

ACCREDITATION COUNCIL FOR GRADUATE MEDICAL EDUCATION

# DATA RESOURCE BOOK

ACADEMIC YEAR 2024-2025



# Data Resource Book

## Academic Year 2024-2025

Department of Information Services / Applications and Data Analysis  
Accreditation Council for Graduate Medical Education



Accreditation Council for Graduate Medical Education

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# Introduction

## Overview

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The mission of the Accreditation Council for Graduate Medical Education (ACGME) is to improve health care and population health by assessing and enhancing the quality of resident and fellow physicians' education through advancements in accreditation and education. The collection and analysis of data is crucial to performing these functions. The ACGME's *Data Resource Book* contains the most recent data on ACGME-accredited Sponsoring Institutions and programs, and physicians in ACGME-accredited graduate medical education (GME) programs. The *Data Resource Book* is intended to be a concise reference for policymakers, designated institutional officials, GME program directors, and others to identify and clarify issues affecting the accreditation of GME programs and the institutions that sponsor them.

The ACGME continues to improve the *Data Resource Book* to describe the accreditation process in greater detail, and hopes it is a valuable resource for constituents. Feedback and suggestions are welcomed and valued. Send comments to [databook@acgme.org](mailto:databook@acgme.org).

## Accreditation Data System

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The ACGME's proprietary Accreditation Data System (ADS) is a web-based software system that contains critical accreditation data for all Sponsoring Institutions and programs. It is a tool to collect and organize information for accreditation purposes and serves as a means of communication between the ACGME and Sponsoring Institutions and programs. It is also used internally by the Department of Accreditation, Recognition, and Field Activities in conducting accreditation activities. ADS incorporates several applications and functions, including the Annual Update, Milestones reporting, Case Logs, Surveys, and the application for accreditation.

ADS was originally built by the Department of Applications and Data Analysis (now part of the Department of Information Services) in 2000 and went through a major redesign in 2012. During the redesign process, numerous disparate data systems were consolidated, and the underlying database structure was completely refactored. Resident records across programs were linked based on identifying information, and a single record was created at the database level for each individual. ADS, in this way, not only provides an annual look at every accredited Sponsoring Institution and program, but also serves as a system to track residents and fellows longitudinally throughout the course of their educational experience.

The ADS Annual Update is scheduled for Sponsoring Institutions and programs following the start of each academic year. At that time, programs must enter information on new residents/fellows, confirm the status of existing/graduating residents/fellows, and enter critical information regarding faculty members, scholarly activity, participating sites, and other major program changes. Sponsoring Institutions are also scheduled to participate and must respond to institutional review questions and update any personnel or participating site information. Capturing critical information at the start of the academic year allows the ACGME to facilitate the process of archiving Case Log procedures for graduating residents and fellows, schedule Milestones evaluations for all residents and fellows twice per academic year, and conduct the annual ACGME Resident/Fellow and Faculty Surveys. While the Annual Update occurs once a year, Sponsoring Institutions and programs are expected to keep their information up to date at all times. In this sense, ADS is currently the most comprehensive database of GME Sponsoring Institutions, programs, and physicians-in-training in the United States.

## Academic Year Reporting

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To create a comprehensive report on GME for the academic year, an annual snapshot of the database is taken at the end of each academic year, the results of which are summarized in this book. The trends shown here are based on the combination of these snapshots over time. This particularly affects the counts of withdrawn and newly accredited programs which may change following the publication of this report. The timing of the snapshot also affects the ACGME's ability to report on the graduating cohort, as this information is not fully available until after the fall Annual Update reporting is complete. It is for this reason that the graduates and residents/fellows leaving their programs are reported for the previous academic year (in this edition, the 2023-2024 academic year). Up-to-date information on individual Sponsoring Institutions and programs can be found on the ADS public website at <https://apps.acgme.org/ads/public/>.



# Definitions

*The definitions listed below clarify use of terms in this Data Resource Book only. These reflect the 2024-2025 academic year, and not necessarily changes to ACGME definitions or data collection terms relative to revised requirements. Additional terms, and in some cases more comprehensive and current definitions of terms included here, are included in the ACGME Glossary of Terms, found on the ACGME website (<http://www.acgme.org/About-Us/Policies-and-Related-Materials>).*

**Continuing GME Programs:** Continuing GME programs are those available to physicians only after successful completion of a pipeline program.

**Core Faculty:** In specialty programs, core faculty are faculty members, who must have a significant role in the education and supervision of residents and must devote a significant portion of their entire effort to resident education and/or administration, and must, as a component of their activities, teach, evaluate, and provide formative feedback to residents.

**Designated Institutional Official (DIO):** The individual in a Sponsoring Institution who has the authority and responsibility for all of that institution's ACGME-accredited program.

**Faculty Hours:** Number of hours per week that a faculty member devotes to the program's activities in the following:

- Clinical supervision of residents – Time spent supervising/watching residents/fellows during patient care activities. Includes bedside rounds, outpatient precepting, and operative supervision.
- Administration of the program – Program oversight; curriculum development; faculty, resident, and program evaluation, career counseling.
- Research/scholarly activity with residents – Mentoring and/or working with residents, peer-reviewed funding; publication of original research or review articles in peer-reviewed journals or chapters in textbooks; publication or presentation of case reports or clinical series at local, regional, or national professional and scientific society meetings, participation in national committees or educational organizations.
- Didactics/teaching with residents – Lectures, simulation, case discussions, and preparation time for and participation in journal clubs, conferences, lectures, simulation, case discussions, and manuscript editing with residents.

**International Medical Graduate (IMG):** A graduate of a medical school outside the United States and Canada. IMGs may be citizens of the United States who chose to be educated elsewhere or non-citizens who are admitted to the United States by US Immigration authorities.

**Osteopathic Recognition:** A determination of substantial compliance with the published Osteopathic Recognition Requirements, following a process of evaluation and peer review.

**Participating Site:** An organization, institution, or facility providing educational experiences or educational assignments/rotations for residents as part of an accredited program.

**Post-Graduate Year 1 (PGY-1):** Any graduate medical education position available to physicians immediately after their completion of medical school. These positions are also referred to as entry-level positions.

**Pipeline Specialties:** Specialties that lead to primary board certification. The net output of physicians over time from the graduate medical education system into clinical practice is determined by the number of positions available in pipeline specialties. See Appendix A.

**Program:** A structured educational experience in graduate medical education designed to conform to the Program Requirements of a particular specialty/subspecialty, the satisfactory completion of which may result in eligibility for board certification.

**Program Director:** The individual designated with authority and accountability for the operation of a residency/fellowship program.

**Program Year:** Refers to the current year of education (of an individual resident or fellow) within a specific program; this designation may or may not correspond to a resident's or fellow's post-graduate year.

**Review Committee:** A group comprised of volunteers that sets accreditation standards (requirements), provides peer evaluation of Sponsoring Institutions or programs to assess the degree to which these comply with the applicable published accreditation requirements, and confers an accreditation status on each Sponsoring Institution or program in its purview with regard to substantial compliance with those requirements. There are three types of Review Committee: specialty Review Committee, Transitional Year Review Committee, and Institutional Review Committee.

**Resident:** For the purposes of this publication only, this term is used to refer to any physician in a graduate medical education program, including both residents and fellows.

**Sponsoring Institution:** The organization (or entity) with ultimate financial and academic responsibility for one or more accredited graduate medical education programs, and that has the primary purpose of providing educational programs and/or health care services. Examples include a university, a medical school, a hospital, a school of public health, a health department, a public health agency, an organized health care delivery system, a medical examiner's office, a consortium, and an educational foundation.

**Specialty Group:** For analytic purposes, the grouping of specialties and subspecialties into one of four categories based on patient care focus: surgical; medical; hospital-based; and sponsor institution-based fellowship. See Appendix B.

**Specialty Program:** A structured educational experience in a field of medical practice following completion of medical school and, in some cases, prerequisite basic clinical education designed to conform to the Program Requirements of a particular specialty.

**Subspecialty Program:** A structured educational experience following completion of a prerequisite specialty program in graduate medical education designed to conform to the Program Requirements of a particular subspecialty area.

**Withdrawal of Accreditation:** The conclusion, whether voluntary or administrative, of accreditation status and services. See the *ACGME Manual of Policies and Procedures* for more details and specification. Decisions regarding withdrawal of accreditation may be made effective at any time during the academic year. Any program with a Withdrawal status effective prior to June 30, 2025 will be excluded from the count of accredited programs for Academic Year 2024-2025 in this edition of the *Data Resource Book*.

# A Program Accreditation

This section summarizes the accreditation statuses of currently accredited programs, as well as trends in the total number of accredited programs since the 2015-2016 academic year. This section also shows the pattern of accreditation statuses by specialty for all programs, newly accredited programs, and programs with loss of accreditation. Finally, the section includes information on the lengths of programs varying by specialty, as well as on programs that have achieved Osteopathic Recognition.

## **Accredited Programs by Status**

Of the 13,762 total accredited programs, 12,404 (5,380 specialty programs and 7,024 subspecialty programs) had a status of Continued Accreditation, accounting for 90.1% of programs. Only 143 programs (1.0%) had a status of Continued Accreditation with Warning, and an even smaller number, 30 (0.2%), had a status of Probationary Accreditation. Of the remaining programs, 1,134 (8.2%) had a status of = Initial Accreditation and 51 (0.4%) had a status of Withdrawal of Accreditation. Among specialty programs, the specialties with the highest percentage of programs with a Continued Accreditation with Warning status are:

- Thoracic surgery - independent (6.3%)
- Plastic surgery (6.1%)
- Plastic Surgery - integrated (5.6%)
- Thoracic surgery - integrated (5.6%)

Among specialty programs, the maximum number of programs with Probationary Accreditation was four. Surgery had four programs on probation; family medicine, internal medicine, and psychiatry each had three programs on probation. Plastic surgery – integrated, urology, and pediatrics each had two programs on probation. Those specialties with one program on probation were anesthesiology, obstetrics and gynecology, pathology-anatomic and clinical, physical medicine and rehabilitation, radiology – diagnostic, and thoracic surgery – independent.

## **Trends in Accredited Programs**

Since the 2020-2021 academic year, there has been a 10.8% increase in the total number of ACGME-accredited programs. This is primarily due to the transition to a single graduate medical education (GME) accreditation system. The following specialties had the highest five-year change in total number of programs:

- Family medicine (107)
- Internal medicine (102)
- Psychiatry (66)

- Neurology (27)
- Anesthesiology (21)

## **Newly Accredited Programs**

A total of 457 programs were newly accredited during the 2024-2025 academic year. Of the newly accredited programs, 312 (68.3%) are in medical specialties and subspecialties, 85 (18.6%) are in hospital-based specialties and subspecialties, 56 (12.2%) are in surgical specialties and subspecialties, and four (0.8%) are in sponsor institution-based fellowship. The specialties with the highest number of newly accredited programs are:

- Family medicine (47)
- Internal medicine (41)
- Psychiatry (20)
- Anesthesiology (16)
- Emergency medicine (9)

Interventional pulmonology, pulmonary disease and critical care medicine, cardiovascular disease, neurocritical care (multidisciplinary), and critical care medicine had the highest number of new programs among all subspecialties, with 24, 15, 14, 13, and 12 programs, respectively, accounting for 17.1% of all newly accredited programs added this year. Six subspecialties have been newly accredited by the ACGME in the past five years: pediatric cardiac anesthesiology, pediatric dermatology, interventional pulmonology, neurocritical care (multidisciplinary), complex family planning, healthcare administration, leadership, and management. New programs in these six subspecialties (n=45) account for 18.1% of all new subspecialty programs.

## **Withdrawn Programs**

Withdrawn programs are reported in three categories: those withdrawn prior to the end of the 2024-2025 academic year (which are not included in the population of accredited programs); those withdrawn at the end of the 2024-2025 academic year; and those with a future-effective withdrawal date. At the time of this report, there were a total of 45 programs with accreditation withdrawn at academic year end, 28 of those in specialties or subspecialties with more than 1 program withdrawal. Among those specialty programs, family medicine had seven withdrawn programs; emergency medicine had four withdrawn programs; internal medicine had three withdrawn programs. Obstetrics and gynecology, surgery, and transitional year each had two withdrawn programs. Among subspecialties, sports medicine had four

withdrawn programs, and both infectious disease and nephrology each had two withdrawn programs,

### **Length of Accredited Education and Training**

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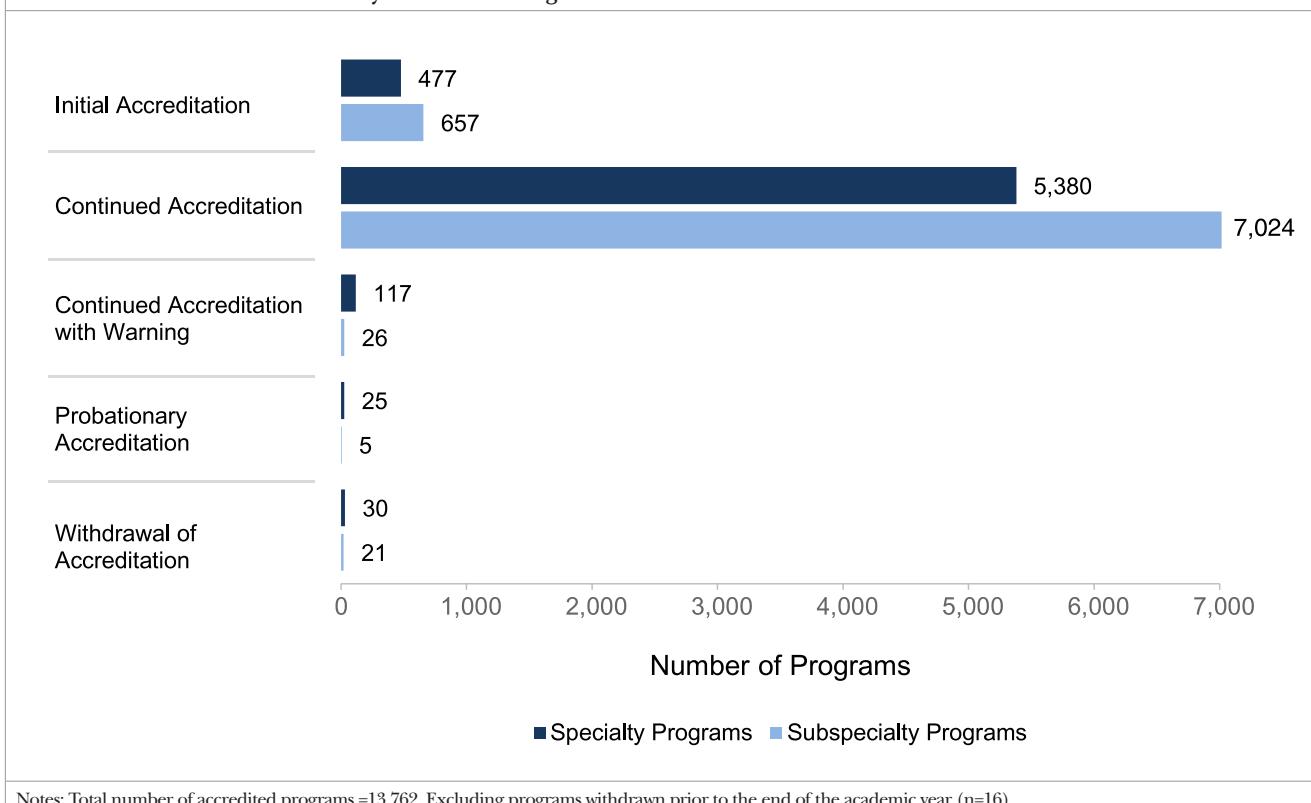
Length of training for the majority of specialty programs is three or four years. At seven years, neurological surgery has the longest educational program length among specialty programs. Among subspecialty programs, 7,733 (52.7%) are one year in length, with the remaining programs requiring two or more years to complete. The internal medicine subspecialties of advanced heart failure and transplant cardiology, clinical cardiac electrophysiology, interventional cardiology, and transplant hepatology all require the completion of another subspecialty

program prior to entry. These four subspecialties, along with the subspecialties of endovascular surgical neuroradiology, pediatric transplant hepatology, craniofacial surgery, and congenital cardiac surgery, require six to seven total years of prior education and training before entry.

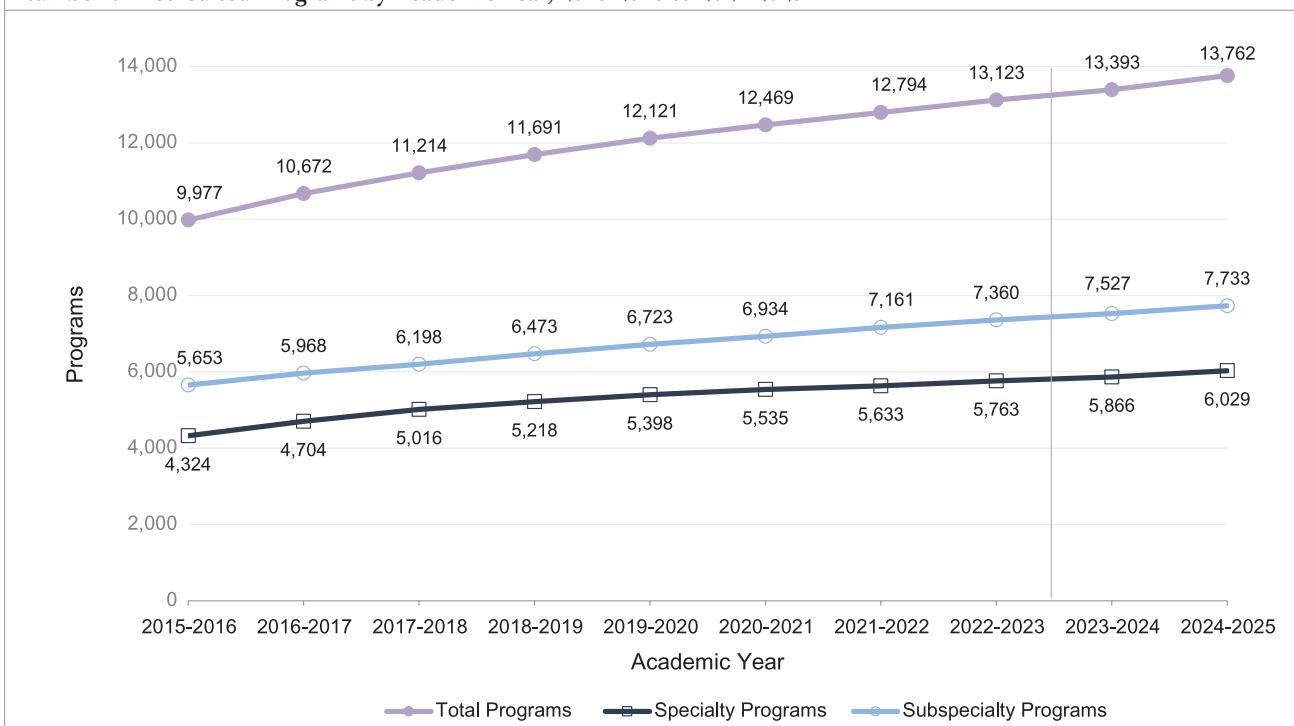
### **Osteopathic Recognition**

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The 2024-2025 academic year is the ninth year that the ACGME has recognized education and training in Osteopathic Principles and Practice in ACGME-accredited programs. Of the 276 programs with Osteopathic Recognition, 189 (68.5%) are family medicine programs and 28 (10.1%) are internal medicine programs.  $\wedge$

**FIGURE A.1****Accreditation Statuses of Currently Accredited Programs**

Notes: Total number of accredited programs =13,762. Excluding programs withdrawn prior to the end of the academic year (n=16).

**FIGURE A.2****Number of Accredited Programs by Academic Year, 2015-2016 to 2024-2025**

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

TABLE A.3

## Accreditation Statuses of Currently Accredited Programs by Specialty and Subspecialty

Specialty	Total Programs	Accreditation Status									
		Initial Accreditation		Continued Accreditation		Continued Accreditation with Warning		Probationary Accreditation		Withdrawal of Accreditation	
		#	%	#	%	#	%	#	%	#	%
OVERALL	13,762	1,134	8.2%	12,404	90.1%	143	1.0%	30	0.2%	51	0.4%
TOTAL PIPELINE	5,622	422	7.5%	5,044	89.7%	104	1.8%	24	0.4%	28	0.5%
Allergy and immunology	92	5	5.4%	87	94.6%	0	0.0%	0	0.0%	0	0.0%
Anesthesiology	182	23	12.6%	150	82.4%	8	4.4%	1	0.5%	0	0.0%
- Adult cardiothoracic anesthesiology	76	2	2.6%	74	97.4%	0	0.0%	0	0.0%	0	0.0%
- Critical care medicine	68	3	4.4%	65	95.6%	0	0.0%	0	0.0%	0	0.0%
- Obstetric anesthesiology	45	4	8.9%	41	91.1%	0	0.0%	0	0.0%	0	0.0%
- Pain medicine (multidisciplinary)	118	6	5.1%	112	94.9%	0	0.0%	0	0.0%	0	0.0%
- Pediatric anesthesiology	64	3	4.7%	61	95.3%	0	0.0%	0	0.0%	0	0.0%
- Pediatric cardiac anesthesiology	15	12	80.0%	3	20.0%	0	0.0%	0	0.0%	0	0.0%
- Regional anesthesiology and acute pain medicine	46	4	8.7%	42	91.3%	0	0.0%	0	0.0%	0	0.0%
Colon and rectal surgery	74	7	9.5%	64	86.5%	3	4.1%	0	0.0%	0	0.0%
Dermatology	145	2	1.4%	139	95.9%	3	2.1%	0	0.0%	1	0.7%
- Dermatopathology (multidisciplinary)	58	2	3.4%	56	96.6%	0	0.0%	0	0.0%	0	0.0%
- Micrographic surgery and dermatologic oncology	84	9	10.7%	73	86.9%	1	1.2%	0	0.0%	1	1.2%
- Pediatric dermatology	37	10	27.0%	27	73.0%	0	0.0%	0	0.0%	0	0.0%
Emergency medicine	297	20	6.7%	263	88.6%	10	3.4%	0	0.0%	4	1.3%
- Emergency medical services	88	11	12.5%	76	86.4%	1	1.1%	0	0.0%	0	0.0%
- Medical toxicology	32	4	12.5%	28	87.5%	0	0.0%	0	0.0%	0	0.0%
- Pediatric emergency medicine	30	0	0.0%	30	100.0%	0	0.0%	0	0.0%	0	0.0%
- Sports medicine	11	1	9.1%	10	90.9%	0	0.0%	0	0.0%	0	0.0%
- Undersea and hyperbaric medicine	8	0	0.0%	8	100.0%	0	0.0%	0	0.0%	0	0.0%
Family medicine	817	83	10.2%	706	86.4%	15	1.8%	3	0.4%	10	1.2%
- Clinical informatics	10	2	20.0%	8	80.0%	0	0.0%	0	0.0%	0	0.0%
- Geriatric medicine	44	3	6.8%	41	93.2%	0	0.0%	0	0.0%	0	0.0%
- Hospice and palliative medicine (multidisciplinary)	190	13	6.8%	176	92.6%	0	0.0%	0	0.0%	1	0.5%
- Sports medicine	173	11	6.4%	157	90.8%	0	0.0%	0	0.0%	0	2.9%
Internal medicine	688	85	12.4%	594	86.3%	3	0.4%	3	0.4%	3	0.4%
- Adult congenital heart disease	32	7	21.9%	25	78.1%	0	0.0%	0	0.0%	0	0.0%
- Advanced heart failure and transplant cardiology	84	1	1.2%	83	98.8%	0	0.0%	0	0.0%	0	0.0%
- Cardiovascular disease	294	28	9.5%	263	89.5%	2	0.7%	1	0.3%	0	0.0%
- Clinical cardiac electrophysiology	122	7	5.7%	114	93.4%	1	0.8%	0	0.0%	0	0.0%
- Clinical informatics	31	1	3.2%	29	93.5%	0	0.0%	0	0.0%	1	3.2%
- Critical care medicine	79	18	22.8%	60	75.9%	0	0.0%	0	0.0%	1	1.3%
- Endocrinology, diabetes, and metabolism	163	7	4.3%	156	95.7%	0	0.0%	0	0.0%	0	0.0%
- Gastroenterology	242	24	9.9%	216	89.3%	1	0.4%	1	0.4%	0	0.0%
- Geriatric medicine	118	2	1.7%	115	97.5%	0	0.0%	0	0.0%	1	0.8%
- Hematology and medical oncology	195	20	10.3%	174	89.2%	1	0.5%	0	0.0%	0	0.0%
- Infectious disease	170	8	4.7%	159	93.5%	0	0.0%	1	0.6%	2	1.2%
- Interventional cardiology	189	12	6.3%	177	93.7%	0	0.0%	0	0.0%	0	0.0%
- Interventional pulmonology	41	41	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
- Medical oncology	1	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%
- Nephrology	152	5	3.3%	144	94.7%	1	0.7%	0	0.0%	2	1.3%
- Pulmonary disease	16	2	12.5%	14	87.5%	0	0.0%	0	0.0%	0	0.0%
- Pulmonary disease and critical care medicine	219	24	11.0%	195	89.0%	0	0.0%	0	0.0%	0	0.0%
- Rheumatology	138	10	7.2%	128	92.8%	0	0.0%	0	0.0%	0	0.0%
- Sleep medicine (multidisciplinary)	99	7	7.1%	92	92.9%	0	0.0%	0	0.0%	0	0.0%
- Transplant hepatology	70	5	7.1%	65	92.9%	0	0.0%	0	0.0%	0	0.0%
Medical genetics and genomics	44	1	2.3%	43	97.7%	0	0.0%	0	0.0%	0	0.0%
- Medical biochemical genetics	22	2	9.1%	20	90.9%	0	0.0%	0	0.0%	0	0.0%
- Molecular genetic pathology (multidisciplinary)	44	3	6.8%	41	93.2%	0	0.0%	0	0.0%	0	0.0%
Clinical biochemical genetics	14	0	0.0%	13	92.9%	0	0.0%	0	0.0%	1	7.1%
Laboratory genetics and genomics	38	4	10.5%	34	89.5%	0	0.0%	0	0.0%	0	0.0%
Neurological surgery	119	2	1.7%	112	94.1%	5	4.2%	0	0.0%	0	0.0%
- Neuroendovascular intervention	3	0	0.0%	3	100.0%	0	0.0%	0	0.0%	0	0.0%

TABLE A.3 *Continued*

## Accreditation Statuses of Currently Accredited Programs by Specialty and Subspecialty

Specialty	Total Programs	Accreditation Status									
		Initial Accreditation		Continued Accreditation		Continued Accreditation with Warning		Probationary Accreditation		Withdrawal of Accreditation	
		#	%	#	%	#	%	#	%	#	%
Neurology	197	22	11.2%	173	87.8%	2	1.0%	0	0.0%	0	0.0%
- Clinical neurophysiology	98	5	5.1%	93	94.9%	0	0.0%	0	0.0%	0	0.0%
- Epilepsy	100	9	9.0%	91	91.0%	0	0.0%	0	0.0%	0	0.0%
- Neurocritical care (multidisciplinary)	65	57	87.7%	8	12.3%	0	0.0%	0	0.0%	0	0.0%
- Neuroendovascular intervention	2	0	0.0%	2	100.0%	0	0.0%	0	0.0%	0	0.0%
- Neurodevelopmental disabilities	11	3	27.3%	8	72.7%	0	0.0%	0	0.0%	0	0.0%
- Neuromuscular medicine	59	6	10.2%	53	89.8%	0	0.0%	0	0.0%	0	0.0%
- Vascular neurology	115	3	2.6%	112	97.4%	0	0.0%	0	0.0%	0	0.0%
Child neurology	83	5	6.0%	78	94.0%	0	0.0%	0	0.0%	0	0.0%
Nuclear medicine	33	0	0.0%	32	97.0%	1	3.0%	0	0.0%	0	0.0%
Obstetrics and gynecology	303	14	4.6%	278	91.7%	8	2.6%	1	0.3%	2	0.7%
- Urogynecology and reconstructive pelvic surgery	59	5	8.5%	54	91.5%	0	0.0%	0	0.0%	0	0.0%
- Gynecologic oncology	75	9	12.0%	66	88.0%	0	0.0%	0	0.0%	0	0.0%
- Maternal-fetal medicine	114	12	10.5%	102	89.5%	0	0.0%	0	0.0%	0	0.0%
- Reproductive endocrinology and infertility	52	4	7.7%	48	92.3%	0	0.0%	0	0.0%	0	0.0%
- Complex family planning	36	7	19.4%	29	80.6%	0	0.0%	0	0.0%	0	0.0%
Ophthalmology	128	4	3.1%	121	94.5%	2	1.6%	0	0.0%	1	0.8%
- Ophthalmic plastic and reconstructive surgery	4	0	0.0%	4	100.0%	0	0.0%	0	0.0%	0	0.0%
Orthopaedic surgery	209	4	1.9%	200	95.7%	4	1.9%	0	0.0%	1	0.5%
- Adult reconstructive orthopaedics	26	2	7.7%	24	92.3%	0	0.0%	0	0.0%	0	0.0%
- Foot and ankle orthopaedics	9	1	11.1%	8	88.9%	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	77	5	6.5%	72	93.5%	0	0.0%	0	0.0%	0	0.0%
- Musculoskeletal oncology	12	0	0.0%	11	91.7%	0	0.0%	0	0.0%	1	8.3%
- Orthopaedic sports medicine	95	4	4.2%	90	94.7%	0	0.0%	1	1.1%	0	0.0%
- Orthopaedic surgery of the spine	16	1	6.3%	15	93.8%	0	0.0%	0	0.0%	0	0.0%
- Orthopaedic trauma	13	1	7.7%	12	92.3%	0	0.0%	0	0.0%	0	0.0%
- Pediatric orthopaedics	25	1	4.0%	24	96.0%	0	0.0%	0	0.0%	0	0.0%
Osteopathic neuromusculoskeletal medicine	26	2	7.7%	23	88.5%	1	3.8%	0	0.0%	0	0.0%
Otolaryngology - head and neck surgery	131	1	0.8%	130	99.2%	0	0.0%	0	0.0%	0	0.0%
- Neurotology	29	0	0.0%	29	100.0%	0	0.0%	0	0.0%	0	0.0%
- Pediatric otolaryngology	34	3	8.8%	31	91.2%	0	0.0%	0	0.0%	0	0.0%
Pathology-anatomic and clinical	142	5	3.5%	134	94.4%	2	1.4%	1	0.7%	0	0.0%
- Blood banking/transfusion medicine	57	6	10.5%	51	89.5%	0	0.0%	0	0.0%	0	0.0%
- Clinical informatics	10	0	0.0%	10	100.0%	0	0.0%	0	0.0%	0	0.0%
- Chemical pathology	4	0	0.0%	4	100.0%	0	0.0%	0	0.0%	0	0.0%
- Cytopathology	91	1	1.1%	90	98.9%	0	0.0%	0	0.0%	0	0.0%
- Forensic pathology	52	8	15.4%	44	84.6%	0	0.0%	0	0.0%	0	0.0%
- Hematopathology	86	1	1.2%	85	98.8%	0	0.0%	0	0.0%	0	0.0%
- Medical microbiology	16	1	6.3%	15	93.8%	0	0.0%	0	0.0%	0	0.0%
- Neuropathology	41	2	4.9%	39	95.1%	0	0.0%	0	0.0%	0	0.0%
- Pediatric pathology	27	0	0.0%	27	100.0%	0	0.0%	0	0.0%	0	0.0%
- Selective pathology	134	18	13.4%	116	86.6%	0	0.0%	0	0.0%	0	0.0%
Pediatrics	217	6	2.8%	208	95.9%	0	0.0%	2	0.9%	1	0.5%
- Adolescent medicine	33	1	3.0%	32	97.0%	0	0.0%	0	0.0%	0	0.0%
- Child abuse pediatrics	34	2	5.9%	31	91.2%	1	2.9%	0	0.0%	0	0.0%
- Clinical informatics	11	2	18.2%	9	81.8%	0	0.0%	0	0.0%	0	0.0%
- Developmental-behavioral pediatrics	46	2	4.3%	44	95.7%	0	0.0%	0	0.0%	0	0.0%
- Neonatal-perinatal medicine	110	0	0.0%	109	99.1%	1	0.9%	0	0.0%	0	0.0%
- Pediatric cardiology	64	1	1.6%	63	98.4%	0	0.0%	0	0.0%	0	0.0%
- Pediatric critical care medicine	78	2	2.6%	75	96.2%	1	1.3%	0	0.0%	0	0.0%
- Pediatric emergency medicine	60	4	6.7%	56	93.3%	0	0.0%	0	0.0%	0	0.0%
- Pediatric endocrinology	72	3	4.2%	69	95.8%	0	0.0%	0	0.0%	0	0.0%
- Pediatric gastroenterology	69	2	2.9%	66	95.7%	1	1.4%	0	0.0%	0	0.0%
- Pediatric hematology/oncology	79	2	2.5%	77	97.5%	0	0.0%	0	0.0%	0	0.0%
- Pediatric infectious diseases	65	2	3.1%	63	96.9%	0	0.0%	0	0.0%	0	0.0%

TABLE A.3 *Continued*

## Accreditation Statuses of Currently Accredited Programs by Specialty and Subspecialty

Specialty	Total Programs	Accreditation Status									
		Initial Accreditation		Continued Accreditation		Continued Accreditation with Warning		Probationary Accreditation		Withdrawal of Accreditation	
		#	%	#	%	#	%	#	%	#	%
- Pediatric nephrology	49	1	2.0%	47	95.9%	0	0.0%	0	0.0%	1	2.0%
- Pediatric pulmonology	58	1	1.7%	57	98.3%	0	0.0%	0	0.0%	0	0.0%
- Pediatric rheumatology	39	2	5.1%	37	94.9%	0	0.0%	0	0.0%	0	0.0%
- Sports medicine	17	0	0.0%	17	100.0%	0	0.0%	0	0.0%	0	0.0%
- Pediatric transplant hepatology	17	0	0.0%	17	100.0%	0	0.0%	0	0.0%	0	0.0%
- Pediatric hospital medicine	80	13	16.3%	67	83.8%	0	0.0%	0	0.0%	0	0.0%
Physical medicine and rehabilitation	112	11	9.8%	98	87.5%	2	1.8%	1	0.9%	0	0.0%
- Brain injury medicine	29	1	3.4%	27	93.1%	0	0.0%	0	0.0%	1	3.4%
- Neuromuscular medicine	1	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%
- Spinal cord injury medicine	26	1	3.8%	24	92.3%	0	0.0%	0	0.0%	1	3.8%
- Pediatric rehabilitation medicine	24	2	8.3%	22	91.7%	0	0.0%	0	0.0%	0	0.0%
- Sports medicine	24	0	0.0%	24	100.0%	0	0.0%	0	0.0%	0	0.0%
Plastic surgery	49	5	10.2%	41	83.7%	3	6.1%	0	0.0%	0	0.0%
- Craniofacial surgery	9	1	11.1%	8	88.9%	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	19	1	5.3%	18	94.7%	0	0.0%	0	0.0%	0	0.0%
Plastic Surgery - integrated	89	2	2.2%	80	89.9%	5	5.6%	2	2.2%	0	0.0%
Public health and general preventive medicine	40	1	2.5%	39	97.5%	0	0.0%	0	0.0%	0	0.0%
- Undersea and hyperbaric medicine	1	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%
Aerospace medicine	5	0	0.0%	5	100.0%	0	0.0%	0	0.0%	0	0.0%
Occupational and environmental medicine	22	0	0.0%	21	95.5%	0	0.0%	0	0.0%	1	4.5%
Psychiatry	353	61	17.3%	289	81.9%	0	0.0%	3	0.8%	0	0.0%
- Addiction medicine (multidisciplinary)	108	18	16.7%	90	83.3%	0	0.0%	0	0.0%	0	0.0%
- Addiction psychiatry	54	2	3.7%	52	96.3%	0	0.0%	0	0.0%	0	0.0%
- Child and adolescent psychiatry	158	7	4.4%	151	95.6%	0	0.0%	0	0.0%	0	0.0%
- Forensic psychiatry	60	14	23.3%	45	75.0%	0	0.0%	0	0.0%	1	1.7%
- Geriatric psychiatry	60	1	1.7%	59	98.3%	0	0.0%	0	0.0%	0	0.0%
- Consultation-liaison psychiatry	69	5	7.2%	63	91.3%	0	0.0%	0	0.0%	1	1.4%
Radiation oncology	87	0	0.0%	84	96.6%	2	2.3%	0	0.0%	1	1.1%
Radiology-diagnostic	200	4	2.0%	194	97.0%	1	0.5%	1	0.5%	0	0.0%
- Abdominal radiology	13	0	0.0%	13	100.0%	0	0.0%	0	0.0%	0	0.0%
- Musculoskeletal radiology	23	5	21.7%	18	78.3%	0	0.0%	0	0.0%	0	0.0%
- Neuroendovascular intervention	5	2	40.0%	3	60.0%	0	0.0%	0	0.0%	0	0.0%
- Neuroradiology	93	2	2.2%	91	97.8%	0	0.0%	0	0.0%	0	0.0%
- Nuclear radiology	19	2	10.5%	17	89.5%	0	0.0%	0	0.0%	0	0.0%
- Pediatric radiology	48	3	6.3%	45	93.8%	0	0.0%	0	0.0%	0	0.0%
Interventional radiology - independent	91	1	1.1%	89	97.8%	0	0.0%	0	0.0%	1	1.1%
Interventional radiology - integrated	101	10	9.9%	91	90.1%	0	0.0%	0	0.0%	0	0.0%
Surgery	365	27	7.4%	316	86.6%	16	4.4%	4	1.1%	2	0.5%
- Complex general surgical oncology	35	3	8.6%	30	85.7%	1	2.9%	1	2.9%	0	0.0%
- Hand surgery	2	0	0.0%	2	100.0%	0	0.0%	0	0.0%	0	0.0%
- Pediatric surgery	52	1	1.9%	48	92.3%	3	5.8%	0	0.0%	0	0.0%
- Surgical critical care	171	16	9.4%	152	88.9%	3	1.8%	0	0.0%	0	0.0%
- Vascular surgery - independent	123	8	6.5%	109	88.6%	6	4.9%	0	0.0%	0	0.0%
Vascular surgery - integrated	81	12	14.8%	66	81.5%	3	3.7%	0	0.0%	0	0.0%
Thoracic surgery - independent	79	5	6.3%	68	86.1%	5	6.3%	1	1.3%	0	0.0%
- Congenital cardiac surgery	17	0	0.0%	17	100.0%	0	0.0%	0	0.0%	0	0.0%
Thoracic surgery - integrated	36	2	5.6%	32	88.9%	2	5.6%	0	0.0%	0	0.0%
Urology	152	6	3.9%	139	91.4%	5	3.3%	2	1.3%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	16	1	6.3%	14	87.5%	1	6.3%	0	0.0%	0	0.0%
- Pediatric urology	28	2	7.1%	26	92.9%	0	0.0%	0	0.0%	0	0.0%
Transitional year	201	35	17.4%	159	79.1%	5	2.5%	0	0.0%	2	1.0%
Internal medicine/Pediatrics	78	1	1.3%	76	97.4%	1	1.3%	0	0.0%	0	0.0%
Health care administration, leadership, and management	9	9	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

Notes: Pipeline specialties are highlighted. Program counts exclude programs withdrawn prior to the end of the academic year (n=16).

TABLE A.4

## Number of Programs by Specialty and Subspecialty and Academic Year, 2020-2021 to 2024-2025

Specialty	Academic Year					5-Year Change	
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025		
	#	#	#	#	#	#	%
OVERALL	12,420	12,740	13,066	13,393	13,762	1,213	10.8%
TOTAL PIPELINE	5,187	5,270	5,382	5,474	5,622	407	8.4%
Allergy and immunology	82	84	87	90	92	10	12.2%
Anesthesiology	161	166	165	167	182	21	13.0%
- Adult cardiothoracic anesthesiology	73	74	75	75	76	3	4.1%
- Clinical informatics	1	1				N/A	N/A
- Critical care medicine	64	64	65	67	68	4	6.3%
- Obstetric anesthesiology	41	41	41	41	45	4	9.8%
- Pain medicine (multidisciplinary)	111	114	115	118	118	7	6.3%
- Pediatric anesthesiology	60	61	62	61	64	4	6.7%
- Pediatric cardiac anesthesiology *			15	15	15	0	0.0%
- Regional anesthesiology and acute pain medicine	38	40	42	44	46	8	21.1%
Colon and rectal surgery	66	67	68	71	74	8	12.1%
Dermatology	144	143	144	143	145	1	0.7%
- Dermatopathology (multidisciplinary)	58	57	57	57	58	0	0.0%
- Micrographic surgery and dermatologic oncology	78	77	81	85	84	6	7.7%
- Pediatric dermatology*		17	29	34	37	20	117.6%
Emergency medicine	276	279	287	289	297	21	7.6%
- Clinical informatics	5	5				N/A	N/A
- Emergency medical services	75	79	83	83	88	13	17.3%
- Medical toxicology	27	28	30	32	32	5	18.5%
- Pediatric emergency medicine	27	29	29	29	30	3	11.1%
- Sports medicine	9	10	9	8	11	2	22.2%
- Undersea and hyperbaric medicine	8	8	8	8	8	0	0.0%
Family medicine	710	722	756	778	817	107	15.1%
- Clinical informatics	6	7	8	8	10	4	66.7%
- Geriatric medicine	49	46	46	44	44	-5	-10.2%
- Hospice and palliative medicine (multidisciplinary)	180	187	191	190	190	10	5.6%
- Sports medicine	156	161	171	174	173	17	10.9%
Internal medicine	586	601	627	651	688	102	17.4%
- Adult congenital heart disease	24	26	27	30	32	8	33.3%
- Advanced heart failure and transplant cardiology	82	86	84	85	84	2	2.4%
- Cardiovascular disease	255	268	273	281	294	39	15.3%
- Clinical cardiac electrophysiology	112	115	116	118	122	10	8.9%
- Clinical informatics	19	23	32	32	31	12	63.2%
- Critical care medicine	55	62	66	67	79	24	43.6%
- Endocrinology, diabetes, and metabolism	153	157	159	161	163	10	6.5%
- Gastroenterology	211	222	229	238	242	31	14.7%
- Geriatric medicine	114	117	119	120	118	4	3.5%
- Hematology	2	2				N/A	N/A
- Hematology and medical oncology	172	180	184	187	195	23	13.4%
- Infectious disease	158	163	167	168	170	12	7.6%
- Interventional cardiology	170	177	180	183	189	19	11.2%
- Interventional pulmonology*				17	41	24	141.2%
- Medical oncology	6	5	3	2	1	-5	-83.3%
- Nephrology	152	151	152	151	152	0	0.0%
- Pulmonary disease	20	22	22	19	16	-4	-20.0%
- Pulmonary disease and critical care medicine	188	196	202	204	219	31	16.5%
- Rheumatology	125	128	129	133	138	13	10.4%
- Sleep medicine (multidisciplinary)	89	92	96	98	99	10	11.2%
- Transplant hepatology	59	62	66	68	70	11	18.6%
Medical genetics and genomics	46	45	47	47	44	-2	-4.3%
- Medical biochemical genetics	20	20	22	22	22	2	10.0%
- Molecular genetic pathology (multidisciplinary)	42	42	42	43	44	2	4.8%
Clinical biochemical genetics*				15	14	-1	-6.7%
Laboratory genetics and genomics*				38	38	0	0.0%
Neurological surgery	116	118	117	118	119	3	2.6%
- Neuroendovascular intervention	2	3	3	3	3	1	50.0%

**TABLE A.4 Continued****Number of Programs by Specialty and Subspecialty and Academic Year, 2020-2021 to 2024-2025**

Specialty	Academic Year					5-Year Change	
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025		
	#	#	#	#	#	#	%
Neurology	170	175	180	188	197	27	15.9%
- Brain injury medicine	1	1				N/A	N/A
- Clinical neurophysiology	93	94	95	97	98	5	5.4%
- Epilepsy	85	93	95	99	100	15	17.6%
- Neurocritical care (multidisciplinary)*		7	35	52	65	58	828.6%
- Neuroendovascular intervention	2	2	2	2	2	0	0.0%
- Neurodevelopmental disabilities	8	8	8	10	11	3	37.5%
- Neuromuscular medicine	53	55	55	57	59	6	11.3%
- Vascular neurology	109	112	112	114	115	6	5.5%
Child neurology	77	79	80	81	83	6	7.8%
Nuclear medicine	37	37	36	36	33	-4	-10.8%
Obstetrics and gynecology	294	299	302	295	303	9	3.1%
- Urogynecology and reconstructive pelvic surgery	54	55	57	58	59	5	9.3%
- Gynecologic oncology	63	67	71	74	75	12	19.0%
- Maternal-fetal medicine	100	101	104	109	114	14	14.0%
- Reproductive endocrinology and infertility	49	49	49	52	52	3	6.1%
- Complex family planning*	26	29	32	35	36	10	38.5%
Ophthalmology	125	125	125	126	128	3	2.4%
- Ophthalmic plastic and reconstructive surgery	4	4	4	4	4	0	0.0%
Orthopaedic surgery	201	203	208	209	209	8	4.0%
- Adult reconstructive orthopaedics	25	24	25	26	26	1	4.0%
- Foot and ankle orthopaedics	7	8	8	9	9	2	28.6%
- Hand surgery	73	73	74	73	77	4	5.5%
- Musculoskeletal oncology	12	12	12	12	12	0	0.0%
- Orthopaedic sports medicine	93	93	93	93	95	2	2.2%
- Orthopaedic surgery of the spine	16	15	15	16	16	0	0.0%
- Orthopaedic trauma	12	12	12	12	13	1	8.3%
- Pediatric orthopaedics	25	24	25	24	25	0	0.0%
Osteopathic neuromusculoskeletal medicine	28	28	26	26	26	-2	-7.1%
Otolaryngology- head and neck surgery	125	129	131	131	131	6	4.8%
- Neurotology	26	28	29	29	29	3	11.5%
- Pediatric otolaryngology	31	34	34	34	34	3	9.7%
Pathology-anatomic and clinical	144	145	146	142	142	-2	-1.4%
- Blood banking/transfusion medicine	52	53	54	56	57	5	9.6%
- Clinical informatics	11	10	10	10	10	-1	-9.1%
- Chemical pathology	4	4	4	4	4	0	0.0%
- Cytopathology	93	92	93	92	91	-2	-2.2%
- Forensic pathology	45	45	49	50	52	7	15.6%
- Hematopathology	86	86	87	86	86	0	0.0%
- Medical microbiology	15	16	16	16	16	1	6.7%
- Neuropathology	38	39	40	40	41	3	7.9%
- Pediatric pathology	28	27	27	27	27	-1	-3.6%
- Selective pathology	109	116	124	131	134	25	22.9%
Pediatrics	210	212	213	218	217	7	3.3%
- Adolescent medicine	32	32	34	33	33	1	3.1%
- Child abuse pediatrics	31	31	32	33	34	3	9.7%
- Clinical informatics	8	9	9	10	11	3	37.5%
- Developmental-behavioral pediatrics	44	44	44	45	46	2	4.5%
- Neonatal-perinatal medicine	107	110	110	110	110	3	2.8%
- Pediatric cardiology	64	64	64	64	64	0	0.0%
- Pediatric critical care medicine	75	77	76	76	78	3	4.0%
- Pediatric emergency medicine	55	56	58	59	60	5	9.1%
- Pediatric endocrinology	72	72	73	72	72	0	0.0%
- Pediatric gastroenterology	67	67	67	67	69	2	3.0%
- Pediatric hematology/oncology	76	77	78	79	79	3	3.9%
- Pediatric infectious diseases	64	64	64	64	65	1	1.6%
- Pediatric nephrology	47	47	48	48	49	2	4.3%
- Pediatric pulmonology	56	57	57	57	58	2	3.6%

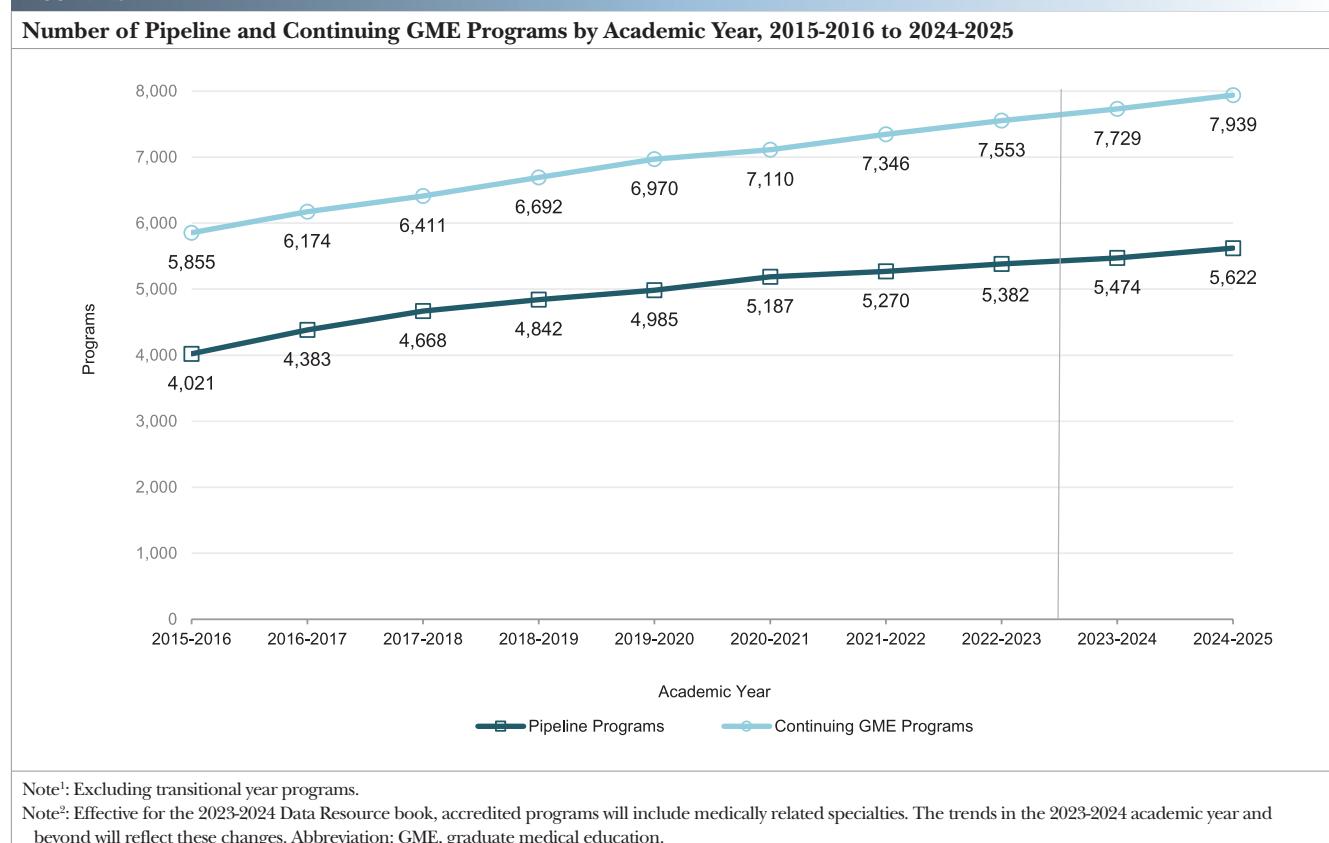
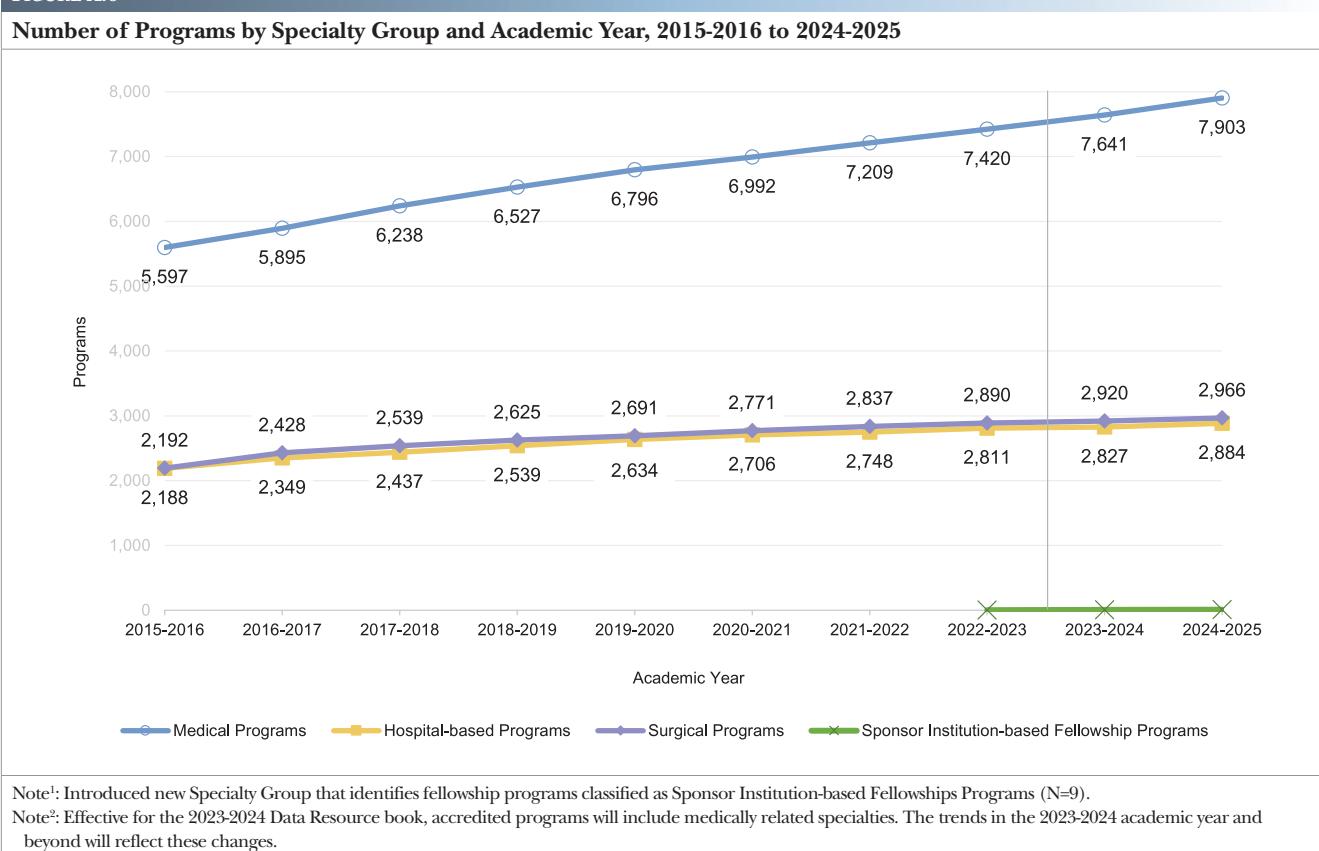
TABLE A.4 *Continued*

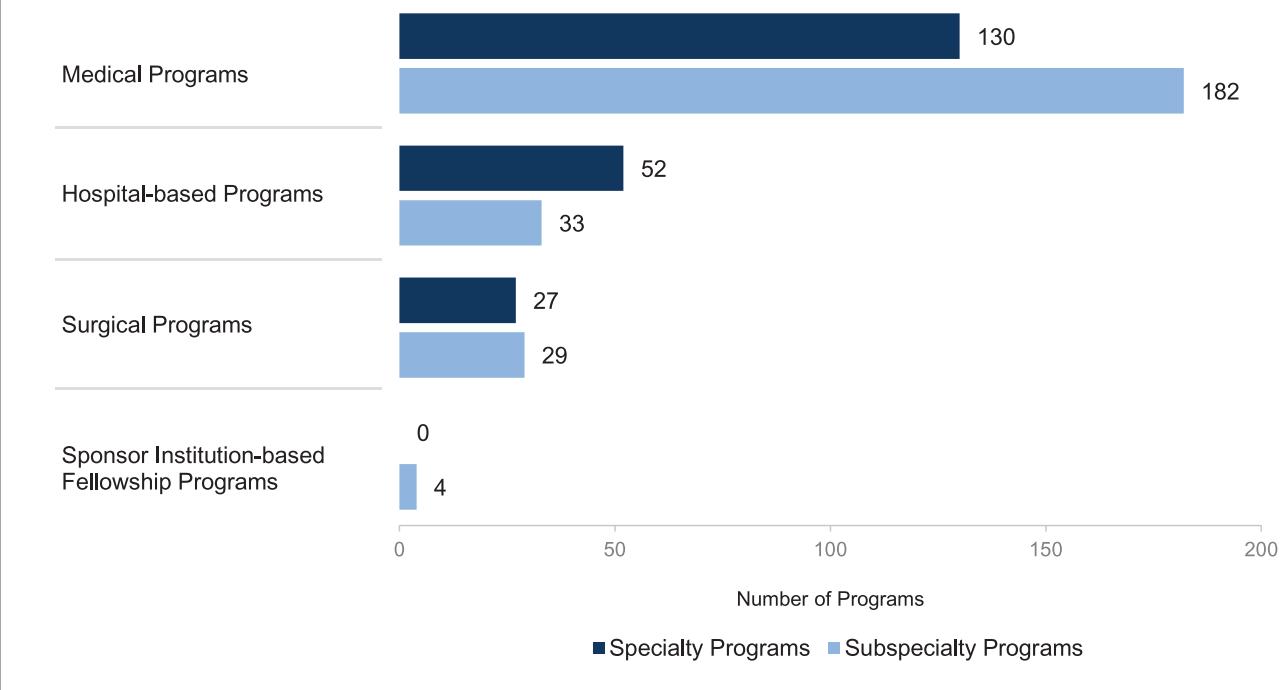
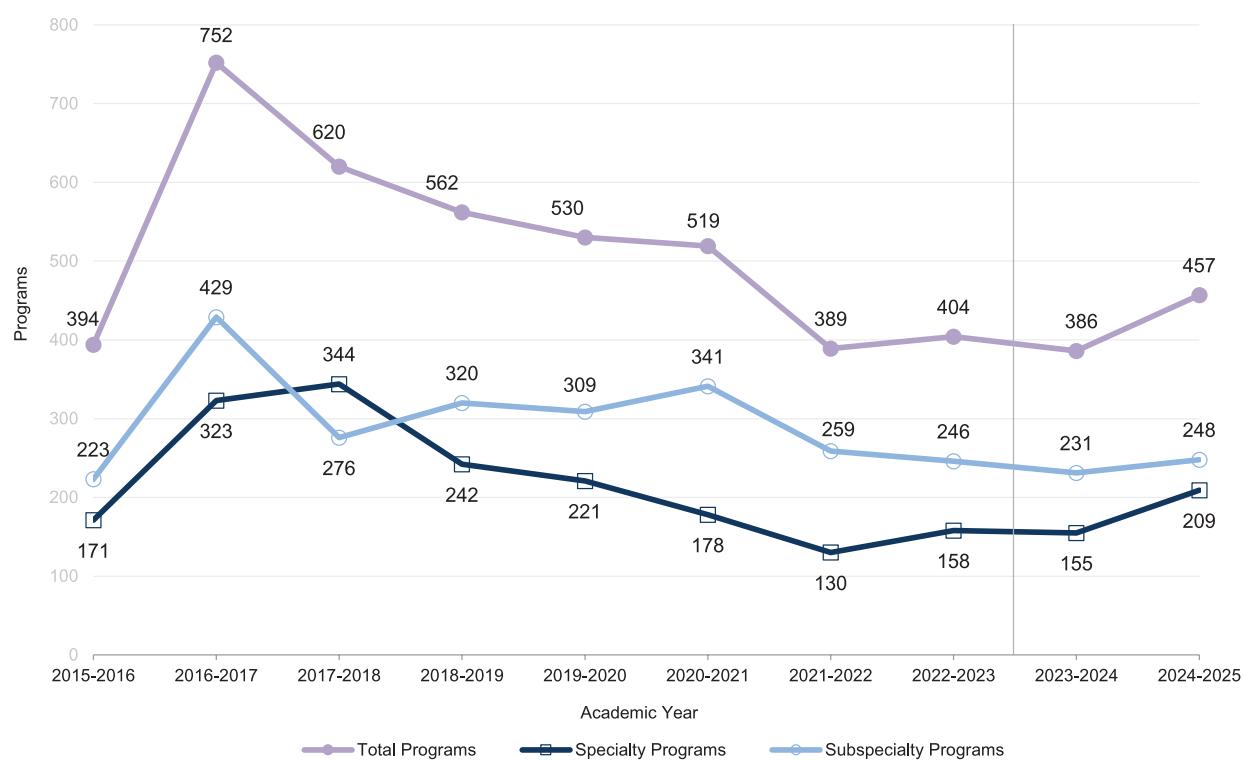
## Number of Programs by Specialty and Subspecialty and Academic Year, 2020-2021 to 2024-2025

Specialty	Academic Year					5-Year Change	
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025		
#	#	#	#	#	#	#	%
- Pediatric rheumatology	37	38	37	38	39	2	5.4%
- Sports medicine	17	17	17	17	17	0	0.0%
- Pediatric transplant hepatology	17	17	17	17	17	0	0.0%
- Pediatric hospital medicine	54	65	68	73	80	26	48.1%
Physical medicine and rehabilitation	98	100	101	108	112	14	14.3%
- Brain injury medicine	25	25	27	28	29	4	16.0%
- Neuromuscular medicine	1	1	1	1	1	0	0.0%
- Spinal cord injury medicine	24	24	26	26	26	2	8.3%
- Pediatric rehabilitation medicine	22	22	22	23	24	2	9.1%
- Sports medicine	21	22	22	24	24	3	14.3%
Plastic surgery	52	50	49	47	49	-3	-5.8%
- Craniofacial surgery	8	8	9	9	9	1	12.5%
- Hand surgery	17	18	19	19	19	2	11.8%
Plastic Surgery - integrated	86	88	89	89	89	3	3.5%
Public health and general preventive medicine	72	72	43	42	40	-32	-44.4%
- Undersea and hyperbaric medicine	1	1	1	1	1	0	0.0%
- Medical toxicology	1	1				N/A	N/A
Aerospace medicine*			5	5	5	0	0.0%
Occupational and environmental medicine*			23	23	22	-1	-4.3%
Psychiatry	287	294	304	334	353	66	23.0%
- Addiction medicine (multidisciplinary)	85	91	96	105	108	23	27.1%
- Addiction psychiatry	53	55	55	55	54	1	1.9%
- Child and adolescent psychiatry	146	152	153	155	158	12	8.2%
- Forensic psychiatry	49	49	49	53	60	11	22.4%
- Geriatric psychiatry	64	64	63	61	60	-4	-6.3%
- Consultation-liaison psychiatry	64	66	67	69	69	5	7.8%
Radiation oncology	91	90	90	89	87	-4	-4.4%
Radiology-diagnostic	196	197	199	197	200	4	2.0%
- Abdominal radiology	13	13	13	13	13	0	0.0%
- Musculoskeletal radiology	20	20	21	21	23	3	15.0%
- Neuroendovascular intervention	3	3	3	5	5	2	66.7%
- Neuroradiology	89	91	91	91	93	4	4.5%
- Nuclear radiology	18	18	19	20	19	1	5.6%
- Pediatric radiology	48	47	46	48	48	0	0.0%
- Vascular and interventional radiology						N/A	N/A
Interventional radiology - independent	95	95	94	91	91	-4	-4.2%
Interventional radiology - integrated	92	92	95	99	101	9	9.8%
Surgery	344	353	363	364	365	21	6.1%
- Complex general surgical oncology	31	33	34	34	35	4	12.9%
- Hand surgery	2	2	2	2	2	0	0.0%
- Pediatric surgery	51	51	51	52	52	1	2.0%
- Surgical critical care	145	156	162	165	171	26	17.9%
- Vascular surgery - independent	115	118	119	123	123	8	7.0%
Vascular surgery - integrated	67	73	76	78	81	14	20.9%
Thoracic surgery - independent	74	75	75	79	79	5	6.8%
- Congenital cardiac surgery	15	16	17	17	17	2	13.3%
Thoracic surgery - integrated	33	34	34	36	36	3	9.1%
Urology	145	148	150	150	152	7	4.8%
- Urogynecology and reconstructive pelvic surgery	15	16	17	16	16	1	6.7%
- Pediatric urology	26	26	26	27	28	2	7.7%
Transitional year	172	178	188	190	201	29	16.9%
Internal medicine/Pediatrics	79	78	77	77	78	-1	-1.3%
Health care administration, leadership, and management*			2	5	9	7	350.0%

Notes: Pipeline specialties are highlighted. Asterisks (\*) indicate specialties and subspecialties added within the last five years. For these specialties and subspecialties, the number and percent change are calculated from the first year of having accredited program

Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

**FIGURE A.5****Number of Pipeline and Continuing GME Programs by Academic Year, 2015-2016 to 2024-2025**Note<sup>1</sup>: Excluding transitional year programs.Note<sup>2</sup>: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes. Abbreviation: GME, graduate medical education.**FIGURE A.6****Number of Programs by Specialty Group and Academic Year, 2015-2016 to 2024-2025**Note<sup>1</sup>: Introduced new Specialty Group that identifies fellowship programs classified as Sponsor Institution-based Fellowships Programs (N=9).Note<sup>2</sup>: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

**FIGURE A.7****Number of Newly Accredited Programs by Specialty Group****FIGURE A.8****Number of Newly Accredited Programs by Academic Year, 2015-2016 to 2024-2025**

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

**TABLE A.9****Number of Newly Accredited Programs during the Academic Year by Specialty and Subspecialty**

Specialty	Total Programs	Newly Accredited Programs	Percentage of Specialty	Percent of All Newly Accredited Programs
OVERALL	13,762	457	3.3%	100.0%
TOTAL PIPELINE	5,622	184	3.3%	40.3%
Allergy and immunology	92	2	2.2%	0.4%
Anesthesiology	182	16	8.8%	3.5%
- Adult cardiothoracic anesthesiology	76	2	2.6%	0.4%
- Critical care medicine	68	1	1.5%	0.2%
- Obstetric anesthesiology	45	4	8.9%	0.9%
- Pain medicine (multidisciplinary)	118	0	0.0%	0.0%
- Pediatric anesthesiology	64	3	4.7%	0.7%
- Pediatric cardiac anesthesiology*	15	0	0.0%	0.0%
- Regional anesthesiology and acute pain medicine	46	2	4.3%	0.4%
Colon and rectal surgery	74	3	4.1%	0.7%
Dermatology	145	2	1.4%	0.4%
- Dermatopathology (multidisciplinary)	58	1	1.7%	0.2%
- Micrographic surgery and dermatologic oncology	84	1	1.2%	0.2%
- Pediatric dermatology*	37	3	8.1%	0.7%
Emergency medicine	297	9	3.0%	2.0%
- Emergency medical services	88	5	5.7%	1.1%
- Medical toxicology	32	0	0.0%	0.0%
- Pediatric emergency medicine	30	0	0.0%	0.0%
- Sports medicine	11	1	9.1%	0.2%
- Undersea and hyperbaric medicine	8	0	0.0%	0.0%
Family medicine	817	47	5.8%	10.3%
- Clinical informatics	10	2	20.0%	0.4%
- Geriatric medicine	44	1	2.3%	0.2%
- Hospice and palliative medicine (multidisciplinary)	190	2	1.1%	0.4%
- Sports medicine	173	6	3.5%	1.3%
Internal medicine	688	41	6.0%	9.0%
- Adult congenital heart disease	32	2	6.3%	0.4%
- Advanced heart failure and transplant cardiology	84	0	0.0%	0.0%
- Cardiovascular disease	294	14	4.8%	3.1%
- Clinical cardiac electrophysiology	122	4	3.3%	0.9%
- Clinical informatics	31	0	0.0%	0.0%
- Critical care medicine	79	12	15.2%	2.6%
- Endocrinology, diabetes, and metabolism	163	2	1.2%	0.4%
- Gastroenterology	242	5	2.1%	1.1%
- Geriatric medicine	118	0	0.0%	0.0%
- Hematology and medical oncology	195	8	4.1%	1.8%
- Infectious disease	170	3	1.8%	0.7%
- Interventional cardiology	189	6	3.2%	1.3%
- Interventional pulmonology*	41	24	58.5%	5.3%
- Medical oncology	1	0	0.0%	0.0%
- Nephrology	152	1	0.7%	0.2%
- Pulmonary disease	16	0	0.0%	0.0%
- Pulmonary disease and critical care medicine	219	15	6.8%	3.3%
- Rheumatology	138	5	3.6%	1.1%
- Sleep medicine (multidisciplinary)	99	1	1.0%	0.2%
- Transplant hepatology	70	2	2.9%	0.4%
Medical genetics and genomics	44	0	0.0%	0.0%
- Medical biochemical genetics	22	0	0.0%	0.0%
- Molecular genetic pathology (multidisciplinary)	44	1	2.3%	0.2%
Clinical biochemical genetics	14	0	0.0%	0.0%
Laboratory genetics and genomics	38	1	2.6%	0.2%
Neurological surgery	119	0	0.0%	0.0%
- Neuroendovascular intervention	3	0	0.0%	0.0%

TABLE A.9 *Continued*

## Number of Newly Accredited Programs during the Academic Year by Specialty and Subspecialty

Specialty	Total Programs	Newly Accredited Programs	Percentage of Specialty	Percent of All Newly Accredited Programs
Neurology	197	9	4.6%	2.0%
- Clinical neurophysiology	98	1	1.0%	0.2%
- Epilepsy	100	2	2.0%	0.4%
- Neurocritical care (multidisciplinary)*	65	13	20.0%	2.8%
- Neuroendovascular intervention	2	0	0.0%	0.0%
- Neurodevelopmental disabilities	11	1	9.1%	0.2%
- Neuromuscular medicine	59	4	6.8%	0.9%
- Vascular neurology	115	1	0.9%	0.2%
Child neurology	83	2	2.4%	0.4%
Nuclear medicine	33	0	0.0%	0.0%
Obstetrics and gynecology	303	9	3.0%	2.0%
- Urogynecology and reconstructive pelvic surgery	59	3	5.1%	0.7%
- Gynecologic oncology	75	1	1.3%	0.2%
- Maternal-fetal medicine	114	5	4.4%	1.1%
- Reproductive endocrinology and infertility	52	1	1.9%	0.2%
- Complex family planning*	36	1	2.8%	0.2%
Ophthalmology	128	2	1.6%	0.4%
- Ophthalmic plastic and reconstructive surgery	4	0	0.0%	0.0%
Orthopaedic surgery	209	1	0.5%	0.2%
- Adult reconstructive orthopaedics	26	0	0.0%	0.0%
- Foot and ankle orthopaedics	9	0	0.0%	0.0%
- Hand surgery	77	4	5.2%	0.9%
- Musculoskeletal oncology	12	0	0.0%	0.0%
- Orthopaedic sports medicine	95	3	3.2%	0.7%
- Orthopaedic surgery of the spine	16	0	0.0%	0.0%
- Orthopaedic trauma	13	1	7.7%	0.2%
- Pediatric orthopaedics	25	1	4.0%	0.2%
Osteopathic neuromusculoskeletal medicine	26	1	3.8%	0.2%
Otolaryngology- head and neck surgery	131	0	0.0%	0.0%
- Neurotology	29	0	0.0%	0.0%
- Pediatric otolaryngology	34	0	0.0%	0.0%
Pathology-anatomic and clinical	142	1	0.7%	0.2%
- Blood banking/transfusion medicine	57	2	3.5%	0.4%
- Clinical informatics	10	0	0.0%	0.0%
- Chemical pathology	4	0	0.0%	0.0%
- Cytopathology	91	0	0.0%	0.0%
- Forensic pathology	52	2	3.8%	0.4%
- Hematopathology	86	0	0.0%	0.0%
- Medical microbiology	16	1	6.3%	0.2%
- Neuropathology	41	1	2.4%	0.2%
- Pediatric pathology	27	0	0.0%	0.0%
- Selective pathology	134	3	2.2%	0.7%
Pediatrics	217	1	0.5%	0.2%
- Adolescent medicine	33	0	0.0%	0.0%
- Child abuse pediatrics	34	1	2.9%	0.2%
- Clinical informatics	11	1	9.1%	0.2%
- Developmental-behavioral pediatrics	46	1	2.2%	0.2%
- Neonatal-perinatal medicine	110	0	0.0%	0.0%
- Pediatric cardiology	64	0	0.0%	0.0%
- Pediatric critical care medicine	78	2	2.6%	0.4%
- Pediatric emergency medicine	60	2	3.3%	0.4%
- Pediatric endocrinology	72	0	0.0%	0.0%
- Pediatric gastroenterology	69	2	2.9%	0.4%
- Pediatric hematology/oncology	79	1	1.3%	0.2%
- Pediatric infectious diseases	65	2	3.1%	0.4%

**TABLE A.9 Continued****Number of Newly Accredited Programs during the Academic Year by Specialty and Subspecialty**

Specialty	Total Programs	Newly Accredited Programs	Percentage of Specialty	Percent of All Newly Accredited Programs
- Pediatric nephrology	49	1	2.0%	0.2%
- Pediatric pulmonology	58	1	1.7%	0.2%
- Pediatric rheumatology	39	1	2.6%	0.2%
- Sports medicine	17	0	0.0%	0.0%
- Pediatric transplant hepatology	17	0	0.0%	0.0%
- Pediatric hospital medicine	80	7	8.7%	1.5%
Physical medicine and rehabilitation	112	4	3.6%	0.9%
- Brain injury medicine	29	1	3.4%	0.2%
- Neuromuscular medicine	1	0	0.0%	0.0%
- Spinal cord injury medicine	26	0	0.0%	0.0%
- Pediatric rehabilitation medicine	24	1	4.2%	0.2%
- Sports medicine	24	0	0.0%	0.0%
Plastic surgery	49	2	4.1%	0.4%
- Craniofacial surgery	9	0	0.0%	0.0%
- Hand surgery	19	0	0.0%	0.0%
Plastic Surgery - integrated	89	0	0.0%	0.0%
Public health and general preventive medicine	40	0	0.0%	0.0%
- Undersea and hyperbaric medicine	1	0	0.0%	0.0%
Aerospace medicine*	5	0	0.0%	0.0%
Occupational and environmental medicine*	22	0	0.0%	0.0%
Psychiatry	353	20	5.7%	4.4%
- Addiction medicine (multidisciplinary)	108	5	4.6%	1.1%
- Addiction psychiatry	54	0	0.0%	0.0%
- Child and adolescent psychiatry	158	3	1.9%	0.7%
- Forensic psychiatry	60	7	11.7%	1.5%
- Geriatric psychiatry	60	0	0.0%	0.0%
- Consultation-liaison psychiatry	69	1	1.4%	0.2%
Radiation oncology	87	0	0.0%	0.0%
Radiology-diagnostic	200	3	1.5%	0.7%
- Abdominal radiology	13	0	0.0%	0.0%
- Musculoskeletal radiology	23	2	8.7%	0.4%
- Neuroendovascular intervention	5	0	0.0%	0.0%
- Neuroradiology	93	2	2.2%	0.4%
- Nuclear radiology	19	0	0.0%	0.0%
- Pediatric radiology	48	1	2.1%	0.2%
Interventional radiology - independent	91	0	0.0%	0.0%
Interventional radiology - integrated	101	3	3.0%	0.7%
Surgery	365	4	1.1%	0.9%
- Complex general surgical oncology	35	1	2.9%	0.2%
- Hand surgery	2	0	0.0%	0.0%
- Pediatric surgery	52	0	0.0%	0.0%
- Surgical critical care	171	6	3.5%	1.3%
- Vascular surgery - independent	123	1	0.8%	0.2%
Vascular surgery - integrated	81	3	3.7%	0.7%
Thoracic surgery - independent	79	0	0.0%	0.0%
- Congenital cardiac surgery	17	0	0.0%	0.0%
Thoracic surgery - integrated	36	0	0.0%	0.0%
Urology	152	3	2.0%	0.7%
- Urogynecology and reconstructive pelvic surgery	16	0	0.0%	0.0%
- Pediatric urology	28	1	3.6%	0.2%
Transitional year	201	19	9.5%	4.2%
Internal medicine/Pediatrics	78	1	1.3%	0.2%
Health care administration, leadership, and management*	9	4	44.4%	0.9%

Notes: Pipeline specialties are highlighted. Asterisks (\*) indicate specialties and subspecialties added within the last five years.

