

Graduate Medical Education, 2016-2017

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The American Medical Association (AMA) and the Association of American Medical Colleges (AAMC) sponsor and administer the National GME Census through GME Track, an internet-based AAMC product, and jointly maintain a database of information on training programs accredited by the Accreditation Council for Graduate Medical Education (ACGME) and of the residents and fellows in those programs.

From May until December 2016, all directors of programs accredited by the ACGME were asked to complete the program survey component of the Census on GME Track. Information on the educational characteristics of the training programs was added to FREIDA Online, the AMA Residency & Fellowship Database, a public information source on GME programs that is available to medical students, residents, and fellows. Beginning in late July 2016, program directors were surveyed about their active, transferred, and graduated residents and fellows for academic year 2016-2017.

Program directors were provided with lists of residents and fellows from the current database and were asked to (1) confirm or modify the training status of trainees who were present in their programs the prior year; (2) add new physicians to their program who were not already in the database; and (3) confirm, edit, or add demographic information on all trainees. This demographic information includes sex, birthdate, country of birth, citizenship status, race, and Hispanic ethnicity. Information on race and Hispanic ethnicity for residents and fellows who had provided such information through various AAMC applications (eg, the

Electronic Residency Application Service) was carried forward from those applications and included in the Census.

We surveyed 10 343 active programs, of which 9899 (95.7%) completed the program survey and 9005 (87.1%) confirmed the status of all their active physicians-in-training, accounting for 120 410 (97.0%) active trainees. An additional 21 programs (0.2%) confirmed some but not all of their trainees (n = 153 individuals, 0.1%), 377 confirmed that they did not have any trainees (3.6%), 492 programs (4.8%) confirmed the status of nonactive trainees (graduates and transfers) but did not have any currently active trainees, and 448 programs (4.3%) did not confirm the status of any physician training in the program (including 243 programs that apparently did not have any active trainees).

A total of 96.7% of all physicians in our database had their status confirmed (eg, active, graduated, transferred, or withdrawn). Physicians whose status was not confirmed were “advanced” into the next year of training (n = 3533 [2.8% of active residents]) or “graduated” based on expected graduation date (n = 1223 [2.9% of graduated residents and fellows]). In total, we estimate that there were 124 096 active residents in ACGME-accredited programs during the 2016-2017 academic year. The following tables include data from these surveys.

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Table 1. ACGME-Accredited and Combined Specialty GME Programs and Resident Physicians According to Medical School of Graduation and Specialty and Subspecialty, 2011-2016

	No. (%)					
	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
No. of programs	9111	9384	9613	9768	9957	10 343
No. of residents						
Total	113 427	115 111	117 427	118 366	120 598	124 096
GY1	26 263	26 018	26 649	27 122	27 949	28 658
GY1 residents with no prior GME	25 538	25 229	25 991	26 145	27 297	27 938
Medical school of graduation						
USMDs	74 328 (65.6)	74 963 (65.1)	77 118 (65.7)	78 206 (66.1)	80 084 (66.4)	81 849 (66.0)
IMGs	30 300 (26.7)	30 741 (26.7)	30 397 (25.9)	29 908 (25.3)	29 654 (24.5)	29 719 (23.9)
DOs	8615 (7.6)	9229 (8.0)	9727 (8.3)	10 099 (8.5)	10 715 (8.9)	12 378 (10.0)
Canadian	184 (0.2)	178 (0.2)	174 (0.1)	153 (0.1)	145 (0.1)	150 (0.1)
Unknown/other	0	0	11 (<0.1)	0	0	0
Specialties						
Programs	4152 (45.6)	4207 (44.8)	4239 (44.1)	4286 (43.9)	4349 (43.7)	4642 (44.9)
Residents	94 486 (83.3)	94 990 (82.5)	96 580 (82.2)	97 587 (82.4)	99 514 (82.5)	102 833 (82.9)

(continued)

Table 1. ACGME-Accredited and Combined Specialty GME Programs and Resident Physicians According to Medical School of Graduation and Specialty and Subspecialty, 2011-2016 (continued)

	No. (%)					
	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Subspecialties						
Programs	4959 (54.4)	5180 (55.2)	5374 (55.9)	5482 (56.1)	5608 (56.3)	5701 (55.1)
Residents	18 941 (16.7)	20 121 (17.5)	20 847 (17.8)	20 779 (17.6)	21 084 (17.5)	21 263 (17.1)

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.

Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty GME Programs, December 31, 2016

Specialty/Subspecialty	Total No. of Programs ^a	Resident Physicians, No. (%) ^b					
		Total	Female	USMD	IMG	Canadian	Osteopathic
Allergy and immunology	78	271 (0.2)	191 (70.5)	202 (74.5)	49 (18.1)	1 (0.4)	19 (7.0)
Anesthesiology	138	5740 (4.6)	2031 (35.4)	4403 (76.7)	676 (11.8)	4 (0.1)	657 (11.4)
Adult cardiothoracic anesthesiology	63	182 (0.1)	57 (31.3)	134 (73.6)	24 (13.2)	0	24 (13.2)
Clinical informatics	1	0	0	0	0	0	0
Critical care medicine	56	168 (0.1)	47 (28.0)	129 (76.8)	33 (19.6)	0	6 (3.6)
Obstetric anesthesiology	31	28 (<0.1)	17 (60.7)	22 (78.6)	4 (14.3)	1 (3.6)	1 (3.6)
Pediatric anesthesiology	58	193 (0.2)	101 (52.3)	146 (75.6)	21 (10.9)	2 (1.0)	24 (12.4)
Colon and rectal surgery	57	79 (0.1)	33 (41.8)	66 (83.5)	11 (13.9)	2 (2.5)	0
Dermatology	122	1328 (1.1)	858 (64.6)	1236 (93.1)	45 (3.4)	0	47 (3.5)
Dermatopathology	53	69 (0.1)	37 (53.6)	48 (69.6)	16 (23.2)	0	5 (7.2)
Micrographic surgery and dermatologic oncology	73	72 (0.1)	37 (51.4)	69 (95.8)	1 (1.4)	1 (1.4)	1 (1.4)
Emergency medicine	191	6377 (5.1)	2238 (35.1)	5035 (79.0)	350 (5.5)	3 (<0.1)	989 (15.5)
Clinical informatics	3	5 (<0.1)	1 (20.0)	4 (80.0)	1 (20.0)	0	0
Emergency medical services	53	53 (<0.1)	24 (45.3)	40 (75.5)	4 (7.5)	0	9 (17.0)
Medical toxicology	26	59 (<0.1)	23 (39.0)	43 (72.9)	10 (16.9)	1 (1.7)	5 (8.5)
Pediatric emergency medicine	25	115 (0.1)	76 (66.1)	63 (54.8)	36 (31.3)	0	16 (13.9)
Sports medicine	7	10 (<0.1)	1 (10.0)	6 (60.0)	2 (20.0)	0	2 (20.0)
Undersea and hyperbaric medicine	7	10 (<0.1)	3 (30.0)	6 (60.0)	1 (10.0)	1 (10.0)	2 (20.0)
Family medicine	512	10 689 (8.6)	5857 (54.8)	5156 (48.2)	3296 (30.8)	5 (<0.1)	2232 (20.9)
Clinical informatics	2	6 (<0.1)	1 (16.7)	6 (100.0)	0	0	0
Geriatric medicine	43	41 (<0.1)	29 (70.7)	17 (41.5)	16 (39.0)	0	8 (19.5)
Sports medicine	130	186 (0.1)	53 (28.5)	87 (46.8)	46 (24.7)	0	53 (28.5)
Hospice and palliative medicine ^c	121	253 (0.2)	167 (66.0)	129 (51.0)	67 (26.5)	1 (0.4)	56 (22.1)
Internal medicine	446	24 640 (19.9)	10 550 (42.8)	12 887 (52.3)	9452 (38.4)	8 (<0.1)	2293 (9.3)
Adult congenital heart disease	7	10 (<0.1)	4 (40.0)	7 (70.0)	2 (20.0)	0	1 (10.0)
Advanced heart failure and transplant cardiology	69	83 (0.1)	23 (27.7)	51 (61.4)	25 (30.1)	1 (1.2)	6 (7.2)
Cardiovascular disease	203	2616 (2.1)	557 (21.3)	1378 (52.7)	1095 (41.9)	6 (0.2)	137 (5.2)
Clinical cardiac electrophysiology	103	167 (0.1)	25 (15.0)	87 (52.1)	75 (44.9)	0	5 (3.0)
Clinical informatics	11	20 (<0.1)	0	16 (80.0)	4 (20.0)	0	0
Critical care medicine	33	208 (0.2)	61 (29.3)	69 (33.2)	120 (57.7)	2 (1.0)	17 (8.2)
Endocrinology, diabetes, and metabolism	138	637 (0.5)	454 (71.3)	272 (42.7)	318 (49.9)	0	47 (7.4)
Gastroenterology	171	1505 (1.2)	512 (34.0)	953 (63.3)	473 (31.4)	1 (0.1)	78 (5.2)
Geriatric medicine	106	221 (0.2)	150 (67.9)	89 (40.3)	109 (49.3)	0	23 (10.4)
Hematology	2	21 (<0.1)	7 (33.3)	16 (76.2)	5 (23.8)	0	0
Hematology and medical oncology	146	1657 (1.3)	711 (42.9)	878 (53.0)	697 (42.1)	4 (0.2)	78 (4.7)
Infectious disease	146	724 (0.6)	395 (54.6)	355 (49.0)	313 (43.2)	1 (0.1)	55 (7.6)
Interventional cardiology	147	292 (0.2)	29 (9.9)	127 (43.5)	153 (52.4)	1 (0.3)	11 (3.8)
Nephrology	148	848 (0.7)	292 (34.4)	215 (25.4)	558 (65.8)	0	75 (8.8)
Medical oncology	7	55 (<0.1)	19 (34.5)	31 (56.4)	22 (40.0)	0	2 (3.6)
Pulmonary disease	20	62 (<0.1)	23 (37.1)	6 (9.7)	55 (88.7)	0	1 (1.6)
Pulmonary disease and critical care medicine	149	1621 (1.3)	528 (32.6)	814 (50.2)	672 (41.5)	1 (0.1)	134 (8.3)
Rheumatology	113	457 (0.4)	275 (60.2)	182 (39.8)	224 (49.0)	1 (0.2)	50 (10.9)
Transplant hepatology	49	36 (<0.1)	16 (44.4)	22 (61.1)	13 (36.1)	0	1 (2.8)

