



Online article and related content
current as of August 20, 2008.

Graduate Medical Education, 2006-2007

Sarah E. Brotherton; Sylvia I. Etzel

JAMA. 2007;298(9):1081-1096 (doi:10.1001/jama.298.9.1081)

<http://jama.ama-assn.org/cgi/content/full/298/9/1081>

Correction

[Contact me if this article is corrected.](#)

Citations

[This article has been cited 5 times.](#)
[Contact me when this article is cited.](#)

Topic collections

Medical Practice; Medical Education
[Contact me when new articles are published in these topic areas.](#)

Subscribe

<http://jama.com/subscribe>

Permissions

permissions@ama-assn.org
<http://pubs.ama-assn.org/misc/permissions.dtl>

Email Alerts

<http://jamaarchives.com/alerts>

Reprints/E-prints

reprints@ama-assn.org

Graduate Medical Education, 2006-2007

Sarah E. Brotherton, PhD

Sylvia I. Etzel

THE AMERICAN MEDICAL ASSOCIATION and the Association of American Medical Colleges (AAMC) jointly sponsor and administer the National GME Census through GME Track, an Internet-based AAMC product, as well as maintain a database of training programs accredited by the Accreditation Council for Graduate Medical Education (ACGME) and of the residents and fellows in them. This database is updated annually by adding to it the approximately 19 000 new residents who match into programs through the National Resident Matching Program (NRMP) as well as from information collected through the AAMC's follow-up report of medical schools. From May 2006 until December 2006 we surveyed directors of programs accredited by the ACGME about educational characteristics of their train-

ing programs. Information about these programs is uploaded to FREIDA Online, an Internet-based public information source on GME programs that is available to medical students and residents. In July 2006 we surveyed program directors about their active, transferred, and graduated residents and fellows for academic year 2006-2007. We provided program directors with lists of residents and fellows from the database and asked the directors to confirm or modify the training status of trainees who were present in their programs the prior year; to add new physicians to their program whom we did not already have in our database; and to confirm, edit, or add demographic information.

We surveyed 8502 active programs, of which 7616 (89.6%) completed the program survey and 7075 (83.2%) confirmed the status of all their active physicians-in-training, accounting for 97 705 (93.2%) of active trainees. An additional 132 programs (1.6%) con-

firmed some but not all of their trainees (accounting for 5050 trainees), 200 confirmed that they did not have any trainees (2.4%), 302 programs (3.6%) confirmed the status of nonactive trainees (graduates and transfers), but did not have any currently active trainees, and 793 programs (9.3%) did not confirm the status of any physician training in the program (including 627 programs that apparently did not have any active trainees). A total of 97.0% of all physicians in our database had their status confirmed (eg, active, graduated, withdrawn). Physicians whose status was not confirmed were "advanced" into the next year of training (n=2124 [2.0% of active residents]) or "graduated" based on expected graduation date (n=1137 [3.2% of graduated residents or fellows]).

Author Affiliations: Division of Undergraduate and Graduate Medical Education, American Medical Association, Chicago, Illinois.

Financial Disclosures: None reported.

Corresponding Author: sarah.brotherton@ama-assn.org

Appendix II, Table 1. ACGME-Accredited and Combined Specialty GME Programs and Resident Physicians According to Medical School of Graduation and Specialty and Subspecialty, 2001-2006

	No. (%)					
	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007
No. of programs	8025	8064	8192	8246	8403	8502
No. of residents						
Total	96 410	98 258	99 964	101 291	103 106	104 879
GY1	23 034	23 443	23 922	23 789	24 732	24 772
GY1 residents with no prior GME	21 254	21 864	22 444	22 788	23 325	23 587
Medical school of graduation						
USMDs	65 661 (68.1)	66 646 (67.8)	67 131 (67.2)	68 456 (67.6)	68 578 (66.5)	69 721 (66.5)
IMGs	25 403 (26.3)	25 783 (26.2)	26 577 (26.6)	26 720 (26.4)	27 636 (26.8)	28 176 (26.9)
DOs	4658 (4.8)	5327 (5.4)	5838 (5.8)	5675 (5.6)	6474 (6.3)	6629 (6.3)
Canadian	422 (0.4)	418 (0.4)	393 (0.4)	413 (0.4)	386 (0.4)	353 (0.3)
Unknown/other	266 (0.3)	84 (0.1)	25 (0.1)	27 (0.1)	32 (0.1)	0
Specialties						
Programs	4203 (52.4)	4176 (51.8)	4169 (50.9)	4151 (50.3)	4149 (49.4)	4134 (48.6)
Residents	84 319 (87.5)	85 368 (86.9)	86 357 (86.4)	86 975 (85.9)	88 241 (85.6)	89 269 (85.1)
Subspecialties						
Programs	3822 (47.6)	3888 (48.2)	4023 (49.1)	4095 (49.7)	4254 (50.6)	4368 (51.4)
Residents	12 091 (12.5)	12 890 (13.1)	13 607 (13.6)	14 316 (14.1)	14 865 (14.4)	15 610 (14.9)

Abbreviations: ACGME, Accreditation Council for Graduate Medical Education; DO, doctor of osteopathy; GME, graduate medical education; GY1, graduate year 1, the first year of education beyond medical school for which prior GME is not required; IMG, international medical graduate; USMD, US allopathic medical school graduate.

Appendix II, Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs December 1, 2006

