Otolaryngology	269
Pediatrics	2,696
Physical Medicine & Rehabilitation	380
Plastic Surgery	201
Preventive Medicine	121
Psychiatry	1,403
Pulmonary Disease & Critical Care Med.	604
Radiation Oncology	160
Radiology & Diagnostic Radiology	1,111
Rheumatology	197
Thoracic Surgery	106
Urology	245
Vascular Surgery	148

Source: 2010 AAMC/AMA National GME Census

Figure 13. Percentage of ACGME Residents/Fellows Who Are Female by Specialty, August 2010



Source: 2010 AAMC/AMA National GME Census

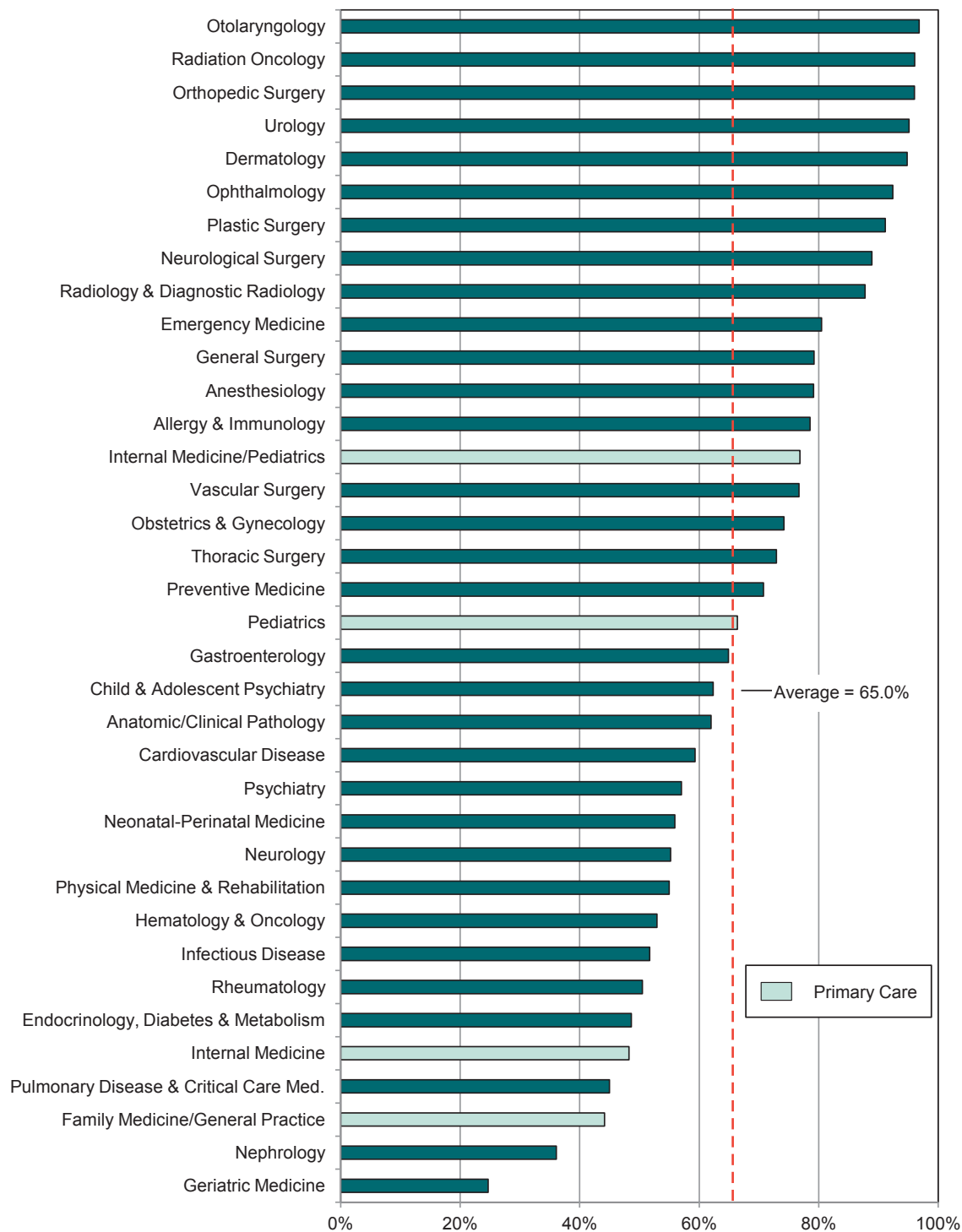
Table 11. Number and Percentage of ACGME Residents/Fellows by Sex and Specialty, 2010