(continued)

Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty GME Programs, December 31, 2016 (continued)

Specialty/Subspecialty	Total No. of Programs ^a	Resident Physicians, No. (%) ^b					
		Total	Female	USMD	IMG	Canadian	Osteopathic
Medical genetics and genomics	45	75 (0.1)	50 (66.7)	41 (54.7)	30 (40.0)	1 (1.3)	3 (4.0)
Medical biochemical genetics	15	11 (<0.1)	7 (63.6)	3 (27.3)	8 (72.7)	0	0
Molecular genetic pathology	39	51 (<0.1)	16 (31.4)	33 (64.7)	16 (31.4)	0	2 (3.9)
Neurological surgery	108	1367 (1.1)	242 (17.7)	1259 (92.1)	100 (7.3)	2 (0.1)	6 (0.4)
Endovascular surgical neuroradiology	2	1 (<0.1)	0	0	1 (100.0)	0	0
Neurology	138	2430 (2.0)	1049 (43.2)	1367 (56.3)	846 (34.8)	0	217 (8.9)
Brain injury medicine	1	0	0	0	0	0	0
Child neurology	73	364 (0.3)	247 (67.9)	259 (71.2)	84 (23.1)	0	21 (5.8)
Clinical neurophysiology	94	158 (0.1)	80 (50.6)	77 (48.7)	73 (46.2)	1 (0.6)	7 (4.4)
Endovascular surgical neuroradiology	1	2 (<0.1)	0	2 (100.0)	0	0	0
Epilepsy	43	66 (0.1)	33 (50.0)	37 (56.1)	23 (34.8)	1 (1.5)	5 (7.6)
Neurodevelopmental disabilities	8	27 (<0.1)	20 (74.1)	23 (85.2)	4 (14.8)	0	0
Neuromuscular medicine	46	54 (<0.1)	36 (66.7)	32 (59.3)	18 (33.3)	1 (1.9)	3 (5.6)
Vascular neurology	86	111 (0.1)	39 (35.1)	50 (45.0)	51 (45.9)	3 (2.7)	7 (6.3)
Nuclear medicine	42	69 (0.1)	22 (31.9)	17 (24.6)	50 (72.5)	0	2 (2.9)
Obstetrics and gynecology	256	5143 (4.1)	4251 (82.7)	4035 (78.5)	541 (10.5)	1 (<0.1)	566 (11.0)
Female pelvic medicine and reconstructive surgery	50	132 (0.1)	110 (83.3)	104 (78.8)	15 (11.4)	0	13 (9.8)
Gynecologic oncology	21	71 (0.1)	54 (76.1)	68 (95.8)	2 (2.8)	1 (1.4)	0
Maternal-fetal medicine	12	48 (<0.1)	32 (66.7)	39 (81.3)	8 (16.7)	0	1 (2.1)
Reproductive endocrinology and infertility	7	21 (<0.1)	15 (71.4)	18 (85.7)	2 (9.5)	0	1 (4.8)
Ophthalmology	116	1326 (1.1)	551 (41.6)	1234 (93.1)	62 (4.7)	1 (0.1)	29 (2.2)
Ophthalmic plastic and reconstructive surgery	5	6 (<0.1)	2 (33.3)	6 (100.0)	0	0	0
Orthopedic surgery	163	3707 (3.0)	550 (14.8)	3560 (96.0)	63 (1.7)	0	84 (2.3)
Adult reconstructive orthopedics	23	39 (<0.1)	3 (7.7)	28 (71.8)	4 (10.3)	2 (5.1)	5 (12.8)
Foot and ankle orthopedics	6	15 (<0.1)	3 (20.0)	11 (73.3)	1 (6.7)	1 (6.7)	2 (13.3)
Hand surgery	67	120 (0.1)	33 (27.5)	111 (92.5)	3 (2.5)	3 (2.5)	3 (2.5)
Musculoskeletal oncology	11	13 (<0.1)	7 (53.8)	9 (69.2)	4 (30.8)	0	0
Orthopedic sports medicine	94	162 (0.1)	17 (10.5)	131 (80.9)	8 (4.9)	7 (4.3)	16 (9.9)
Orthopedic surgery of the spine	16	29 (<0.1)	2 (6.9)	23 (79.3)	5 (17.2)	1 (3.4)	0
Orthopedic trauma	9	13 (<0.1)	0	10 (76.9)	3 (23.1)	0	0
Pediatric orthopedics	25	32 (<0.1)	12 (37.5)	21 (65.6)	6 (18.8)	3 (9.4)	2 (6.3)
Osteopathic neuromusculoskeletal medicine	3	2 (<0.1)	0	0	0	0	2 (100.0)
Otolaryngology	106	1523 (1.2)	528 (34.7)	1491 (97.9)	27 (1.8)	0	5 (0.3)
Neurotology	20	26 (<0.1)	6 (23.1)	26 (100.0)	0	0	0
Pediatric otolaryngology	22	34 (<0.1)	18 (52.9)	27 (79.4)	3 (8.8)	4 (11.8)	0
Pain medicine ^d	100	290 (0.2)	64 (22.1)	197 (67.9)	50 (17.2)	1 (0.3)	42 (14.5)
Pathology-anatomic and clinical	142	2257 (1.8)	1126 (49.9)	1159 (51.4)	891 (39.5)	4 (0.2)	203 (9.0)
Blood banking/transfusion medicine	48	52 (<0.1)	28 (53.8)	28 (53.8)	21 (40.4)	0	3 (5.8)
Clinical informatics	3	9 (<0.1)	1 (11.1)	5 (55.6)	2 (22.2)	0	2 (22.2)
Chemical pathology	3	2 (<0.1)	1 (50.0)	2 (100.0)	0	0	0
Cytopathology	91	131 (0.1)	81 (61.8)	59 (45.0)	62 (47.3)	0	10 (7.6)
Forensic pathology	39	35 (<0.1)	22 (62.9)	25 (71.4)	5 (14.3)	0	5 (14.3)
Hematology	85	121 (0.1)	64 (52.9)	60 (49.6)	51 (42.1)	0	10 (8.3)
Medical microbiology	15	13 (<0.1)	4 (30.8)	4 (30.8)	8 (61.5)	0	1 (7.7)
Neuropathology	33	52 (<0.1)	25 (48.1)	32 (61.5)	12 (23.1)	0	8 (15.4)
Pediatric pathology	26	22 (<0.1)	14 (63.6)	14 (63.6)	7 (31.8)	0	1 (4.5)
Selective pathology	82	144 (0.1)	82 (56.9)	47 (32.6)	84 (58.3)	3 (2.1)	10 (6.9)

(continued)

Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty GME Programs, December 31, 2016 (continued)