TABLE A.10

## Number of Programs with a Withdrawn Accreditation Status during the Academic Year by Specialty and Subspecialty

Specialty	Total Programs	Accreditation Withdrawn Prior to Academic Year End		Accreditation Withdrawn at Academic Year End		Future Withdrawal of Accreditation	
		#	%	#	%	#	%
OVERALL	13,762	16	0.1%	45	0.3%	6	0.0%
TOTAL PIPELINE	5,622	9	0.2%	24	0.4%	4	0.1%
Allergy and immunology	92	0	0.0%	0	0.0%	0	0.0%
Anesthesiology	182	0	0.0%	0	0.0%	0	0.0%
- Adult cardiothoracic anesthesiology	76	1	1.3%	0	0.0%	0	0.0%
- Critical care medicine	68	0	0.0%	0	0.0%	0	0.0%
- Obstetric anesthesiology	45	0	0.0%	0	0.0%	0	0.0%
- Pain medicine (multidisciplinary)	118	0	0.0%	0	0.0%	0	0.0%
- Pediatric anesthesiology	64	0	0.0%	0	0.0%	0	0.0%
- Pediatric cardiac anesthesiology	15	0	0.0%	0	0.0%	0	0.0%
- Regional anesthesiology and acute pain medicine	46	0	0.0%	0	0.0%	0	0.0%
Colon and rectal surgery	74	0	0.0%	0	0.0%	0	0.0%
Dermatology	145	0	0.0%	1	0.7%	0	0.0%
- Dermatopathology (multidisciplinary)	58	0	0.0%	0	0.0%	0	0.0%
- Micrographic surgery and dermatologic oncology	84	0	0.0%	1	1.2%	0	0.0%
- Pediatric dermatology	37	0	0.0%	0	0.0%	0	0.0%
Emergency medicine	297	1	0.3%	4	1.3%	0	0.0%
- Emergency medical services	88	0	0.0%	0	0.0%	0	0.0%
- Medical toxicology	32	0	0.0%	0	0.0%	0	0.0%
- Pediatric emergency medicine	30	0	0.0%	0	0.0%	0	0.0%
- Sports medicine	11	0	0.0%	0	0.0%	0	0.0%
- Undersea and hyperbaric medicine	8	0	0.0%	0	0.0%	0	0.0%
Family medicine	817	4	0.5%	7	0.9%	3	0.4%
- Clinical informatics	10	0	0.0%	0	0.0%	0	0.0%
- Geriatric medicine	44	0	0.0%	0	0.0%	0	0.0%
- Hospice and palliative medicine (multidisciplinary)	190	0	0.0%	1	0.5%	0	0.0%
- Sports medicine	173	1	0.6%	4	2.3%	1	0.6%
Internal medicine	688	2	0.3%	3	0.4%	0	0.0%
- Adult congenital heart disease	32	0	0.0%	0	0.0%	0	0.0%
- Advanced heart failure and transplant cardiology	84	0	0.0%	0	0.0%	0	0.0%
- Cardiovascular disease	294	0	0.0%	0	0.0%	0	0.0%
- Clinical cardiac electrophysiology	122	0	0.0%	0	0.0%	0	0.0%
- Clinical informatics	31	0	0.0%	1	3.2%	0	0.0%
- Critical care medicine	79	0	0.0%	1	1.3%	0	0.0%
- Endocrinology, diabetes, and metabolism	163	0	0.0%	0	0.0%	0	0.0%
- Gastroenterology	242	0	0.0%	0	0.0%	0	0.0%
- Geriatric medicine	118	1	0.8%	1	0.8%	0	0.0%
- Hematology and medical oncology	195	0	0.0%	0	0.0%	0	0.0%
- Infectious disease	170	0	0.0%	2	1.2%	0	0.0%
- Interventional cardiology	189	0	0.0%	0	0.0%	0	0.0%
- Interventional pulmonology	41	0	0.0%	0	0.0%	0	0.0%
- Medical oncology	1	0	0.0%	0	0.0%	0	0.0%
- Nephrology	152	0	0.0%	2	1.3%	0	0.0%
- Pulmonary disease	16	0	0.0%	0	0.0%	0	0.0%
- Pulmonary disease and critical care medicine	219	0	0.0%	0	0.0%	0	0.0%
- Rheumatology	138	0	0.0%	0	0.0%	0	0.0%
- Sleep medicine (multidisciplinary)	99	0	0.0%	0	0.0%	0	0.0%
- Transplant hepatology	70	0	0.0%	0	0.0%	0	0.0%
Medical genetics and genomics	44	0	0.0%	0	0.0%	0	0.0%
- Medical biochemical genetics	22	0	0.0%	0	0.0%	0	0.0%
- Molecular genetic pathology (multidisciplinary)	44	0	0.0%	0	0.0%	0	0.0%
Clinical biochemical genetics	14	0	0.0%	1	7.1%	0	0.0%
Laboratory genetics and genomics	38	0	0.0%	0	0.0%	0	0.0%
Neurological surgery	119	0	0.0%	0	0.0%	0	0.0%
- Neuroendovascular intervention	3	0	0.0%	0	0.0%	0	0.0%

**TABLE A.10** *Continued*

Neurology	197	0	0.0%	0	0.0%	0	0.0%
- Clinical neurophysiology	98	0	0.0%	0	0.0%	0	0.0%
- Epilepsy	100	0	0.0%	0	0.0%	0	0.0%
- Neurocritical care (multidisciplinary)	65	0	0.0%	0	0.0%	0	0.0%
- Neuroendovascular intervention	2	0	0.0%	0	0.0%	0	0.0%
- Neurodevelopmental disabilities	11	0	0.0%	0	0.0%	0	0.0%
- Neuromuscular medicine	59	0	0.0%	0	0.0%	0	0.0%
- Vascular neurology	115	0	0.0%	0	0.0%	0	0.0%
Child neurology	83	0	0.0%	0	0.0%	0	0.0%
Nuclear medicine	33	0	0.0%	0	0.0%	0	0.0%
Obstetrics and gynecology	303	1	0.3%	2	0.7%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	59	0	0.0%	0	0.0%	0	0.0%
- Gynecologic oncology	75	0	0.0%	0	0.0%	0	0.0%
- Maternal-fetal medicine	114	0	0.0%	0	0.0%	0	0.0%
- Reproductive endocrinology and infertility	52	0	0.0%	0	0.0%	0	0.0%
- Complex family planning	36	0	0.0%	0	0.0%	0	0.0%
Ophthalmology	128	0	0.0%	0	0.0%	1	0.8%
- Ophthalmic plastic and reconstructive surgery	4	0	0.0%	0	0.0%	0	0.0%
Orthopaedic surgery	209	0	0.0%	1	0.5%	0	0.0%
- Adult reconstructive orthopaedics	26	0	0.0%	0	0.0%	0	0.0%
- Foot and ankle orthopaedics	9	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	77	0	0.0%	0	0.0%	0	0.0%
- Musculoskeletal oncology	12	0	0.0%	0	0.0%	1	8.3%
- Orthopaedic sports medicine	95	1	1.1%	0	0.0%	0	0.0%
- Orthopaedic surgery of the spine	16	0	0.0%	0	0.0%	0	0.0%
- Orthopaedic trauma	13	0	0.0%	0	0.0%	0	0.0%
- Pediatric orthopaedics	25	0	0.0%	0	0.0%	0	0.0%
Osteopathic neuromusculoskeletal medicine	26	0	0.0%	0	0.0%	0	0.0%
Otolaryngology- head and neck surgery	131	0	0.0%	0	0.0%	0	0.0%
- Neurotology	29	0	0.0%	0	0.0%	0	0.0%
- Pediatric otolaryngology	34	0	0.0%	0	0.0%	0	0.0%
Pathology-anatomic and clinical	142	0	0.0%	0	0.0%	0	0.0%
- Blood banking/transfusion medicine	57	0	0.0%	0	0.0%	0	0.0%
- Clinical informatics	10	0	0.0%	0	0.0%	0	0.0%
- Chemical pathology	4	0	0.0%	0	0.0%	0	0.0%
- Cytopathology	91	0	0.0%	0	0.0%	0	0.0%
- Forensic pathology	52	0	0.0%	0	0.0%	0	0.0%
- Hematopathology	86	0	0.0%	0	0.0%	0	0.0%
- Medical microbiology	16	0	0.0%	0	0.0%	0	0.0%
- Neuropathology	41	0	0.0%	0	0.0%	0	0.0%
- Pediatric pathology	27	0	0.0%	0	0.0%	0	0.0%
- Selective pathology	134	0	0.0%	0	0.0%	0	0.0%
Pediatrics	217	0	0.0%	1	0.5%	0	0.0%
- Adolescent medicine	33	0	0.0%	0	0.0%	0	0.0%
- Child abuse pediatrics	34	0	0.0%	0	0.0%	0	0.0%
- Clinical informatics	11	0	0.0%	0	0.0%	0	0.0%
- Developmental-behavioral pediatrics	46	0	0.0%	0	0.0%	0	0.0%
- Neonatal-perinatal medicine	110	0	0.0%	0	0.0%	0	0.0%
- Pediatric cardiology	64	0	0.0%	0	0.0%	0	0.0%
- Pediatric critical care medicine	78	0	0.0%	0	0.0%	0	0.0%
- Pediatric emergency medicine	60	0	0.0%	0	0.0%	0	0.0%
- Pediatric endocrinology	72	0	0.0%	0	0.0%	0	0.0%
- Pediatric gastroenterology	69	0	0.0%	0	0.0%	0	0.0%
- Pediatric hematology/oncology	79	1	1.3%	0	0.0%	0	0.0%
- Pediatric infectious diseases	65	0	0.0%	0	0.0%	0	0.0%
- Pediatric nephrology	49	0	0.0%	1	2.0%	0	0.0%
- Pediatric pulmonology	58	0	0.0%	0	0.0%	0	0.0%
- Pediatric rheumatology	39	0	0.0%	0	0.0%	0	0.0%
- Sports medicine	17	0	0.0%	0	0.0%	0	0.0%

**TABLE A.10 *Continued***

- Pediatric transplant hepatology	17	0	0.0%	0	0.0%	0	0.0%
- Pediatric hospital medicine	80	0	0.0%	0	0.0%	0	0.0%
<b>Physical medicine and rehabilitation</b>	<b>112</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Brain injury medicine	29	0	0.0%	1	3.4%	0	0.0%
- Neuromuscular medicine	1	0	0.0%	0	0.0%	0	0.0%
- Spinal cord injury medicine	26	0	0.0%	1	3.8%	0	0.0%
- Pediatric rehabilitation medicine	24	0	0.0%	0	0.0%	0	0.0%
- Sports medicine	24	0	0.0%	0	0.0%	0	0.0%
<b>Plastic surgery</b>	<b>49</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Craniofacial surgery	9	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	19	0	0.0%	0	0.0%	0	0.0%
<b>Plastic Surgery - integrated</b>	<b>89</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Public health and general preventive medicine</b>	<b>40</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Undersea and hyperbaric medicine	1	0	0.0%	0	0.0%	0	0.0%
<b>Aerospace medicine</b>	<b>5</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Occupational and environmental medicine</b>	<b>22</b>	<b>1</b>	<b>4.5%</b>	<b>1</b>	<b>4.5%</b>	<b>0</b>	<b>0.0%</b>
<b>Psychiatry</b>	<b>353</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Addiction medicine (multidisciplinary)	108	0	0.0%	0	0.0%	0	0.0%
- Addiction psychiatry	54	0	0.0%	0	0.0%	0	0.0%
- Child and adolescent psychiatry	158	0	0.0%	0	0.0%	0	0.0%
- Forensic psychiatry	60	0	0.0%	1	1.7%	0	0.0%
- Geriatric psychiatry	60	0	0.0%	0	0.0%	0	0.0%
- Consultation-liaison psychiatry	69	0	0.0%	1	1.4%	0	0.0%
<b>Radiation oncology</b>	<b>87</b>	<b>0</b>	<b>0.0%</b>	<b>1</b>	<b>1.1%</b>	<b>0</b>	<b>0.0%</b>
<b>Radiology-diagnostic</b>	<b>200</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Abdominal radiology	13	0	0.0%	0	0.0%	0	0.0%
- Musculoskeletal radiology	23	0	0.0%	0	0.0%	0	0.0%
- Neuroendovascular intervention	5	0	0.0%	0	0.0%	0	0.0%
- Neuroradiology	93	0	0.0%	0	0.0%	0	0.0%
- Nuclear radiology	19	0	0.0%	0	0.0%	0	0.0%
- Pediatric radiology	48	0	0.0%	0	0.0%	0	0.0%
<b>Interventional radiology - independent</b>	<b>91</b>	<b>0</b>	<b>0.0%</b>	<b>1</b>	<b>1.1%</b>	<b>0</b>	<b>0.0%</b>
<b>Interventional radiology - integrated</b>	<b>101</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Surgery</b>	<b>365</b>	<b>0</b>	<b>0.0%</b>	<b>2</b>	<b>0.5%</b>	<b>0</b>	<b>0.0%</b>
- Complex general surgical oncology	35	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	2	0	0.0%	0	0.0%	0	0.0%
- Pediatric surgery	52	0	0.0%	0	0.0%	0	0.0%
- Surgical critical care	171	0	0.0%	0	0.0%	0	0.0%
- Vascular surgery - independent	123	0	0.0%	0	0.0%	0	0.0%
<b>Vascular surgery - integrated</b>	<b>81</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Thoracic surgery - independent</b>	<b>79</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Congenital cardiac surgery	17	0	0.0%	0	0.0%	0	0.0%
<b>Thoracic surgery - integrated</b>	<b>36</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Urology</b>	<b>152</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
- Urogynecology and reconstructive pelvic surgery	16	0	0.0%	0	0.0%	0	0.0%
- Pediatric urology	28	0	0.0%	0	0.0%	0	0.0%
<b>Transitional year</b>	<b>201</b>	<b>2</b>	<b>1.0%</b>	<b>2</b>	<b>1.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Internal medicine/Pediatrics</b>	<b>78</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Health care administration, leadership, and management</b>	<b>9</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>

Notes: Pipeline specialties are highlighted. Total program counts exclude programs withdrawn prior to the end of the academic year (n=16).

TABLE A.11

**Total Number of Programs, Years of Accredited Prior Training Required, and Length of Accredited Education and Training by Specialty and Subspecialty**

Specialty	MIN No. of Prior Years	Total Programs	Length of Accredited Education and Training						
			1	2	3	4	5	6	7
			#	#	#	#	#	#	#
Allergy and immunology	3	92		92					
Anesthesiology	1/0	182			22	160			
- Adult cardiothoracic anesthesiology	4	76	76						
- Critical care medicine	4	68	68						
- Obstetric anesthesiology	3/4	45	45						
- Pain medicine (multidisciplinary)	3/4	118	118						
- Pediatric anesthesiology	4	64	64						
- Pediatric cardiac anesthesiology	4	15	15						
- Regional anesthesiology and acute pain medicine	4	46	46						
Colon and rectal surgery	5	74	74						
Dermatology	1/0	145			142	3			
- Dermatopathology (multidisciplinary)	4	58	58						
- Micrographic surgery and dermatologic oncology	4	84	84						
- Pediatric dermatology	4	37	37						
Emergency medicine	0	297			243	54			
- Emergency medical services	3	88	88						
- Medical toxicology	3	32		32					
- Pediatric emergency medicine	3	30			30				
- Sports medicine	3	11	11						
- Undersea and hyperbaric medicine	3	8	8						
Family medicine	0	817			806	11			
- Clinical informatics	3	10		10					
- Geriatric medicine	3	44	44						
- Hospice and palliative medicine (multidisciplinary)	3	190	190						
- Sports medicine	3	173	173						
Internal medicine	0	688			688				
- Adult congenital heart disease	3	32		32					
- Advanced heart failure and transplant cardiology	6	84	84						
- Cardiovascular disease	3	294			294				
- Clinical cardiac electrophysiology	6	122		122					
- Clinical informatics	3	31		31					
- Critical care medicine	3	79		79					
- Endocrinology, diabetes, and metabolism	3	163		163					
- Gastroenterology	3	242			242				
- Geriatric medicine	3	118	118						
- Hematology and medical oncology	3	195			195				
- Infectious disease	3	170		170					
- Interventional cardiology	6	189	189						
- Interventional pulmonology	2/3	41	41						
- Medical oncology	3	1		1					
- Nephrology	3	152		152					
- Pulmonary disease	3	16		16					
- Pulmonary disease and critical care medicine	3	219			219				
- Rheumatology	3	138		138					
- Sleep medicine (multidisciplinary)	3/4/5	99	99						
- Transplant hepatology	6	70	70						
Medical genetics and genomics	2/0	44		44					
- Medical biochemical genetics	4	22	22						
- Molecular genetic pathology (multidisciplinary)	4	44	44						
Clinical biochemical genetics	0	14		14					
Laboratory genetics and genomics	0	38		38					
Neurological surgery	0	119							119
- Neuroendovascular intervention	6	3		3					

TABLE A.11 *Continued*

## Total Number of Programs, Years of Accredited Prior Training Required, and Length of Accredited Education and Training by Specialty and Subspecialty

Specialty	MIN No. of Prior Years	Total Programs	Length of Accredited Education and Training						
			1	2	3	4	5	6	7
			#	#	#	#	#	#	#
Neurology	1/0	197			47	150			
- Clinical neurophysiology	4	98	98						
- Epilepsy	3	100	100						
- Neurocritical care (multidisciplinary)	3/4	65		65					
- Neuroendovascular intervention	5	2		2					
- Neurodevelopmental disabilities	2	11				11			
- Neuromuscular medicine	4	59	59						
- Vascular neurology	4	115	115						
Child neurology	2	83			83				
Nuclear medicine	1	33			33				
Obstetrics and gynecology	0	303				303			
- Urogynecology and reconstructive pelvic surgery	4	59			59				
- Gynecologic oncology	4	75			75				
- Maternal-fetal medicine	4	114			114				
- Reproductive endocrinology and infertility	4	52			52				
- Complex family planning	4	36		36					
Ophthalmology	1	128			74	54			
- Ophthalmic plastic and reconstructive surgery	4	4		4					
Orthopaedic surgery	0	209					209		
- Adult reconstructive orthopaedics	5	26	26						
- Foot and ankle orthopaedics	5	9	9						
- Hand surgery	5	77	77						
- Musculoskeletal oncology	5	12	12						
- Orthopaedic sports medicine	5	95	95						
- Orthopaedic surgery of the spine	5	16	16						
- Orthopaedic trauma	5	13	13						
- Pediatric orthopaedics	5	25	25						
Osteopathic neuromusculoskeletal medicine	0	26			26				
Otolaryngology - head and neck surgery	0	131					131		
- Neurotology	5	29		29					
- Pediatric otolaryngology	5	34	34						
Pathology-anatomic and clinical	0	142			1	141			
- Blood banking/transfusion medicine	2	57	57						
- Clinical informatics	2	10		10					
- Chemical pathology	2	4	4						
- Cytopathology	2	91	91						
- Forensic pathology	2	52	52						
- Hematopathology	2	86	86						
- Medical microbiology	4	16	16						
- Neuropathology	2	41		41					
- Pediatric pathology	2	27	27						
- Selective pathology	2	134	134						
Pediatrics	0	217			217				
- Adolescent medicine	3	33			33				
- Child abuse pediatrics	3	34			34				
- Clinical informatics	3	11		11					
- Developmental-behavioral pediatrics	3	46			46				
- Neonatal-perinatal medicine	3	110			110				
- Pediatric cardiology	3	64			64				
- Pediatric critical care medicine	3	78			78				
- Pediatric emergency medicine	3	60			60				
- Pediatric endocrinology	3	72			72				
- Pediatric gastroenterology	3	69			69				
- Pediatric hematology/oncology	3	79			79				
- Pediatric infectious diseases	3	65			65				

**TABLE A.11 *Continued*****Total Number of Programs, Years of Accredited Prior Training Required, and Length of Accredited Education and Training by Specialty and Subspecialty**

Specialty	MIN No. of Prior Years	Total Programs	Length of Accredited Education and Training						
			1 #	2 #	3 #	4 #	5 #	6 #	7 #
- Pediatric nephrology	3	49			49				
- Pediatric pulmonology	3	58			58				
- Pediatric rheumatology	3	39			39				
- Sports medicine	3	17	17						
- Pediatric transplant hepatology	6	17	17						
- Pediatric hospital medicine	3	80		80					
Physical medicine and rehabilitation	1/0	112			58	54			
- Brain injury medicine	3/4	29	29						
- Neuromuscular medicine	3/4	1	1						
- Spinal cord injury medicine	3/4	26	26						
- Pediatric rehabilitation medicine	4	24		24					
- Sports medicine	3/4	24	24						
Plastic surgery	3	49			49				
- Craniofacial surgery	6	9	9						
- Hand surgery	5	19	19						
Plastic Surgery - integrated	0	89							89
Public health and general preventive medicine	1/0	40			38	2			
- Undersea and hyperbaric medicine	3	1	1						
Aerospace medicine	1/0	5			5				
Occupational and environmental medicine	1/0	22			22				
Psychiatry	0	353	1				352		
- Addiction medicine (multidisciplinary)	1/2/3/4	108	108						
- Addiction psychiatry	4	54	53	1					
- Child and adolescent psychiatry	3	158		158					
- Forensic psychiatry	4	60	60						
- Geriatric psychiatry	4	60	59	1					
- Consultation-liaison psychiatry	4	69	69						
Radiation oncology	1	87					87		
Radiology-diagnostic	1	200					193	7	
- Abdominal radiology	5	13	13						
- Musculoskeletal radiology	5	23	23						
- Neuroendovascular intervention	5	5		5					
- Neuroradiology	5	93	93						
- Nuclear radiology	5	19	19						
- Pediatric radiology	5	48	48						
Interventional radiology - independent	4	91		91					
Interventional radiology - integrated	1	101					95	6	
Surgery	0	365					365		
- Complex general surgical oncology	5	35		35					
- Hand surgery	5	2	2						
- Pediatric surgery	5	52		52					
- Surgical critical care	3	171	171						
- Vascular surgery - independent	5	123		123					
Vascular surgery - integrated	0	81					81		
Thoracic surgery - independent	5	79			56	23			
- Congenital cardiac surgery	7	17			17				
Thoracic surgery - integrated	0	36						36	
Urology	0/1	152					152		
- Urogynecology and reconstructive pelvic surgery	3/4	16			16				
- Pediatric urology	5	28		28					
Transitional year	0	201	201						
Internal medicine/Pediatrics	0	78					78		
Health care administration, leadership, and management	1	9	4	5					

Notes: Pipeline specialties are highlighted. Under special circumstances, some programs have been granted exceptions to the typical length of accredited training.

TABLE A.12

## Number of Programs with Osteopathic Recognition by Specialty and Subspecialty

Specialty	Total Programs	Programs with Osteopathic Recognition	Percent of Specialty	Percent of All Programs with Osteopathic Recognition
OVERALL	13,762	276	2.0%	100.0%
<b>TOTAL PIPELINE</b>	<b>5,622</b>	<b>257</b>	<b>4.6%</b>	<b>93.1%</b>
Allergy and immunology	92	1	1.1%	0.4%
Anesthesiology	182	3	1.6%	1.1%
Dermatology	145	3	2.1%	1.1%
Emergency medicine	297	5	1.7%	1.8%
Family medicine	817	189	23.1%	68.5%
- Hospice and palliative medicine (multidisciplinary)	190	2	1.1%	0.7%
- Sports medicine	173	5	2.9%	1.8%
Internal medicine	688	28	4.1%	10.1%
- Cardiovascular disease	294	2	0.7%	0.7%
- Geriatric medicine	118	1	0.8%	0.4%
- Pulmonary disease and critical care medicine	219	1	0.5%	0.4%
Neurological surgery	119	1	0.8%	0.4%
Neurology	197	1	0.5%	0.4%
Obstetrics and gynecology	303	4	1.3%	1.4%
Ophthalmology	128	1	0.8%	0.4%
Orthopaedic surgery	209	5	2.4%	1.8%
Otolaryngology - head and neck surgery	131	3	2.3%	1.1%
Pediatrics	217	1	0.5%	0.4%
- Sports medicine	17	1	5.9%	0.4%
Physical medicine and rehabilitation	112	3	2.7%	1.1%
Plastic surgery	49	1	2.0%	0.4%
Psychiatry	353	2	0.6%	0.7%
Surgery	365	5	1.4%	1.8%
Urology	152	1	0.7%	0.4%
Transitional year	201	6	3.0%	2.2%
Internal medicine/Pediatrics	78	1	1.3%	0.4%

Note: Pipeline specialties are highlighted.



# B

# Program Characteristics

This section summarizes the geographic distribution of programs overall and by specialty, the distribution of programs and residents by specialty group, and the average number of residents per program overall and by specialty.

## Geographic Distribution

There are currently ACGME-accredited programs in all 50 states, the District of Columbia (DC), and Puerto Rico. Based on the most recent US Census estimates for 2024, there are approximately 4.01 total programs (1.76 specialty, 2.25 subspecialty) per 100,000 population, including Puerto Rico. The following states have the highest total number of programs:

- New York (1,465)
- California (1,274)
- Texas (931)
- Pennsylvania (863)

States with the lowest number of programs include Montana (7), Alaska (4), and Wyoming (4). These patterns are consistent when looking at total programs, specialty programs, and pipeline programs by state. Family medicine is currently the only specialty represented across all 50 states, DC, and Puerto Rico.

## Distributions by Specialty and Program Size

In looking at the distribution of specialty programs and their active residents, the specialties with the highest percentage of total programs include:

- Family medicine (13.6%)
- Internal medicine (11.4%)
- Surgery (6.1%)
- Psychiatry (5.9%)

In contrast, the specialties with the highest percentage of total residents include:

- Internal medicine (24.8%)
- Family medicine (11.4%)
- Surgery (7.3%)
- Pediatrics (7.2%)

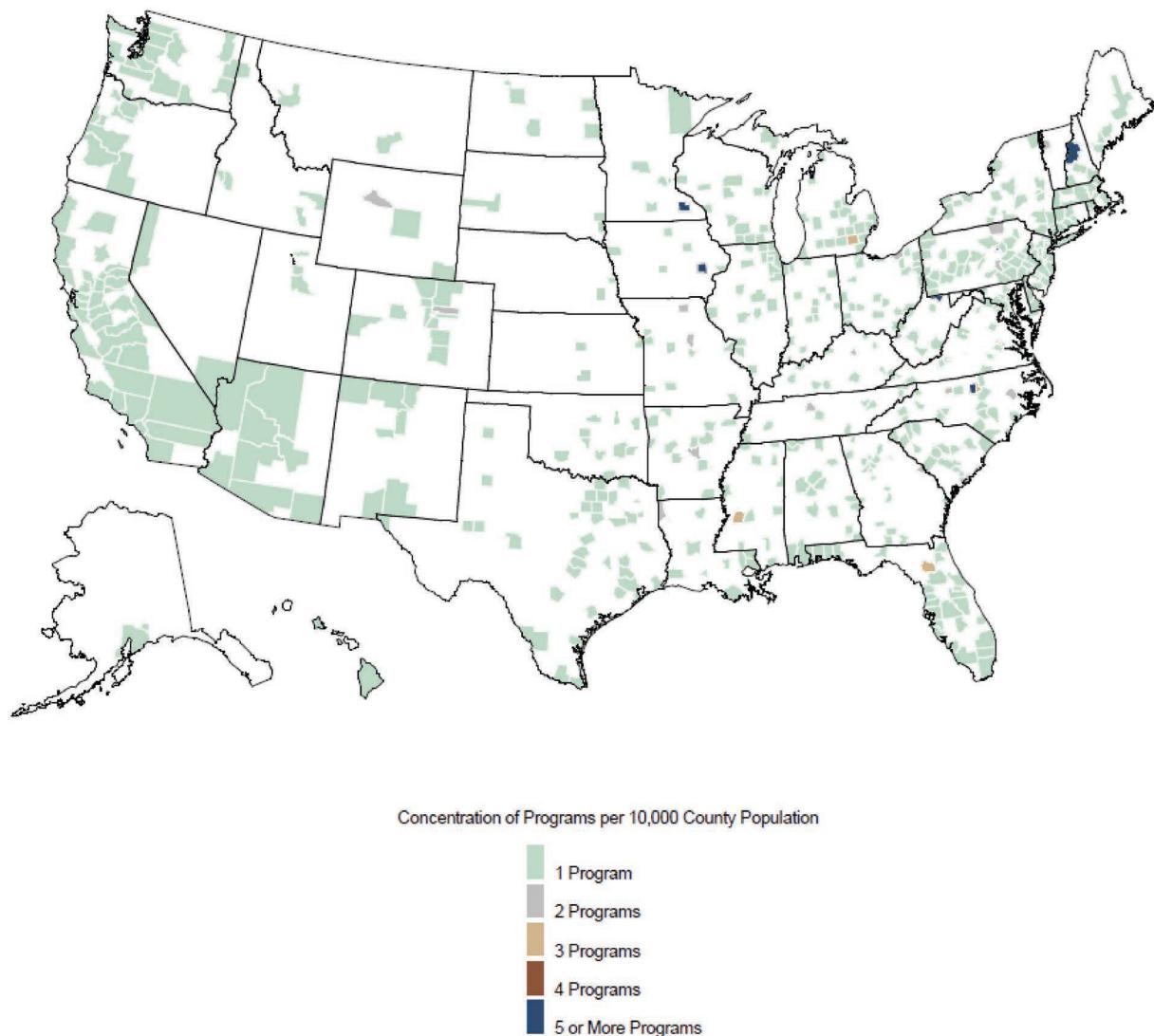
These distributions are driven by total number of programs and average program size (average number of residents per program). Internal medicine programs, for example, have an average of approximately 50 residents per program, with at least one program having 246 active residents during the 2024-2025 academic year. Pediatrics has the second highest average number of residents per program with approximately 45 residents per program. Overall, the trends in mean number of residents per program show that for specialty programs, the average number of residents per program peaked at 23.7 in the 2015-2016 academic year but has fallen to 22.8 in the 2024-2025 academic year. The average size of subspecialty programs has remained fairly constant over the last 10 years. In the 2024-2025 academic year there were approximately 3.8 residents per subspecialty program.

## Distributions by Specialty Group

The distribution of programs by specialty group differs in specialty versus subspecialty programs. Of the total number of specialty programs, 46.6% of programs are in medical specialties, 30.1% are in surgical specialties, and 23.5% are in hospital-based specialties. Among subspecialty programs, 65.9% of programs are in medical subspecialties, 14.9% are in surgical subspecialties, 19.1% are in hospital-based subspecialties, and 0.1% are sponsor institution-based fellowship subspecialties. The relative patterns in the distributions of residents across specialty groups can be attributed to both the number of programs and average number of residents per program in the medical, surgical, and hospital-based disciplines.  $\wedge$

**FIGURE B.1**

**Geographic Distribution of Programs**



Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE B.2

## Number of Programs and Program Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Programs	Percent of All Programs	Programs per 100,000 Pop
OVERALL	-	343,314,283	13,762	100.0%	4.01
Alabama	AL	5,157,699	163	1.2%	3.16
Alaska	AK	740,133	4	0.0%	0.54
Arizona	AZ	7,582,384	250	1.8%	3.30
Arkansas	AR	3,088,354	101	0.7%	3.27
California	CA	39,431,263	1,274	9.3%	3.23
Colorado	CO	5,957,493	153	1.1%	2.57
Connecticut	CT	3,675,069	226	1.6%	6.15
Delaware	DE	1,051,917	51	0.4%	4.85
District of Columbia	DC	702,250	146	1.1%	20.79
Florida	FL	23,372,215	800	5.8%	3.42
Georgia	GA	11,180,878	265	1.9%	2.37
Hawaii	HI	1,446,146	36	0.3%	2.49
Idaho	ID	2,001,619	18	0.1%	0.90
Illinois	IL	12,710,158	573	4.2%	4.51
Indiana	IN	6,924,275	160	1.2%	2.31
Iowa	IA	3,241,488	110	0.8%	3.39
Kansas	KS	2,970,606	87	0.6%	2.93
Kentucky	KY	4,588,372	162	1.2%	3.53
Louisiana	LA	4,597,740	203	1.5%	4.42
Maine	ME	1,405,012	41	0.3%	2.92
Maryland	MD	6,263,220	295	2.1%	4.71
Massachusetts	MA	7,136,171	500	3.6%	7.01
Michigan	MI	10,140,459	610	4.4%	6.02
Minnesota	MN	5,793,151	252	1.8%	4.35
Mississippi	MS	2,943,045	92	0.7%	3.13
Missouri	MO	6,245,466	320	2.3%	5.12
Montana	MT	1,137,233	7	0.1%	0.62
Nebraska	NE	2,005,465	102	0.7%	5.09
Nevada	NV	3,267,467	66	0.5%	2.02
New Hampshire	NH	1,409,032	60	0.4%	4.26
New Jersey	NJ	9,500,851	363	2.6%	3.82
New Mexico	NM	2,130,256	83	0.6%	3.90
New York	NY	19,867,248	1,465	10.6%	7.37
North Carolina	NC	11,046,024	395	2.9%	3.58
North Dakota	ND	796,568	18	0.1%	2.26
Ohio	OH	11,883,304	677	4.9%	5.70
Oklahoma	OK	4,095,393	108	0.8%	2.64
Oregon	OR	4,272,371	117	0.9%	2.74
Pennsylvania	PA	13,078,751	863	6.3%	6.60
Puerto Rico	PR	3,203,295	80	0.6%	2.50
Rhode Island	RI	1,112,308	76	0.6%	6.83
South Carolina	SC	5,478,831	185	1.3%	3.38
South Dakota	SD	924,669	17	0.1%	1.84
Tennessee	TN	7,227,750	257	1.9%	3.56
Texas	TX	31,290,831	931	6.8%	2.98
Utah	UT	3,503,613	113	0.8%	3.23
Vermont	VT	648,493	43	0.3%	6.63
Virginia	VA	8,811,195	300	2.2%	3.40
Washington	WA	7,958,180	198	1.4%	2.49
West Virginia	WV	1,769,979	107	0.8%	6.05
Wisconsin	WI	5,960,975	235	1.7%	3.94
Wyoming	WY	587,618	4	0.0%	0.68

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2023/state/totals/NST-EST2023-ALLDATA.csv>. Published March, 2024. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE B.3

## Number of Specialty Programs and Specialty Program Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Specialty Programs	Percent of All Specialty Programs	Specialty Programs per 100,000 Pop
OVERALL	-	343,314,283	6,029	100.0%	1.76
Alabama	AL	5,157,699	78	1.3%	1.51
Alaska	AK	740,133	2	0.0%	0.27
Arizona	AZ	7,582,384	108	1.8%	1.42
Arkansas	AR	3,088,354	58	1.0%	1.88
California	CA	39,431,263	551	9.1%	1.40
Colorado	CO	5,957,493	62	1.0%	1.04
Connecticut	CT	3,675,069	86	1.4%	2.34
Delaware	DE	1,051,917	20	0.3%	1.90
District of Columbia	DC	702,250	53	0.9%	7.55
Florida	FL	23,372,215	383	6.4%	1.64
Georgia	GA	11,180,878	127	2.1%	1.14
Hawaii	HI	1,446,146	24	0.4%	1.66
Idaho	ID	2,001,619	14	0.2%	0.70
Illinois	IL	12,710,158	247	4.1%	1.94
Indiana	IN	6,924,275	72	1.2%	1.04
Iowa	IA	3,241,488	47	0.8%	1.45
Kansas	KS	2,970,606	40	0.7%	1.35
Kentucky	KY	4,588,372	67	1.1%	1.46
Louisiana	LA	4,597,740	102	1.7%	2.22
Maine	ME	1,405,012	22	0.4%	1.57
Maryland	MD	6,263,220	118	2.0%	1.88
Massachusetts	MA	7,136,171	169	2.8%	2.37
Michigan	MI	10,140,459	321	5.3%	3.17
Minnesota	MN	5,793,151	79	1.3%	1.36
Mississippi	MS	2,943,045	49	0.8%	1.66
Missouri	MO	6,245,466	121	2.0%	1.94
Montana	MT	1,137,233	6	0.1%	0.53
Nebraska	NE	2,005,465	41	0.7%	2.04
Nevada	NV	3,267,467	40	0.7%	1.22
New Hampshire	NH	1,409,032	28	0.5%	1.99
New Jersey	NJ	9,500,851	197	3.3%	2.07
New Mexico	NM	2,130,256	32	0.5%	1.50
New York	NY	19,867,248	608	10.1%	3.06
North Carolina	NC	11,046,024	159	2.6%	1.44
North Dakota	ND	796,568	14	0.2%	1.76
Ohio	OH	11,883,304	296	4.9%	2.49
Oklahoma	OK	4,095,393	60	1.0%	1.47
Oregon	OR	4,272,371	48	0.8%	1.12
Pennsylvania	PA	13,078,751	377	6.3%	2.88
Puerto Rico	PR	3,203,295	49	0.8%	1.53
Rhode Island	RI	1,112,308	26	0.4%	2.34
South Carolina	SC	5,478,831	92	1.5%	1.68
South Dakota	SD	924,669	11	0.2%	1.19
Tennessee	TN	7,227,750	107	1.8%	1.48
Texas	TX	31,290,831	387	6.4%	1.24
Utah	UT	3,503,613	39	0.6%	1.11
Vermont	VT	648,493	18	0.3%	2.78
Virginia	VA	8,811,195	134	2.2%	1.52
Washington	WA	7,958,180	91	1.5%	1.14
West Virginia	WV	1,769,979	54	0.9%	3.05
Wisconsin	WI	5,960,975	92	1.5%	1.54
Wyoming	WY	587,618	3	0.0%	0.51

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2023/state/totals/NST-EST2023-ALLDATA.csv>. Published March, 2024. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE B.4

## Number of Subspecialty Programs and Subspecialty Program Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Subspecialty Programs	Percent of All Subspecialty Programs	Subspecialty Programs per 100,000 Pop
OVERALL	-	343,314,283	7,733	100.0%	2.25
Alabama	AL	5,157,699	85	1.1%	1.65
Alaska	AK	740,133	2	0.0%	0.27
Arizona	AZ	7,582,384	142	1.8%	1.87
Arkansas	AR	3,088,354	43	0.6%	1.39
California	CA	39,431,263	723	9.3%	1.83
Colorado	CO	5,957,493	91	1.2%	1.53
Connecticut	CT	3,675,069	140	1.8%	3.81
Delaware	DE	1,051,917	31	0.4%	2.95
District of Columbia	DC	702,250	93	1.2%	13.24
Florida	FL	23,372,215	417	5.4%	1.78
Georgia	GA	11,180,878	138	1.8%	1.23
Hawaii	HI	1,446,146	12	0.2%	0.83
Idaho	ID	2,001,619	4	0.1%	0.20
Illinois	IL	12,710,158	326	4.2%	2.56
Indiana	IN	6,924,275	88	1.1%	1.27
Iowa	IA	3,241,488	63	0.8%	1.94
Kansas	KS	2,970,606	47	0.6%	1.58
Kentucky	KY	4,588,372	95	1.2%	2.07
Louisiana	LA	4,597,740	101	1.3%	2.20
Maine	ME	1,405,012	19	0.2%	1.35
Maryland	MD	6,263,220	177	2.3%	2.83
Massachusetts	MA	7,136,171	331	4.3%	4.64
Michigan	MI	10,140,459	289	3.7%	2.85
Minnesota	MN	5,793,151	173	2.2%	2.99
Mississippi	MS	2,943,045	43	0.6%	1.46
Missouri	MO	6,245,466	199	2.6%	3.19
Montana	MT	1,137,233	1	0.0%	0.09
Nebraska	NE	2,005,465	61	0.8%	3.04
Nevada	NV	3,267,467	26	0.3%	0.80
New Hampshire	NH	1,409,032	32	0.4%	2.27
New Jersey	NJ	9,500,851	166	2.1%	1.75
New Mexico	NM	2,130,256	51	0.7%	2.39
New York	NY	19,867,248	857	11.1%	4.31
North Carolina	NC	11,046,024	236	3.1%	2.14
North Dakota	ND	796,568	4	0.1%	0.50
Ohio	OH	11,883,304	381	4.9%	3.21
Oklahoma	OK	4,095,393	48	0.6%	1.17
Oregon	OR	4,272,371	69	0.9%	1.62
Pennsylvania	PA	13,078,751	486	6.3%	3.72
Puerto Rico	PR	3,203,295	31	0.4%	0.97
Rhode Island	RI	1,112,308	50	0.6%	4.50
South Carolina	SC	5,478,831	93	1.2%	1.70
South Dakota	SD	924,669	6	0.1%	0.65
Tennessee	TN	7,227,750	150	1.9%	2.08
Texas	TX	31,290,831	544	7.0%	1.74
Utah	UT	3,503,613	74	1.0%	2.11
Vermont	VT	648,493	25	0.3%	3.86
Virginia	VA	8,811,195	166	2.1%	1.88
Washington	WA	7,958,180	107	1.4%	1.34
West Virginia	WV	1,769,979	53	0.7%	2.99
Wisconsin	WI	5,960,975	143	1.8%	2.40
Wyoming	WY	587,618	1	0.0%	0.17

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2023/state/totals/NST-EST2023-ALLDATA.csv>. Published March, 2024. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE B.5

## Number of Pipeline Programs and Pipeline Program Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Pipeline Programs	Percent of All Pipeline Programs	Pipeline Programs per 100,000 Pop
OVERALL	-	343,314,283	5,622	100.0%	1.64
Alabama	AL	5,157,699	71	1.3%	1.38
Alaska	AK	740,133	2	0.0%	0.27
Arizona	AZ	7,582,384	102	1.8%	1.35
Arkansas	AR	3,088,354	54	1.0%	1.75
California	CA	39,431,263	517	9.2%	1.31
Colorado	CO	5,957,493	55	1.0%	0.92
Connecticut	CT	3,675,069	82	1.5%	2.23
Delaware	DE	1,051,917	19	0.3%	1.81
District of Columbia	DC	702,250	53	0.9%	7.55
Florida	FL	23,372,215	350	6.2%	1.50
Georgia	GA	11,180,878	114	2.0%	1.02
Hawaii	HI	1,446,146	23	0.4%	1.59
Idaho	ID	2,001,619	14	0.2%	0.70
Illinois	IL	12,710,158	234	4.2%	1.84
Indiana	IN	6,924,275	65	1.2%	0.94
Iowa	IA	3,241,488	43	0.8%	1.33
Kansas	KS	2,970,606	39	0.7%	1.31
Kentucky	KY	4,588,372	64	1.1%	1.39
Louisiana	LA	4,597,740	95	1.7%	2.07
Maine	ME	1,405,012	22	0.4%	1.57
Maryland	MD	6,263,220	108	1.9%	1.72
Massachusetts	MA	7,136,171	155	2.8%	2.17
Michigan	MI	10,140,459	298	5.3%	2.94
Minnesota	MN	5,793,151	72	1.3%	1.24
Mississippi	MS	2,943,045	46	0.8%	1.56
Missouri	MO	6,245,466	115	2.0%	1.84
Montana	MT	1,137,233	5	0.1%	0.44
Nebraska	NE	2,005,465	38	0.7%	1.89
Nevada	NV	3,267,467	37	0.7%	1.13
New Hampshire	NH	1,409,032	28	0.5%	1.99
New Jersey	NJ	9,500,851	186	3.3%	1.96
New Mexico	NM	2,130,256	32	0.6%	1.50
New York	NY	19,867,248	573	10.2%	2.88
North Carolina	NC	11,046,024	146	2.6%	1.32
North Dakota	ND	796,568	13	0.2%	1.63
Ohio	OH	11,883,304	274	4.9%	2.31
Oklahoma	OK	4,095,393	60	1.1%	1.47
Oregon	OR	4,272,371	44	0.8%	1.03
Pennsylvania	PA	13,078,751	349	6.2%	2.67
Puerto Rico	PR	3,203,295	44	0.8%	1.37
Rhode Island	RI	1,112,308	25	0.4%	2.25
South Carolina	SC	5,478,831	84	1.5%	1.53
South Dakota	SD	924,669	10	0.2%	1.08
Tennessee	TN	7,227,750	100	1.8%	1.38
Texas	TX	31,290,831	364	6.5%	1.16
Utah	UT	3,503,613	33	0.6%	0.94
Vermont	VT	648,493	19	0.3%	2.93
Virginia	VA	8,811,195	123	2.2%	1.40
Washington	WA	7,958,180	84	1.5%	1.06
West Virginia	WV	1,769,979	51	0.9%	2.88
Wisconsin	WI	5,960,975	85	1.5%	1.43
Wyoming	WY	587,618	3	0.1%	0.51

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2023/state/totals/NST-EST2023-ALLDATA.csv>. Published March, 2024. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE B.6

## Hospital-Based Specialty Programs by Specialty and State

State Name	State Abbreviation	AN	EM	MG	CBG	LGG	NM	PTH	GPM	AER	OEM	RO	DR	IRI	<th>Total</th>	Total
Overall	-	182	297	44	14	38	33	142	40	5	22	87	200	101	201	1,406
Alabama	AL	1	2	1	1	1	1	2	0	1	1	1	3	1	3	19
Alaska	AK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	AZ	3	6	1	0	0	0	1	0	0	0	0	2	3	3	23
Arkansas	AR	1	3	0	0	0	1	1	0	0	0	0	1	1	1	13
California	CA	19	26	6	2	3	5	10	5	0	3	11	20	9	16	135
Colorado	CO	2	1	1	1	1	0	2	1	0	1	1	1	1	1	14
Connecticut	CT	3	2	1	0	1	0	3	1	0	1	1	6	1	0	20
Delaware	DE	0	2	0	0	0	0	0	0	0	0	0	0	1	1	5
District of Columbia	DC	2	2	1	0	0	0	3	0	0	0	0	1	2	0	13
Florida	FL	13	24	1	0	0	1	9	1	1	0	4	11	4	25	94
Georgia	GA	2	5	1	0	0	1	2	2	0	0	1	3	2	9	28
Hawaii	HI	0	0	0	0	0	0	1	0	0	0	0	1	0	1	3
Idaho	ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	IL	8	13	1	0	1	1	6	1	0	1	4	10	4	6	56
Indiana	IN	2	2	1	0	1	0	1	0	0	0	1	2	1	4	15
Iowa	IA	1	2	1	0	1	1	1	0	0	0	0	1	1	2	12
Kansas	KS	2	1	0	0	0	0	1	0	0	0	0	1	2	1	8
Kentucky	KY	2	2	0	0	0	0	2	1	0	0	2	2	1	1	13
Louisiana	LA	4	4	0	0	0	0	3	0	0	0	0	4	3	1	19
Maine	ME	1	1	0	0	0	0	0	1	0	0	0	1	1	0	5
Maryland	MD	4	2	2	2	2	2	4	3	0	2	2	3	2	2	32
Massachusetts	MA	9	5	1	1	1	1	6	2	0	1	2	10	5	5	49
Michigan	MI	9	27	1	0	2	1	5	2	0	0	4	10	4	13	78
Minnesota	MN	2	3	1	1	2	0	2	1	1	1	2	2	2	1	21
Mississippi	MS	1	3	0	0	0	0	1	1	0	0	1	1	2	2	12
Missouri	MO	4	5	1	0	2	3	3	0	0	0	1	4	3	2	28
Montana	MT	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nebraska	NE	2	1	1	0	1	0	2	0	0	0	0	1	2	1	11
Nevada	NV	1	4	0	0	0	0	0	0	0	0	0	0	1	0	9
New Hampshire	NH	1	1	0	0	0	0	1	1	0	0	1	1	1	0	7
New Jersey	NJ	7	12	0	0	0	0	5	1	0	1	1	6	1	8	42
New Mexico	NM	1	1	0	0	0	0	1	1	0	0	0	1	0	1	6
New York	NY	21	32	4	0	2	4	17	6	0	1	12	25	10	17	151
North Carolina	NC	3	7	2	1	2	1	4	1	0	1	3	3	3	5	36
North Dakota	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Ohio	OH	9	18	3	1	3	0	7	1	1	1	4	8	4	8	68
Oklahoma	OK	2	5	0	0	0	1	1	0	0	0	1	3	1	1	15
Oregon	OR	1	1	1	0	1	1	1	1	0	0	1	1	1	1	11
Pennsylvania	PA	10	22	2	2	2	1	8	0	0	1	5	12	9	15	89
Puerto Rico	PR	1	2	0	0	0	1	1	0	0	0	0	1	0	4	10
Rhode Island	RI	1	2	0	0	0	0	1	0	0	0	0	1	1	0	6
South Carolina	SC	2	5	1	0	1	1	1	1	0	0	1	1	1	7	22
South Dakota	SD	0	1	0	0	0	0	1	0	0	0	0	0	0	1	3
Tennessee	TN	3	5	1	0	1	1	4	1	0	1	1	4	1	2	25
Texas	TX	11	20	3	1	2	2	10	2	1	2	5	12	4	10	85
Utah	UT	1	1	1	1	1	0	1	0	0	1	1	1	1	1	11
Vermont	VT	1	1	0	0	0	0	1	0	0	0	0	1	1	0	5
Virginia	VA	4	7	0	0	2	0	2	0	0	0	2	4	2	5	28
Washington	WA	2	2	1	0	1	1	1	1	0	0	1	1	4	1	3
West Virginia	WV	1	2	0	0	0	0	1	0	0	1	1	1	0	1	8
Wisconsin	WI	2	2	2	0	1	1	2	1	0	0	2	3	3	3	22
Wyoming	WY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Abbreviations: AN, Anesthesiology; EM, Emergency medicine; MG, Medical genetics and genomics; CBG, Clinical biochemical genetics; LGG, Laboratory genetics and genomics; NM, Nuclear medicine; PTH, Pathology-anatomic and clinical; GPM, Preventive medicine; AER, Aerospace medicine; OEM, Occupational and environmental medicine; RO, Radiation oncology; DR, Radiology-diagnostic; IRI, Interventional radiology - integrated; TY, Transitional year.

**TABLE B.7****Medical Specialty Programs by Specialty and State**

State Name	State Abbreviation	AI	D	FM	IM	N	CHN	ONM	PD	PM	P	IP	Total
Overall	-	92	145	817	688	197	83	26	217	112	353	78	2,808
Alabama	AL	1	1	11	12	2	1	0	2	1	8	2	41
Alaska	AK	0	0	1	1	0	0	0	0	0	0	0	2
Arizona	AZ	2	4	17	14	5	1	1	3	1	6	1	55
Arkansas	AR	1	1	15	11	2	1	0	1	1	3	1	37
California	CA	10	12	84	66	18	8	0	18	7	38	4	265
Colorado	CO	3	1	14	4	2	1	1	1	1	2	1	31
Connecticut	CT	1	2	6	14	2	1	1	2	2	6	1	38
Delaware	DE	1	0	4	2	0	1	0	1	0	2	1	12
District of Columbia	DC	0	3	1	4	3	1	0	2	1	4	1	20
Florida	FL	6	11	39	55	18	4	2	15	10	28	2	190
Georgia	GA	2	3	20	21	3	2	0	5	1	8	1	66
Hawaii	HI	0	0	5	4	0	0	0	2	0	2	0	13
Idaho	ID	0	0	9	2	0	0	0	1	0	2	0	14
Illinois	IL	3	7	35	25	8	2	0	10	4	13	5	112
Indiana	IN	1	1	17	8	1	1	0	2	2	5	1	39
Iowa	IA	1	1	8	4	1	1	0	2	0	3	0	21
Kansas	KS	1	1	6	4	1	0	0	1	1	2	1	18
Kentucky	KY	0	1	10	7	2	2	0	2	2	2	2	30
Louisiana	LA	3	2	13	11	4	1	0	5	1	5	3	48
Maine	ME	0	0	4	1	1	0	2	1	0	3	1	13
Maryland	MD	3	3	7	13	3	2	0	4	3	7	2	47
Massachusetts	MA	4	4	7	15	5	3	1	4	2	12	4	61
Michigan	MI	3	7	40	36	9	3	2	10	6	12	6	134
Minnesota	MN	1	3	13	4	3	2	0	2	2	3	1	34
Mississippi	MS	1	1	9	9	1	1	1	1	0	2	1	27
Missouri	MO	3	5	14	14	4	3	1	4	2	5	2	57
Montana	MT	0	0	2	2	0	0	0	0	0	1	0	5
Nebraska	NE	1	1	5	2	2	0	0	1	1	2	1	16
Nevada	NV	0	0	7	6	2	0	0	2	1	4	0	22
New Hampshire	NH	1	1	4	2	1	0	0	1	0	2	0	12
New Jersey	NJ	1	3	24	30	6	2	2	9	3	13	1	94
New Mexico	NM	0	1	7	3	1	1	1	1	1	1	0	17
New York	NY	9	12	43	65	19	11	2	32	17	46	5	261
North Carolina	NC	3	4	21	15	5	3	0	5	3	10	3	72
North Dakota	ND	0	0	6	2	1	0	0	1	0	1	0	11
Ohio	OH	5	7	41	34	8	4	2	9	6	11	4	131
Oklahoma	OK	0	1	13	5	1	1	1	3	0	4	1	30
Oregon	OR	1	2	9	6	1	1	0	1	0	3	0	24
Pennsylvania	PA	4	8	59	37	13	4	1	8	9	17	4	164
Puerto Rico	PR	1	2	5	10	1	1	0	4	2	2	1	29
Rhode Island	RI	1	1	2	4	1	0	0	1	0	1	1	12
South Carolina	SC	0	1	18	10	3	1	0	3	1	5	2	44
South Dakota	SD	0	0	3	1	1	0	0	1	0	1	0	7
Tennessee	TN	2	2	13	10	5	2	0	4	2	5	2	47
Texas	TX	5	13	43	46	15	4	2	13	8	22	3	174
Utah	UT	1	1	5	1	1	1	0	1	1	1	1	14
Vermont	VT	0	1	2	1	1	0	0	1	0	1	0	7
Virginia	VA	2	5	17	14	4	2	2	6	3	7	1	63
Washington	WA	1	1	27	9	2	1	0	3	2	2	0	48
West Virginia	WV	1	1	8	6	3	0	1	3	0	4	2	29
Wisconsin	WI	2	3	21	6	2	2	0	3	2	4	2	47
Wyoming	WY	0	0	3	0	0	0	0	0	0	0	0	3

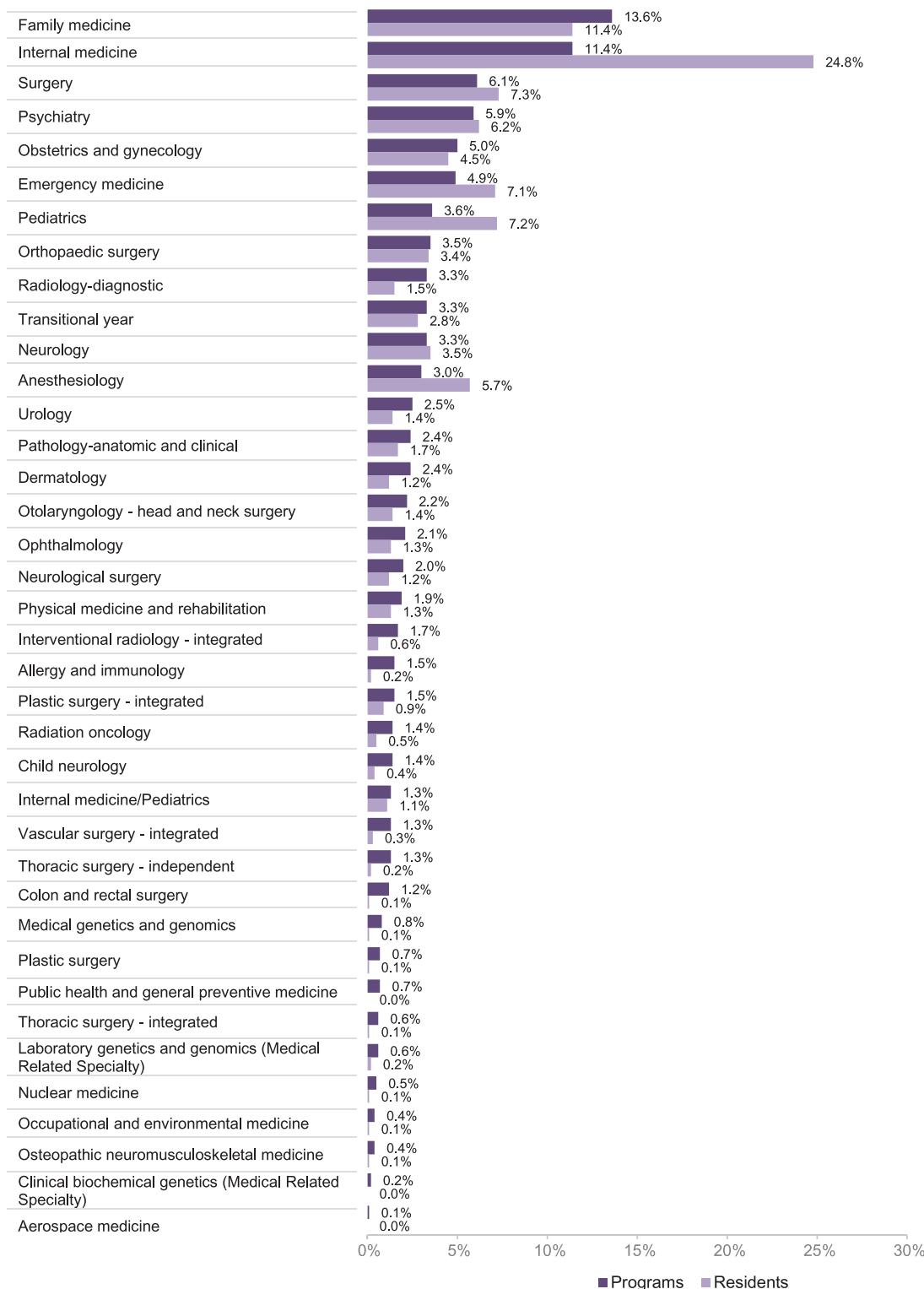
Abbreviations: AI, Allergy and immunology; D, Dermatology; FM, Family medicine; IM, Internal medicine; N, Neurology; CHN, Child neurology; ONM, Osteopathic neuromusculoskeletal medicine; PD, Pediatrics; PM, Physical medicine and rehabilitation; P, Psychiatry; IP, Internal medicine/Pediatrics.

TABLE B.8

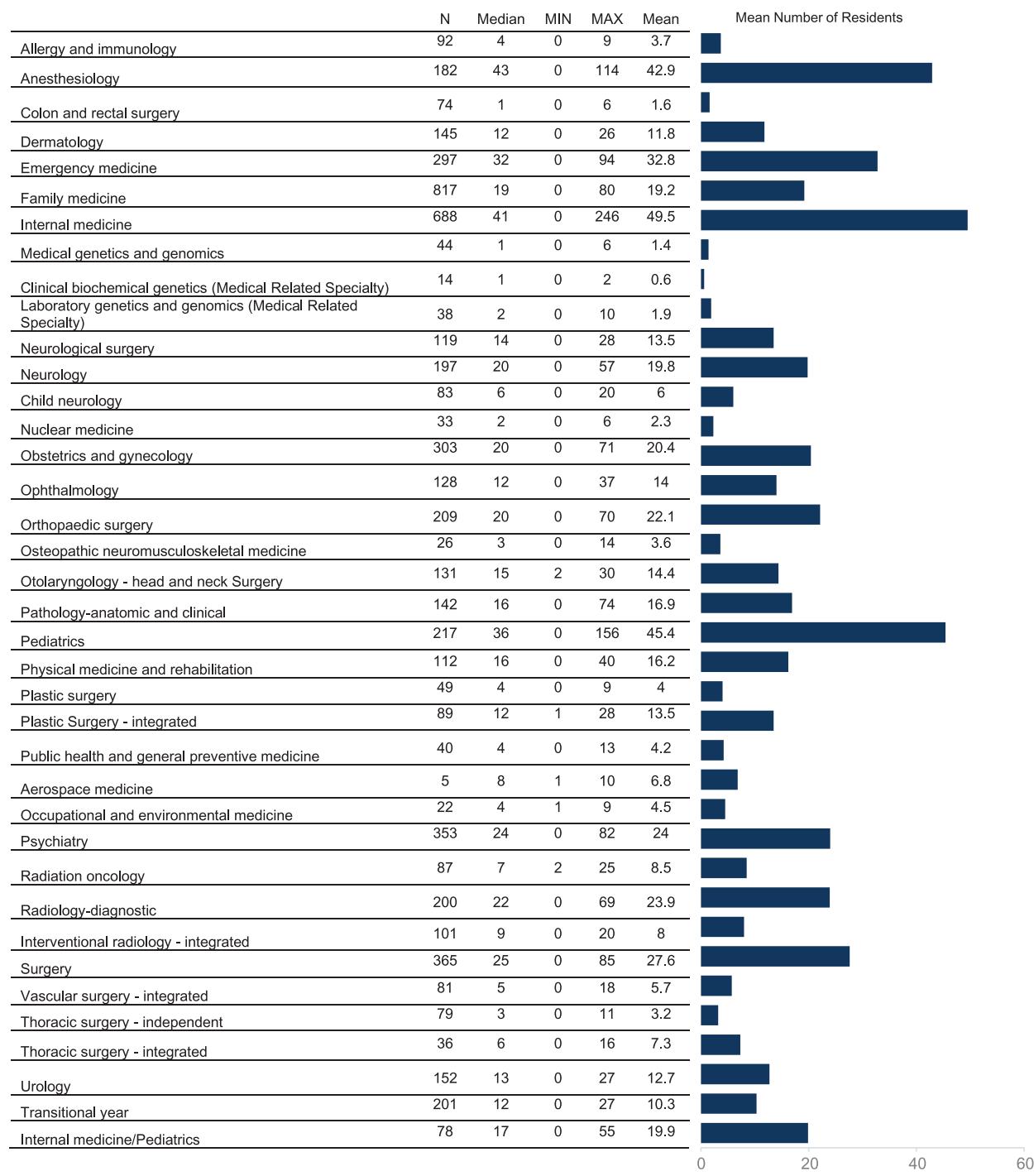
## Surgical Specialty Programs by Specialty and State

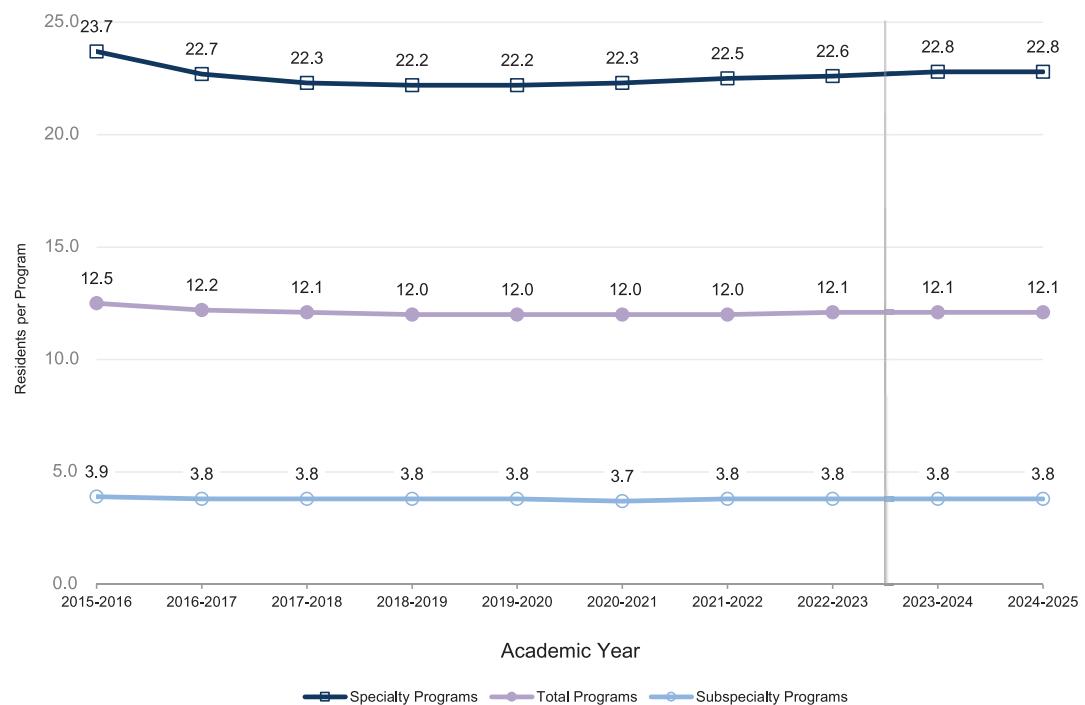
State Name	State Abbreviation	CRS	NS	OBG	OPH	ORS	OTO	PS	PSI	GS	VSI	TS	TSI	U	Total
Overall	-	74	119	303	128	209	131	49	89	365	81	79	36	152	1,815
Alabama	AL	1	1	2	1	3	1	1	1	3	1	1	0	2	18
Alaska	AK	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	AZ	1	4	4	2	3	2	1	1	8	1	1	0	2	30
Arkansas	AR	0	1	1	1	1	1	0	0	1	1	0	0	1	8
California	CA	3	10	25	10	17	11	4	8	27	10	8	6	12	151
Colorado	CO	1	1	2	1	1	1	1	1	5	1	1	0	1	17
Connecticut	CT	1	2	6	1	2	2	0	1	6	2	2	1	2	28
Delaware	DE	0	0	1	0	0	0	0	0	2	0	0	0	0	3
District of Columbia	DC	1	2	3	3	2	2	0	1	3	1	0	0	2	20
Florida	FL	6	4	17	7	11	4	4	5	29	2	2	1	7	99
Georgia	GA	2	2	6	2	4	2	1	1	8	1	1	1	2	33
Hawaii	HI	0	0	2	0	2	1	0	0	2	0	0	0	1	8
Idaho	ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	IL	3	7	13	6	7	6	1	6	13	4	4	1	8	79
Indiana	IN	1	2	3	1	1	1	1	1	3	1	1	1	1	18
Iowa	IA	0	1	1	1	1	1	1	1	3	1	1	1	1	14
Kansas	KS	0	1	3	1	2	1	0	1	3	0	1	0	1	14
Kentucky	KY	2	2	3	2	2	2	1	2	3	0	2	1	2	24
Louisiana	LA	3	3	5	3	4	3	1	1	6	1	1	0	4	35
Maine	ME	0	0	1	0	0	0	0	0	1	1	0	0	1	4
Maryland	MD	1	4	5	4	5	3	1	1	8	1	2	1	3	39
Massachusetts	MA	4	5	6	4	4	5	3	4	10	3	4	1	6	59
Michigan	MI	5	5	24	6	17	8	2	2	24	3	3	1	9	109
Minnesota	MN	2	2	2	2	2	2	1	2	3	2	2	0	2	24
Mississippi	MS	0	1	1	1	1	1	0	1	2	0	1	0	1	10
Missouri	MO	1	3	5	4	5	4	0	3	5	2	1	0	3	36
Montana	MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nebraska	NE	1	1	2	1	1	1	1	1	2	0	1	0	2	14
Nevada	NV	0	0	2	0	2	1	0	1	3	0	0	0	0	9
New Hampshire	NH	0	1	1	1	1	1	0	1	1	1	0	0	1	9
New Jersey	NJ	1	2	17	1	10	2	1	2	15	3	2	0	5	61
New Mexico	NM	0	1	1	1	1	1	0	1	1	1	0	0	1	9
New York	NY	8	12	36	17	19	12	4	8	40	10	8	6	16	196
North Carolina	NC	0	4	9	4	5	3	1	3	9	3	4	2	4	51
North Dakota	ND	0	0	0	0	1	0	0	0	1	0	0	0	0	2
Ohio	OH	4	4	15	5	16	8	3	4	20	5	4	3	6	97
Oklahoma	OK	0	1	4	1	2	2	1	0	3	0	0	0	1	15
Oregon	OR	1	1	1	1	2	1	0	1	2	1	1	0	1	13
Pennsylvania	PA	6	7	16	9	16	11	6	5	23	7	6	2	10	124
Puerto Rico	PR	0	0	3	1	1	1	0	0	2	0	0	0	2	10
Rhode Island	RI	1	1	1	1	1	0	0	1	1	0	0	0	1	8
South Carolina	SC	1	1	5	2	3	1	1	2	6	1	0	1	2	26
South Dakota	SD	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Tennessee	TN	2	2	8	2	4	2	2	1	7	0	1	0	4	35
Texas	TX	5	8	23	9	15	9	4	5	26	5	6	3	10	128
Utah	UT	2	1	1	1	1	1	1	1	2	0	1	1	1	14
Vermont	VT	0	1	1	0	1	1	0	0	1	0	0	0	1	6
Virginia	VA	1	4	7	3	4	4	0	4	8	2	2	1	3	43
Washington	WA	2	1	3	2	2	2	0	1	5	1	1	1	3	24
West Virginia	WV	0	1	3	1	2	1	0	1	4	1	1	0	2	17
Wisconsin	WI	1	2	3	2	2	2	0	2	4	1	2	0	2	23
Wyoming	WY	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Abbreviations: CRS, Colon and rectal surgery; NS, Neurological surgery; OBG, Obstetrics and gynecology; OPH, Ophthalmology; ORS, Orthopaedic surgery; OTO, Otolaryngology - head and neck surgery; PS, Plastic surgery; PSI, Plastic surgery - integrated; GS, Surgery; VSI, Vascular surgery - integrated; TS, Thoracic surgery; TSI, Thoracic surgery - integrated; U, Urology.