Specialty	Total Residents and Fellows	Male		Female	
		Number	Percent	Number	Percent
All Specialties	111,065	59,871	53.9	51,194	46.1
Allergy & Immunology	298	114	38.3	184	61.7
Anatomic/Clinical Pathology	2,352	1,086	46.2	1,266	53.8
Anesthesiology	5,443	3,424	62.9	2,019	37.1
Cardiovascular Disease	2,431	1,891	77.8	540	22.2
Child & Adolescent Psychiatry	838	321	38.3	517	61.7
Dermatology	1,154	418	36.2	736	63.8
Emergency Medicine	5,069	3,034	59.9	2,035	40.1
Endocrinology, Diabetes & Metabolism	594	199	33.5	395	66.5
Family Medicine/General Practice	9,588	4,286	44.7	5,302	55.3
Gastroenterology	1,355	923	68.1	432	31.9
General Surgery	7,559	4,826	63.8	2,733	36.2
Geriatric Medicine	322	139	43.2	183	56.8
Hematology & Oncology	1,611	891	55.3	720	44.7
Infectious Disease	792	347	43.8	445	56.2
Internal Medicine	22,099	12,217	55.3	9,882	44.7
Internal Medicine/Pediatrics	1,413	613	43.4	800	56.6
Neonatal-Perinatal Medicine	625	218	34.9	407	65.1
Nephrology	920	581	63.2	339	36.8
Neurological Surgery	1,131	974	86.1	157	13.9
Neurology	1,902	1,034	54.4	868	45.6
Obstetrics & Gynecology	4,862	904	18.6	3,958	81.4
Ophthalmology	1,273	746	58.6	527	41.4
Orthopedic Surgery	3,392	2,945	86.8	447	13.2
Otolaryngology	1,404	950	67.7	454	32.3
Pediatrics	8,106	2,215	27.3	5,891	72.7
Physical Medicine & Rehabilitation	1,223	730	59.7	493	40.3
Plastic Surgery	696	513	73.7	183	26.3
Preventive Medicine	244	105	43.0	139	57.0
Psychiatry	4,947	2,249	45.5	2,698	54.5
Pulmonary Disease & Critical Care Med.	1,611	1,109	68.8	502	31.2
Radiation Oncology	604	402	66.6	202	33.4
Radiology & Diagnostic Radiology	4,531	3,279	72.4	1,252	27.6
Rheumatology	421	143	34.0	278	66.0
Thoracic Surgery	251	204	81.3	47	18.7
Urology	1,079	830	76.9	249	23.1
Vascular Surgery	309	243	78.6	66	21.4

Note: Excludes 373 residents/fellows whose sex was not indicated.

Source: 2010 AAMC/AMA National GME Census

Figure 14. Percentage of ACGME Residents/Fellows with a U.S. M.D. by Specialty, 2010