Specialty/Subspecialty	Total No. of Programs ^a	Resident Physicians, No. (%) ^b					
		Total	Female	USMD	IMG	Canadian	Osteopathic
Pediatrics	204	8798 (7.1)	6401 (72.8)	6109 (69.4)	1614 (18.3)	4 (<0.1)	1071 (12.2)
Adolescent medicine	28	87 (0.1)	71 (81.6)	70 (80.5)	10 (11.5)	1 (1.1)	6 (6.9)
Child abuse pediatrics	28	39 (<0.1)	36 (92.3)	31 (79.5)	5 (12.8)	0	3 (7.7)
Clinical informatics	4	5 (<0.1)	1 (20.0)	4 (80.0)	0	0	1 (20.0)
Developmental-behavioral pediatrics	38	95 (0.1)	79 (83.2)	55 (57.9)	24 (25.3)	0	16 (16.8)
Neonatal-perinatal medicine	98	723 (0.6)	516 (71.4)	407 (56.3)	225 (31.1)	0	91 (12.6)
Pediatric cardiology	59	440 (0.4)	220 (50.0)	312 (70.9)	101 (23.0)	4 (0.9)	23 (5.2)
Pediatric critical care medicine	67	493 (0.4)	317 (64.3)	334 (67.7)	109 (22.1)	3 (0.6)	47 (9.5)
Pediatric emergency medicine	52	378 (0.3)	260 (68.8)	282 (74.6)	57 (15.1)	0	39 (10.3)
Pediatric endocrinology	70	239 (0.2)	179 (74.9)	124 (51.9)	105 (43.9)	1 (0.4)	9 (3.8)
Pediatric gastroenterology	61	277 (0.2)	184 (66.4)	165 (59.6)	86 (31.0)	0	26 (9.4)
Pediatric hematology/oncology	72	482 (0.4)	337 (69.9)	324 (67.2)	106 (22.0)	2 (0.4)	50 (10.4)
Pediatric infectious diseases	64	171 (0.1)	113 (66.1)	104 (60.8)	59 (34.5)	0	8 (4.7)
Pediatric nephrology	45	107 (0.1)	78 (72.9)	57 (53.3)	46 (43.0)	0	4 (3.7)
Pediatric pulmonology	54	156 (0.1)	97 (62.2)	92 (59.0)	52 (33.3)	0	12 (7.7)
Pediatric rheumatology	36	82 (0.1)	63 (76.8)	49 (59.8)	27 (32.9)	0	6 (7.3)
Pediatric sports medicine	18	25 (<0.1)	14 (56.0)	18 (72.0)	3 (12.0)	1 (4.0)	3 (12.0)
Pediatric transplant hepatology	11	8 (<0.1)	6 (75.0)	6 (75.0)	2 (25.0)	0	0
Physical medicine and rehabilitation	83	1256 (1.0)	494 (39.3)	697 (55.5)	163 (13.0)	1 (0.1)	395 (31.4)
Brain injury medicine	9	5 (<0.1)	1 (20.0)	3 (60.0)	1 (20.0)	0	1 (20.0)
Pediatric rehabilitation	20	26 (<0.1)	21 (80.8)	17 (65.4)	6 (23.1)	0	3 (11.5)
Spinal cord injury medicine	21	16 (<0.1)	7 (43.8)	11 (68.8)	2 (12.5)	0	3 (18.8)
Sports medicine	17	18 (<0.1)	6 (33.3)	9 (50.0)	2 (11.1)	0	7 (38.9)
Plastic surgery	68	306 (0.2)	91 (29.7)	242 (79.1)	58 (19.0)	0	6 (2.0)
Craniofacial surgery	10	8 (<0.1)	5 (62.5)	6 (75.0)	1 (12.5)	1 (12.5)	0
Hand surgery	16	21 (<0.1)	8 (38.1)	19 (90.5)	1 (4.8)	1 (4.8)	0
Plastic surgery-integrated ^e	72	753 (0.6)	310 (41.2)	715 (95.0)	34 (4.5)	0	4 (0.5)
Preventive medicine	76	305 (0.2)	147 (48.2)	213 (69.8)	52 (17.0)	0	40 (13.1)
Medical toxicology	1	5 (<0.1)	2 (40.0)	5 (100.0)	0	0	0
Undersea and hyperbaric medicine	1	3 (<0.1)	0	2 (66.7)	1 (33.3)	0	0
Psychiatry	209	5285 (4.3)	2744 (51.9)	3127 (59.2)	1500 (28.4)	2 (<0.1)	656 (12.4)
Addiction psychiatry	46	68 (0.1)	23 (33.8)	35 (51.5)	28 (41.2)	0	5 (7.4)
Child and adolescent psychiatry	129	801 (0.6)	507 (63.3)	418 (52.2)	276 (34.5)	0	107 (13.4)
Forensic psychiatry	44	51 (<0.1)	19 (37.3)	30 (58.8)	15 (29.4)	1 (2.0)	5 (9.8)
Geriatric psychiatry	57	47 (<0.1)	30 (63.8)	21 (44.7)	20 (42.6)	0	6 (12.8)
Psychosomatic medicine	58	65 (0.1)	34 (52.3)	34 (52.3)	21 (32.3)	2 (3.1)	8 (12.3)
Radiation oncology	91	720 (0.6)	214 (29.7)	696 (96.7)	10 (1.4)	0	14 (1.9)
Radiology-diagnostic	189	4476 (3.6)	1163 (26.0)	3449 (77.1)	596 (13.3)	3 (0.1)	428 (9.6)
Abdominal radiology	12	36 (<0.1)	12 (33.3)	24 (66.7)	6 (16.7)	5 (13.9)	1 (2.8)
Endovascular surgical neuroradiology	4	7 (<0.1)	1 (14.3)	3 (42.9)	4 (57.1)	0	0
Musculoskeletal radiology	16	21 (<0.1)	2 (9.5)	20 (95.2)	1 (4.8)	0	0
Neuroradiology	86	241 (0.2)	49 (20.3)	195 (80.9)	33 (13.7)	6 (2.5)	7 (2.9)
Nuclear radiology	18	9 (<0.1)	2 (22.2)	5 (55.6)	3 (33.3)	0	1 (11.1)
Pediatric radiology	46	60 (<0.1)	26 (43.3)	43 (71.7)	12 (20.0)	1 (1.7)	4 (6.7)
Vascular and interventional radiology	93	241 (0.2)	40 (16.6)	192 (79.7)	27 (11.2)	0	22 (9.1)
Interventional radiology-integrated ^e	61	8 (<0.1)	2 (25.0)	7 (87.5)	1 (12.5)	0	0
Sleep medicine ^f	83	146 (0.1)	62 (42.5)	55 (37.7)	85 (58.2)	0	6 (4.1)
Surgery-general	273	8458 (6.8)	3249 (38.4)	6783 (80.2)	1271 (15.0)	0	404 (4.8)
Complex general surgical oncology	22	106 (0.1)	42 (39.6)	83 (78.3)	14 (13.2)	6 (5.7)	3 (2.8)
Hand surgery	1	8 (<0.1)	2 (25.0)	6 (75.0)	0	2 (25.0)	0
Pediatric surgery	48	82 (0.1)	33 (40.2)	75 (91.5)	7 (8.5)	0	0
Surgical critical care	114	253 (0.2)	111 (43.9)	189 (74.7)	33 (13.0)	5 (2.0)	26 (10.3)
Vascular surgery	105	232 (0.2)	68 (29.3)	164 (70.7)	49 (21.1)	2 (0.9)	17 (7.3)
Vascular surgery-integrated ^e	53	273 (0.2)	99 (36.3)	238 (87.2)	23 (8.4)	0	12 (4.4)

(continued)

Table 2. Resident Physicians on Duty in ACGME-Accredited and in Combined Specialty GME Programs, December 31, 2016 (continued)

Specialty/Subspecialty	Total No. of Programs ^a	Resident Physicians, No. (%) ^b					
		Total	Female	USMD	IMG	Canadian	Osteopathic
Thoracic surgery	66	214 (0.2)	48 (22.4)	163 (76.2)	35 (16.4)	4 (1.9)	12 (5.6)
Congenital cardiac surgery	12	5 (<0.1)	2 (40.0)	3 (60.0)	2 (40.0)	0	0
Thoracic surgery-integrated ^e	27	176 (0.1)	46 (26.1)	159 (90.3)	11 (6.3)	0	6 (3.4)
Urology	134	1294 (1.0)	333 (25.7)	1179 (91.1)	49 (3.8)	1 (0.1)	65 (5.0)
Female pelvic medicine and reconstructive surgery	11	30 (<0.1)	19 (63.3)	28 (93.3)	1 (3.3)	1 (3.3)	0
Pediatric urology	28	42 (<0.1)	22 (52.4)	41 (97.6)	0	0	1 (2.4)
Transitional year	106	977 (0.8)	331 (33.9)	817 (83.6)	93 (9.5)	0	67 (6.9)
Combined Specialties							
Diagnostic radiology/nuclear medicine	3	4 (<0.1)	2 (50.0)	3 (75.0)	1 (25.0)	0	0
Emergency medicine/family medicine	2	20 (<0.1)	8 (40.0)	13 (65.0)	6 (30.0)	0	1 (5.0)
Family medicine/preventive medicine	3	20 (<0.1)	8 (40.0)	12 (60.0)	3 (15.0)	0	5 (25.0)
Internal medicine/anesthesiology	5	17 (<0.1)	8 (47.1)	16 (94.1)	1 (5.9)	0	0
Internal medicine/dermatology	7	35 (<0.1)	21 (60.0)	35 (100.0)	0	0	0
Internal medicine/emergency medicine	12	122 (0.1)	38 (31.1)	106 (86.9)	6 (4.9)	0	10 (8.2)
Internal medicine/emergency medicine/critical care medicine	5	17 (<0.1)	5 (29.4)	15 (88.2)	1 (5.9)	0	1 (5.9)
Internal medicine/family medicine	2	12 (<0.1)	4 (33.3)	9 (75.0)	3 (25.0)	0	0
Internal medicine/medical genetics and genomics	5	6 (<0.1)	3 (50.0)	4 (66.7)	2 (33.3)	0	0
Internal medicine/neurology	2	3 (<0.1)	1 (33.3)	2 (66.7)	0	0	1 (33.3)
Internal medicine/pediatrics	79	1466 (1.2)	849 (57.9)	1246 (85.0)	107 (7.3)	0	113 (7.7)
Internal medicine/preventive medicine	6	30 (<0.1)	16 (53.3)	16 (53.3)	14 (46.7)	0	0
Internal medicine/psychiatry	14	92 (0.1)	48 (52.2)	67 (72.8)	21 (22.8)	0	4 (4.3)
Pediatrics/anesthesiology	7	40 (<0.1)	22 (55.0)	39 (97.5)	0	1 (2.5)	0
Pediatrics/emergency medicine	4	38 (<0.1)	20 (52.6)	30 (78.9)	7 (18.4)	0	1 (2.6)
Pediatrics/medical genetics and genomics	16	50 (<0.1)	34 (68.0)	38 (76.0)	11 (22.0)	0	1 (2.0)
Pediatrics/physical medicine and rehabilitation	3	12 (<0.1)	8 (66.7)	9 (75.0)	0	0	3 (25.0)
Pediatrics/psychiatry/child and adolescent psychiatry	9	92 (0.1)	70 (76.1)	79 (85.9)	8 (8.7)	0	5 (5.4)
Psychiatry/family medicine	5	50 (<0.1)	35 (70.0)	45 (90.0)	0	0	5 (10.0)
Psychiatry/neurology	5	21 (<0.1)	8 (38.1)	15 (71.4)	2 (9.5)	0	4 (19.0)
Total	10 343	124 096 (100.0)	56 667 (45.7)	81 849 (66.0)	29 719 (23.9)	150 (0.1)	12 378 (10.0)

Abbreviations: ACGME, Accreditation Council for Graduate Medical Education; GME, graduate medical education; IMG, international medical graduate; USMD, US allopathic medical graduate.

^a Total number of US GME programs accredited by the ACGME and combined specialty programs, as of December 31, 2016, surveyed by National GME Census during 2016.

^b Includes resident physicians on duty as of December 31, 2016, reported through the 2016 National GME Census. A total of 205 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

^c Hospice and palliative medicine is a subspecialty of anesthesiology, family medicine, internal medicine, pediatrics, psychiatry, or radiation oncology.

^d Pain medicine is a subspecialty of anesthesiology, neurology, physical medicine and rehabilitation, or psychiatry.

^e Integrated programs differ from subspecialty programs in that they include core surgical education.

^f Sleep medicine is a subspecialty of anesthesiology, family medicine, internal medicine, neurology, otolaryngology, pediatrics, or psychiatry.