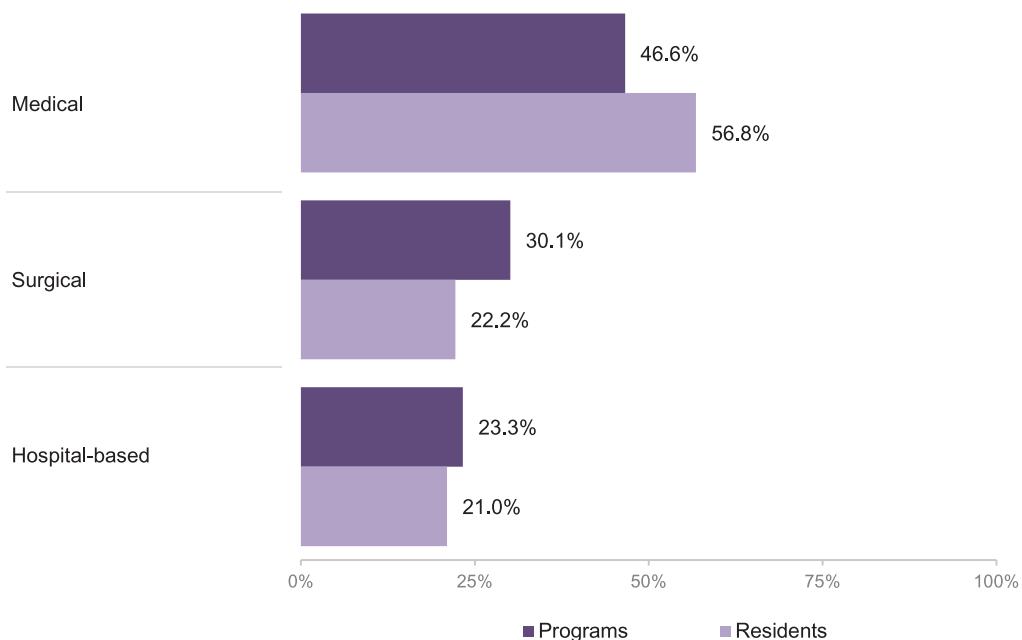
**FIGURE B.9****Percentage of Programs and Residents in Each Specialty**

Notes: The percentages represent the number of programs/on duty residents in each specialty divided by all programs/on duty residents in specialty programs. Total number of specialty programs = 6,029. Total number of residents in specialties = 137,432

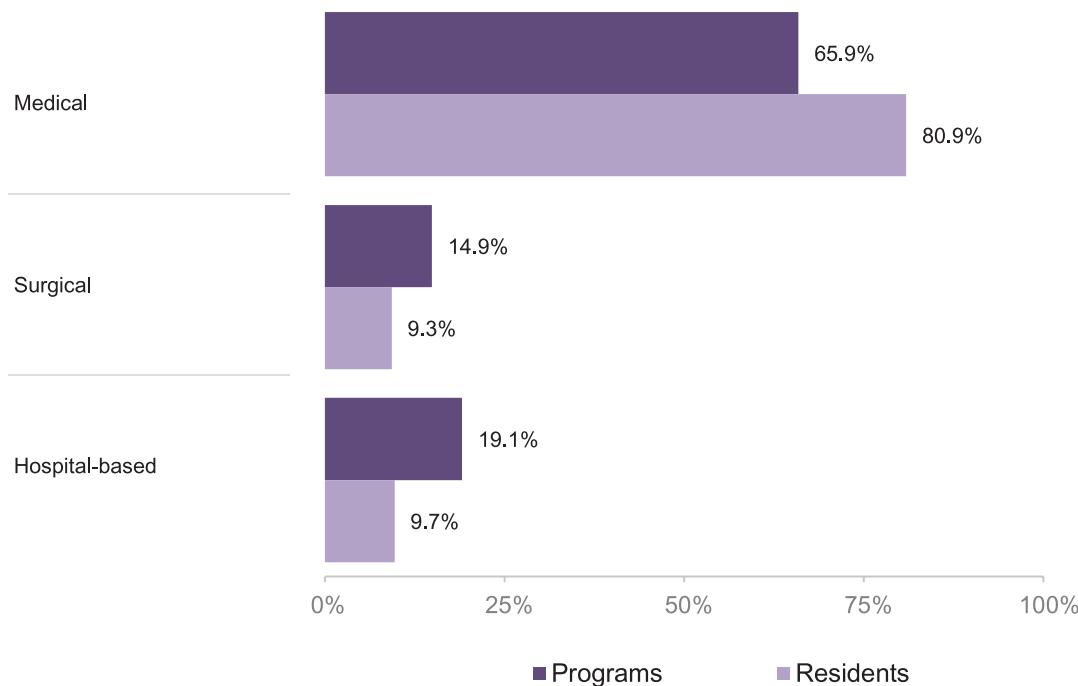
**FIGURE B.10****Mean Number of Residents per Program by Specialty**

**FIGURE B.11****Mean Number of Residents per Program by Academic Year, 2015-2016 to 2024-2025**

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

**FIGURE B.12****Percent of Programs and Residents in Specialties by Specialty Group**

Notes: Total number of specialty programs = 6,029. Total number of residents in specialties = 137,432.

**FIGURE B.13****Percent of Programs and Residents in Subspecialties by Specialty Group**

Notes: Total number of subspecialty programs = 7,733. Total number of residents in subspecialties = 29,651. Not shown are those subspecialty programs classified as Sponsor Institution-based Fellowships (N = 9).



# Resident Characteristics

This section summarizes the characteristics of all active residents, and shows aggregate statistics on their distribution by specialty, medical school type, gender, and race/ethnicity since the 2015-2016 academic year. In addition, this section includes information on residents entering pipeline and continuing graduate medical education (GME) programs.

## Active Residents

Of the total number of active residents (167,083), 137,432 (82.3%) are in specialty programs and 29,651 (17.7%) are in subspecialty programs. Only 0.1% (194) of the total number of active residents are part-time. In terms of trends, there has been a 34.3% increase in total active residents since 2015-2016, with growth in the number of specialty residents at 34.2%, and growth in the number of subspecialty residents at 35.0% over the last 10 years. Among residents in specialty programs, 56.8% (78,001) are in medical specialties, 21.0% (28,861) are in hospital-based specialties, and 22.9% (30,570) are in surgical specialties. The specialties with the highest percentage of total active residents are:

- Internal medicine (20.4%)
- Family medicine (9.4%)
- Surgery (6.0%)
- Pediatrics (5.9%)

## Geographic Distribution

Based on the most recent US Census estimates for 2024, there are approximately 48.67 active residents (40.03 specialty, 8.64 subspecialty) per 100,000 population, including Puerto Rico. In line with the states having the highest number of programs, the following states have the highest number of total active residents:

- New York (20,376)
- California (15,798)
- Texas (11,743)
- Pennsylvania (10,399)

## Active Residents by Medical School Type

Of the 137,432 total active residents in specialty programs, 57.8% (79,490) are US allopathic medical school graduates, 22.5% (30,883) are international medical school graduates (IMGs), and 19.6% (26,917) are osteopathic medical school graduates. There are also 58 Canadian medical school graduates, and 84 residents for whom medical school type was unknown. The distribution by medical school type is slightly different in subspecialty programs

(29,651 active residents), with 54.4% of active residents being graduates of US allopathic medical schools, 31.7% being graduates of international medical schools, 13.6% being graduates of osteopathic medical schools, and less than 1% being graduates of Canadian medical schools. Over the last 10 years, there has been an 18.7% increase in US allopathic medical school graduates, a 146.5% increase in osteopathic medical school graduates, and a 29.5% increase in IMGs. As of this report, the specialties with the highest percentage of IMGs include:

- Nuclear medicine (71.4%)
- Medical genetics and genomics (50.0%)
- Pathology – anatomic and clinical (43.9%)
- Internal medicine (41.2%)

While internal medicine has the fourth-highest percentage of IMGs, this specialty accounts for the highest number of IMGs (14,048) among all specialty programs.

## Active Residents by Gender and Race/Ethnicity

Gender and race/ethnicity reported for the 2024-2025 academic year are based upon self-reported data provided by the Association of American Medical Colleges (AAMC). Note that beginning with the *2021-2022 Data Resource Book*, the ACGME has adopted a race/ethnicity reporting standard in line with that of the Integrated Postsecondary Education Data System as follows:

- If an individual self-identifies as Hispanic only, or Hispanic and any race category, report as Hispanic
- If an individual self-identifies as not Hispanic; more than one race category, report as two or more races (“Multiple Race/Ethnicity”)

Of the 167,083 active residents, 49.6% are male, 49.5% are female, and 0.9% are not reported. The specialties with the highest percentage of female residents include:

- Obstetrics and gynecology (88.2%)
- Pediatrics (74.8%)
- Dermatology (65.3%)
- Allergy and immunology (64.9%)
- Child neurology (64.9%)

The specialties with the lowest percentage of female residents include:

- Interventional radiology - independent (14.8%)
- Aerospace Medicine (23.5%)
- Interventional radiology - integrated (23.8%)
- Orthopaedic Surgery (23.9%)

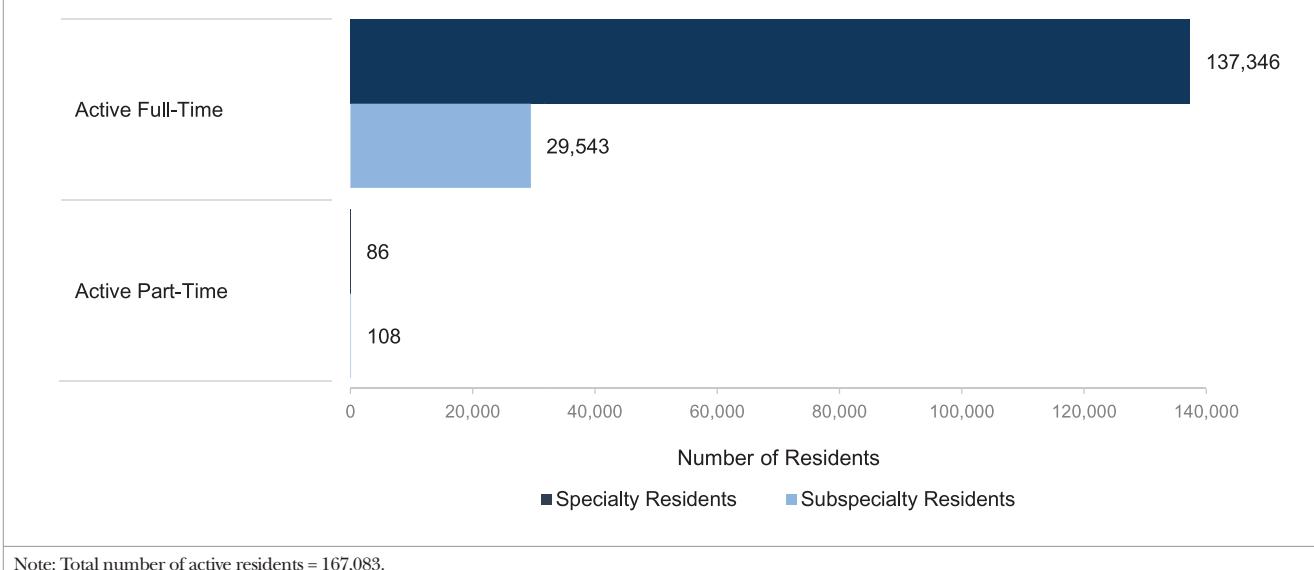
Overall, 44.7% of all active residents are White; 27.8% are Asian; 10.3% are Hispanic, Latino, or of Spanish origin; 6.8% are Black or African American; 0.1% are American Indian or Alaskan Native; and 0.05% are Native Hawaiian or Pacific Islander. Of all active residents, 4.7% were reported as Multiple Race/Ethnicity; 3.6% were reported as "Other," and 2.1% were reported as "Unknown."

### **Residents Entering the Pipeline**

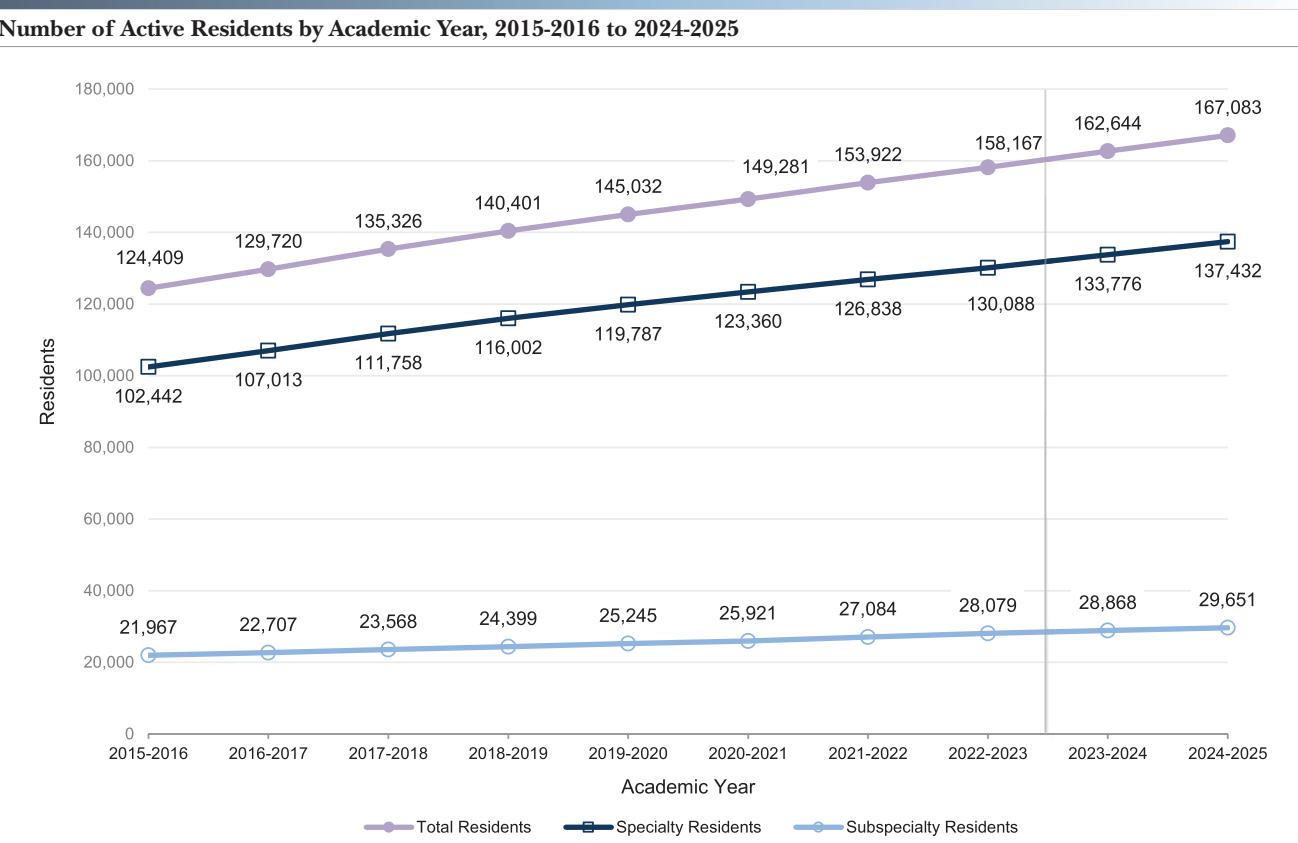
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The total number of residents entering the pipeline reached 38,967 for the 2024-2025 academic year. Since

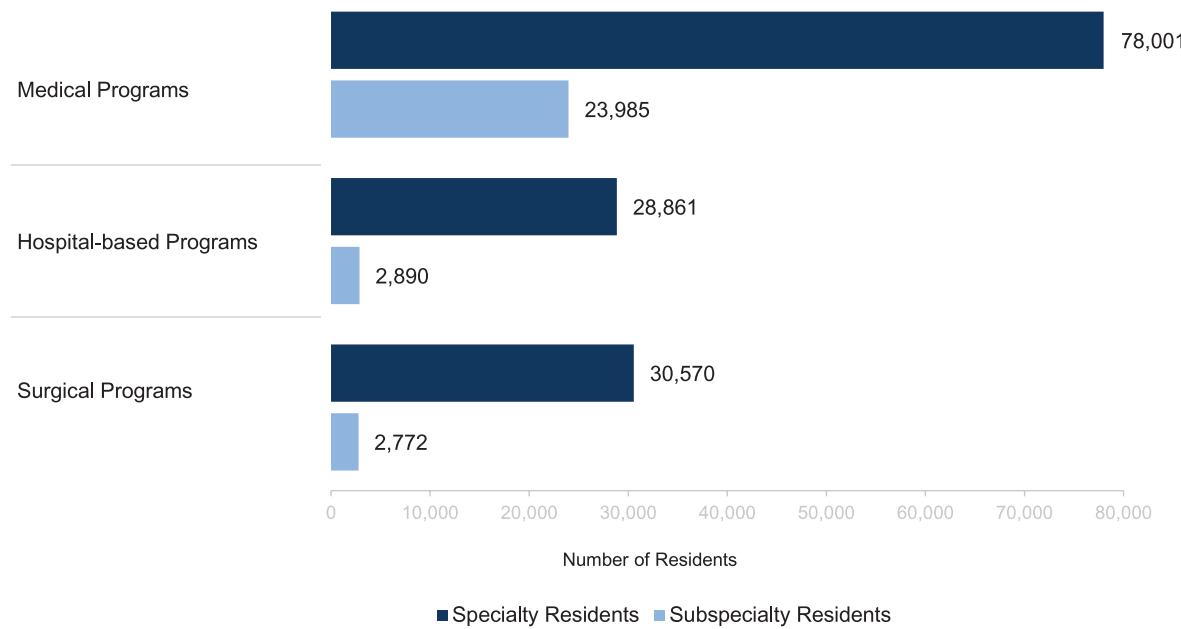
2015-2016, there has been a 36.9% increase in residents entering the pipeline, with varying patterns in growth by medical school type (12.9% increase among US allopathic medical school graduates, 48.3% increase among IMGs, and 146.2% increase among osteopathic medical school graduates). Among the 2024-2025 residents entering the pipeline, 53.3% (20,777) are US LCME-accredited medical school graduates, 25.5% (9,929) are IMGs, 21.1% (8,241) are osteopathic medical school graduates, and less than one percent (16) are Canadian medical school graduates.<sup>18</sup>

**FIGURE C.1****Number of Active Residents by Status**

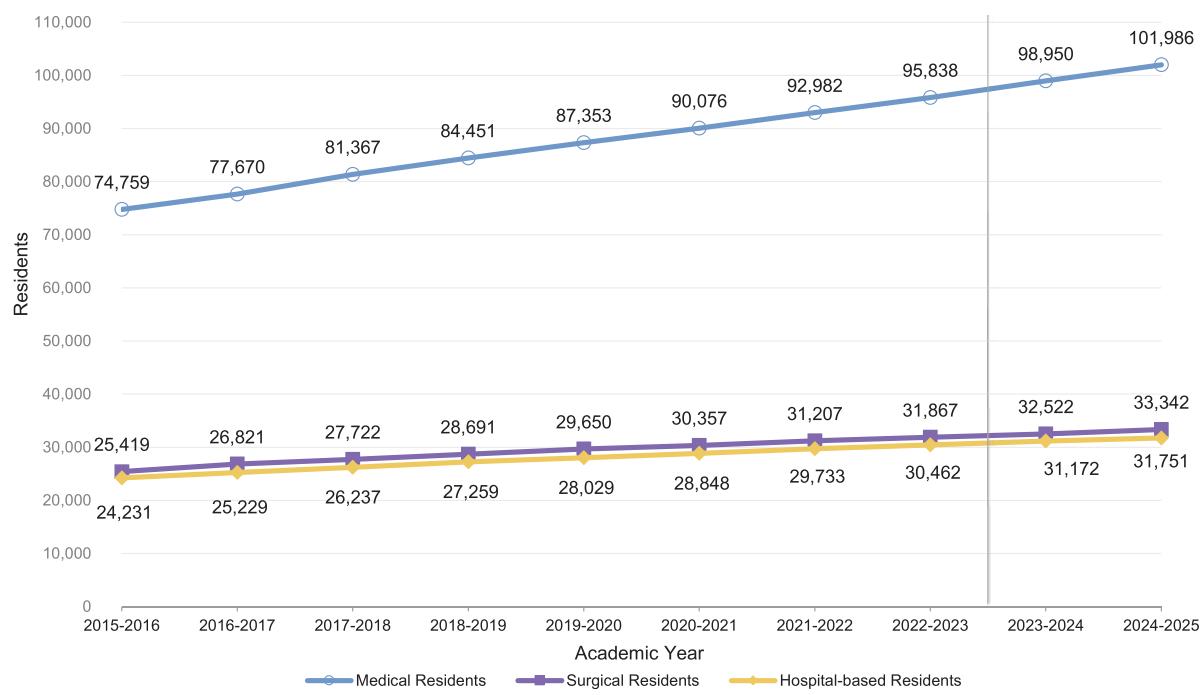
Note: Total number of active residents = 167,083.

**FIGURE C.2****Number of Active Residents by Academic Year, 2015-2016 to 2024-2025**

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

**FIGURE C.3****Number of Active Residents by Specialty Group**

Notes: Total number of active residents in specialty programs = 137,432. Total number of active residents in subspecialty programs = 29,651. Residents in Sponsor Institution-based Fellowship Programs are excluded above (n=4).

**FIGURE C.4****Number of Active Residents by Specialty Group and Academic Year, 2015-2016 to 2024-2025**

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

TABLE C.5

## Number of Active Residents by Specialty and Subspecialty, Position Type, and Resident Year

Specialty	Total Residents	Resident Year									
		1		2		3		4		5	
		Cat	Prel	Cat	Prel	Cat	Prel	Cat	Cat	Cat	Cat
		#	#	#	#	#	#	#	#	#	#
OVERALL	167,083	57,227	3,343	47,002	314	41,709	1	12,877	3,951	445	214
TOTAL PIPELINE	134,730	38,967	3,343	38,162	314	36,463	1	12,870	3,951	445	214
Allergy and immunology	342	178		164							
Anesthesiology	7,802	1,927		2,103		2,020		1,752			
- Adult cardiothoracic anesthesiology	263	263									
- Critical care medicine	180	180									
- Obstetric anesthesiology	43	43									
- Pain medicine (multidisciplinary)	415	415									
- Pediatric anesthesiology	149	149									
- Pediatric cardiac anesthesiology	11	11									
- Regional anesthesiology and acute pain medicine	81	81									
Colon and rectal surgery	116	116									
Dermatology	1,704	574		564		558		8			
- Dermatopathology (multidisciplinary)	71	71									
- Micrographic surgery and dermatologic oncology	97	97									
- Pediatric dermatology	21	21									
Emergency medicine	9,752	3,129		3,048		2,943		632			
- Emergency medical services	104	104									
- Medical toxicology	107	56		51							
- Pediatric emergency medicine	152	52		58		42					
- Sports medicine	21	21									
- Undersea and hyperbaric medicine	15	15									
Family medicine	15,687	5,387		5,224		5,034		42			
- Clinical informatics	24	14		10							
- Geriatric medicine	28	28									
- Hospice and palliative medicine (multidisciplinary)	479	479									
- Sports medicine	305	305									
Internal medicine	34,086	11,196	1,941	10,798		10,151					
- Adult congenital heart disease	31	18		13							
- Advanced heart failure and transplant cardiology	92	92									
- Cardiovascular disease	3,762	1,295		1,256		1,211					
- Clinical cardiac electrophysiology	350	189		161							
- Clinical informatics	79	38		41							
- Critical care medicine	388	225		163							
- Endocrinology, diabetes, and metabolism	773	398		375							
- Gastroenterology	2,152	748		721		683					
- Geriatric medicine	264	264									
- Hematology and medical oncology	2,303	808		773		722					
- Infectious disease	814	421		393							
- Interventional cardiology	365	365									
- Interventional pulmonology	34	34									
- Medical oncology	5	3		2							
- Nephrology	887	446		441							
- Pulmonary disease	62	33		29							
- Pulmonary disease and critical care medicine	2,445	886		800		759					
- Rheumatology	591	309		282							
- Sleep medicine (multidisciplinary)	239	239									
- Transplant hepatology	43	43									
Medical genetics and genomics	60	31		29							
- Medical biochemical genetics	18	18									
- Molecular genetic pathology (multidisciplinary)	63	63									
Clinical biochemical genetics	8	5		3							
Laboratory genetics and genomics	74	40		34							
Neurological surgery	1,611	244		240		238		226	223	226	214
- Neuroendovascular intervention	2	2									

**TABLE C.5 Continued****Number of Active Residents by Specialty and Subspecialty, Position Type, and Resident Year**

Specialty	Total Residents	Resident Year									
		1		2		3		4	5	6	7
		Cat	Prel	Cat	Prel	Cat	Prel	Cat	Cat	Cat	Cat
		#	#	#	#	#	#	#	#	#	#
Neurology	3,900	1,098		1,104		1,037		661			
- Clinical neurophysiology	159	159									
- Epilepsy	172	172									
- Neurocritical care (multidisciplinary)	195	103		92							
- Neuroendovascular intervention	4	1		3							
- Neurodevelopmental disabilities	36	12		10		7		7			
- Neuromuscular medicine	86	86									
- Vascular neurology	186	186									
Child neurology	498	174		156		168					
Nuclear medicine	77	34		25		18					
Obstetrics and gynecology	6,178	1,564	25	1,556		1,531		1,502			
- Urogynecology and reconstructive pelvic surgery	175	57		61		57					
- Gynecologic oncology	260	91		85		84					
- Maternal-fetal medicine	445	150		147		148					
- Reproductive endocrinology and infertility	184	70		58		56					
- Complex family planning	66	37		29							
Ophthalmology	1,790	537		526		520		207			
- Ophthalmic plastic and reconstructive surgery	5	2		3							
Orthopaedic surgery	4,610	946		946		921		893	904		
- Adult reconstructive orthopaedics	55	55									
- Foot and ankle orthopaedics	15	15									
- Hand surgery	163	163									
- Musculoskeletal oncology	17	17									
- Orthopaedic sports medicine	219	219									
- Orthopaedic surgery of the spine	26	26									
- Orthopaedic trauma	20	20									
- Pediatric orthopaedics	34	34									
Osteopathic neuromusculoskeletal medicine	93	19		25		49					
Otolaryngology - head and neck surgery	1,883	394		388		376		358	367		
- Neurotology	39	18		21							
- Pediatric otolaryngology	34	34									
Pathology-anatomic and clinical	2,400	645		625		622		508			
- Blood banking/transfusion medicine	46	46									
- Clinical informatics	20	10		10							
- Chemical pathology	1	1									
- Cytopathology	106	106									
- Forensic pathology	57	57									
- Hematopathology	125	125									
- Medical microbiology	9	9									
- Neuropathology	55	27		28							
- Pediatric pathology	18	18									
- Selective pathology	184	184									
Pediatrics	9,845	3,332	121	3,211	99	3,082					
- Adolescent medicine	98	33		32		33					
- Child abuse pediatrics	49	13		14		22					
- Clinical informatics	29	16		13							
- Developmental-behavioral pediatrics	114	44		33		37					
- Neonatal-perinatal medicine	847	287		287		273					
- Pediatric cardiology	516	188		178		150					
- Pediatric critical care medicine	633	221		211		201					
- Pediatric emergency medicine	477	164		162		151					
- Pediatric endocrinology	252	91		83		78					
- Pediatric gastroenterology	348	119		119		110					
- Pediatric hematology/oncology	479	154		166		159					
- Pediatric infectious diseases	178	54		56		68					

TABLE C.5 *Continued*

## Number of Active Residents by Specialty and Subspecialty, Position Type, and Resident Year

Specialty	Total Residents	Resident Year									
		1		2		3		4		5	
		Cat	Prel	Cat	Prel	Cat	Prel	Cat	Cat	Cat	Cat
		#	#	#	#	#	#	#	#	#	#
- Pediatric nephrology	139	47		49		43					
- Pediatric pulmonology	194	62		60		72					
- Pediatric rheumatology	101	37		26		38					
- Sports medicine	28	28									
- Pediatric transplant hepatology	15	15									
- Pediatric hospital medicine	236	134		102							
Physical medicine and rehabilitation	1,810	488		554		541		227			
- Brain injury medicine	28	28									
- Neuromuscular medicine	0										
- Spinal cord injury medicine	25	25									
- Pediatric rehabilitation medicine	26	13		13							
- Sports medicine	45	45									
Plastic surgery	194	64		63		67					
Plastic Surgery - integrated	1,204	214		212		208		202	192	176	
- Craniofacial surgery	5	5									
- Hand surgery	29	29									
Public health and general preventive medicine	169	88		76		5					
- Undersea and hyperbaric medicine	3	3									
Aerospace medicine	34	18		16							
Occupational and environmental medicine	98	49		49							
Psychiatry	8,481	2,360		2,333		2,191		1,597			
- Addiction medicine (multidisciplinary)	216	216									
- Addiction psychiatry	79	78		1							
- Child and adolescent psychiatry	1,040	532		508							
- Forensic psychiatry	95	95									
- Geriatric psychiatry	40	40									
- Consultation-liaison psychiatry	116	116									
Radiation oncology	736	193		174		186		183			
Radiology-diagnostic	4,770	1,225		1,200		1,165		1,154	26		
- Abdominal radiology	56	56									
- Musculoskeletal radiology	36	36									
- Neuroendovascular intervention	8	4		4							
- Neuroradiology	309	309									
- Nuclear radiology	15	15									
- Pediatric radiology	58	58									
Interventional radiology - independent	162	135		27							
Interventional radiology - integrated	811	180		169		158		145	152	7	
Surgery	10,074	1,783	1,256	1,775	215	1,763	1	1,679	1,602		
- Complex general surgical oncology	136	69		67							
- Hand surgery	9	9									
- Pediatric surgery	89	42		47							
- Surgical critical care	374	374									
- Vascular surgery - independent	281	140		141							
Vascular surgery - integrated	458	102		102		87		88	79		
Thoracic surgery - independent	254	110		108		36					
- Congenital cardiac surgery	11	5		6							
Thoracic surgery - integrated	264	49		49		49		38	43	36	
Urology	1,934	402		406		395		368	363		
- Urogynecology and reconstructive pelvic surgery	40	17		17		6					
- Pediatric urology	39	20		19							
Transitional year	2,070	2,070									
Internal medicine/Pediatrics	1,555	386		389		380		400			
Health care administration, leadership, and management	4	3		1							

Note: Pipeline specialties are highlighted.

Abbreviations: Cat, categorical resident positions; Prel, preliminary resident positions.

TABLE C.6

## Number of Active Residents by Specialty and Subspecialty and Academic Year, 2020-2021 to 2024-2025

Specialty	Academic Year					5-Year Change	
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025		
	#	#	#	#	#	#	%
OVERALL	149,200	153,843	158,079	162,644	167,083	17,883	12.0%
TOTAL PIPELINE	121,110	124,521	127,604	131,111	134,730	13,620	11.2%
Allergy and immunology	312	320	323	330	342	30	9.6%
Anesthesiology	6,895	7,086	7,241	7,488	7,802	907	13.2%
- Adult cardiothoracic anesthesiology	235	238	254	257	263	28	11.9%
- Critical care medicine	194	202	210	199	180	-14	-7.2%
- Clinical informatics	1	2	0	0	0	N/A	N/A
- Obstetric anesthesiology	48	53	48	49	43	-5	-10.4%
- Pain medicine (multidisciplinary)	400	409	411	414	415	15	3.8%
- Pediatric anesthesiology	185	193	183	150	149	-36	-19.5%
- Pediatric cardiac anesthesiology*			15	13	11	-4	-26.7%
- Regional anesthesiology and acute pain medicine	77	88	92	84	81	4	5.2%
Colon and rectal surgery	105	107	110	112	116	11	10.5%
Dermatology	1,612	1,609	1,633	1,671	1,704	92	5.7%
- Dermatopathology (multidisciplinary)	69	71	77	68	71	2	2.9%
- Micrographic surgery and dermatologic oncology	86	88	91	93	97	11	12.8%
- Pediatric dermatology*		3	19	24	21	18	600.0%
Emergency medicine	8,642	9,037	9,346	9,614	9,752	1,110	12.8%
- Clinical informatics	10	11	0	0	0	N/A	N/A
- Emergency medical services	86	104	95	108	104	18	20.9%
- Medical toxicology	79	81	93	104	107	28	35.4%
- Pediatric emergency medicine	134	140	143	151	152	18	13.4%
- Sports medicine	16	17	18	16	21	5	31.3%
- Undersea and hyperbaric medicine	11	12	11	13	15	4	36.4%
Family medicine	14,225	14,657	15,010	15,341	15,687	1,462	10.3%
- Clinical informatics	10	18	23	23	24	14	140.0%
- Geriatric medicine	39	45	43	45	28	-11	-28.2%
- Hospice and palliative medicine (multidisciplinary)	401	445	481	484	479	78	19.5%
- Sports medicine	278	282	294	301	305	27	9.7%
Internal medicine	30,087	30,936	31,794	32,958	34,086	3,999	13.3%
- Adult congenital heart disease	28	34	30	28	31	3	10.7%
- Advanced heart failure and transplant cardiology	101	101	97	86	92	-9	-8.9%
- Cardiovascular disease	3,240	3,320	3,456	3,605	3,762	522	16.1%
- Clinical cardiac electrophysiology	276	310	329	340	350	74	26.8%
- Clinical informatics	36	50	65	73	79	43	119.4%
- Critical care medicine	280	320	358	374	388	108	38.6%
- Endocrinology, diabetes, and metabolism	689	700	721	746	773	84	12.2%
- Gastroenterology	1,844	1,911	1,975	2,067	2,152	308	16.7%
- Geriatric medicine	272	289	270	254	264	-8	-2.9%
- Hematology	18	17	0	0	0	N/A	N/A
- Hematology and medical oncology	1,895	1,970	2,098	2,186	2,303	408	21.5%
- Infectious disease	763	798	817	830	814	51	6.7%
- Interventional cardiology	355	359	373	376	365	10	2.8%
- Interventional pulmonology*				15	34	19	126.7%
- Medical oncology	34	34	10	5	5	-29	-85.3%
- Nephrology	829	850	872	887	887	58	7.0%
- Pulmonary disease	70	67	65	52	62	-8	-11.4%
- Pulmonary disease and critical care medicine	2,085	2,175	2,268	2,359	2,445	360	17.3%
- Rheumatology	520	531	551	580	591	71	13.7%
- Sleep medicine (multidisciplinary)	190	202	214	226	239	49	25.8%
- Transplant hepatology	47	48	48	49	43	-4	-8.5%
Medical genetics and genomics	68	72	64	60	60	-8	-11.8%
- Medical biochemical genetics	14	17	15	14	18	4	28.6%
- Molecular genetic pathology (multidisciplinary)	57	58	59	59	63	6	10.5%
Clinical biochemical genetics*				10	8	-2	-20.0%
Laboratory genetics and genomics*				81	74	-7	-8.6%
Neurological surgery	1,561	1,579	1,593	1,607	1,611	50	3.2%
- Neuroendovascular intervention	1	3	3	3	2	1	100.0%

TABLE C.6 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Academic Year, 2020-2021 to 2024-2025

Specialty	Academic Year					5-Year Change	
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025		
	#	#	#	#	#	#	%
Neurology	3,221	3,369	3,530	3,711	3,900	679	21.1%
- Brain injury medicine	1	1	0	0	0	N/A	N/A
- Clinical neurophysiology	143	149	153	141	159	16	11.2%
- Epilepsy	134	154	158	151	172	38	28.4%
- Neurocritical care (multidisciplinary) *		12	120	167	195	183	1525.0%
- Neuroendovascular intervention	3	2	1	5	4	1	33.3%
- Neurodevelopmental disabilities	26	27	31	33	36	10	38.5%
- Neuromuscular medicine	74	73	77	93	86	12	16.2%
- Vascular neurology	162	151	189	202	186	24	14.8%
Child neurology	419	455	479	489	498	79	18.9%
Nuclear medicine	69	76	77	81	77	8	11.6%
Obstetrics and gynecology	5,769	5,861	5,962	6,076	6,178	409	7.1%
- Urogynecology and reconstructive pelvic surgery	146	151	155	167	175	29	19.9%
- Gynecologic oncology	221	229	240	249	260	39	17.6%
- Maternal-fetal medicine	391	404	416	435	445	54	13.8%
- Reproductive endocrinology and infertility	166	171	173	176	184	18	10.8%
- Complex family planning *	32	50	55	58	66	34	106.3%
Ophthalmology	1,531	1,693	1,738	1,764	1,790	259	16.9%
- Ophthalmic plastic and reconstructive surgery	3	5	3	5	5	2	66.7%
Orthopaedic surgery	4,415	4,463	4,481	4,538	4,610	195	4.4%
- Adult reconstructive orthopaedics	50	53	52	53	55	5	10.0%
- Foot and ankle orthopaedics	17	16	16	17	15	-2	-11.8%
- Hand surgery	155	154	159	162	163	8	5.2%
- Musculoskeletal oncology	16	16	14	16	17	1	6.3%
- Orthopaedic sports medicine	211	216	223	216	219	8	3.8%
- Orthopaedic surgery of the spine	25	25	24	26	26	1	4.0%
- Orthopaedic trauma	20	20	20	19	20	0	0.0%
- Pediatric orthopaedics	34	35	39	34	34	0	0.0%
Osteopathic neuromusculoskeletal medicine	68	84	83	83	93	25	36.8%
Otolaryngology - head and neck surgery	1,723	1,763	1,795	1,836	1,883	160	9.3%
- Neurotology	36	37	37	39	39	3	8.3%
- Pediatric otolaryngology	34	42	40	44	34	0	0.0%
Pathology-anatomic and clinical	2,346	2,340	2,342	2,349	2,400	54	2.3%
- Blood banking/transfusion medicine	52	44	44	45	46	-6	-11.5%
- Clinical informatics	19	20	23	22	20	1	5.3%
- Chemical pathology			1	2	1	0	0.0%
- Cytopathology	127	123	116	106	106	-21	-16.5%
- Forensic pathology	49	58	60	61	57	8	16.3%
- Hematopathology	117	126	139	127	125	8	6.8%
- Medical microbiology	16	12	14	9	9	-7	-43.7%
- Neuropathology	53	53	56	59	55	2	3.8%
- Pediatric pathology	21	22	21	15	18	-3	-14.3%
- Selective pathology	176	183	176	185	184	8	4.5%
Pediatrics	9,419	9,476	9,539	9,695	9,845	426	4.5%
- Adolescent medicine	97	93	91	97	98	1	1.0%
- Child abuse pediatrics	44	46	58	58	49	5	11.4%
- Clinical informatics	19	28	28	30	29	10	52.6%
- Developmental-behavioral pediatrics	114	113	103	110	114	0	0.0%
- Neonatal-perinatal medicine	783	795	830	851	847	64	8.2%
- Pediatric cardiology	468	482	480	496	516	48	10.3%
- Pediatric critical care medicine	575	594	618	623	633	58	10.1%
- Pediatric emergency medicine	434	446	454	468	477	43	9.9%
- Pediatric endocrinology	230	228	249	232	252	22	9.6%
- Pediatric gastroenterology	329	330	340	344	348	19	5.8%
- Pediatric hematology/oncology	475	482	463	480	479	4	0.8%
- Pediatric infectious diseases	175	180	193	179	178	3	1.7%

TABLE C.6 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Academic Year, 2020-2021 to 2024-2025

Specialty	Academic Year					5-Year Change	
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025		
	#	#	#	#	#	#	%
- Pediatric nephrology	120	132	144	147	139	19	15.8%
- Pediatric pulmonology	176	184	194	197	194	18	10.2%
- Pediatric rheumatology	88	102	109	101	101	13	14.8%
- Sports medicine	26	28	27	27	28	2	7.7%
- Pediatric transplant hepatology	11	15	12	12	15	4	36.4%
- Pediatric hospital medicine *	115	164	191	210	236	121	105.2%
Physical medicine and rehabilitation	1,510	1,578	1,640	1,738	1,810	300	19.9%
- Brain injury medicine	17	26	22	22	28	11	64.7%
- Neuromuscular medicine	1	1	0	1	0	N/A	N/A
- Spinal cord injury medicine	19	22	24	26	25	6	31.6%
- Pediatric rehabilitation medicine	30	31	42	38	26	-4	-13.3%
- Sports medicine	33	40	41	42	45	12	36.4%
Plastic surgery	214	202	202	199	194	-20	-9.3%
Plastic Surgery - integrated	1,009	1,060	1,107	1,160	1,204	195	19.3%
- Craniofacial surgery	7	5	5	6	5	-2	-28.6%
- Hand surgery	23	24	27	29	29	6	26.1%
Public health and general preventive medicine	350	346	195	175	169	-181	-51.7%
- Undersea and hyperbaric medicine	1	1	2	2	3	2	200.0%
- Medical toxicology	3	3	0	0	0	N/A	N/A
Aerospace medicine *			52	47	34	-18	-34.6%
Occupational and environmental medicine *			118	115	98	-20	-16.9%
Psychiatry	6,976	7,353	7,739	8,097	8,481	1,505	21.6%
- Addiction medicine (multidisciplinary)	129	169	159	196	216	87	67.4%
- Addiction psychiatry	86	89	92	91	79	-7	-8.1%
- Child and adolescent psychiatry	919	953	966	1,004	1,040	121	13.2%
- Forensic psychiatry	80	89	75	87	95	15	18.8%
- Geriatric psychiatry	44	58	58	52	40	-4	-9.1%
- Consultation-liaison psychiatry	82	89	92	92	116	34	41.5%
Radiation oncology	773	763	758	746	736	-37	-4.8%
Radiology-diagnostic	4,557	4,567	4,614	4,698	4,770	213	4.7%
- Abdominal radiology	46	49	50	54	56	10	21.7%
- Musculoskeletal radiology	40	38	38	41	36	-4	-10.0%
- Neuroendovascular intervention	2	3	5	8	8	6	300.0%
- Neuroradiology	272	292	300	314	309	37	13.6%
- Nuclear radiology	7	14	10	11	15	8	114.3%
- Pediatric radiology	51	51	54	53	58	7	13.7%
- Vascular and interventional radiology	0	0	0	0	0	N/A	N/A
Interventional radiology - independent *	184	205	177	150	162	-22	-12.0%
Interventional radiology - integrated	591	678	750	782	811	220	37.2%
Surgery	9,063	9,299	9,554	9,743	10,074	1,011	11.2%
- Complex general surgical oncology	120	123	127	133	136	16	13.3%
- Hand surgery	7	7	8	9	9	2	28.6%
- Pediatric surgery	86	86	88	87	89	3	3.5%
- Surgical critical care	299	332	341	349	374	75	25.1%
- Vascular surgery - independent	255	264	270	279	281	26	10.2%
Vascular surgery - integrated	332	361	381	407	458	126	38.0%
Thoracic surgery - independent	243	249	256	251	254	11	4.5%
- Congenital cardiac surgery	11	12	8	8	11	0	0.0%
Thoracic surgery - integrated	203	230	237	254	264	61	30.0%
Urology	1,768	1,794	1,834	1,883	1,934	166	9.4%
- Urogynecology and reconstructive pelvic surgery	37	38	42	38	40	3	8.1%
- Pediatric urology	18	28	32	35	39	21	116.7%
Transitional year	1,693	1,767	1,884	2,031	2,070	377	22.3%
Internal medicine/Pediatrics	1,510	1,529	1,539	1,556	1,555	45	3.0%
Health care administration, leadership, and management *					4	N/A	N/A

Notes: Pipeline specialties are highlighted. Asterisks (\*) indicate specialties and subspecialties added within the last five years. For these specialties and subspecialties, the number and percent change are calculated from the first year of having active residents.

Effective for the 2024-2025 Data Resource book, accredited programs will include medically related specialties. The trends in the 2024-2025 academic year and beyond will reflect these changes.

TABLE C.7

## Number of Active Part-Time Residents by Specialty and Subspecialty

Specialty	Total Residents	Number of Part-Time Residents	Percent of All Residents in Specialty	Percent of All Part-Time Residents
OVERALL	167,083	194	0.1%	100.0%
TOTAL PIPELINE	134,730	87	0.1%	44.8%
Allergy and immunology	342	0	0.0%	0.0%
Anesthesiology	7,802	4	0.1%	2.1%
- Adult cardiothoracic anesthesiology	263	0	0.0%	0.0%
- Critical care medicine	180	0	0.0%	0.0%
- Obstetric anesthesiology	43	0	0.0%	0.0%
- Pain medicine (multidisciplinary)	415	0	0.0%	0.0%
- Pediatric anesthesiology	149	0	0.0%	0.0%
- Pediatric cardiac anesthesiology	11	0	0.0%	0.0%
- Regional anesthesiology and acute pain medicine	81	0	0.0%	0.0%
Colon and rectal surgery	116	0	0.0%	0.0%
Dermatology	1,704	1	0.1%	0.5%
- Dermatopathology (multidisciplinary)	71	0	0.0%	0.0%
- Micrographic surgery and dermatologic oncology	97	0	0.0%	0.0%
- Pediatric dermatology	21	0	0.0%	0.0%
Emergency medicine	9,752	5	0.1%	2.6%
- Emergency medical services	104	3	2.9%	1.5%
- Medical toxicology	107	1	0.9%	0.5%
- Pediatric emergency medicine	152	0	0.0%	0.0%
- Sports medicine	21	0	0.0%	0.0%
- Undersea and hyperbaric medicine	15	0	0.0%	0.0%
Family medicine	15,687	6	0.0%	3.1%
- Clinical informatics	24	0	0.0%	0.0%
- Geriatric medicine	28	2	7.1%	1.0%
- Hospice and palliative medicine (multidisciplinary)	479	17	3.5%	8.8%
- Sports medicine	305	1	0.3%	0.5%
Internal medicine	34,086	19	0.1%	9.8%
- Adult congenital heart disease	31	0	0.0%	0.0%
- Advanced heart failure and transplant cardiology	92	0	0.0%	0.0%
- Cardiovascular disease	3,762	6	0.2%	3.1%
- Clinical cardiac electrophysiology	350	3	0.9%	1.5%
- Clinical informatics	79	0	0.0%	0.0%
- Critical care medicine	388	0	0.0%	0.0%
- Endocrinology, diabetes, and metabolism	773	2	0.3%	1.0%
- Gastroenterology	2,152	0	0.0%	0.0%
- Geriatric medicine	264	5	1.9%	2.6%
- Hematology and medical oncology	2,303	14	0.6%	7.2%
- Infectious disease	814	2	0.2%	1.0%
- Interventional cardiology	365	1	0.3%	0.5%
- Interventional pulmonology	34	0	0.0%	0.0%
- Medical oncology	5	0	0.0%	0.0%
- Nephrology	887	1	0.1%	0.5%
- Pulmonary disease	62	0	0.0%	0.0%
- Pulmonary disease and critical care medicine	2,445	2	0.1%	1.0%
- Rheumatology	591	0	0.0%	0.0%
- Sleep medicine (multidisciplinary)	239	17	7.1%	8.8%
- Transplant hepatology	43	0	0.0%	0.0%
Medical genetics and genomics	60	1	1.7%	0.5%
- Medical biochemical genetics	18	1	5.6%	0.5%
- Molecular genetic pathology (multidisciplinary)	63	0	0.0%	0.0%
Clinical biochemical genetics	8	0	0.0%	0.0%
Laboratory genetics and genomics	74	0	0.0%	0.0%
Neurological surgery	1,611	1	0.1%	0.5%
- Neuroendovascular intervention	2	0	0.0%	0.0%

**TABLE C.7 Continued****Number of Active Part-Time Residents by Specialty and Subspecialty**

Specialty	Total Residents	Number of Part-Time Residents	Percent of All Residents in Specialty	Percent of All Part-Time Residents
Neurology	3,900	0	0.0%	0.0%
- Clinical neurophysiology	159	1	0.6%	0.5%
- Epilepsy	172	0	0.0%	0.0%
- Neurocritical care (multidisciplinary)	195	1	0.5%	0.5%
- Neuroendovascular intervention	4	0	0.0%	0.0%
- Neurodevelopmental disabilities	36	0	0.0%	0.0%
- Neuromuscular medicine	86	0	0.0%	0.0%
- Vascular neurology	186	0	0.0%	0.0%
Child neurology	498	0	0.0%	0.0%
Nuclear medicine	77	0	0.0%	0.0%
Obstetrics and gynecology	6,178	4	0.1%	2.1%
- Urogynecology and reconstructive pelvic surgery	175	0	0.0%	0.0%
- Gynecologic oncology	260	0	0.0%	0.0%
- Maternal-fetal medicine	445	0	0.0%	0.0%
- Reproductive endocrinology and infertility	184	0	0.0%	0.0%
- Complex family planning	66	0	0.0%	0.0%
Ophthalmology	1,790	0	0.0%	0.0%
- Ophthalmic plastic and reconstructive surgery	5	0	0.0%	0.0%
Orthopaedic surgery	4,610	4	0.1%	2.1%
- Adult reconstructive orthopaedics	55	0	0.0%	0.0%
- Foot and ankle orthopaedics	15	0	0.0%	0.0%
- Hand surgery	163	0	0.0%	0.0%
- Musculoskeletal oncology	17	0	0.0%	0.0%
- Orthopaedic sports medicine	219	0	0.0%	0.0%
- Orthopaedic surgery of the spine	26	0	0.0%	0.0%
- Orthopaedic trauma	20	0	0.0%	0.0%
- Pediatric orthopaedics	34	0	0.0%	0.0%
Osteopathic neuromusculoskeletal medicine	93	2	2.2%	1.0%
Otolaryngology - head and neck surgery	1,883	1	0.1%	0.5%
- Neurotology	39	0	0.0%	0.0%
- Pediatric otolaryngology	34	0	0.0%	0.0%
Pathology-anatomic and clinical	2,400	0	0.0%	0.0%
- Blood banking/transfusion medicine	46	0	0.0%	0.0%
- Clinical informatics	20	0	0.0%	0.0%
- Chemical pathology	1	0	0.0%	0.0%
- Cytopathology	106	0	0.0%	0.0%
- Forensic pathology	57	0	0.0%	0.0%
- Hematopathology	125	0	0.0%	0.0%
- Medical microbiology	9	0	0.0%	0.0%
- Neuropathology	55	0	0.0%	0.0%
- Pediatric pathology	18	0	0.0%	0.0%
- Selective pathology	184	0	0.0%	0.0%
Pediatrics	9,845	13	0.1%	6.7%
- Adolescent medicine	98	0	0.0%	0.0%
- Child abuse pediatrics	49	0	0.0%	0.0%
- Clinical informatics	29	0	0.0%	0.0%
- Developmental-behavioral pediatrics	114	0	0.0%	0.0%
- Neonatal-perinatal medicine	847	1	0.1%	0.5%
- Pediatric cardiology	516	2	0.4%	1.0%
- Pediatric critical care medicine	633	1	0.2%	0.5%
- Pediatric emergency medicine	477	4	0.8%	2.1%
- Pediatric endocrinology	252	1	0.4%	0.5%
- Pediatric gastroenterology	348	0	0.0%	0.0%
- Pediatric hematology/oncology	479	0	0.0%	0.0%
- Pediatric infectious diseases	178	0	0.0%	0.0%

TABLE C.7 *Continued*

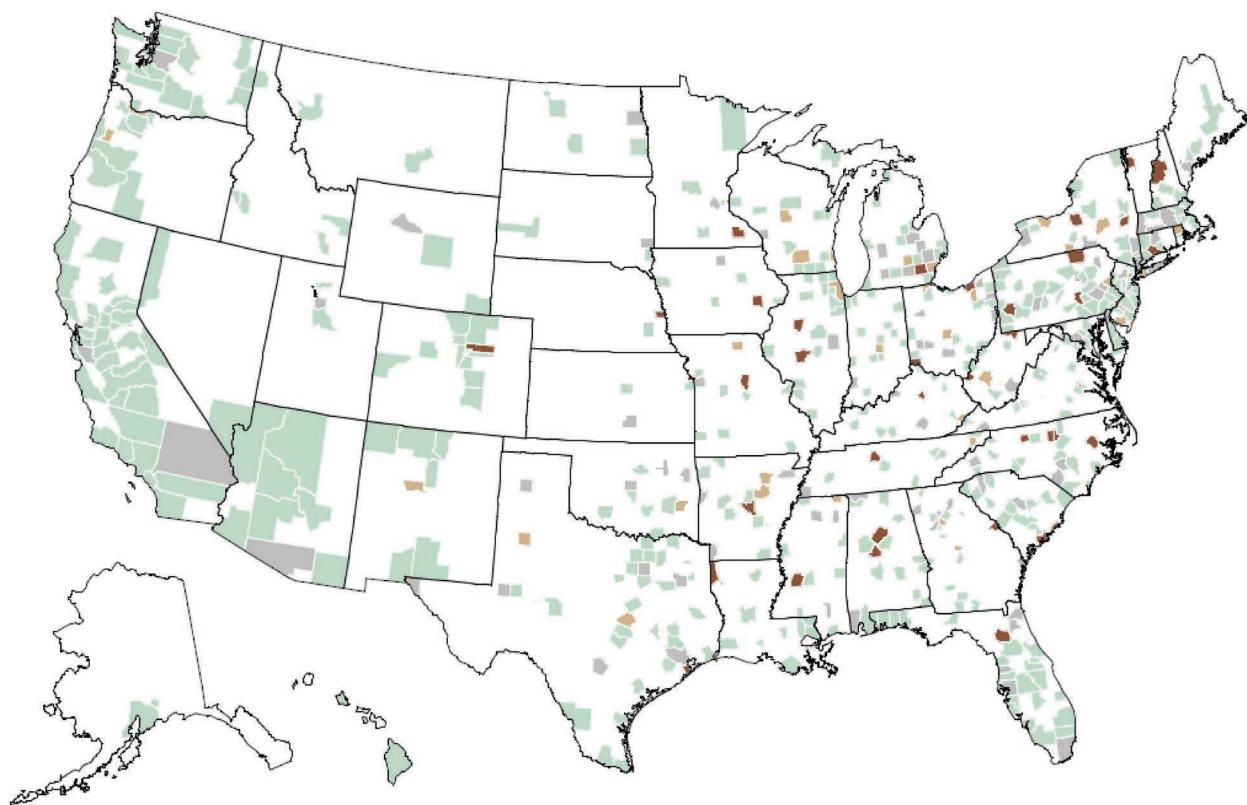
## Number of Active Part-Time Residents by Specialty and Subspecialty

Specialty	Total Residents	Number of Part-Time Residents	Percent of All Residents in Specialty	Percent of All Part-Time Residents
- Pediatric nephrology	139	3	2.2%	1.5%
- Pediatric pulmonology	194	0	0.0%	0.0%
- Pediatric rheumatology	101	0	0.0%	0.0%
- Sports medicine	28	0	0.0%	0.0%
- Pediatric transplant hepatology	15	0	0.0%	0.0%
- Pediatric hospital medicine	236	0	0.0%	0.0%
Physical medicine and rehabilitation	1,810	1	0.1%	0.5%
- Brain injury medicine	28	0	0.0%	0.0%
- Neuromuscular medicine	0	0	0.0%	0.0%
- Spinal cord injury medicine	25	0	0.0%	0.0%
- Pediatric rehabilitation medicine	26	0	0.0%	0.0%
- Sports medicine	45	0	0.0%	0.0%
Plastic surgery	194	0	0.0%	0.0%
Plastic Surgery - integrated	5	0	0.0%	0.0%
- Craniofacial surgery	29	0	0.0%	0.0%
- Hand surgery	1,204	1	0.1%	0.5%
Public health and general preventive medicine	169	0	0.0%	0.0%
- Undersea and hyperbaric medicine	3	0	0.0%	0.0%
Aerospace medicine	34	0	0.0%	0.0%
Occupational and environmental medicine	98	0	0.0%	0.0%
Psychiatry	8,481	8	0.1%	4.1%
- Addiction medicine (multidisciplinary)	216	3	1.4%	1.5%
- Addiction psychiatry	79	1	1.3%	0.5%
- Child and adolescent psychiatry	1,040	6	0.6%	3.1%
- Forensic psychiatry	95	1	1.1%	0.5%
- Geriatric psychiatry	40	2	5.0%	1.0%
- Consultation-liaison psychiatry	116	1	0.9%	0.5%
Radiation oncology	736	0	0.0%	0.0%
Radiology-diagnostic	4,770	4	0.1%	2.1%
- Abdominal radiology	56	0	0.0%	0.0%
- Musculoskeletal radiology	36	0	0.0%	0.0%
- Neuroendovascular intervention	8	0	0.0%	0.0%
- Neuroradiology	309	1	0.3%	0.5%
- Nuclear radiology	15	0	0.0%	0.0%
- Pediatric radiology	58	0	0.0%	0.0%
Interventional radiology - independent	162	1	0.6%	0.5%
Interventional radiology - integrated	811	0	0.0%	0.0%
Surgery	10,074	9	0.1%	4.6%
- Complex general surgical oncology	136	0	0.0%	0.0%
- Hand surgery	9	0	0.0%	0.0%
- Pediatric surgery	89	0	0.0%	0.0%
- Surgical critical care	374	0	0.0%	0.0%
- Vascular surgery - independent	281	0	0.0%	0.0%
Vascular surgery - integrated	458	0	0.0%	0.0%
Thoracic surgery - independent	254	0	0.0%	0.0%
- Congenital cardiac surgery	11	0	0.0%	0.0%
Thoracic surgery - integrated	264	0	0.0%	0.0%
Urology	1,934	0	0.0%	0.0%
- Urogynecology and reconstructive pelvic surgery	40	0	0.0%	0.0%
- Pediatric urology	39	0	0.0%	0.0%
Transitional year	2,070	0	0.0%	0.0%
Internal medicine/Pediatrics	1,555	2	0.1%	1.0%
Health care administration, leadership, and management	4	0	0.0%	0.0%

Note: Pipeline specialties are highlighted.