Specialty/Subspecialty	Total No. of Programs ^a	Resident Physicians ^b											
		Total		Females ^c		USMDs		IMGs		Canadians		Osteopathic	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Allergy and immunology	71	274	0.3	131	47.8	219	79.9	41	15.0	2	0.7	12	4.4
Anesthesiology	131	4970	4.7	1663	33.5	3731	75.1	735	14.8	8	0.2	496	10.0
Adult cardiothoracic anesthesiology	12	0	0	0	0	0	0	0	0	0	0	0	0
Critical care medicine	51	44	<0.1	16	36.4	22	50.0	17	38.6	2	4.5	3	6.8
Pain medicine	86	206	0.2	39	18.9	127	61.7	56	27.2	2	1.0	21	10.2
Pediatric anesthesiology	46	110	0.1	44	40	78	70.9	26	23.6	0	0	6	5.5
Colon and rectal surgery	45	71	0.1	22	31.0	56	78.9	11	15.5	1	1.4	3	4.2
Dermatology	112	1069	1.0	675	63.1	1015	94.9	32	3.0	5	0.5	17	1.6
Dermatopathology	47	51	<0.1	19	37.3	38	74.5	10	19.6	0	0	3	5.9
Procedural dermatology	34	22	<0.1	9	40.9	17	77.3	2	9.1	3	13.6	0	0
Emergency medicine	140	4379	4.2	1613	36.8	3739	85.4	234	5.3	12	0.3	394	9.0
Medical toxicology	22	34	<0.1	8	23.5	25	73.5	3	8.8	0	0	6	17.6
Pediatric emergency medicine	15	45	<0.1	33	73.3	31	68.9	9	20.0	0	0	5	11.1
Sports medicine	4	4	<0.1	1	25.0	3	75.0	1	25.0	0	0	0	0
Undersea and hyperbaric medicine	4	0	0	0	0	0	0	0	0	0	0	0	0
Family medicine	464	9456	9.0	5026	53.2	4397	46.5	3708	39.2	15	0.2	1336	14.1
Geriatric medicine	35	44	<0.1	24	54.5	16	36.4	23	52.3	0	0	5	11.4
Sports medicine	90	107	0.1	20	18.7	83	77.6	10	9.3	1	0.9	13	12.1
Internal medicine	386	22 099	21.1	9581	43.4	11 110	50.3	9737	44.1	59	0.3	1193	5.4
Cardiovascular disease	174	2249	2.1	404	18.0	1455	64.7	697	31.0	9	0.4	88	3.9
Clinical cardiac electrophysiology	92	153	0.1	18	11.8	98	64.1	50	32.7	1	0.7	4	2.6
Critical care medicine	29	123	0.1	27	22.0	31	25.2	82	66.7	0	0	10	8.1
Endocrinology, diabetes, and metabolism	123	513	0.5	346	67.4	309	60.2	168	32.7	4	0.8	32	6.2
Gastroenterology	158	1174	1.1	329	28.0	809	68.9	309	26.3	4	0.3	52	4.4
Geriatric medicine	104	243	0.2	143	58.8	75	30.9	161	66.3	0	0	7	2.9
Hematology	11	54	0.1	21	38.9	29	53.7	22	40.7	1	1.9	2	3.7
Hematology and oncology	126	1243	1.2	538	43.3	758	61.0	422	34.0	5	0.4	58	4.7
Infectious disease	141	723	0.7	356	49.2	394	54.5	292	40.4	2	0.3	35	4.8
Interventional cardiology	128	236	0.2	17	7.2	118	50	108	45.8	2	0.8	8	3.4
Nephrology	136	802	0.8	273	34.0	395	49.3	346	43.1	6	0.7	55	6.9
Oncology	18	137	0.1	58	42.3	68	49.6	59	43.1	0	0	10	7.3
Pulmonary disease	24	86	0.1	16	18.6	10	11.6	73	84.9	0	0	3	3.5
Pulmonary disease and critical care medicine	130	1175	1.1	308	26.2	613	52.2	481	40.9	4	0.3	77	6.6
Rheumatology	108	398	0.4	235	59.0	233	58.5	130	32.7	2	0.5	33	8.3
Sports medicine	1	1	<0.1	0	0	1	100.0	0	0	0	0	0	0
Medical genetics	47	77	0.1	42	54.5	44	57.1	31	40.3	0	0	2	2.6
Molecular genetic pathology	18	12	<0.1	8	66.7	6	50	6	50.0	0	0	0	0
Neurological surgery	97	881	0.8	95	10.8	781	88.6	92	10.4	5	0.6	3	0.3
Neurology	122	1507	1.4	644	42.7	860	57.1	550	36.5	5	0.3	92	6.1
Child neurology	69	215	0.2	121	56.3	135	62.8	66	30.7	2	0.9	12	5.6
Clinical neurophysiology	89	155	0.1	54	34.8	80	51.6	59	38.1	0	0	16	10.3
Neurodevelopmental disabilities	7	8	<0.1	6	75.0	7	87.5	1	12.5	0	0	0	0
Neuromuscular medicine	13	6	<0.1	1	16.7	3	50.0	3	50.0	0	0	0	0
Pain medicine	4	1	<0.1	1	100.0	0	0	1	100.0	0	0	0	0
Vascular neurology	39	19	<0.1	5	26.3	10	52.6	8	42.1	0	0	1	5.3
Nuclear medicine	61	143	0.1	42	29.4	72	50.3	66	46.2	0	0	5	3.5
Obstetrics and gynecology	250	4739	4.5	3596	75.9	3368	71.1	1004	21.2	13	0.3	354	7.5
Ophthalmology	117	1225	1.2	482	39.3	1108	90.4	98	8.0	5	0.4	14	1.1
Orthopedic surgery	152	3187	3.0	367	11.5	3087	96.9	73	2.3	1	0	26	0.8
Adult reconstructive orthopedics	19	27	<0.1	0	0	18	66.7	6	22.2	3	11.1	0	0
Foot and ankle orthopedics	8	13	<0.1	3	23.1	11	84.6	1	7.7	1	7.7	0	0
Hand surgery	55	104	0.1	18	17.3	87	83.7	9	8.7	2	1.9	6	5.8
Musculoskeletal oncology	10	8	<0.1	1	12.5	1	12.5	6	75.0	0	0	1	12.5

(continued)

Appendix II, Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs December 1, 2006 (cont)

Specialty/Subspecialty (cont)	Total No. of Programs ^a	Resident Physicians ^b											
		Total		Females ^c		USMDs		IMGs		Canadians		Osteopathic	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Orthopedic surgery (cont)													
Orthopedic sports medicine	68	97	0.1	5	5.2	88	90.7	1	1.0	2	2.1	6	6.2
Orthopedic surgery of the spine	12	20	<0.1	0	0	17	85.0	3	15.0	0	0	0	0
Orthopedic trauma	6	3	<0.1	0	0	0	0	3	100.0	0	0	0	0
Pediatric orthopedics	22	16	<0.1	7	43.8	12	75.0	4	25.0	0	0	0	0
Otolaryngology	104	1292	1.2	352	27.2	1240	96.0	36	2.8	5	0.4	11	0.9
Neurotology	15	12	<0.1	3	25.0	10	83.3	1	8.3	1	8.3	0	0
Pediatric otolaryngology	5	15	<0.1	2	13.3	11	73.3	2	13.3	1	6.7	1	6.7
Pathology, anatomic and clinical	150	2310	2.2	1192	51.6	1490	64.5	690	29.9	7	0.3	123	5.3
Blood banking/transfusion medicine	46	36	<0.1	22	61.1	14	38.9	22	61.1	0	0	0	0
Chemical pathology	3	2	<0.1	0	0	2	100.0	0	0	0	0	0	0
Cytopathology	85	109	0.1	63	57.8	43	39.4	62	56.9	0	0	4	3.7
Forensic pathology	38	28	<0.1	10	35.7	18	64.3	8	28.6	0	0	2	7.1
Hematology	77	88	0.1	45	51.1	50	56.8	32	36.4	1	1.1	5	5.7
Medical microbiology	12	9	<0.1	5	55.6	5	55.6	3	33.3	1	11.1	0	0
Neuropathology	35	38	<0.1	15	39.5	18	47.4	20	52.6	0	0	0	0
Pediatric pathology	25	18	<0.1	12	66.7	3	16.7	13	72.2	1	5.6	1	5.6
Selective pathology	51	84	0.1	41	48.8	33	39.3	47	56.0	0	0	4	4.8
Pediatrics	201	7964	7.6	5718	71.8	5482	68.8	1903	23.9	31	0.4	548	6.9
Adolescent medicine	26	61	0.1	52	85.2	54	88.5	7	11.5	0	0	0	0
Developmental-behavioral pediatrics	31	61	0.1	49	80.3	47	77.0	8	13.1	0	0	6	9.8
Neonatal-perinatal medicine	97	521	0.5	324	62.2	280	53.7	204	39.2	3	0.6	34	6.5
Pediatric cardiology	49	306	0.3	123	40.2	221	72.2	74	24.2	4	1.3	7	2.3
Pediatric critical care medicine	62	334	0.3	150	44.9	232	69.5	83	24.9	2	0.6	17	5.1
Pediatric emergency medicine	46	248	0.2	144	58.1	199	80.2	35	14.1	3	1.2	11	4.4
Pediatric endocrinology	69	201	0.2	144	71.6	122	60.7	72	35.8	2	1.0	5	2.5
Pediatric gastroenterology	51	187	0.2	94	50.3	123	65.8	53	28.3	0	0	11	5.9
Pediatric hematology/oncology	63	336	0.3	208	61.9	257	76.5	67	19.9	1	0.3	11	3.3
Pediatric infectious diseases	62	147	0.1	85	57.8	91	61.9	48	32.7	2	1.4	6	4.1
Pediatric nephrology	37	99	0.1	60	60.6	63	63.6	31	31.3	3	3.0	2	2.0
Pediatric pulmonology	48	113	0.1	52	46.0	64	56.6	44	38.9	1	0.9	4	3.5
Pediatric rheumatology	26	58	0.1	40	69.0	44	75.9	13	22.4	0	0	1	1.7
Pediatric sports medicine	8	12	<0.1	6	50.0	9	75.0	2	16.7	0	0	1	8.3
Physical medicine and rehabilitation	79	1167	1.1	447	38.3	696	59.6	195	16.7	2	0.2	274	23.5
Pain medicine	12	22	<0.1	3	13.6	8	36.4	5	22.7	0	0	9	40.9
Pediatric rehabilitation medicine	11	5	<0.1	3	60.0	4	80.0	1	20.0	0	0	0	0
Spinal cord injury medicine	20	16	<0.1	7	43.8	9	56.3	6	37.5	0	0	1	6.3
Plastic surgery	89	609	0.6	146	24.0	561	92.1	40	6.6	6	1.0	2	0.3
Craniofacial surgery	4	1	<0.1	0	0	1	100.0	0	0	0	0	0	0
Hand surgery	14	15	<0.1	3	20.0	14	93.3	1	6.7	0	0	0	0
Preventive medicine	74	285	0.3	130	45.6	214	75.1	49	17.2	1	0.4	21	7.4
Medical toxicology	4	8	<0.1	3	37.5	7	87.5	0	0	0	0	1	12.5
Undersea and hyperbaric medicine	1	0	0	0	0	0	0	0	0	0	0	0	0
Psychiatry	181	4613	4.4	2491	54.0	2846	61.7	1411	30.6	20	0.4	336	7.3
Addiction psychiatry	42	56	0.1	23	41.1	29	51.8	22	39.3	2	3.6	3	5.4
Child and adolescent psychiatry	115	676	0.6	400	59.2	398	58.9	229	33.9	1	0.1	48	7.1
Forensic psychiatry	43	47	<0.1	17	36.2	32	68.1	14	29.8	0	0	1	2.1
Geriatric psychiatry	58	72	0.1	32	44.4	24	33.3	44	61.1	1	1.4	3	4.2
Pain medicine	1	0	0	0	0	0	0	0	0	0	0	0	0
Psychosomatic medicine	30	15	<0.1	9	60.0	5	33.3	8	53.3	2	13.3	0	0