Table 3. Total Number of Resident Physicians in Program Year 1 Positions and in Graduate Year 1 (GY1) Positions on Duty December 31, 2016, 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 GY1 Positions	
			With Prior US GME ^c	Without Prior US GME ^c
Allergy and immunology	271	128	0	0
Anesthesiology	5740	1412	140	1018
Adult cardiothoracic anesthesiology	182	182	0	0
Critical care medicine	168	159	0	0
Obstetric anesthesiology	28	28	0	0
Pediatric anesthesiology	193	192	0	0
Colon and rectal surgery	79	79	0	0

(continued)

Table 3. Total Number of Resident Physicians in Program Year 1 Positions and in Graduate Year 1 (GY1) Positions on Duty December 31, 2016, in ACGME-Accredited Programs and in Combined Specialty Programs (continued)

Specialty/Subspecialty	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in GY1 Positions	
			With Prior US GME ^c	Without Prior US GME ^c
Dermatology	1328	428	14	0
Dermatopathology	69	69	0	0
Micrographic surgery and dermatologic oncology	72	71	0	0
Emergency medicine	6377	2026	80	1947
Clinical informatics	5	4	0	0
Emergency medical services	53	50	0	0
Medical toxicology	59	28	0	0
Pediatric emergency medicine	115	50	0	0
Sports medicine	10	10	0	0
Undersea and hyperbaric medicine	10	10	0	0
Family medicine	10 689	3602	79	3523
Clinical informatics	6	5	0	0
Geriatric medicine	41	40	0	0
Sports medicine	186	185	0	0
Hospice and palliative medicine ^d	253	248	0	0
Internal medicine	24 640	9475	111	9364
Adult congenital heart disease	10	7	0	0
Advanced heart failure and transplant cardiology	83	83	0	0
Cardiovascular disease	2616	845	0	0
Clinical cardiac electrophysiology	167	127	0	0
Clinical informatics	20	16	0	0
Critical care medicine	208	128	0	0
Endocrinology, diabetes, and metabolism	637	306	0	0
Gastroenterology	1505	505	0	0
Geriatric medicine	221	206	0	0
Hematology	21	10	0	0
Hematology and medical oncology	1657	540	0	0
Infectious disease	724	325	0	0
Interventional cardiology	292	278	0	0
Nephrology	848	410	0	0
Medical oncology	55	17	0	0
Pulmonary disease	62	29	0	0
Pulmonary disease and critical care medicine	1621	544	0	0
Rheumatology	457	233	0	0
Transplant hepatology	36	36	0	0
Medical genetics and genomics	75	32	0	0
Medical biochemical genetics	11	11	0	0
Molecular genetic pathology	51	51	0	0
Neurological surgery	1367	220	5	215
Endovascular surgical neuroradiology	1	1	0	0
Neurology	2430	715	52	353
Child neurology	364	105	0	4
Clinical neurophysiology	158	155	0	0
Endovascular surgical neuroradiology	2	2	0	0
Epilepsy	66	62	0	0
Neurodevelopmental disabilities	27	6	0	0
Neuromuscular medicine	54	53	0	0
Vascular neurology	111	107	0	0
Nuclear medicine	69	28	0	0

(continued)

Table 3. Total Number of Resident Physicians in Program Year 1 Positions and in Graduate Year 1 (GY1) Positions on Duty December 31, 2016, in ACGME-Accredited Programs and in Combined Specialty Programs (continued)

Specialty/Subspecialty	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in GY1 Positions	
			With Prior US GME ^c	Without Prior US GME ^c
Obstetrics and gynecology	5143	1303	28	1275
Female pelvic medicine and reconstructive surgery	132	44	0	0
Gynecologic oncology	71	35	0	0
Maternal-fetal medicine	48	18	0	0
Reproductive endocrinology and infertility	21	8	0	0
Ophthalmology	1326	412	0	3
Ophthalmic plastic and reconstructive surgery	6	3	0	0
Orthopedic surgery	3707	744	32	712
Adult reconstructive orthopedics	39	39	0	0
Foot and ankle orthopedics	15	15	0	0
Hand surgery	120	120	0	0
Musculoskeletal oncology	13	13	0	0
Orthopedic sports medicine	162	160	0	0
Orthopedic surgery of the spine	29	29	0	0
Orthopedic trauma	13	13	0	0
Pediatric orthopedics	32	32	0	0
Osteopathic neuromusculoskeletal medicine	2	2	0	0
Otolaryngology	1523	312	6	306
Neurotology	26	11	0	0
Pediatric otolaryngology	34	30	0	0
Pain medicine ^e	290	287	0	0
Pathology-anatomic and clinical	2257	575	23	552
Blood banking/transfusion medicine	52	50	0	0
Clinical informatics	9	6	0	0
Chemical pathology	2	2	0	0
Cytopathology	131	129	0	0
Forensic pathology	35	35	0	0
Hematology	121	118	0	0
Medical microbiology	13	13	0	0
Neuropathology	52	25	0	0
Pediatric pathology	22	21	0	0
Selective pathology	144	142	0	0
Pediatrics	8798	2932	31	2901
Adolescent medicine	87	33	0	0
Child abuse pediatrics	39	9	0	0
Clinical informatics	5	3	0	0
Developmental-behavioral pediatrics	95	31	0	0
Neonatal-perinatal medicine	723	240	0	0
Pediatric cardiology	440	152	0	0
Pediatric critical care medicine	493	163	0	0
Pediatric emergency medicine	378	136	0	0
Pediatric endocrinology	239	78	0	0
Pediatric gastroenterology	277	93	0	0
Pediatric hematology/oncology	482	161	0	0
Pediatric infectious diseases	171	62	0	0
Pediatric nephrology	107	38	0	0
Pediatric pulmonology	156	59	0	0
Pediatric rheumatology	82	30	0	0
Pediatric sports medicine	25	22	0	0
Pediatric transplant hepatology	8	8	0	0

(continued)

Table 3. Total Number of Resident Physicians in Program Year 1 Positions and in Graduate Year 1 (GY1) Positions on Duty December 31, 2016, in ACGME-Accredited Programs and in Combined Specialty Programs (continued)

Specialty/Subspecialty	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in GY1 Positions	
			With Prior US GME ^c	Without Prior US GME ^c
Physical medicine and rehabilitation	1256	359	49	90
Brain injury medicine	5	5	0	0
Pediatric rehabilitation	26	12	0	0
Spinal cord injury medicine	16	16	0	0
Sports medicine	18	18	0	0
Plastic surgery	306	80	0	0
Craniofacial surgery	8	8	0	0
Hand surgery	21	21	0	0
Plastic surgery-integrated	753	147	3	144
Preventive medicine	305	149	0	0
Medical toxicology	5	2	0	0
Undersea and hyperbaric medicine	3	3	0	0
Psychiatry	5285	1442	23	1419
Addiction psychiatry	68	66	0	0
Child and adolescent psychiatry	801	411	0	0
Forensic psychiatry	51	51	0	0
Geriatric psychiatry	47	41	0	0
Psychosomatic medicine	65	64	0	0
Radiation oncology	720	176	0	0
Radiology-diagnostic	4476	1104	13	29
Abdominal radiology	36	36	0	0
Endovascular surgical neuroradiology	7	7	0	0
Musculoskeletal radiology	21	21	0	0
Neuroradiology	241	223	0	0
Nuclear radiology	9	9	0	0
Pediatric radiology	60	59	0	0
Vascular and interventional radiology	241	241	0	0
Interventional radiology-integrated ^f	8	5	0	0
Sleep medicine ^g	146	145	0	0
Surgery-general	8458	2490	17	2473
Complex general surgical oncology	106	52	0	0
Hand surgery	8	8	0	0
Pediatric surgery	82	37	0	0
Surgical critical care	253	242	0	0
Vascular surgery	232	116	0	0
Vascular surgery-integrated ^f	273	58	4	54
Thoracic surgery	214	87	0	0
Congenital cardiac surgery	5	5	0	0
Thoracic surgery-integrated ^f	176	39	3	36
Urology	1294	294	0	16
Female pelvic medicine and reconstructive surgery	30	11	0	0
Pediatric urology	42	25	0	0
Transitional year	977	977	1	976

(continued)

Table 3. Total Number of Resident Physicians in Program Year 1 Positions and in Graduate Year 1 (GY1) Positions on Duty December 31, 2016, in ACGME-Accredited Programs and in Combined Specialty Programs (continued)

Specialty/Subspecialty	Total No. of Residents ^a	No. of Residents in Program Year 1 Positions ^b	No. of Residents in GY1 Positions	
			With Prior US GME ^c	Without Prior US GME ^c
Combined Specialties				
Diagnostic radiology/nuclear medicine	4	2	0	0
Emergency medicine/family medicine	20	4	0	4
Family medicine/preventive medicine	20	6	1	5
Internal medicine/anesthesiology	17	5	0	5
Internal medicine/dermatology	35	6	0	6
Internal medicine/emergency medicine	122	28	1	27
Internal medicine/emergency medicine/critical care medicine	17	1	1	0
Internal medicine/family medicine	12	2	0	2
Internal medicine/medical genetics and genomics	6	1	0	1
Internal medicine/neurology	3	0	0	0
Internal medicine/pediatrics	1466	381	2	379
Internal medicine/preventive medicine	30	8	0	8
Internal medicine/psychiatry	92	24	0	24
Pediatrics/anesthesiology	40	8	0	8
Pediatrics/emergency medicine	38	7	0	7
Pediatrics/medical genetics and genomics	50	15	0	15
Pediatrics/physical medicine and rehabilitation	12	4	0	4
Pediatrics/psychiatry/child and adolescent psychiatry	92	20	0	20
Psychiatry/family medicine	50	10	0	10
Psychiatry/neurology	21	4	1	3
Total	124 096	43 568	720	27 938

^a Includes resident physicians on duty as of December 31, 2016, reported through the 2016 National GME Census. A total of 205 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

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

^c Graduate year 1 (GY1) refers to positions available the first year after completing medical school; approximately 2.6% of resident physicians in GY1 positions have had some prior US graduate medical education (GME).

^d Hospice and palliative medicine is a subspecialty of anesthesiology, family medicine, internal medicine, pediatrics, psychiatry, or radiation oncology.

^e Pain medicine is a subspecialty of anesthesiology, neurology, physical medicine and rehabilitation, or psychiatry.

^f Integrated programs differ from subspecialty programs in that they include core surgical education.