FIGURE C.8

Geographic Distribution of Active Residents



Concentration of Residents per 10,000 County Population



Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE C.9

## Number of Active Residents and Active Resident Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Residents	Percent of All Residents	Residents per 100,000 Pop
OVERALL	-	343,314,283	167,083	100.0%	48.67
Alabama	AL	5,157,699	2,037	1.2%	39.49
Alaska	AK	740,133	40	0.0%	5.40
Arizona	AZ	7,582,384	2,480	1.5%	32.71
Arkansas	AR	3,088,254	1,281	0.8%	41.48
California	CA	39,431,263	15,798	9.5%	40.06
Colorado	CO	5,957,493	1,802	1.1%	30.25
Connecticut	CT	3,675,069	2,750	1.6%	74.83
Delaware	DE	1,051,917	488	0.3%	46.39
District of Columbia	DC	702,250	1,806	1.1%	257.17
Florida	FL	23,372,215	9,400	5.6%	40.22
Georgia	GA	11,180,878	3,573	2.1%	31.96
Hawaii	HI	1,446,146	485	0.3%	33.54
Idaho	ID	2,001,619	236	0.1%	11.79
Illinois	IL	12,710,158	7,397	4.4%	58.20
Indiana	IN	6,924,275	1,809	1.1%	26.13
Iowa	IA	3,241,488	1,096	0.7%	33.81
Kansas	KS	2,970,606	1,010	0.6%	34.00
Kentucky	KY	4,588,372	1,677	1.0%	36.55
Louisiana	LA	4,597,740	2,532	1.5%	55.07
Maine	ME	1,405,012	413	0.2%	29.39
Maryland	MD	6,263,220	3,599	2.2%	57.46
Massachusetts	MA	7,136,171	6,332	3.8%	88.73
Michigan	MI	10,140,459	7,847	4.7%	77.38
Minnesota	MN	5,793,151	2,508	1.5%	43.29
Mississippi	MS	2,943,045	1,081	0.6%	36.73
Missouri	MO	6,245,466	3,425	2.0%	54.84
Montana	MT	1,137,233	87	0.1%	7.65
Nebraska	NE	2,005,465	983	0.6%	49.02
Nevada	NV	3,267,467	1,056	0.6%	32.32
New Hampshire	NH	1,409,032	548	0.3%	38.89
New Jersey	NJ	9,500,851	4,906	2.9%	51.64
New Mexico	NM	2,130,256	828	0.5%	38.87
New York	NY	19,867,248	20,376	12.2%	102.56
North Carolina	NC	11,046,024	4,475	2.7%	40.51
North Dakota	ND	796,568	199	0.1%	24.98
Ohio	OH	11,883,304	8,123	4.9%	68.36
Oklahoma	OK	4,095,393	1,372	0.8%	33.50
Oregon	OR	4,272,371	1,226	0.7%	28.70
Pennsylvania	PA	13,078,751	10,399	6.2%	79.51
Puerto Rico	PR	3,203,295	1,024	0.6%	31.97
Rhode Island	RI	1,112,308	967	0.6%	86.94
South Carolina	SC	5,478,831	2,149	1.3%	39.22
South Dakota	SD	924,669	176	0.1%	19.03
Tennessee	TN	7,227,750	2,960	1.8%	40.95
Texas	TX	31,290,831	11,743	7.0%	37.53
Utah	UT	3,503,613	996	0.6%	28.43
Vermont	VT	648,493	343	0.2%	52.89
Virginia	VA	8,811,195	3,314	2.0%	37.61
Washington	WA	7,958,180	2,469	1.5%	31.02
West Virginia	WV	1,769,979	1,129	0.7%	63.79
Wisconsin	WI	5,960,975	2,288	1.4%	38.38
Wyoming	WY	587,618	45	0.0%	7.66

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE C.10

## Number of Active Specialty Residents and Active Specialty Resident Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Specialty Residents	Percent of All Specialty Residents	Specialty Residents per 100,000 Pop
OVERALL	-	343,314,283	137,432	100.0%	40.03
Alabama	AL	5,157,699	1,736	1.3%	33.66
Alaska	AK	740,133	37	0.0%	5.00
Arizona	AZ	7,582,384	2,075	1.5%	27.37
Arkansas	AR	3,088,354	1,136	0.8%	36.78
California	CA	39,431,263	12,823	9.3%	32.52
Colorado	CO	5,957,493	1,410	1.0%	23.67
Connecticut	CT	3,675,069	2,230	1.6%	60.68
Delaware	DE	1,051,917	429	0.3%	40.78
District of Columbia	DC	702,250	1,427	1.0%	203.20
Florida	FL	23,372,215	7,956	5.8%	34.04
Georgia	GA	11,180,878	3,014	2.2%	26.96
Hawaii	HI	1,446,146	446	0.3%	30.84
Idaho	ID	2,001,619	234	0.2%	11.69
Illinois	IL	12,710,158	6,167	4.5%	48.52
Indiana	IN	6,924,275	1,542	1.1%	22.27
Iowa	IA	3,241,488	907	0.7%	27.98
Kansas	KS	2,970,606	858	0.6%	28.88
Kentucky	KY	4,588,372	1,376	1.0%	29.99
Louisiana	LA	4,597,740	2,165	1.6%	47.09
Maine	ME	1,405,012	368	0.3%	26.19
Maryland	MD	6,263,220	2,788	2.0%	44.51
Massachusetts	MA	7,136,171	4,783	3.5%	67.02
Michigan	MI	10,140,459	6,717	4.9%	66.24
Minnesota	MN	5,793,151	1,924	1.4%	33.21
Mississippi	MS	2,943,045	961	0.7%	32.65
Missouri	MO	6,245,466	2,713	2.0%	43.44
Montana	MT	1,137,233	87	0.1%	7.65
Nebraska	NE	2,005,465	787	0.6%	39.24
Nevada	NV	3,267,467	963	0.7%	29.47
New Hampshire	NH	1,409,032	457	0.3%	32.43
New Jersey	NJ	9,500,851	4,279	3.1%	45.04
New Mexico	NM	2,130,256	683	0.5%	32.06
New York	NY	19,867,248	16,665	12.1%	83.88
North Carolina	NC	11,046,024	3,584	2.6%	32.45
North Dakota	ND	796,568	192	0.1%	24.10
Ohio	OH	11,883,304	6,590	4.8%	55.46
Oklahoma	OK	4,095,393	1,221	0.9%	29.81
Oregon	OR	4,272,371	1,009	0.7%	23.62
Pennsylvania	PA	13,078,751	8,354	6.1%	63.87
Puerto Rico	PR	3,203,295	885	0.6%	27.63
Rhode Island	RI	1,112,308	784	0.6%	70.48
South Carolina	SC	5,478,831	1,866	1.4%	34.06
South Dakota	SD	924,669	162	0.1%	17.52
Tennessee	TN	7,227,750	2,374	1.7%	32.85
Texas	TX	31,290,831	9,500	6.9%	30.36
Utah	UT	3,503,613	764	0.6%	21.81
Vermont	VT	648,493	280	0.2%	43.18
Virginia	VA	8,811,195	2,821	2.1%	32.02
Washington	WA	7,958,180	2,055	1.5%	25.82
West Virginia	WV	1,769,979	949	0.7%	53.62
Wisconsin	WI	5,960,975	1,854	1.3%	31.10
Wyoming	WY	587,618	45	0.0%	7.66

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE C.11

## Number of Active Subspecialty Residents and Active Subspecialty Resident Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Subspecialty Residents	Percent of All Subspecialty Residents	Subspecialty Residents per 100,000 Pop
OVERALL	-	343,314,283	29,651	100.0%	8.64
Alabama	AL	5,157,699	301	1.0%	5.84
Alaska	AK	740,133	3	0.0%	0.41
Arizona	AZ	7,582,384	405	1.4%	5.34
Arkansas	AR	3,088,354	145	0.5%	4.70
California	CA	39,431,263	2,975	10.0%	7.54
Colorado	CO	5,957,493	392	1.3%	6.58
Connecticut	CT	3,675,069	520	1.8%	14.15
Delaware	DE	1,051,917	59	0.2%	5.61
District of Columbia	DC	702,250	379	1.3%	53.97
Florida	FL	23,372,215	1,444	4.9%	6.18
Georgia	GA	11,180,878	559	1.9%	5.00
Hawaii	HI	1,446,146	39	0.1%	2.70
Idaho	ID	2,001,619	2	0.0%	0.10
Illinois	IL	12,710,158	1,230	4.1%	9.68
Indiana	IN	6,924,275	267	0.9%	3.86
Iowa	IA	3,241,488	189	0.6%	5.83
Kansas	KS	2,970,606	152	0.5%	5.12
Kentucky	KY	4,588,372	301	1.0%	6.56
Louisiana	LA	4,597,740	367	1.2%	7.98
Maine	ME	1,405,012	45	0.2%	3.20
Maryland	MD	6,263,220	811	2.7%	12.95
Massachusetts	MA	7,136,171	1,549	5.2%	21.71
Michigan	MI	10,140,459	1,130	3.8%	11.14
Minnesota	MN	5,793,151	584	2.0%	10.08
Mississippi	MS	2,943,045	120	0.4%	4.08
Missouri	MO	6,245,466	712	2.4%	11.40
Montana	MT	1,137,233	0	0.0%	0.00
Nebraska	NE	2,005,465	196	0.7%	9.77
Nevada	NV	3,267,467	93	0.3%	2.85
New Hampshire	NH	1,409,032	91	0.3%	6.46
New Jersey	NJ	9,500,851	627	2.1%	6.60
New Mexico	NM	2,130,256	145	0.5%	6.81
New York	NY	19,867,248	3,711	12.5%	18.68
North Carolina	NC	11,046,024	891	3.0%	8.07
North Dakota	ND	796,568	7	0.0%	0.88
Ohio	OH	11,883,304	1,533	5.2%	12.90
Oklahoma	OK	4,095,393	151	0.5%	3.69
Oregon	OR	4,272,371	217	0.7%	5.08
Pennsylvania	PA	13,078,751	2,045	6.9%	15.64
Puerto Rico	PR	3,203,295	139	0.5%	4.34
Rhode Island	RI	1,112,308	183	0.6%	16.45
South Carolina	SC	5,478,831	283	1.0%	5.17
South Dakota	SD	924,669	14	0.0%	1.51
Tennessee	TN	7,227,750	586	2.0%	8.11
Texas	TX	31,290,831	2,243	7.6%	7.17
Utah	UT	3,503,613	232	0.8%	6.62
Vermont	VT	648,493	63	0.2%	9.71
Virginia	VA	8,811,195	493	1.7%	5.60
Washington	WA	7,958,180	414	1.4%	5.20
West Virginia	WV	1,769,979	180	0.6%	10.17
Wisconsin	WI	5,960,975	434	1.5%	7.28
Wyoming	WY	587,618	0	0.0%	0.00

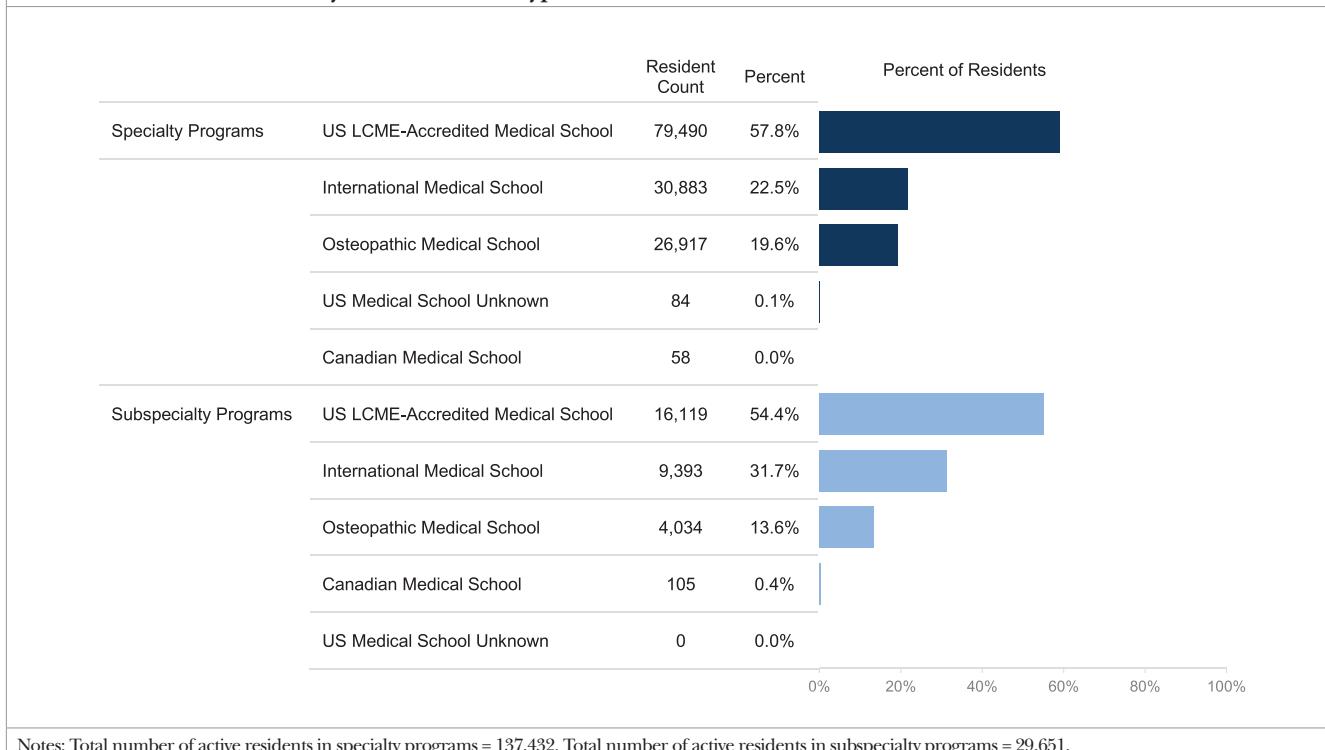
Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE C.12

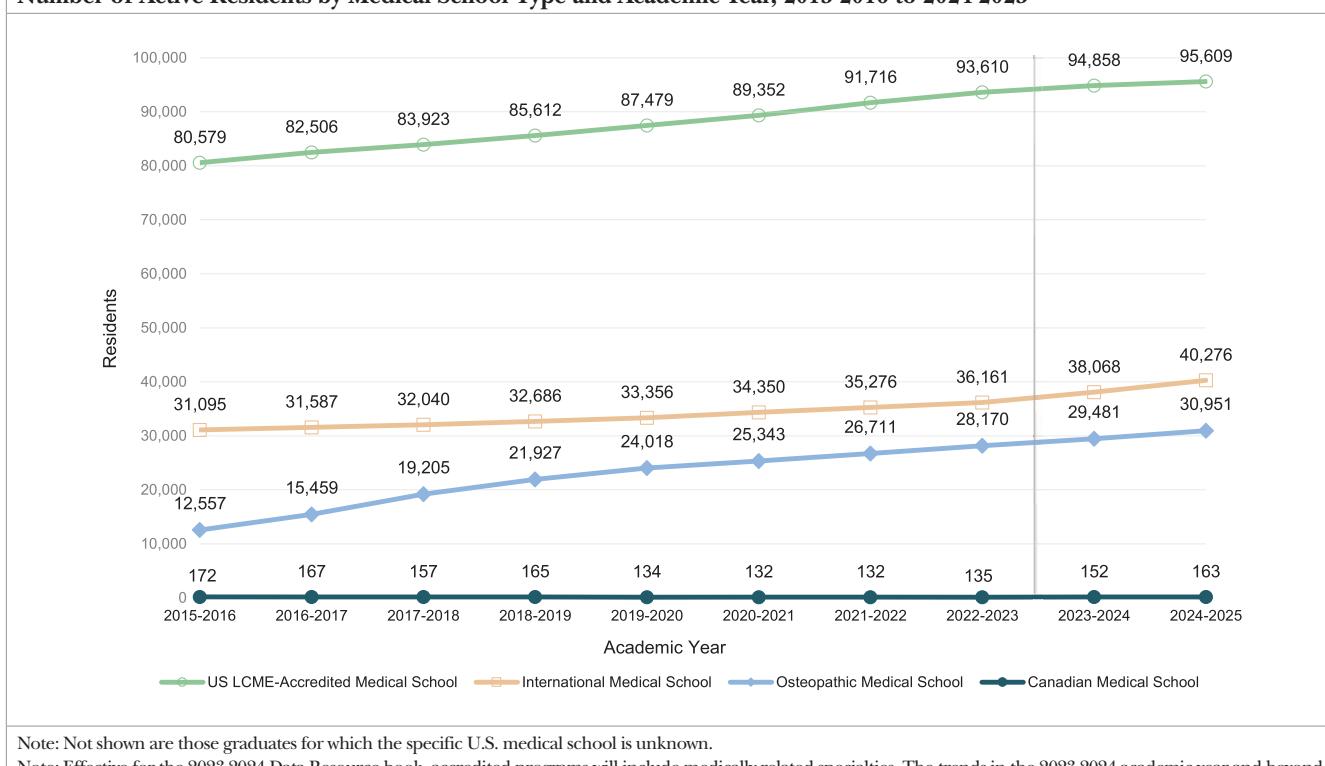
## Number of Active Pipeline Residents and Active Pipeline Resident Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Pipeline Residents	Percent of All Pipeline Residents	Pipeline Residents per 100,000 Pop
OVERALL	-	343,314,283	134,730	100.0%	39.24
Alabama	AL	5,157,699	1,699	1.3%	32.94
Alaska	AK	740,133	37	0.0%	5.00
Arizona	AZ	7,582,384	2,013	1.5%	26.55
Arkansas	AR	3,088,354	1,108	0.8%	35.88
California	CA	39,431,263	12,569	9.3%	31.88
Colorado	CO	5,957,493	1,382	1.0%	23.20
Connecticut	CT	3,675,069	2,220	1.6%	60.41
Delaware	DE	1,051,917	422	0.3%	40.12
District of Columbia	DC	702,250	1,429	1.1%	203.49
Florida	FL	23,372,215	7,682	5.7%	32.87
Georgia	GA	11,180,878	2,895	2.1%	25.89
Hawaii	HI	1,446,146	430	0.3%	29.73
Idaho	ID	2,001,619	234	0.2%	11.69
Illinois	IL	12,710,158	6,073	4.5%	47.78
Indiana	IN	6,924,275	1,480	1.1%	21.37
Iowa	IA	3,241,488	895	0.7%	27.61
Kansas	KS	2,970,606	852	0.6%	28.68
Kentucky	KY	4,588,372	1,361	1.0%	29.66
Louisiana	LA	4,597,740	2,148	1.6%	46.72
Maine	ME	1,405,012	368	0.3%	26.19
Maryland	MD	6,263,220	2,711	2.0%	43.28
Massachusetts	MA	7,136,171	4,697	3.5%	65.82
Michigan	MI	10,140,459	6,563	4.9%	64.72
Minnesota	MN	5,793,151	1,879	1.4%	32.43
Mississippi	MS	2,943,045	930	0.7%	31.60
Missouri	MO	6,245,466	2,683	2.0%	42.96
Montana	MT	1,137,233	87	0.1%	7.65
Nebraska	NE	2,005,465	781	0.6%	38.94
Nevada	NV	3,267,467	924	0.7%	28.28
New Hampshire	NH	1,409,032	455	0.3%	32.29
New Jersey	NJ	9,500,851	4,184	3.1%	44.04
New Mexico	NM	2,130,256	675	0.5%	31.69
New York	NY	19,867,248	16,426	12.2%	82.68
North Carolina	NC	11,046,024	3,511	2.6%	31.79
North Dakota	ND	796,568	187	0.1%	23.48
Ohio	OH	11,883,304	6,487	4.8%	54.59
Oklahoma	OK	4,095,393	1,215	0.9%	29.67
Oregon	OR	4,272,371	999	0.7%	23.38
Pennsylvania	PA	13,078,751	8,209	6.1%	62.77
Puerto Rico	PR	3,203,295	845	0.6%	26.38
Rhode Island	RI	1,112,308	781	0.6%	70.21
South Carolina	SC	5,478,831	1,803	1.3%	32.91
South Dakota	SD	924,669	156	0.1%	16.87
Tennessee	TN	7,227,750	2,337	1.7%	32.33
Texas	TX	31,290,831	9,351	6.9%	29.88
Utah	UT	3,503,613	744	0.6%	21.24
Vermont	VT	648,493	280	0.2%	43.18
Virginia	VA	8,811,195	2,745	2.0%	31.15
Washington	WA	7,958,180	2,007	1.5%	25.22
West Virginia	WV	1,769,979	932	0.7%	52.66
Wisconsin	WI	5,960,975	1,804	1.3%	30.26
Wyoming	WY	587,618	45	0.0%	7.66

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

**FIGURE C.13****Number of Active Residents by Medical School Type**

Notes: Total number of active residents in specialty programs = 137,432. Total number of active residents in subspecialty programs = 29,651.

**FIGURE C.14****Number of Active Residents by Medical School Type and Academic Year, 2015-2016 to 2024-2025**

Note: Not shown are those graduates for which the specific U.S. medical school is unknown.

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

Abbreviations: LCME, Liaison Committee on Medical Education.

TABLE C.15

## Number of Active Residents by Specialty and Subspecialty and Medical School Type

Specialty	Total Residents	US LCME - Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
OVERALL	167,083	95,609	57.2%	40,276	24.1%	30,951	18.5%	163	0.1%	84	0.1%
TOTAL PIPELINE	134,730	77,789	57.7%	30,524	22.7%	26,358	19.6%	50	0.0%	9	0.0%
Allergy and immunology	342	236	69.0%	49	14.3%	57	16.7%	0	0.0%	0	0.0%
Anesthesiology	7,802	5,745	73.6%	659	8.4%	1,394	17.9%	4	0.1%	0	0.0%
- Adult cardiothoracic anesthesiology	263	164	62.4%	48	18.3%	47	17.9%	4	1.5%	0	0.0%
- Critical care medicine	180	126	70.0%	30	16.7%	24	13.3%	0	0.0%	0	0.0%
- Obstetric anesthesiology	43	29	67.4%	10	23.3%	3	7.0%	1	2.3%	0	0.0%
- Pain medicine (multidisciplinary)	415	230	55.4%	72	17.3%	112	27.0%	1	0.2%	0	0.0%
- Pediatric anesthesiology	149	93	62.4%	30	20.1%	26	17.4%	0	0.0%	0	0.0%
- Pediatric cardiac anesthesiology	11	9	81.8%	1	9.1%	0	0.0%	1	9.1%	0	0.0%
- Regional anesthesiology and acute pain medicine	81	58	71.6%	14	17.3%	9	11.1%	0	0.0%	0	0.0%
Colon and rectal surgery	116	87	75.0%	12	10.3%	10	8.6%	7	6.0%	0	0.0%
Dermatology	1,704	1,482	87.0%	43	2.5%	179	10.5%	0	0.0%	0	0.0%
- Dermatopathology (multidisciplinary)	71	55	77.5%	12	16.9%	2	2.8%	2	2.8%	0	0.0%
- Micrographic surgery and dermatologic oncology	97	80	82.5%	3	3.1%	12	12.4%	2	2.1%	0	0.0%
- Pediatric dermatology	21	17	81.0%	4	19.0%	0	0.0%	0	0.0%	0	0.0%
Emergency medicine	9,752	5,343	54.8%	1,223	12.5%	3,183	32.6%	1	0.0%	2	0.0%
- Emergency medical services	104	58	55.8%	7	6.7%	39	37.5%	0	0.0%	0	0.0%
- Medical toxicology	107	82	76.6%	7	6.5%	17	15.9%	1	0.9%	0	0.0%
- Pediatric emergency medicine	152	89	58.6%	26	17.1%	37	24.3%	0	0.0%	0	0.0%
- Sports medicine	21	11	52.4%	4	19.0%	6	28.6%	0	0.0%	0	0.0%
- Undersea and hyperbaric medicine	15	9	60.0%	2	13.3%	3	20.0%	1	6.7%	0	0.0%
Family medicine	15,687	5,621	35.8%	4,741	30.2%	5,317	33.9%	5	0.0%	3	0.0%
- Clinical informatics	24	19	79.2%	4	16.7%	1	4.2%	0	0.0%	0	0.0%
- Geriatric medicine	28	11	39.3%	10	35.7%	6	21.4%	1	3.6%	0	0.0%
- Hospice and palliative medicine (multidisciplinary)	479	284	59.3%	101	21.1%	94	19.6%	0	0.0%	0	0.0%
- Sports medicine	305	130	42.6%	50	16.4%	125	41.0%	0	0.0%	0	0.0%
Internal medicine	34,086	13,979	41.0%	14,048	41.2%	6,048	17.7%	9	0.0%	2	0.0%
- Adult congenital heart disease	31	23	74.2%	6	19.4%	1	3.2%	1	3.2%	0	0.0%
- Advanced heart failure and transplant cardiology	92	45	48.9%	38	41.3%	7	7.6%	2	2.2%	0	0.0%
- Cardiovascular disease	3,762	1,867	49.6%	1,405	37.3%	488	13.0%	2	0.1%	0	0.0%
- Clinical cardiac electrophysiology	350	189	54.0%	126	36.0%	34	9.7%	1	0.3%	0	0.0%
- Clinical informatics	79	45	57.0%	26	32.9%	8	10.1%	0	0.0%	0	0.0%
- Critical care medicine	388	128	33.0%	183	47.2%	75	19.3%	2	0.5%	0	0.0%
- Endocrinology, diabetes, and metabolism	773	236	30.5%	435	56.3%	102	13.2%	0	0.0%	0	0.0%
- Gastroenterology	2,152	1,247	57.9%	623	28.9%	282	13.1%	0	0.0%	0	0.0%
- Geriatric medicine	264	83	31.4%	148	56.1%	32	12.1%	1	0.4%	0	0.0%
- Hematology and medical oncology	2,303	1,257	54.6%	844	36.6%	196	8.5%	6	0.3%	0	0.0%
- Infectious disease	814	364	44.7%	332	40.8%	117	14.4%	1	0.1%	0	0.0%
- Interventional cardiology	365	149	40.8%	183	50.1%	32	8.8%	1	0.3%	0	0.0%
- Interventional pulmonology	34	10	29.4%	20	58.8%	4	11.8%	0	0.0%	0	0.0%
- Medical oncology	5	0	0.0%	4	80.0%	1	20.0%	0	0.0%	0	0.0%
- Nephrology	887	209	23.6%	549	61.9%	129	14.5%	0	0.0%	0	0.0%
- Pulmonary disease	62	6	9.7%	46	74.2%	10	16.1%	0	0.0%	0	0.0%
- Pulmonary disease and critical care medicine	2,445	1,116	45.6%	938	38.4%	389	15.9%	2	0.1%	0	0.0%
- Rheumatology	591	268	45.3%	239	40.4%	84	14.2%	0	0.0%	0	0.0%
- Sleep medicine (multidisciplinary)	239	94	39.3%	104	43.5%	38	15.9%	3	1.3%	0	0.0%
- Transplant hepatology	43	31	72.1%	9	20.9%	1	2.3%	2	4.7%	0	0.0%
Medical genetics and genomics	60	22	36.7%	30	50.0%	8	13.3%	0	0.0%	0	0.0%
- Medical biochemical genetics	18	12	66.7%	4	22.2%	2	11.1%	0	0.0%	0	0.0%
- Molecular genetic pathology (multidisciplinary)	63	23	36.5%	38	60.3%	1	1.6%	1	1.6%	0	0.0%
Clinical biochemical genetics	8	0	0.0%	3	37.5%	0	0.0%	0	0.0%	5	62.5%
Laboratory genetics and genomics	74	2	2.7%	2	2.7%	0	0.0%	0	0.0%	70	94.6%
Neurological surgery	1,611	1,453	90.2%	122	7.6%	36	2.2%	0	0.0%	0	0.0%
- Neuroendovascular intervention	2	1	50.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%

TABLE C.15 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Medical School Type

Specialty	Total Residents	US LCME - Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
Neurology	3,900	2,145	55.0%	1,142	29.3%	610	15.6%	2	0.1%	1	0.0%
- Clinical neurophysiology	159	76	47.8%	56	35.2%	23	14.5%	4	2.5%	0	0.0%
- Epilepsy	172	85	49.4%	60	34.9%	23	13.4%	4	2.3%	0	0.0%
- Neurocritical care (multidisciplinary)	195	77	39.5%	90	46.2%	28	14.4%	0	0.0%	0	0.0%
- Neuroendovascular intervention	4	1	25.0%	3	75.0%	0	0.0%	0	0.0%	0	0.0%
- Neurodevelopmental disabilities	36	22	61.1%	8	22.2%	6	16.7%	0	0.0%	0	0.0%
- Neuromuscular medicine	86	46	53.5%	21	24.4%	14	16.3%	5	5.8%	0	0.0%
- Vascular neurology	186	79	42.5%	79	42.5%	27	14.5%	1	0.5%	0	0.0%
Child neurology	498	329	66.1%	105	21.1%	62	12.4%	2	0.4%	0	0.0%
Nuclear medicine	77	15	19.5%	55	71.4%	6	7.8%	1	1.3%	0	0.0%
Obstetrics and gynecology	6,178	4,689	75.9%	395	6.4%	1,093	17.7%	1	0.0%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	175	155	88.6%	6	3.4%	14	8.0%	0	0.0%	0	0.0%
- Gynecologic oncology	260	239	91.9%	10	3.8%	11	4.2%	0	0.0%	0	0.0%
- Maternal-fetal medicine	445	380	85.4%	31	7.0%	33	7.4%	1	0.2%	0	0.0%
- Reproductive endocrinology and infertility	184	157	85.3%	21	11.4%	6	3.3%	0	0.0%	0	0.0%
- Complex family planning	66	62	93.9%	2	3.0%	2	3.0%	0	0.0%	0	0.0%
Ophthalmology	1,790	1,639	91.6%	62	3.5%	88	4.9%	1	0.1%	0	0.0%
- Ophthalmic plastic and reconstructive surgery	5	4	80.0%	1	20.0%	0	0.0%	0	0.0%	0	0.0%
Orthopaedic surgery	4,610	3,923	85.1%	63	1.4%	622	13.5%	2	0.0%	0	0.0%
- Adult reconstructive orthopaedics	55	45	81.8%	4	7.3%	3	5.5%	3	5.5%	0	0.0%
- Foot and ankle orthopaedics	15	9	60.0%	5	33.3%	1	6.7%	0	0.0%	0	0.0%
- Hand surgery	163	142	87.1%	2	1.2%	15	9.2%	4	2.5%	0	0.0%
- Musculoskeletal oncology	17	8	47.1%	7	41.2%	1	5.9%	1	5.9%	0	0.0%
- Orthopaedic sports medicine	219	168	76.7%	18	8.2%	31	14.2%	2	0.9%	0	0.0%
- Orthopaedic surgery of the spine	26	20	76.9%	3	11.5%	0	0.0%	3	11.5%	0	0.0%
- Orthopaedic trauma	20	18	90.0%	1	5.0%	1	5.0%	0	0.0%	0	0.0%
- Pediatric orthopaedics	34	23	67.6%	9	26.5%	1	2.9%	1	2.9%	0	0.0%
Osteopathic neuromusculoskeletal medicine	93	3	3.2%	2	2.2%	88	94.6%	0	0.0%	0	0.0%
Otolaryngology - head and neck surgery	1,883	1,737	92.2%	30	1.6%	116	6.2%	0	0.0%	0	0.0%
- Neurotology	39	36	92.3%	1	2.6%	1	2.6%	1	2.6%	0	0.0%
- Pediatric otolaryngology	34	24	70.6%	7	20.6%	2	5.9%	1	2.9%	0	0.0%
Pathology-anatomic and clinical	2,400	1,014	42.2%	1,053	43.9%	333	13.9%	0	0.0%	0	0.0%
- Blood banking/transfusion medicine	46	26	56.5%	17	37.0%	2	4.3%	1	2.2%	0	0.0%
- Clinical informatics	20	13	65.0%	5	25.0%	2	10.0%	0	0.0%	0	0.0%
- Chemical pathology	1	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%
- Cytopathology	106	36	34.0%	61	57.5%	9	8.5%	0	0.0%	0	0.0%
- Forensic pathology	57	24	42.1%	15	26.3%	18	31.6%	0	0.0%	0	0.0%
- Hematopathology	125	49	39.2%	63	50.4%	13	10.4%	0	0.0%	0	0.0%
- Medical microbiology	9	4	44.4%	3	33.3%	2	22.2%	0	0.0%	0	0.0%
- Neuropathology	55	27	49.1%	26	47.3%	2	3.6%	0	0.0%	0	0.0%
- Pediatric pathology	18	6	33.3%	10	55.6%	2	11.1%	0	0.0%	0	0.0%
- Selective pathology	184	36	19.6%	122	66.3%	20	10.9%	6	3.3%	0	0.0%
Pediatrics	9,845	5,462	55.5%	2,401	24.4%	1,978	20.1%	4	0.0%	0	0.0%
- Adolescent medicine	98	75	76.5%	11	11.2%	12	12.2%	0	0.0%	0	0.0%
- Child abuse pediatrics	49	32	65.3%	4	8.2%	13	26.5%	0	0.0%	0	0.0%
- Clinical informatics	29	23	79.3%	1	3.4%	5	17.2%	0	0.0%	0	0.0%
- Developmental-behavioral pediatrics	114	60	52.6%	35	30.7%	19	16.7%	0	0.0%	0	0.0%
- Neonatal-perinatal medicine	847	464	54.8%	237	28.0%	146	17.2%	0	0.0%	0	0.0%
- Pediatric cardiology	516	335	64.9%	128	24.8%	53	10.3%	0	0.0%	0	0.0%
- Pediatric critical care medicine	633	428	67.6%	119	18.8%	85	13.4%	1	0.2%	0	0.0%
- Pediatric emergency medicine	477	310	65.0%	91	19.1%	75	15.7%	1	0.2%	0	0.0%
- Pediatric endocrinology	252	124	49.2%	92	36.5%	35	13.9%	1	0.4%	0	0.0%
- Pediatric gastroenterology	348	184	52.9%	112	32.2%	52	14.9%	0	0.0%	0	0.0%
- Pediatric hematology/oncology	479	293	61.2%	120	25.1%	66	13.8%	0	0.0%	0	0.0%
- Pediatric infectious diseases	178	105	59.0%	64	36.0%	9	5.1%	0	0.0%	0	0.0%

TABLE C.15 *Continued*

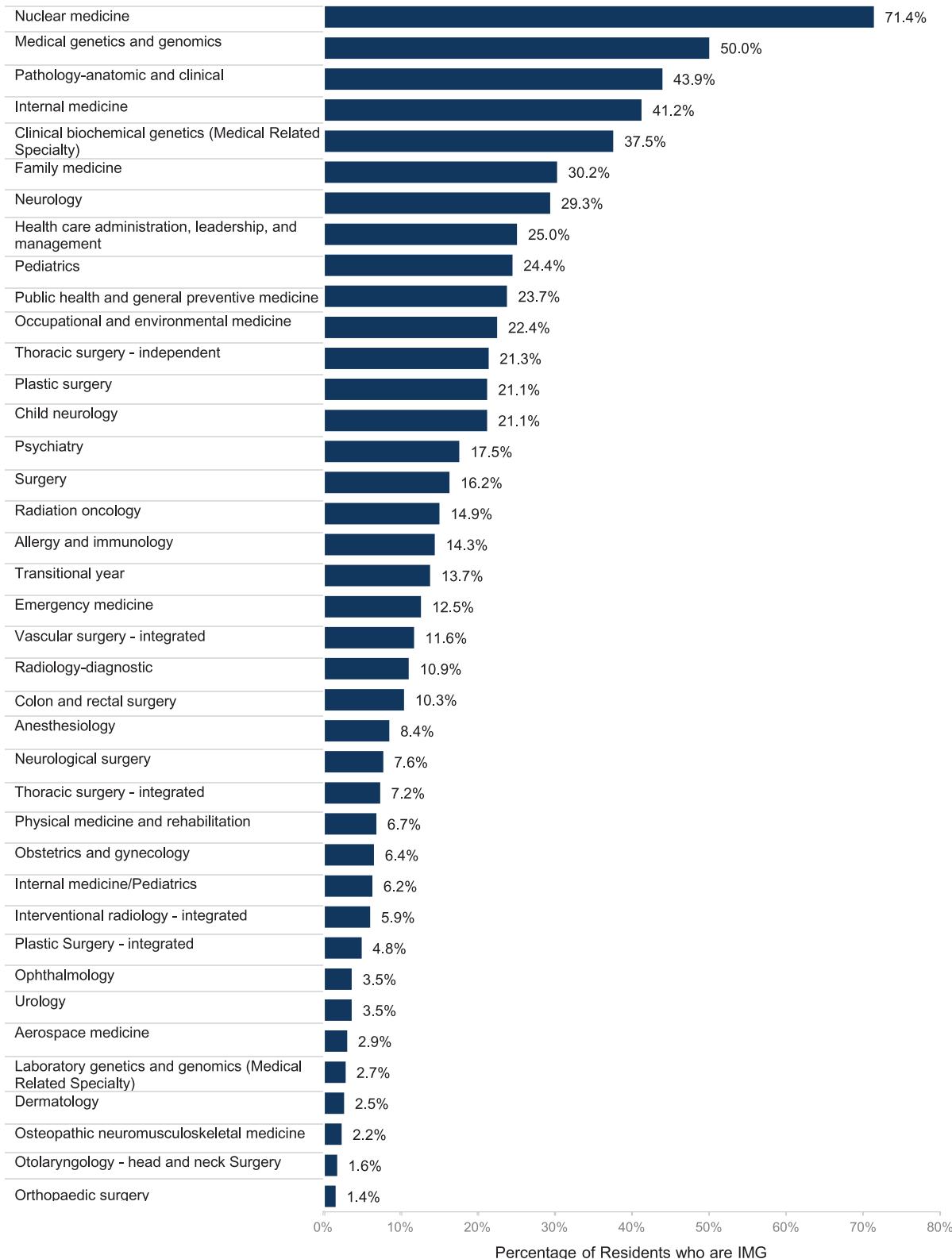
## Number of Active Residents by Specialty and Subspecialty and Medical School Type

Specialty	Total Residents	US LCME - Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
- Pediatric nephrology	139	83	59.7%	38	27.3%	18	12.9%	0	0.0%	0	0.0%
- Pediatric pulmonology	194	104	53.6%	71	36.6%	19	9.8%	0	0.0%	0	0.0%
- Pediatric rheumatology	101	71	70.3%	22	21.8%	8	7.9%	0	0.0%	0	0.0%
- Sports medicine	28	20	71.4%	3	10.7%	5	17.9%	0	0.0%	0	0.0%
- Pediatric transplant hepatology	15	12	80.0%	3	20.0%	0	0.0%	0	0.0%	0	0.0%
- Pediatric hospital medicine	236	168	71.2%	26	11.0%	42	17.8%	0	0.0%	0	0.0%
Physical medicine and rehabilitation	1,810	1,017	56.2%	122	6.7%	670	37.0%	1	0.1%	0	0.0%
- Brain injury medicine	28	15	53.6%	1	3.6%	12	42.9%	0	0.0%	0	0.0%
- Neuromuscular medicine	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
- Spinal cord injury medicine	25	16	64.0%	6	24.0%	3	12.0%	0	0.0%	0	0.0%
- Pediatric rehabilitation medicine	26	14	53.8%	1	3.8%	11	42.3%	0	0.0%	0	0.0%
- Sports medicine	45	31	68.9%	2	4.4%	12	26.7%	0	0.0%	0	0.0%
Plastic surgery	194	136	70.1%	41	21.1%	16	8.2%	1	0.5%	0	0.0%
Plastic Surgery - integrated	1,204	1,133	94.1%	58	4.8%	13	1.1%	0	0.0%	0	0.0%
- Craniofacial surgery	5	4	80.0%	0	0.0%	1	20.0%	0	0.0%	0	0.0%
- Hand surgery	29	25	86.2%	1	3.4%	0	0.0%	3	10.3%	0	0.0%
Public health and general preventive medicine	169	105	62.1%	40	23.7%	23	13.6%	1	0.6%	0	0.0%
- Undersea and hyperbaric medicine	3	1	33.3%	1	33.3%	1	33.3%	0	0.0%	0	0.0%
Aerospace medicine	34	20	58.8%	1	2.9%	12	35.3%	1	2.9%	0	0.0%
Occupational and environmental medicine	98	48	49.0%	22	22.4%	28	28.6%	0	0.0%	0	0.0%
Psychiatry	8,481	5,316	62.7%	1,480	17.5%	1,681	19.8%	4	0.0%	0	0.0%
- Addiction medicine (multidisciplinary)	216	133	61.6%	45	20.8%	38	17.6%	0	0.0%	0	0.0%
- Addiction psychiatry	79	42	53.2%	28	35.4%	9	11.4%	0	0.0%	0	0.0%
- Child and adolescent psychiatry	1,040	629	60.5%	227	21.8%	184	17.7%	0	0.0%	0	0.0%
- Forensic psychiatry	95	61	64.2%	19	20.0%	15	15.8%	0	0.0%	0	0.0%
- Geriatric psychiatry	40	28	70.0%	10	25.0%	2	5.0%	0	0.0%	0	0.0%
- Consultation-liaison psychiatry	116	74	63.8%	32	27.6%	9	7.8%	1	0.9%	0	0.0%
Radiation oncology	736	581	78.9%	110	14.9%	45	6.1%	0	0.0%	0	0.0%
Radiology-diagnostic	4,770	3,510	73.6%	519	10.9%	741	15.5%	0	0.0%	0	0.0%
- Abdominal radiology	56	21	37.5%	28	50.0%	2	3.6%	5	8.9%	0	0.0%
- Musculoskeletal radiology	36	27	75.0%	8	22.2%	1	2.8%	0	0.0%	0	0.0%
- Neuroendovascular intervention	8	3	37.5%	4	50.0%	1	12.5%	0	0.0%	0	0.0%
- Neuroradiology	309	197	63.8%	74	23.9%	35	11.3%	3	1.0%	0	0.0%
- Nuclear radiology	15	3	20.0%	11	73.3%	0	0.0%	1	6.7%	0	0.0%
- Pediatric radiology	58	28	48.3%	24	41.4%	5	8.6%	1	1.7%	0	0.0%
Interventional radiology - independent	162	94	58.0%	44	27.2%	24	14.8%	0	0.0%	0	0.0%
Interventional radiology - integrated	811	668	82.4%	48	5.9%	94	11.6%	1	0.1%	0	0.0%
Surgery	10,074	6,914	68.6%	1,628	16.2%	1,524	15.1%	7	0.1%	1	0.0%
- Complex general surgical oncology	136	104	76.5%	25	18.4%	3	2.2%	4	2.9%	0	0.0%
- Hand surgery	9	3	33.3%	6	66.7%	0	0.0%	0	0.0%	0	0.0%
- Pediatric surgery	89	77	86.5%	10	11.2%	2	2.2%	0	0.0%	0	0.0%
- Surgical critical care	374	274	73.3%	44	11.8%	54	14.4%	2	0.5%	0	0.0%
- Vascular surgery - independent	281	198	70.5%	48	17.1%	35	12.5%	0	0.0%	0	0.0%
Vascular surgery - integrated	458	379	82.8%	53	11.6%	25	5.5%	1	0.2%	0	0.0%
Thoracic surgery - independent	254	189	74.4%	54	21.3%	11	4.3%	0	0.0%	0	0.0%
- Congenital cardiac surgery	11	10	90.9%	1	9.1%	0	0.0%	0	0.0%	0	0.0%
Thoracic surgery - integrated	264	241	91.3%	19	7.2%	4	1.5%	0	0.0%	0	0.0%
Urology	1,934	1,725	89.2%	68	3.5%	140	7.2%	1	0.1%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	40	31	77.5%	6	15.0%	2	5.0%	1	2.5%	0	0.0%
- Pediatric urology	39	29	74.4%	5	12.8%	1	2.6%	4	10.3%	0	0.0%
Transitional year	2,070	1,281	61.9%	283	13.7%	505	24.4%	1	0.0%	0	0.0%
Internal medicine/Pediatrics	1,555	1,301	83.7%	97	6.2%	157	10.1%	0	0.0%	0	0.0%
Health care administration, leadership, and management	4	2	50.0%	1	25.0%	1	25.0%	0	0.0%	0	0.0%

Note: Pipeline specialties are highlighted. Abbreviations: LCME, Liaison Committee on Medical Education.

FIGURE C.16

## Specialties Organized by Largest Percentages of Active Residents who are International Medical Graduates



Abbreviations: IMG, international medical school graduates.

TABLE C.17

## Number of Active Residents by Medical School Type and State

State Name	State Abbreviation	Total Residents	Medical School Type				
			US LCME-Accredited Medical School	International Medical School	Osteopathic Medical School	Canadian Medical School	US Medical School Unknown
OVERALL	-	167,083	95,609	40,276	30,951	163	84
Alabama	AL	2,037	1,166	529	341	0	1
Alaska	AK	40	23	5	12	0	0
Arizona	AZ	2,480	1,300	462	718	0	0
Arkansas	AR	1,281	520	507	252	0	2
California	CA	15,798	11,182	2,273	2,311	29	3
Colorado	CO	1,802	1,326	132	342	1	1
Connecticut	CT	2,750	1,501	962	277	7	3
Delaware	DE	488	207	96	184	1	0
District of Columbia	DC	1,806	1,209	452	145	0	0
Florida	FL	9,400	3,897	3,267	2,231	5	0
Georgia	GA	3,573	2,008	976	586	1	2
Hawaii	HI	485	285	75	125	0	0
Idaho	ID	236	99	28	109	0	0
Illinois	IL	7,397	4,408	1,756	1,225	6	2
Indiana	IN	1,809	1,052	330	425	1	1
Iowa	IA	1,096	627	223	244	0	2
Kansas	KS	1,010	588	190	231	0	1
Kentucky	KY	1,677	1,001	291	385	0	0
Louisiana	LA	2,532	1,463	750	319	0	0
Maine	ME	413	232	60	121	0	0
Maryland	MD	3,599	2,384	826	377	2	10
Massachusetts	MA	6,332	4,687	1,249	368	26	2
Michigan	MI	7,847	3,346	2,359	2,131	8	3
Minnesota	MN	2,508	1,731	520	244	10	3
Mississippi	MS	1,081	504	296	281	0	0
Missouri	MO	3,425	2,082	742	596	0	5
Montana	MT	87	40	11	36	0	0
Nebraska	NE	983	557	218	208	0	0
Nevada	NV	1,056	367	250	439	0	0
New Hampshire	NH	548	344	109	93	2	0
New Jersey	NJ	4,906	1,611	2,056	1,238	1	0
New Mexico	NM	828	469	181	178	0	0
New York	NY	20,376	10,387	7,466	2,495	23	5
North Carolina	NC	4,475	3,175	520	774	4	2
North Dakota	ND	199	87	89	23	0	0
Ohio	OH	8,123	4,273	1,742	2,092	9	7
Oklahoma	OK	1,372	512	200	659	1	0
Oregon	OR	1,226	849	110	266	0	1
Pennsylvania	PA	10,399	5,509	2,441	2,434	8	7
Puerto Rico	PR	1,024	625	398	0	0	1
Rhode Island	RI	967	697	166	104	0	0
South Carolina	SC	2,149	1,254	306	588	0	1
South Dakota	SD	176	73	65	38	0	0
Tennessee	TN	2,960	2,070	467	420	2	1
Texas	TX	11,743	7,034	2,525	2,169	9	6
Utah	UT	996	810	86	95	0	5
Vermont	VT	343	264	28	50	1	0
Virginia	VA	3,314	1,950	520	841	0	3
Washington	WA	2,469	1,804	211	450	3	1
West Virginia	WV	1,129	515	340	274	0	0
Wisconsin	WI	2,288	1,496	402	384	3	3
Wyoming	WY	45	9	13	23	0	0

Abbreviations: LCME, Liaison Committee on Medical Education.

TABLE C.18

## Mean Age of Year 1 Residents by Specialty and Subspecialty and Medical School Type

Specialty	OVERALL Age (Avg)	Medical School Type				
		US LCME - Accredited Medical School	International Medical School	Osteopathic Medical School	Canadian Medical School	US Medical School Unknown
OVERALL	31.0	30.3	32.8	30.5	32.9	32.7
TOTAL PIPELINE	30.0	29.2	31.7	29.7	31.8	31.4
Allergy and immunology	32.1	32.0	32.5	31.9		
Anesthesiology	29.4	29.1	31.5	29.4	26.5	
- Adult cardiothoracic anesthesiology	34.0	33.3	36.3	34.3	33.3	
- Critical care medicine	33.3	32.9	35.3	32.8		
- Obstetric anesthesiology	33.1	32.1	36.0	33.3	34.0	
- Pain medicine (multidisciplinary)	34.4	33.8	37.2	33.8	32.0	
- Pediatric anesthesiology	33.9	33.5	35.2	33.6		
- Pediatric cardiac anesthesiology	34.4	34.6	35.0		32.0	
- Regional anesthesiology and acute pain medicine	32.8	32.5	33.8	32.7		
Colon and rectal surgery	34.1	34.3	34.2	33.7	32.9	
Dermatology	30.3	30.1	36.6	30.9		
- Dermatopathology (multidisciplinary)	34.3	34.1	35.3	33.0	34.0	
- Micrographic surgery and dermatologic oncology	33.5	33.5	33.3	34.1	33.0	
- Pediatric dermatology	33.2	32.9	34.3			
Emergency medicine	30.1	29.6	32.4	30.0		
- Emergency medical services	34.4	34.0	34.4	35.1		
- Medical toxicology	32.3	31.6	35.5	33.9		
- Pediatric emergency medicine	32.3	32.1	33.2	32.2		
- Sports medicine	32.8	31.9	33.8	33.7		
- Undersea and hyperbaric medicine	36.0	36.3	34.0	35.0	40.0	
Family medicine	31.1	29.6	33.8	29.9	32.3	34.5
- Clinical informatics	36.4	36.4	36.3			
- Geriatric medicine	35.1	34.6	37.8	32.7	28.0	
- Hospice and palliative medicine (multidisciplinary)	35.9	35.7	37.0	35.4		
- Sports medicine	33.0	32.5	34.0	33.0		
Internal medicine	29.8	29.0	30.8	29.5	27.0	29.0
- Adult congenital heart disease	36.2	36.1	36.3	37.0		
- Advanced heart failure and transplant cardiology	35.0	34.6	35.6	34.4	32.0	
- Cardiovascular disease	32.3	31.8	33.1	32.3	29.0	
- Clinical cardiac electrophysiology	34.9	34.7	35.1	35.1	32.0	
- Clinical informatics	33.8	33.3	35.4	33.5		
- Critical care medicine	34.6	33.4	35.8	33.9	30.5	
- Endocrinology, diabetes, and metabolism	33.3	31.5	34.4	32.6		
- Gastroenterology	32.2	31.6	33.3	32.4		
- Geriatric medicine	34.4	33.1	35.7	31.8	30.0	
- Hematology and medical oncology	32.8	32.3	33.4	33.3	34.4	
- Infectious disease	34.3	33.3	35.7	33.2		
- Interventional cardiology	35.6	34.8	36.3	34.7	34.0	
- Interventional pulmonology	36.1	35.4	36.5	36.5		
- Medical oncology	30.3		30.0	31.0		
- Nephrology	34.0	32.1	35.0	32.7		
- Pulmonary disease	33.5	31.6	34.0	32.0		
- Pulmonary disease and critical care medicine	32.9	32.3	33.6	32.7		
- Rheumatology	32.7	32.1	33.5	32.1		
- Sleep medicine (multidisciplinary)	34.7	34.1	35.3	34.8	30.7	
- Transplant hepatology	34.1	34.4	34.1	35.0	30.0	
Medical genetics and genomics	34.9	33.3	35.5	36.0		
- Medical biochemical genetics	35.0	34.9	35.3	35.0		
- Molecular genetic pathology (multidisciplinary)	38.6	38.0	39.3	32.0	34.0	
Clinical biochemical genetics	38.8		37.0			
Laboratory genetics and genomics	37.9					39.0
Neurological surgery	29.4	29.2	31.5	28.8		
- Neuroendovascular intervention	38.5	37.0	40.0			

TABLE C.18 *Continued*

## Mean Age of Year 1 Residents by Specialty and Subspecialty and Medical School Type

Specialty	OVERALL Age (Avg)	Medical School Type				
		US LCME - Accredited Medical School	International Medical School	Osteopathic Medical School	Canadian Medical School	US Medical School Unknown
Neurology	29.8	29.2	31.1	29.7		29.0
- Clinical neurophysiology	34.2	33.6	35.7	33.0	33.5	
- Epilepsy	34.1	33.4	35.2	33.5	36.5	
- Neurocritical care (multidisciplinary)	34.7	35.0	34.6	34.1		
- Neuroendovascular intervention	32.0		32.0			
- Neurodevelopmental disabilities	32.5	32.1	30.0	34.3		
- Neuromuscular medicine	33.8	33.6	34.0	34.6	32.6	
- Vascular neurology	33.2	33.1	33.1	34.2	34.0	
Child neurology	31.7	31.0	33.5	31.2	39.0	
Nuclear medicine	35.3	32.1	36.7	33.0	33.0	
Obstetrics and gynecology	28.8	28.5	31.1	29.2		
- Urogynecology and reconstructive pelvic surgery	32.5	32.5	32.0	31.7		
- Gynecologic oncology	32.8	32.6	36.5	33.0		
- Maternal-fetal medicine	32.9	32.6	35.2	33.2		
- Reproductive endocrinology and infertility	33.3	32.7	36.3	34.5		
- Complex family planning	32.4	32.4	34.0	32.5		
Ophthalmology	29.3	29.1	32.8	29.6		
- Ophthalmic plastic and reconstructive surgery	35.0	34.0	36.0			
Orthopaedic surgery	28.9	28.8	32.7	29.2		
- Adult reconstructive orthopaedics	34.0	33.8	39.0	32.3	32.7	
- Foot and ankle orthopaedics	35.1	33.6	37.8	36.0		
- Hand surgery	34.0	34.0	36.5	33.7	32.5	
- Musculoskeletal oncology	36.1	33.3	39.3	37.0	35.0	
- Orthopaedic sports medicine	34.1	33.5	39.4	34.0	38.0	
- Orthopaedic surgery of the spine	34.5	32.9	44.3		36.0	
- Orthopaedic trauma	34.1	33.7	38.0	38.0		
- Pediatric orthopaedics	35.1	34.0	37.7	33.0	41.0	
Osteopathic neuromusculoskeletal medicine	32.3	32.0		32.3		
Otolaryngology - head and neck surgery	28.9	28.9	29.6	28.8		
- Neurotology	33.4	33.4			35.0	
- Pediatric otolaryngology	34.0	32.9	37.1	38.0	30.0	
Pathology-anatomic and clinical	31.7	30.3	34.1	30.0		
- Blood banking/transfusion medicine	36.7	36.6	37.5	33.5	32.0	
- Clinical informatics	36.0	37.1	33.0	34.0		
- Chemical pathology	34.0		34.0			
- Cytopathology	37.2	35.0	38.7	35.9		
- Forensic pathology	36.1	36.5	37.7	34.2		
- Hematopathology	37.1	34.9	39.2	35.3		
- Medical microbiology	34.7	31.8	36.7	37.5		
- Neuropathology	35.4	35.7	35.0			
- Pediatric pathology	37.3	33.8	40.0	34.0		
- Selective pathology	36.9	34.7	38.0	35.5	32.5	
Pediatrics	29.4	28.6	31.2	28.8	33.0	
- Adolescent medicine	32.1	31.8	33.8	32.0		
- Child abuse pediatrics	33.5	31.3	31.0	36.0		
- Clinical informatics	35.0	36.4	33.0	31.8		
- Developmental-behavioral pediatrics	35.0	35.5	35.3	31.2		
- Neonatal-perinatal medicine	32.4	31.7	33.8	32.1		
- Pediatric cardiology	32.2	31.5	34.3	32.4		
- Pediatric critical care medicine	32.3	32.1	33.3	31.8	34.0	
- Pediatric emergency medicine	33.0	32.1	35.5	32.6		
- Pediatric endocrinology	33.1	32.0	34.7	32.7		
- Pediatric gastroenterology	32.3	31.7	33.0	32.5		
- Pediatric hematology/oncology	32.6	32.3	33.4	31.9		
- Pediatric infectious diseases	33.2	31.9	35.3	30.5		

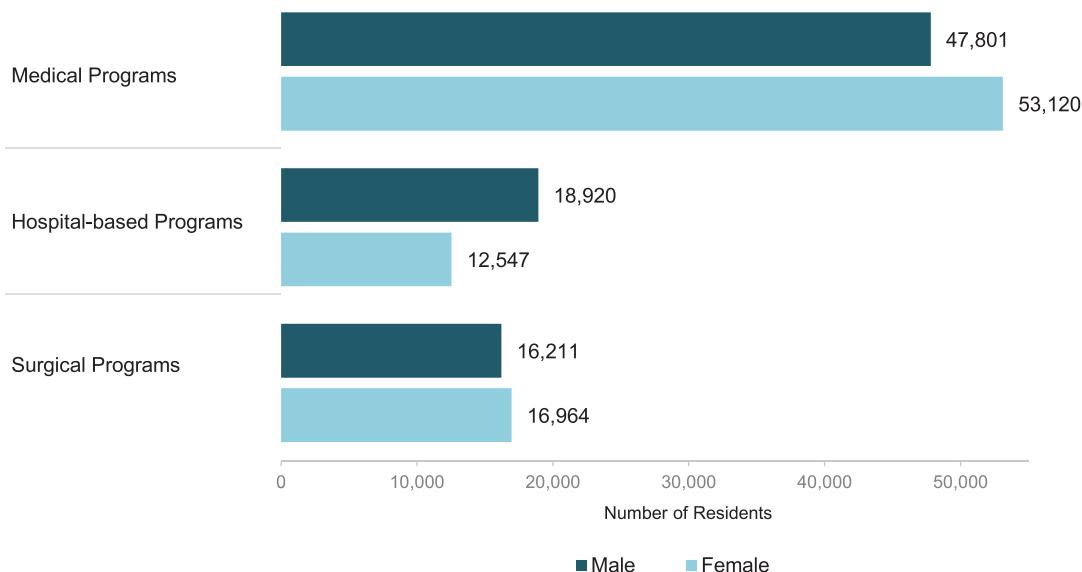
TABLE C.18 *Continued*

## Mean Age of Year 1 Residents by Specialty and Subspecialty and Medical School Type

Specialty	OVERALL Age (Avg)	Medical School Type				
		US LCME - Accredited Medical School	International Medical School	Osteopathic Medical School	Canadian Medical School	US Medical School Unknown
- Pediatric nephrology	33.1	31.2	37.9	31.3		
- Pediatric pulmonology	32.6	31.4	34.4	32.6		
- Pediatric rheumatology	32.6	32.2	34.2	32.8		
- Sports medicine	32.5	32.5	34.0	31.6		
- Pediatric transplant hepatology	35.4	35.0	37.0			
- Pediatric hospital medicine	31.8	31.5	33.4	31.7		
Physical medicine and rehabilitation	30.0	29.4	34.2	30.3		
- Brain injury medicine	33.4	32.1	49.0	33.7		
- Neuromuscular medicine						
- Spinal cord injury medicine	34.6	33.6	38.5	32.3		
- Pediatric rehabilitation medicine	32.7	32.6	33.0	32.7		
- Sports medicine	32.7	32.6	32.5	32.8		
Plastic surgery	34.6	34.5	35.8	33.6	31.0	
Plastic Surgery - integrated	29.1	28.9	33.0	30.3		
- Craniofacial surgery	35.2	34.8		37.0		
- Hand surgery	34.3	34.4	37.0		33.0	
Public health and general preventive medicine	35.2	34.3	36.7	37.3		
- Undersea and hyperbaric medicine	36.0	37.0	40.0	31.0		
Aerospace medicine	38.2	38.9		37.7		
Occupational and environmental medicine	38.7	39.4	40.4	36.1		
Psychiatry	30.1	29.5	32.6	29.9	33.7	
- Addiction medicine (multidisciplinary)	37.5	36.8	38.7	38.5		
- Addiction psychiatry	36.1	33.7	40.0	34.2		
- Child and adolescent psychiatry	33.2	32.4	35.6	33.1		
- Forensic psychiatry	34.7	35.0	34.1	33.9		
- Geriatric psychiatry	35.2	35.3	35.8	32.0		
- Consultation-liaison psychiatry	34.2	33.3	36.8	32.7	34.0	
Radiation oncology	31.6	30.8	36.0	31.3		
Radiology-diagnostic	30.2	30.0	31.9	30.7		
- Abdominal radiology	34.7	33.6	36.3	34.5	30.0	
- Musculoskeletal radiology	34.6	33.9	37.5	33.0		
- Neuroendovascular intervention	36.0	35.5	36.5			
- Neuroradiology	35.2	34.3	37.3	36.1	35.3	
- Nuclear radiology	38.2	43.3	37.2		34.0	
- Pediatric radiology	35.5	34.3	37.6	32.6	37.0	
Interventional radiology - independent	34.7	33.9	36.1	35.0		
Interventional radiology - integrated	30.2	30.1	31.0	30.2	25.0	
Surgery	29.6	29.1	31.2	29.5	34.0	30.0
- Complex general surgical oncology	35.3	35.2	35.6	35.0		
- Hand surgery	38.1	41.0	36.7			
- Pediatric surgery	35.8	35.8	35.7	36.0		
- Surgical critical care	35.5	35.3	38.1	34.5	34.5	
- Vascular surgery - independent	34.0	33.7	34.5	34.7		
Vascular surgery - integrated	29.7	29.1	32.6	30.8	31.0	
Thoracic surgery - independent	34.9	34.8	35.4	34.0		
- Congenital cardiac surgery	40.4	39.3	45.0			
Thoracic surgery - integrated	28.5	28.5		27.0		
Urology	29.0	28.9	30.9	29.0	35.0	
- Urogynecology and reconstructive pelvic surgery	34.8	33.4	36.6	41.0		
- Pediatric urology	34.2	34.7	33.5		32.0	
Transitional year	29.7	29.0	33.4	29.5	29.0	
Internal medicine/Pediatrics	28.7	28.4	30.1	30.4		
Health care administration, leadership, and management	38.7	42.5		31.0		

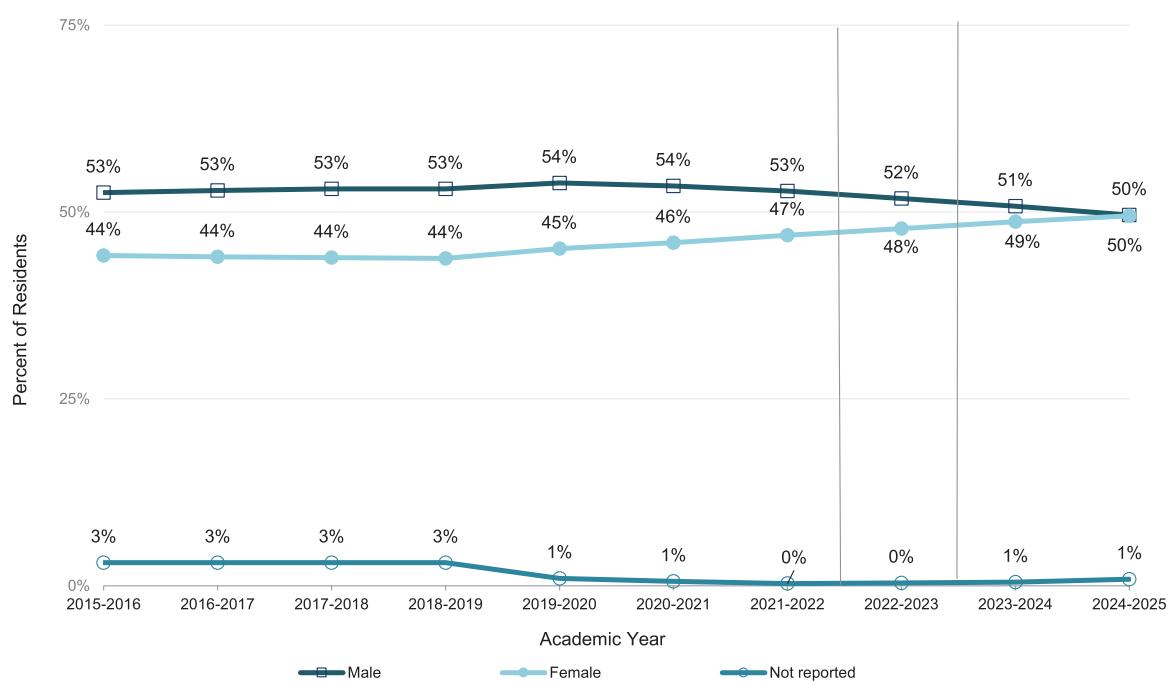
Note: Pipeline specialties are highlighted.

Abbreviations: LCME, Liaison Committee on Medical Education.

**FIGURE C.19****Number of Active Residents by Specialty Group and Sex**

Note: Not shown are those residents for which gender is not reported (n = 1,516).

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

**FIGURE C.20****Percent of Active Residents by Sex and Academic Year, 2015-2016 to 2024-2025**

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

TABLE C.21

## Number of Active Residents by Specialty and Subspecialty and Sex

Specialty	Total Programs	Total Residents	Sex					
			Female		Male		Not Reported	
			#	%	#	%	#	%
OVERALL	13,762	167,083	82,633	49.5%	82,934	49.6%	1,516	0.9%
<b>TOTAL PIPELINE</b>	<b>5,622</b>	<b>134,730</b>	<b>67,222</b>	<b>49.9%</b>	<b>66,295</b>	<b>49.2%</b>	<b>1,213</b>	<b>0.9%</b>
Allergy and immunology	92	342	222	64.9%	120	35.1%	0	0.0%
Anesthesiology	182	7,802	2,926	37.5%	4,835	62.0%	41	0.5%
- Adult cardiothoracic anesthesiology	76	263	89	33.8%	173	65.8%	1	0.4%
- Critical care medicine	68	180	70	38.9%	106	58.9%	4	2.2%
- Obstetric anesthesiology	45	43	29	67.4%	13	30.2%	1	2.3%
- Pain medicine (multidisciplinary)	118	415	92	22.2%	323	77.8%	0	0.0%
- Pediatric anesthesiology	64	149	76	51.0%	71	47.7%	2	1.3%
- Pediatric cardiac anesthesiology	15	11	4	36.4%	7	63.6%	0	0.0%
- Regional anesthesiology and acute pain medicine	46	81	36	44.4%	42	51.9%	3	3.7%
Colon and rectal surgery	74	116	49	42.2%	67	57.8%	0	0.0%
Dermatology	145	1,704	1,112	65.3%	591	34.7%	1	0.1%
- Dermatopathology (multidisciplinary)	58	71	36	50.7%	35	49.3%	0	0.0%
- Micrographic surgery and dermatologic oncology	84	97	49	50.5%	48	49.5%	0	0.0%
- Pediatric dermatology	37	21	14	66.7%	3	14.3%	4	19.0%
Emergency medicine	297	9,752	4,265	43.7%	5,431	55.7%	56	0.6%
- Emergency medical services	88	104	30	28.8%	74	71.2%	0	0.0%
- Medical toxicology	32	107	42	39.3%	65	60.7%	0	0.0%
- Pediatric emergency medicine	30	152	101	66.4%	51	33.6%	0	0.0%
- Sports medicine	11	21	8	38.1%	13	61.9%	0	0.0%
- Undersea and hyperbaric medicine	8	15	7	46.7%	8	53.3%	0	0.0%
Family medicine	817	15,687	8,652	55.2%	6,787	43.3%	248	1.6%
- Clinical informatics	10	24	7	29.2%	17	70.8%	0	0.0%
- Geriatric medicine	44	28	18	64.3%	10	35.7%	0	0.0%
- Hospice and palliative medicine (multidisciplinary)	190	479	300	62.6%	178	37.2%	1	0.2%
- Sports medicine	173	305	99	32.5%	206	67.5%	0	0.0%
Internal medicine	688	34,086	15,730	46.1%	17,946	52.6%	410	1.2%
- Adult congenital heart disease	32	31	14	45.2%	16	51.6%	1	3.2%
- Advanced heart failure and transplant cardiology	84	92	39	42.4%	50	54.3%	3	3.3%
- Cardiovascular disease	294	3,762	1,138	30.2%	2,619	69.6%	5	0.1%
- Clinical cardiac electrophysiology	122	350	48	13.7%	300	85.7%	2	0.6%
- Clinical informatics	31	79	23	29.1%	56	70.9%	0	0.0%
- Critical care medicine	79	388	128	33.0%	258	66.5%	2	0.5%
- Endocrinology, diabetes, and metabolism	163	773	534	69.1%	233	30.1%	6	0.8%
- Gastroenterology	242	2,152	873	40.6%	1,278	59.4%	1	0.0%
- Geriatric medicine	118	264	172	65.2%	88	33.3%	4	1.5%
- Hematology and medical oncology	195	2,303	1,050	45.6%	1,247	54.1%	6	0.3%
- Infectious disease	170	814	400	49.1%	396	48.6%	18	2.2%
- Interventional cardiology	189	365	66	18.1%	296	81.1%	3	0.8%
- Interventional pulmonology	41	34	7	20.6%	27	79.4%	0	0.0%
- Medical oncology	1	5	2	40.0%	3	60.0%	0	0.0%
- Nephrology	152	887	341	38.4%	515	58.1%	31	3.5%
- Pulmonary disease	16	62	24	38.7%	38	61.3%	0	0.0%
- Pulmonary disease and critical care medicine	219	2,445	977	40.0%	1,466	60.0%	2	0.1%
- Rheumatology	138	591	377	63.8%	213	36.0%	1	0.2%
- Sleep medicine (multidisciplinary)	99	239	126	52.7%	111	46.4%	2	0.8%
- Transplant hepatology	70	43	22	51.2%	19	44.2%	2	4.7%
Medical genetics and genomics	44	60	35	58.3%	23	38.3%	2	3.3%
- Medical biochemical genetics	22	18	13	72.2%	5	27.8%	0	0.0%
- Molecular genetic pathology (multidisciplinary)	44	63	26	41.3%	36	57.1%	1	1.6%
Clinical biochemical genetics	14	8	2	25.0%	2	25.0%	4	50.0%
Laboratory genetics and genomics	38	74	21	28.4%	14	18.9%	39	52.7%
Neurological surgery	119	1,611	440	27.3%	1,168	72.5%	3	0.2%
- Neuroendovascular intervention	3	2	1	50.0%	1	50.0%	0	0.0%

TABLE C.21 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Sex

Specialty	Total Programs	Total Residents	Sex					
			Female		Male		Not Reported	
			#	%	#	%	#	%
Neurology	197	3,900	1,957	50.2%	1,909	48.9%	34	0.9%
- Clinical neurophysiology	98	159	83	52.2%	74	46.5%	2	1.3%
- Epilepsy	100	172	93	54.1%	78	45.3%	1	0.6%
- Neurocritical care (multidisciplinary)	65	195	81	41.5%	111	56.9%	3	1.5%
- Neuroendovascular intervention	2	4	2	50.0%	2	50.0%	0	0.0%
- Neurodevelopmental disabilities	11	36	28	77.8%	8	22.2%	0	0.0%
- Neuromuscular medicine	59	86	46	53.5%	38	44.2%	2	2.3%
- Vascular neurology	115	186	81	43.5%	105	56.5%	0	0.0%
Child neurology	83	498	323	64.9%	173	34.7%	2	0.4%
Nuclear medicine	33	77	32	41.6%	38	49.4%	7	9.1%
Obstetrics and gynecology	303	6,178	5,450	88.2%	686	11.1%	42	0.7%
- Urogynecology and reconstructive pelvic surgery	59	175	146	83.4%	29	16.6%	0	0.0%
- Gynecologic oncology	75	260	207	79.6%	53	20.4%	0	0.0%
- Maternal-fetal medicine	114	445	357	80.2%	88	19.8%	0	0.0%
- Reproductive endocrinology and infertility	52	184	148	80.4%	36	19.6%	0	0.0%
- Complex family planning	36	66	65	98.5%	1	1.5%	0	0.0%
Ophthalmology	128	1,790	762	42.6%	1,019	56.9%	9	0.5%
- Ophthalmic plastic and reconstructive surgery	4	5	5	100.0%	0	0.0%	0	0.0%
Orthopaedic surgery	209	4,610	1,103	23.9%	3,506	76.1%	1	0.0%
- Adult reconstructive orthopaedics	26	55	3	5.5%	50	90.9%	2	3.6%
- Foot and ankle orthopaedics	9	15	2	13.3%	11	73.3%	2	13.3%
- Hand surgery	77	163	55	33.7%	106	65.0%	2	1.2%
- Musculoskeletal oncology	12	17	5	29.4%	8	47.1%	4	23.5%
- Orthopaedic sports medicine	95	219	27	12.3%	187	85.4%	5	2.3%
- Orthopaedic surgery of the spine	16	26	0	0.0%	25	96.2%	1	3.8%
- Orthopaedic trauma	13	20	8	40.0%	11	55.0%	1	5.0%
- Pediatric orthopaedics	25	34	10	29.4%	21	61.8%	3	8.8%
Osteopathic neuromusculoskeletal medicine	26	93	34	36.6%	59	63.4%	0	0.0%
Otolaryngology - head and neck surgery	131	1,883	853	45.3%	1,027	54.5%	3	0.2%
- Neurotology	29	39	13	33.3%	25	64.1%	1	2.6%
- Pediatric otolaryngology	34	34	18	52.9%	10	29.4%	6	17.6%
Pathology-anatomic and clinical	142	2,400	1,313	54.7%	1,046	43.6%	41	1.7%
- Blood banking/transfusion medicine	57	46	23	50.0%	23	50.0%	0	0.0%
- Clinical informatics	10	20	6	30.0%	13	65.0%	1	5.0%
- Chemical pathology	4	1	0	0.0%	1	100.0%	0	0.0%
- Cytopathology	91	106	70	66.0%	36	34.0%	0	0.0%
- Forensic pathology	52	57	32	56.1%	24	42.1%	1	1.8%
- Hematopathology	86	125	55	44.0%	69	55.2%	1	0.8%
- Medical microbiology	16	9	7	77.8%	2	22.2%	0	0.0%
- Neuropathology	41	55	28	50.9%	27	49.1%	0	0.0%
- Pediatric pathology	27	18	10	55.6%	8	44.4%	0	0.0%
- Selective pathology	134	184	87	47.3%	95	51.6%	2	1.1%
Pediatrics	217	9,845	7,362	74.8%	2,374	24.1%	109	1.1%
- Adolescent medicine	33	98	77	78.6%	21	21.4%	0	0.0%
- Child abuse pediatrics	34	49	39	79.6%	10	20.4%	0	0.0%
- Clinical informatics	11	29	9	31.0%	20	69.0%	0	0.0%
- Developmental-behavioral pediatrics	46	114	98	86.0%	14	12.3%	2	1.8%
- Neonatal-perinatal medicine	110	847	635	75.0%	206	24.3%	6	0.7%
- Pediatric cardiology	64	516	276	53.5%	239	46.3%	1	0.2%
- Pediatric critical care medicine	78	633	454	71.7%	176	27.8%	3	0.5%
- Pediatric emergency medicine	60	477	339	71.1%	137	28.7%	1	0.2%
- Pediatric endocrinology	72	252	196	77.8%	45	17.9%	11	4.4%
- Pediatric gastroenterology	69	348	239	68.7%	108	31.0%	1	0.3%
- Pediatric hematology/oncology	79	479	333	69.5%	144	30.1%	2	0.4%
- Pediatric infectious diseases	65	178	102	57.3%	69	38.8%	7	3.9%

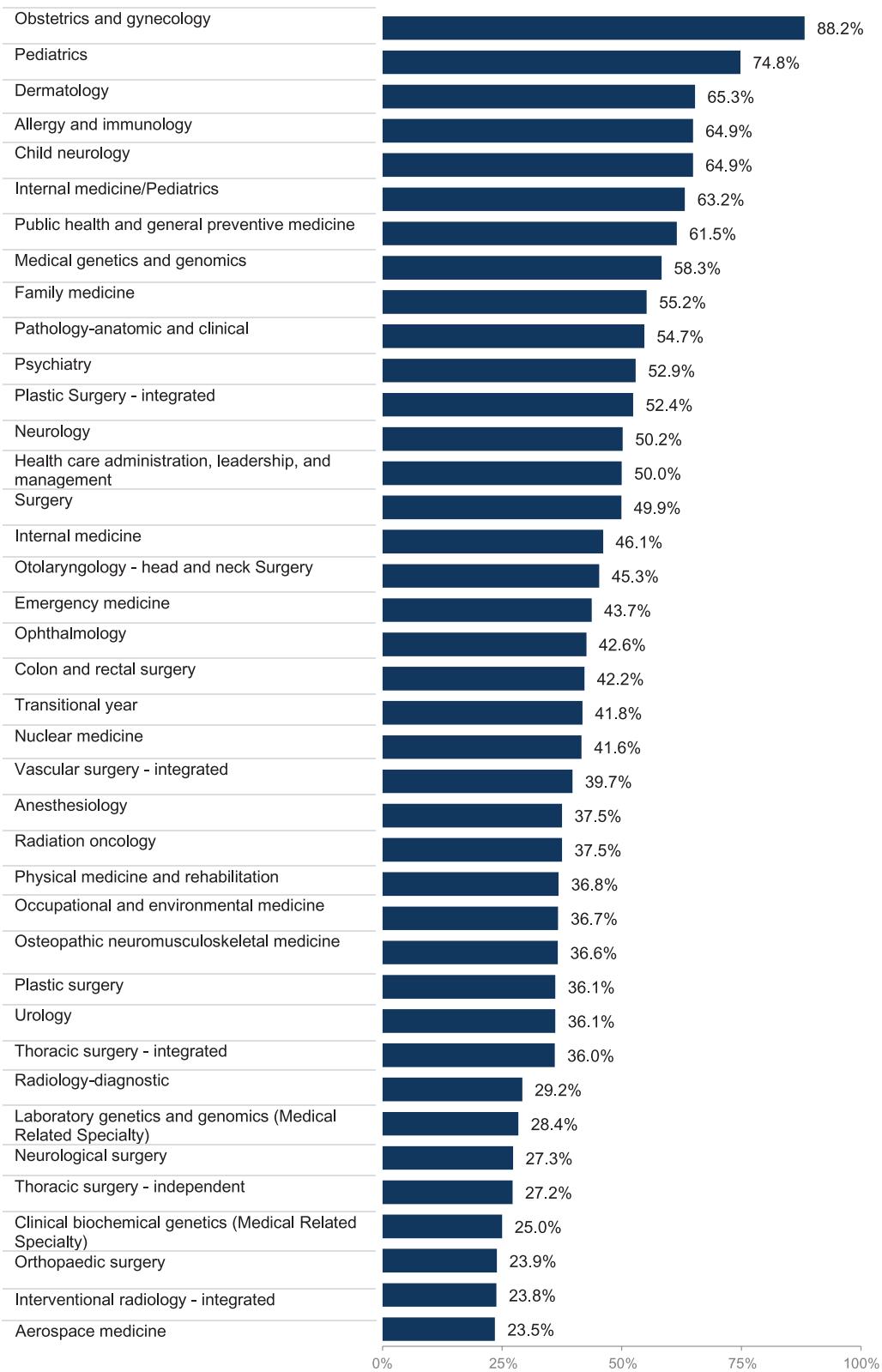
TABLE C.21 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Sex

Specialty	Total Programs	Total Residents	Sex					
			Female		Male		Not Reported	
			#	%	#	%	#	%
- Pediatric nephrology	49	139	97	69.8%	41	29.5%	1	0.7%
- Pediatric pulmonology	58	194	134	69.1%	54	27.8%	6	3.1%
- Pediatric rheumatology	39	101	81	80.2%	20	19.8%	0	0.0%
- Sports medicine	17	28	8	28.6%	20	71.4%	0	0.0%
- Pediatric transplant hepatology	17	15	13	86.7%	2	13.3%	0	0.0%
- Pediatric hospital medicine	80	236	195	82.6%	41	17.4%	0	0.0%
Physical medicine and rehabilitation	112	1,810	666	36.8%	1,138	62.9%	6	0.3%
- Brain injury medicine	29	28	14	50.0%	14	50.0%	0	0.0%
- Neuromuscular medicine	1	0	0	0.0%	0	0.0%	0	0.0%
- Spinal cord injury medicine	26	25	14	56.0%	11	44.0%	0	0.0%
- Pediatric rehabilitation medicine	24	26	22	84.6%	4	15.4%	0	0.0%
- Sports medicine	24	45	19	42.2%	26	57.8%	0	0.0%
Plastic surgery	49	194	70	36.1%	124	63.9%	0	0.0%
Plastic Surgery - integrated	9	5	3	60.0%	2	40.0%	0	0.0%
- Craniofacial surgery	19	29	14	48.3%	15	51.7%	0	0.0%
- Hand surgery	89	1,204	631	52.4%	570	47.3%	3	0.2%
Public health and general preventive medicine	40	169	104	61.5%	65	38.5%	0	0.0%
- Undersea and hyperbaric medicine	1	3	1	33.3%	2	66.7%	0	0.0%
Aerospace medicine	5	34	8	23.5%	26	76.5%	0	0.0%
Occupational and environmental medicine	22	98	36	36.7%	60	61.2%	2	2.0%
Psychiatry	353	8,481	4,490	52.9%	3,901	46.0%	90	1.1%
- Addiction medicine (multidisciplinary)	108	216	114	52.8%	98	45.4%	4	1.9%
- Addiction psychiatry	54	79	32	40.5%	47	59.5%	0	0.0%
- Child and adolescent psychiatry	158	1,040	627	60.3%	408	39.2%	5	0.5%
- Forensic psychiatry	60	95	44	46.3%	50	52.6%	1	1.1%
- Geriatric psychiatry	60	40	25	62.5%	14	35.0%	1	2.5%
- Consultation-liaison psychiatry	69	116	55	47.4%	61	52.6%	0	0.0%
Radiation oncology	87	736	276	37.5%	452	61.4%	8	1.1%
Radiology-diagnostic	200	4,770	1,393	29.2%	3,367	70.6%	10	0.2%
- Abdominal radiology	13	56	22	39.3%	24	42.9%	10	17.9%
- Musculoskeletal radiology	23	36	9	25.0%	23	63.9%	4	11.1%
- Neuroendovascular intervention	5	8	1	12.5%	7	87.5%	0	0.0%
- Neuroradiology	93	309	59	19.1%	236	76.4%	14	4.5%
- Nuclear radiology	19	15	3	20.0%	10	66.7%	2	13.3%
- Pediatric radiology	48	58	18	31.0%	38	65.5%	2	3.4%
Interventional radiology - independent	91	162	24	14.8%	137	84.6%	1	0.6%
Interventional radiology - integrated	101	811	193	23.8%	618	76.2%	0	0.0%
Surgery	365	10,074	5,024	49.9%	4,995	49.6%	55	0.5%
- Complex general surgical oncology	35	136	62	45.6%	73	53.7%	1	0.7%
- Hand surgery	2	9	3	33.3%	5	55.6%	1	11.1%
- Pediatric surgery	52	89	51	57.3%	38	42.7%	0	0.0%
- Surgical critical care	171	374	187	50.0%	186	49.7%	1	0.3%
- Vascular surgery - independent	123	281	98	34.9%	183	65.1%	0	0.0%
Vascular surgery - integrated	81	458	182	39.7%	274	59.8%	2	0.4%
Thoracic surgery - independent	79	254	69	27.2%	185	72.8%	0	0.0%
- Congenital cardiac surgery	17	11	4	36.4%	7	63.6%	0	0.0%
Thoracic surgery - integrated	36	264	95	36.0%	168	63.6%	1	0.4%
Urology	152	1,934	698	36.1%	1,221	63.1%	15	0.8%
- Urogynecology and reconstructive pelvic surgery	16	40	30	75.0%	9	22.5%	1	2.5%
- Pediatric urology	28	39	16	41.0%	21	53.8%	2	5.1%
Transitional year	201	2,070	865	41.8%	1,181	57.1%	24	1.2%
Internal medicine/Pediatrics	78	1,555	983	63.2%	561	36.1%	11	0.7%
Health care administration, leadership, and management	9	4	2	50.0%	2	50.0%	0	0.0%

Note: Pipeline specialties are highlighted.