(continued)

Appendix II, Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs December 1, 2006 (cont)

Specialty/Subspecialty (cont)	Total No. of Programs ^a	Resident Physicians ^b											
		Total		Females ^c		USMDs		IMGs		Canadians		Osteopathic	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Radiation oncology	79	556	0.5	175	31.5	534	96.0	16	2.9	2	0.4	4	0.7
Radiology, diagnostic	188	4368	4.2	1192	27.3	3913	89.6	283	6.5	13	0.3	159	3.6
Abdominal radiology	12	17	<0.1	7	41.2	13	76.5	4	23.5	0	0	0	0
Cardiothoracic radiology	2	1	<0.1	0	0	0	0	1	100.0	0	0	0	0
Endovascular surgical neuroradiology	3	3	<0.1	0	0	2	66.7	1	33.3	0	0	0	0
Musculoskeletal radiology	13	18	<0.1	5	27.8	15	83.3	2	11.1	0	0	1	5.6
Neuroradiology	85	229	0.2	58	25.3	170	74.2	41	17.9	6	2.6	12	5.2
Nuclear radiology	20	6	<0.1	3	50.0	3	50.0	2	33.3	0	0	1	16.7
Pediatric radiology	45	51	<0.1	25	49.0	36	70.6	10	19.6	0	0	5	9.8
Vascular and interventional radiology	97	119	0.1	12	10.1	83	69.7	29	24.4	3	2.5	4	3.4
Sleep medicine ^d	47	34	<0.1	7	20.6	17	50.0	17	50.0	0	0	0	0
Surgery, general	251	7651	7.3	2275	29.7	5966	78.0	1462	19.1	21	0.3	202	2.6
Hand surgery	1	8	<0.1	1	12.5	3	37.5	5	62.5	0	0	0	0
Pediatric surgery	32	60	0.1	14	23.3	57	95.0	2	3.3	1	1.7	0	0
Surgical critical care	86	112	0.1	24	21.4	79	70.5	26	23.2	1	0.9	6	5.4
Vascular surgery	95	197	0.2	28	14.2	138	70.1	49	24.9	2	1.0	8	4.1
Vascular surgery, integrated	3	0	0	0	0	0	0	0	0	0	0	0	0
Thoracic surgery	85	282	0.3	33	11.7	212	75.2	61	21.6	4	1.4	5	1.8
Urology	118	992	0.9	212	21.4	942	95.0	36	3.6	1	0.1	13	1.3
Pediatric urology	20	18	<0.1	2	11.1	12	66.7	6	33.3	0	0	0	0
Transitional year	129	1169	1.1	435	37.2	1029	88.0	84	7.2	1	0.1	55	4.7
Combined Specialties													
Internal medicine/dermatology	6	9	<0.1	7	77.8	9	100.0	0	0	0	0	0	0
Internal medicine/emergency medicine	11	106	0.1	32	30.2	93	87.7	3	2.8	1	0.9	9	8.5
Internal medicine/emergency medicine/critical care medicine	2	0	0	0	0	0	0	0	0	0	0	0	0
Internal medicine/family medicine	2	17	<0.1	9	52.9	10	58.8	2	11.8	0	0	5	29.4
Internal medicine/medical genetics	6	2	<0.1	0	0	1	50.0	1	50.0	0	0	0	0
Internal medicine/neurology	8	12	<0.1	2	16.7	7	58.3	4	33.3	0	0	1	8.3
Internal medicine/nuclear medicine	2	0	0	0	0	0	0	0	0	0	0	0	0
Internal medicine/pediatrics	92	1446	1.4	768	53.1	1147	79.3	215	14.9	3	0.2	81	5.6
Internal medicine/physical medicine and rehabilitation	2	0	0	0	0	0	0	0	0	0	0	0	0
Internal medicine/preventive medicine	7	25	<0.1	15	60.0	6	24.0	17	68.0	1	4.0	1	4.0
Internal medicine/psychiatry	16	100	0.1	47	47.0	62	62.0	32	32.0	0	0	6	6.0
Neurology/diagnostic radiology/ neuroradiology	2	7	<0.1	0	0	7	100.0	0	0	0	0	0	0
Pediatrics/dermatology	3	2	<0.1	2	100.0	2	100.0	0	0	0	0	0	0
Pediatrics/emergency medicine	3	25	<0.1	14	56.0	23	92.0	0	0	0	0	2	8.0
Pediatrics/medical genetics	12	15	<0.1	5	33.3	12	80.0	3	20.0	0	0	0	0
Pediatrics/physical medicine and rehabilitation	5	15	<0.1	8	53.3	10	66.7	2	13.3	0	0	3	20.0
Pediatrics/psychiatry/child and adolescent psychiatry	10	89	0.1	60	67.4	82	92.1	5	5.6	0	0	2	2.2
Psychiatry/family medicine	9	45	<0.1	14	31.1	38	84.4	3	6.7	0	0	4	8.9
Psychiatry/neurology	10	19	<0.1	5	26.3	17	89.5	1	5.3	0	0	1	5.3
Total	8502	104 879	100	45 732	100	69 721	100	28 176	100	353	100	6629	100

Abbreviations; GME, graduate medical education; IMGs, international medical graduates; USMDs US allopathic medical graduates.

^aTotal number of US GME programs accredited by the Accreditation Council for Graduate Medical Education and combined specialty programs, as of December 31, 2006, surveyed by National GME Census during 2006.

^bIncludes resident physicians on duty as of December 1, 2006, reported through the 2006 National GME Census. A total of 167 programs (2.0%) did not provide updated information on residents by March 1, 2007. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated, and new residents were added from the 2006 National Resident Matching Program (NRMP) when available.

^cSex was not indicated for 1 resident physician (<0.001%).

^dSleep medicine is a subspecialty of internal medicine, pediatrics, psychiatry, neurology, or otolaryngology.

Appendix II, Table 3. Total Number of Resident Physicians and Resident Physicians in Program Year 1 Positions and in Graduate Year 1 Positions on Duty December 1, 2006, in ACGME-Accredited Programs and in Combined Specialty Programs

Specialty/Subspecialty	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in Graduate Year 1 Positions With Prior US GME ^c	No. of Residents in Graduate Year 1 Positions Without Prior US GME ^c
Allergy and immunology	274	132	0	0
Anesthesiology	4970	1518	255	526
Adult cardiothoracic anesthesiology	0	0	0	0
Critical care medicine	44	42	0	0
Pain medicine	206	205	0	0
Pediatric anesthesiology	110	105	0	0
Colon and rectal surgery	71	69	0	0
Dermatology	1069	354	2	7
Dermatopathology	51	48	0	0
Procedural dermatology	22	22	0	0
Emergency medicine	4379	1408	143	1157
Medical toxicology	34	17	0	0
Pediatric emergency medicine	45	18	0	0
Sports medicine	4	4	0	0
Undersea and hyperbaric medicine	0	0	0	0
Family medicine	9456	3156	146	3010
Geriatric medicine	44	42	0	0
Sports medicine	107	104	0	0
Internal medicine	22 099	8564	164	8400
Cardiovascular disease	2249	742	0	0
Clinical cardiac electrophysiology	153	124	0	0
Critical care medicine	123	82	0	0
Endocrinology, diabetes, and metabolism	513	232	0	0
Gastroenterology	1174	372	0	0
Geriatric medicine	243	211	0	0
Hematology	54	18	0	0
Hematology and oncology	1243	410	0	0
Infectious disease	723	324	0	0
Interventional cardiology	236	225	0	0
Nephrology	802	372	0	0
Oncology	137	56	0	0
Pulmonary disease	86	39	0	0
Pulmonary disease and critical care medicine	1175	400	0	0
Rheumatology	398	176	0	0
Sports medicine	1	1	0	0
Medical genetics	77	34	4	1
Molecular genetic pathology	12	10	0	0
Neurological surgery	881	152	15	31
Neurology	1507	439	42	70
Child neurology	215	69	0	0
Clinical neurophysiology	155	148	0	0
Neurodevelopmental disabilities	8	2	0	0
Neuromuscular medicine	6	6	0	0
Pain medicine	1	1	0	0
Vascular neurology	19	19	0	0
Nuclear medicine	143	80	0	0
Obstetrics and gynecology	4739	1225	48	1177
Ophthalmology	1225	384	0	0
Orthopedic surgery	3187	637	35	596
Adult reconstructive orthopedics	27	27	0	0
Foot and ankle orthopedics	13	13	0	0