^g Sleep medicine is a subspecialty of anesthesiology, family medicine, internal medicine, neurology, otolaryngology, pediatrics, or psychiatry.

Table 4. Programs and Resident Physicians on Duty December 31, 2016, by Number per 100 000 and by Region and State

Region and State	No. of Resident Physicians per 100 000 ^a	2016 State Population, in 1000s ^b	No. (%) Programs ^c	Resident Physicians ^d
New England, subtotal	67	14 736	814 (7.9)	9846 (7.9)
Connecticut	65	3576	181 (1.7)	2338 (1.9)
Maine	25	1331	28 (0.3)	332 (0.3)
Massachusetts	82	6812	442 (4.3)	5616 (4.5)
New Hampshire	31	1335	49 (0.5)	408 (0.3)
Rhode Island	80	1056	75 (0.7)	840 (0.7)
Vermont	50	625	39 (0.4)	312 (0.3)
Middle Atlantic, subtotal	66	41 474	2078 (20.1)	27 279 (22.0)
New Jersey	32	8944	214 (2.1)	2834 (2.3)
New York	82	19 745	1194 (11.5)	16 256 (13.1)
Pennsylvania	64	12 784	670 (6.5)	8189 (6.6)
East North Central, subtotal	46	46 756	1768 (17.1)	21 321 (17.2)
Illinois	48	12 802	474 (4.6)	6203 (5.0)
Indiana	22	6633	115 (1.1)	1428 (1.2)
Michigan	57	9928	449 (4.3)	5669 (4.6)
Ohio	53	11 614	539 (5.2)	6150 (5.0)
Wisconsin	32	5779	191 (1.8)	1871 (1.5)

(continued)

Table 4. Programs and Resident Physicians on Duty December 31, 2016, by Number per 100 000 and by Region and State (continued)

Region and State	No. of Resident Physicians per 100 000 ^a	2016 State Population, in 1000s ^b	No. (%)	
			Programs ^c	Resident Physicians ^d
West North Central, subtotal	38	21 185	718 (6.9)	7958 (6.4)
Iowa	30	3135	96 (0.9)	931 (0.8)
Kansas	29	2907	64 (0.6)	830 (0.7)
Minnesota	41	5520	214 (2.1)	2284 (1.8)
Missouri	47	6093	251 (2.4)	2856 (2.3)
Nebraska	41	1907	69 (0.7)	778 (0.6)
North Dakota	17	758	12 (0.1)	132 (0.1)
South Dakota	17	865	12 (0.1)	147 (0.1)
South Atlantic, subtotal	31	63 923	1764 (17.1)	19 709 (15.9)
Delaware	29	952	28 (0.3)	277 (0.2)
District of Columbia	272	681	178 (1.7)	1853 (1.5)
Florida	23	20 612	414 (4.0)	4656 (3.8)
Georgia	23	10 310	203 (2.0)	2365 (1.9)
Maryland	46	6016	228 (2.2)	2796 (2.3)
North Carolina	33	10 147	303 (2.9)	3311 (2.7)
South Carolina	27	4961	116 (1.1)	1360 (1.1)
Virginia	28	8412	230 (2.2)	2346 (1.9)
West Virginia	41	1831	64 (0.6)	745 (0.6)
East South Central, subtotal	30	18 940	520 (5.0)	5745 (4.6)
Alabama	28	4863	122 (1.2)	1380 (1.1)
Kentucky	27	4437	122 (1.2)	1214 (1.0)
Mississippi	22	2989	65 (0.6)	647 (0.5)
Tennessee	38	6651	211 (2.0)	2504 (2.0)
West South Central, subtotal	30	39 456	964 (9.3)	11 876 (9.6)
Arkansas	26	2988	64 (0.6)	770 (0.6)
Louisiana	44	4682	170 (1.6)	2071 (1.7)
Oklahoma	22	3924	74 (0.7)	872 (0.7)
Texas	29	27 863	656 (6.3)	8163 (6.6)
Mountain, subtotal	21	23 855	450 (4.4)	5120 (4.1)
Arizona	24	6931	146 (1.4)	1691 (1.4)
Colorado	25	5541	121 (1.2)	1367 (1.1)
Idaho	7	1683	8 (0.1)	113 (0.1)
Montana	8	1043	4 (<0.1)	80 (0.1)
Nevada	15	2940	29 (0.3)	448 (0.4)
New Mexico	28	2081	58 (0.6)	583 (0.5)
Utah	26	3051	81 (0.8)	798 (0.6)
Wyoming	7	586	3 (<0.1)	40 (<0.1)
Pacific, subtotal	27	52 802	1195 (11.6)	14 457 (11.6)
Alaska	4	742	2 (<0.1)	32 (<0.1)
California	28	39 250	915 (8.8)	11 067 (8.9)
Hawaii	30	1429	31 (0.3)	426 (0.3)
Oregon	23	4093	87 (0.8)	953 (0.8)
Washington	27	7288	160 (1.5)	1979 (1.6)
Puerto Rico	23	3411	72 (0.7)	785 (0.6)
Total	38.0	326 537	10 343 (100.0)	124 096 (100.0)

^a Aggregate number of resident physicians per 100 000 population.

^b 2016 State population is from Table 1 in the "Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2016 (NST-EST2016-01)." Source: US Census Bureau, Population Division. Release Date: December 2016, <https://www.census.gov/data/tables/2016/demo/popest/nation-total.html>. Total population numbers include the District of Columbia and Puerto Rico.

^c Total number of US GME programs accredited by the Accreditation Council for

Graduate Medical Education and combined specialty programs, as of December 31, 2016, surveyed by the National GME Census during 2016.

^d Includes resident physicians on duty as of December 31, 2016, reported through the 2016 National GME Census. A total of 205 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

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 31, 2016^a

Specialty/Subspecialty	US Citizen	US Permanent Resident	Non-US Citizen	Unknown Citizenship/ Foreign Born	Total
Anesthesiology	45	6	20	21	92
Emergency medicine	73	4	10	11	98
Family medicine	686	110	188	102	1086
Internal medicine	994	421	1005	796	3216
Neurological surgery	2	5	6	0	13
Neurology	16	17	57	32	122
Obstetrics and gynecology	63	11	32	4	110
Orthopedic surgery	4	2	1	1	8
Otolaryngology	2	2	4	1	9
Pathology-anatomic and clinical	50	71	75	27	223
Pediatrics	184	40	186	85	495
Physical medicine and rehabilitation	10	0	1	0	11
Plastic surgery-integrated ^b	0	2	0	1	3
Psychiatry	159	49	90	46	344
Radiology-diagnostic	0	1	2	0	3
Surgery-general	169	43	114	56	382
Vascular surgery-integrated ^b	1	0	1	0	2
Thoracic surgery-integrated ^b	0	0	1	0	1
Transitional year	49	15	19	10	93
Combined Specialties					
Emergency medicine/family medicine	1	0	0	0	1
Family medicine/preventive medicine	1	0	0	0	1
Internal medicine/emergency medicine	0	0	1	1	2
Internal medicine/pediatrics	15	2	5	1	23
Internal medicine/preventive medicine	0	1	0	2	3
Internal medicine/psychiatry	0	2	1	0	3
Pediatrics/medical genetics and genomics	0	0	3	1	4
Pediatrics/psychiatry/child and adolescent psychiatry	1	0	1	0	2
Total, No. (%)	2525 (39.8)	804 (12.7)	1823 (28.7)	1198 (18.9)	6350 (100.0)

^a Includes only international medical graduate resident physicians (IMGs) entering US GME for the first time; graduates of Canadian medical schools are not considered IMGs.

^b Integrated programs differ from subspecialty programs in that they include core surgical education.

Table 6. Race and Hispanic Ethnic Origin of Resident Physicians on Duty December 31, 2016, by Type of Medical School From Which They Graduated^a

Race ^b	No. (%)			Total
	US and Canadian Allopathic School	US Osteopathic School	Non-US School	
Black	4841 (70.1)	223 (3.2)	1841 (26.7)	6905
American Indian/Alaskan Native	133 (87.5)	9 (5.9)	10 (6.6)	152
White	52 754 (74.2)	8718 (12.2)	9662 (13.6)	71 134
Asian	17 686 (53.1)	2214 (6.6)	13 419 (40.3)	33 319
Native Hawaiian/Pacific Islander	59 (36.9)	19 (11.9)	82 (51.2)	160
Multiracial	2590 (70.8)	266 (7.3)	802 (21.9)	3658
Other/unknown	3936 (44.9)	929 (10.6)	3903 (44.5)	8768
Ethnic origin ^b				
Hispanic	5962 (63.4)	364 (3.9)	3083 (32.8)	9409
Non-Hispanic	76 037 (66.3)	12 014 (10.5)	26 636 (23.2)	114 687
Total^c	81 999 (66.1)	12 378 (10.0)	29 719 (23.9)	124 096

^a Includes resident physicians on duty as of December 31, 2016, reported through the 2016 National GME Census. A total of 205 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

^b The 2016 National GME Census imported self-designated race/ethnicity from

Association of American Medical Colleges databases where available. "Multiracial" refers to residents who have self-identified as more than 1 race. A person of Hispanic ethnicity may be of any race.

^c These total data apply to each subsection separately (ie, total for race and total for ethnic origin).

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 31, 2016

Citizenship/Visa Status	Resident Physicians ^a	
	Total	IMGs ^b
Native US citizen	87202 (70.3)	7567 (25.5)
Naturalized US citizen	9863 (7.9)	3757 (12.6)
Permanent resident	7514 (6.1)	4774 (16.1)
B-1, B-2 temporary visitor	37 (<0.1)	35 (0.1)
F-1 student	426 (0.3)	5 (<0.1)
H-1, H-1B, H-2, H-3 temporary worker	2869 (2.3)	2588 (8.7)
J-1, J-2 exchange visitor	6996 (5.6)	6816 (22.9)
Refugee/asylee/displaced person	74 (<0.1)	68 (0.2)
Other	345 (0.3)	219 (0.7)
Unknown citizenship/foreign born	8493 (6.8)	3890 (13.1)
Unknown citizenship/unknown birth country	276 (0.2)	0
Total	124 096	29 719

^a Includes resident physicians on duty as of December 31, 2016, reported through the 2016 National GME Census. A total of 205 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these

nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

^b Does not include graduates of Canadian medical schools.

Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 31, 2016, by Specialty

Specialty/Subspecialty	No. of Resident Physicians ^{a,b}								Total
	Black	American Indian/Alaskan Native	White	Asian	Native Hawaiian/Pacific Islander	Multi-racial	Other/Unknown	Hispanic Origin	
Allergy and immunology	12	0	132	111	0	4	12	9	271
Anesthesiology	346	6	3519	1385	8	168	308	364	5740
Adult cardiothoracic anesthesiology	13	1	118	35	0	4	11	5	182
Critical care medicine	7	0	109	37	3	4	8	13	168
Obstetric anesthesiology	4	0	15	7	0	0	2	4	28
Pediatric anesthesiology	5	0	135	40	0	4	9	8	193
Colon and rectal surgery	8	0	47	17	0	2	5	5	79
Dermatology	58	1	931	247	0	35	56	72	1328
Dermatopathology	0	0	50	9	0	1	9	5	69
Micrographic surgery and dermatologic oncology	1	0	57	11	0	0	3	1	72
Emergency medicine	294	8	4652	906	1	203	313	487	6377
Clinical informatics	0	0	5	0	0	0	0	0	5
Emergency medical services	4	1	43	4	0	0	1	3	53
Medical toxicology	1	0	50	5	0	1	2	2	59
Pediatric emergency medicine	11	0	60	31	0	3	10	8	115
Sports medicine	0	0	4	2	0	1	3	3	10
Undersea and hyperbaric medicine	0	0	9	1	0	0	0	0	10
Family medicine	826	35	6279	2362	31	342	814	944	10 689
Clinical informatics	0	0	3	2	0	0	1	0	6
Geriatric medicine	3	0	20	9	0	2	7	5	41
Sports medicine	11	1	141	26	0	1	6	10	186
Hospice and palliative medicine ^c	6	0	147	55	2	8	35	21	253
Internal medicine	1391	13	10 797	9252	35	601	2551	1854	24 640
Adult congenital heart disease	0	0	7	1	0	0	2	1	10
Advanced heart failure and transplant cardiology	7	0	47	26	1	0	2	6	83
Cardiovascular disease	127	1	1193	1021	4	97	173	185	2616
Clinical cardiac electrophysiology	6	0	69	71	0	10	11	12	167
Clinical informatics	1	0	10	7	0	1	1	1	20
Critical care medicine	11	0	94	79	2	6	16	18	208
Endocrinology, diabetes, and metabolism	29	0	271	279	0	18	40	71	637
Gastroenterology	78	0	700	595	3	46	83	102	1505
Geriatric medicine	17	0	99	77	1	6	21	25	221
Hematology	0	0	7	11	0	2	1	0	21
Hematology and medical oncology	71	2	730	720	2	52	80	94	1657
Infectious disease	57	1	370	218	1	15	62	92	724
Interventional cardiology	14	0	130	119	1	11	17	14	292
Nephrology	71	0	272	412	3	26	64	72	848
Medical oncology	1	0	20	29	0	2	3	2	55
Pulmonary disease	6	0	14	36	0	1	5	5	62
Pulmonary disease and critical care medicine	69	0	835	564	1	39	113	99	1621
Rheumatology	22	0	211	184	1	11	28	35	457
Transplant hepatology	2	0	13	20	0	0	1	1	36
Medical genetics and genomics	4	0	42	18	1	3	7	7	75
Medical biochemical genetics	0	0	7	1	0	0	3	2	11
Molecular genetic pathology	1	0	27	18	0	1	4	3	51

(continued)

Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 31, 2016, by Specialty (continued)

Specialty/Subspecialty	No. of Resident Physicians ^{a,b}								Total
	Black	American Indian/ Alaskan Native	White	Asian	Native Hawaiian/ Pacific Islander	Multi-racial	Other/ Unknown	Hispanic Origin	
Neurological surgery	75	2	855	324	0	48	63	93	1367
Endovascular surgical neuroradiology	0	0	1	0	0	0	0	1	1
Neurology	87	3	1279	832	5	70	154	195	2430
Child neurology	22	0	208	109	0	16	9	36	364
Clinical neurophysiology	8	0	74	54	4	5	13	10	158
Endovascular surgical neuroradiology	0	0	0	2	0	0	0	0	2
Epilepsy	2	0	33	24	1	1	5	2	66
Neurodevelopmental disabilities	0	0	22	3	0	1	1	2	27
Neuromuscular medicine	4	0	26	18	0	2	4	5	54
Vascular neurology	4	0	56	41	0	1	9	8	111
Nuclear medicine	3	0	31	20	0	5	10	7	69
Obstetrics and gynecology	468	9	3430	739	6	176	315	506	5143
Female pelvic medicine and reconstructive surgery	14	0	81	28	0	3	6	8	132
Gynecologic oncology	1	0	44	5	1	0	20	3	71
Maternal-fetal medicine	6	0	21	8	0	0	13	2	48
Reproductive endocrinology and infertility	1	0	10	1	0	1	8	1	21
Ophthalmology	33	0	805	384	3	47	54	71	1326
Ophthalmic plastic and reconstructive surgery	0	0	4	1	0	0	1	1	6
Orthopedic surgery	150	7	2801	508	3	101	137	202	3707
Adult reconstructive orthopedics	3	0	30	4	0	0	2	1	39
Foot and ankle orthopedics	0	0	12	1	0	0	2	1	15
Hand surgery	4	1	91	14	0	4	6	5	120
Musculoskeletal oncology	0	0	10	0	0	0	3	2	13
Orthopedic sports medicine	4	0	121	14	0	4	19	5	162
Orthopedic surgery of the spine	3	0	15	8	0	1	2	2	29
Orthopedic trauma	0	0	11	1	0	1	0	0	13
Pediatric orthopedics	0	0	25	3	0	0	4	2	32
Osteopathic neuromusculoskeletal medicine	0	0	1	0	0	0	1	0	2
Otolaryngology	32	3	1017	357	1	42	71	84	1523
Neurotology	1	0	20	5	0	0	0	0	26
Pediatric otolaryngology	0	0	23	9	0	0	2	0	34
Pain medicine ^d	21	0	158	89	0	9	13	10	290
Pathology-anatomic and clinical	86	1	1274	652	1	77	166	180	2257
Blood banking/transfusion medicine	1	0	28	21	0	1	1	4	52
Clinical informatics	1	0	4	4	0	0	0	0	9
Chemical pathology	0	0	2	0	0	0	0	0	2
Cytopathology	2	0	73	41	0	4	11	9	131
Forensic pathology	2	0	28	3	0	1	1	2	35
Hematology	2	0	69	42	0	3	5	7	121
Medical microbiology	0	0	6	6	0	0	1	1	13
Neuropathology	0	0	39	10	0	1	2	9	52
Pediatric pathology	1	0	13	4	0	0	4	2	22
Selective pathology	6	0	60	55	1	3	19	16	144

(continued)

Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 31, 2016, by Specialty (continued)

Specialty/Subspecialty	No. of Resident Physicians ^{a,b}								
	Black	American Indian/Alaskan Native	White	Asian	Native Hawaiian/Pacific Islander	Multi-racial	Other/Unknown	Hispanic Origin	Total
Pediatrics	496	10	5352	1980	5	265	690	813	8798
Adolescent medicine	18	0	51	8	0	6	4	12	87
Child abuse pediatrics	4	0	30	3	0	0	2	4	39
Clinical informatics	0	0	4	1	0	0	0	0	5
Developmental-behavioral pediatrics	3	0	69	9	0	6	8	12	95
Neonatal-perinatal medicine	50	1	415	198	1	29	29	42	723
Pediatric cardiology	20	1	268	119	0	11	21	21	440
Pediatric critical care medicine	17	2	353	86	0	14	21	40	493
Pediatric emergency medicine	20	0	265	66	1	9	17	22	378
Pediatric endocrinology	17	0	135	59	0	12	16	28	239
Pediatric gastroenterology	14	0	157	83	0	4	19	25	277
Pediatric hematology/oncology	21	1	316	113	0	9	22	35	482
Pediatric infectious diseases	9	0	111	29	0	6	16	16	171
Pediatric nephrology	10	0	59	29	0	2	7	8	107
Pediatric pulmonology	5	0	99	37	0	4	11	20	156
Pediatric rheumatology	3	0	50	19	0	3	7	8	82
Pediatric sports medicine	0	0	19	3	0	1	2	1	25
Pediatric transplant hepatology	0	0	4	2	0	0	2	1	8
Physical medicine and rehabilitation	78	1	736	325	0	58	58	91	1256
Brain injury medicine	0	0	3	2	0	0	0	0	5
Pediatric rehabilitation	0	0	17	5	0	0	4	3	26
Spinal cord injury medicine	1	0	10	5	0	0	0	0	16
Sports medicine	1	0	16	1	0	0	0	2	18
Plastic surgery	15	0	204	59	0	12	16	37	306
Craniofacial surgery	0	0	4	2	0	1	1	0	8
Hand surgery	2	0	15	4	0	0	0	1	21
Plastic surgery-integrated ^e	20	3	522	144	0	35	29	51	753
Preventive medicine	51	0	138	63	0	10	43	24	305
Medical toxicology	0	0	3	2	0	0	0	0	5
Undersea and hyperbaric medicine	0	0	2	1	0	0	0	0	3
Psychiatry	376	7	2843	1475	6	174	404	468	5285
Addiction psychiatry	1	0	39	26	0	0	2	4	68
Child and adolescent psychiatry	57	3	403	264	1	29	44	68	801
Forensic psychiatry	5	0	33	8	0	0	5	2	51
Geriatric psychiatry	4	0	18	21	0	0	4	6	47
Psychosomatic medicine	3	0	36	16	1	3	6	7	65
Radiation oncology	23	1	422	234	0	19	21	34	720
Radiology-diagnostic	168	1	2733	1227	1	163	183	245	4476
Abdominal radiology	3	0	15	8	0	2	8	1	36
Endovascular surgical neuroradiology	1	0	3	1	0	0	2	0	7
Musculoskeletal radiology	0	0	17	4	0	0	0	1	21
Neuroradiology	4	0	149	73	0	3	12	11	241
Nuclear radiology	0	0	5	1	0	0	3	1	9
Pediatric radiology	2	0	35	16	0	0	7	5	60
Vascular and interventional radiology	7	2	153	52	0	7	20	11	241
Interventional radiology-integrated ^e	0	0	6	2	0	0	0	0	8
Sleep medicine ^f	9	1	52	62	2	4	16	11	146