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

**FIGURE C.22****Specialties Organized by Largest Percentages of Active Female Residents**

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges (“AAMC”).

TABLE C.23

## Number of Active Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
OVERALL	74,621	46,372	17,229	11,291	160	78	7,911	5,951	3,470
TOTAL PIPELINE	60,606	36,254	14,171	9,455	139	69	6,682	4,622	2,732
Allergy and immunology	132	128	30	19	0	0	12	18	3
Anesthesiology	3,782	1,992	725	555	5	1	414	221	107
- Adult cardiothoracic anesthesiology	126	78	18	10	3	0	18	3	7
- Critical care medicine	110	37	14	7	0	0	4	2	6
- Obstetric anesthesiology	25	9	2	2	0	0	1	1	3
- Pain medicine (multidisciplinary)	163	150	35	27	0	0	12	20	8
- Pediatric anesthesiology	84	28	10	8	0	0	8	6	5
- Pediatric cardiac anesthesiology	5	4	0	1	0	0	0	0	1
- Regional anesthesiology and acute pain medicine	35	25	2	4	0	0	6	5	4
Colon and rectal surgery	71	23	7	5	0	0	5	3	2
Dermatology	822	424	151	128	3	1	89	71	15
- Dermatopathology (multidisciplinary)	42	14	4	2	0	0	6	2	1
- Micrographic surgery and dermatologic oncology	55	17	7	5	1	0	5	5	2
- Pediatric dermatology	12	5	1	0	0	0	0	0	3
Emergency medicine	5,668	1,534	1,083	576	12	2	518	285	74
- Emergency medical services	78	3	9	9	0	0	2	2	1
- Medical toxicology	74	14	9	2	0	1	5	1	1
- Pediatric emergency medicine	84	32	17	9	0	0	8	2	0
- Sports medicine	9	3	4	3	0	0	2	0	0
- Undersea and hyperbaric medicine	6	1	2	3	1	0	0	1	1
Family medicine	6,822	4,026	1,781	1,359	38	19	840	432	370
- Clinical informatics	15	4	1	2	0	0	1	1	0
- Geriatric medicine	13	6	4	3	0	0	1	1	0
- Hospice and palliative medicine (multidisciplinary)	262	123	42	21	1	0	11	15	4
- Sports medicine	172	58	32	19	0	0	16	6	2
Internal medicine	11,092	12,931	3,544	2,353	20	13	1,466	1,508	1,159
- Adult congenital heart disease	12	9	3	4	0	0	0	0	3
- Advanced heart failure and transplant cardiology	34	28	10	4	0	0	2	6	8
- Cardiovascular disease	1,380	1,411	311	263	2	0	138	201	56
- Clinical cardiac electrophysiology	144	127	26	17	0	0	8	14	14
- Clinical informatics	31	37	3	2	0	0	1	3	2
- Critical care medicine	151	142	22	20	1	0	31	17	4
- Endocrinology, diabetes, and metabolism	208	347	111	26	0	0	17	47	17
- Gastroenterology	791	849	206	118	1	1	66	105	15
- Geriatric medicine	69	114	31	20	0	0	6	14	10
- Hematology and medical oncology	859	977	143	118	0	0	83	99	24
- Infectious disease	344	227	106	37	0	0	36	33	31
- Interventional cardiology	119	145	21	19	0	1	19	25	16
- Interventional pulmonology	12	9	6	1	0	0	0	4	2
- Medical oncology	2	3	0	0	0	0	0	0	0
- Nephrology	216	391	98	51	2	0	31	46	52
- Pulmonary disease	13	32	7	4	0	0	3	2	1
- Pulmonary disease and critical care medicine	1,061	812	229	105	1	0	88	123	26
- Rheumatology	212	254	65	17	0	0	19	15	9
- Sleep medicine (multidisciplinary)	82	112	21	6	0	0	6	7	5
- Transplant hepatology	13	17	4	2	0	0	2	2	3
Medical genetics and genomics	29	15	8	0	1	0	1	3	3
- Medical biochemical genetics	12	2	1	1	1	0	1	0	0
- Molecular genetic pathology (multidisciplinary)	28	16	6	2	0	0	1	3	7
Clinical biochemical genetics	0	0	1	1	0	0	0	1	5
Laboratory genetics and genomics	6	7	2	0	0	0	0	0	59
Neurological surgery	779	400	153	96	1	1	91	75	15
- Neuroendovascular intervention	1	1	0	0	0	0	0	0	0

TABLE C.23 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
Neurology	1,566	1,289	417	184	3	4	178	189	70
- Clinical neurophysiology	69	43	17	6	0	0	8	10	6
- Epilepsy	76	62	14	2	0	0	6	7	5
- Neurocritical care (multidisciplinary)	66	74	23	9	0	0	9	6	8
- Neuroendovascular intervention	2	1	0	1	0	0	0	0	0
- Neurodevelopmental disabilities	19	6	2	2	0	0	6	1	0
- Neuromuscular medicine	40	23	6	1	0	0	7	5	4
- Vascular neurology	57	67	18	13	0	1	11	17	2
Child neurology	238	129	59	22	0	1	28	13	8
Nuclear medicine	22	21	10	3	0	0	1	6	14
Obstetrics and gynecology	3,365	905	721	647	10	3	330	144	53
- Urogynecology and reconstructive pelvic surgery	101	33	18	12	0	0	8	3	0
- Gynecologic oncology	151	53	21	13	0	0	15	4	3
- Maternal-fetal medicine	262	73	39	36	0	0	18	14	3
- Reproductive endocrinology and infertility	97	35	16	16	0	0	9	9	2
- Complex family planning	37	15	5	6	0	0	1	1	1
Ophthalmology	795	585	129	106	0	0	83	57	35
- Ophthalmic plastic and reconstructive surgery	0	3	0	1	0	0	0	1	0
Orthopaedic surgery	2,959	642	387	281	4	5	202	102	28
- Adult reconstructive orthopaedics	29	11	6	2	0	0	2	2	3
- Foot and ankle orthopaedics	7	2	0	2	0	0	1	1	2
- Hand surgery	107	23	8	6	0	0	7	6	6
- Musculoskeletal oncology	7	2	1	1	0	0	0	0	6
- Orthopaedic sports medicine	156	22	12	6	0	0	8	6	9
- Orthopaedic surgery of the spine	14	5	2	3	0	0	0	1	1
- Orthopaedic trauma	15	3	1	0	0	0	1	0	0
- Pediatric orthopaedics	23	6	0	0	0	0	0	2	3
Osteopathic neuromusculoskeletal medicine	59	19	3	1	1	0	4	5	1
Otolaryngology - head and neck surgery	1,017	464	148	96	2	0	95	48	13
- Neurotology	18	13	1	1	0	0	4	2	0
- Pediatric otolaryngology	15	6	2	3	0	0	1	0	7
Pathology-anatomic and clinical	1,015	659	252	161	0	0	117	107	89
- Blood banking/transfusion medicine	22	11	4	7	0	0	0	1	1
- Clinical informatics	8	6	2	2	0	0	0	2	0
- Chemical pathology	0	0	1	0	0	0	0	0	0
- Cytopathology	43	32	16	6	0	0	3	4	2
- Forensic pathology	41	6	5	3	0	0	1	1	0
- Hematopathology	46	42	10	11	0	0	6	6	4
- Medical microbiology	2	2	3	1	0	0	1	0	0
- Neuropathology	28	12	7	2	0	0	3	3	0
- Pediatric pathology	6	7	3	0	0	0	0	0	2
- Selective pathology	71	69	13	6	1	0	6	9	9
Pediatrics	4,625	2,333	1,214	693	6	1	437	265	271
- Adolescent medicine	49	22	9	14	0	0	3	1	0
- Child abuse pediatrics	21	14	5	6	0	0	0	3	0
- Clinical informatics	12	12	2	1	0	0	1	1	0
- Developmental-behavioral pediatrics	58	28	15	8	0	0	0	2	3
- Neonatal-perinatal medicine	399	213	99	69	0	0	30	27	10
- Pediatric cardiology	274	126	56	22	0	0	16	19	3
- Pediatric critical care medicine	397	116	56	26	0	0	21	13	4
- Pediatric emergency medicine	276	79	51	43	1	0	21	6	0
- Pediatric endocrinology	131	51	28	11	0	0	4	14	13
- Pediatric gastroenterology	126	110	55	23	0	0	20	11	3
- Pediatric hematology/oncology	271	100	41	24	0	0	18	16	9
- Pediatric infectious diseases	90	33	22	6	1	0	13	5	8

TABLE C.23 *Continued*

## Number of Active Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
- Pediatric nephrology	65	33	18	8	0	0	3	9	3
- Pediatric pulmonology	78	54	32	8	0	1	10	6	5
- Pediatric rheumatology	49	20	14	5	0	0	6	6	1
- Sports medicine	16	6	5	1	0	0	0	0	0
- Pediatric transplant hepatology	8	5	2	0	0	0	0	0	0
- Pediatric hospital medicine	130	63	24	7	0	0	5	6	1
Physical medicine and rehabilitation	866	492	183	119	1	0	107	34	8
- Brain injury medicine	12	10	2	2	0	0	1	0	1
- Neuromuscular medicine	0	0	0	0	0	0	0	0	0
- Spinal cord injury medicine	15	6	2	1	0	0	1	0	0
- Pediatric rehabilitation medicine	17	5	1	0	0	0	2	1	0
- Sports medicine	23	9	6	3	0	0	0	4	0
Plastic surgery	98	38	22	12	0	0	16	7	1
Plastic Surgery - integrated	628	258	138	55	1	0	75	38	11
- Craniofacial surgery	3	1	1	0	0	0	0	0	0
- Hand surgery	18	6	1	2	0	0	0	2	0
Public health and general preventive medicine	62	44	15	29	0	0	13	6	0
- Undersea and hyperbaric medicine	0	3	0	0	0	0	0	0	0
Aerospace medicine	27	2	3	1	0	0	1	0	0
Occupational and environmental medicine	37	30	8	8	0	0	7	7	1
Psychiatry	3,557	2,305	972	731	9	2	499	302	104
- Addiction medicine (multidisciplinary)	111	43	23	24	0	0	5	5	5
- Addiction psychiatry	36	15	7	12	0	0	3	4	2
- Child and adolescent psychiatry	434	323	121	84	1	0	44	30	3
- Forensic psychiatry	54	16	8	7	0	0	6	2	2
- Geriatric psychiatry	21	8	5	4	0	0	0	1	1
- Consultation-liaison psychiatry	54	34	10	6	0	0	7	5	0
Radiation oncology	341	209	50	62	0	1	36	28	9
Radiology-diagnostic	2,375	1,331	371	207	6	3	251	165	61
- Abdominal radiology	12	21	3	1	0	0	1	0	18
- Musculoskeletal radiology	13	10	1	3	0	0	2	1	6
- Neuroendovascular intervention	3	2	1	0	0	0	1	0	1
- Neuroradiology	149	83	18	11	2	0	11	14	21
- Nuclear radiology	6	4	0	0	0	0	0	1	4
- Pediatric radiology	27	10	5	3	0	0	1	4	8
Interventional radiology - independent	72	46	13	8	0	0	7	10	6
Interventional radiology - integrated	420	222	51	37	2	0	43	33	3
Surgery	5,275	1,971	1,147	617	9	10	524	354	167
- Complex general surgical oncology	72	30	12	8	0	0	5	5	4
- Hand surgery	4	0	1	0	0	0	0	1	3
- Pediatric surgery	64	8	10	5	0	0	1	1	0
- Surgical critical care	226	56	38	22	0	0	17	11	4
- Vascular surgery - independent	161	59	23	7	1	0	9	17	4
Vascular surgery - integrated	196	134	51	29	0	0	27	17	4
Thoracic surgery - independent	124	56	27	22	0	1	14	8	2
- Congenital cardiac surgery	8	0	2	1	0	0	0	0	0
Thoracic surgery - integrated	138	72	19	10	0	0	11	9	5
Urology	1,029	417	200	121	3	1	97	48	18
- Urogynecology and reconstructive pelvic surgery	21	10	0	5	0	0	1	1	2
- Pediatric urology	24	9	0	0	0	0	2	1	3
Transitional year	843	595	237	142	0	3	101	80	69
Internal medicine/Pediatrics	830	315	143	148	2	1	74	33	9
Health care administration, leadership, and management	2	2	0	0	0	0	0	0	0

Notes: Pipeline specialties are highlighted. Unknown ethnicity includes both unknown and blank, while 'Other' indicates a known ethnicity other than the ones available for selection.

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

TABLE C.24

## Number of Active Female Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
OVERALL	35,159	24,518	8,524	6,663	82	30	3,939	2,510	1,208
TOTAL PIPELINE	28,716	19,392	7,032	5,659	71	27	3,370	1,979	976
Allergy and immunology	68	100	18	17	0	0	8	8	3
Anesthesiology	1,219	870	259	307	1	0	159	81	30
- Adult cardiothoracic anesthesiology	37	36	7	2	1	0	4	0	2
- Critical care medicine	40	17	5	3	0	0	2	1	2
- Obstetric anesthesiology	16	7	2	1	0	0	1	0	2
- Pain medicine (multidisciplinary)	30	33	11	5	0	0	4	5	4
- Pediatric anesthesiology	45	14	8	4	0	0	3	2	0
- Pediatric cardiac anesthesiology	0	3	0	0	0	0	0	0	1
- Regional anesthesiology and acute pain medicine	15	15	0	2	0	0	1	2	1
Colon and rectal surgery	23	15	2	4	0	0	3	2	0
Dermatology	527	263	96	107	3	1	63	45	7
- Dermatopathology (multidisciplinary)	21	6	1	2	0	0	4	1	1
- Micrographic surgery and dermatologic oncology	24	9	5	4	1	0	3	3	0
- Pediatric dermatology	9	4	1	0	0	0	0	0	0
Emergency medicine	2,396	713	467	307	5	0	239	114	24
- Emergency medical services	23	1	0	3	0	0	1	2	0
- Medical toxicology	30	7	3	2	0	0	0	0	0
- Pediatric emergency medicine	54	19	10	9	0	0	7	2	0
- Sports medicine	3	1	2	2	0	0	0	0	0
- Undersea and hyperbaric medicine	2	1	0	2	1	0	0	1	0
Family medicine	3,584	2,364	970	890	20	11	447	229	137
- Clinical informatics	6	0	0	1	0	0	0	0	0
- Geriatric medicine	8	4	4	1	0	0	1	0	0
- Hospice and palliative medicine (multidisciplinary)	158	89	23	17	1	0	6	4	2
- Sports medicine	53	24	10	5	0	0	5	1	1
Internal medicine	4,717	6,682	1,571	1,186	10	2	618	562	382
- Adult congenital heart disease	4	5	1	2	0	0	0	0	2
- Advanced heart failure and transplant cardiology	11	15	5	3	0	0	1	0	4
- Cardiovascular disease	376	485	92	87	0	0	38	46	14
- Clinical cardiac electrophysiology	15	24	1	1	0	0	2	2	3
- Clinical informatics	9	12	0	1	0	0	0	0	1
- Critical care medicine	52	55	4	7	1	0	3	6	0
- Endocrinology, diabetes, and metabolism	131	259	73	20	0	0	10	30	11
- Gastroenterology	299	356	96	57	1	0	23	33	8
- Geriatric medicine	38	75	22	16	0	0	5	10	6
- Hematology and medical oncology	347	490	63	59	0	0	34	47	10
- Infectious disease	148	135	49	19	0	0	19	20	10
- Interventional cardiology	18	31	4	4	0	0	5	1	3
- Interventional pulmonology	3	2	2	0	0	0	0	0	0
- Medical oncology	0	2	0	0	0	0	0	0	0
- Nephrology	63	182	32	22	2	0	12	18	10
- Pulmonary disease	3	12	5	3	0	0	0	1	0
- Pulmonary disease and critical care medicine	388	372	97	41	1	0	31	39	8
- Rheumatology	119	176	41	13	0	0	12	10	6
- Sleep medicine (multidisciplinary)	37	65	9	5	0	0	4	3	3
- Transplant hepatology	4	10	3	2	0	0	1	2	0
Medical genetics and genomics	18	8	5	0	1	0	1	2	0
- Medical biochemical genetics	9	1	1	0	1	0	1	0	0
- Molecular genetic pathology (multidisciplinary)	11	7	2	2	0	0	0	2	2
Clinical biochemical genetics	0	0	1	0	0	0	0	0	1
Laboratory genetics and genomics	4	6	1	0	0	0	0	0	10
Neurological surgery	214	107	36	30	0	0	35	16	2
- Neuroendovascular intervention	1	0	0	0	0	0	0	0	0

TABLE C.24 *Continued*

## Number of Active Female Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
Neurology	740	714	195	108	2	1	87	86	24
- Clinical neurophysiology	30	28	8	4	0	0	3	6	4
- Epilepsy	35	38	10	1	0	0	3	4	2
- Neurocritical care (multidisciplinary)	26	31	12	1	0	0	3	5	3
- Neuroendovascular intervention	1	0	0	1	0	0	0	0	0
- Neurodevelopmental disabilities	14	6	2	2	0	0	3	1	0
- Neuromuscular medicine	20	15	4	1	0	0	4	1	1
- Vascular neurology	25	38	8	3	0	1	3	3	0
Child neurology	152	88	37	18	0	1	16	8	3
Nuclear medicine	8	12	4	1	0	0	1	2	4
Obstetrics and gynecology	2,944	826	613	611	8	1	300	113	34
- Urogynecology and reconstructive pelvic surgery	87	26	14	10	0	0	7	2	0
- Gynecologic oncology	121	42	18	11	0	0	11	3	1
- Maternal-fetal medicine	213	57	28	31	0	0	15	10	3
- Reproductive endocrinology and infertility	74	32	13	15	0	0	7	5	2
- Complex family planning	36	15	5	6	0	0	1	1	1
Ophthalmology	278	302	58	45	0	0	31	34	14
- Ophthalmic plastic and reconstructive surgery	0	3	0	1	0	0	0	1	0
Orthopaedic surgery	680	157	84	92	1	1	58	23	7
- Adult reconstructive orthopaedics	3	0	0	0	0	0	0	0	0
- Foot and ankle orthopaedics	0	1	0	1	0	0	0	0	0
- Hand surgery	38	8	0	2	0	0	4	1	2
- Musculoskeletal oncology	3	1	1	0	0	0	0	0	0
- Orthopaedic sports medicine	23	2	0	1	0	0	1	0	0
- Orthopaedic surgery of the spine	0	0	0	0	0	0	0	0	0
- Orthopaedic trauma	7	1	0	0	0	0	0	0	0
- Pediatric orthopaedics	7	3	0	0	0	0	0	0	0
Osteopathic neuromusculoskeletal medicine	20	8	0	1	0	0	4	0	1
Otolaryngology - head and neck surgery	436	233	68	42	1	0	49	18	6
- Neurotology	6	5	1	0	0	0	0	1	0
- Pediatric otolaryngology	9	4	1	3	0	0	1	0	0
Pathology-anatomic and clinical	541	399	131	86	0	0	63	54	39
- Blood banking/transfusion medicine	11	6	2	4	0	0	0	0	0
- Clinical informatics	3	2	0	0	0	0	0	1	0
- Chemical pathology	0	0	0	0	0	0	0	0	0
- Cytopathology	25	25	11	4	0	0	2	2	1
- Forensic pathology	23	4	2	2	0	0	0	1	0
- Hematopathology	14	24	5	4	0	0	4	2	2
- Medical microbiology	2	1	2	1	0	0	1	0	0
- Neuropathology	12	9	4	1	0	0	1	1	0
- Pediatric pathology	4	3	2	0	0	0	0	0	1
- Selective pathology	32	35	8	4	1	0	3	2	2
Pediatrics	3,403	1,812	921	563	5	1	342	178	137
- Adolescent medicine	37	17	6	13	0	0	3	1	0
- Child abuse pediatrics	19	8	3	6	0	0	0	3	0
- Clinical informatics	3	5	0	1	0	0	0	0	0
- Developmental-behavioral pediatrics	48	26	13	7	0	0	0	2	2
- Neonatal-perinatal medicine	309	159	65	56	0	0	24	17	5
- Pediatric cardiology	138	78	26	13	0	0	11	10	0
- Pediatric critical care medicine	284	84	39	23	0	0	15	7	2
- Pediatric emergency medicine	196	57	29	36	0	0	16	5	0
- Pediatric endocrinology	96	49	20	10	0	0	4	11	6
- Pediatric gastroenterology	76	81	37	18	0	0	17	10	0
- Pediatric hematology/oncology	187	73	29	19	0	0	11	10	4
- Pediatric infectious diseases	50	22	12	4	0	0	9	1	4

TABLE C.24 *Continued*

## Number of Active Female Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
- Pediatric nephrology	45	24	15	4	0	0	1	6	2
- Pediatric pulmonology	52	40	25	6	0	1	6	3	1
- Pediatric rheumatology	42	15	12	5	0	0	3	4	0
- Sports medicine	5	1	2	0	0	0	0	0	0
- Pediatric transplant hepatology	7	5	1	0	0	0	0	0	0
- Pediatric hospital medicine	109	50	19	7	0	0	3	6	1
Physical medicine and rehabilitation	315	187	57	53	0	0	40	12	2
- Brain injury medicine	7	4	1	0	0	0	1	0	1
- Neuromuscular medicine	0	0	0	0	0	0	0	0	0
- Spinal cord injury medicine	8	3	2	1	0	0	0	0	0
- Pediatric rehabilitation medicine	15	4	1	0	0	0	2	0	0
- Sports medicine	10	4	2	1	0	0	0	2	0
Plastic surgery	31	16	7	6	0	0	7	3	0
Plastic Surgery - integrated	324	142	65	39	1	0	43	14	3
- Craniofacial surgery	1	1	1	0	0	0	0	0	0
- Hand surgery	7	3	0	2	0	0	0	2	0
Public health and general preventive medicine	32	32	7	24	0	0	6	3	0
- Undersea and hyperbaric medicine	0	1	0	0	0	0	0	0	0
Aerospace medicine	5	1	1	0	0	0	1	0	0
Occupational and environmental medicine	12	11	3	4	0	0	3	2	1
Psychiatry	1,746	1,303	526	477	6	0	255	144	33
- Addiction medicine (multidisciplinary)	60	27	8	13	0	0	2	1	3
- Addiction psychiatry	12	6	4	6	0	0	1	1	2
- Child and adolescent psychiatry	233	214	75	60	0	0	28	17	0
- Forensic psychiatry	25	6	5	3	0	0	4	0	1
- Geriatric psychiatry	14	5	4	2	0	0	0	0	0
- Consultation-liaison psychiatry	23	18	4	4	0	0	5	1	0
Radiation oncology	127	82	17	28	0	0	14	6	2
Radiology-diagnostic	590	453	104	86	2	0	81	54	23
- Abdominal radiology	3	10	2	1	0	0	0	0	6
- Musculoskeletal radiology	2	4	0	0	0	0	1	1	1
- Neuroendovascular intervention	0	0	1	0	0	0	0	0	0
- Neuroradiology	19	20	6	0	0	0	6	4	4
- Nuclear radiology	1	2	0	0	0	0	0	0	0
- Pediatric radiology	9	3	1	1	0	0	0	1	3
Interventional radiology - independent	12	6	3	1	0	0	1	1	0
Interventional radiology - integrated	91	61	8	9	0	0	14	9	1
Surgery	2,581	1,099	535	337	3	6	287	124	52
- Complex general surgical oncology	36	14	6	3	0	0	1	2	0
- Hand surgery	2	0	1	0	0	0	0	0	0
- Pediatric surgery	38	3	5	3	0	0	1	1	0
- Surgical critical care	119	27	15	12	0	0	10	3	1
- Vascular surgery - independent	58	20	5	5	0	0	3	5	2
Vascular surgery - integrated	74	51	22	11	0	0	11	11	2
Thoracic surgery - independent	32	14	10	4	0	0	6	2	1
- Congenital cardiac surgery	3	0	0	1	0	0	0	0	0
Thoracic surgery - integrated	53	22	7	3	0	0	4	6	0
Urology	349	162	66	68	1	1	40	9	2
- Urogynecology and reconstructive pelvic surgery	15	9	0	4	0	0	1	1	0
- Pediatric urology	12	2	0	0	0	0	1	0	1
Transitional year	316	260	103	86	0	1	42	34	23
Internal medicine/Pediatrics	497	206	89	119	1	1	50	16	4
Health care administration, leadership, and management	1	1	0	0	0	0	0	0	0

Notes: Pipeline specialties are highlighted. Unknown ethnicity includes both unknown and blank, while 'Other' indicates a known ethnicity other than the ones available for selection.

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

TABLE C.25

## Number of Active Male Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
OVERALL	39,267	21,709	8,613	4,584	77	45	3,937	3,389	1,313
TOTAL PIPELINE	31,713	16,735	7,059	3,763	67	39	3,284	2,609	1,026
Allergy and immunology	64	28	12	2	0	0	4	10	0
Anesthesiology	2,557	1,117	464	247	4	1	255	137	53
- Adult cardiothoracic anesthesiology	89	42	11	8	2	0	14	3	4
- Critical care medicine	70	20	9	4	0	0	2	1	0
- Obstetric anesthesiology	9	2	0	1	0	0	0	1	0
- Pain medicine (multidisciplinary)	133	117	24	22	0	0	8	15	4
- Pediatric anesthesiology	39	14	2	4	0	0	5	4	3
- Pediatric cardiac anesthesiology	5	1	0	1	0	0	0	0	0
- Regional anesthesiology and acute pain medicine	20	10	2	2	0	0	5	3	0
Colon and rectal surgery	48	8	5	1	0	0	2	1	2
Dermatology	294	161	55	21	0	0	26	26	8
- Dermatopathology (multidisciplinary)	21	8	3	0	0	0	2	1	0
- Micrographic surgery and dermatologic oncology	31	8	2	1	0	0	2	2	2
- Pediatric dermatology	2	1	0	0	0	0	0	0	0
Emergency medicine	3,255	816	611	269	6	2	278	171	23
- Emergency medical services	55	2	9	6	0	0	1	0	1
- Medical toxicology	44	7	6	0	0	1	5	1	1
- Pediatric emergency medicine	30	13	7	0	0	0	1	0	0
- Sports medicine	6	2	2	1	0	0	2	0	0
- Undersea and hyperbaric medicine	4	0	2	1	0	0	0	0	1
Family medicine	3,204	1,629	787	454	18	6	384	199	106
- Clinical informatics	9	4	1	1	0	0	1	1	0
- Geriatric medicine	5	2	0	2	0	0	0	1	0
- Hospice and palliative medicine (multidisciplinary)	104	34	18	4	0	0	5	11	2
- Sports medicine	119	34	22	14	0	0	11	5	1
Internal medicine	6,347	6,216	1,948	1,162	10	11	842	939	471
- Adult congenital heart disease	8	4	2	2	0	0	0	0	0
- Advanced heart failure and transplant cardiology	23	12	5	1	0	0	1	6	2
- Cardiovascular disease	1,004	926	219	176	2	0	100	154	38
- Clinical cardiac electrophysiology	129	103	25	16	0	0	6	12	9
- Clinical informatics	22	25	3	1	0	0	1	3	1
- Critical care medicine	99	87	18	13	0	0	28	11	2
- Endocrinology, diabetes, and metabolism	77	88	38	6	0	0	7	15	2
- Gastroenterology	491	493	110	61	0	1	43	72	7
- Geriatric medicine	31	39	8	4	0	0	1	4	1
- Hematology and medical oncology	512	486	79	59	0	0	49	50	12
- Infectious disease	196	89	57	15	0	0	16	13	10
- Interventional cardiology	101	114	17	15	0	1	14	24	10
- Interventional pulmonology	9	7	4	1	0	0	0	4	2
- Medical oncology	2	1	0	0	0	0	0	0	0
- Nephrology	153	207	65	27	0	0	17	25	21
- Pulmonary disease	10	20	2	1	0	0	3	1	1
- Pulmonary disease and critical care medicine	672	439	132	64	0	0	57	84	18
- Rheumatology	93	78	24	4	0	0	7	5	2
- Sleep medicine (multidisciplinary)	44	47	12	1	0	0	2	4	1
- Transplant hepatology	9	7	1	0	0	0	1	0	1
Medical genetics and genomics	11	7	3	0	0	0	0	1	1
- Medical biochemical genetics	3	1	0	1	0	0	0	0	0
- Molecular genetic pathology (multidisciplinary)	17	9	3	0	0	0	1	1	5
Clinical biochemical genetics	0	0	0	1	0	0	0	0	1
Laboratory genetics and genomics	2	1	1	0	0	0	0	0	10
Neurological surgery	565	293	117	66	1	1	56	59	10
- Neuroendovascular intervention	0	1	0	0	0	0	0	0	0

TABLE C.25 *Continued*

## Number of Active Male Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
Neurology	824	570	218	75	1	2	91	103	25
- Clinical neurophysiology	39	15	9	2	0	0	4	4	1
- Epilepsy	41	24	4	1	0	0	3	3	2
- Neurocritical care (multidisciplinary)	40	43	11	7	0	0	6	1	3
- Neuroendovascular intervention	1	1	0	0	0	0	0	0	0
- Neurodevelopmental disabilities	5	0	0	0	0	0	3	0	0
- Neuromuscular medicine	20	8	2	0	0	0	3	4	1
- Vascular neurology	32	29	10	10	0	0	8	14	2
Child neurology	86	40	22	4	0	0	12	5	4
Nuclear medicine	14	9	5	2	0	0	0	3	5
Obstetrics and gynecology	408	76	104	35	2	2	28	28	3
- Urogynecology and reconstructive pelvic surgery	14	7	4	2	0	0	1	1	0
- Gynecologic oncology	30	11	3	2	0	0	4	1	2
- Maternal-fetal medicine	49	16	11	5	0	0	3	4	0
- Reproductive endocrinology and infertility	23	3	3	1	0	0	2	4	0
- Complex family planning	1	0	0	0	0	0	0	0	0
Ophthalmology	516	282	71	61	0	0	52	22	15
- Ophthalmic plastic and reconstructive surgery	0	0	0	0	0	0	0	0	0
Orthopaedic surgery	2,279	485	303	189	3	4	144	79	20
- Adult reconstructive orthopaedics	26	10	6	2	0	0	2	2	2
- Foot and ankle orthopaedics	6	1	0	1	0	0	1	1	1
- Hand surgery	69	15	8	4	0	0	3	5	2
- Musculoskeletal oncology	4	1	0	1	0	0	0	0	2
- Orthopaedic sports medicine	133	20	12	5	0	0	7	6	4
- Orthopaedic surgery of the spine	14	4	2	3	0	0	0	1	1
- Orthopaedic trauma	8	2	0	0	0	0	1	0	0
- Pediatric orthopaedics	16	3	0	0	0	0	0	1	1
Osteopathic neuromusculoskeletal medicine	39	11	3	0	1	0	0	5	0
Otolaryngology - head and neck surgery	581	231	80	54	1	0	46	30	4
- Neurootology	12	8	0	1	0	0	3	1	0
- Pediatric otolaryngology	6	2	1	0	0	0	0	0	1
Pathology-anatomic and clinical	467	253	116	75	0	0	54	52	29
- Blood banking/transfusion medicine	11	5	2	3	0	0	0	1	1
- Clinical informatics	4	4	2	2	0	0	0	1	0
- Chemical pathology	0	0	1	0	0	0	0	0	0
- Cytopathology	18	7	5	2	0	0	1	2	1
- Forensic pathology	18	2	2	1	0	0	1	0	0
- Hematopathology	32	18	5	7	0	0	2	4	1
- Medical microbiology	0	1	1	0	0	0	0	0	0
- Neuropathology	16	3	3	1	0	0	2	2	0
- Pediatric pathology	2	4	1	0	0	0	0	0	1
- Selective pathology	39	34	5	2	0	0	3	7	5
Pediatrics	1,204	515	290	127	1	0	92	84	61
- Adolescent medicine	12	5	3	1	0	0	0	0	0
- Child abuse pediatrics	2	6	2	0	0	0	0	0	0
- Clinical informatics	9	7	2	0	0	0	1	1	0
- Developmental-behavioral pediatrics	10	2	2	0	0	0	0	0	0
- Neonatal-perinatal medicine	90	52	34	13	0	0	6	10	1
- Pediatric cardiology	136	48	30	9	0	0	5	8	3
- Pediatric critical care medicine	113	32	16	3	0	0	6	6	0
- Pediatric emergency medicine	80	22	21	7	1	0	5	1	0
- Pediatric endocrinology	33	2	8	0	0	0	0	1	1
- Pediatric gastroenterology	50	29	18	5	0	0	3	1	2
- Pediatric hematology/oncology	84	27	12	5	0	0	7	6	3
- Pediatric infectious diseases	40	10	10	1	1	0	4	2	1

TABLE C.25 *Continued*

## Number of Active Male Residents by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
- Pediatric nephrology	20	9	3	4	0	0	2	3	0
- Pediatric pulmonology	26	12	7	2	0	0	4	1	2
- Pediatric rheumatology	7	5	2	0	0	0	3	2	1
- Sports medicine	11	5	3	1	0	0	0	0	0
- Pediatric transplant hepatology	1	0	1	0	0	0	0	0	0
- Pediatric hospital medicine	21	13	5	0	0	0	2	0	0
Physical medicine and rehabilitation	548	305	125	66	1	0	67	22	4
- Brain injury medicine	5	6	1	2	0	0	0	0	0
- Neuromuscular medicine	0	0	0	0	0	0	0	0	0
- Spinal cord injury medicine	7	3	0	0	0	0	1	0	0
- Pediatric rehabilitation medicine	2	1	0	0	0	0	0	1	0
- Sports medicine	13	5	4	2	0	0	0	2	0
Plastic surgery	67	22	15	6	0	0	9	4	1
Plastic Surgery - integrated	302	115	73	16	0	0	32	24	8
- Craniofacial surgery	2	0	0	0	0	0	0	0	0
- Hand surgery	11	3	1	0	0	0	0	0	0
Public health and general preventive medicine	30	12	8	5	0	0	7	3	0
- Undersea and hyperbaric medicine	0	2	0	0	0	0	0	0	0
Aerospace medicine	22	1	2	1	0	0	0	0	0
Occupational and environmental medicine	24	19	5	4	0	0	4	4	0
Psychiatry	1,790	982	441	251	3	2	237	156	39
- Addiction medicine (multidisciplinary)	50	16	15	10	0	0	2	4	1
- Addiction psychiatry	24	9	3	6	0	0	2	3	0
- Child and adolescent psychiatry	198	109	46	24	1	0	15	13	2
- Forensic psychiatry	29	10	3	4	0	0	2	2	0
- Geriatric psychiatry	7	3	1	1	0	0	0	1	1
- Consultation-liaison psychiatry	31	16	6	2	0	0	2	4	0
Radiation oncology	212	127	33	33	0	1	22	21	3
Radiology-diagnostic	1,783	877	267	121	4	3	170	110	32
- Abdominal radiology	8	11	1	0	0	0	1	0	3
- Musculoskeletal radiology	10	6	1	3	0	0	1	0	2
- Neuroendovascular intervention	3	2	0	0	0	0	1	0	1
- Neuroradiology	129	61	11	11	2	0	5	9	8
- Nuclear radiology	4	2	0	0	0	0	0	1	3
- Pediatric radiology	17	7	4	2	0	0	1	3	4
Interventional radiology - independent	60	40	10	7	0	0	6	9	5
Interventional radiology - integrated	329	161	43	28	2	0	29	24	2
Surgery	2,684	868	611	278	6	4	237	226	81
- Complex general surgical oncology	36	16	6	5	0	0	4	3	3
- Hand surgery	2	0	0	0	0	0	0	1	2
- Pediatric surgery	26	5	5	2	0	0	0	0	0
- Surgical critical care	107	29	23	10	0	0	7	8	2
- Vascular surgery - independent	103	39	18	2	1	0	6	12	2
Vascular surgery - integrated	120	83	29	18	0	0	16	6	2
Thoracic surgery - independent	92	42	17	18	0	1	8	6	1
- Congenital cardiac surgery	5	0	2	0	0	0	0	0	0
Thoracic surgery - integrated	85	50	12	7	0	0	7	3	4
Urology	678	253	134	53	2	0	57	38	6
- Urogynecology and reconstructive pelvic surgery	6	1	0	1	0	0	0	0	1
- Pediatric urology	12	7	0	0	0	0	1	1	0
Transitional year	526	334	132	56	0	2	59	46	26
Internal medicine/Pediatrics	328	109	54	28	1	0	24	16	1
Health care administration, leadership, and management	1	1	0	0	0	0	0	0	0

Notes: Pipeline specialties are highlighted. Unknown ethnicity includes both unknown and blank, while 'Other' indicates a known ethnicity other than the ones available for selection.

Source: The sex and race/ethnicity reported since 2020-2021 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

**TABLE C.26****Race/Ethnicity (Alone and In Combination) of Active Residents**

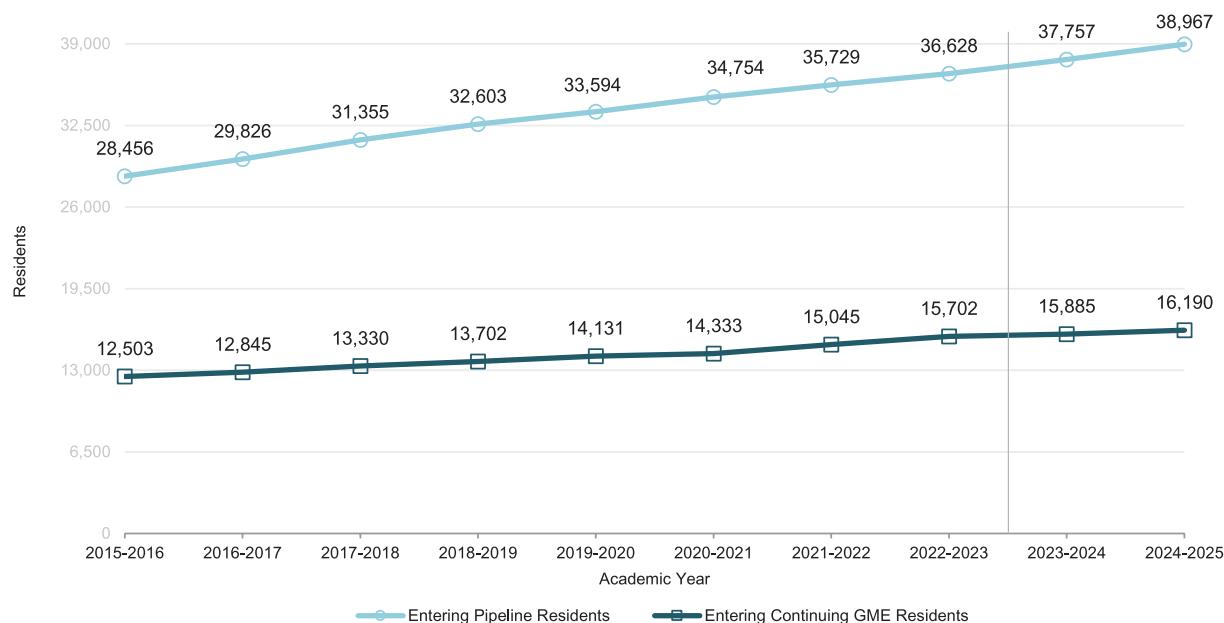
Active Residents Race/Ethnicity		2024-2025
American Indian or Alaskan Native	Alone	160
	In Combination	903
	Total (Alone or In Combination)	1,063
Asian	Alone	46,372
	In Combination	4,840
	Total (Alone or In Combination)	51,212
Black or African American	Alone	11,291
	In Combination	1,765
	Total (Alone or In Combination)	13,056
Hispanic, Latino, or of Spanish Origin	Alone	10,797
	In Combination	6,432
	Total (Alone or In Combination)	17,229
Native Hawaiian or Other Pacific Islander	Alone	78
	In Combination	331
	Total (Alone or In Combination)	409
White	Alone	74,621
	In Combination	11,886
	Total (Alone or In Combination)	86,507
Other	Alone	5,951
	In Combination	3,510
	Total (Alone or In Combination)	9,461
Unknown Race/Ethnicity		3,470
Unduplicated Total Residents		167,083

"Alone" indicates those who selected only one race/ethnicity response. "In Combination" indicates those who selected more than one race/ethnicity response.

Source: The sex and race/ethnicity reported since 2021-2022 academic year and forward are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

FIGURE C.27

## Number of Residents Entering Pipeline and Continuing GME Programs by Academic Year, 2015-2016 to 2024-2025



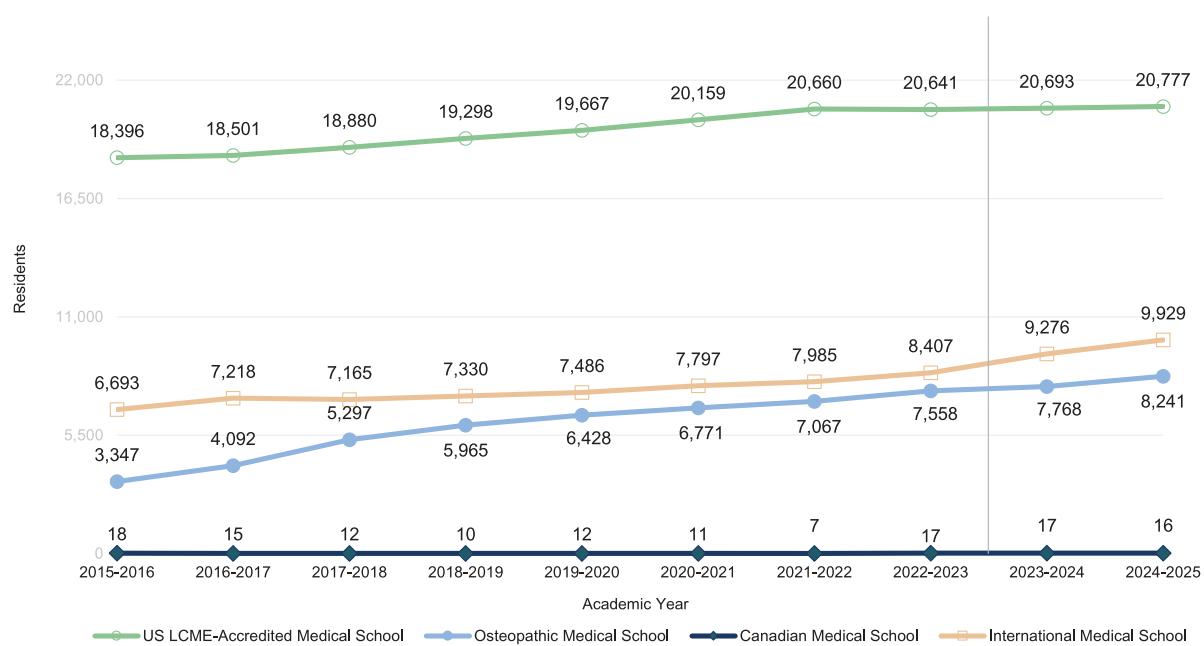
Note: Excluding residents doing prerequisite training for a pipeline specialty program (preliminary and transitional year residents).

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

Abbreviations: GME, graduate medical education.

FIGURE C.28

## Number of Residents Entering the Pipeline by Medical School Type and Academic Year, 2015-2016 to 2024-2025



Note: Not shown are those graduates for which the specific U.S. medical school is unknown.

Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2023-2024 academic year and beyond will reflect these changes.

Abbreviations: LCME, Liaison Committee on Medical Education.

TABLE C.29

## Number of Residents Entering the GME Pipeline by Specialty and Medical School Type

Specialty	Total Residents	Medical School Type									
		US LCME-Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
OVERALL	38,967	20,777	53.3%	9,929	25.5%	8,241	21.1%	16	0.0%	4	0.0%
Anesthesiology	1,927	1,414	73.4%	172	8.9%	339	17.6%	2	0.1%	0	0.0%
Dermatology	574	502	87.5%	11	1.9%	61	10.6%	0	0.0%	0	0.0%
Emergency medicine	3,129	1,501	48.0%	460	14.7%	1,168	37.3%	0	0.0%	0	0.0%
Family medicine	5,387	1,866	34.6%	1,751	32.5%	1,765	32.8%	3	0.1%	2	0.0%
Internal medicine	11,196	4,277	38.2%	4,879	43.6%	2,038	18.2%	1	0.0%	1	0.0%
Medical genetics and genomics	31	10	32.3%	16	51.6%	5	16.1%	0	0.0%	0	0.0%
Neurological surgery	244	221	90.6%	19	7.8%	4	1.6%	0	0.0%	0	0.0%
Neurology	1,098	624	56.8%	312	28.4%	161	14.7%	0	0.0%	1	0.1%
Child neurology	174	111	63.8%	42	24.1%	20	11.5%	1	0.6%	0	0.0%
Nuclear medicine	34	8	23.5%	23	67.6%	2	5.9%	1	2.9%	0	0.0%
Obstetrics and gynecology	1,564	1,149	73.5%	105	6.7%	310	19.8%	0	0.0%	0	0.0%
Ophthalmology	537	488	90.9%	24	4.5%	25	4.7%	0	0.0%	0	0.0%
Orthopaedic surgery	946	809	85.5%	9	1.0%	128	13.5%	0	0.0%	0	0.0%
Osteopathic neuromusculoskeletal medicine	19	1	5.3%	0	0.0%	18	94.7%	0	0.0%	0	0.0%
Otolaryngology- head and neck surgery	394	361	91.6%	8	2.0%	25	6.3%	0	0.0%	0	0.0%
Pathology-anatomic and clinical	645	297	46.0%	248	38.4%	100	15.5%	0	0.0%	0	0.0%
Pediatrics	3,332	1,716	51.5%	945	28.4%	670	20.1%	1	0.0%	0	0.0%
Physical medicine and rehabilitation	488	268	54.9%	30	6.1%	190	38.9%	0	0.0%	0	0.0%
Plastic surgery	64	44	68.8%	12	18.8%	7	10.9%	1	1.6%	0	0.0%
Plastic Surgery - integrated	214	201	93.9%	10	4.7%	3	1.4%	0	0.0%	0	0.0%
Public health and general preventive medicine	88	58	65.9%	13	14.8%	17	19.3%	0	0.0%	0	0.0%
Aerospace medicine	18	8	44.4%	0	0.0%	10	55.6%	0	0.0%	0	0.0%
Occupational and environmental medicine	49	22	44.9%	13	26.5%	14	28.6%	0	0.0%	0	0.0%
Psychiatry	2,360	1,439	61.0%	392	16.6%	526	22.3%	3	0.1%	0	0.0%
Radiation oncology	193	153	79.3%	31	16.1%	9	4.7%	0	0.0%	0	0.0%
Radiology-diagnostic	1,225	951	77.6%	100	8.2%	174	14.2%	0	0.0%	0	0.0%
Interventional radiology - independent	135	79	58.5%	35	25.9%	21	15.6%	0	0.0%	0	0.0%
Interventional radiology - integrated	180	134	74.4%	20	11.1%	25	13.9%	1	0.6%	0	0.0%
Surgery	1,783	1,260	70.7%	192	10.8%	331	18.6%	0	0.0%	0	0.0%
Vascular surgery - integrated	102	79	77.5%	13	12.7%	9	8.8%	1	1.0%	0	0.0%
Thoracic surgery - integrated	49	48	98.0%	0	0.0%	1	2.0%	0	0.0%	0	0.0%
Urology	402	341	84.8%	25	6.2%	35	8.7%	1	0.2%	0	0.0%
Internal medicine/Pediatrics	386	337	87.3%	19	4.9%	30	7.8%	0	0.0%	0	0.0%

Abbreviations: GME, graduate medical education; LCME, Liaison Committee on Medical Education.

TABLE C.30

## Hospital-Based Specialty Residents Entering the GME Pipeline by Specialty and State

State Name	State Abbreviation	AN	EM	MG	NM	PTH	GPM	AER	OEM	RO	DR	IRI	IRInd	Total
OVERALL	-	1,927	3,129	31	34	645	88	18	49	193	1,225	180	135	7,654
Alabama	AL	21	22	2	0	10	0	8	0	3	18	2	2	88
Alaska	AK	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	AZ	11	57	0	0	5	0	0	0	3	23	3	3	105
Arkansas	AR	13	16	0	0	5	0	0	0	1	7	1	0	43
California	CA	201	310	6	1	63	15	0	7	26	114	16	9	768
Colorado	CO	16	17	0	0	9	1	0	1	2	9	2	1	58
Connecticut	CT	34	37	2	0	15	1	0	2	3	29	3	2	128
Delaware	DE	0	18	0	0	0	0	0	0	0	4	1	1	24
District of Columbia	DC	17	23	1	0	11	0	0	0	2	9	3	3	69
Florida	FL	104	243	2	2	22	0	4	0	6	73	8	13	477
Georgia	GA	24	67	0	1	12	5	0	0	3	25	5	6	148
Hawaii	HI	0	0	0	0	2	0	0	0	0	5	0	0	7
Idaho	ID	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	IL	99	147	1	2	30	1	0	2	8	55	10	5	360
Indiana	IN	30	21	0	0	5	0	0	0	2	11	2	2	73
Iowa	IA	15	16	1	1	3	0	0	0	2	4	0	0	42
Kansas	KS	15	11	0	0	4	0	0	0	1	9	2	1	43
Kentucky	KY	26	25	0	0	7	1	0	0	3	14	0	1	77
Louisiana	LA	34	40	0	0	9	0	0	0	0	19	5	0	107
Maine	ME	8	10	0	0	0	3	0	0	0	3	1	0	25
Maryland	MD	48	23	2	3	20	17	0	7	6	24	5	0	155
Massachusetts	MA	114	72	1	5	44	5	0	6	9	63	9	10	338
Michigan	MI	80	243	1	0	19	3	0	0	7	55	9	4	421
Minnesota	MN	28	31	1	0	10	1	0	1	5	22	3	2	104
Mississippi	MS	10	30	0	0	4	0	0	0	1	7	1	0	53
Missouri	MO	43	50	1	4	15	0	0	0	4	35	5	6	163
Montana	MT	0	0	0	0	0	0	0	0	0	0	0	0	0
Nebraska	NE	10	12	0	0	6	0	0	0	1	9	1	0	39
Nevada	NV	8	29	0	0	0	0	0	0	0	5	0	0	42
New Hampshire	NH	7	6	0	0	3	3	0	0	1	4	2	0	26
New Jersey	NJ	50	120	0	0	11	0	0	2	1	28	1	0	213
New Mexico	NM	6	12	0	0	4	3	0	0	0	8	0	2	35
New York	NY	263	391	1	4	79	11	0	1	24	140	22	12	948
North Carolina	NC	43	86	1	0	18	5	0	1	8	28	7	7	204
North Dakota	ND	0	0	0	0	0	0	0	0	0	0	0	0	0
Ohio	OH	84	171	1	0	26	1	3	2	10	54	7	6	365
Oklahoma	OK	15	35	0	2	3	0	0	0	0	14	0	0	69
Oregon	OR	14	11	0	1	4	0	0	0	2	5	2	2	41
Pennsylvania	PA	98	222	0	0	38	0	0	6	15	72	14	10	475
Puerto Rico	PR	4	5	0	1	2	0	0	0	0	4	0	0	16
Rhode Island	RI	20	21	0	0	4	0	0	0	0	6	1	1	53
South Carolina	SC	24	53	0	0	5	2	0	0	2	11	2	2	101
South Dakota	SD	0	0	0	0	2	0	0	0	0	0	0	0	2
Tennessee	TN	34	47	1	1	17	1	0	2	3	22	3	0	131
Texas	TX	134	218	5	2	60	4	3	4	16	93	9	14	562
Utah	UT	5	12	0	0	6	0	0	3	2	8	1	0	37
Vermont	VT	6	6	0	0	4	0	0	0	0	6	0	0	22
Virginia	VA	31	72	0	0	10	0	0	0	3	25	5	3	149
Washington	WA	36	30	0	2	8	3	0	2	3	18	3	2	107
West Virginia	WV	9	16	0	0	1	0	0	0	1	6	0	0	33
Wisconsin	WI	35	25	1	2	10	2	0	0	4	22	4	3	108
Wyoming	WY	0	0	0	0	0	0	0	0	0	0	0	0	0

Abbreviations: GME, graduate medical education; AN, Anesthesiology; EM, Emergency medicine; MG, Medical genetics and genomics; NM, Nuclear medicine; PTH, Pathology-anatomic and clinical; GPM, Preventive medicine; AER, Aerospace medicine; OEM, Occupational and environmental medicine; RO, Radiation oncology; DR, Radiology-diagnostic; IRI, Interventional radiology - integrated; IRInd for Interventional radiology - independent.

TABLE C.31

## Medical Specialty Residents Entering the GME Pipeline by Specialty and State

State Name	State Abbreviation	D	FM	IM	N	CHN	ONM	PD	PM	P	IP	Total
OVERALL	-	574	5,387	11,196	1,098	174	19	3,332	488	2,360	386	25,014
Alabama	AL	6	104	184	14	2	0	36	4	20	6	376
Alaska	AK	0	12	2	0	0	0	0	0	0	0	14
Arizona	AZ	10	88	172	24	3	0	57	4	25	6	389
Arkansas	AR	3	92	121	4	1	0	23	4	19	5	272
California	CA	50	619	957	86	17	0	324	30	242	20	2,345
Colorado	CO	6	86	89	15	2	0	31	6	23	4	262
Connecticut	CT	10	29	236	19	2	0	44	8	43	4	395
Delaware	DE	0	27	26	0	2	0	24	0	9	5	93
District of Columbia	DC	8	7	111	16	4	0	49	6	27	4	232
Florida	FL	41	262	832	72	3	0	193	43	152	10	1,608
Georgia	GA	11	149	320	18	3	0	64	6	50	0	621
Hawaii	HI	0	19	43	0	0	0	14	0	16	0	92
Idaho	ID	0	44	21	0	0	0	4	0	8	0	77
Illinois	IL	27	248	487	47	6	0	146	20	75	24	1,080
Indiana	IN	0	119	106	10	1	0	35	6	26	14	317
Iowa	IA	6	58	51	8	2	0	22	0	17	0	164
Kansas	KS	5	34	46	5	0	0	4	4	15	3	116
Kentucky	KY	2	54	73	12	5	0	36	6	14	11	213
Louisiana	LA	9	71	174	17	1	0	56	6	39	16	389
Maine	ME	0	35	17	2	0	0	8	0	11	4	77
Maryland	MD	16	27	252	20	4	0	65	17	40	8	449
Massachusetts	MA	21	54	402	49	11	0	82	3	96	12	730
Michigan	MI	27	258	511	47	7	4	127	22	87	29	1,119
Minnesota	MN	15	81	116	17	2	0	37	12	28	10	318
Mississippi	MS	5	61	94	4	2	0	18	0	12	5	201
Missouri	MO	16	84	173	25	9	3	90	6	46	10	462
Montana	MT	0	18	9	0	0	0	0	0	3	0	30
Nebraska	NE	4	47	54	7	0	0	15	4	13	4	148
Nevada	NV	0	46	117	5	0	0	15	6	29	0	218
New Hampshire	NH	3	22	31	5	0	0	7	0	15	0	83
New Jersey	NJ	6	130	493	26	3	0	91	16	84	5	854
New Mexico	NM	4	39	43	8	2	2	21	6	16	0	141
New York	NY	62	319	1,560	144	16	3	454	87	325	23	2,993
North Carolina	NC	17	152	241	20	4	0	78	14	79	18	623
North Dakota	ND	0	30	8	3	0	0	4	0	6	0	51
Ohio	OH	24	228	477	57	13	0	193	17	82	28	1,119
Oklahoma	OK	4	84	52	8	0	0	47	0	27	3	225
Oregon	OR	8	59	87	5	1	0	19	0	12	0	191
Pennsylvania	PA	34	349	631	78	12	0	152	41	107	19	1,423
Puerto Rico	PR	6	26	95	3	1	0	36	6	14	2	189
Rhode Island	RI	4	16	79	7	0	0	16	0	10	4	136
South Carolina	SC	5	143	96	21	1	0	43	1	35	8	353
South Dakota	SD	0	19	9	3	0	0	6	0	9	0	46
Tennessee	TN	9	93	163	18	6	0	72	8	36	18	423
Texas	TX	53	341	786	81	16	2	232	39	175	23	1,748
Utah	UT	4	29	34	8	2	0	29	7	14	3	130
Vermont	VT	2	6	18	5	0	0	6	0	5	0	42
Virginia	VA	11	136	201	16	2	2	87	11	49	4	519
Washington	WA	5	157	134	10	3	0	56	3	23	0	391
West Virginia	WV	3	46	64	16	0	3	21	0	27	6	186
Wisconsin	WI	12	115	98	13	3	0	43	9	25	8	326
Wyoming	WY	0	15	0	0	0	0	0	0	0	0	15

Abbreviations: GME, graduate medical education; D, Dermatology; FM, Family medicine; IM, Internal medicine; N, Neurology; CHN, Child neurology; ONM, Osteopathic neuromusculoskeletal medicine; PD, Pediatrics; PM, Physical medicine and rehabilitation; P, Psychiatry; IP, Internal medicine/Pediatrics.

TABLE C.32

## Surgical Specialty Residents Entering the GME Pipeline by Specialty and State

State Name	State Abbreviation	NS	OBG	OPH	ORS	OTO	PS	PSI	GS	VSI	TSI	U	Total
OVERALL	-	244	1,564	537	946	394	64	214	1,783	102	49	402	6,299
Alabama	AL	3	11	5	12	4	2	2	20	1	0	4	64
Alaska	AK	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	AZ	6	22	6	11	5	0	2	43	1	0	7	103
Arkansas	AR	1	5	4	5	3	0	0	5	1	0	2	26
California	CA	22	133	47	83	39	2	22	130	10	9	32	529
Colorado	CO	3	14	6	7	4	1	2	25	1	0	3	66
Connecticut	CT	1	33	5	10	7	0	3	29	2	0	6	96
Delaware	DE	0	7	0	0	0	0	0	9	0	0	0	16
District of Columbia	DC	3	21	12	8	4	0	4	20	2	0	5	79
Florida	FL	9	76	25	44	12	5	10	116	3	1	15	316
Georgia	GA	5	32	9	15	7	4	2	41	2	1	7	125
Hawaii	HI	0	11	0	5	2	0	0	9	0	0	1	28
Idaho	ID	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	IL	14	68	24	35	17	2	14	64	4	2	20	264
Indiana	IN	2	20	6	6	4	3	2	18	1	1	5	68
Iowa	IA	2	5	6	7	6	1	1	15	1	1	4	49
Kansas	KS	2	15	4	8	4	0	2	17	0	0	4	56
Kentucky	KY	4	14	8	10	7	1	4	19	0	1	6	74
Louisiana	LA	5	28	16	16	10	2	2	33	2	0	10	124
Maine	ME	0	5	0	0	0	0	0	6	1	0	2	14
Maryland	MD	8	31	16	24	10	1	4	35	0	1	7	137
Massachusetts	MA	10	40	19	26	14	5	9	63	5	2	15	208
Michigan	MI	8	100	27	64	21	4	7	103	3	2	21	360
Minnesota	MN	6	14	9	20	9	0	6	25	3	0	8	100
Mississippi	MS	2	6	4	5	3	0	2	10	0	0	2	34
Missouri	MO	5	32	17	26	12	0	8	25	2	0	7	134
Montana	MT	0	0	0	0	0	0	0	0	0	0	0	0
Nebraska	NE	2	9	3	6	3	1	1	12	0	0	4	41
Nevada	NV	0	10	0	6	1	0	1	13	0	0	0	31
New Hampshire	NH	1	4	2	4	1	0	1	4	1	0	2	20
New Jersey	NJ	4	67	5	30	4	1	4	63	4	0	10	192
New Mexico	NM	1	6	3	5	3	0	2	7	0	0	3	30
New York	NY	26	187	70	102	32	4	19	190	14	10	47	701
North Carolina	NC	8	49	14	27	11	0	8	54	3	2	12	188
North Dakota	ND	0	0	0	3	0	0	0	5	0	0	0	8
Ohio	OH	10	91	23	65	22	4	11	84	7	5	19	341
Oklahoma	OK	2	20	5	9	5	2	0	12	0	0	4	59
Oregon	OR	3	8	5	8	3	0	3	15	1	0	4	50
Pennsylvania	PA	17	85	31	69	30	7	11	114	10	4	27	405
Puerto Rico	PR	0	14	4	4	2	0	0	9	0	0	4	37
Rhode Island	RI	2	0	3	6	0	0	2	7	0	0	3	23
South Carolina	SC	2	21	7	13	4	1	3	30	2	2	3	88
South Dakota	SD	0	0	0	0	0	0	0	4	0	0	0	4
Tennessee	TN	6	32	9	19	10	4	2	39	0	0	11	132
Texas	TX	17	131	45	66	25	6	16	135	9	2	26	478
Utah	UT	3	7	4	6	4	1	3	6	0	1	3	38
Vermont	VT	1	3	0	3	1	0	0	4	0	0	1	13
Virginia	VA	7	35	10	18	12	0	8	32	2	1	8	133
Washington	WA	4	17	7	11	7	0	5	23	2	1	6	83
West Virginia	WV	2	10	4	8	3	0	1	18	1	0	4	51
Wisconsin	WI	5	15	8	11	7	0	5	23	1	0	8	83
Wyoming	WY	0	0	0	0	0	0	0	0	0	0	0	0

Abbreviations: GME, graduate medical education; NS, Neurological surgery; OBG, Obstetrics and gynecology; OPH, Ophthalmology; ORS, Orthopaedic surgery; OTO, Otolaryngology - head and neck surgery; PS, Plastic surgery; PSI, Plastic surgery - integrated; GS, Surgery; VSI, Vascular surgery - integrated; TSI, Thoracic surgery - integrated; U, Urology.

TABLE C.33

## Number of Residents Entering GME and the GME Pipeline by Specialty

Specialty	PGY1 Residents	PGY1 Residents as % of Total	PGY1 Residents with No Prior Training	PGY1 Residents with No Prior Training as % of Total	Entering Pipeline Residents	Entering Pipeline Residents as % of Total
OVERALL	40,525	100.0%	38,786	100.0%	38,967	100.0%
Anesthesiology	1,731	4.3%	1,600	4.1%	1,927	4.9%
Dermatology	10	0.0%	0	0.0%	574	1.5%
Emergency medicine	3,129	7.7%	2,938	7.6%	3,129	8.0%
Family medicine	5,387	13.3%	5,165	13.3%	5,387	13.8%
Internal medicine	13,137	32.4%	12,725	32.8%	11,196	28.7%
Medical genetics and genomics	0	0.0%	0	0.0%	31	0.1%
Neurological surgery	244	0.6%	229	0.6%	244	0.6%
Neurology	775	1.9%	729	1.9%	1,098	2.8%
Child neurology	0	0.0%	0	0.0%	174	0.4%
Nuclear medicine	0	0.0%	0	0.0%	34	0.1%
Obstetrics and gynecology	1,589	3.9%	1,517	3.9%	1,564	4.0%
Ophthalmology	226	0.6%	218	0.6%	537	1.4%
Orthopaedic surgery	946	2.3%	907	2.3%	946	2.4%
Osteopathic neuromusculoskeletal medicine	19	0.0%	15	0.0%	19	0.0%
Otolaryngology - head and neck surgery	394	1.0%	386	1.0%	394	1.0%
Pathology-anatomic and clinical	645	1.6%	603	1.6%	645	1.7%
Pediatrics	3,453	8.5%	3,356	8.7%	3,332	8.6%
Physical medicine and rehabilitation	206	0.5%	197	0.5%	488	1.3%
Plastic surgery	0	0.0%	0	0.0%	64	0.2%
Plastic Surgery - integrated	214	0.5%	200	0.5%	214	0.5%
Public health and general preventive medicine	10	0.0%	0	0.0%	88	0.2%
Aerospace medicine	0	0.0%	0	0.0%	18	0.0%
Occupational and environmental medicine	2	0.0%	0	0.0%	49	0.1%
Psychiatry	2,360	5.8%	2,264	5.8%	2,360	6.1%
Radiation oncology	0	0.0%	0	0.0%	193	0.5%
Radiology-diagnostic	0	0.0%	0	0.0%	1,225	3.1%
Interventional radiology - independent	0	0.0%	0	0.0%	135	0.3%
Interventional radiology - integrated	0	0.0%	0	0.0%	180	0.5%
Surgery	3,039	7.5%	2,848	7.3%	1,783	4.6%
Vascular surgery - integrated	102	0.3%	96	0.2%	102	0.3%
Thoracic surgery - integrated	49	0.1%	47	0.1%	49	0.1%
Urology	402	1.0%	381	1.0%	402	1.0%
Transitional year	2,070	5.1%	1,981	5.1%	0	0.0%
Internal medicine/Pediatrics	386	1.0%	384	1.0%	386	1.0%

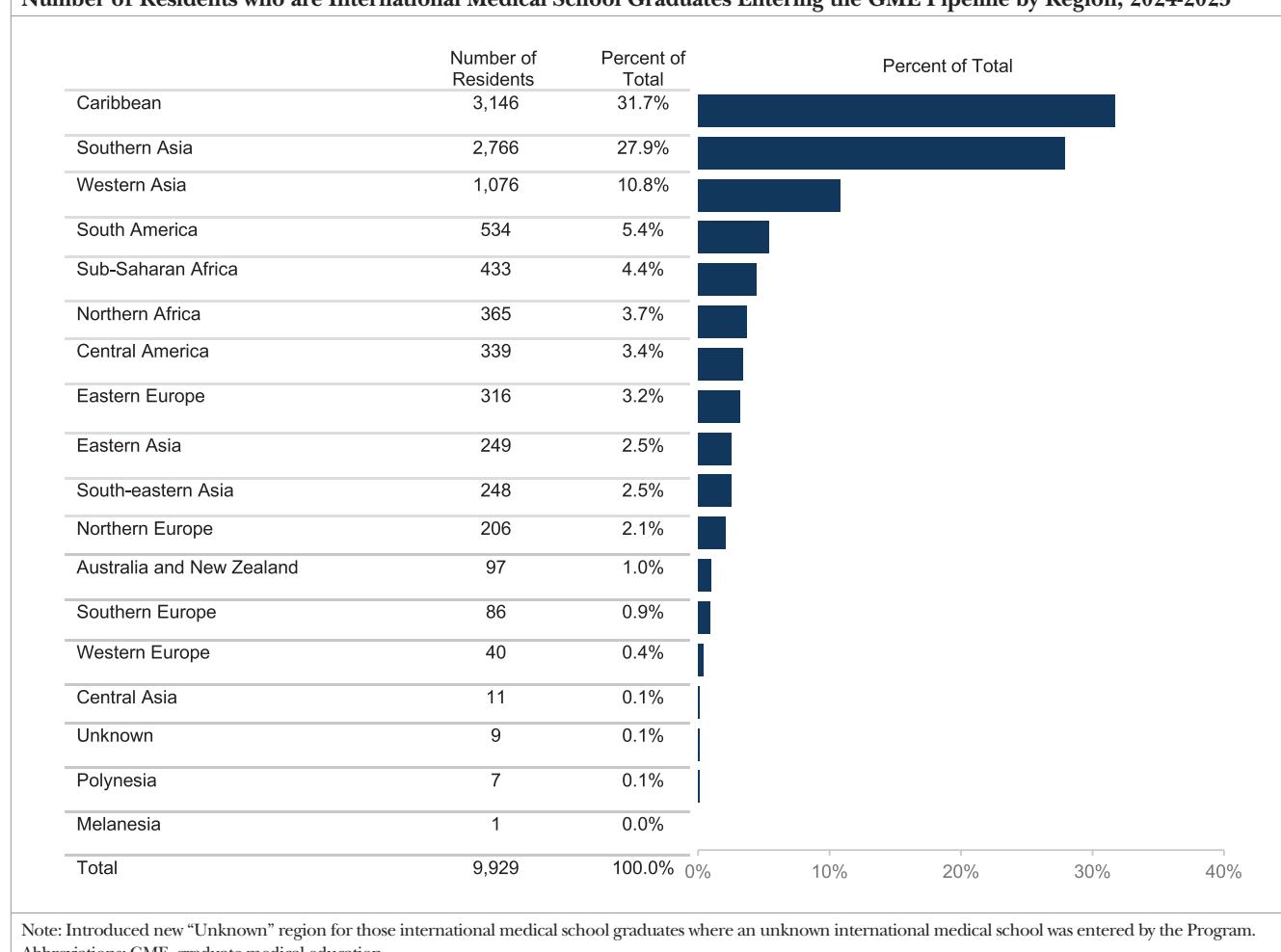
Abbreviations: GME, graduate medical education; PGY1, post graduate year 1.