Source: 2010 AAMC/AMA National GME Census

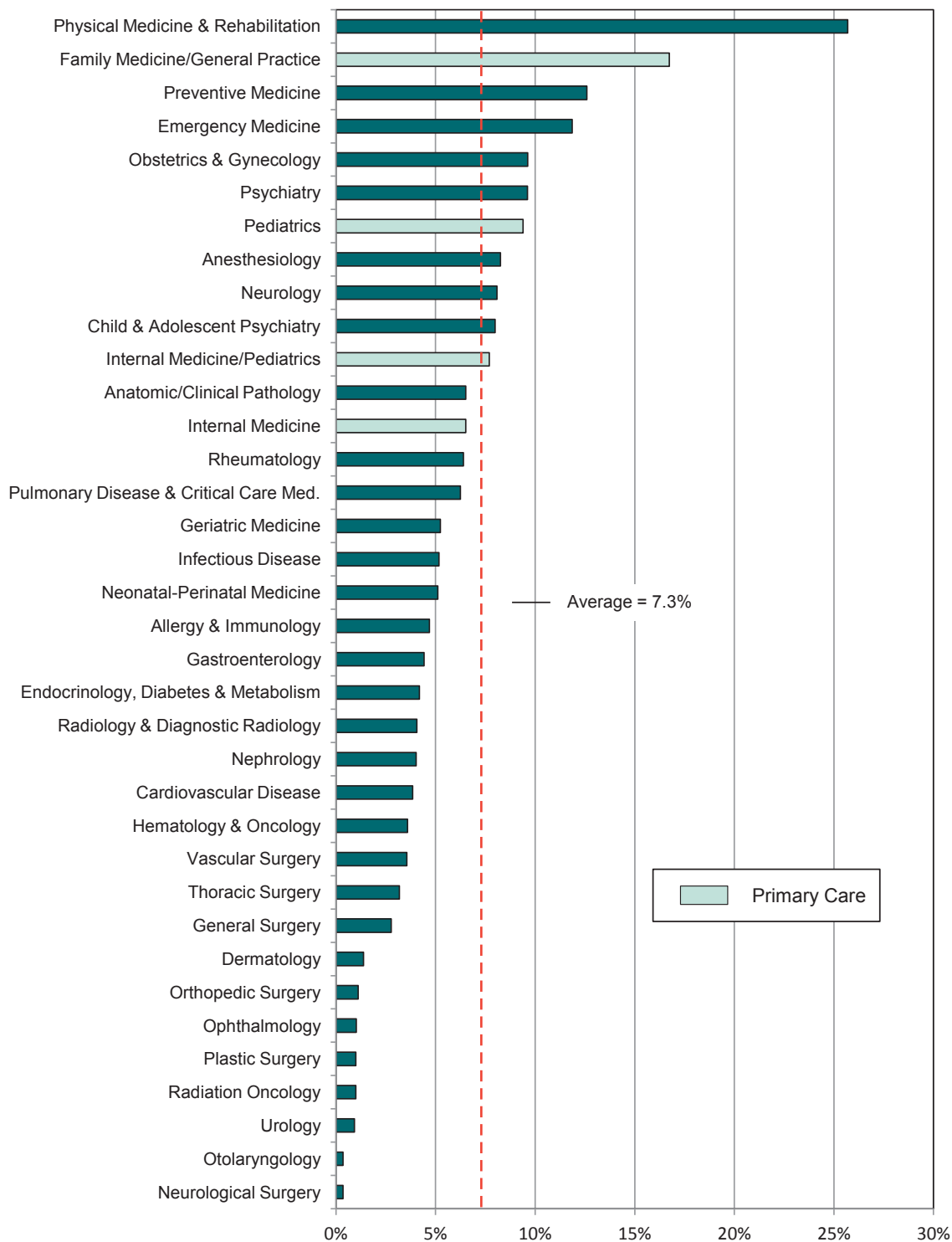
Table 12. Number and Percentage of ACGME Residents/Fellows with a U.S. M.D. by Specialty, 2010

Specialty	Total Residents and Fellows	US M.D. Residents and Fellows	Percent
All Specialties	111,436	72,473	65.0
Allergy & Immunology	298	234	78.5
Anatomic/Clinical Pathology	2,377	1,473	62.0
Anesthesiology	5,461	4,321	79.1
Cardiovascular Disease	2,444	1,449	59.3
Child & Adolescent Psychiatry	839	523	62.3
Dermatology	1,155	1,095	94.8
Emergency Medicine	5,083	4,090	80.5
Endocrinology, Diabetes & Metabolism	596	290	48.7
Family Medicine/General Practice	9,593	4,235	44.1
Gastroenterology	1,356	880	64.9
General Surgery	7,597	6,017	79.2
Geriatric Medicine	324	80	24.7
Hematology & Oncology	1,612	853	52.9
Infectious Disease	793	410	51.7
Internal Medicine	22,164	10,695	48.3
Internal Medicine/Pediatrics	1,416	1,088	76.8
Neonatal-Perinatal Medicine	626	350	55.9
Nephrology	920	332	36.1
Neurological Surgery	1,135	1,009	88.9
Neurology	1,929	1,065	55.2
Obstetrics & Gynecology	4,869	3,612	74.2
Ophthalmology	1,273	1,176	92.4
Orthopedic Surgery	3,402	3,266	96.0
Otolaryngology	1,407	1,362	96.8
Pediatrics	8,120	5,389	66.4
Physical Medicine & Rehabilitation	1,226	674	55.0
Plastic Surgery	698	636	91.1
Preventive Medicine	246	174	70.7
Psychiatry	4,990	2,846	57.0
Pulmonary Disease & Critical Care Med.	1,616	727	45.0
Radiation Oncology	605	581	96.0
Radiology & Diagnostic Radiology	4,552	3,994	87.7
Rheumatology	422	213	50.5
Thoracic Surgery	251	183	72.9
Urology	1,080	1,027	95.1
Vascular Surgery	309	237	76.7