(continued)

Table 8. Race and Ethnic Origin of Resident Physicians in ACGME-Accredited and in Combined Specialty Graduate Medical Education (GME) Programs on Duty December 31, 2016, by Specialty (continued)

Specialty/Subspecialty	No. of Resident Physicians ^{a,b}								Total
	Black	American Indian/Alaskan Native	White	Asian	Native Hawaiian/Pacific Islander	Multi-racial	Other/Unknown	Hispanic Origin	
Surgery-general	465	16	5499	1667	10	231	570	697	8458
Complex general surgical oncology	4	0	71	23	0	3	5	6	106
Hand surgery	0	0	5	3	0	0	0	0	8
Pediatric surgery	3	0	57	14	0	6	2	4	82
Surgical critical care	11	0	176	38	1	8	19	7	253
Vascular surgery	18	0	140	62	0	4	8	16	232
Vascular surgery-integrated ^e	11	2	170	64	0	8	18	19	273
Thoracic surgery	6	0	153	37	0	9	9	16	214
Congenital cardiac surgery	0	0	1	4	0	0	0	0	5
Thoracic surgery-integrated ^e	3	0	123	30	0	8	12	16	176
Urology	45	1	883	279	1	32	53	70	1294
Female pelvic medicine and reconstructive surgery	3	0	20	4	0	1	2	2	30
Pediatric urology	0	0	34	5	0	2	1	4	42
Transitional year	24	0	560	215	0	26	152	68	977
Combined Specialties									
Diagnostic radiology/nuclear medicine	0	0	4	0	0	0	0	1	4
Emergency medicine/family medicine	3	0	11	6	0	0	0	0	20
Family medicine/preventive medicine	1	0	14	4	0	1	0	1	20
Internal medicine/anesthesiology	0	0	7	8	0	1	1	2	17
Internal medicine/dermatology	2	0	24	8	0	0	1	0	35
Internal medicine/emergency medicine	8	0	83	19	0	7	5	8	122
Internal medicine/emergency medicine/critical care medicine	2	0	11	3	0	1	0	0	17
Internal medicine/family medicine	1	0	6	4	1	0	0	0	12
Internal medicine/medical genetics and genomics	0	0	4	0	0	0	2	1	6
Internal medicine/neurology	0	0	3	0	0	0	0	0	3
Internal medicine/pediatrics	90	1	1005	287	2	34	47	90	1466
Internal medicine/preventive medicine	4	0	5	18	0	1	2	1	30
Internal medicine/psychiatry	8	1	60	18	0	1	4	3	92
Pediatrics/anesthesiology	5	0	28	5	0	0	2	2	40
Pediatrics/emergency medicine	0	0	30	4	0	1	3	4	38
Pediatrics/medical genetics and genomics	0	0	36	9	0	2	3	5	50
Pediatrics/physical medicine and rehabilitation	1	0	8	1	0	1	1	0	12
Pediatrics/psychiatry/child and adolescent psychiatry	5	0	64	14	0	6	3	5	92
Psychiatry/family medicine	2	0	34	11	0	2	1	4	50
Psychiatry/neurology	0	1	14	4	0	2	0	0	21
Total	6905	152	71 134	33 319	160	3658	8768	9409	124 096

^a Includes resident physicians on duty as of December 31, 2016, reported through the 2016 National GME Census. A total of 206 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

^b The 2016 National GME Census imported self-designated race/ethnicity from Association of American Medical Colleges databases where available. "Multiracial" refers to residents who have self-identified as more than one race. A person of Hispanic ethnicity may be of any race.

^c Hospice and palliative medicine is a subspecialty of anesthesiology, family medicine, internal medicine, pediatrics, psychiatry, or radiation oncology.

^d Pain medicine is a subspecialty of anesthesiology, neurology, physical medicine and rehabilitation, or psychiatry.

^e Integrated programs differ from subspecialty programs in that they include core surgical education.

^f Sleep medicine is a subspecialty of anesthesiology, family medicine, internal medicine, neurology, otolaryngology, pediatrics, or psychiatry.

Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2015-2016^a

Specialty/Subspecialty	No. Completing a Program	No. Completing a Preliminary Year
Allergy and immunology	139	0
Anesthesiology	1542	0
Adult cardiothoracic anesthesiology	161	0
Critical care medicine	165	0
Obstetric anesthesiology	39	0
Pediatric anesthesiology	212	0
Colon and rectal surgery	84	0
Dermatology	405	0
Dermatopathology	73	0
Micrographic surgery and dermatologic oncology	66	0
Emergency medicine	1785	0
Clinical informatics	1	0
Emergency medical services	41	0
Medical toxicology	28	0
Pediatric emergency medicine	33	0
Sports medicine	9	0
Undersea and hyperbaric medicine	7	0
Family medicine	3373	6
Geriatric medicine	46	0
Sports medicine	197	0
Hospice and palliative medicine ^b	255	0
Internal medicine	7050	1986
Advanced heart failure and transplant cardiology	68	0
Cardiovascular disease	866	0
Clinical cardiac electrophysiology	125	0
Critical care medicine	126	0
Endocrinology, diabetes, and metabolism	285	0
Gastroenterology	466	0
Geriatric medicine	202	0
Hematology	5	0
Hematology and medical oncology	540	0
Infectious disease	357	0
Interventional cardiology	276	0
Nephrology	443	0
Medical oncology	33	0
Pulmonary disease	35	0
Pulmonary disease and critical care medicine	521	0
Rheumatology	221	0
Transplant hepatology	34	0
Medical genetics and genomics	32	0
Medical biochemical genetics	7	0
Molecular genetic pathology	49	0

(continued)

Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2015-2016^a (continued)

Specialty/Subspecialty	No. Completing a Program	No. Completing a Preliminary Year
Neurological surgery	179	0
Endovascular surgical neuroradiology	2	0
Neurology	644	0
Child neurology	107	0
Clinical neurophysiology	179	0
Endovascular surgical neuroradiology	2	0
Epilepsy	48	0
Neurodevelopmental disabilities	3	0
Neuromuscular medicine	64	0
Vascular neurology	104	0
Nuclear medicine	35	0
Obstetrics and gynecology	1234	4
Female pelvic medicine and reconstructive surgery	41	0
Ophthalmology	461	0
Ophthalmic plastic and reconstructive surgery	3	0
Orthopedic surgery	695	0
Adult reconstructive orthopedics	41	0
Foot and ankle orthopedics	13	0
Hand surgery	129	0
Musculoskeletal oncology	13	0
Orthopedic sports medicine	171	0
Orthopedic surgery of the spine	26	0
Orthopedic trauma	17	0
Pediatric orthopedics	35	0
Otolaryngology	290	0
Neurotology	13	0
Pediatric otolaryngology	28	0
Pain medicine ^c	301	0
Pathology-anatomic and clinical	549	0
Blood banking/transfusion medicine	46	0
Chemical pathology	2	0
Cytopathology	125	0
Forensic pathology	46	0
Hematology	125	0
Medical microbiology	10	0
Neuropathology	21	0
Pediatric pathology	19	0
Selective pathology	129	0

(continued)

Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2015-2016^a (continued)

Specialty/Subspecialty	No. Completing a Program	No. Completing a Preliminary Year
Pediatrics	2757	77
Adolescent medicine	21	0
Child abuse pediatrics	9	0
Clinical informatics	2	0
Developmental-behavioral pediatrics	36	0
Neonatal-perinatal medicine	229	0
Pediatric cardiology	144	0
Pediatric critical care medicine	156	0
Pediatric emergency medicine	123	0
Pediatric endocrinology	75	0
Pediatric gastroenterology	92	0
Pediatric hematology/oncology	151	0
Pediatric infectious diseases	55	0
Pediatric nephrology	35	0
Pediatric pulmonology	57	0
Pediatric rheumatology	22	0
Pediatric sports medicine	21	0
Pediatric transplant hepatology	6	0
Physical medicine and rehabilitation	392	0
Brain injury medicine	6	0
Pediatric rehabilitation	11	0
Spinal cord injury medicine	15	0
Sports medicine	23	0
Plastic surgery	126	0
Craniofacial surgery	8	0
Hand surgery	18	0
Plastic surgery-integrated ^d	71	0
Preventive medicine	142	0
Psychiatry	1077	3
Addiction psychiatry	73	0
Child and adolescent psychiatry	400	0
Forensic psychiatry	73	0
Geriatric psychiatry	50	0
Psychosomatic medicine	73	0
Radiation oncology	180	0
Radiology-diagnostic	1156	0
Abdominal radiology	27	0
Endovascular surgical neuroradiology	2	0
Musculoskeletal radiology	20	0
Neuroradiology	230	0
Nuclear radiology	14	0
Pediatric radiology	78	0
Vascular and interventional radiology	249	0
Sleep medicine ^e	140	0

(continued)

Table 9. Resident Physicians Who Completed a Graduate Medical Education (GME) Program or Preliminary Year During 2015-2016^a (continued)

Specialty/Subspecialty	No. Completing a Program	No. Completing a Preliminary Year
Surgery-general	1175	1144
Complex general surgical oncology	50	0
Hand surgery	8	0
Pediatric surgery	37	0
Surgical critical care	220	0
Vascular surgery	114	0
Vascular surgery-integrated ^d	32	0
Thoracic surgery	99	0
Congenital cardiac surgery	10	0
Thoracic surgery-integrated ^d	9	0
Urology	289	0
Female pelvic medicine and reconstructive surgery	10	0
Pediatric urology	27	0
Transitional year	0	1008
Combined Specialties		
Emergency medicine/family medicine	5	0
Family medicine/preventive medicine	3	0
Internal medicine/anesthesiology	1	0
Internal medicine/dermatology	8	0
Internal medicine/emergency medicine	18	0
Internal medicine/emergency medicine/critical care medicine	6	0
Internal medicine/family medicine	4	0
Internal medicine/neurology	1	0
Internal medicine/pediatrics	353	0
Internal medicine/preventive medicine	6	0
Internal medicine/psychiatry	19	0
Pediatrics/anesthesiology	2	0
Pediatrics/emergency medicine	7	0
Pediatrics/medical genetics and genomics	6	0
Pediatrics/physical medicine and rehabilitation	2	0
Pediatrics/psychiatry/child and adolescent psychiatry	17	0
Psychiatry/family medicine	9	0
Psychiatry/neurology	4	0
Total	37 548	4228

^a Includes resident physicians reported as completing a program between January 1 and December 31, 2016, reported through the 2016 National GME Census. A total of 205 programs (2.0%) did not provide updated information on residents by March 1, 2017. For these nonresponding programs, resident physicians reported from the last received survey were moved into their next year in the program or graduated.