(continued)

Appendix II, Table 3. Total Number of Resident Physicians and Resident Physicians in Program Year 1 Positions and in Graduate Year 1 Positions on Duty December 1, 2006, in ACGME-Accredited Programs and in Combined Specialty Programs (cont)

Specialty/Subspecialty (cont)	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in Graduate Year 1 Positions With Prior US GME ^c	No. of Residents in Graduate Year 1 Positions Without Prior US GME ^c
Orthopedic surgery (cont)				
Hand surgery	104	101	0	0
Musculoskeletal oncology	8	7	0	0
Orthopedic sports medicine	97	97	0	0
Orthopedic surgery of the spine	20	20	0	0
Orthopedic trauma	3	2	0	0
Pediatric orthopedics	16	16	0	0
Otolaryngology	1292	262	23	239
Neurotology	12	9	0	0
Pediatric otolaryngology	15	7	0	0
Pathology, anatomic and clinical	2310	613	66	547
Blood banking/transfusion medicine	36	27	0	0
Chemical pathology	2	2	0	0
Cytopathology	109	100	0	0
Forensic pathology	28	25	0	0
Hematology	88	78	0	0
Medical microbiology	9	6	0	0
Neuropathology	38	18	0	0
Pediatric pathology	18	17	0	0
Selective pathology	84	78	0	0
Pediatrics	7964	2622	46	2576
Adolescent medicine	61	20	0	0
Developmental-behavioral pediatrics	61	20	0	0
Neonatal-perinatal medicine	521	169	0	0
Pediatric cardiology	306	96	0	0
Pediatric critical care medicine	334	125	0	0
Pediatric emergency medicine	248	81	0	0
Pediatric endocrinology	201	71	0	0
Pediatric gastroenterology	187	60	0	0
Pediatric hematology-oncology	336	106	0	0
Pediatric infectious diseases	147	43	0	0
Pediatric nephrology	99	22	0	0
Pediatric pulmonology	113	36	0	0
Pediatric rheumatology	58	23	0	0
Pediatric sports medicine	12	10	0	0
Physical medicine and rehabilitation	1167	365	41	57
Pain medicine	22	22	0	0
Pediatric rehabilitation medicine	5	4	0	0
Spinal cord injury medicine	16	16	0	0
Plastic surgery	609	185	9	56
Craniofacial surgery	1	1	0	0
Hand surgery	15	13	0	0
Preventive medicine	285	150	2	2
Medical toxicology	8	4	0	0
Undersea and hyperbaric medicine	0	0	0	0
Psychiatry	4613	1184	46	1138
Addiction psychiatry	56	50	0	0
Child and adolescent psychiatry	676	318	0	0
Forensic psychiatry	47	46	0	0
Geriatric psychiatry	72	68	0	0

(continued)

Appendix II, Table 3. Total Number of Resident Physicians and Resident Physicians in Program Year 1 Positions and in Graduate Year 1 Positions on Duty December 1, 2006, in ACGME-Accredited Programs and in Combined Specialty Programs (cont)

Specialty/Subspecialty (cont)	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in Graduate Year 1 Positions With Prior US GME ^c	No. of Residents in Graduate Year 1 Positions Without Prior US GME ^c
Psychiatry (cont)				
Pain medicine	0	0	0	0
Psychosomatic medicine	15	15	0	0
Radiation oncology	556	152	0	0
Radiology, diagnostic	4368	1063	24	65
Abdominal radiology	17	17	0	0
Cardiothoracic radiology	1	1	0	0
Endovascular surgical neuroradiology	3	3	0	0
Musculoskeletal radiology	18	18	0	0
Neuroradiology	229	193	0	0
Nuclear radiology	6	6	0	0
Pediatric radiology	51	50	0	0
Vascular and interventional radiology	119	116	0	0
Sleep medicine ^d	34	34	0	0
Surgery, general	7651	2363	60	2303
Hand surgery	8	8	0	0
Pediatric surgery	60	27	0	0
Surgical critical care	112	106	0	0
Vascular surgery	197	118	0	0
Vascular surgery, integrated	0	0	0	0
Thoracic surgery	282	118	0	0
Urology	992	178	0	0
Pediatric urology	18	11	0	0
Transitional year	1169	1156	4	1152
Combined Specialties				
Internal medicine/dermatology	9	3	0	3
Internal medicine/emergency medicine	106	23	2	21
Internal medicine/emergency medicine/ critical care medicine	0	0	0	0
Internal medicine/family medicine	17	4	0	4
Internal medicine/medical genetics	2	2	1	1
Internal medicine/neurology	12	2	1	1
Internal medicine/nuclear medicine	0	0	0	0
Internal medicine/pediatrics	1446	383	5	378
Internal medicine/physical medicine and rehabilitation	0	0	0	0
Internal medicine/preventive medicine	25	8	0	8
Internal medicine/psychiatry	100	19	0	19
Neurology/diagnostic radiology/neuroradiology	7	0	0	0
Pediatrics/dermatology	2	0	0	0
Pediatrics/emergency medicine	25	6	0	6
Pediatrics/medical genetics	15	3	0	3
Pediatrics/physical medicine and rehabilitation	15	3	1	2
Pediatrics/psychiatry/child and adolescent psychiatry	89	20	0	20
Psychiatry/family medicine	45	9	0	9
Psychiatry/neurology	19	2	0	2
Total	104 879	36 493	1185	23 587

Abbreviations: ACGME, Accreditation Council for Graduate Medical Education; GME, graduate medical education.

^aIncludes resident physicians on duty as of December 1, 2006, reported through the 2006 National GME Census. A total of 167 programs (2.0%) did not provide updated information on residents by March 1, 2007. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated, and new residents were added from the 2006 National Resident Matching Program when available.

^bProgram year 1 refers to the first year of training within a specific program; this may not correspond to the graduate year.

^cGraduate year 1 refers to positions available the first year after completing medical school; approximately 4.8% of resident physicians in graduate year 1 positions have had some prior US GME.

^dSleep medicine is a subspecialty of internal medicine, pediatrics, psychiatry, neurology, or otolaryngology.