TABLE C.34

## Number of Residents Entering GME and the GME Pipeline by State

State Name	PGY1 Residents	PGY1 Residents as % of Total	PGY1 Residents with No Prior Training	PGY1 Residents with No Prior Training as % of Total	Entering Pipeline Residents	Entering Pipeline Residents as % of Total
OVERALL	40,525	100.0%	38,786	100.0%	38,967	100.0%
Alabama	548	1.4%	530	1.4%	528	1.4%
Alaska	14	0.0%	13	0.0%	14	0.0%
Arizona	672	1.7%	641	1.7%	597	1.5%
Arkansas	365	0.9%	350	0.9%	341	0.9%
California	3,814	9.4%	3,690	9.5%	3,642	9.3%
Colorado	391	1.0%	380	1.0%	386	1.0%
Connecticut	624	1.5%	601	1.5%	619	1.6%
Delaware	131	0.3%	128	0.3%	133	0.3%
District of Columbia	396	1.0%	387	1.0%	380	1.0%
Florida	2,571	6.3%	2,450	6.3%	2,401	6.2%
Georgia	960	2.4%	904	2.3%	894	2.3%
Hawaii	142	0.4%	132	0.3%	127	0.3%
Idaho	81	0.2%	76	0.2%	77	0.2%
Illinois	1,766	4.4%	1,721	4.4%	1,704	4.4%
Indiana	470	1.2%	454	1.2%	458	1.2%
Iowa	255	0.6%	248	0.6%	255	0.7%
Kansas	213	0.5%	209	0.5%	215	0.6%
Kentucky	391	1.0%	371	1.0%	364	0.9%
Louisiana	636	1.6%	604	1.6%	620	1.6%
Maine	114	0.3%	110	0.3%	116	0.3%
Maryland	762	1.9%	714	1.8%	741	1.9%
Massachusetts	1,282	3.2%	1,247	3.2%	1,276	3.3%
Michigan	1,936	4.8%	1,843	4.8%	1,900	4.9%
Minnesota	501	1.2%	491	1.3%	522	1.3%
Mississippi	323	0.8%	302	0.8%	288	0.7%
Missouri	734	1.8%	699	1.8%	759	1.9%
Montana	33	0.1%	33	0.1%	30	0.1%
Nebraska	226	0.6%	212	0.5%	228	0.6%
Nevada	342	0.8%	311	0.8%	291	0.7%
New Hampshire	126	0.3%	122	0.3%	129	0.3%
New Jersey	1,382	3.4%	1,299	3.3%	1,259	3.2%
New Mexico	207	0.5%	189	0.5%	206	0.5%
New York	4,876	12.0%	4,683	12.1%	4,642	11.9%
North Carolina	1,048	2.6%	997	2.6%	1,015	2.6%
North Dakota	67	0.2%	64	0.2%	59	0.2%
Ohio	1,870	4.6%	1,788	4.6%	1,825	4.7%
Oklahoma	346	0.9%	334	0.9%	353	0.9%
Oregon	290	0.7%	282	0.7%	282	0.7%
Pennsylvania	2,372	5.9%	2,235	5.8%	2,303	5.9%
Puerto Rico	300	0.7%	276	0.7%	242	0.6%
Rhode Island	201	0.5%	198	0.5%	212	0.5%
South Carolina	602	1.5%	567	1.5%	542	1.4%
South Dakota	58	0.1%	54	0.1%	52	0.1%
Tennessee	701	1.7%	659	1.7%	686	1.8%
Texas	2,812	6.9%	2,716	7.0%	2,788	7.2%
Utah	200	0.5%	193	0.5%	205	0.5%
Vermont	73	0.2%	70	0.2%	77	0.2%
Virginia	857	2.1%	817	2.1%	801	2.1%
Washington	608	1.5%	585	1.5%	581	1.5%
West Virginia	289	0.7%	277	0.7%	270	0.7%
Wisconsin	532	1.3%	516	1.3%	517	1.3%
Wyoming	15	0.0%	14	0.0%	15	0.0%

Abbreviations: GME, graduate medical education; PGY1, post graduate year 1.

**FIGURE C.35****Number of Residents who are International Medical School Graduates Entering the GME Pipeline by Region, 2024-2025**

# Graduating Residents and Residents Leaving Prior to Completion

This section summarizes the characteristics of both graduating residents who successfully completed all accredited education, and residents who left their program prior to successful completion. Resident completion status for the 2023-2024 academic year was reported during the fall of the 2024-2025 academic year, therefore, the following data includes only those residents who graduated or left their programs between September 1, 2023 and August 31, 2024.

## Graduating Residents

Of the 52,405 residents graduating from ACGME-accredited programs in the 2023-2024 academic year, 63.0% graduated from a program in a medical specialty or subspecialty, 22.8% graduated from a program in a hospital-based specialty or subspecialty, and 14.3% graduated from a program in a surgical specialty or subspecialty. From the 2014-2015 academic year to the 2023-2024 academic year, there was a 31.6% increase in graduating residents (a 32.7% increase in specialty program graduates and a 29.0% increase in subspecialty program graduates). The specialties with the highest number of graduating residents in the 2023-2024 academic year include:

- Internal medicine (9,976)
- Family medicine (4,823)
- Pediatrics (3,113)
- Emergency medicine (2,909)

International medical school graduates account for 12,999 (24.8%) of all graduating residents.

## Residents Completing Preliminary Education and Training and Transitional Year Graduates

There were 3,103 residents who completed preliminary education and training and 1,969 residents graduating from transitional year programs during the 2023-2024 academic year, for a total of 5,072 residents completing the necessary prerequisite education and training for specialty programs that require a clinical base year. Of the 3,103 preliminary education and training graduates, 1,868 (60.2%) were in internal medicine, 1,115 (35.9%) were in surgery, 109 (3.5%) were in pediatrics, and 11 (0.4%) were in obstetrics

and gynecology. Over the last 10 years, the total number of preliminary graduates has fluctuated, with a high of 3,579 in the 2017-2018 academic year, and a low of 3,103 in 2023-2024. Since 2014-2015, there has been an 85.6% increase in the number of residents completing transitional year programs.

## Geographic Distribution of Graduates

There were approximately 15.26 graduating residents per 100,000 population, including Puerto Rico, during the 2023-2024 academic year (10.87 specialty graduates and 4.40 subspecialty graduates). The following states have the highest total number of graduating residents:

- New York (6,310)
- California (5,010)
- Texas (3,559)
- Pennsylvania (3,314)

The concentration of specialty graduates ranges from 1.62 per 100,000 population in Alaska to 52.83 per 100,000 population in the District of Columbia.

## Residents Leaving Prior to Completion

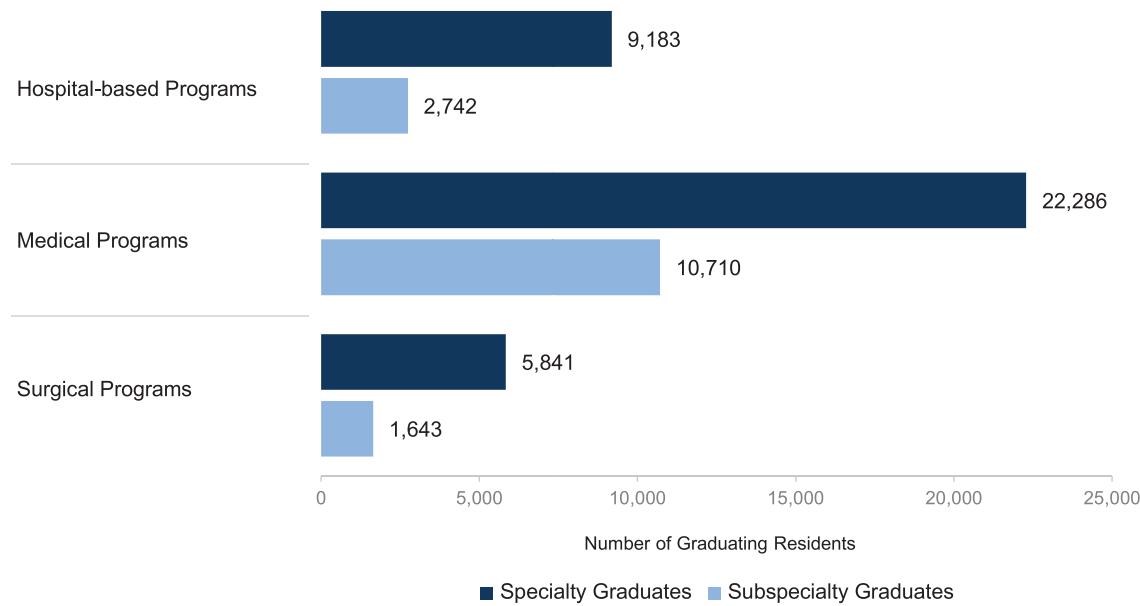
In the 2023-2024 academic year, 2,531 residents left their programs prior to successful completion with statuses of either transferred (48.8%), withdrawn (37.1%), dismissed (12.7%), deceased (1.0%), or unsuccessfully completed program (0.4%). The following specialties have the highest number of transferring residents:

- Psychiatry (443)
- Internal medicine (152)
- Surgery (112)
- Family medicine (105)

Overall, of the 1,181 transfers that occurred among residents in specialty programs during the 2023-2024 academic year, 458 (38.8%) occurred during the first year of the program, 237 (20.1%) occurred during the second year of the program, 443 (37.5%) occurred during the third year of the program, and 42 (3.6%) occurred in the fourth, or fifth year of the program. <sup>18</sup>

**FIGURE D.1**

**Number of Graduating Residents by Specialty Group, 2023-2024 AY**

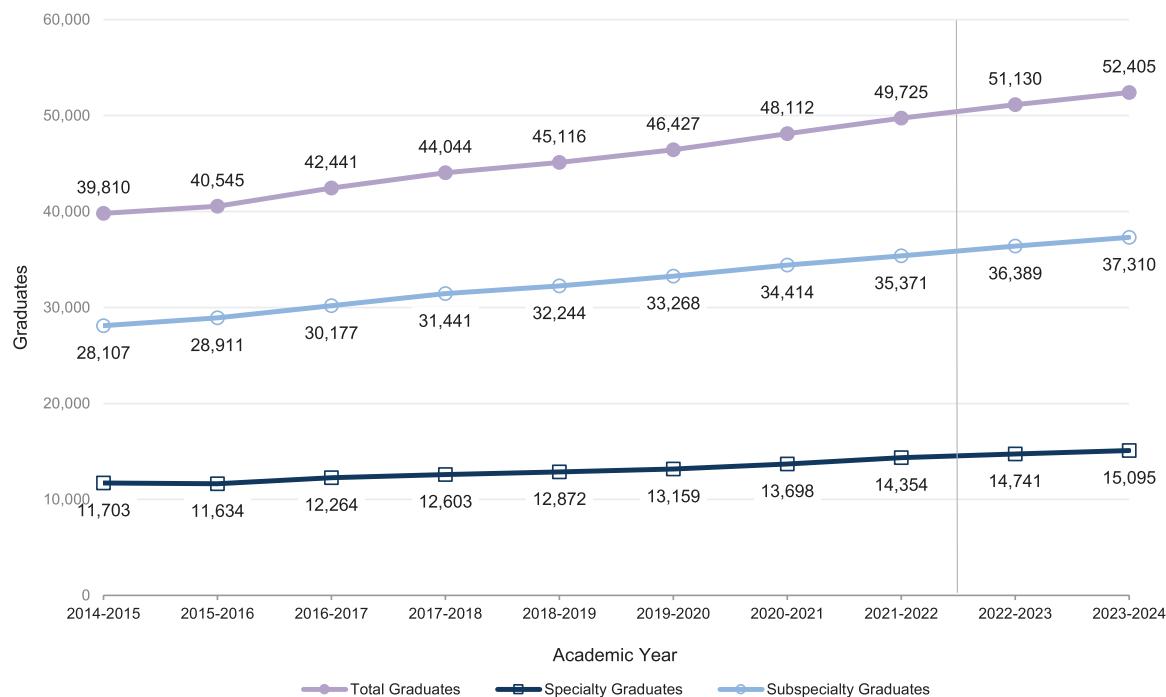


Note: Total number of graduating residents = 52,405.

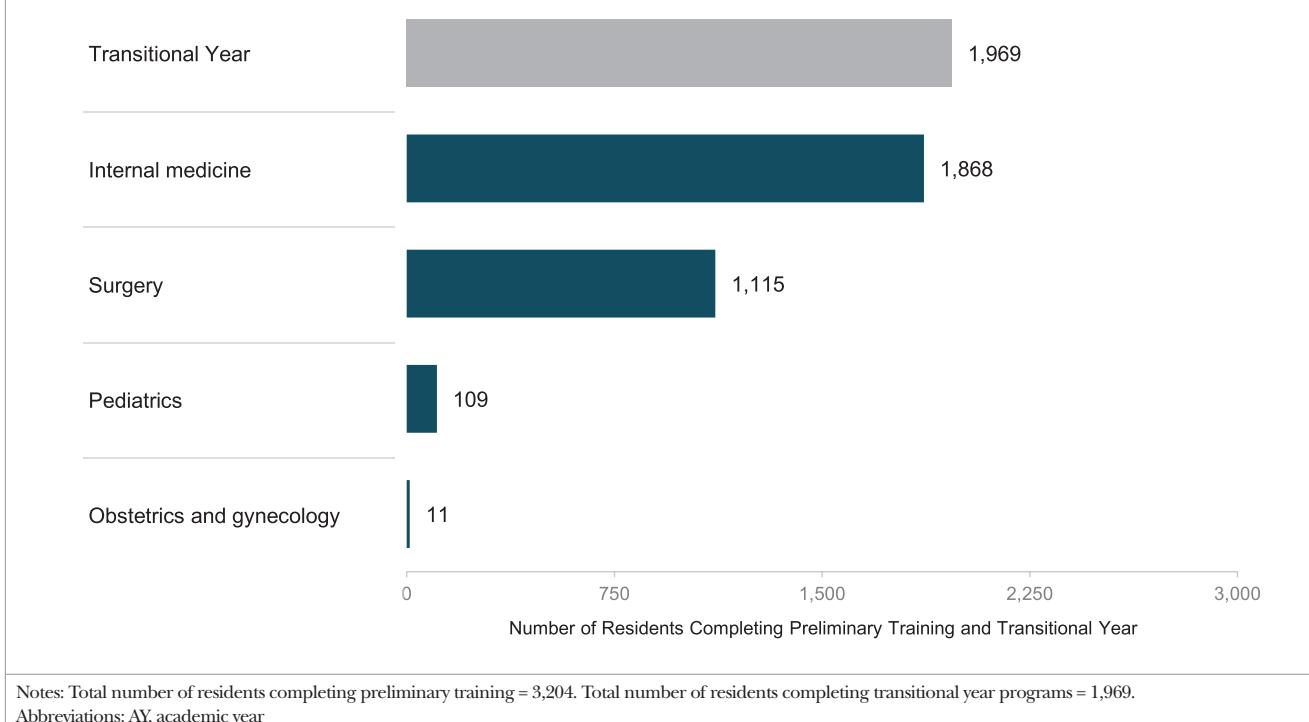
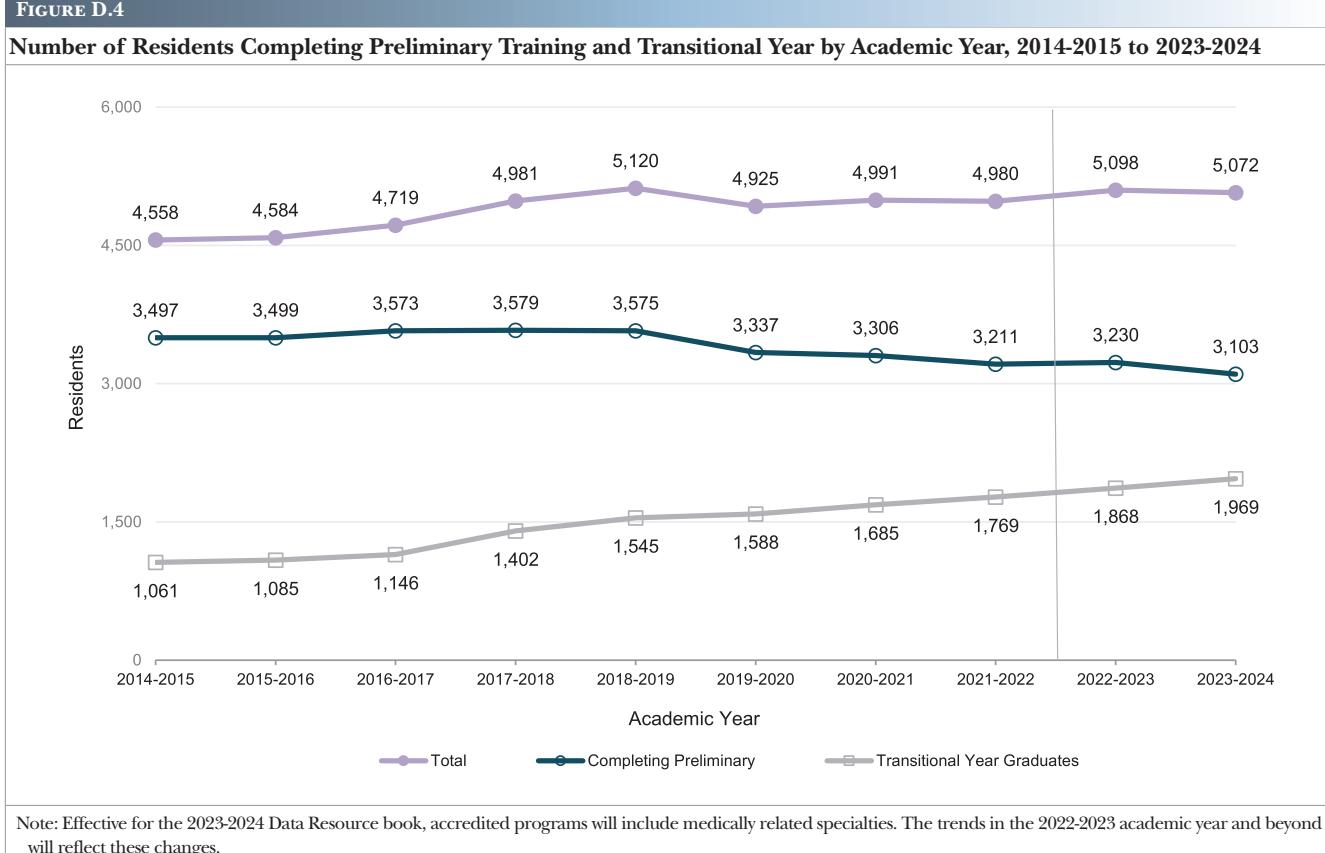
Abbreviations: AY, academic year.

**FIGURE D.2**

**Number of Graduating Residents by Academic Year, 2014-2015 to 2023-2024**



Note: Effective for the 2023-2024 Data Resource book, accredited programs will include medically related specialties. The trends in the 2022-2023 academic year and beyond will reflect these changes.

**FIGURE D.3****Number of Residents Completing Preliminary Training and Transitional Year by Specialty, 2023-2024 AY****FIGURE D.4****Number of Residents Completing Preliminary Training and Transitional Year by Academic Year, 2014-2015 to 2023-2024**

**TABLE D.5**

<b>Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2023-2024 AY</b>				
Specialty	Total Graduates	Percent of Total Graduates	Number of Residents Completing Preliminary Training	Percent of Total Residents Completing Preliminary Training
OVERALL	52,405	100.0%	3,103	100.0%
<b>TOTAL PIPELINE</b>	<b>35,042</b>	<b>66.9%</b>	<b>3,103</b>	<b>100.0%</b>
Allergy and immunology	166	0.3%	0	0.0%
Anesthesiology	1,917	3.7%	0	0.0%
- Adult cardiothoracic anesthesiology	257	0.5%	0	0.0%
- Critical care medicine	193	0.4%	0	0.0%
- Obstetric anesthesiology	60	0.1%	0	0.0%
- Pain medicine (multidisciplinary)	422	0.8%	0	0.0%
- Pediatric anesthesiology	156	0.3%	0	0.0%
- Pediatric cardiac anesthesiology	18	0.0%	0	0.0%
- Regional anesthesiology and acute pain medicine	87	0.2%	0	0.0%
Colon and rectal surgery	111	0.2%	0	0.0%
Dermatology	541	1.0%	0	0.0%
- Dermatopathology (multidisciplinary)	69	0.1%	0	0.0%
- Micrographic surgery and dermatologic oncology	92	0.2%	0	0.0%
- Pediatric dermatology	24	0.0%	0	0.0%
Emergency medicine	2,909	5.6%	0	0.0%
- Emergency medical services	111	0.2%	0	0.0%
- Medical toxicology	51	0.1%	0	0.0%
- Pediatric emergency medicine	52	0.1%	0	0.0%
- Sports medicine	19	0.0%	0	0.0%
- Undersea and hyperbaric medicine	13	0.0%	0	0.0%
Family medicine	4,823	9.2%	0	0.0%
- Clinical informatics	11	0.0%	0	0.0%
- Geriatric medicine	44	0.1%	0	0.0%
- Hospice and palliative medicine (multidisciplinary)	469	0.9%	0	0.0%
- Sports medicine	297	0.6%	0	0.0%
Internal medicine	9,976	19.0%	1,868	60.2%
- Adult congenital heart disease	14	0.0%	0	0.0%
- Advanced heart failure and transplant cardiology	85	0.2%	0	0.0%
- Cardiovascular disease	1,129	2.2%	0	0.0%
- Clinical cardiac electrophysiology	169	0.3%	0	0.0%
- Clinical informatics	33	0.1%	0	0.0%
- Critical care medicine	215	0.4%	0	0.0%
- Endocrinology, diabetes, and metabolism	363	0.7%	0	0.0%
- Gastroenterology	660	1.3%	0	0.0%
- Geriatric medicine	253	0.5%	0	0.0%
- Hematology and medical oncology	704	1.3%	0	0.0%
- Infectious disease	418	0.8%	0	0.0%
- Interventional cardiology	374	0.7%	0	0.0%
- Interventional pulmonology	30	0.1%	0	0.0%
- Medical oncology	3	0.0%	0	0.0%
- Nephrology	451	0.9%	0	0.0%
- Pulmonary disease	25	0.0%	0	0.0%
- Pulmonary disease and critical care medicine	796	1.5%	0	0.0%
- Rheumatology	287	0.5%	0	0.0%
- Sleep medicine (multidisciplinary)	217	0.4%	0	0.0%
- Transplant hepatology	49	0.1%	0	0.0%
Medical genetics and genomics	26	0.0%	0	0.0%
- Medical biochemical genetics	13	0.0%	0	0.0%
- Molecular genetic pathology (multidisciplinary)	61	0.1%	0	0.0%
Clinical biochemical genetics	8	0.0%	0	0.0%
Laboratory genetics and genomics	40	0.1%	0	0.0%
Neurological surgery	211	0.4%	0	0.0%
- Neuroendovascular intervention	3	0.0%	0	0.0%

TABLE D.5 *Continued*

## Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2023-2024 AY

Specialty	Total Graduates	Percent of Total Graduates	Number of Residents Completing Preliminary Training	Percent of Total Residents Completing Preliminary Training
Neurology	943	1.8%	0	0.0%
- Clinical neurophysiology	144	0.3%	0	0.0%
- Epilepsy	150	0.3%	0	0.0%
- Neurocritical care (multidisciplinary)	104	0.2%	0	0.0%
- Neuroendovascular intervention	2	0.0%	0	0.0%
- Neurodevelopmental disabilities	10	0.0%	0	0.0%
- Neuromuscular medicine	94	0.2%	0	0.0%
- Vascular neurology	207	0.4%	0	0.0%
Child neurology	163	0.3%	0	0.0%
Nuclear medicine	38	0.1%	0	0.0%
Obstetrics and gynecology	1,466	2.8%	11	0.4%
- Urogynecology and reconstructive pelvic surgery	50	0.1%	0	0.0%
- Gynecologic oncology	79	0.2%	0	0.0%
- Maternal-fetal medicine	139	0.3%	0	0.0%
- Reproductive endocrinology and infertility	61	0.1%	0	0.0%
- Complex family planning	29	0.1%	0	0.0%
Ophthalmology	512	1.0%	0	0.0%
- Ophthalmic plastic and reconstructive surgery	2	0.0%	0	0.0%
Orthopaedic surgery	866	1.7%	0	0.0%
- Adult reconstructive orthopaedics	53	0.1%	0	0.0%
- Foot and ankle orthopaedics	17	0.0%	0	0.0%
- Hand surgery	164	0.3%	0	0.0%
- Musculoskeletal oncology	17	0.0%	0	0.0%
- Orthopaedic sports medicine	217	0.4%	0	0.0%
- Orthopaedic surgery of the spine	27	0.1%	0	0.0%
- Orthopaedic trauma	18	0.0%	0	0.0%
- Pediatric orthopaedics	35	0.1%	0	0.0%
Osteopathic neuromusculoskeletal medicine	45	0.1%	0	0.0%
Otolaryngology - head and neck surgery	347	0.7%	0	0.0%
- Neurotology	18	0.0%	0	0.0%
- Pediatric otolaryngology	44	0.1%	0	0.0%
Pathology-anatomic and clinical	592	1.1%	0	0.0%
- Blood banking/transfusion medicine	48	0.1%	0	0.0%
- Clinical informatics	11	0.0%	0	0.0%
- Chemical pathology	2	0.0%	0	0.0%
- Cytopathology	105	0.2%	0	0.0%
- Forensic pathology	62	0.1%	0	0.0%
- Hematopathology	127	0.2%	0	0.0%
- Medical microbiology	9	0.0%	0	0.0%
- Neuropathology	28	0.1%	0	0.0%
- Pediatric pathology	16	0.0%	0	0.0%
- Selective pathology	187	0.4%	0	0.0%
Pediatrics	3,113	5.9%	109	3.5%
- Adolescent medicine	29	0.1%	0	0.0%
- Child abuse pediatrics	23	0.0%	0	0.0%
- Clinical informatics	18	0.0%	0	0.0%
- Developmental-behavioral pediatrics	34	0.1%	0	0.0%
- Neonatal-perinatal medicine	280	0.5%	0	0.0%
- Pediatric cardiology	164	0.3%	0	0.0%
- Pediatric critical care medicine	203	0.4%	0	0.0%
- Pediatric emergency medicine	150	0.3%	0	0.0%
- Pediatric endocrinology	78	0.1%	0	0.0%
- Pediatric gastroenterology	110	0.2%	0	0.0%
- Pediatric hematology/oncology	145	0.3%	0	0.0%

**TABLE D.5 *Continued*****Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2023-2024 AY**

Specialty	Total Graduates	Percent of Total Graduates	Number of Residents Completing Preliminary Training	Percent of Total Residents Completing Preliminary Training
- Pediatric infectious diseases	61	0.1%	0	0.0%
- Pediatric nephrology	56	0.1%	0	0.0%
- Pediatric pulmonology	60	0.1%	0	0.0%
- Pediatric rheumatology	35	0.1%	0	0.0%
- Sports medicine	26	0.0%	0	0.0%
- Pediatric transplant hepatology	13	0.0%	0	0.0%
- Pediatric hospital medicine	97	0.2%	0	0.0%
Physical medicine and rehabilitation	496	0.9%	0	0.0%
- Brain injury medicine	24	0.0%	0	0.0%
- Neuromuscular medicine	1	0.0%	0	0.0%
- Spinal cord injury medicine	27	0.1%	0	0.0%
- Pediatric rehabilitation medicine	26	0.0%	0	0.0%
- Sports medicine	42	0.1%	0	0.0%
Plastic surgery	65	0.1%	0	0.0%
- Craniofacial surgery	7	0.0%	0	0.0%
- Hand surgery	29	0.1%	0	0.0%
Plastic Surgery - integrated	179	0.3%	0	0.0%
Public health and general preventive medicine	90	0.2%	0	0.0%
- Undersea and hyperbaric medicine	2	0.0%	0	0.0%
Aerospace medicine	27	0.1%	0	0.0%
Occupational and environmental medicine	71	0.1%	0	0.0%
Psychiatry	1,636	3.1%	0	0.0%
- Addiction medicine (multidisciplinary)	208	0.4%	0	0.0%
- Addiction psychiatry	92	0.2%	0	0.0%
- Child and adolescent psychiatry	482	0.9%	0	0.0%
- Forensic psychiatry	85	0.2%	0	0.0%
- Geriatric psychiatry	58	0.1%	0	0.0%
- Consultation-liaison psychiatry	91	0.2%	0	0.0%
Radiation oncology	198	0.4%	0	0.0%
Radiology-diagnostic	1,160	2.2%	0	0.0%
- Abdominal radiology	57	0.1%	0	0.0%
- Musculoskeletal radiology	41	0.1%	0	0.0%
- Neuroendovascular intervention	6	0.0%	0	0.0%
- Neuroradiology	319	0.6%	0	0.0%
- Nuclear radiology	13	0.0%	0	0.0%
- Pediatric radiology	60	0.1%	0	0.0%
Interventional radiology - independent	136	0.3%	0	0.0%
Interventional radiology - integrated	138	0.3%	0	0.0%
Surgery	1,525	2.9%	1,115	35.9%
- Complex general surgical oncology	66	0.1%	0	0.0%
- Hand surgery	9	0.0%	0	0.0%
- Pediatric surgery	42	0.1%	0	0.0%
- Surgical critical care	351	0.7%	0	0.0%
- Vascular surgery - independent	133	0.3%	0	0.0%
Vascular surgery - integrated	60	0.1%	0	0.0%
Thoracic surgery - independent	110	0.2%	0	0.0%
- Congenital cardiac surgery	2	0.0%	0	0.0%
Thoracic surgery - integrated	31	0.1%	0	0.0%
Urology	358	0.7%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	16	0.0%	0	0.0%
- Pediatric urology	15	0.0%	0	0.0%
Transitional year	1,969	3.8%	0	0.0%
Internal medicine/Pediatrics	384	0.7%	0	0.0%
Health care administration, leadership, and management	0	0.0%	0	0.0%

Note: Pipeline specialties are highlighted.

Abbreviations: AY, academic year.

TABLE D.6

## Number of Graduating Residents by Specialty and Subspecialty and Medical School Type, 2023-2024 AY

Specialty	Total Graduates	US LCME - Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
OVERALL	52,405	29,841	56.9%	12,999	24.8%	9,416	18.0%	106	0.2%	43	0.1%
TOTAL PIPELINE	35,042	20,051	57.2%	8,104	23.1%	6,873	19.6%	13	0.0%	1	0.0%
Allergy and immunology	166	113	68.1%	20	12.0%	33	19.9%	0	0.0%	0	0.0%
Anesthesiology	1,917	1,343	70.1%	211	11.0%	362	18.9%	1	0.1%	0	0.0%
- Adult cardiothoracic anesthesiology	257	167	65.0%	37	14.4%	52	20.2%	1	0.4%	0	0.0%
- Critical care medicine	193	128	66.3%	37	19.2%	26	13.5%	2	1.0%	0	0.0%
- Obstetric anesthesiology	60	43	71.7%	13	21.7%	2	3.3%	2	3.3%	0	0.0%
- Pain medicine (multidisciplinary)	422	239	56.6%	67	15.9%	116	27.5%	0	0.0%	0	0.0%
- Pediatric anesthesiology	156	118	75.6%	17	10.9%	20	12.8%	1	0.6%	0	0.0%
- Pediatric cardiac anesthesiology	18	8	44.4%	7	38.9%	3	16.7%	0	0.0%	0	0.0%
- Regional anesthesiology and acute pain medicine	87	61	70.1%	18	20.7%	8	9.2%	0	0.0%	0	0.0%
Colon and rectal surgery	111	82	73.9%	15	13.5%	12	10.8%	2	1.8%	0	0.0%
Dermatology	541	465	86.0%	20	3.7%	55	10.2%	1	0.2%	0	0.0%
- Dermatopathology (multidisciplinary)	69	48	69.6%	17	24.6%	4	5.8%	0	0.0%	0	0.0%
- Micrographic surgery and dermatologic oncology	92	77	83.7%	4	4.3%	9	9.8%	2	2.2%	0	0.0%
- Pediatric dermatology	24	16	66.7%	5	20.8%	0	0.0%	2	8.3%	1	4.2%
Emergency medicine	2,909	1,907	65.6%	186	6.4%	816	28.1%	0	0.0%	0	0.0%
- Emergency medical services	111	74	66.7%	14	12.6%	23	20.7%	0	0.0%	0	0.0%
- Medical toxicology	51	41	80.4%	4	7.8%	6	11.8%	0	0.0%	0	0.0%
- Pediatric emergency medicine	52	31	59.6%	15	28.8%	6	11.5%	0	0.0%	0	0.0%
- Sports medicine	19	12	63.2%	0	0.0%	7	36.8%	0	0.0%	0	0.0%
- Undersea and hyperbaric medicine	13	10	76.9%	1	7.7%	1	7.7%	1	7.7%	0	0.0%
Family medicine	4,823	1,900	39.4%	1,288	26.7%	1,635	33.9%	0	0.0%	0	0.0%
- Clinical informatics	11	8	72.7%	1	9.1%	2	18.2%	0	0.0%	0	0.0%
- Geriatric medicine	44	19	43.2%	17	38.6%	8	18.2%	0	0.0%	0	0.0%
- Hospice and palliative medicine (multidisciplinary)	469	275	58.6%	116	24.7%	78	16.6%	0	0.0%	0	0.0%
- Sports medicine	297	117	39.4%	43	14.5%	137	46.1%	0	0.0%	0	0.0%
Internal medicine	9,976	4,193	42.0%	4,017	40.3%	1,763	17.7%	2	0.0%	1	0.0%
- Adult congenital heart disease	14	13	92.9%	1	7.1%	0	0.0%	0	0.0%	0	0.0%
- Advanced heart failure and transplant cardiology	85	44	51.8%	31	36.5%	8	9.4%	2	2.4%	0	0.0%
- Cardiovascular disease	1,129	584	51.7%	423	37.5%	121	10.7%	1	0.1%	0	0.0%
- Clinical cardiac electrophysiology	169	83	49.1%	71	42.0%	11	6.5%	4	2.4%	0	0.0%
- Clinical informatics	33	25	75.8%	5	15.2%	3	9.1%	0	0.0%	0	0.0%
- Critical care medicine	215	88	40.9%	81	37.7%	46	21.4%	0	0.0%	0	0.0%
- Endocrinology, diabetes, and metabolism	363	115	31.7%	207	57.0%	41	11.3%	0	0.0%	0	0.0%
- Gastroenterology	660	381	57.7%	198	30.0%	81	12.3%	0	0.0%	0	0.0%
- Geriatric medicine	253	88	34.8%	134	53.0%	31	12.3%	0	0.0%	0	0.0%
- Hematology and medical oncology	704	367	52.1%	263	37.4%	73	10.4%	1	0.1%	0	0.0%
- Infectious disease	418	184	44.0%	176	42.1%	58	13.9%	0	0.0%	0	0.0%
- Interventional cardiology	374	135	36.1%	198	52.9%	39	10.4%	2	0.5%	0	0.0%
- Interventional pulmonology	30	17	56.7%	11	36.7%	1	3.3%	1	3.3%	0	0.0%
- Medical oncology	3	1	33.3%	2	66.7%	0	0.0%	0	0.0%	0	0.0%
- Nephrology	451	117	25.9%	267	59.2%	67	14.9%	0	0.0%	0	0.0%
- Pulmonary disease	25	3	12.0%	20	80.0%	2	8.0%	0	0.0%	0	0.0%
- Pulmonary disease and critical care medicine	796	375	47.1%	300	37.7%	121	15.2%	0	0.0%	0	0.0%
- Rheumatology	287	122	42.5%	125	43.6%	40	13.9%	0	0.0%	0	0.0%
- Sleep medicine (multidisciplinary)	217	85	39.2%	89	41.0%	41	18.9%	2	0.9%	0	0.0%
- Transplant hepatology	49	33	67.3%	10	20.4%	4	8.2%	2	4.1%	0	0.0%
Medical genetics and genomics	26	11	42.3%	12	46.2%	3	11.5%	0	0.0%	0	0.0%
- Medical biochemical genetics	13	9	69.2%	3	23.1%	1	7.7%	0	0.0%	0	0.0%
- Molecular genetic pathology (multidisciplinary)	61	29	47.5%	29	47.5%	2	3.3%	1	1.6%	0	0.0%
Clinical biochemical genetics	8	4	50.0%	0	0.0%	0	0.0%	0	0.0%	4	50.0%
Laboratory genetics and genomics	40	1	2.5%	2	5.0%	0	0.0%	0	0.0%	37	92.5%
Neurological surgery	211	178	84.4%	21	10.0%	12	5.7%	0	0.0%	0	0.0%
- Neuroendovascular intervention	3	2	66.7%	1	33.3%	0	0.0%	0	0.0%	0	0.0%

**TABLE D.6 *Continued*****Number of Graduating Residents by Specialty and Subspecialty and Medical School Type, 2023-2024 AY**

Specialty	Total Graduates	US LCME - Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
Neurology	943	493	52.3%	318	33.7%	132	14.0%	0	0.0%	0	0.0%
- Clinical neurophysiology	144	76	52.8%	49	34.0%	17	11.8%	2	1.4%	0	0.0%
- Epilepsy	150	91	60.7%	39	26.0%	18	12.0%	2	1.3%	0	0.0%
- Neurocritical care (multidisciplinary)	104	52	50.0%	38	36.5%	14	13.5%	0	0.0%	0	0.0%
- Neuroendovascular intervention	2	0	0.0%	1	50.0%	1	50.0%	0	0.0%	0	0.0%
- Neurodevelopmental disabilities	10	8	80.0%	1	10.0%	1	10.0%	0	0.0%	0	0.0%
- Neuromuscular medicine	94	50	53.2%	26	27.7%	10	10.6%	8	8.5%	0	0.0%
- Vascular neurology	207	113	54.6%	74	35.7%	18	8.7%	2	1.0%	0	0.0%
Child neurology	163	110	67.5%	40	24.5%	13	8.0%	0	0.0%	0	0.0%
Nuclear medicine	38	6	15.8%	29	76.3%	3	7.9%	0	0.0%	0	0.0%
Obstetrics and gynecology	1,466	1,133	77.3%	103	7.0%	230	15.7%	0	0.0%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	50	45	90.0%	3	6.0%	2	4.0%	0	0.0%	0	0.0%
- Gynecologic oncology	79	73	92.4%	4	5.1%	2	2.5%	0	0.0%	0	0.0%
- Maternal-fetal medicine	139	104	74.8%	20	14.4%	14	10.1%	1	0.7%	0	0.0%
- Reproductive endocrinology and infertility	61	50	82.0%	5	8.2%	5	8.2%	1	1.6%	0	0.0%
- Complex family planning	29	27	93.1%	0	0.0%	2	6.9%	0	0.0%	0	0.0%
Ophthalmology	512	460	89.8%	26	5.1%	26	5.1%	0	0.0%	0	0.0%
- Ophthalmic plastic and reconstructive surgery	2	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Orthopaedic surgery	866	737	85.1%	11	1.3%	118	13.6%	0	0.0%	0	0.0%
- Adult reconstructive orthopaedics	53	42	79.2%	3	5.7%	8	15.1%	0	0.0%	0	0.0%
- Foot and ankle orthopaedics	17	10	58.8%	7	41.2%	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	164	150	91.5%	4	2.4%	7	4.3%	3	1.8%	0	0.0%
- Musculoskeletal oncology	17	15	88.2%	1	5.9%	0	0.0%	1	5.9%	0	0.0%
- Orthopaedic sports medicine	217	171	78.8%	18	8.3%	27	12.4%	1	0.5%	0	0.0%
- Orthopaedic surgery of the spine	27	21	77.8%	2	7.4%	4	14.8%	0	0.0%	0	0.0%
- Orthopaedic trauma	18	16	88.9%	1	5.6%	0	0.0%	1	5.6%	0	0.0%
- Pediatric orthopaedics	35	17	48.6%	16	45.7%	2	5.7%	0	0.0%	0	0.0%
Osteopathic neuromusculoskeletal medicine	45	2	4.4%	1	2.2%	42	93.3%	0	0.0%	0	0.0%
Otolaryngology - head and neck surgery	347	319	91.9%	8	2.3%	20	5.8%	0	0.0%	0	0.0%
- Neurotology	18	16	88.9%	1	5.6%	0	0.0%	1	5.6%	0	0.0%
- Pediatric otolaryngology	44	34	77.3%	6	13.6%	3	6.8%	1	2.3%	0	0.0%
Pathology-anatomic and clinical	592	222	37.5%	304	51.4%	66	11.1%	0	0.0%	0	0.0%
- Blood banking/transfusion medicine	48	20	41.7%	22	45.8%	4	8.3%	2	4.2%	0	0.0%
- Clinical informatics	11	4	36.4%	7	63.6%	0	0.0%	0	0.0%	0	0.0%
- Chemical pathology	2	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
- Cytopathology	105	36	34.3%	60	57.1%	9	8.6%	0	0.0%	0	0.0%
- Forensic pathology	62	28	45.2%	13	21.0%	20	32.3%	1	1.6%	0	0.0%
- Hematopathology	127	44	34.6%	67	52.8%	13	10.2%	3	2.4%	0	0.0%
- Medical microbiology	9	6	66.7%	3	33.3%	0	0.0%	0	0.0%	0	0.0%
- Neuropathology	28	17	60.7%	8	28.6%	3	10.7%	0	0.0%	0	0.0%
- Pediatric pathology	16	9	56.3%	6	37.5%	0	0.0%	1	6.3%	0	0.0%
- Selective pathology	187	46	24.6%	124	66.3%	9	4.8%	8	4.3%	0	0.0%
Pediatrics	3,113	1,903	61.1%	654	21.0%	554	17.8%	2	0.1%	0	0.0%
- Adolescent medicine	29	23	79.3%	4	13.8%	2	6.9%	0	0.0%	0	0.0%
- Child abuse pediatrics	23	15	65.2%	5	21.7%	2	8.7%	1	4.3%	0	0.0%
- Clinical informatics	18	12	66.7%	5	27.8%	1	5.6%	0	0.0%	0	0.0%
- Developmental-behavioral pediatrics	34	17	50.0%	13	38.2%	4	11.8%	0	0.0%	0	0.0%
- Neonatal-perinatal medicine	280	162	57.9%	77	27.5%	41	14.6%	0	0.0%	0	0.0%
- Pediatric cardiology	164	110	67.1%	36	22.0%	18	11.0%	0	0.0%	0	0.0%
- Pediatric critical care medicine	203	151	74.4%	27	13.3%	25	12.3%	0	0.0%	0	0.0%
- Pediatric emergency medicine	150	110	73.3%	14	9.3%	26	17.3%	0	0.0%	0	0.0%
- Pediatric endocrinology	78	32	41.0%	39	50.0%	7	9.0%	0	0.0%	0	0.0%
- Pediatric gastroenterology	110	76	69.1%	27	24.5%	7	6.4%	0	0.0%	0	0.0%
- Pediatric hematology/oncology	145	89	61.4%	37	25.5%	18	12.4%	1	0.7%	0	0.0%
- Pediatric infectious diseases	61	38	62.3%	15	24.6%	8	13.1%	0	0.0%	0	0.0%

TABLE D.6 *Continued*

## Number of Graduating Residents by Specialty and Subspecialty and Medical School Type, 2023-2024 AY

Specialty	Total Graduates	US LCME - Accredited Medical School		International Medical School		Osteopathic Medical School		Canadian Medical School		US Medical School Unknown	
		#	%	#	%	#	%	#	%	#	%
- Pediatric nephrology	56	37	66.1%	13	23.2%	6	10.7%	0	0.0%	0	0.0%
- Pediatric pulmonology	60	35	58.3%	15	25.0%	10	16.7%	0	0.0%	0	0.0%
- Pediatric rheumatology	35	23	65.7%	11	31.4%	1	2.9%	0	0.0%	0	0.0%
- Sports medicine	26	10	38.5%	4	15.4%	12	46.2%	0	0.0%	0	0.0%
- Pediatric transplant hepatology	13	7	53.8%	4	30.8%	1	7.7%	1	7.7%	0	0.0%
- Pediatric hospital medicine	97	77	79.4%	4	4.1%	16	16.5%	0	0.0%	0	0.0%
Physical medicine and rehabilitation	496	262	52.8%	41	8.3%	192	38.7%	1	0.2%	0	0.0%
- Brain injury medicine	24	13	54.2%	4	16.7%	7	29.2%	0	0.0%	0	0.0%
- Neuromuscular medicine	1	0	0.0%	0	0.0%	1	100.0%	0	0.0%	0	0.0%
- Spinal cord injury medicine	27	18	66.7%	2	7.4%	6	22.2%	1	3.7%	0	0.0%
- Pediatric rehabilitation medicine	26	20	76.9%	3	11.5%	3	11.5%	0	0.0%	0	0.0%
- Sports medicine	42	25	59.5%	4	9.5%	12	28.6%	1	2.4%	0	0.0%
Plastic surgery	65	46	70.8%	12	18.5%	7	10.8%	0	0.0%	0	0.0%
- Craniofacial surgery	7	4	57.1%	3	42.9%	0	0.0%	0	0.0%	0	0.0%
- Hand surgery	29	26	89.7%	1	3.4%	0	0.0%	2	6.9%	0	0.0%
Plastic Surgery - integrated	179	167	93.3%	11	6.1%	1	0.6%	0	0.0%	0	0.0%
Public health and general preventive medicine	90	57	63.3%	19	21.1%	13	14.4%	1	1.1%	0	0.0%
- Undersea and hyperbaric medicine	2	1	50.0%	0	0.0%	1	50.0%	0	0.0%	0	0.0%
Aerospace medicine	27	19	70.4%	0	0.0%	7	25.9%	1	3.7%	0	0.0%
Occupational and environmental medicine	71	38	53.5%	17	23.9%	15	21.1%	1	1.4%	0	0.0%
Psychiatry	1,636	1,026	62.7%	301	18.4%	309	18.9%	0	0.0%	0	0.0%
- Addiction medicine (multidisciplinary)	208	104	50.0%	64	30.8%	38	18.3%	2	1.0%	0	0.0%
- Addiction psychiatry	92	49	53.3%	32	34.8%	11	12.0%	0	0.0%	0	0.0%
- Child and adolescent psychiatry	482	291	60.4%	109	22.6%	82	17.0%	0	0.0%	0	0.0%
- Forensic psychiatry	85	54	63.5%	13	15.3%	18	21.2%	0	0.0%	0	0.0%
- Geriatric psychiatry	58	30	51.7%	18	31.0%	10	17.2%	0	0.0%	0	0.0%
- Consultation-liaison psychiatry	91	57	62.6%	23	25.3%	9	9.9%	2	2.2%	0	0.0%
Radiation oncology	198	184	92.9%	9	4.5%	5	2.5%	0	0.0%	0	0.0%
Radiology-diagnostic	1,160	839	72.3%	143	12.3%	177	15.3%	1	0.1%	0	0.0%
- Abdominal radiology	57	31	54.4%	22	38.6%	0	0.0%	4	7.0%	0	0.0%
- Musculoskeletal radiology	41	25	61.0%	10	24.4%	6	14.6%	0	0.0%	0	0.0%
- Neuroendovascular intervention	6	3	50.0%	3	50.0%	0	0.0%	0	0.0%	0	0.0%
- Neuroradiology	319	209	65.5%	67	21.0%	42	13.2%	1	0.3%	0	0.0%
- Nuclear radiology	13	5	38.5%	8	61.5%	0	0.0%	0	0.0%	0	0.0%
- Pediatric radiology	60	23	38.3%	29	48.3%	6	10.0%	2	3.3%	0	0.0%
Interventional radiology - independent	136	86	63.2%	30	22.1%	19	14.0%	1	0.7%	0	0.0%
Interventional radiology - integrated	138	131	94.9%	3	2.2%	4	2.9%	0	0.0%	0	0.0%
Surgery	1,525	1,096	71.9%	219	14.4%	209	13.7%	1	0.1%	0	0.0%
- Complex general surgical oncology	66	51	77.3%	13	19.7%	1	1.5%	1	1.5%	0	0.0%
- Hand surgery	9	6	66.7%	0	0.0%	3	33.3%	0	0.0%	0	0.0%
- Pediatric surgery	42	41	97.6%	1	2.4%	0	0.0%	0	0.0%	0	0.0%
- Surgical critical care	351	238	67.8%	55	15.7%	55	15.7%	3	0.9%	0	0.0%
- Vascular surgery - independent	133	93	69.9%	17	12.8%	23	17.3%	0	0.0%	0	0.0%
Vascular surgery - integrated	60	50	83.3%	5	8.3%	5	8.3%	0	0.0%	0	0.0%
Thoracic surgery - independent	110	76	69.1%	25	22.7%	9	8.2%	0	0.0%	0	0.0%
- Congenital cardiac surgery	2	1	50.0%	0	0.0%	0	0.0%	1	50.0%	0	0.0%
Thoracic surgery - integrated	31	27	87.1%	4	12.9%	0	0.0%	0	0.0%	0	0.0%
Urology	358	319	89.1%	15	4.2%	24	6.7%	0	0.0%	0	0.0%
- Urogynecology and reconstructive pelvic surgery	16	12	75.0%	1	6.3%	2	12.5%	1	6.3%	0	0.0%
- Pediatric urology	15	13	86.7%	0	0.0%	2	13.3%	0	0.0%	0	0.0%
Transitional year	1,969	1,260	64.0%	274	13.9%	434	22.0%	1	0.1%	0	0.0%
Internal medicine/Pediatrics	384	322	83.9%	26	6.8%	36	9.4%	0	0.0%	0	0.0%
Health care administration, leadership, and management	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

Note: Pipeline specialties are highlighted.

Abbreviations: AY, academic year; LCME, Liaison Committee on Medical Education.

**TABLE D.7****Number of Graduating Residents and Graduate Concentration per 100,000 Population by State, 2023-2024 AY**

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Graduates	Percent of All Graduates	Graduates per 100,000 Pop
OVERALL	-	343,314,283	52,405	100.0%	15.26
Alabama	AL	5,157,699	614	1.2%	11.90
Alaska	AK	740,133	13	0.0%	1.76
Arizona	AZ	7,582,384	759	1.4%	10.01
Arkansas	AR	3,088,354	399	0.8%	12.92
California	CA	39,431,263	5,010	9.6%	12.71
Colorado	CO	5,957,493	603	1.2%	10.12
Connecticut	CT	3,675,069	860	1.6%	23.40
Delaware	DE	1,051,917	148	0.3%	14.07
District of Columbia	DC	702,250	564	1.1%	80.31
Florida	FL	23,372,215	2,898	5.5%	12.40
Georgia	GA	11,180,878	1,171	2.2%	10.47
Hawaii	HI	1,446,146	139	0.3%	9.61
Idaho	ID	2,001,619	64	0.1%	3.20
Illinois	IL	12,710,158	2,329	4.4%	18.32
Indiana	IN	6,924,275	584	1.1%	8.43
Iowa	IA	3,241,488	335	0.6%	10.33
Kansas	KS	2,970,606	276	0.5%	9.29
Kentucky	KY	4,588,372	511	1.0%	11.14
Louisiana	LA	4,597,740	737	1.4%	16.03
Maine	ME	1,405,012	131	0.2%	9.32
Maryland	MD	6,263,220	1,189	2.3%	18.98
Massachusetts	MA	7,136,171	2,182	4.2%	30.58
Michigan	MI	10,140,459	2,462	4.7%	24.28
Minnesota	MN	5,793,151	875	1.7%	15.10
Mississippi	MS	2,943,045	322	0.6%	10.94
Missouri	MO	6,245,466	1,091	2.1%	17.47
Montana	MT	1,137,233	25	0.0%	2.20
Nebraska	NE	2,005,465	295	0.6%	14.71
Nevada	NV	3,267,467	323	0.6%	9.89
New Hampshire	NH	1,409,032	171	0.3%	12.14
New Jersey	NJ	9,500,851	1,420	2.7%	14.95
New Mexico	NM	2,130,256	262	0.5%	12.30
New York	NY	19,867,248	6,310	12.0%	31.76
North Carolina	NC	11,046,024	1,481	2.8%	13.41
North Dakota	ND	796,568	56	0.1%	7.03
Ohio	OH	11,883,304	2,566	4.9%	21.59
Oklahoma	OK	4,095,393	373	0.7%	9.11
Oregon	OR	4,272,371	395	0.8%	9.25
Pennsylvania	PA	13,078,751	3,314	6.3%	25.34
Puerto Rico	PR	3,203,295	331	0.6%	10.33
Rhode Island	RI	1,112,308	294	0.6%	26.43
South Carolina	SC	5,478,831	661	1.3%	12.06
South Dakota	SD	924,669	56	0.1%	6.06
Tennessee	TN	7,227,750	910	1.7%	12.59
Texas	TX	31,290,831	3,559	6.8%	11.37
Utah	UT	3,503,613	325	0.6%	9.28
Vermont	VT	648,493	105	0.2%	16.19
Virginia	VA	8,811,195	1,033	2.0%	11.72
Washington	WA	7,958,180	815	1.6%	10.24
West Virginia	WV	1,769,979	326	0.6%	18.42
Wisconsin	WI	5,960,975	719	1.4%	12.06
Wyoming	WY	587,618	14	0.0%	2.38

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

Abbreviations: AY, academic year.

TABLE D.8

## Number of Specialty Graduates and Specialty Graduate Concentration per 100,000 Population by State, 2023-2024 AY

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Specialty Graduates	Percent of All Specialty Graduates	Specialty Graduates per 100,000 Pop
OVERALL	-	343,314,283	37,310	100.0%	10.87
Alabama	AL	5,157,699	453	1.2%	8.78
Alaska	AK	740,133	12	0.0%	1.62
Arizona	AZ	7,582,384	548	1.5%	7.23
Arkansas	AR	3,088,354	329	0.9%	10.65
California	CA	39,431,263	3,426	9.2%	8.69
Colorado	CO	5,957,493	396	1.1%	6.65
Connecticut	CT	3,675,069	585	1.6%	15.92
Delaware	DE	1,051,917	121	0.3%	11.50
District of Columbia	DC	702,250	371	1.0%	52.83
Florida	FL	23,372,215	2,206	5.9%	9.44
Georgia	GA	11,180,878	881	2.4%	7.88
Hawaii	HI	1,446,146	121	0.3%	8.37
Idaho	ID	2,001,619	62	0.2%	3.10
Illinois	IL	12,710,158	1,720	4.6%	13.53
Indiana	IN	6,924,275	448	1.2%	6.47
Iowa	IA	3,241,488	237	0.6%	7.31
Kansas	KS	2,970,606	209	0.6%	7.04
Kentucky	KY	4,588,372	374	1.0%	8.15
Louisiana	LA	4,597,740	562	1.5%	12.22
Maine	ME	1,405,012	104	0.3%	7.40
Maryland	MD	6,263,220	766	2.1%	12.23
Massachusetts	MA	7,136,171	1,298	3.5%	18.19
Michigan	MI	10,140,459	1,908	5.1%	18.82
Minnesota	MN	5,793,151	545	1.5%	9.41
Mississippi	MS	2,943,045	262	0.7%	8.90
Missouri	MO	6,245,466	728	2.0%	11.66
Montana	MT	1,137,233	25	0.1%	2.20
Nebraska	NE	2,005,465	205	0.5%	10.22
Nevada	NV	3,267,467	279	0.7%	8.54
New Hampshire	NH	1,409,032	110	0.3%	7.81
New Jersey	NJ	9,500,851	1,157	3.1%	12.18
New Mexico	NM	2,130,256	179	0.5%	8.40
New York	NY	19,867,248	4,473	12.0%	22.51
North Carolina	NC	11,046,024	993	2.7%	8.99
North Dakota	ND	796,568	54	0.1%	6.78
Ohio	OH	11,883,304	1,775	4.8%	14.94
Oklahoma	OK	4,095,393	315	0.8%	7.69
Oregon	OR	4,272,371	279	0.7%	6.53
Pennsylvania	PA	13,078,751	2,282	6.1%	17.45
Puerto Rico	PR	3,203,295	266	0.7%	8.30
Rhode Island	RI	1,112,308	202	0.5%	18.16
South Carolina	SC	5,478,831	513	1.4%	9.36
South Dakota	SD	924,669	51	0.1%	5.52
Tennessee	TN	7,227,750	626	1.7%	8.66
Texas	TX	31,290,831	2,442	6.5%	7.80
Utah	UT	3,503,613	207	0.6%	5.91
Vermont	VT	648,493	69	0.2%	10.64
Virginia	VA	8,811,195	779	2.1%	8.84
Washington	WA	7,958,180	584	1.6%	7.34
West Virginia	WV	1,769,979	252	0.7%	14.24
Wisconsin	WI	5,960,975	508	1.4%	8.52
Wyoming	WY	587,618	13	0.0%	2.21

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

Abbreviations: AY, academic year.

TABLE D.9

## Number of Subspecialty Graduates and Subspecialty Graduate Concentration per 100,000 Population by State, 2023-2024 AY

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Subspecialty Graduates	Percent of All Subspecialty Graduates	Subspecialty Graduates per 100,000 Pop
OVERALL	-	343,314,283	15,095	100.0%	4.40
Alabama	AL	5,157,699	161	1.1%	3.12
Alaska	AK	740,133	1	0.0%	0.14
Arizona	AZ	7,582,384	211	1.4%	2.78
Arkansas	AR	3,088,354	70	0.5%	2.27
California	CA	39,431,263	1,584	10.5%	4.02
Colorado	CO	5,957,493	207	1.4%	3.47
Connecticut	CT	3,675,069	275	1.8%	7.48
Delaware	DE	1,051,917	27	0.2%	2.57
District of Columbia	DC	702,250	193	1.3%	27.48
Florida	FL	23,372,215	692	4.6%	2.96
Georgia	GA	11,180,878	290	1.9%	2.59
Hawaii	HI	1,446,146	18	0.1%	1.24
Idaho	ID	2,001,619	2	0.0%	0.10
Illinois	IL	12,710,158	609	4.0%	4.79
Indiana	IN	6,924,275	136	0.9%	1.96
Iowa	IA	3,241,488	98	0.6%	3.02
Kansas	KS	2,970,606	67	0.4%	2.26
Kentucky	KY	4,588,372	137	0.9%	2.99
Louisiana	LA	4,597,740	175	1.2%	3.81
Maine	ME	1,405,012	27	0.2%	1.92
Maryland	MD	6,263,220	423	2.8%	6.75
Massachusetts	MA	7,136,171	884	5.9%	12.39
Michigan	MI	10,140,459	554	3.7%	5.46
Minnesota	MN	5,793,151	330	2.2%	5.70
Mississippi	MS	2,943,045	60	0.4%	2.04
Missouri	MO	6,245,466	363	2.4%	5.81
Montana	MT	1,137,233	0	0.0%	0.00
Nebraska	NE	2,005,465	90	0.6%	4.49
Nevada	NV	3,267,467	44	0.3%	1.35
New Hampshire	NH	1,409,032	61	0.4%	4.33
New Jersey	NJ	9,500,851	263	1.7%	2.77
New Mexico	NM	2,130,256	83	0.5%	3.90
New York	NY	19,867,248	1,837	12.2%	9.25
North Carolina	NC	11,046,024	488	3.2%	4.42
North Dakota	ND	796,568	2	0.0%	0.25
Ohio	OH	11,883,304	791	5.2%	6.66
Oklahoma	OK	4,095,393	58	0.4%	1.42
Oregon	OR	4,272,371	116	0.8%	2.72
Pennsylvania	PA	13,078,751	1,032	6.8%	7.89
Puerto Rico	PR	3,203,295	65	0.4%	2.03
Rhode Island	RI	1,112,308	92	0.6%	8.27
South Carolina	SC	5,478,831	148	1.0%	2.70
South Dakota	SD	924,669	5	0.0%	0.54
Tennessee	TN	7,227,750	284	1.9%	3.93
Texas	TX	31,290,831	1,117	7.4%	3.57
Utah	UT	3,503,613	118	0.8%	3.37
Vermont	VT	648,493	36	0.2%	5.55
Virginia	VA	8,811,195	254	1.7%	2.88
Washington	WA	7,958,180	231	1.5%	2.90
West Virginia	WV	1,769,979	74	0.5%	4.18
Wisconsin	WI	5,960,975	211	1.4%	3.54
Wyoming	WY	587,618	1	0.0%	0.17

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

Abbreviations: AY, academic year.

TABLE D.10

## Number of Pipeline Graduates and Pipeline Graduate Concentration per 100,000 Population by State, 2023-2024 AY

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Pipeline Graduates	Percent of All Pipeline Graduates	Pipeline Graduates per 100,000 Pop
OVERALL	-	343,314,283	35,042	100.0%	10.21
Alabama	AL	5,157,699	418	1.2%	8.10
Alaska	AK	740,133	12	0.0%	1.62
Arizona	AZ	7,582,384	502	1.4%	6.62
Arkansas	AR	3,088,354	296	0.8%	9.58
California	CA	39,431,263	3,251	9.3%	8.24
Colorado	CO	5,957,493	381	1.1%	6.40
Connecticut	CT	3,675,069	581	1.7%	15.81
Delaware	DE	1,051,917	114	0.3%	10.84
District of Columbia	DC	702,250	371	1.1%	52.83
Florida	FL	23,372,215	1,978	5.6%	8.46
Georgia	GA	11,180,878	768	2.2%	6.87
Hawaii	HI	1,446,146	107	0.3%	7.40
Idaho	ID	2,001,619	62	0.2%	3.10
Illinois	IL	12,710,158	1,649	4.7%	12.97
Indiana	IN	6,924,275	389	1.1%	5.62
Iowa	IA	3,241,488	228	0.7%	7.03
Kansas	KS	2,970,606	207	0.6%	6.97
Kentucky	KY	4,588,372	364	1.0%	7.93
Louisiana	LA	4,597,740	552	1.6%	12.01
Maine	ME	1,405,012	104	0.3%	7.40
Maryland	MD	6,263,220	707	2.0%	11.29
Massachusetts	MA	7,136,171	1,232	3.5%	17.26
Michigan	MI	10,140,459	1,764	5.0%	17.40
Minnesota	MN	5,793,151	514	1.5%	8.87
Mississippi	MS	2,943,045	235	0.7%	7.98
Missouri	MO	6,245,466	709	2.0%	11.35
Montana	MT	1,137,233	25	0.1%	2.20
Nebraska	NE	2,005,465	201	0.6%	10.02
Nevada	NV	3,267,467	241	0.7%	7.38
New Hampshire	NH	1,409,032	110	0.3%	7.81
New Jersey	NJ	9,500,851	1,062	3.0%	11.18
New Mexico	NM	2,130,256	170	0.5%	7.98
New York	NY	19,867,248	4,259	12.2%	21.44
North Carolina	NC	11,046,024	929	2.7%	8.41
North Dakota	ND	796,568	49	0.1%	6.15
Ohio	OH	11,883,304	1,685	4.8%	14.18
Oklahoma	OK	4,095,393	309	0.9%	7.55
Oregon	OR	4,272,371	274	0.8%	6.41
Pennsylvania	PA	13,078,751	2,157	6.2%	16.49
Puerto Rico	PR	3,203,295	226	0.6%	7.06
Rhode Island	RI	1,112,308	201	0.6%	18.07
South Carolina	SC	5,478,831	461	1.3%	8.41
South Dakota	SD	924,669	45	0.1%	4.87
Tennessee	TN	7,227,750	597	1.7%	8.26
Texas	TX	31,290,831	2,312	6.6%	7.39
Utah	UT	3,503,613	194	0.6%	5.54
Vermont	VT	648,493	69	0.2%	10.64
Virginia	VA	8,811,195	720	2.1%	8.17
Washington	WA	7,958,180	534	1.5%	6.71
West Virginia	WV	1,769,979	238	0.7%	13.45
Wisconsin	WI	5,960,975	466	1.3%	7.82
Wyoming	WY	587,618	13	0.0%	2.21

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

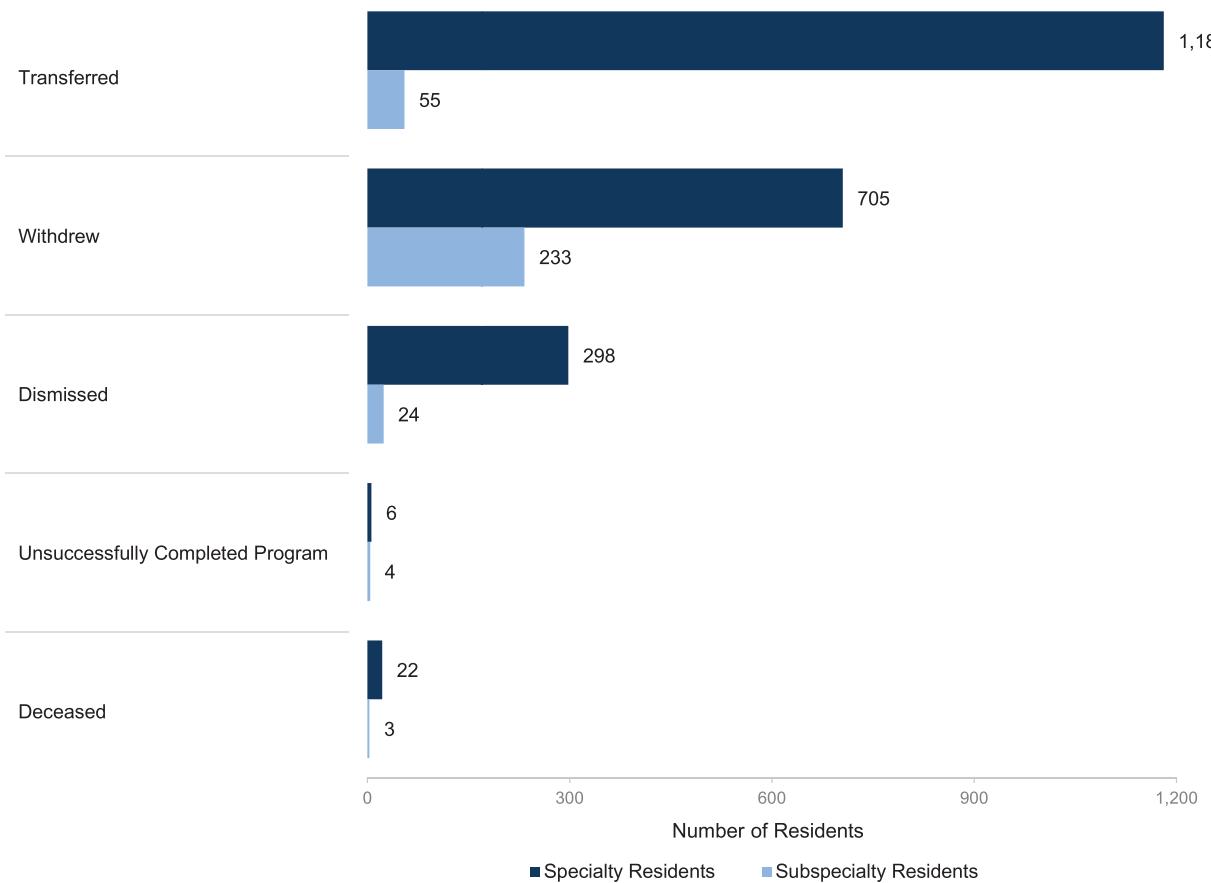
Abbreviations: AY, academic year.