^b Hospice and palliative medicine is a subspecialty of anesthesiology, family medicine, internal medicine, pediatrics, psychiatry, or radiation oncology.

^c Pain medicine is a subspecialty of anesthesiology, neurology, physical medicine and rehabilitation, or psychiatry.

^d Integrated programs differ from subspecialty programs in that they include core surgical education.

^e Sleep medicine is a subspecialty of anesthesiology, family medicine, internal medicine, neurology, otolaryngology, pediatrics, or psychiatry.

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 (2017-2018) as Projected by Program Directors

Specialty/Subspecialty	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of GY 1 Positions ^b
Allergy and immunology	337	160	0
Anesthesiology	6431	1511	1226
Adult cardiothoracic anesthesiology	204	204	0
Clinical informatics	2	1	0
Critical care medicine	213	213	0
Obstetric anesthesiology	52	52	0
Pediatric anesthesiology	240	240	0
Colon and rectal surgery	96	96	0
Dermatology	1392	457	13
Dermatopathology	86	83	0
Micrographic surgery and dermatologic oncology	85	84	0
Emergency medicine	6879	2140	2140
Clinical informatics	9	5	0
Emergency medical services	96	94	0
Medical toxicology	96	49	0
Pediatric emergency medicine	134	51	0
Sports medicine	14	14	0
Undersea and hyperbaric medicine	14	14	0
Family medicine	11 609	3874	3874
Clinical informatics	10	5	0
Geriatric medicine	94	94	0
Sports medicine	232	232	0
Hospice and palliative medicine ^c	333	333	0
Internal medicine	26 410	10 216	10 216
Adult congenital heart disease	16	9	0
Advanced heart failure and transplant cardiology	116	116	0
Cardiovascular disease	2834	945	0
Clinical cardiac electrophysiology	253	213	0
Clinical informatics	44	21	0
Critical care medicine	242	142	0
Endocrinology, diabetes, and metabolism	664	318	0
Gastroenterology	1610	539	0
Geriatric medicine	398	398	0
Hematology	23	10	0
Hematology and medical oncology	1769	589	0
Infectious disease	839	410	0
Interventional cardiology	348	328	0
Nephrology	975	485	0
Medical oncology	40	17	0
Pulmonary disease	77	42	0
Pulmonary disease and critical care medicine	1720	572	0
Rheumatology	474	227	0
Transplant hepatology	76	76	0
Medical genetics and genomics	161	74	0
Medical biochemical genetics	20	20	0
Molecular genetic pathology	60	60	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 (2017-2018) as Projected by Program Directors (continued)

Specialty/Subspecialty	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of GY 1 Positions ^b
Neurological surgery	1466	214	214
Endovascular surgical neuroradiology	3	3	0
Neurology	2652	759	408
Brain injury medicine	1	1	0
Child neurology	417	140	0
Clinical neurophysiology	276	276	0
Endovascular surgical neuroradiology	2	2	0
Epilepsy	108	106	0
Neurodevelopmental disabilities	37	10	0
Neuromuscular medicine	88	86	0
Vascular neurology	164	164	0
Nuclear medicine	149	66	0
Obstetrics and gynecology	5428	1376	1376
Female pelvic medicine and reconstructive surgery	155	49	0
Gynecologic oncology	80	26	0
Maternal-fetal medicine	53	17	0
Reproductive endocrinology and infertility	27	9	0
Ophthalmology	1447	486	0
Ophthalmic plastic and reconstructive surgery	7	3	0
Orthopedic surgery	3828	769	769
Adult reconstructive orthopedics	47	47	0
Foot and ankle orthopedics	15	15	0
Hand surgery	149	149	0
Musculoskeletal oncology	18	17	0
Orthopedic sports medicine	238	238	0
Orthopedic surgery of the spine	35	35	0
Orthopedic trauma	17	17	0
Pediatric orthopedics	44	44	0
Osteopathic neuromusculoskeletal medicine	23	10	0
Otolaryngology	1564	315	315
Neurotology	33	21	0
Pediatric otolaryngology	37	34	0
Pain medicine ^d	378	378	0
Pathology-anatomic and clinical	2425	615	615
Blood banking/transfusion medicine	73	71	0
Clinical informatics	16	8	0
Chemical pathology	3	3	0
Cytopathology	151	151	0
Forensic pathology	74	74	0
Hematology	153	148	0
Medical microbiology	19	19	0
Neuropathology	75	39	0
Pediatric pathology	35	35	0
Selective pathology	181	181	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 (2017-2018) as Projected by Program Directors (continued)

Specialty/Subspecialty	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of GY 1 Positions ^b
Pediatrics	9166	3103	3103
Adolescent medicine	115	42	0
Child abuse pediatrics	74	27	0
Clinical informatics	11	6	0
Developmental-behavioral pediatrics	143	51	0
Neonatal-perinatal medicine	784	261	0
Pediatric cardiology	444	147	0
Pediatric critical care medicine	548	181	0
Pediatric emergency medicine	392	136	0
Pediatric endocrinology	313	103	0
Pediatric gastroenterology	309	100	0
Pediatric hematology/oncology	523	175	0
Pediatric infectious diseases	242	87	0
Pediatric nephrology	185	65	0
Pediatric pulmonology	213	72	0
Pediatric rheumatology	138	46	0
Pediatric sports medicine	27	27	0
Pediatric transplant hepatology	11	11	0
Physical medicine and rehabilitation	1371	380	117
Brain injury medicine	10	10	0
Pediatric rehabilitation	42	24	0
Spinal cord injury medicine	29	29	0
Sports medicine	22	22	0
Plastic surgery	313	100	0
Craniofacial surgery	10	10	0
Hand surgery	24	24	0
Plastic surgery-integrated ^c	938	157	157
Preventive medicine	593	298	0
Medical toxicology	3	1	0
Undersea and hyperbaric medicine	4	4	0
Psychiatry	6137	1564	1564
Addiction psychiatry	112	110	0
Child and adolescent psychiatry	935	472	0
Forensic psychiatry	105	105	0
Geriatric psychiatry	125	125	0
Psychosomatic medicine	122	122	0
Radiation oncology	784	197	0
Radiology-diagnostic	4835	1199	49
Abdominal radiology	45	45	0
Endovascular surgical neuroradiology	9	9	0
Musculoskeletal radiology	43	43	0
Neuroradiology	324	313	0
Nuclear radiology	29	29	0
Pediatric radiology	114	114	0
Vascular and interventional radiology	298	298	0
Interventional radiology-integrated ^c	610	122	0
Sleep medicine ^f	192	189	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 (2017-2018) as Projected by Program Directors (continued)

Specialty/Subspecialty	Total Program Size	Total No. of Program Year 1 Positions ^a	Total No. of GY 1 Positions ^b
Surgery-general	8439	2638	2638
Complex general surgical oncology	108	54	0
Hand surgery	8	8	0
Pediatric surgery	85	48	0
Surgical critical care	288	277	0
Vascular surgery	271	134	0
Vascular surgery-integrated ^c	300	61	61
Thoracic surgery	259	108	0
Congenital cardiac surgery	12	12	0
Thoracic surgery-integrated ^c	217	37	37
Urology	1373	332	0
Female pelvic medicine and reconstructive surgery	37	13	0
Pediatric urology	50	28	0
Transitional year	1153	1153	1153
Combined Specialties			
Diagnostic radiology/nuclear medicine	10	3	0
Emergency medicine/family medicine	20	4	4
Family medicine/preventive medicine	21	6	6
Internal medicine/anesthesiology	28	7	7
Internal medicine/dermatology	35	6	6
Internal medicine/emergency medicine	139	28	28
Internal medicine/emergency medicine/critical care medicine	16	0	0
Internal medicine/family medicine	11	2	2
Internal medicine/medical genetics and genomics	13	4	4
Internal medicine/neurology	5	1	1
Internal medicine/pediatrics	1514	381	381
Internal medicine/preventive medicine	40	11	11
Internal medicine/psychiatry	120	27	27
Pediatrics/anesthesiology	42	10	10
Pediatrics/emergency medicine	43	9	9
Pediatrics/medical genetics and genomics	66	20	20
Pediatrics/physical medicine and rehabilitation	13	3	3
Pediatrics/psychiatry/child and adolescent psychiatry	99	20	20
Psychiatry/family medicine	51	10	10
Psychiatry/neurology	29	6	6
Total	136 749	49 275	30 600

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

^b Graduate 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.

^c Hospice and palliative medicine is a subspecialty of anesthesiology, family medicine, internal medicine, pediatrics, psychiatry, or radiation oncology.

^d Pain medicine is a subspecialty of anesthesiology, neurology, physical medicine and rehabilitation, or psychiatry.

^e Integrated programs differ from subspecialty programs in that they include core surgical education.

^f Sleep medicine is a subspecialty of anesthesiology, family medicine, internal medicine, neurology, otolaryngology, pediatrics, or psychiatry.