Appendix II, Table 4. Programs and Resident Physicians on Duty December 1, 2006, by Number and by Region and State

Region and State	No. of Resident Physicians/ 100 000 ^a	2006 Population, in Thousands ^b	Programs ^c		Resident Physicians ^d	
			No.	%	No.	%
New England, subtotal	60	14 270	688	8.1	8620	8.2
Connecticut	57	3505	162	1.9	1993	1.9
Maine	21	1322	21	0.2	276	0.3
Massachusetts	78	6437	371	4.4	4998	4.8
New Hampshire	28	1315	41	0.5	364	0.3
Rhode Island	68	1068	59	0.7	731	0.7
Vermont	41	624	34	0.4	258	0.2
Middle Atlantic, subtotal	62	40 471	1866	21.9	25 204	24.0
New Jersey	30	8725	190	2.2	2636	2.5
New York	80	19 306	1103	13.0	15 458	14.7
Pennsylvania	57	12 441	573	6.7	7110	6.8
East North Central, subtotal	39	46 276	1429	16.8	18 008	17.2
Illinois	45	12 832	410	4.8	5781	5.5
Indiana	20	6314	102	1.2	1281	1.2
Michigan	43	10 096	330	3.9	4300	4.1
Ohio	44	11 478	431	5.1	5017	4.8
Wisconsin	29	5557	156	1.8	1629	1.6
West North Central, subtotal	34	19 942	582	6.8	6819	6.5
Iowa	26	2982	82	1.0	768	0.7
Kansas	24	2764	54	0.6	671	0.6
Minnesota	40	5167	165	1.9	2086	2.0
Missouri	42	5843	212	2.5	2473	2.4
Nebraska	34	1768	55	0.6	609	0.6
North Dakota	17	636	7	0.1	106	0.1
South Dakota	14	782	7	0.1	106	0.1
South Atlantic, subtotal	27	57 144	1404	16.5	15 699	15.0
Delaware	27	853	19	0.2	232	0.2
District of Columbia	312	582	177	2.1	1816	1.7
Florida	17	18 090	264	3.1	3028	2.9
Georgia	21	9364	162	1.9	1930	1.8
Maryland	42	5616	201	2.4	2364	2.3
North Carolina	31	8857	245	2.9	2759	2.6
South Carolina	23	4321	88	1.0	1004	1.0
Virginia	25	7643	188	2.2	1944	1.9
West Virginia	34	1818	60	0.7	622	0.6
East South Central, subtotal	26	17 754	401	4.7	4667	4.4
Alabama	26	4599	104	1.2	1214	1.2
Kentucky	24	4206	95	1.1	991	0.9
Mississippi	16	2911	41	0.5	465	0.4
Tennessee	33	6039	161	1.9	1997	1.9
West South Central, subtotal	28	34 186	783	9.2	9488	9.0
Arkansas	24	2811	61	0.7	676	0.6
Louisiana	35	4288	144	1.7	1494	1.4
Oklahoma	19	3579	65	0.8	685	0.7
Texas	28	23 508	513	6.0	6633	6.3
Mountain, subtotal	18	20 846	328	3.9	3800	3.6
Arizona	20	6166	102	1.2	1223	1.2
Colorado	24	4753	86	1.0	1121	1.1
Idaho	3	1466	4	0.0	46	0.0
Montana	2	945	2	0.0	19	0.0
Nevada	8	2496	15	0.2	207	0.2

(continued)

Appendix II, Table 4. Programs and Resident Physicians on Duty December 1, 2006, by Number and by Region and State (cont)

Region and State	No. of Resident Physicians/ 100 000 ^a	2006 Population, in Thousands ^b	Programs ^c		Resident Physicians ^d	
			No.	%	No.	%
Mountain, subtotal (cont)						
New Mexico	25	1955	51	0.6	498	0.5
Utah	25	2550	66	0.8	647	0.6
Wyoming	8	515	2	0.0	39	0.0
Pacific, subtotal	25	48 510	956	11.2	11 922	11.4
Alaska	5	670	1	0.0	31	0.0
California	25	36 458	731	8.6	9088	8.7
Hawaii	32	1285	33	0.4	417	0.4
Oregon	21	3701	68	0.8	760	0.7
Washington	25	6396	123	1.4	1626	1.6
Puerto Rico	17	3928	65	0.8	652	0.6
Total	35	303 326	8502	100	104 879	100

^aAggregate number of resident physicians per 100 000 population.

^b2006 State population is from Table 1: Annual Estimates of the Population for the United States, Regions, and States and for Puerto Rico: April 1, 2000 to July 1, 2006 (NST-EST2006-01). Source: Population Division, US Census Bureau, December 22, 2006 (<http://www.census.gov/popest/states/NST-ann-est.html>, accessed May 18, 2007). Total population numbers include the District of Columbia and Puerto Rico.

^cTotal number of US graduate medical education (GME) programs accredited by the Accreditation Council for Graduate Medical Education and combined specialty programs, as of December 31, 2006, surveyed by the National GME Census during 2006.

^dIncludes resident physicians on duty as of December 1, 2006, reported through the 2006 National GME Census. A total of 167 programs (2.0%) did not provide updated information on residents by March 1, 2007. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated, and new residents were added from the 2006 National Resident Matching Program when available.

Appendix II, Table 5. Citizenship Status of International Medical Graduates With No Prior US Graduate Medical Education (GME) in the First Year of GME on Duty December 1, 2006^a

	US Citizen	US Permanent Resident	Non-US Citizen	Unknown Citizenship/ Foreign Born	Unknown Citizenship/ Unknown Birth Country	Total
Specialty/Subspecialty						
Anesthesiology	11	4	7	2	28	52
Emergency medicine	32	5	5	4	17	63
Family medicine	366	348	253	67	200	1234
Internal medicine	474	547	1100	215	934	3270
Medical genetics	0	0	1	0	0	1
Neurological surgery	0	0	2	0	1	3
Neurology	1	2	9	2	9	23
Obstetrics and gynecology	63	43	66	13	43	228
Orthopedic surgery	4	1	2	2	2	11
Otolaryngology	0	0	0	0	2	2
Pathology, anatomic and clinical	24	57	41	17	35	174
Pediatrics	107	82	220	37	136	582
Physical medicine and rehabilitation	2	1	2	0	2	7
Preventive medicine	0	1	0	0	1	2
Psychiatry	76	71	98	21	80	346
Radiology, diagnostic	0	1	2	0	1	4
Surgery, general	105	66	113	25	155	464
Transitional year	33	21	11	2	15	82
Combined Specialties						
Internal medicine/emergency medicine	1	0	0	0	0	1
Internal medicine/family medicine	0	1	0	1	0	2
Internal medicine/pediatrics	12	6	12	6	9	45
Internal medicine/preventive medicine	2	1	1	0	1	5

(continued)

Appendix II, Table 5. Citizenship Status of International Medical Graduates With No Prior US Graduate Medical Education (GME) in the First Year of GME on Duty December 1, 2006^a (cont)

	US Citizen	US Permanent Resident	Non-US Citizen	Unknown Citizenship/ Foreign Born	Unknown Citizenship/ Unknown Birth Country	Total
Combined Specialties (cont)						
Internal medicine/psychiatry	1	1	6	0	1	9
Pediatrics/medical genetics	0	0	1	0	0	1
Pediatrics/psychiatry/child and adolescent psychiatry	0	1	0	0	1	2
Total (%)	1314 (19.9)	1260 (19.1)	1952 (29.5)	414 (6.3)	1673 (25.3)	6613

^aIncludes only international medical graduate resident physicians entering US GME for the first time; graduates of Canadian medical schools are not considered international medical graduates.

Appendix II, Table 6. Race and Hispanic Ethnic Origin of Resident Physicians on Duty December 1, 2006, by Type of Medical School From Which They Graduated^a

Race and Hispanic Ethnic Origin ^b	US and Canadian Allopathic		US Osteopathic		Non-US		Total
	No.	%	No.	%	No.	%	
Black	4209	71.9	144	2.5	1502	25.7	5855
American Indian/Alaskan Native	194	91.9	12	5.7	5	2.4	211
White	43 930	76.4	4278	7.4	9327	16.2	57 535
Asian	12 708	46.6	936	3.4	13 602	49.9	27 246
Native Hawaiian/Pacific Islander	268	47.2	34	6.0	266	46.8	568
Other/unknown	8765	65.1	1225	9.1	3474	25.8	13 464
Total	70 074	66.8	6629	6.3	28 176	26.9	104 879
Hispanic origin	3867	54.7	193	2.7	3015	42.6	7075
Non-Hispanic origin	66 207	67.7	6436	6.6	25 161	25.7	97 804

^aIncludes resident physicians on duty as of December 1, 2006, reported through the 2006 National GME Census. A total of 167 programs (2.0%) did not provide updated information on residents by March 1, 2007. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated, and new residents were added from the 2006 National Resident Matching Program when available.

^bFollowing the US Census Bureau, the 2006 National GME Census asked for race and Hispanic ethnicity in 2 separate questions. A person of Hispanic ethnicity can be of any race.