TABLE D.11

## Number of Graduating Residents by State and Medical School Type, 2023-2024 AY

State Name	State Abbreviation	Total Graduates	Medical School Type				
			US LCME-Accredited Medical School	International Medical School	Osteopathic Medical School	Canadian Medical School	US Medical School Unknown
OVERALL	-	52,405	29,841	12,999	9,416	106	43
Alabama	AL	614	374	146	94	0	0
Alaska	AK	13	8	1	4	0	0
Arizona	AZ	759	414	141	200	3	1
Arkansas	AR	399	171	137	91	0	0
California	CA	5,010	3,580	752	651	23	4
Colorado	CO	603	456	40	105	0	2
Connecticut	CT	860	441	320	97	0	2
Delaware	DE	148	72	27	49	0	0
District of Columbia	DC	564	349	169	46	0	0
Florida	FL	2,898	1,242	952	700	4	0
Georgia	GA	1,171	697	300	173	1	0
Hawaii	HI	139	87	20	32	0	0
Idaho	ID	64	33	7	24	0	0
Illinois	IL	2,329	1,322	591	413	3	0
Indiana	IN	584	354	101	128	0	1
Iowa	IA	335	179	74	82	0	0
Kansas	KS	276	170	56	50	0	0
Kentucky	KY	511	264	111	136	0	0
Louisiana	LA	737	417	250	70	0	0
Maine	ME	131	72	16	43	0	0
Maryland	MD	1,189	789	260	131	5	4
Massachusetts	MA	2,182	1,551	479	131	19	2
Michigan	MI	2,462	1,052	732	674	2	2
Minnesota	MN	875	575	209	82	6	3
Mississippi	MS	322	150	92	80	0	0
Missouri	MO	1,091	645	232	211	2	1
Montana	MT	25	11	2	12	0	0
Nebraska	NE	295	169	74	52	0	0
Nevada	NV	323	125	48	150	0	0
New Hampshire	NH	171	114	30	27	0	0
New Jersey	NJ	1,420	406	637	376	1	0
New Mexico	NM	262	144	56	62	0	0
New York	NY	6,310	3,075	2,456	766	12	1
North Carolina	NC	1,481	1,028	202	246	2	3
North Dakota	ND	56	26	29	1	0	0
Ohio	OH	2,566	1,355	567	635	6	3
Oklahoma	OK	373	146	47	180	0	0
Oregon	OR	395	266	41	87	1	0
Pennsylvania	PA	3,314	1,752	802	752	4	4
Puerto Rico	PR	331	203	128	0	0	0
Rhode Island	RI	294	196	70	26	2	0
South Carolina	SC	661	399	90	171	0	1
South Dakota	SD	56	32	9	15	0	0
Tennessee	TN	910	645	152	112	0	1
Texas	TX	3,559	2,125	799	630	2	3
Utah	UT	325	260	30	31	2	2
Vermont	VT	105	77	15	13	0	0
Virginia	VA	1,033	608	163	260	0	2
Washington	WA	815	612	69	129	5	0
West Virginia	WV	326	126	129	71	0	0
Wisconsin	WI	719	472	134	111	1	1
Wyoming	WY	14	5	5	4	0	0

Abbreviations: AY, academic year; LCME, Liaison Committee on Medical Education.

**FIGURE D.12****Number of Residents Leaving Prior to Completion of a Program by Status, 2023-2024 AY**

Abbreviations: AY, academic year.

**TABLE D.13****Number of Residents Leaving Prior to Completion of a Program by Specialty and Subspecialty and Status, 2023-2024 AY**

Specialty	Number of Residents Not Graduating	Resident Status				
		Transferred	Withdrew	Dismissed	Unsuccessfully Completed Program	Deceased
OVERALL	2,533	1,236	938	322	10	25
<b>TOTAL PIPELINE</b>	<b>2,190</b>	<b>1,167</b>	<b>698</b>	<b>296</b>	<b>5</b>	<b>22</b>
Allergy and immunology	0	0	0	0	0	0
Anesthesiology	58	24	21	8	1	4
- Adult cardiothoracic anesthesiology	2	0	2	0	0	0
- Critical care medicine	3	0	2	1	0	0
- Obstetric anesthesiology	1	0	0	0	1	0
- Pain medicine (multidisciplinary)	4	0	4	0	0	0
- Pediatric anesthesiology	4	0	3	0	1	0
- Pediatric cardiac anesthesiology	1	0	0	1	0	0
- Regional anesthesiology and acute pain medicine	0	0	0	0	0	0
Colon and rectal surgery	0	0	0	0	0	0
Dermatology	7	3	3	1	0	0
- Dermatopathology (multidisciplinary)	0	0	0	0	0	0
- Micrographic surgery and dermatologic oncology	0	0	0	0	0	0
- Pediatric dermatology	1	0	1	0	0	0
Emergency medicine	130	44	61	23	0	1
- Emergency medical services	0	0	0	0	0	0
- Medical toxicology	2	0	2	0	0	0
- Pediatric emergency medicine	2	0	2	0	0	0
- Sports medicine	0	0	0	0	0	0
- Undersea and hyperbaric medicine	0	0	0	0	0	0
Family medicine	321	105	130	82	0	4
- Clinical informatics	2	0	2	0	0	0
- Geriatric medicine	1	0	1	0	0	0
- Hospice and palliative medicine (multidisciplinary)	5	0	3	2	0	0
- Sports medicine	0	0	0	0	0	0
Internal medicine	347	152	115	74	2	3
- Adult congenital heart disease	1	0	1	0	0	0
- Advanced heart failure and transplant cardiology	1	0	1	0	0	0
- Cardiovascular disease	14	4	7	3	0	0
- Clinical cardiac electrophysiology	5	0	5	0	0	0
- Clinical informatics	0	0	0	0	0	0
- Critical care medicine	7	3	3	1	0	0
- Endocrinology, diabetes, and metabolism	4	1	3	0	0	0
- Gastroenterology	9	4	2	3	0	0
- Geriatric medicine	5	2	3	0	0	0
- Hematology and medical oncology	10	2	7	1	0	0
- Infectious disease	14	4	10	0	0	0
- Interventional cardiology	3	0	3	0	0	0
- Interventional pulmonology	0	0	0	0	0	0
- Medical oncology	0	0	0	0	0	0
- Nephrology	27	7	17	2	0	1
- Pulmonary disease	0	0	0	0	0	0
- Pulmonary disease and critical care medicine	14	2	7	4	0	1
- Rheumatology	2	0	1	1	0	0
- Sleep medicine (multidisciplinary)	1	0	1	0	0	0
- Transplant hepatology	0	0	0	0	0	0
Medical genetics and genomics	1	0	0	1	0	0
- Medical biochemical genetics	0	0	0	0	0	0
- Molecular genetic pathology (multidisciplinary)	0	0	0	0	0	0
Clinical biochemical genetics	0	0	0	0	0	0
Laboratory genetics and genomics	2	0	1	0	1	0
Neurological surgery	30	6	18	6	0	0
- Neuroendovascular intervention	0	0	0	0	0	0

TABLE D.13 *Continued*

## Number of Residents Leaving Prior to Completion of a Program by Specialty and Subspecialty and Status, 2023-2024 AY

Specialty	Number of Residents Not Graduating	Resident Status				
		Transferred	Withdrew	Dismissed	Unsuccessfully Completed Program	Deceased
Neurology	40	20	14	5	0	1
- Clinical neurophysiology	1	0	1	0	0	0
- Epilepsy	2	0	2	0	0	0
- Neurocritical care (multidisciplinary)	3	1	2	0	0	0
- Neuroendovascular intervention	0	0	0	0	0	0
- Neurodevelopmental disabilities	0	0	0	0	0	0
- Neuromuscular medicine	2	0	2	0	0	0
- Vascular neurology	2	1	1	0	0	0
Child neurology	3	1	2	0	0	0
Nuclear medicine	6	6	0	0	0	0
Obstetrics and gynecology	80	37	35	7	0	1
- Urogynecology and reconstructive pelvic surgery	0	0	0	0	0	0
- Gynecologic oncology	1	0	1	0	0	0
- Maternal-fetal medicine	1	0	1	0	0	0
- Reproductive endocrinology and infertility	0	0	0	0	0	0
- Complex family planning	0	0	0	0	0	0
Ophthalmology	14	1	9	2	0	2
- Ophthalmic plastic and reconstructive surgery	0	0	0	0	0	0
Orthopaedic surgery	54	29	19	5	1	0
- Adult reconstructive orthopaedics	0	0	0	0	0	0
- Foot and ankle orthopaedics	1	0	1	0	0	0
- Hand surgery	0	0	0	0	0	0
- Musculoskeletal oncology	1	0	1	0	0	0
- Orthopaedic sports medicine	0	0	0	0	0	0
- Orthopaedic surgery of the spine	0	0	0	0	0	0
- Orthopaedic trauma	0	0	0	0	0	0
- Pediatric orthopaedics	0	0	0	0	0	0
Osteopathic neuromusculoskeletal medicine	2	0	1	1	0	0
Otolaryngology - head and neck surgery	9	6	3	0	0	0
- Neurotology	0	0	0	0	0	0
- Pediatric otolaryngology	0	0	0	0	0	0
Pathology-anatomic and clinical	60	29	21	9	1	0
- Blood banking/transfusion medicine	0	0	0	0	0	0
- Clinical informatics	1	0	1	0	0	0
- Chemical pathology	0	0	0	0	0	0
- Cytopathology	1	0	1	0	0	0
- Forensic pathology	0	0	0	0	0	0
- Hematopathology	4	0	3	0	1	0
- Medical microbiology	0	0	0	0	0	0
- Neuropathology	1	0	1	0	0	0
- Pediatric pathology	0	0	0	0	0	0
- Selective pathology	8	0	7	1	0	0
Pediatrics	108	58	34	16	0	0
- Adolescent medicine	2	1	1	0	0	0
- Child abuse pediatrics	2	0	2	0	0	0
- Clinical informatics	0	0	0	0	0	0
- Developmental-behavioral pediatrics	4	0	4	0	0	0
- Neonatal-perinatal medicine	22	5	16	1	0	0
- Pediatric cardiology	9	2	7	0	0	0
- Pediatric critical care medicine	15	5	9	1	0	0
- Pediatric emergency medicine	6	1	4	1	0	0
- Pediatric endocrinology	8	2	6	0	0	0
- Pediatric gastroenterology	1	0	1	0	0	0
- Pediatric hematology/oncology	4	2	2	0	0	0
- Pediatric infectious diseases	6	0	5	0	1	0
- Pediatric nephrology	4	0	4	0	0	0
- Pediatric pulmonology	5	0	5	0	0	0
- Pediatric rheumatology	0	0	0	0	0	0

**TABLE D.13 *Continued*****Number of Residents Leaving Prior to Completion of a Program by Specialty and Subspecialty and Status, 2023-2024 AY**

Specialty	Number of Residents Not Graduating	Resident Status				
		Transferred	Withdrew	Dismissed	Unsuccessfully Completed Program	Deceased
- Sports medicine	1	0	1	0	0	0
- Pediatric transplant hepatology	0	0	0	0	0	0
- Pediatric hospital medicine	5	0	4	0	0	1
Physical medicine and rehabilitation	15	7	6	2	0	0
- Brain injury medicine	0	0	0	0	0	0
- Neuromuscular medicine	0	0	0	0	0	0
- Spinal cord injury medicine	0	0	0	0	0	0
- Pediatric rehabilitation medicine	1	0	1	0	0	0
- Sports medicine	0	0	0	0	0	0
Plastic surgery	0	0	0	0	0	0
- Craniofacial surgery	0	0	0	0	0	0
- Hand surgery	0	0	0	0	0	0
Plastic Surgery - integrated	9	2	7	0	0	0
Public health and general preventive medicine	8	1	4	3	0	0
- Undersea and hyperbaric medicine	0	0	0	0	0	0
Aerospace medicine	0	0	0	0	0	0
Occupational and environmental medicine	3	0	1	1	0	1
Psychiatry	495	443	29	22	0	1
- Addiction medicine (multidisciplinary)	6	1	5	0	0	0
- Addiction psychiatry	3	0	2	1	0	0
- Child and adolescent psychiatry	20	5	15	0	0	0
- Forensic psychiatry	1	0	1	0	0	0
- Geriatric psychiatry	2	0	2	0	0	0
- Consultation-liaison psychiatry	1	0	1	0	0	0
Radiation oncology	4	1	1	2	0	0
Radiology-diagnostic	47	31	13	2	0	1
- Abdominal radiology	0	0	0	0	0	0
- Musculoskeletal radiology	0	0	0	0	0	0
- Neuroendovascular intervention	1	0	1	0	0	0
- Neuroradiology	3	0	3	0	0	0
- Nuclear radiology	0	0	0	0	0	0
- Pediatric radiology	0	0	0	0	0	0
Interventional radiology - independent	3	0	3	0	0	0
Interventional radiology - integrated	33	32	1	0	0	0
Surgery	254	112	120	19	0	3
- Complex general surgical oncology	0	0	0	0	0	0
- Hand surgery	0	0	0	0	0	0
- Pediatric surgery	0	0	0	0	0	0
- Surgical critical care	5	0	5	0	0	0
- Vascular surgery - independent	3	0	3	0	0	0
Vascular surgery - integrated	10	2	6	2	0	0
Thoracic surgery - independent	3	0	3	0	0	0
- Congenital cardiac surgery	2	0	2	0	0	0
Thoracic surgery - integrated	9	3	6	0	0	0
Urology	19	6	11	2	0	0
- Urogynecology and reconstructive pelvic surgery	0	0	0	0	0	0
- Pediatric urology	0	0	0	0	0	0
Transitional year	22	14	6	2	0	0
Internal medicine/Pediatrics	11	6	4	1	0	0
Health care administration, leadership, and management	0	0	0	0	0	0

Note: Pipeline specialties are highlighted.

Abbreviations: AY, academic year.

**TABLE D.14****Number of Transferring Residents by Specialty and Resident Year, 2023-2024 AY**

Specialty	Number of Transferring Residents	Resident Year					
		1	2	3	4	5	6
OVERALL	1,181	458	237	443	42	1	
Allergy and immunology	0						
Anesthesiology	24	13	7	3	1		
Colon and rectal surgery	0						
Dermatology	3	2	1				
Emergency medicine	44	31	12	1			
Family medicine	105	89	16				
Internal medicine	152	108	40	4			
Medical genetics and genomics	0						
Clinical biochemical genetics (Medical Related Specialty)	0						
Laboratory genetics and genomics (Medical Related Specialty)	0						
Neurological surgery	6	3	1		1	1	
Neurology	20	5	9	6			
Child neurology	1		1				
Nuclear medicine	6	6					
Obstetrics and gynecology	37	22	11	4			
Ophthalmology	1	1					
Orthopaedic surgery	29	13	10	6			
Osteopathic neuromusculoskeletal medicine	0						
Otolaryngology - head and neck surgery	6	1	4	1			
Pathology-anatomic and clinical	29	15	8	6			
Pediatrics	58	36	20	2			
Physical medicine and rehabilitation	7	4	2	1			
Plastic surgery	0						
Plastic Surgery - integrated	2		2				
Public health and general preventive medicine	1	1					
Aerospace medicine	0						
Occupational and environmental medicine	0						
Psychiatry	443	26	28	359	30		
Radiation oncology	1	1					
Radiology-diagnostic	31	14	8	9			
Interventional radiology - integrated	32	5	6	15	6		
Surgery	112	44	43	23	2		
Vascular surgery - integrated	2		2				
Thoracic surgery - independent	0						
Thoracic surgery - integrated	3	1		1	1		
Urology	6	2	2	1	1		
Transitional year	14	14					
Internal medicine/Pediatrics	6	1	4	1			

Abbreviations: AY, academic year.

**TABLE D15****Number of Transferring Residents by Specialty and New Specialty, 2023-2024 AY**

Specialty	Number of Transferring Residents	Transfer Specialty		Transfer Subspecialty	
		Same	Different	Same	Different
OVERALL	1,181	411	374	0	396
Allergy and immunology	0				
Anesthesiology	24	16	8	0	0
Colon and rectal surgery	0				
Dermatology	3	2	1	0	0
Emergency medicine	44	20	24	0	0
Family medicine	105	50	55	0	0
Internal medicine	152	90	59	0	3
Medical genetics and genomics	0				
Clinical biochemical genetics (Medical Related Specialty)	0				
Laboratory genetics and genomics (Medical Related Specialty)	0				
Neurological surgery	6	3	3	0	0
Neurology	20	7	9	0	4
Child neurology	1	0	1	0	0
Nuclear medicine	6	0	6	0	0
Obstetrics and gynecology	37	30	6	0	1
Ophthalmology	1	1	0	0	0
Orthopaedic surgery	29	19	10	0	0
Osteopathic neuromusculoskeletal medicine	0				
Otolaryngology - head and neck surgery	6	1	5	0	0
Pathology-anatomic and clinical	29	21	6	0	2
Pediatrics	58	30	24	0	4
Physical medicine and rehabilitation	7	3	4	0	0
Plastic surgery	0				
Plastic Surgery - Integrated	2	0	2	0	0
Public health and general preventive medicine	1	0	1	0	0
Aerospace medicine	0				
Occupational and environmental medicine	0				
Psychiatry	443	51	10	0	382
Radiation oncology	1	0	1	0	0
Radiology-diagnostic	31	19	12	0	0
Interventional radiology - integrated	32	8	24	0	0
Surgery	112	36	76	0	0
Vascular surgery - integrated	2	0	2	0	0
Thoracic surgery - independent	0				
Thoracic surgery - integrated	3	1	2	0	0
Urology	6	3	3	0	0
Transitional year	14	0	14	0	0
Internal medicine/Pediatrics	6	0	6	0	0

Abbreviations: AY, academic year.

**TABLE D.16****Number of Pipeline Graduates who Subspecialize, 2023-2024 AY**

Specialty	Total Pipeline Graduates	Subspecialized	
		#	%
Total Pipeline	35,042	10,824	30.9%
Anesthesiology	1,917	701	36.6%
Dermatology	541	119	22.0%
Emergency medicine	2,909	380	13.1%
Family medicine	4,823	466	9.7%
Internal medicine	9,976	4,081	40.9%
Medical genetics and genomics	26	7	26.9%
Neurological surgery	211	6	2.8%
Neurology	943	525	55.7%
Child neurology	163	82	50.3%
Nuclear medicine	38	6	15.8%
Obstetrics and gynecology	1,466	351	23.9%
Ophthalmology	512	2	0.4%
Orthopaedic surgery	866	423	48.8%
Osteopathic neuromusculoskeletal medicine	45	3	6.7%
Otolaryngology - head and neck surgery	347	46	13.3%
Pathology-anatomic and clinical	592	415	70.1%
Pediatrics	3,113	1,246	40.0%
Physical medicine and rehabilitation	496	265	53.4%
Plastic surgery	65	4	6.2%
Plastic Surgery - integrated	179	54	30.2%
Public health and general preventive medicine	90	9	10.0%
Aerospace medicine	27	0	0.0%
Occupational and environmental medicine	71	2	2.8%
Psychiatry	1,636	416	25.4%
Radiation oncology	198	1	0.5%
Radiology-diagnostic	1,160	358	30.9%
Interventional radiology - independent	136	1	0.7%
Interventional radiology - integrated	138	1	0.7%
Surgery	1,525	690	45.2%
Vascular surgery - integrated	60	4	6.7%
Thoracic surgery - integrated	31	1	3.2%
Urology	358	24	6.7%
Internal medicine/Pediatrics	384	135	35.2%

Abbreviations: AY, academic year.



# E Sponsoring Institutions

This section describes characteristics of ACGME-accredited Sponsoring Institutions. It includes the distribution of accreditation status decisions, information on sponsor size, geographic location, institution type, and designated institutional official (DIO) changes that occurred throughout the 2024-2025 academic year.

## Accredited Sponsors by Status

Of the 914 total ACGME-accredited Sponsoring Institutions, 117 (12.8%) are in the initial phase of accreditation, 767 (83.9%) have a status of Continued Accreditation, 22 (2.4%) have a status of Continued Accreditation with Warning, five (0.5%) are on probation, and three (0.3%) have a status of Withdrawal of Accreditation. Overall, there has been a 15.4% increase in number of sponsors since the 2015-2016 academic year (at that time the total number of Sponsoring Institutions was 792). Effective July 1, 2013, new policies required Sponsoring Institutions to become accredited prior to applying for program accreditation. Prior to that, the accreditation of the program and its Sponsoring Institution occurred simultaneously. This change, combined with Sponsoring Institutions seeking accreditation through the transition to a single GME accreditation system, may have led to the upward trend in total accredited Sponsoring Institutions.

## Distribution by Sponsor Size

Sponsoring Institutions with one program and those with two to five programs account for the majority of all Sponsoring Institutions (28.2% and 27.2%, respectively). The remaining Sponsoring Institutions with accredited programs all have more than five programs: 21.7% have between six and 25 programs; 6.8% have between 26 and 50 programs; 4.3% have between 51 and 75 programs; 2.1% have between 76 and 100 programs; and 3.6% have more than 100 programs. There are 56 (6.1%) Sponsoring Institutions that currently have no accredited programs.

## Geographic Distribution

There are ACGME-accredited Sponsoring Institutions in all 50 states, the District of Columbia, and Puerto Rico.

The following states have the highest total number of Sponsoring Institutions:

- California (117)
- New York (69)
- Florida (63)
- Texas (60)

The following states have the highest total number of multi-program Sponsoring Institutions:

- California (63)
- New York (51)
- Texas (40)
- Florida (35)
- Ohio (35)

Finally, the following states have the highest total number of single-program Sponsoring Institutions:

- California (42)
- Florida (21)
- Texas (15)
- New York (14)

Sponsors that do not yet have ACGME-accredited programs (56) are located in 24 states, with the highest number of these (12) located in California.

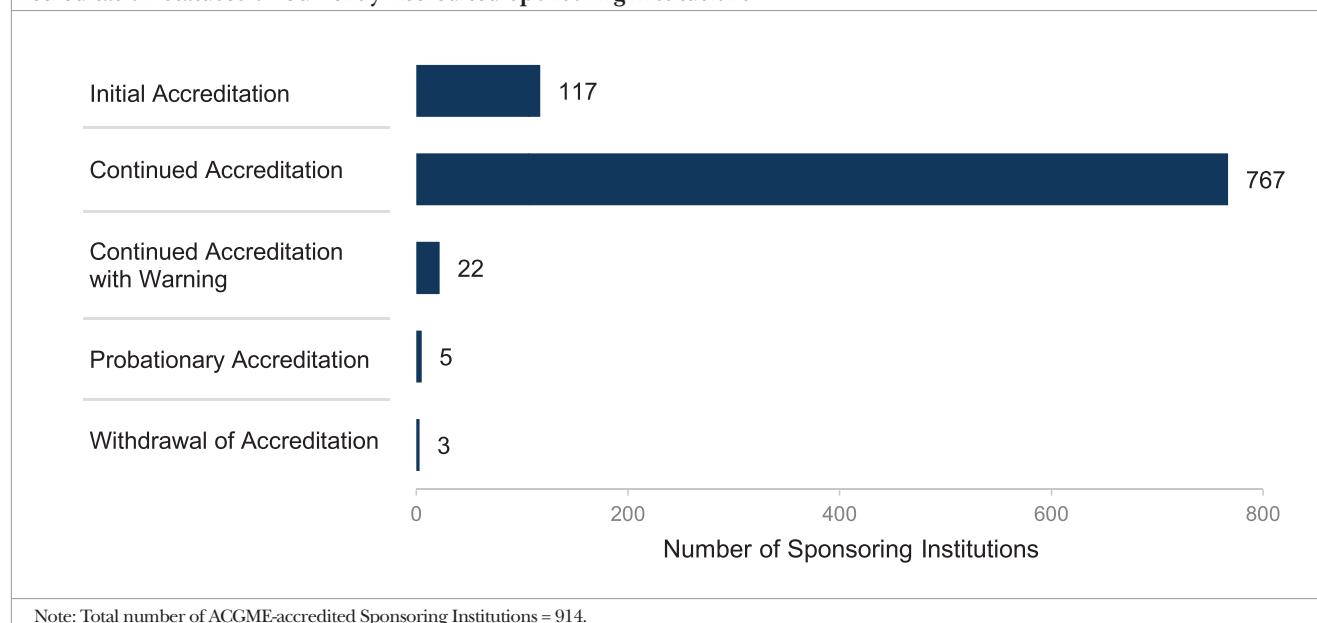
## Distribution by Institution Type

The type of institution is self-reported by Sponsoring Institutions. Approximately half of Sponsoring Institutions having at least one ACGME-accredited program (858) are reported as General Hospitals (406, 47.3%); the next largest group is Medical Schools (108, 12.6%).

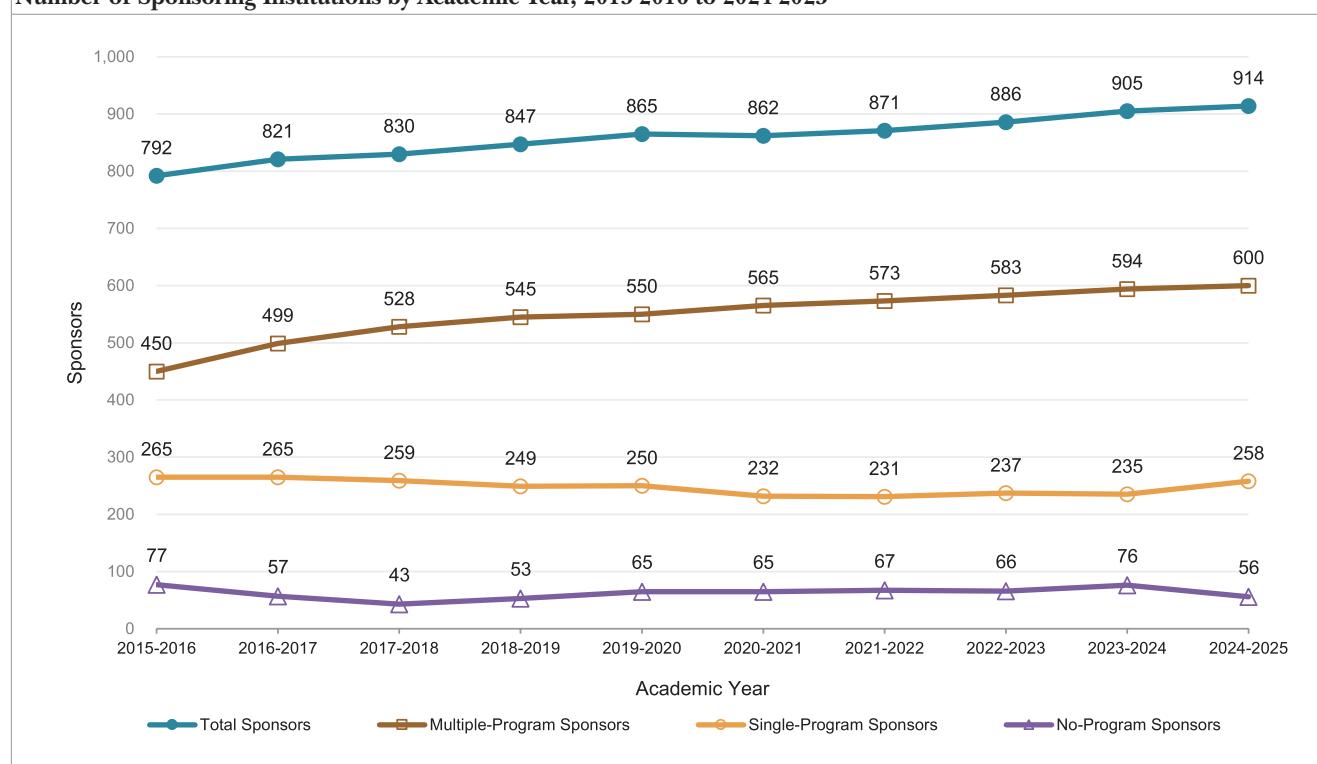
In the current reporting year, General Hospitals sponsor 5,031 programs and 61,917 residents, compared with Medical Schools, which sponsor 4,532 programs and 53,375 residents.

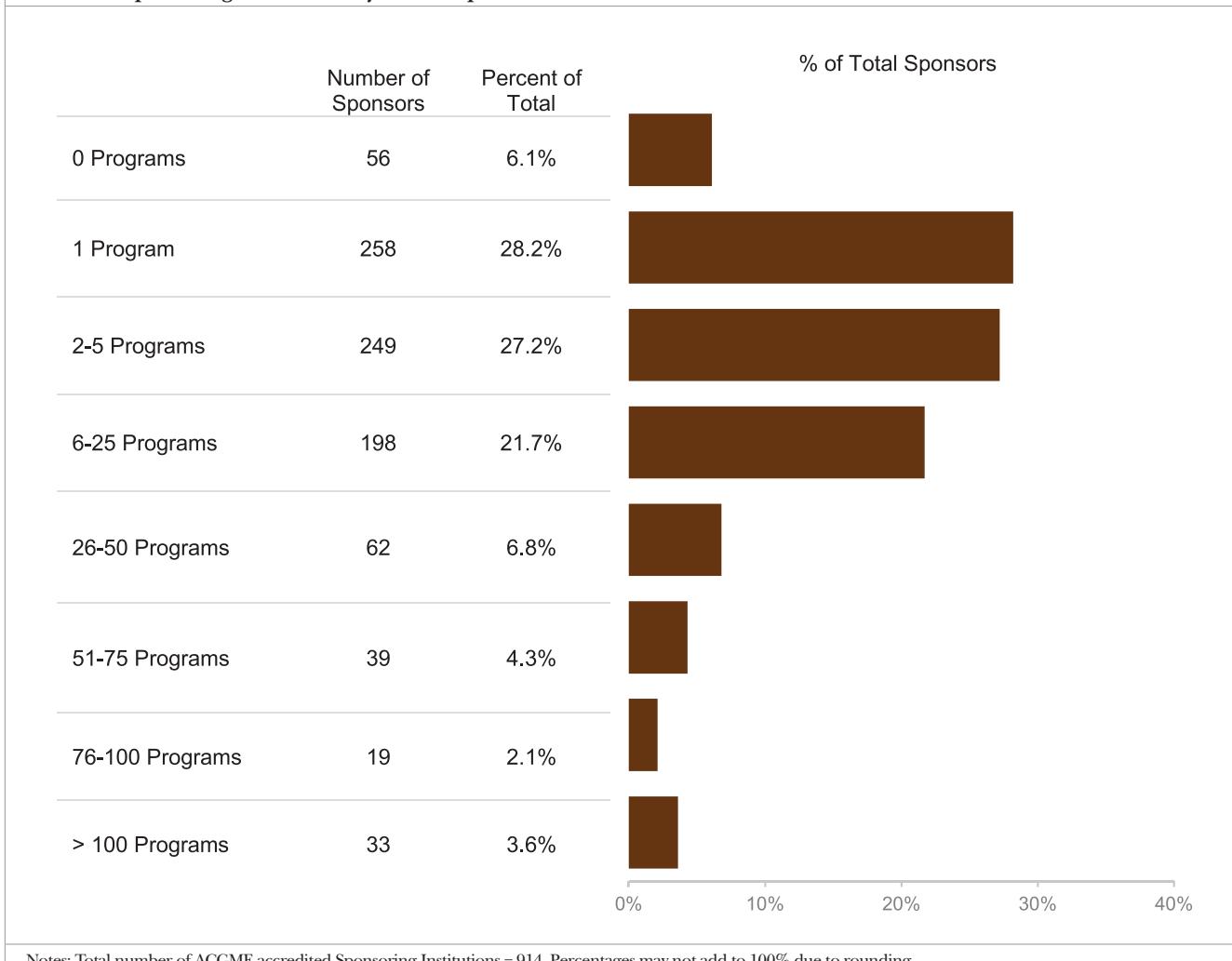
## DIO Changes

Each year since 2015-2016 between 12% and 16% of Sponsoring Institutions had a change in leadership in the DIO role (excluding Sponsoring Institutions with no accredited programs and any Sponsoring Institutions newly accredited in the academic year). In the 2024-2025 academic year, 106 (12.5%) Sponsoring Institutions had a single DIO change, and 10 (1.2%) had more than one DIO change.

**FIGURE E.1****Accreditation Statuses of Currently Accredited Sponsoring Institutions**

Note: Total number of ACGME-accredited Sponsoring Institutions = 914.

**FIGURE E.2****Number of Sponsoring Institutions by Academic Year, 2015-2016 to 2024-2025**

**FIGURE E.3****Number of Sponsoring Institutions by Size of Sponsor**

Notes: Total number of ACGME-accredited Sponsoring Institutions = 914. Percentages may not add to 100% due to rounding.

TABLE E.4

## Number of Sponsoring Institutions and Sponsoring Institution Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Total Sponsors	Percentage of All Sponsors	Sponsor Concentration per 100,000 Pop
OVERALL	-	343,314,283	914	100.0%	0.27
Alabama	AL	5,157,699	19	2.1%	0.37
Alaska	AK	740,133	1	0.1%	0.14
Arizona	AZ	7,582,384	14	1.5%	0.18
Arkansas	AR	3,088,354	9	1.0%	0.29
California	CA	39,431,263	117	12.8%	0.30
Colorado	CO	5,957,493	11	1.2%	0.18
Connecticut	CT	3,675,069	13	1.4%	0.35
Delaware	DE	1,051,917	5	0.5%	0.48
District of Columbia	DC	702,250	5	0.5%	0.71
Florida	FL	23,372,215	63	6.9%	0.27
Georgia	GA	11,180,878	32	3.5%	0.29
Hawaii	HI	1,446,146	5	0.5%	0.35
Idaho	ID	2,001,619	6	0.7%	0.30
Illinois	IL	12,710,158	32	3.5%	0.25
Indiana	IN	6,924,275	13	1.4%	0.19
Iowa	IA	3,241,488	7	0.8%	0.22
Kansas	KS	2,970,606	4	0.4%	0.13
Kentucky	KY	4,588,372	9	1.0%	0.20
Louisiana	LA	4,597,740	15	1.6%	0.33
Maine	ME	1,405,012	4	0.4%	0.28
Maryland	MD	6,263,220	16	1.8%	0.26
Massachusetts	MA	7,136,171	21	2.3%	0.29
Michigan	MI	10,140,459	39	4.3%	0.38
Minnesota	MN	5,793,151	8	0.9%	0.14
Mississippi	MS	2,943,045	12	1.3%	0.41
Missouri	MO	6,245,466	16	1.8%	0.26
Montana	MT	1,137,233	3	0.3%	0.26
Nebraska	NE	2,005,465	4	0.4%	0.20
Nevada	NV	3,267,467	7	0.8%	0.21
New Hampshire	NH	1,409,032	5	0.5%	0.35
New Jersey	NJ	9,500,851	20	2.2%	0.21
New Mexico	NM	2,130,256	7	0.8%	0.33
New York	NY	19,867,248	69	7.5%	0.35
North Carolina	NC	11,046,024	20	2.2%	0.18
North Dakota	ND	796,568	2	0.2%	0.25
Ohio	OH	11,883,304	41	4.5%	0.35
Oklahoma	OK	4,095,393	9	1.0%	0.22
Oregon	OR	4,272,371	5	0.5%	0.12
Pennsylvania	PA	13,078,751	46	5.0%	0.35
Puerto Rico	PR	3,203,295	15	1.6%	0.47
Rhode Island	RI	1,112,308	6	0.7%	0.54
South Carolina	SC	5,478,831	13	1.4%	0.24
South Dakota	SD	924,669	3	0.3%	0.32
Tennessee	TN	7,227,750	13	1.4%	0.18
Texas	TX	31,290,831	60	6.6%	0.19
Utah	UT	3,503,613	8	0.9%	0.23
Vermont	VT	648,493	2	0.2%	0.31
Virginia	VA	8,811,195	21	2.3%	0.24
Washington	WA	7,958,180	21	2.3%	0.26
West Virginia	WV	1,769,979	8	0.9%	0.45
Wisconsin	WI	5,960,975	9	1.0%	0.15
Wyoming	WY	587,618	1	0.1%	0.17

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE E.5

## Number of Multiple-Program Sponsoring Institutions and Multiple-Program Sponsoring Institution Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Multiple-Program Sponsors	Percentage of All Sponsors	Sponsor Concentration per 100,000 Pop
OVERALL	-	343,314,283	600	100.0%	0.17
Alabama	AL	5,157,699	11	1.8%	0.21
Alaska	AK	740,133	1	0.2%	0.14
Arizona	AZ	7,582,384	13	2.2%	0.17
Arkansas	AR	3,088,354	7	1.2%	0.23
California	CA	39,431,263	63	10.5%	0.16
Colorado	CO	5,957,493	7	1.2%	0.12
Connecticut	CT	3,675,069	11	1.8%	0.30
Delaware	DE	1,051,917	2	0.3%	0.19
District of Columbia	DC	702,250	4	0.7%	0.57
Florida	FL	23,372,215	35	5.8%	0.15
Georgia	GA	11,180,878	18	3.0%	0.16
Hawaii	HI	1,446,146	2	0.3%	0.14
Idaho	ID	2,001,619	3	0.5%	0.15
Illinois	IL	12,710,158	22	3.7%	0.17
Indiana	IN	6,924,275	7	1.2%	0.10
Iowa	IA	3,241,488	5	0.8%	0.15
Kansas	KS	2,970,606	3	0.5%	0.10
Kentucky	KY	4,588,372	4	0.7%	0.09
Louisiana	LA	4,597,740	8	1.3%	0.17
Maine	ME	1,405,012	3	0.5%	0.21
Maryland	MD	6,263,220	14	2.3%	0.22
Massachusetts	MA	7,136,171	14	2.3%	0.20
Michigan	MI	10,140,459	30	5.0%	0.30
Minnesota	MN	5,793,151	5	0.8%	0.09
Mississippi	MS	2,943,045	5	0.8%	0.17
Missouri	MO	6,245,466	8	1.3%	0.13
Montana	MT	1,137,233	2	0.3%	0.18
Nebraska	NE	2,005,465	2	0.3%	0.10
Nevada	NV	3,267,467	4	0.7%	0.12
New Hampshire	NH	1,409,032	2	0.3%	0.14
New Jersey	NJ	9,500,851	17	2.8%	0.18
New Mexico	NM	2,130,256	2	0.3%	0.09
New York	NY	19,867,248	51	8.5%	0.26
North Carolina	NC	11,046,024	17	2.8%	0.15
North Dakota	ND	796,568	1	0.2%	0.13
Ohio	OH	11,883,304	35	5.8%	0.29
Oklahoma	OK	4,095,393	6	1.0%	0.15
Oregon	OR	4,272,371	4	0.7%	0.09
Pennsylvania	PA	13,078,751	31	5.2%	0.24
Puerto Rico	PR	3,203,295	9	1.5%	0.28
Rhode Island	RI	1,112,308	5	0.8%	0.45
South Carolina	SC	5,478,831	11	1.8%	0.20
South Dakota	SD	924,669	2	0.3%	0.22
Tennessee	TN	7,227,750	10	1.7%	0.14
Texas	TX	31,290,831	40	6.7%	0.13
Utah	UT	3,503,613	4	0.7%	0.11
Vermont	VT	648,493	1	0.2%	0.15
Virginia	VA	8,811,195	14	2.3%	0.16
Washington	WA	7,958,180	12	2.0%	0.15
West Virginia	WV	1,769,979	4	0.7%	0.23
Wisconsin	WI	5,960,975	8	1.3%	0.13
Wyoming	WY	587,618	1	0.2%	0.17

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/posest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE E.6

## Number of Single-Program Sponsoring Institutions and Single-Program Sponsoring Institution Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	Single-Program Sponsors	Percentage of All Sponsors	Sponsor Concentration per 100,000 Pop
OVERALL	-	343,314,283	258	100.0%	0.08
Alabama	AL	5,157,699	6	2.3%	0.12
Alaska	AK	740,133	0	0.0%	0.00
Arizona	AZ	7,582,384	1	0.4%	0.01
Arkansas	AR	3,088,354	2	0.8%	0.06
California	CA	39,431,263	42	16.3%	0.11
Colorado	CO	5,957,493	4	1.6%	0.07
Connecticut	CT	3,675,069	2	0.8%	0.05
Delaware	DE	1,051,917	3	1.2%	0.29
District of Columbia	DC	702,250	1	0.4%	0.14
Florida	FL	23,372,215	21	8.1%	0.09
Georgia	GA	11,180,878	10	3.9%	0.09
Hawaii	HI	1,446,146	3	1.2%	0.21
Idaho	ID	2,001,619	2	0.8%	0.10
Illinois	IL	12,710,158	8	3.1%	0.06
Indiana	IN	6,924,275	6	2.3%	0.09
Iowa	IA	3,241,488	2	0.8%	0.06
Kansas	KS	2,970,606	0	0.0%	0.00
Kentucky	KY	4,588,372	4	1.6%	0.09
Louisiana	LA	4,597,740	6	2.3%	0.13
Maine	ME	1,405,012	1	0.4%	0.07
Maryland	MD	6,263,220	2	0.8%	0.03
Massachusetts	MA	7,136,171	7	2.7%	0.10
Michigan	MI	10,140,459	8	3.1%	0.08
Minnesota	MN	5,793,151	3	1.2%	0.05
Mississippi	MS	2,943,045	7	2.7%	0.24
Missouri	MO	6,245,466	8	3.1%	0.13
Montana	MT	1,137,233	1	0.4%	0.09
Nebraska	NE	2,005,465	2	0.8%	0.10
Nevada	NV	3,267,467	2	0.8%	0.06
New Hampshire	NH	1,409,032	3	1.2%	0.21
New Jersey	NJ	9,500,851	2	0.8%	0.02
New Mexico	NM	2,130,256	4	1.6%	0.19
New York	NY	19,867,248	14	5.4%	0.07
North Carolina	NC	11,046,024	3	1.2%	0.03
North Dakota	ND	796,568	1	0.4%	0.13
Ohio	OH	11,883,304	6	2.3%	0.05
Oklahoma	OK	4,095,393	2	0.8%	0.05
Oregon	OR	4,272,371	0	0.0%	0.00
Pennsylvania	PA	13,078,751	13	5.0%	0.10
Puerto Rico	PR	3,203,295	4	1.6%	0.12
Rhode Island	RI	1,112,308	1	0.4%	0.09
South Carolina	SC	5,478,831	1	0.4%	0.02
South Dakota	SD	924,669	1	0.4%	0.11
Tennessee	TN	7,227,750	2	0.8%	0.03
Texas	TX	31,290,831	15	5.8%	0.05
Utah	UT	3,503,613	2	0.8%	0.06
Vermont	VT	648,493	1	0.4%	0.15
Virginia	VA	8,811,195	6	2.3%	0.07
Washington	WA	7,958,180	8	3.1%	0.10
West Virginia	WV	1,769,979	4	1.6%	0.23
Wisconsin	WI	5,960,975	1	0.4%	0.02
Wyoming	WY	587,618	0	0.0%	0.00

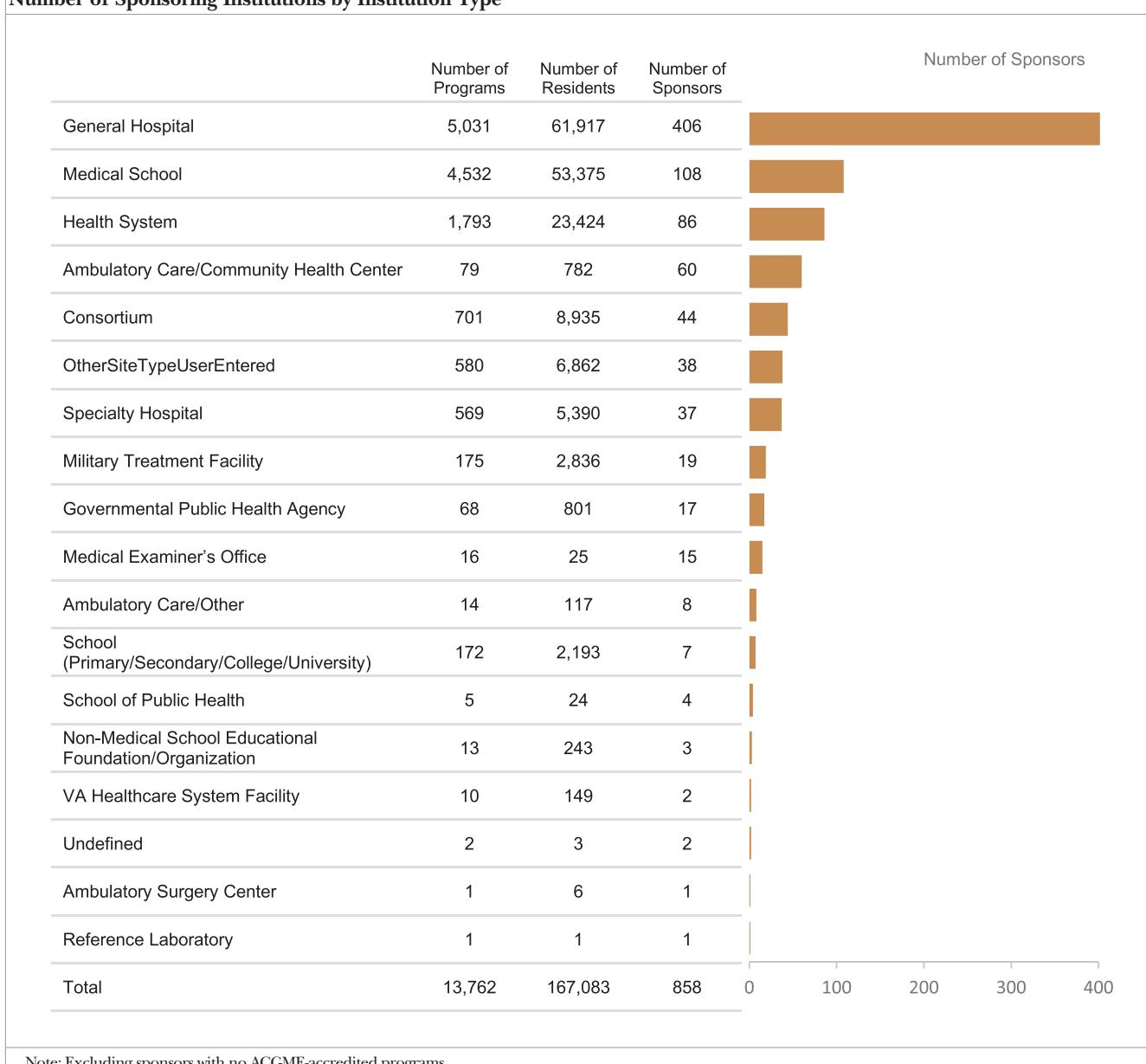
Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

TABLE E.7

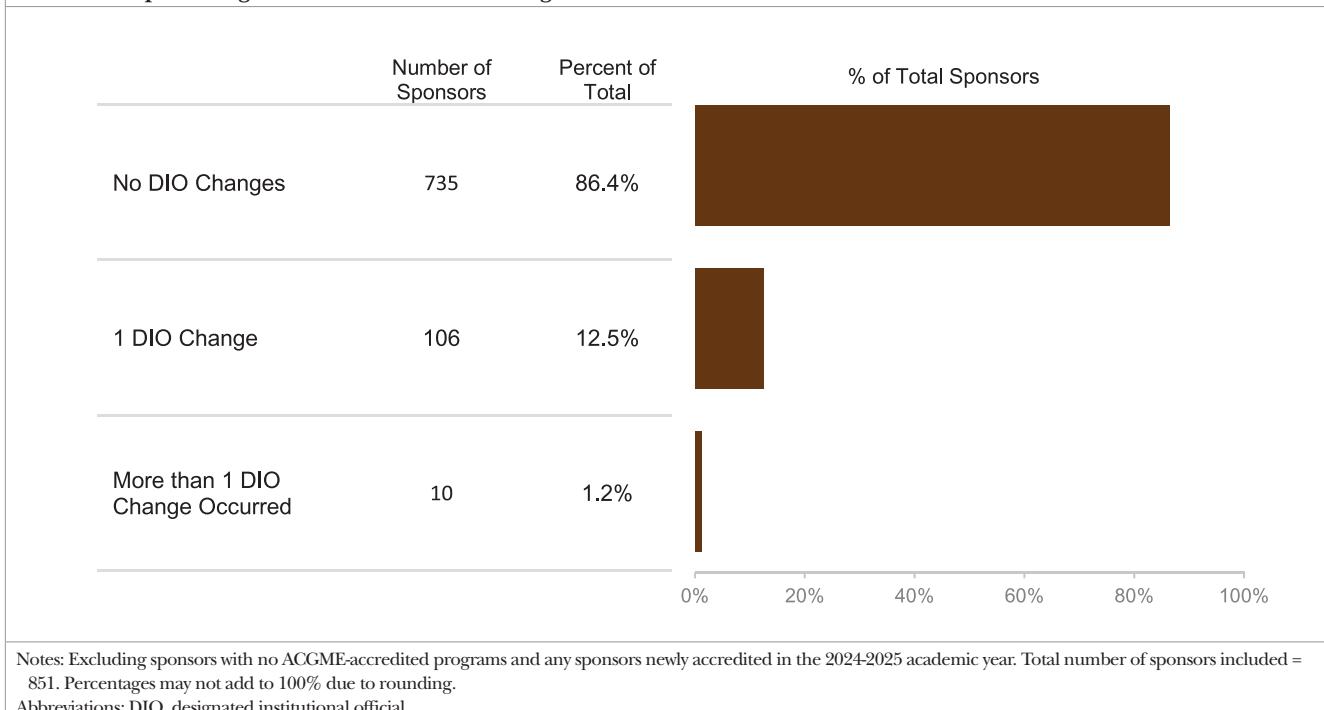
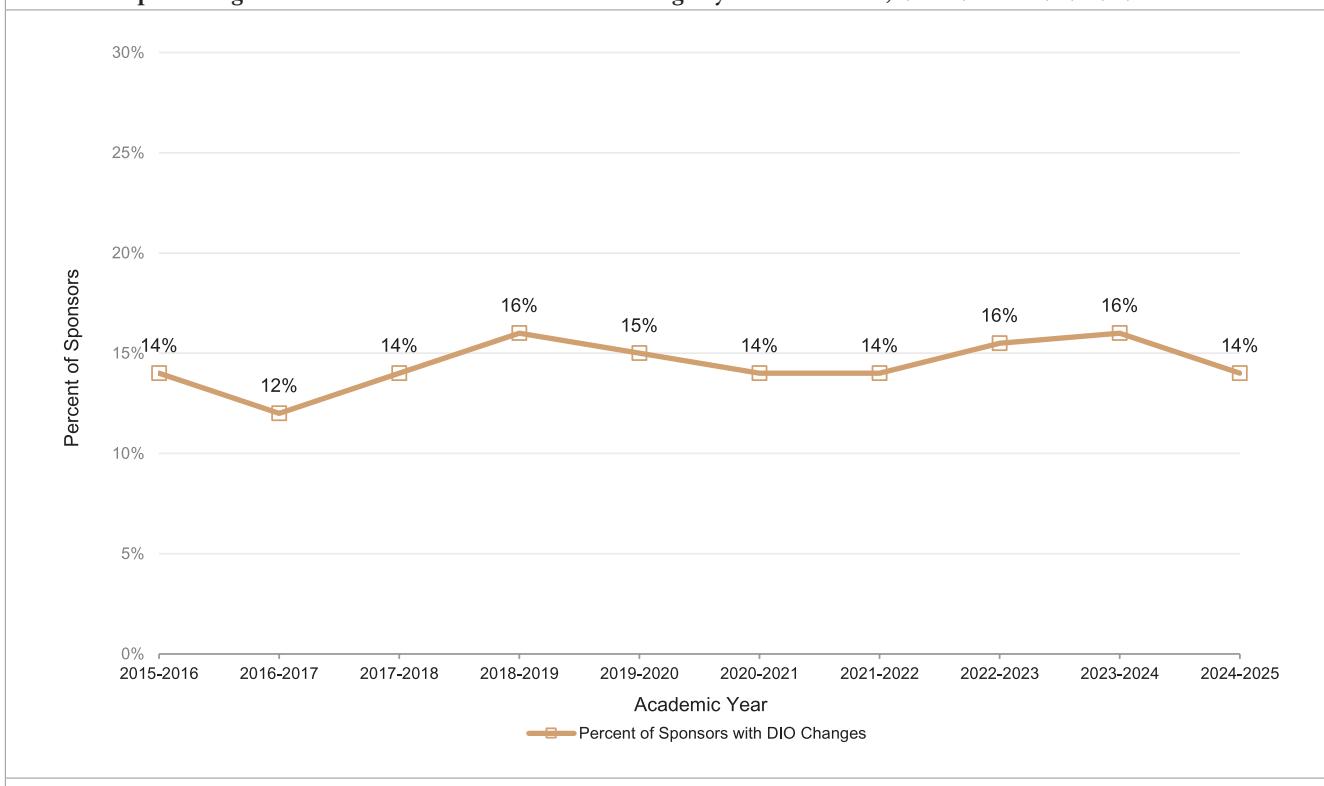
## Number of No-Program Sponsoring Institutions and No-Program Sponsoring Institution Concentration per 100,000 Population by State

State Name	State Abbreviation	State Population - Census Estimate 2024	No-Program Sponsors	Percentage of All Sponsors	Sponsor Concentration per 100,000 Pop
OVERALL	-	343,314,283	56	100.0%	0.02
Alabama	AL	5,157,699	2	3.6%	0.04
Alaska	AK	740,133	0	0.0%	0.00
Arizona	AZ	7,582,384	0	0.0%	0.00
Arkansas	AR	3,088,354	0	0.0%	0.00
California	CA	39,431,263	12	21.4%	0.03
Colorado	CO	5,957,493	0	0.0%	0.00
Connecticut	CT	3,675,069	0	0.0%	0.00
Delaware	DE	1,051,917	0	0.0%	0.00
District of Columbia	DC	702,250	0	0.0%	0.00
Florida	FL	23,372,215	7	12.5%	0.03
Georgia	GA	11,180,878	4	7.1%	0.04
Hawaii	HI	1,446,146	0	0.0%	0.00
Idaho	ID	2,001,619	1	1.8%	0.05
Illinois	IL	12,710,158	2	3.6%	0.02
Indiana	IN	6,924,275	0	0.0%	0.00
Iowa	IA	3,241,488	0	0.0%	0.00
Kansas	KS	2,970,606	1	1.8%	0.03
Kentucky	KY	4,588,372	1	1.8%	0.02
Louisiana	LA	4,597,740	1	1.8%	0.02
Maine	ME	1,405,012	0	0.0%	0.00
Maryland	MD	6,263,220	0	0.0%	0.00
Massachusetts	MA	7,136,171	0	0.0%	0.00
Michigan	MI	10,140,459	1	1.8%	0.01
Minnesota	MN	5,793,151	0	0.0%	0.00
Mississippi	MS	2,943,045	0	0.0%	0.00
Missouri	MO	6,245,466	0	0.0%	0.00
Montana	MT	1,137,233	0	0.0%	0.00
Nebraska	NE	2,005,465	0	0.0%	0.00
Nevada	NV	3,267,467	1	1.8%	0.03
New Hampshire	NH	1,409,032	0	0.0%	0.00
New Jersey	NJ	9,500,851	1	1.8%	0.01
New Mexico	NM	2,130,256	1	1.8%	0.05
New York	NY	19,867,248	4	7.1%	0.02
North Carolina	NC	11,046,024	0	0.0%	0.00
North Dakota	ND	796,568	0	0.0%	0.00
Ohio	OH	11,883,304	0	0.0%	0.00
Oklahoma	OK	4,095,393	1	1.8%	0.02
Oregon	OR	4,272,371	1	1.8%	0.02
Pennsylvania	PA	13,078,751	2	3.6%	0.02
Puerto Rico	PR	3,203,295	2	3.6%	0.06
Rhode Island	RI	1,112,308	0	0.0%	0.00
South Carolina	SC	5,478,831	1	1.8%	0.02
South Dakota	SD	924,669	0	0.0%	0.00
Tennessee	TN	7,227,750	1	1.8%	0.01
Texas	TX	31,290,831	5	8.9%	0.02
Utah	UT	3,503,613	2	3.6%	0.06
Vermont	VT	648,493	0	0.0%	0.00
Virginia	VA	8,811,195	1	1.8%	0.01
Washington	WA	7,958,180	1	1.8%	0.01
West Virginia	WV	1,769,979	0	0.0%	0.00
Wisconsin	WI	5,960,975	0	0.0%	0.00
Wyoming	WY	587,618	0	0.0%	0.00

Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, District of Columbia, and Puerto Rico: April 1, 2023 to July 1, 2024. <https://www2.census.gov/programs-surveys/posest/datasets/2020-2024/state/totals/NST-EST2024-ALLDATA.csv>. Published March, 2025. Accessed June 23, 2025; SAS Enterprise Guide Software, Version 7.1.

**FIGURE E.8****Number of Sponsoring Institutions by Institution Type**

Note: Excluding sponsors with no ACGME-accredited programs.

**FIGURE E.9****Number of Sponsoring Institutions with DIO Changes****FIGURE E.10****Percent of Sponsoring Institutions with at Least One DIO Change by Academic Year, 2015-2016 to 2024-2025**



# F

# Participating Sites

This section includes information and trends on the number of unique participating sites in which residents rotate. The total and average number of sites used by programs in each specialty and subspecialty are also reported.

## Distribution by Institution Type

There were a total of 10,585 unique participating sites in which residents rotated during the 2024-2025 academic year.

Since the 2015-2016 academic year, there has been a 104.0% increase in the total number of sites listed by programs as places of rotation.

## Number of Sites per Program

Overall, the average number of participating sites listed per program is 3.3. Among pipeline specialty programs, the average number of participating sites per program is 4.4. The pipeline specialties with the highest average number of participating sites include:

- Aerospace medicine (7.4)
- Occupational and environmental medicine (6.6)
- Physical medicine and rehabilitation (6.0)
- Public health and general preventive medicine (6.0)
- Plastic surgery – integrated (5.9)
- Orthopaedic surgery (5.9)
- Psychiatry (5.7)

The pipeline specialties with the highest maximum number of participating sites per program include:

- Family medicine (26)
- Internal medicine (21)
- Orthopaedic surgery (18)
- Obstetrics and gynecology (17)
- Emergency medicine (16)

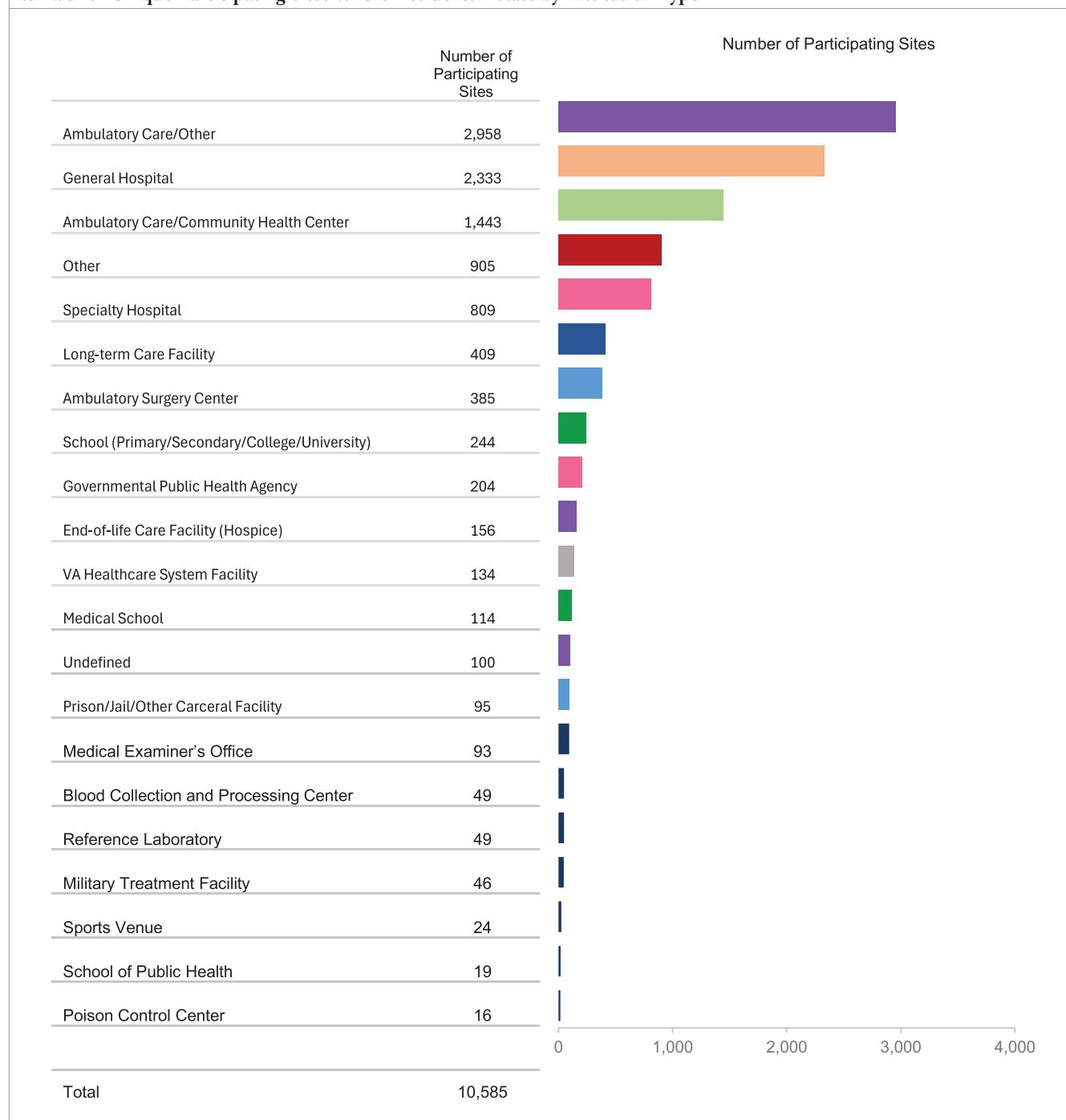
The subspecialty with the highest average number of participating sites per program is the surgical subspecialty of hand surgery at 6.0. The emergency medicine subspecialty of sports medicine have the largest number of participating sites per program (22).

## Number of Sites by Specialty and Subspecialty

The specialties with the highest number of unique participating sites to which residents rotate include:

- Family medicine (3,287)
- Internal medicine (2,168)
- Psychiatry (1,722)

Sponsoring Institutions account for 5.2% of all participating sites with 546 listed as participating sites. ↗

**FIGURE F.1****Number of Unique Participating Sites Where Residents Rotate by Institution Type**

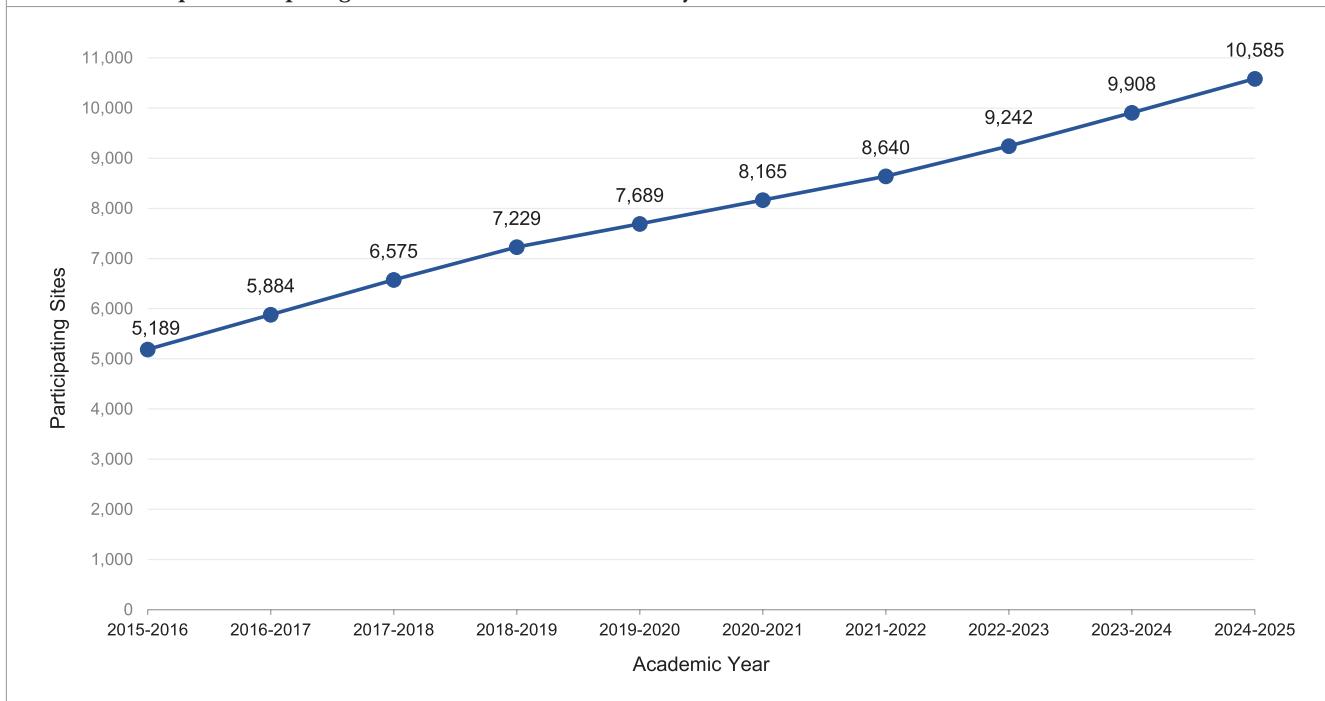
**FIGURE F.2****Number of Unique Participating Sites Where Residents Rotate by Academic Year, 2015-2016 to 2024-2025**

TABLE E.3

## Mean Number of Participating Sites per Program where Residents Rotate by Specialty and Subspecialty

Specialty	Total Programs	Number of Participating Sites per Program			
		AVG	STD	MIN	MAX
OVERALL	13,762	3.3	2.4	1	26
TOTAL PIPELINE	5,622	4.4	2.7	1	26
Allergy and immunology	92	2.8	1.3	1	6
Anesthesiology	182	4.1	2.0	1	12
- Adult cardiothoracic anesthesiology	76	1.7	0.8	1	5
- Critical care medicine	68	1.8	0.9	1	4
- Obstetric anesthesiology	45	1.4	0.5	1	3
- Pain medicine (multidisciplinary)	118	2.7	1.5	1	11
- Pediatric anesthesiology	64	1.5	0.8	1	4
- Pediatric cardiac anesthesiology	15	1.1	0.2	1	2
- Regional anesthesiology and acute pain medicine	46	2.3	1.4	1	6
Colon and rectal surgery	74	2.9	1.7	1	9
Dermatology	145	4.4	2.5	1	13
- Dermatopathology (multidisciplinary)	58	1.9	0.9	1	4
- Micrographic surgery and dermatologic oncology	84	2.2	1.2	1	6
- Pediatric dermatology	37	1.9	1.0	1	4
Emergency medicine	297	4.4	1.9	1	16
- Emergency medical services	88	3.7	2.5	1	12
- Medical toxicology	32	3.2	1.4	1	7
- Pediatric emergency medicine	30	2.7	1.2	1	5
- Sports medicine	11	5.9	5.9	1	22
- Undersea and hyperbaric medicine	8	1.8	0.7	1	3
Family medicine	817	5.1	3.7	1	26
- Clinical informatics	10	2.7	2.3	1	9
- Geriatric medicine	44	4.4	2.1	1	9
- Hospice and palliative medicine (multidisciplinary)	190	4.5	1.7	1	11
- Sports medicine	173	3.9	2.8	1	13
Internal medicine	688	3.7	3.0	1	21
- Adult congenital heart disease	32	1.9	0.8	1	3
- Advanced heart failure and transplant cardiology	84	1.4	0.5	1	3
- Cardiovascular disease	294	2.8	1.4	1	9
- Clinical cardiac electrophysiology	122	1.8	0.8	1	5
- Clinical informatics	31	2.5	1.8	1	7
- Critical care medicine	79	2.5	1.3	1	6
- Endocrinology, diabetes, and metabolism	163	2.8	1.5	1	10
- Gastroenterology	242	3.1	1.5	1	11
- Geriatric medicine	118	4.0	2.1	1	13
- Hematology and medical oncology	195	3.0	1.4	1	10
- Infectious disease	170	3.0	1.2	1	7
- Interventional cardiology	189	1.7	0.9	1	5
- Interventional pulmonology	41	1.5	0.8	1	4
- Medical oncology	1	3.0	0.0	3	3
- Nephrology	152	3.1	1.4	1	10
- Pulmonary disease	16	2.9	1.7	1	7
- Pulmonary disease and critical care medicine	219	3.2	1.5	1	7
- Rheumatology	138	2.7	1.2	1	8
- Sleep medicine (multidisciplinary)	99	2.6	1.2	1	5
- Transplant hepatology	70	1.4	0.6	1	4
Medical genetics and genomics	44	3.3	1.8	1	8
- Medical biochemical genetics	22	2.2	1.2	1	5
- Molecular genetic pathology (multidisciplinary)	44	1.8	1.0	1	5
Clinical biochemical genetics	14	2.5	1.6	1	7
Laboratory genetics and genomics	38	2.2	1.1	1	5
Neurological surgery	119	3.5	1.6	1	10
- Neuroendovascular intervention	3	1.7	0.9	1	3

TABLE F.3 *Continued*

## Mean Number of Participating Sites per Program where Residents Rotate by Specialty and Subspecialty

Specialty	Total Programs	Number of Participating Sites per Program			
		AVG	STD	MIN	MAX
Neurology	197	3.6	2.0	1	13
- Clinical neurophysiology	98	2.1	1.2	1	6
- Epilepsy	100	2.1	1.0	1	5
- Neurocritical care (multidisciplinary)	65	1.6	0.7	1	3
- Neuroendovascular intervention	2	2.0	1.0	1	3
- Neurodevelopmental disabilities	11	3.5	1.5	1	5
- Neuromuscular medicine	59	2.3	1.1	1	6
- Vascular neurology	115	1.8	0.9	1	5
Child neurology	83	2.8	1.4	1	7
Nuclear medicine	33	2.5	1.4	1	7
Obstetrics and gynecology	303	4.5	2.5	1	17
- Urogynecology and reconstructive pelvic surgery	59	2.6	1.4	1	6
- Gynecologic oncology	75	2.2	1.1	1	6
- Maternal-fetal medicine	114	2.1	1.1	1	6
- Reproductive endocrinology and infertility	52	2.7	1.7	1	7
- Complex family planning	36	2.8	1.1	1	5
Ophthalmology	128	4.3	2.4	1	15
- Ophthalmic plastic and reconstructive surgery	4	5.3	2.6	2	9
Orthopaedic surgery	209	5.9	2.8	1	18
- Adult reconstructive orthopaedics	26	2.4	1.3	1	5
- Foot and ankle orthopaedics	9	2.9	1.7	1	6
- Hand surgery	77	4.2	2.6	1	14
- Musculoskeletal oncology	12	2.1	1.0	1	4
- Orthopaedic sports medicine	95	3.4	2.6	1	16
- Orthopaedic surgery of the spine	16	2.1	1.2	1	5
- Orthopaedic trauma	13	2.0	1.2	1	5
- Pediatric orthopaedics	25	1.4	0.7	1	3
Osteopathic neuromusculoskeletal medicine	26	4.8	2.6	1	11
Otolaryngology - head and neck surgery	131	4.7	2.3	1	13
- Neurotology	29	2.8	1.6	1	6
- Pediatric otolaryngology	34	1.3	0.5	1	3
Pathology-anatomic and clinical	142	4.0	1.9	1	12
- Blood banking/transfusion medicine	57	3.0	1.3	1	7
- Clinical informatics	10	1.8	1.0	1	4
- Chemical pathology	4	1.3	0.4	1	2
- Cytopathology	91	1.5	0.7	1	4
- Forensic pathology	52	1.6	0.9	1	4
- Hematopathology	86	1.8	0.9	1	5
- Medical microbiology	16	1.8	0.9	1	4
- Neuropathology	41	2.1	1.2	1	5
- Pediatric pathology	27	2.1	0.8	1	4
- Selective pathology	134	1.4	0.6	1	4
Pediatrics	217	2.9	1.6	1	10
- Adolescent medicine	33	2.7	2.2	1	10
- Child abuse pediatrics	34	2.6	1.6	1	9
- Clinical informatics	11	2.4	1.1	1	4
- Developmental-behavioral pediatrics	46	1.9	1.2	1	5
- Neonatal-perinatal medicine	110	2.3	1.0	1	6
- Pediatric cardiology	64	1.5	0.8	1	4
- Pediatric critical care medicine	78	1.5	0.7	1	4
- Pediatric emergency medicine	60	3.0	1.3	1	7
- Pediatric endocrinology	72	1.7	0.8	1	4
- Pediatric gastroenterology	69	1.7	0.9	1	5
- Pediatric hematology/oncology	79	1.8	0.9	1	4
- Pediatric infectious diseases	65	2.0	1.1	1	6

**TABLE F.3 *Continued*****Mean Number of Participating Sites per Program where Residents Rotate by Specialty and Subspecialty**

Specialty	Total Programs	Number of Participating Sites per Program			
		AVG	STD	MIN	MAX
- Pediatric nephrology	49	1.6	0.8	1	3
- Pediatric pulmonology	58	1.6	0.8	1	5
- Pediatric rheumatology	39	1.7	1.0	1	6
- Sports medicine	17	4.0	2.4	1	10
- Pediatric transplant hepatology	17	1.7	0.6	1	3
- Pediatric hospital medicine	80	2.8	0.8	2	5
Physical medicine and rehabilitation	112	6.0	3.0	1	21
- Brain injury medicine	29	2.9	0.8	2	4
- Neuromuscular medicine	1	3.0	0.0	3	3
- Spinal cord injury medicine	26	2.8	0.9	1	5
- Pediatric rehabilitation medicine	24	2.1	1.0	1	4
- Sports medicine	24	3.6	2.0	1	8
Plastic surgery	49	5.4	2.5	1	16
- Craniofacial surgery	9	1.8	0.9	1	4
- Hand surgery	19	2.8	1.2	1	5
Plastic Surgery - integrated	89	5.9	2.4	1	14
Public health and general preventive medicine	40	6.0	3.7	1	22
- Undersea and hyperbaric medicine	1	1.0	0.0	1	1
Aerospace medicine	5	7.4	1.7	6	10
Occupational and environmental medicine	22	6.6	4.0	2	17
Psychiatry	353	5.7	3.0	1	19
- Addiction medicine (multidisciplinary)	108	4.2	2.3	1	11
- Addiction psychiatry	54	4.0	2.1	1	13
- Child and adolescent psychiatry	158	4.8	3.0	1	16
- Forensic psychiatry	60	4.0	1.5	2	8
- Geriatric psychiatry	60	3.7	1.8	1	11
- Consultation-liaison psychiatry	69	2.1	0.9	1	5
Radiation oncology	87	2.9	1.5	1	8
Radiology-diagnostic	200	3.4	1.8	1	13
- Abdominal radiology	13	1.7	0.9	1	4
- Musculoskeletal radiology	23	1.7	1.0	1	4
- Neuroendovascular intervention	5	1.6	0.8	1	3
- Neuroradiology	93	2.1	1.1	1	6
- Nuclear radiology	19	1.9	1.4	1	7
- Pediatric radiology	48	1.4	0.7	1	4
Interventional radiology - independent	91	2.8	1.6	1	9
Interventional radiology - integrated	101	3.7	1.9	1	11
Surgery	365	5.3	2.1	1	14
- Complex general surgical oncology	35	2.6	1.4	1	7
- Hand surgery	2	6.0	3.0	3	9
- Pediatric surgery	52	1.6	0.8	1	4
- Surgical critical care	171	1.7	0.9	1	4
- Vascular surgery - independent	123	2.8	1.6	1	10
Vascular surgery - integrated	81	3.7	1.6	1	9
Thoracic surgery - independent	79	2.8	1.2	1	6
- Congenital cardiac surgery	17	1.4	0.5	1	2
Thoracic surgery - integrated	36	4.1	1.5	2	8
Urology	152	4.2	1.6	1	9
- Urogynecology and reconstructive pelvic surgery	16	2.8	1.9	1	7
- Pediatric urology	28	1.4	0.6	1	3
Transitional year	201	2.3	1.6	1	10
Internal medicine/Pediatrics	78	3.5	1.7	1	9
Health care administration, leadership, and management	9	1.9	1.3	1	5

Note: Pipeline specialties are highlighted.