Note: Figures exclude two residents whose medical school is unknown.

Source: 2010 AAMC/AMA National GME Census

Figure 15. Percentage of ACGME Residents/Fellows with a D.O. by Specialty, 2010



Source: 2010 AAMC/AMA National GME Census

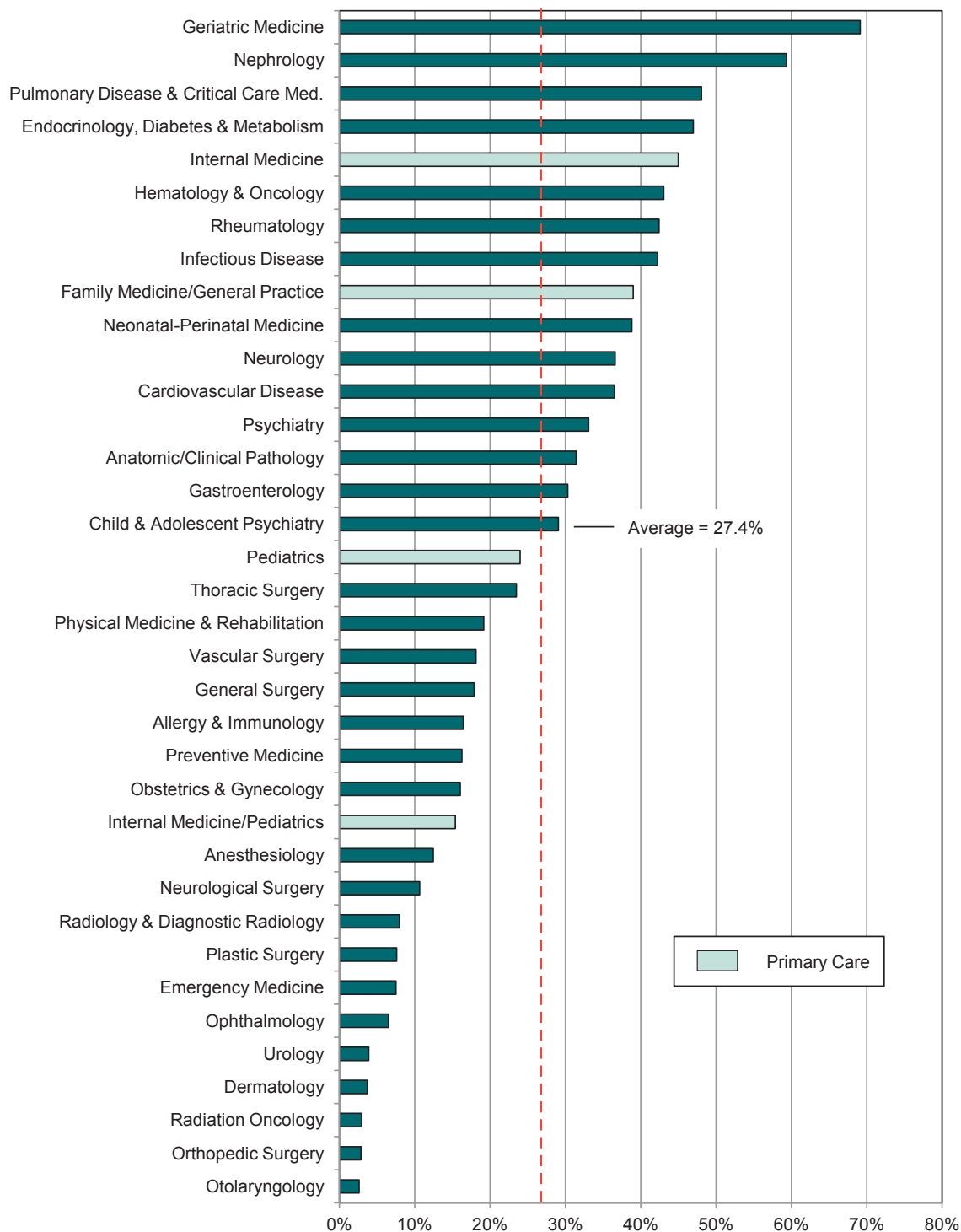
Table 13. Number and Percentage of ACGME Residents/Fellows with a D.O. by Specialty, 2010