Appendix II, Table 7. Citizenship/Visa Status of All Resident Physicians and International Medical Graduates (IMGs) on Duty in ACGME-Accredited and in Combined Specialty Programs, December 1, 2006

Citizenship/Visa Status	Resident Physicians ^a			
	Total		IMGs ^b	
	No.	%	No.	%
Native US citizen	67 383	64.3	4066	14.4
Naturalized US citizen	9456	9.0	2812	9.9
Permanent resident	9138	8.7	6589	23.4
B-1, B-2 temporary visitor	126	0.1	118	0.4
F-1 student	91	<0.1	2	<0.1
H-1, H-1B, H-2, H-3 temporary worker	4423	4.2	4242	15.1
J-1, J-2 exchange visitor	4114	3.9	3960	14.1
Refugee/asylee/displaced person	117	0.1	113	0.4
Other	610	0.6	516	1.8
Unknown citizenship/foreign born	5796	5.5	3419	12.1
Unknown citizenship/unknown birth country	3625	3.5	2339	8.3
Total	104 879	100	28 176	100

Abbreviation: ACGME, Accreditation Council for Graduate Medical Education.

^aIncludes resident physicians on duty as of December 1, 2006, reported through the 2006 National GME Census. A total of 167 programs (2.0%) did not provide updated information on residents by March 1, 2007. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated, and new residents were added from the 2006 National Resident Matching Program when available.

^bDoes not include graduates of Canadian medical schools.

Appendix II, Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 1, 2006, by Specialty^a

Specialty/Subspecialty	No. of Resident Physicians							Total
	Black	American Indian/ Alaskan Native	White	Asian	Native Hawaiian/ Pacific Islander	Other/ Unknown	Hispanic Origin ^b	
Allergy and immunology	11	1	162	83	3	14	8	274
Anesthesiology	252	8	3011	1034	21	644	271	4970
Adult cardiothoracic anesthesiology	0	0	0	0	0	0	0	0
Critical care medicine	0	0	25	7	1	11	5	44
Pain medicine	8	1	113	74	2	8	15	206
Pediatric anesthesiology	6	1	63	32	0	8	7	110
Colon and rectal surgery	5	0	46	13	0	7	5	71
Dermatology	36	2	722	176	4	129	50	1069
Dermatopathology	1	0	37	10	0	3	4	51
Procedural dermatology	1	0	16	3	0	2	1	22
Emergency medicine	198	13	3164	586	19	399	222	4379
Medical toxicology	3	0	17	6	0	8	0	34
Pediatric emergency medicine	4	0	27	9	0	5	4	45
Sports medicine	0	0	3	1	0	0	0	4
Undersea and hyperbaric medicine	0	0	0	0	0	0	0	0
Family medicine	694	46	5405	2420	126	765	743	9456
Geriatric medicine	4	0	22	15	1	2	5	44
Sports medicine	6	0	79	13	0	9	5	107
Internal medicine	1215	30	8528	8299	84	3943	1686	22 099
Cardiovascular disease	79	6	1245	712	6	201	124	2249
Clinical cardiac electrophysiology	8	0	92	44	0	9	7	153
Critical care medicine	11	0	57	41	1	13	9	123
Endocrinology, diabetes, and metabolism	18	0	270	176	0	49	37	513
Gastroenterology	33	0	626	407	2	106	62	1174
Geriatric medicine	23	0	92	103	5	20	23	243
Hematology	4	0	23	23	1	3	5	54
Hematology and oncology	36	1	705	404	8	89	56	1243
Infectious disease	42	1	385	238	1	56	61	723
Interventional cardiology	8	0	123	82	2	21	15	236
Nephrology	51	1	322	360	9	59	43	802
Oncology	4	0	67	57	1	8	7	137
Pulmonary disease	5	0	39	35	1	6	5	86
Pulmonary disease and critical care medicine	34	0	667	359	7	108	84	1175
Rheumatology	13	0	205	144	5	31	24	398
Sports medicine	0	0	1	0	0	0	0	1
Medical genetics	2	0	51	17	0	7	6	77
Molecular genetic pathology	0	0	7	4	0	1	1	12
Neurological surgery	41	0	568	149	4	119	58	881
Neurology	45	0	764	438	5	255	116	1507
Child neurology	10	2	128	58	1	16	11	215
Clinical neurophysiology	2	0	86	51	0	16	10	155
Neurodevelopmental disabilities	1	0	6	1	0	0	0	8
Neuromuscular medicine	0	0	3	3	0	0	0	6
Pain medicine	0	0	1	0	0	0	0	1
Vascular neurology	0	0	12	3	0	4	3	19
Nuclear medicine	6	0	58	64	0	15	7	143
Obstetrics and gynecology	513	17	2783	709	20	697	336	4739
Ophthalmology	36	0	710	325	8	146	54	1225
Orthopedic surgery	121	5	2185	368	12	496	118	3187
Adult reconstructive orthopedics	2	0	13	5	0	7	2	27
Foot and ankle orthopedics	2	0	9	1	0	1	2	13
Hand surgery	3	0	74	18	1	8	2	104

(continued)

Appendix II, Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 1, 2006, by Specialty^a (cont)

Specialty/Subspecialty (cont)	No. of Resident Physicians							Total
	Black	American Indian/ Alaskan Native	White	Asian	Native Hawaiian/ Pacific Islander	Other/ Unknown	Hispanic Origin ^b	
Orthopedic surgery (cont)								
Musculoskeletal oncology	0	0	2	5	0	1	0	8
Orthopedic sports medicine	4	0	75	9	0	9	3	97
Orthopedic surgery of the spine	0	0	13	4	0	3	0	20
Orthopedic trauma	0	0	1	0	0	2	1	3
Pediatric orthopedics	0	0	11	4	0	1	0	16
Otolaryngology	33	2	823	254	2	178	48	1292
Neurotology	0	0	10	1	0	1	1	12
Pediatric otolaryngology	0	0	10	3	0	2	2	15
Pathology, anatomic and clinical	86	5	1411	560	10	238	127	2310
Blood banking/transfusion medicine	3	0	18	13	0	2	3	36
Chemical pathology	1	0	1	0	0	0	0	2
Cytopathology	2	0	61	41	1	4	4	109
Forensic pathology	6	0	16	5	0	1	0	28
Hematology	2	0	51	29	0	6	4	88
Medical microbiology	0	0	7	2	0	0	1	9
Neuropathology	0	0	26	9	1	2	3	38
Pediatric pathology	1	0	7	5	1	4	3	18
Selective pathology	6	0	49	24	0	5	7	84
Pediatrics	550	19	4586	1758	52	999	656	7964
Adolescent medicine	11	0	38	6	0	6	3	61
Developmental-behavioral pediatrics	1	0	44	10	0	6	6	61
Neonatal-perinatal medicine	39	0	305	144	6	27	53	521
Pediatric cardiology	8	1	192	88	2	15	14	306
Pediatric critical care medicine	11	2	231	64	5	21	26	334
Pediatric emergency medicine	11	0	165	45	4	23	16	248
Pediatric endocrinology	5	0	116	68	2	10	15	201
Pediatric gastroenterology	10	0	101	58	0	18	13	187
Pediatric hematology/oncology	15	0	240	59	4	18	29	336
Pediatric infectious diseases	14	0	90	32	1	10	19	147
Pediatric nephrology	5	0	56	33	2	3	7	99
Pediatric pulmonology	4	0	63	37	0	9	10	113
Pediatric rheumatology	2	0	43	8	2	3	4	58
Pediatric sports medicine	0	0	10	2	0	0	0	12
Physical medicine and rehabilitation	97	3	571	295	12	189	86	1167
Pain medicine	0	0	15	4	1	2	2	22
Pediatric rehabilitation medicine	0	0	4	0	0	1	2	5
Spinal cord injury medicine	2	0	5	8	0	1	1	16
Plastic surgery	20	0	398	134	1	56	43	609
Craniofacial surgery	0	0	0	1	0	0	0	1
Hand surgery	1	0	10	2	0	2	0	15
Preventive medicine	29	0	158	42	0	56	12	285
Medical toxicology	1	0	5	2	0	0	0	8
Undersea and hyperbaric medicine	0	0	0	0	0	0	0	0
Psychiatry	315	6	2368	1099	23	802	387	4613
Addiction psychiatry	3	0	30	15	0	8	6	56
Child and adolescent psychiatry	63	3	362	205	6	37	58	676
Forensic psychiatry	6	1	28	8	0	4	1	47
Geriatric psychiatry	7	0	25	32	1	7	8	72
Pain medicine	0	0	0	0	0	0	0	0
Psychosomatic medicine	2	0	9	3	0	1	0	15
Radiation oncology	18	1	306	171	3	57	18	556

(continued)

Appendix II, Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 1, 2006, by Specialty^a (cont)

Specialty/Subspecialty (cont)	No. of Resident Physicians							Total
	Black	American Indian/ Alaskan Native	White	Asian	Native Hawaiian/ Pacific Islander	Other/ Unknown	Hispanic Origin ^b	
Radiology, diagnostic	102	3	2754	1048	14	447	220	4368
Abdominal radiology	0	0	8	7	0	2	1	17
Cardiothoracic radiology	0	0	1	0	0	0	0	1
Endovascular surgical neuroradiology	0	0	3	0	0	0	0	3
Musculoskeletal radiology	0	0	14	3	0	1	0	18
Neuroradiology	8	0	119	79	1	22	12	229
Nuclear radiology	0	0	3	3	0	0	0	6
Pediatric radiology	1	0	35	11	0	4	5	51
Vascular and interventional radiology	2	0	68	37	1	11	8	119
Sleep medicine ^c	1	0	17	10	0	6	0	34
Surgery, general	477	19	4510	1501	29	1115	562	7651
Hand surgery	0	0	7	1	0	0	0	8
Pediatric surgery	3	0	46	7	0	4	2	60
Surgical critical care	11	0	68	20	0	13	9	112
Vascular surgery	7	0	111	65	0	14	17	197
Vascular surgery-integrated	0	0	0	0	0	0	0	0
Thoracic surgery	24	1	169	67	2	19	23	282
Urology	42	0	694	167	2	87	44	992
Pediatric urology	0	0	10	4	0	4	2	18
Transitional year	40	3	765	255	6	100	74	1169
Combined Specialties								
Internal medicine/dermatology	0	0	6	1	0	2	1	9
Internal medicine/emergency medicine	11	1	62	10	1	21	5	106
Internal medicine/emergency medicine/ critical care medicine	0	0	0	0	0	0	0	0
Internal medicine/family medicine	1	1	12	3	0	0	0	17
Internal medicine/medical genetics	0	0	1	1	0	0	1	2
Internal medicine/neurology	0	0	7	3	0	2	1	12
Internal medicine/nuclear medicine	0	0	0	0	0	0	0	0
Internal medicine/pediatrics	103	2	864	302	8	167	46	1446
Internal medicine/physical medicine and rehabilitation	0	0	0	0	0	0	0	0
Internal medicine/preventive medicine	3	0	6	10	0	6	2	25
Internal medicine/psychiatry	13	2	48	22	0	15	4	100
Neurology/diagnostic radiology/neuroradiology	0	0	4	2	0	1	0	7
Pediatrics/dermatology	1	0	1	0	0	0	1	2
Pediatrics/emergency medicine	2	0	22	1	0	0	2	25
Pediatrics/medical genetics	0	0	15	0	0	0	3	15
Pediatrics/physical medicine and rehabilitation	0	0	10	4	0	1	0	15
Pediatrics/psychiatry/child and adolescent psychiatry	7	1	49	16	0	16	3	89
Psychiatry/family medicine	3	0	31	3	1	7	6	45
Psychiatry/neurology	2	0	12	2	0	3	0	19
Total (%)	5855 (5.6)	211 (0.2)	57 535 (54.9)	27 246 (26.0)	568 (0.5)	13 464 (12.8)	7075 (6.8)	104 879 (100.0)

Abbreviation: ACGME, Accreditation Council for Graduate Medical Education.

^aIncludes resident physicians on duty as of December 1, 2006, reported through the 2006 National GME Census. A total of 167 programs (2.0%) did not provide updated information on residents by March 1, 2007. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated, and new residents were added from the 2006 National Resident Matching Program when available.

^bFollowing the US Census Bureau, the 2006 National GME Census asked for race and Hispanic ethnicity in 2 separate questions. A person of Hispanic ethnicity can be of any race.

^cSleep medicine is a subspecialty of internal medicine, pediatrics, psychiatry, neurology, or otolaryngology.

Appendix II, Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2005-2006

Specialty/Subspecialty	No. Completing a Program	No. Completing a Preliminary Year
Allergy and immunology	121	0
Anesthesiology	1427	5
Critical care medicine	56	0
Pain medicine	175	0
Pediatric anesthesiology	109	0
Colon and rectal surgery	45	0
Dermatology	341	0
Dermatopathology	63	0
Procedural dermatology	21	0
Emergency medicine	1287	0
Medical toxicology	22	0
Pediatric emergency medicine	10	0
Sports medicine	3	0
Undersea and hyperbaric medicine	2	0
Family medicine	3083	35
Geriatric medicine	50	0
Sports medicine	74	0
Internal medicine	6408	2138
Cardiovascular disease	703	0
Clinical cardiac electrophysiology	110	0
Critical care medicine	98	0
Endocrinology, diabetes, and metabolism	234	0
Gastroenterology	365	0
Geriatric medicine	254	0
Hematology	24	0
Hematology and oncology	389	0
Infectious disease	286	0
Interventional cardiology	201	0
Nephrology	399	0
Oncology	69	0
Pulmonary disease	44	0
Pulmonary disease and critical care medicine	363	0
Rheumatology	173	0
Sports medicine	1	0
Medical genetics	28	1
Molecular genetic pathology	7	0
Neurological surgery	148	0
Neurology	444	0
Child neurology	57	0
Clinical neurophysiology	141	0
Neurodevelopmental disabilities	4	0
Vascular neurology	19	0
Nuclear medicine	84	0
Obstetrics and gynecology	1148	19
Ophthalmology	435	0
Orthopedic surgery	617	0
Adult reconstructive orthopedics	31	0
Foot and ankle orthopedics	10	0
Hand surgery	81	0

(continued)

Appendix II, Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2005-2006 (cont)

Specialty/Subspecialty (cont)	No. Completing a Program	No. Completing a Preliminary Year
Orthopedic surgery (cont)		
Musculoskeletal oncology	10	0
Orthopedic sports medicine	96	0
Orthopedic surgery of the spine	26	0
Orthopedic trauma	8	0
Pediatric orthopedics	19	0
Otolaryngology	273	0
Neurotology	8	0
Pediatric otolaryngology	9	0
Pathology, anatomic and clinical	644	0
Blood banking/transfusion medicine	38	0
Cytopathology	95	0
Forensic pathology	38	0
Hematology	76	0
Medical microbiology	3	0
Neuropathology	9	0
Pediatric pathology	20	0
Selective pathology	75	0
Pediatrics	2507	24
Adolescent medicine	21	0
Developmental-behavioral pediatrics	12	0
Neonatal-perinatal medicine	174	0
Pediatric cardiology	92	0
Pediatric critical care medicine	99	0
Pediatric emergency medicine	72	0
Pediatric endocrinology	64	0
Pediatric gastroenterology	55	0
Pediatric hematology/oncology	99	0
Pediatric infectious diseases	46	0
Pediatric nephrology	27	0
Pediatric pulmonology	44	0
Pediatric rheumatology	9	0
Pediatric sports medicine	9	0
Physical medicine and rehabilitation	367	0
Pain medicine	19	0
Pediatric rehabilitation medicine	1	0
Spinal cord injury medicine	10	0
Plastic surgery	189	0
Craniofacial surgery	3	0
Hand surgery	10	0
Preventive medicine	207	0
Medical toxicology	5	0
Psychiatry	1065	3
Addiction psychiatry	33	0
Child and adolescent psychiatry	364	0
Forensic psychiatry	55	0
Geriatric psychiatry	86	0
Psychosomatic medicine	10	0

(continued)

Appendix II, Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2005-2006 (cont)