Specialty	Total Residents and Fellows	D.O. Residents and Fellows	Percent
All Specialties	111,436	8,172	7.3
Allergy & Immunology	298	14	4.7
Anatomic/Clinical Pathology	2,377	155	6.5
Anesthesiology	5,461	451	8.3
Cardiovascular Disease	2,444	94	3.8
Child & Adolescent Psychiatry	839	67	8.0
Dermatology	1,155	16	1.4
Emergency Medicine	5,083	603	11.9
Endocrinology, Diabetes & Metabolism	596	25	4.2
Family Medicine/General Practice	9,593	1,606	16.7
Gastroenterology	1,356	60	4.4
General Surgery	7,597	211	2.8
Geriatric Medicine	324	17	5.2
Hematology & Oncology	1,612	58	3.6
Infectious Disease	793	41	5.2
Internal Medicine	22,164	1,444	6.5
Internal Medicine/Pediatrics	1,416	109	7.7
Neonatal-Perinatal Medicine	626	32	5.1
Nephrology	920	37	4.0
Neurological Surgery	1,135	4	0.4
Neurology	1,929	156	8.1
Obstetrics & Gynecology	4,869	469	9.6
Ophthalmology	1,273	13	1.0
Orthopedic Surgery	3,402	38	1.1
Otolaryngology	1,407	5	0.4
Pediatrics	8,120	763	9.4
Physical Medicine & Rehabilitation	1,226	315	25.7
Plastic Surgery	698	7	1.0
Preventive Medicine	246	31	12.6
Psychiatry	4,990	480	9.6
Pulmonary Disease & Critical Care Med.	1,616	101	6.3
Radiation Oncology	605	6	1.0
Radiology & Diagnostic Radiology	4,552	185	4.1
Rheumatology	422	27	6.4
Thoracic Surgery	251	8	3.2
Urology	1,080	10	0.9
Vascular Surgery	309	11	3.6

Note: Figures exclude two residents whose medical school is unknown.

Source: 2010 AAMC/AMA National GME Census

Figure 16. Percentage of ACGME Residents/Fellows with an International Medical Degree by Specialty, 2010