Specialty/Subspecialty (cont)	No. Completing a Program	No. Completing a Preliminary Year
Radiation oncology	130	0
Radiology, diagnostic	1013	0
Abdominal radiology	29	0
Cardiothoracic radiology	1	0
Endovascular surgical neuroradiology	4	0
Musculoskeletal radiology	15	0
Neuroradiology	173	0
Nuclear radiology	11	0
Pediatric radiology	45	0
Vascular and interventional radiology	106	0
Surgery, general	1090	1225
Hand surgery	10	0
Pediatric surgery	24	0
Surgical critical care	106	0
Vascular surgery	104	0
Thoracic surgery	131	0
Urology	239	0
Pediatric urology	16	0
Transitional year	0	1206
Combined Specialties		
Internal medicine/dermatology	2	0
Internal medicine/emergency medicine	15	0
Internal medicine/family medicine	3	0
Internal medicine/neurology	4	0
Internal medicine/pediatrics	340	2
Internal medicine/preventive medicine	7	0
Internal medicine/psychiatry	24	0
Neurology/diagnostic radiology/neuroradiology	2	0
Pediatrics/emergency medicine	2	0
Pediatrics/medical genetics	7	0
Pediatrics/physical medicine and rehabilitation	2	0
Pediatrics/psychiatry/child and adolescent psychiatry	12	0
Psychiatry/family medicine	10	0
Psychiatry/neurology	2	0
Total	31 144	4658

Table 10. Total Program Size and Number of First-Year Positions Available in ACGME-Accredited and in Combined Specialty Programs for the Next Academic Year (2007-2008) as Projected by Program Directors

Specialty/Subspecialty	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of Graduate Year 1 Positions ^b
Allergy and immunology	306	142	0
Anesthesiology	5355	1116	525
Adult cardiothoracic anesthesiology	0	0	0
Critical care medicine	129	129	0
Pain medicine	264	264	0
Pediatric anesthesiology	166	166	0
Colon and rectal surgery	76	76	0
Dermatology	1073	353	16
Dermatopathology	71	68	0
Procedural dermatology	35	35	0
Emergency medicine	4525	1447	1310
Medical toxicology	71	38	0
Pediatric emergency medicine	47	19	0
Sports medicine	5	5	0
Undersea and hyperbaric medicine	4	4	0
Family medicine	9934	3307	3307
Geriatric medicine	80	78	0
Sports medicine	134	132	0
Internal medicine	22 629	8892	8892
Cardiovascular disease	2380	786	0
Clinical cardiac electrophysiology	199	189	0
Critical care medicine	169	105	0
Endocrinology, diabetes, and metabolism	552	245	0
Gastroenterology	1283	429	0
Geriatric medicine	425	390	0
Hematology	50	23	0
Hematology and oncology	1328	437	0
Infectious disease	725	348	0
Interventional cardiology	308	303	0
Nephrology	839	414	0
Oncology	123	61	0
Pulmonary disease	87	45	0
Pulmonary disease and critical care medicine	1251	406	0
Rheumatology	396	189	0
Sports medicine	1	1	0
Medical genetics	149	65	2
Molecular genetic pathology	24	23	0
Neurological surgery	913	164	33
Neurology	1743	521	124
Child neurology	294	101	0
Clinical neurophysiology	242	240	0
Neurodevelopmental disabilities	35	9	0
Neuromuscular medicine	16	16	0
Pain medicine	4	4	0
Vascular neurology	55	55	0
Nuclear medicine	190	114	0
Obstetrics and gynecology	4867	1236	1236
Ophthalmology	1369	449	0
Orthopedic surgery	3290	653	637
Adult reconstructive orthopedics	36	36	0
Foot and ankle orthopedics	14	14	0
Hand surgery	115	115	0

(continued)

Table 10. Total Program Size and Number of First-Year Positions Available in ACGME-Accredited and in Combined Specialty Programs for the Next Academic Year (2007-2008) as Projected by Program Directors (cont)

Specialty/Subspecialty (cont)	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of Graduate Year 1 Positions ^b
Orthopedic surgery (cont)			
Musculoskeletal oncology	16	13	0
Orthopedic sports medicine	158	155	0
Orthopedic surgery of the spine	27	27	0
Orthopedic trauma	11	11	0
Pediatric orthopedics	32	32	0
Otolaryngology	1360	280	280
Neurotology	26	14	0
Pediatric otolaryngology	17	10	0
Pathology, anatomic and clinical	2374	593	593
Blood banking/transfusion medicine	62	60	0
Chemical pathology	3	3	0
Cytopathology	140	140	0
Forensic pathology	61	61	0
Hematology	125	118	0
Medical microbiology	14	14	0
Neuropathology	62	37	0
Pediatric pathology	35	31	0
Selective pathology	128	128	0
Pediatrics	8105	2724	2724
Adolescent medicine	79	28	0
Developmental-behavioral pediatrics	87	32	0
Neonatal-perinatal medicine	635	216	0
Pediatric cardiology	338	113	0
Pediatric critical care medicine	380	126	0
Pediatric emergency medicine	256	86	0
Pediatric endocrinology	244	84	0
Pediatric gastroenterology	218	75	0
Pediatric hematology/oncology	375	133	0
Pediatric infectious diseases	213	78	0
Pediatric nephrology	133	44	0
Pediatric pulmonology	155	59	0
Pediatric rheumatology	74	25	0
Pediatric sports medicine	14	11	0
Physical medicine and rehabilitation	1249	347	85
Pain medicine	27	27	0
Pediatric rehabilitation medicine	11	7	0
Spinal cord injury medicine	27	27	0
Plastic surgery	628	187	50
Craniofacial surgery	5	5	0
Hand surgery	20	20	0
Preventive medicine	551	290	12
Medical toxicology	13	8	0
Undersea and hyperbaric medicine	2	2	0
Psychiatry	5128	1265	1265
Addiction psychiatry	96	90	0
Child and adolescent psychiatry	826	414	0
Forensic psychiatry	92	91	0
Geriatric psychiatry	136	136	0
Pain medicine	1	1	0
Psychosomatic medicine	52	52	0
Radiation oncology	580	138	0

(continued)

Table 10. Total Program Size and Number of First-Year Positions Available in ACGME-Accredited and in Combined Specialty Programs for the Next Academic Year (2007-2008) as Projected by Program Directors (cont)

Specialty/Subspecialty (cont)	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of Graduate Year 1 Positions ^b
Radiology, diagnostic	4418	1098	65
Abdominal radiology	50	50	0
Cardiothoracic radiology	2	2	0
Endovascular surgical neuroradiology	5	4	0
Musculoskeletal radiology	27	27	0
Neuroradiology	292	260	0
Nuclear radiology	31	31	0
Pediatric radiology	92	90	0
Vascular and interventional radiology	245	239	0
Sleep medicine ^c	75	73	0
Surgery, general	7669	2704	2704
Hand surgery	8	8	0
Pediatric surgery	62	31	0
Surgical critical care	175	164	0
Vascular surgery	207	121	0
Vascular surgery-integrated	0	0	0
Thoracic surgery	300	131	0
Urology	1036	253	0
Pediatric urology	29	21	0
Transitional year	1294	1294	1294
Combined Specialties			
Emergency medicine/family medicine	0	0	0
Internal medicine/dermatology	14	5	5
Internal medicine/emergency medicine	118	25	25
Internal medicine/emergency medicine/critical care medicine	4	0	0
Internal medicine/family medicine	19	5	5
Internal medicine/medical genetics	19	5	5
Internal medicine/neurology	29	8	8
Internal medicine/nuclear medicine	0	0	0
Internal medicine/pediatrics	1521	389	389
Internal medicine/physical medicine and rehabilitation	1	1	1
Internal medicine/preventive medicine	29	8	8
Internal medicine/psychiatry	135	30	30
Neurology/diagnostic radiology/neuroradiology	14	2	2
Pediatrics/dermatology	4	2	2
Pediatrics/emergency medicine	27	6	6
Pediatrics/medical genetics	30	11	11
Pediatrics/physical medicine and rehabilitation	15	4	4
Pediatrics/psychiatry/child and adolescent psychiatry	104	22	22
Psychiatry/family medicine	78	15	15
Psychiatry/neurology	37	9	9
Total	111 992	40 273	25 701

Abbreviation: ACGME, Accreditation Council for Graduate Medical Education.

^aProgram year 1 refers to the first year of training within a specific program; this may not correspond to the graduate year.^bGraduate year 1 (GY1) refers to positions available the first year after completing medical school. Although residents in GY1 positions are not required to have prior GME, some residents who fill these positions have had prior training.^cSleep medicine is a subspecialty of internal medicine, pediatrics, psychiatry, neurology or otolaryngology.