Source: 2010 AAMC/AMA National GME Census

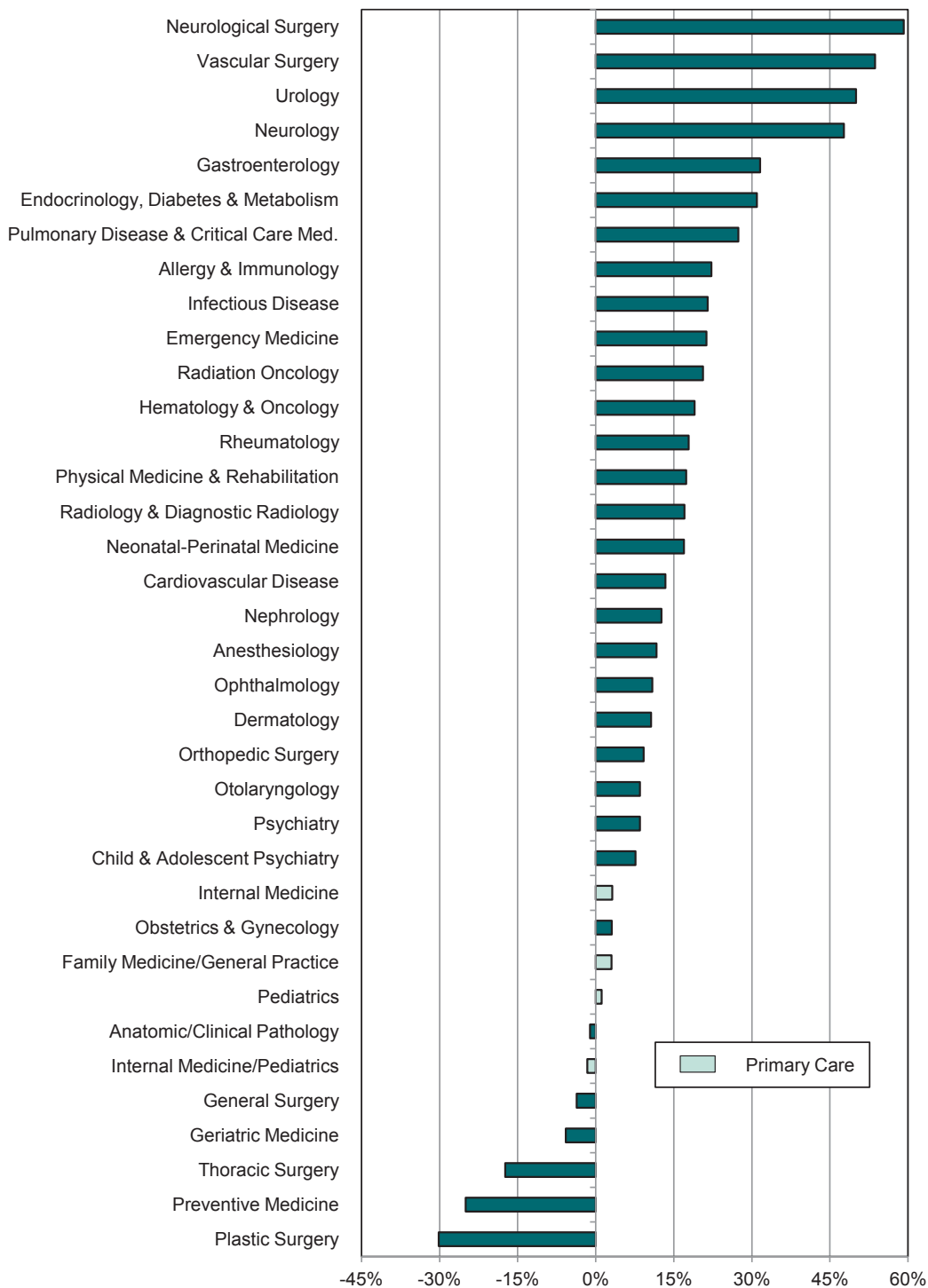
Table 14. Number and Percentage of ACGME Residents/Fellows who Graduated from an International Medical School by Specialty, 2010

Specialty	Total Residents and Fellows	IMG Residents and Fellows	Percent
All Specialties	111,436	30,487	27.4
Allergy & Immunology	298	49	16.4
Anatomic/Clinical Pathology	2,377	747	31.4
Anesthesiology	5,461	680	12.5
Cardiovascular Disease	2,444	892	36.5
Child & Adolescent Psychiatry	839	244	29.1
Dermatology	1,155	43	3.7
Emergency Medicine	5,083	382	7.5
Endocrinology, Diabetes & Metabolism	596	280	47.0
Family Medicine/General Practice	9,593	3,742	39.0
Gastroenterology	1,356	411	30.3
General Surgery	7,597	1,358	17.9
Geriatric Medicine	324	224	69.1
Hematology & Oncology	1,612	694	43.1
Infectious Disease	793	335	42.2
Internal Medicine	22,164	9,973	45.0
Internal Medicine/Pediatrics	1,416	218	15.4
Neonatal-Perinatal Medicine	626	243	38.8
Nephrology	920	546	59.3
Neurological Surgery	1,135	121	10.7
Neurology	1,929	706	36.6
Obstetrics & Gynecology	4,869	782	16.1
Ophthalmology	1,273	83	6.5
Orthopedic Surgery	3,402	98	2.9
Otolaryngology	1,407	37	2.6
Pediatrics	8,120	1,949	24.0
Physical Medicine & Rehabilitation	1,226	235	19.2
Plastic Surgery	698	53	7.6
Preventive Medicine	246	40	16.3
Psychiatry	4,990	1,651	33.1
Pulmonary Disease & Critical Care Med.	1,616	777	48.1
Radiation Oncology	605	18	3.0
Radiology & Diagnostic Radiology	4,552	363	8.0
Rheumatology	422	179	42.4
Thoracic Surgery	251	59	23.5
Urology	1,080	42	3.9
Vascular Surgery	309	56	18.1

Note: Figures exclude two residents whose medical school is unknown. Graduates of Canadian medical schools and graduates of the Fifth Pathway program are also excluded.

Source: 2010 AAMC/AMA National GME Census

Figure 17. Percent Change in the Number of First-Year ACGME Residents/Fellow by Specialty, 2005-2010



Sources: 2010 AAMC/AMA National GME Census as reported in JAMA 2006;296(9)1154-1169 and JAMA 2011;306(9)1015-1030

Table 15. Percent Change in the Number of First-Year ACGME Residents/Fellows by Specialty, 2005-2010

Specialty	Total Residents and Fellows		Percent Change
	2005	2010	
All Specialties	35,728	39,492	10.5
Allergy & Immunology	108	132	22.2
Anatomic/Clinical Pathology	636	629	-1.1
Anesthesiology	1,333	1,489	11.7
Cardiovascular Disease	687	779	13.4
Child & Adolescent Psychiatry	366	394	7.7
Dermatology	329	364	10.6
Emergency Medicine	1,376	1,669	21.3
Endocrinology, Diabetes & Metabolism	197	258	31.0
Family Medicine/General Practice	3,173	3,270	3.1
Gastroenterology	345	454	31.6
General Surgery	2,465	2,375	-3.7
Geriatric Medicine	296	279	-5.7
Hematology & Oncology	468	557	19.0
Infectious Disease	288	350	21.5
Internal Medicine	8,555	8,825	3.2
Internal Medicine/Pediatrics	376	370	-1.6
Neonatal-Perinatal Medicine	177	207	16.9
Nephrology	372	419	12.6
Neurological Surgery	120	191	59.2
Neurology	390	576	47.7
Obstetrics & Gynecology	1,234	1,272	3.1
Ophthalmology	349	387	10.9
Orthopedic Surgery	629	687	9.2
Otolaryngology	259	281	8.5
Pediatrics	2,697	2,728	1.1
Physical Medicine & Rehabilitation	311	365	17.4
Plastic Surgery	179	125	-30.2
Preventive Medicine	156	117	-25.0
Psychiatry	1,286	1,395	8.5
Pulmonary Disease & Critical Care Med.	474	604	27.4
Radiation Oncology	131	158	20.6
Radiology & Diagnostic Radiology	968	1,133	17.0
Rheumatology	168	198	17.9
Thoracic Surgery	115	95	-17.4
Urology	156	234	50.0
Vascular Surgery	95	146	53.7

Note: Figures include first year residents and first year fellows. See page 4 for more details on the specialties and subspecialties shown here.

Sources: 2010 AAMC/AMA National GME Census as reported in JAMA 2006;296(9)1154-1169 and JAMA 2011;306(9)1015-1030

Table 16. Averages for Key Physician Workforce Measures, 2007 and 2010

	Average 2007	Average 2010
Physician Supply		
Percentage of Active Physicians Who are Female by Specialty	28.3%	30.4%
Percentage of Active Physicians Who are Age 55 or Older by Specialty	37.6%	40.3%
Percentage of Active Physicians with a U.S. Medical Doctorate (M.D.) by Specialty	69.5%	69.0%
Percentage of Active Physicians with a D.O. Degree by Specialty	6.5%	6.9%
Percentage of Active Physicians with an International Medical Degree by Specialty	24.0%	24.0%
Percentage of Active Physicians Practicing in the Same State Where They Trained by Specialty	47.4%	47.9%
Graduate Medical Education		
Percentage of ACGME Residents/Fellows Who Are Female by Specialty	44.6%	46.1%
Percentage of ACGME Residents/Fellows with a U.S. M.D. by Specialty	65.9%	65.0%
Percentage of ACGME Residents/Fellows with a D.O. by Specialty	6.4%	7.3%
Percentage of ACGME Residents/Fellows with an International Medical Degree by Specialty	27.4%	27.4%



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