TABLE F.4

## Total Number of Participating Sites and Number of Sponsoring Institutions where Residents Rotate by Specialty and Subspecialty

Specialty	Total Participating Sites	Sponsors	
		#	%
OVERALL	10,585	546	5.2%
TOTAL PIPELINE	8,050	492	6.1%
Allergy and immunology	227	38	16.7%
Anesthesiology	592	63	10.6%
- Adult cardiothoracic anesthesiology	122	33	27.0%
- Critical care medicine	123	26	21.1%
- Obstetric anesthesiology	60	19	31.7%
- Pain medicine (multidisciplinary)	296	51	17.2%
- Pediatric anesthesiology	91	19	20.9%
- Pediatric cardiac anesthesiology	16	6	37.5%
- Regional anesthesiology and acute pain medicine	102	19	18.6%
Colon and rectal surgery	209	30	14.4%
Dermatology	579	55	9.5%
- Dermatopathology (multidisciplinary)	107	26	24.3%
- Micrographic surgery and dermatologic oncology	184	36	19.6%
- Pediatric dermatology	69	11	15.9%
Emergency medicine	938	116	12.4%
- Emergency medical services	318	36	11.3%
- Medical toxicology	99	10	10.1%
- Pediatric emergency medicine	74	11	14.9%
- Sports medicine	65	1	1.5%
- Undersea and hyperbaric medicine	13	5	38.5%
Family medicine	3,287	302	9.2%
- Clinical informatics	27	4	14.8%
- Geriatric medicine	192	20	10.4%
- Hospice and palliative medicine (multidisciplinary)	727	75	10.3%
- Sports medicine	658	69	10.5%
Internal medicine	2,168	272	12.5%
- Adult congenital heart disease	61	10	16.4%
- Advanced heart failure and transplant cardiology	112	26	23.2%
- Cardiovascular disease	659	111	16.8%
- Clinical cardiac electrophysiology	210	47	22.4%
- Clinical informatics	76	12	15.8%
- Critical care medicine	183	33	18.0%
- Endocrinology, diabetes, and metabolism	414	66	15.9%
- Gastroenterology	613	94	15.3%
- Geriatric medicine	456	45	9.9%
- Hematology and medical oncology	464	83	17.9%
- Infectious disease	436	67	15.4%
- Interventional cardiology	322	74	23.0%
- Interventional pulmonology	63	21	33.3%
- Medical oncology	3	0	0.0%
- Nephrology	415	61	14.7%
- Pulmonary disease	45	11	24.4%
- Pulmonary disease and critical care medicine	580	87	15.0%
- Rheumatology	342	50	14.6%
- Sleep medicine (multidisciplinary)	247	40	16.2%
- Transplant hepatology	95	28	29.5%
Medical genetics and genomics	132	23	17.4%
- Medical biochemical genetics	45	10	22.2%
- Molecular genetic pathology (multidisciplinary)	74	18	24.3%
Clinical biochemical genetics	34	8	23.5%
Laboratory genetics and genomics	77	19	24.7%
Neurological surgery	352	46	13.1%
- Neuroendovascular intervention	5	1	20.0%

**TABLE F.4 *Continued*****Total Number of Participating Sites and Number of Sponsoring Institutions where Residents Rotate by Specialty and Subspecialty**

Specialty	Total Participating Sites	Sponsors	
		#	%
Neurology	601	74	12.3%
- Clinical neurophysiology	191	39	20.4%
- Epilepsy	174	38	21.8%
- Neurocritical care (multidisciplinary)	101	26	25.7%
- Neuroendovascular intervention	4	0	0.0%
- Neurodevelopmental disabilities	38	5	13.2%
- Neuromuscular medicine	127	30	23.6%
- Vascular neurology	209	48	23.0%
Child neurology	223	33	14.8%
Nuclear medicine	79	11	13.9%
Obstetrics and gynecology	1,181	128	10.8%
- Urogynecology and reconstructive pelvic surgery	155	27	17.4%
- Gynecologic oncology	164	30	18.3%
- Maternal-fetal medicine	231	44	19.0%
- Reproductive endocrinology and infertility	137	22	16.1%
- Complex family planning	99	12	12.1%
Ophthalmology	500	47	9.4%
- Ophthalmic plastic and reconstructive surgery	21	1	4.8%
Orthopaedic surgery	995	80	8.0%
- Adult reconstructive orthopaedics	57	8	14.0%
- Foot and ankle orthopaedics	26	6	23.1%
- Hand surgery	309	30	9.7%
- Musculoskeletal oncology	25	5	20.0%
- Orthopaedic sports medicine	309	40	12.9%
- Orthopaedic surgery of the spine	34	9	26.5%
- Orthopaedic trauma	26	6	23.1%
- Pediatric orthopaedics	36	10	27.8%
Osteopathic neuromusculoskeletal medicine	123	10	8.1%
Otolaryngology - head and neck surgery	523	51	9.8%
- Neurotology	82	12	14.6%
- Pediatric otolaryngology	45	11	24.4%
Pathology-anatomic and clinical	461	54	11.7%
- Blood banking/transfusion medicine	152	26	17.1%
- Clinical informatics	18	2	11.1%
- Chemical pathology	5	2	40.0%
- Cytopathology	126	39	31.0%
- Forensic pathology	76	20	26.3%
- Hematopathology	142	38	26.8%
- Medical microbiology	28	8	28.6%
- Neuropathology	80	17	21.2%
- Pediatric pathology	58	11	19.0%
- Selective pathology	80	21	26.3%
Pediatrics	515	97	18.8%
- Adolescent medicine	87	13	14.9%
- Child abuse pediatrics	87	13	14.9%
- Clinical informatics	26	7	26.9%
- Developmental-behavioral pediatrics	85	17	20.0%
- Neonatal-perinatal medicine	227	42	18.5%
- Pediatric cardiology	95	24	25.3%
- Pediatric critical care medicine	105	28	26.7%
- Pediatric emergency medicine	162	26	16.0%
- Pediatric endocrinology	115	28	24.3%
- Pediatric gastroenterology	108	28	25.9%
- Pediatric hematology/oncology	133	32	24.1%
- Pediatric infectious diseases	119	26	21.8%

TABLE F.4 *Continued***Total Number of Participating Sites and Number of Sponsoring Institutions where Residents Rotate by Specialty and Subspecialty**

Specialty	Total Participating Sites	Sponsors	
		#	%
- Pediatric nephrology	77	20	26.0%
- Pediatric pulmonology	89	22	24.7%
- Pediatric rheumatology	66	14	21.2%
- Sports medicine	68	11	16.2%
- Pediatric transplant hepatology	29	5	17.2%
- Pediatric hospital medicine	221	28	12.7%
Physical medicine and rehabilitation	599	42	7.0%
- Brain injury medicine	81	7	8.6%
- Neuromuscular medicine	3	0	0.0%
- Spinal cord injury medicine	71	5	7.0%
- Pediatric rehabilitation medicine	49	6	12.2%
- Sports medicine	84	4	4.8%
Plastic surgery	247	17	6.9%
- Craniofacial surgery	16	3	18.8%
- Hand surgery	53	5	9.4%
Plastic Surgery - integrated	475	35	7.4%
Public health and general preventive medicine	221	20	9.0%
- Undersea and hyperbaric medicine	1	1	100.0%
Aerospace medicine	32	3	9.4%
Occupational and environmental medicine	138	10	7.2%
Psychiatry	1,722	147	8.5%
- Addiction medicine (multidisciplinary)	436	44	10.1%
- Addiction psychiatry	211	19	9.0%
- Child and adolescent psychiatry	710	57	8.0%
- Forensic psychiatry	227	23	10.1%
- Geriatric psychiatry	217	21	9.7%
- Consultation-liaison psychiatry	143	31	21.7%
Radiation oncology	227	37	16.3%
Radiology-diagnostic	528	82	15.5%
- Abdominal radiology	22	5	22.7%
- Musculoskeletal radiology	39	9	23.1%
- Neuroendovascular intervention	8	2	25.0%
- Neuroradiology	177	36	20.3%
- Nuclear radiology	36	10	27.8%
- Pediatric radiology	64	18	28.1%
Interventional radiology - independent	240	36	15.0%
Interventional radiology - integrated	338	37	10.9%
Surgery	1,308	143	10.9%
- Complex general surgical oncology	89	12	13.5%
- Hand surgery	12	1	8.3%
- Pediatric surgery	80	16	20.0%
- Surgical critical care	257	61	23.7%
- Vascular surgery - independent	340	50	14.7%
Vascular surgery - integrated	291	34	11.7%
Thoracic surgery - independent	208	35	16.8%
- Congenital cardiac surgery	23	6	26.1%
Thoracic surgery - integrated	146	16	11.0%
Urology	566	61	10.8%
- Urogynecology and reconstructive pelvic surgery	44	7	15.9%
- Pediatric urology	39	9	23.1%
Transitional year	453	78	17.2%
Internal medicine/Pediatrics	270	25	9.3%
Health care administration, leadership, and management	17	6	35.3%

Notes: The same institution can be counted by programs across specialties. Pipeline specialties are highlighted.



This section includes information and trends regarding program director turnover, tenure, and hours spent in key areas related to the program. Statistics on the total number of faculty members, faculty members per program, and the hours faculty members spend in key areas are also included.

## Program Director Changes

A total of 843 specialty programs (14.0%) and 936 subspecialty programs (12.1%) had at least one program director change during the academic year. Of these, a small number (51 specialty programs and 43 subspecialty programs) had more than one program director change during the academic year. Overall, 1,875 distinct program director changes occurred in 1,779 programs during the academic year. The specialties with the highest percentage of program director turnover include:

- Aerospace medicine (40.0%)
- Medical genetics and genomics (20.5%)
- Plastic surgery (20.4%)
- Psychiatry (20.4%)

The specialties with the highest total number of distinct program director changes include:

- Family medicine (116)
- Internal medicine (109)
- Psychiatry (76)
- Surgery (61)

The specialties with the lowest percentage of program director turnover include:

- Colon and rectal surgery (6.8%)
- Allergy and immunology (7.6%)
- Thoracic surgery – independent (7.6%)
- Internal medicine/Pediatrics (7.7%)

Historically, over the past 10 years, between 12% and 14% of programs have had a change in the program director role each year.

## Program Director Tenure

On average, program directors of ACGME-accredited specialty programs spend approximately seven years in this role. Among all past program directors in specialty programs since July 1, 2015, allergy and immunology program directors have had the highest average tenure at 10.6 years, while clinical biochemical genetics (medical related specialty) program directors have had the lowest tenure at 1.6 years.

## Program Director Years Teaching in Specialty

In general, new program directors have spent less time teaching in their specialty than program directors who are not new to their role (continuing program directors). The mean length in years that new program directors have taught in their specialty is 12.2 years among medical specialty programs, 10.3 years among hospital-based specialty programs, and 12.0 years among surgical specialty programs. In each group, the mean length in years that subspecialty program directors have taught in their subspecialty is 9.9 years, 9.3 years, and 10.6 years for medical, hospital-based, and surgical subspecialty programs, respectively. The mean length in years that continuing program directors have taught in their specialty is 16.9 years among medical specialty programs, 15.0 years among hospital-based specialty programs, and 16.8 years among surgical specialty programs.

## Physician Faculty Members

A total of 213,640 physician faculty members were listed as active at the time of the Academic Year 2024-2025 snapshot. Note that these are not necessarily distinct people, as an individual may be listed as a faculty member for multiple programs. The average number of physician faculty members listed per program was 15.5 overall. The specialties with the highest average number of faculty members per program include:

- Anesthesiology (51.0)
- Pediatrics (36.0)
- Radiology - diagnostic (34.3)
- Surgery (32.8)

The subspecialties with the highest average number of faculty members per program include:

- Pediatric emergency medicine (18.8)
- Pediatric cardiology (18.5)
- Pediatric critical care medicine (16.9)
- Complex general surgical oncology (16.9)

## Core Faculty

A total of 75,294 core faculty members were listed as active in specialty programs at the time of the Academic Year 2024-2025 snapshot. The specialties with the highest average number of core faculty members per program include:

- Anesthesiology (23.1)
- Pediatrics (21.9)
- Radiology – diagnostic (20.1)
- Interventional radiology – integrated (20.0)

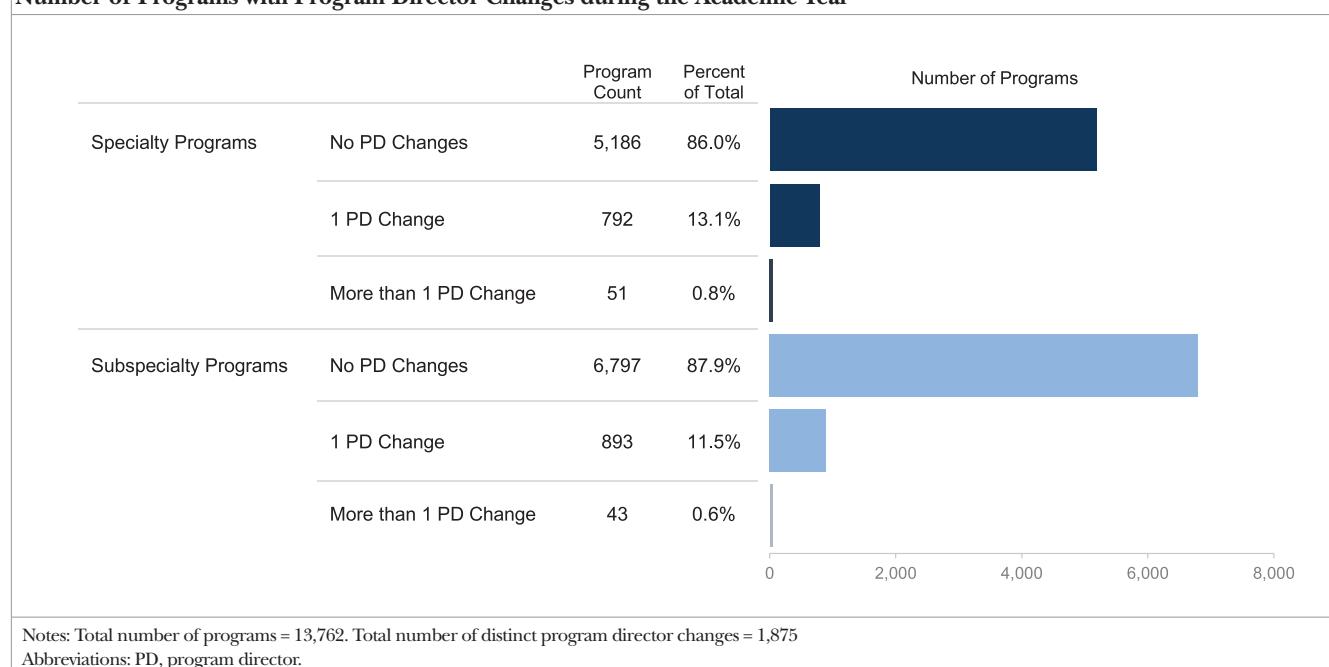
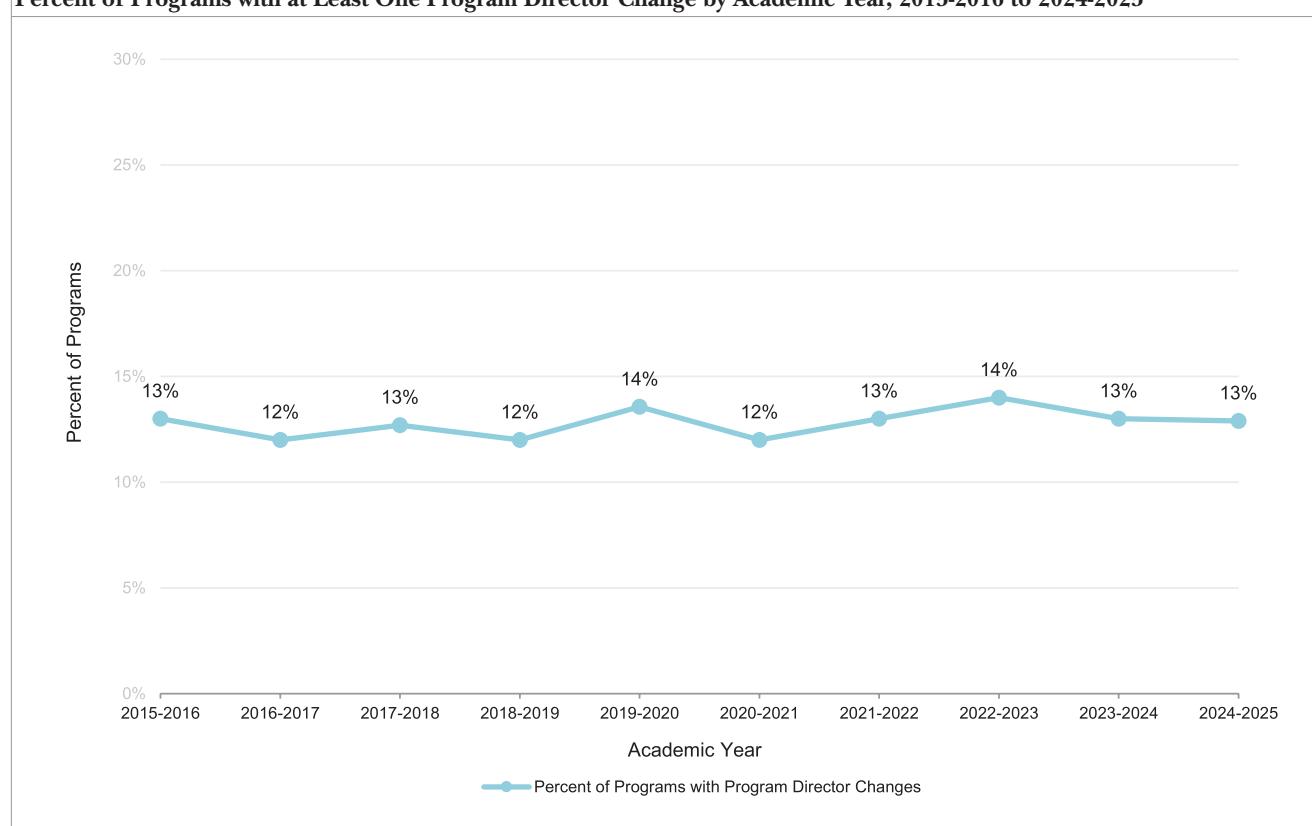
**FIGURE G.1****Number of Programs with Program Director Changes during the Academic Year****FIGURE G.2****Percent of Programs with at Least One Program Director Change by Academic Year, 2015-2016 to 2024-2025**

TABLE G.3

**Number of Programs with New Program Directors and Number of Distinct Program Director Changes during the Academic Year by Specialty and Subspecialty**

Specialty	Total Programs	Programs with New PDs		Number of Distinct PD Changes
		#	%	
OVERALL	13,762	1,779	12.9%	1,875
TOTAL PIPELINE	5,622	809	14.4%	859
Allergy and immunology	92	7	7.6%	8
Anesthesiology	182	21	11.5%	22
- Adult cardiothoracic anesthesiology	76	13	17.1%	13
- Critical care medicine	68	10	14.7%	12
- Obstetric anesthesiology	45	6	13.3%	6
- Pain medicine (multidisciplinary)	118	11	9.3%	11
- Pediatric anesthesiology	64	16	25.0%	17
- Pediatric cardiac anesthesiology	15	2	13.3%	3
- Regional anesthesiology and acute pain medicine	46	11	23.9%	11
Colon and rectal surgery	74	5	6.8%	5
Dermatology	145	26	17.9%	26
- Dermatopathology (multidisciplinary)	58	8	13.8%	9
- Micrographic surgery and dermatologic oncology	84	5	6.0%	6
- Pediatric dermatology	37	3	8.1%	3
Emergency medicine	297	35	11.8%	38
- Emergency medical services	88	13	14.8%	13
- Medical toxicology	32	2	6.3%	2
- Pediatric emergency medicine	30	5	16.7%	6
- Sports medicine	11	2	18.2%	2
- Undersea and hyperbaric medicine	8	1	12.5%	1
Family medicine	817	108	13.2%	116
- Clinical informatics	10	3	30.0%	3
- Geriatric medicine	44	5	11.4%	6
- Hospice and palliative medicine (multidisciplinary)	190	42	22.1%	44
- Sports medicine	173	8	4.6%	8
Internal medicine	688	101	14.7%	109
- Adult congenital heart disease	32	2	6.3%	2
- Advanced heart failure and transplant cardiology	84	11	13.1%	12
- Cardiovascular disease	294	34	11.6%	38
- Clinical cardiac electrophysiology	122	10	8.2%	11
- Clinical informatics	31	2	6.5%	2
- Critical care medicine	79	12	15.2%	12
- Endocrinology, diabetes, and metabolism	163	16	9.8%	16
- Gastroenterology	242	29	12.0%	30
- Geriatric medicine	118	9	7.6%	9
- Hematology and medical oncology	195	28	14.4%	29
- Infectious disease	170	19	11.2%	22
- Interventional cardiology	189	21	11.1%	22
- Interventional pulmonology	41	3	7.3%	3
- Medical oncology	1	0	0.0%	0
- Nephrology	152	25	16.4%	25
- Pulmonary disease	16	0	0.0%	0
- Pulmonary disease and critical care medicine	219	20	9.1%	22
- Rheumatology	138	17	12.3%	17
- Sleep medicine (multidisciplinary)	99	7	7.1%	8
- Transplant hepatology	70	5	7.1%	5
Medical genetics and genomics	44	9	20.5%	9
- Medical biochemical genetics	22	1	4.5%	2
- Molecular genetic pathology (multidisciplinary)	44	5	11.4%	5
Clinical biochemical genetics	14	0	0.0%	0
Laboratory genetics and genomics	38	5	13.2%	5
Neurological surgery	119	11	9.2%	13
- Neuroendovascular intervention	3	0	0.0%	0

**TABLE G.3 Continued****Number of Programs with New Program Directors and Number of Distinct Program Director Changes during the Academic Year by Specialty and Subspecialty**

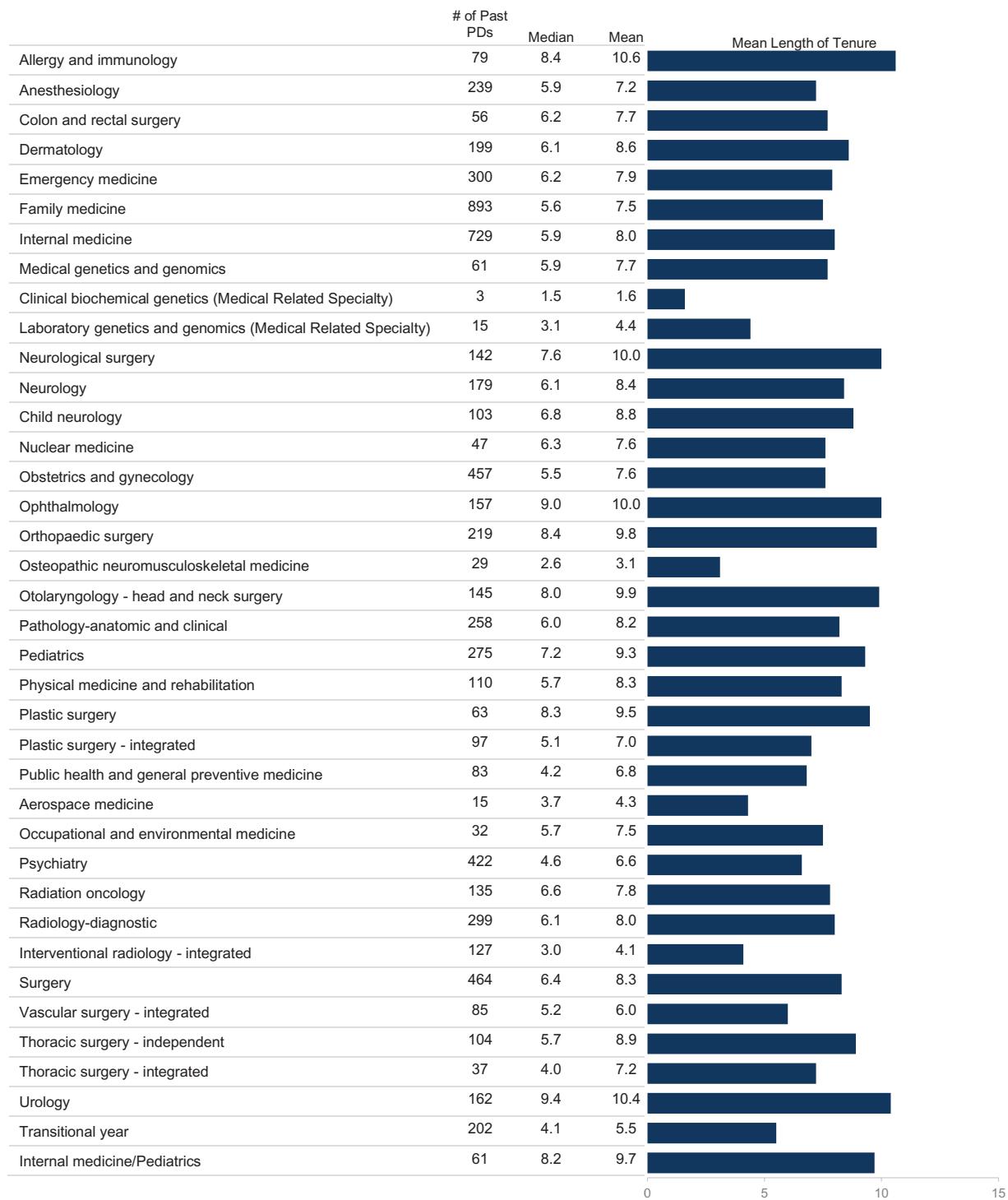
Specialty	Total Programs	Programs with New PDs		Number of Distinct PD Changes
		#	%	
Neurology	197	25	12.7%	26
- Clinical neurophysiology	98	14	14.3%	14
- Epilepsy	100	18	18.0%	18
- Neurocritical care (multidisciplinary)	65	7	10.8%	7
- Neuroendovascular intervention	2	0	0.0%	0
- Neurodevelopmental disabilities	11	1	9.1%	1
- Neuromuscular medicine	59	4	6.8%	4
- Vascular neurology	115	11	9.6%	11
Child neurology	83	10	12.0%	10
Nuclear medicine	33	4	12.1%	4
Obstetrics and gynecology	303	52	17.2%	54
- Urogynecology and reconstructive pelvic surgery	59	10	16.9%	12
- Gynecologic oncology	75	12	16.0%	12
- Maternal-fetal medicine	114	18	15.8%	20
- Reproductive endocrinology and infertility	52	5	9.6%	5
- Complex family planning	36	4	11.1%	4
Ophthalmology	128	16	12.5%	16
- Ophthalmic plastic and reconstructive surgery	4	1	25.0%	1
Orthopaedic surgery	209	28	13.4%	28
- Adult reconstructive orthopaedics	26	4	15.4%	4
- Foot and ankle orthopaedics	9	0	0.0%	0
- Hand surgery	77	12	15.6%	12
- Musculoskeletal oncology	12	1	8.3%	1
- Orthopaedic sports medicine	95	7	7.4%	7
- Orthopaedic surgery of the spine	16	1	6.3%	1
- Orthopaedic trauma	13	1	7.7%	1
- Pediatric orthopaedics	25	4	16.0%	4
Osteopathic neuromusculoskeletal medicine	26	4	15.4%	6
Otolaryngology - head and neck surgery	131	12	9.2%	13
- Neurotology	29	2	6.9%	2
- Pediatric otolaryngology	34	5	14.7%	5
Pathology-anatomic and clinical	142	27	19.0%	29
- Blood banking/transfusion medicine	57	10	17.5%	10
- Clinical informatics	10	2	20.0%	2
- Chemical pathology	4	0	0.0%	0
- Cytopathology	91	10	11.0%	10
- Forensic pathology	52	6	11.5%	6
- Hematopathology	86	15	17.4%	16
- Medical microbiology	16	1	6.3%	1
- Neuropathology	41	0	0.0%	0
- Pediatric pathology	27	6	22.2%	6
- Selective pathology	134	18	13.4%	18
Pediatrics	217	36	16.6%	37
- Adolescent medicine	33	3	9.1%	3
- Child abuse pediatrics	34	3	8.8%	3
- Clinical informatics	11	1	9.1%	1
- Developmental-behavioral pediatrics	46	2	4.3%	2
- Neonatal-perinatal medicine	110	12	10.9%	13
- Pediatric cardiology	64	7	10.9%	7
- Pediatric critical care medicine	78	15	19.2%	15
- Pediatric emergency medicine	60	7	11.7%	7
- Pediatric endocrinology	72	7	9.7%	7
- Pediatric gastroenterology	69	7	10.1%	7
- Pediatric hematology/oncology	79	8	10.1%	8
- Pediatric infectious diseases	65	13	20.0%	14

TABLE G.3 *Continued*

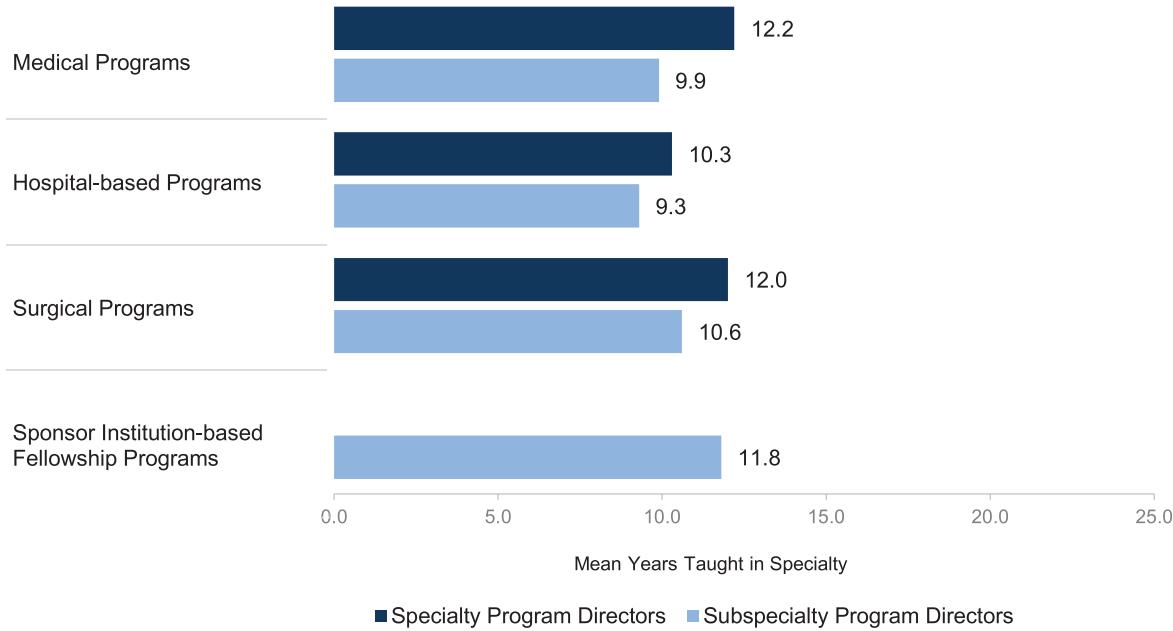
## Number of Programs with New Program Directors and Number of Distinct Program Director Changes during the Academic Year by Specialty and Subspecialty

Specialty	Total Programs	Programs with New PDs		Number of Distinct PD Changes
		#	%	
- Pediatric nephrology	49	10	20.4%	10
- Pediatric pulmonology	58	5	8.6%	5
- Pediatric rheumatology	39	3	7.7%	3
- Sports medicine	17	1	5.9%	1
- Pediatric transplant hepatology	17	3	17.6%	3
- Pediatric hospital medicine	80	12	15.0%	12
Physical medicine and rehabilitation	112	11	9.8%	12
- Brain injury medicine	29	2	6.9%	2
- Neuromuscular medicine	1	0	0.0%	0
- Spinal cord injury medicine	26	1	3.8%	1
- Pediatric rehabilitation medicine	24	3	12.5%	3
- Sports medicine	24	4	16.7%	4
Plastic surgery	49	10	20.4%	11
- Craniofacial surgery	9	1	11.1%	1
- Hand surgery	19	2	10.5%	2
Plastic Surgery - integrated	89	16	18.0%	18
Public health and general preventive medicine	40	8	20.0%	9
- Undersea and hyperbaric medicine	1	0	0.0%	0
Aerospace medicine	5	2	40.0%	2
Occupational and environmental medicine	22	2	9.1%	2
Psychiatry	353	72	20.4%	76
- Addiction medicine (multidisciplinary)	108	5	4.6%	5
- Addiction psychiatry	54	7	13.0%	10
- Child and adolescent psychiatry	158	15	9.5%	16
- Forensic psychiatry	60	7	11.7%	7
- Geriatric psychiatry	60	8	13.3%	8
- Consultation-liaison psychiatry	69	6	8.7%	6
Radiation oncology	87	10	11.5%	10
Radiology-diagnostic	200	28	14.0%	30
- Abdominal radiology	13	1	7.7%	1
- Musculoskeletal radiology	23	2	8.7%	2
- Neuroendovascular intervention	5	0	0.0%	0
- Neuroradiology	93	18	19.4%	20
- Nuclear radiology	19	0	0.0%	0
- Pediatric radiology	48	5	10.4%	5
Interventional radiology - independent	91	15	16.5%	17
Interventional radiology - integrated	101	13	12.9%	14
Surgery	365	56	15.3%	61
- Complex general surgical oncology	35	4	11.4%	4
- Hand surgery	2	0	0.0%	0
- Pediatric surgery	52	4	7.7%	4
- Surgical critical care	171	28	16.4%	28
- Vascular surgery - independent	123	22	17.9%	24
Vascular surgery - integrated	81	13	16.0%	13
Thoracic surgery - independent	79	6	7.6%	6
- Congenital cardiac surgery	17	2	11.8%	2
Thoracic surgery - integrated	36	3	8.3%	3
Urology	152	19	12.5%	19
- Urogynecology and reconstructive pelvic surgery	16	1	6.3%	1
- Pediatric urology	28	1	3.6%	1
Transitional year	201	26	12.9%	30
Internal medicine/Pediatrics	78	6	7.7%	6
Health care administration, leadership, and management	9	1	11.1%	1

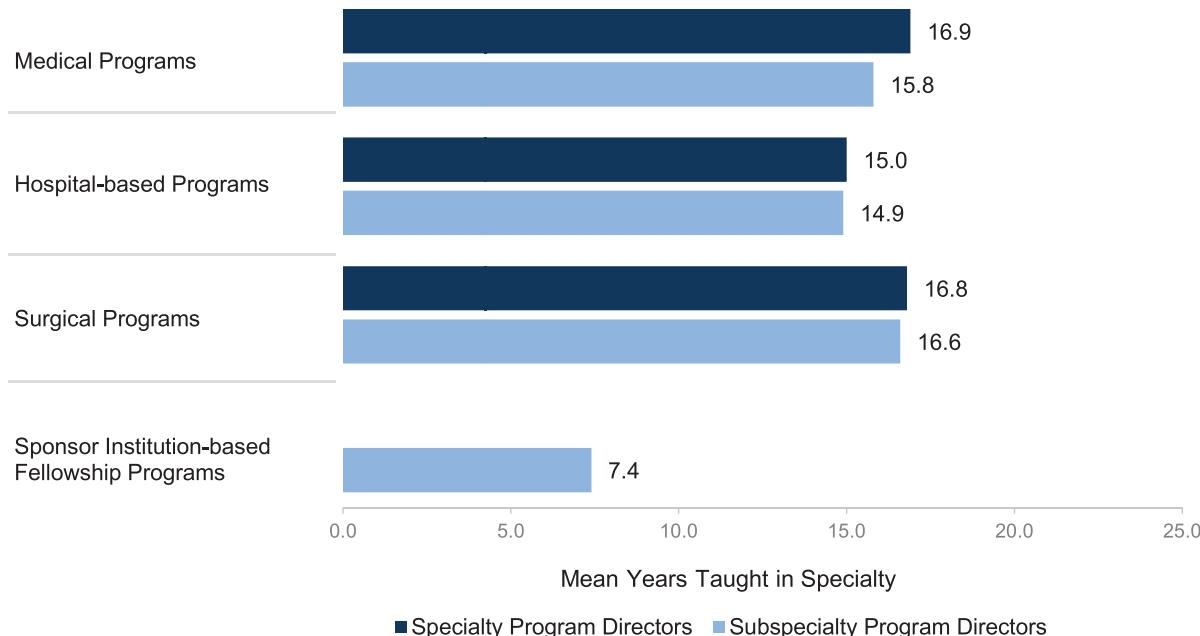
Notes: Total number of distinct program director changes =1,875 (896 in specialty programs and 979 in subspecialty programs). Pipeline specialties are highlighted.  
Abbreviations: PD, program director.

**FIGURE G.4****Mean Length in Years of Past Program Director Tenure by Specialty**

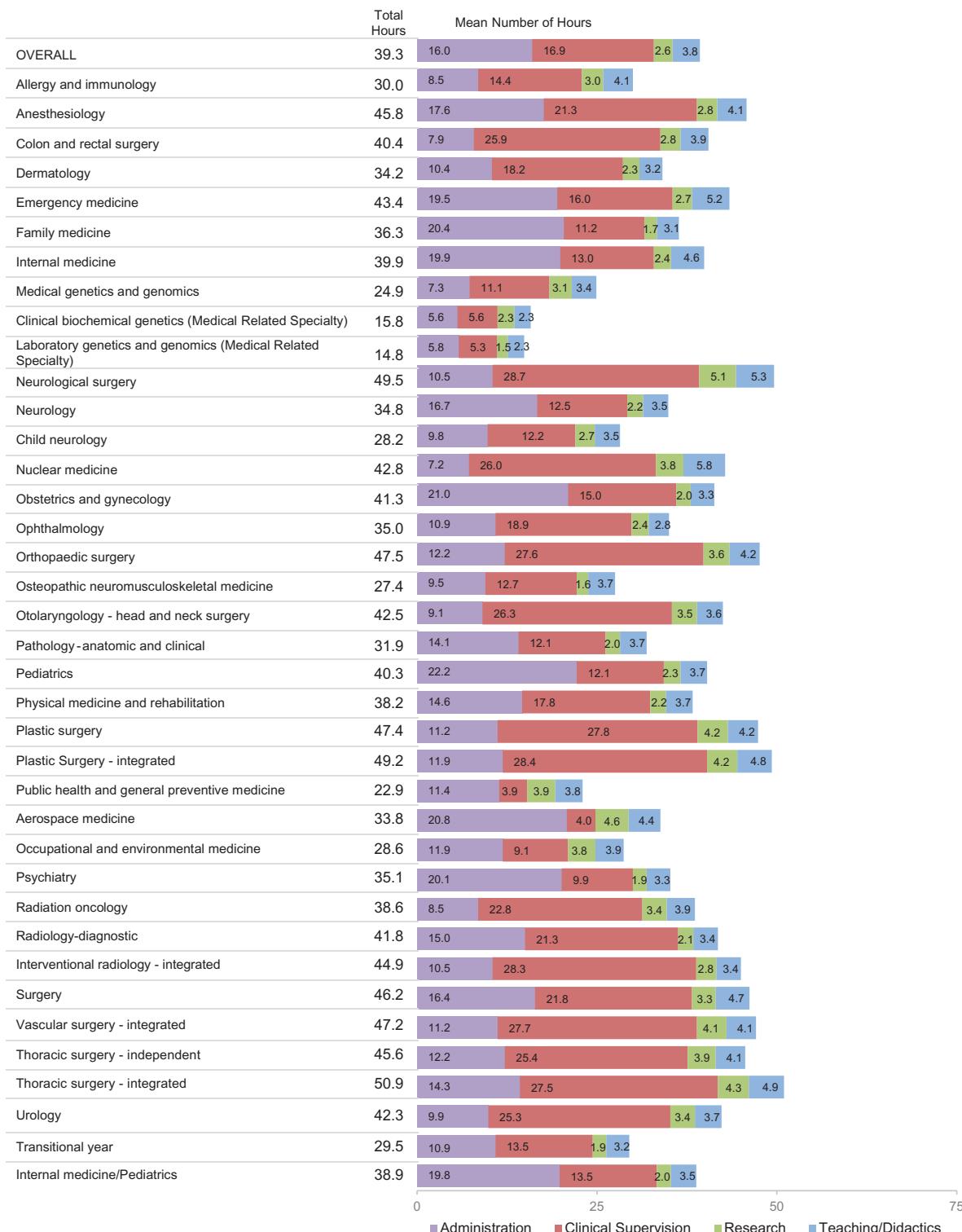
Notes: Data are based on program director changes since 7/1/2015 (n = 7,083). Overall mean length in tenure = 7.0 years.  
 Abbreviations: PD, program director.

**FIGURE G.5****Mean Length in Years New Program Directors Have Taught in Their Specialty-by-Specialty Group**

Notes: Total number of new program directors in specialty programs = 1,024. Total number of new program directors in subspecialty programs = 1,168.

**FIGURE G.6****Mean Length in Years Continuing Program Directors Have Taught in Their Specialty-by-Specialty Group**

Notes: Total number of continuing program directors in specialty programs = 5,005. Total number of continuing program directors in subspecialty programs = 6,565.

**FIGURE G.7****Mean Number of Hours per Week Spent by Program Directors in Key Areas by Specialty**

Notes: Sum of individual means may not add to overall mean due to rounding.

TABLE G.8

## Number of Physician Faculty Members and Mean Number of Physician Faculty Members per Program by Specialty and Subspecialty

Specialty	Total Programs	Total Number of Physician Faculty	Mean	MIN	MAX
OVERALL	13,762	213,640	15.5	0	188
TOTAL PIPELINE	5,622	137,219	24.4	1	188
Allergy and immunology	92	884	9.6	2	29
Anesthesiology	182	9,289	51.0	8	188
- Adult cardiothoracic anesthesiology	76	1,163	15.3	6	36
- Critical care medicine	68	922	13.6	4	43
- Obstetric anesthesiology	45	459	10.2	3	20
- Pain medicine (multidisciplinary)	118	1,072	9.1	3	31
- Pediatric anesthesiology	64	1,002	15.7	1	52
- Pediatric cardiac anesthesiology	15	178	11.9	7	21
- Regional anesthesiology and acute pain medicine	46	551	12.0	3	24
Colon and rectal surgery	74	530	7.2	2	24
Dermatology	145	2,328	16.1	4	46
- Dermatopathology (multidisciplinary)	58	338	5.8	2	18
- Micrographic surgery and dermatologic oncology	84	374	4.5	0	14
- Pediatric dermatology	37	144	3.9	1	9
Emergency medicine	297	6,294	21.2	5	76
- Emergency medical services	88	430	4.9	2	11
- Medical toxicology	32	192	6.0	2	14
- Pediatric emergency medicine	30	361	12.0	3	28
- Sports medicine	11	62	5.6	2	8
- Undersea and hyperbaric medicine	8	27	3.4	2	6
Family medicine	817	17,512	21.4	1	71
- Clinical informatics	10	62	6.2	1	15
- Geriatric medicine	44	237	5.4	1	20
- Hospice and palliative medicine (multidisciplinary)	190	1,702	9.0	2	34
- Sports medicine	173	1,168	6.8	1	23
Internal medicine	688	14,407	20.9	4	104
- Adult congenital heart disease	32	176	5.5	1	11
- Advanced heart failure and transplant cardiology	84	533	6.3	2	20
- Cardiovascular disease	294	4,287	14.6	3	70
- Clinical cardiac electrophysiology	122	669	5.5	0	19
- Clinical informatics	31	258	8.3	5	19
- Critical care medicine	79	783	9.9	2	25
- Endocrinology, diabetes, and metabolism	163	1,349	8.3	1	29
- Gastroenterology	242	2,880	11.9	3	50
- Geriatric medicine	118	870	7.4	1	19
- Hematology and medical oncology	195	2,820	14.5	2	54
- Infectious disease	170	1,789	10.5	1	47
- Interventional cardiology	189	1,023	5.4	1	14
- Interventional pulmonology	41	125	3.0	1	6
- Medical oncology	1	3	3.0	3	3
- Nephrology	152	1,626	10.7	1	41
- Pulmonary disease	16	101	6.3	2	11
- Pulmonary disease and critical care medicine	219	3,073	14.0	4	53
- Rheumatology	138	1,073	7.8	1	23
- Sleep medicine (multidisciplinary)	99	630	6.4	2	20
- Transplant hepatology	70	415	5.9	1	13
Medical genetics and genomics	44	486	11.0	3	40
- Medical biochemical genetics	22	136	6.2	2	14
- Molecular genetic pathology (multidisciplinary)	44	262	6.0	2	19
Clinical biochemical genetics	14	63	4.5	0	11
Laboratory genetics and genomics	38	192	5.1	1	15
Neurological surgery	119	2,239	18.8	4	39
- Neuroendovascular intervention	3	17	5.7	3	9

**TABLE G.8 Continued****Number of Physician Faculty Members and Mean Number of Physician Faculty Members per Program by Specialty and Subspecialty**

Specialty	Total Programs	Total Number of Physician Faculty	Mean	MIN	MAX
Neurology	197	6,448	32.7	7	112
- Clinical neurophysiology	98	959	9.8	3	25
- Epilepsy	100	910	9.1	4	26
- Neurocritical care (multidisciplinary)	65	590	9.1	3	24
- Neuroendovascular intervention	2	8	4.0	3	5
- Neurodevelopmental disabilities	11	176	16.0	3	54
- Neuromuscular medicine	59	453	7.7	3	15
- Vascular neurology	115	924	8.0	3	22
Child neurology	83	1,413	17.0	1	51
Nuclear medicine	33	210	6.4	2	16
Obstetrics and gynecology	303	8,728	28.8	7	97
- Urogynecology and reconstructive pelvic surgery	59	387	6.6	3	13
- Gynecologic oncology	75	635	8.5	2	19
- Maternal-fetal medicine	114	1,327	11.6	1	33
- Reproductive endocrinology and infertility	52	456	8.8	2	27
- Complex family planning	36	178	4.9	2	11
Ophthalmology	128	3,241	25.3	6	67
- Ophthalmic plastic and reconstructive surgery	4	12	3.0	1	6
Orthopaedic surgery	209	6,438	30.8	3	83
- Adult reconstructive orthopaedics	26	159	6.1	1	21
- Foot and ankle orthopaedics	9	40	4.4	2	11
- Hand surgery	77	582	7.6	2	19
- Musculoskeletal oncology	12	43	3.6	1	8
- Orthopaedic sports medicine	95	684	7.2	2	22
- Orthopaedic surgery of the spine	16	103	6.4	2	16
- Orthopaedic trauma	13	70	5.4	2	16
- Pediatric orthopaedics	25	232	9.3	2	22
Osteopathic neuromusculoskeletal medicine	26	380	14.6	8	27
Otolaryngology - head and neck surgery	131	2,971	22.7	5	60
- Neurotology	29	151	5.2	2	10
- Pediatric otolaryngology	34	328	9.6	4	22
Pathology-anatomic and clinical	142	3,946	27.8	7	71
- Blood banking/transfusion medicine	57	332	5.8	2	13
- Clinical informatics	10	60	6.0	2	10
- Chemical pathology	4	11	2.8	1	5
- Cytopathology	91	532	5.8	1	18
- Forensic pathology	52	341	6.6	0	18
- Hematopathology	86	593	6.9	2	30
- Medical microbiology	16	40	2.5	0	5
- Neuropathology	41	195	4.8	2	9
- Pediatric pathology	27	205	7.6	2	17
- Selective pathology	134	872	6.5	1	24
Pediatrics	217	7,820	36.0	15	62
- Adolescent medicine	33	237	7.2	1	24
- Child abuse pediatrics	34	158	4.6	0	12
- Clinical informatics	11	121	11.0	5	26
- Developmental-behavioral pediatrics	46	285	6.2	0	16
- Neonatal-perinatal medicine	110	1,762	16.0	4	35
- Pediatric cardiology	64	1,181	18.5	4	61
- Pediatric critical care medicine	78	1,318	16.9	7	39
- Pediatric emergency medicine	60	1,130	18.8	5	33
- Pediatric endocrinology	72	633	8.8	1	29
- Pediatric gastroenterology	69	795	11.5	3	37
- Pediatric hematology/oncology	79	1,235	15.6	3	45
- Pediatric infectious diseases	65	582	9.0	2	27

TABLE G.8 *Continued*

## Number of Physician Faculty Members and Mean Number of Physician Faculty Members per Program by Specialty and Subspecialty

Specialty	Total Programs	Total Number of Physician Faculty	Mean	MIN	MAX
- Pediatric nephrology	49	341	7.0	1	18
- Pediatric pulmonology	58	539	9.3	2	35
- Pediatric rheumatology	39	227	5.8	2	12
- Sports medicine	17	130	7.6	3	13
- Pediatric transplant hepatology	17	103	6.1	4	12
- Pediatric hospital medicine	80	1,093	13.7	5	29
Physical medicine and rehabilitation	112	2,463	22.0	5	58
- Brain injury medicine	29	168	5.8	3	12
- Neuromuscular medicine	1	5	5.0	5	5
- Spinal cord injury medicine	26	180	6.9	3	11
- Pediatric rehabilitation medicine	24	164	6.8	2	14
- Sports medicine	24	184	7.7	3	14
Plastic surgery	49	772	15.8	4	35
- Craniofacial surgery	9	34	3.8	2	7
- Hand surgery	19	138	7.3	3	14
Plastic Surgery - integrated	89	1,830	20.6	4	53
Public health and general preventive medicine	40	424	10.6	2	27
- Undersea and hyperbaric medicine	1	3	3.0	3	3
Aerospace medicine	5	51	10.2	4	16
Occupational and environmental medicine	22	205	9.3	3	26
Psychiatry	353	7,686	21.8	5	82
- Addiction medicine (multidisciplinary)	108	826	7.6	2	18
- Addiction psychiatry	54	420	7.8	1	19
- Child and adolescent psychiatry	158	1,675	10.6	2	38
- Forensic psychiatry	60	378	6.3	0	17
- Geriatric psychiatry	60	418	7.0	3	17
- Consultation-liaison psychiatry	69	531	7.7	2	28
Radiation oncology	87	1,383	15.9	4	77
Radiology-diagnostic	200	6,857	34.3	8	101
- Abdominal radiology	13	147	11.3	5	18
- Musculoskeletal radiology	23	160	7.0	2	28
- Neuroendovascular intervention	5	25	5.0	3	9
- Neuroradiology	93	947	10.2	2	33
- Nuclear radiology	19	114	6.0	1	23
- Pediatric radiology	48	593	12.4	0	43
Interventional radiology - independent	91	888	9.8	3	40
Interventional radiology - integrated	101	2,871	28.4	11	70
Surgery	365	11,969	32.8	5	125
- Complex general surgical oncology	35	591	16.9	9	35
- Hand surgery	2	23	11.5	8	15
- Pediatric surgery	52	547	10.5	3	25
- Surgical critical care	171	1,906	11.1	2	36
- Vascular surgery - independent	123	998	8.1	2	23
Vascular surgery - integrated	81	1,146	14.1	5	72
Thoracic surgery - independent	79	1,124	14.2	4	34
- Congenital cardiac surgery	17	71	4.2	2	11
Thoracic surgery - integrated	36	839	23.3	8	83
Urology	152	2,904	19.1	4	51
- Urogynecology and reconstructive pelvic surgery	16	116	7.3	4	12
- Pediatric urology	28	160	5.7	0	15
Transitional year	201	2,265	11.3	3	62
Internal medicine/Pediatrics	78	781	10.0	2	28
Health care administration, leadership, and management	9	41	4.6	2	9

Notes: Excluding program directors. Total number of physician faculty does not represent the count of distinct people as individuals may be listed in more than one program.  
 Total number of distinct physician faculty across all programs = 163,430. Pipeline specialties are highlighted.

**TABLE G.9****Total Number of Core Faculty Members and Core Faculty Members per Program by Specialty**

Specialty	Total Programs	Total Number of Core Faculty	Mean	MIN	MAX
OVERALL	6,029	75,294	12.5	0	93
Allergy and immunology	92	531	5.8	1	15
Anesthesiology	182	4,202	23.1	5	93
Colon and rectal surgery	74	409	5.5	2	21
Dermatology	145	1,545	10.7	1	27
Emergency medicine	297	4,068	13.7	5	61
Family medicine	817	5,497	6.7	0	37
Internal medicine	688	7,581	11.0	0	52
Medical genetics and genomics	44	245	5.6	1	16
Clinical biochemical genetics (Medical Related Specialty)	14	41	2.9	0	8
Laboratory genetics and genomics (Medical Related Specialty)	38	78	2.1	0	5
Neurological surgery	119	1,412	11.9	2	29
Neurology	197	3,190	16.2	3	81
Child neurology	83	828	10.0	1	22
Nuclear medicine	33	174	5.3	1	11
Obstetrics and gynecology	303	4,874	16.1	3	60
Ophthalmology	128	1,826	14.3	3	40
Orthopaedic surgery	209	3,732	17.9	3	64
Osteopathic neuromusculoskeletal medicine	26	96	3.7	1	9
Otolaryngology - head and neck surgery	131	2,014	15.4	4	45
Pathology-anatomic and clinical	142	2,400	16.9	4	67
Pediatrics	217	4,755	21.9	3	49
Physical medicine and rehabilitation	112	1,443	12.9	2	50
Plastic surgery	49	492	10.0	1	31
Plastic Surgery - integrated	89	956	10.7	3	31
Public health and general preventive medicine	40	164	4.1	1	11
Aerospace medicine	5	31	6.2	2	10
Occupational and environmental medicine	22	90	4.1	2	7
Psychiatry	353	3,965	11.2	3	45
Radiation oncology	87	1,047	12.0	3	44
Radiology-diagnostic	200	4,025	20.1	5	74
Interventional radiology - integrated	101	2,016	20.0	6	51
Surgery	365	5,793	15.9	2	80
Vascular surgery - integrated	81	732	9.0	3	18
Thoracic surgery - independent	79	919	11.6	4	27
Thoracic surgery - integrated	36	509	14.1	5	27
Urology	152	1,942	12.8	3	41
Transitional year	201	1,126	5.6	0	18
Internal medicine/Pediatrics	78	546	7.0	2	19

Notes: Excluding program directors. Total number of core faculty does not represent the count of distinct people as individuals may be listed in more than one program.

Total number of distinct core faculty in specialty programs = 70,813

FIGURE G.10

## Specialties Organized by Largest Mean Number of Core Faculty Members per Program

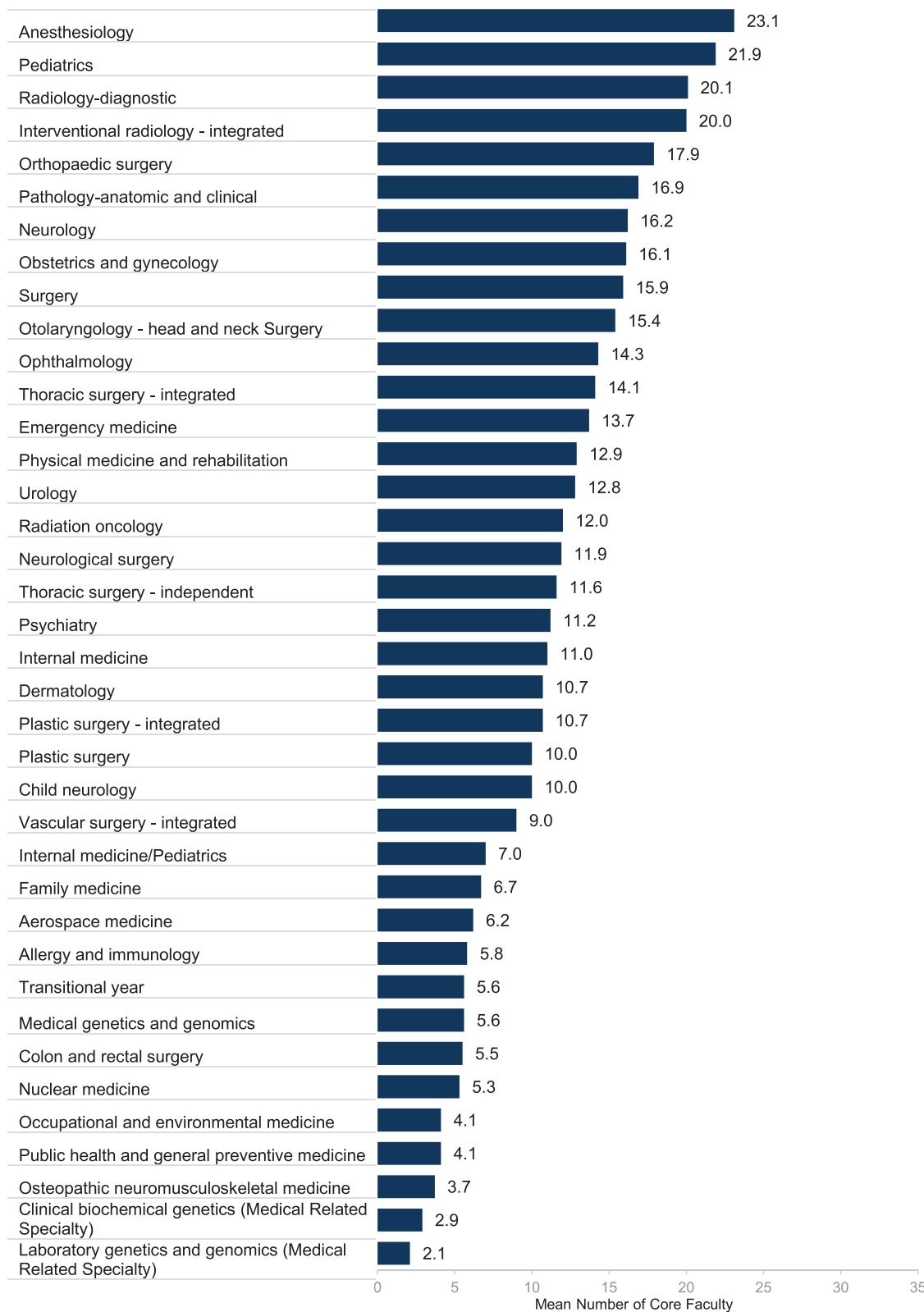
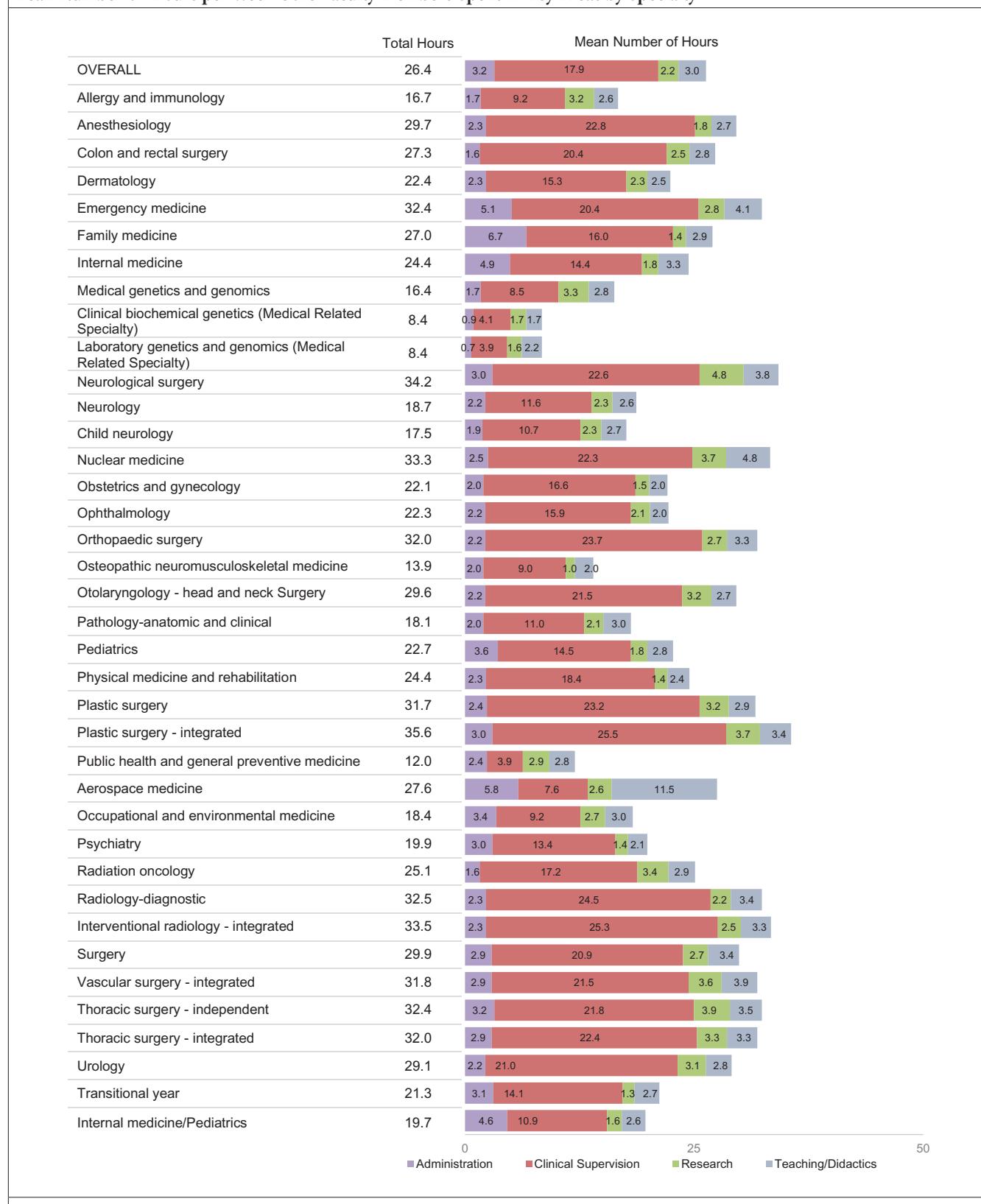


FIGURE G.11

### Mean Number of Hours per Week Core Faculty Members Spent in Key Areas by Specialty



Note: Sum of individual means may not add to overall mean due to rounding.

TABLE G.12

## Number of Active Core Physician Faculty by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
OVERALL	76,450	27,333	8,819	4,914	181	90	2,986	1,717	2,644
<b>TOTAL PIPELINE</b>	<b>45,513</b>	<b>14,584</b>	<b>5,160</b>	<b>3,115</b>	<b>128</b>	<b>50</b>	<b>1,696</b>	<b>950</b>	<b>1,665</b>
Allergy and immunology	303	155	33	15	0	1	14	5	5
Anesthesiology	2,593	886	288	179	7	4	111	70	64
- Adult cardiothoracic anesthesiology	450	166	42	28	0	0	20	10	10
- Critical care medicine	359	122	45	16	1	0	17	10	3
- Obstetric anesthesiology	164	59	20	21	2	0	11	7	9
- Pain medicine (multidisciplinary)	374	207	31	30	1	3	22	14	8
- Pediatric anesthesiology	389	163	55	27	1	0	15	7	9
- Pediatric cardiac anesthesiology	82	15	12	4	0	0	0	1	3
- Regional anesthesiology and acute pain medicine	189	79	15	16	0	0	10	5	6
Colon and rectal surgery	264	69	33	14	0	0	10	6	13
Dermatology	1,012	286	102	56	3	0	35	14	37
- Dermatopathology (multidisciplinary)	138	45	12	8	0	0	4	2	4
- Micrographic surgery and dermatologic oncology	129	40	6	6	0	0	9	1	0
- Pediatric dermatology	77	25	3	1	0	0	2	1	1
Emergency medicine	2,902	519	298	161	6	1	86	40	55
- Emergency medical services	231	22	15	5	1	0	3	1	1
- Medical toxicology	116	21	5	5	0	0	1	2	1
- Pediatric emergency medicine	182	38	16	11	0	0	3	6	3
- Sports medicine	25	2	1	2	0	0	0	0	0
- Undersea and hyperbaric medicine	16	2	2	0	0	0	0	0	2
Family medicine	3,510	794	459	332	19	2	150	76	155
- Clinical informatics	27	8	2	4	0	0	2	0	0
- Geriatric medicine	68	33	9	7	0	0	3	2	1
- Hospice and palliative medicine (multidisciplinary)	563	193	68	30	3	2	17	10	11
- Sports medicine	373	52	24	21	0	0	13	5	7
Internal medicine	3,903	2,038	584	408	16	9	171	142	310
- Adult congenital heart disease	80	19	4	1	1	0	0	2	1
- Advanced heart failure and transplant cardiology	172	131	30	13	0	0	8	3	4
- Cardiovascular disease	1,623	991	219	123	3	4	70	62	90
- Clinical cardiac electrophysiology	292	169	28	10	0	0	9	10	14
- Clinical informatics	111	25	6	3	0	0	5	3	2
- Critical care medicine	285	151	44	10	0	0	14	14	5
- Endocrinology, diabetes, and metabolism	442	290	85	30	0	3	15	20	20
- Gastroenterology	984	710	126	88	1	1	59	38	66
- Geriatric medicine	280	145	47	19	0	1	9	8	13
- Hematology and medical oncology	1,111	680	117	70	0	0	37	37	44
- Infectious disease	693	231	136	39	0	0	25	21	18
- Interventional cardiology	401	257	42	21	0	0	15	15	18
- Interventional pulmonology	53	34	12	3	0	1	3	0	2
- Medical oncology	1	1	0	1	0	0	0	0	0
- Nephrology	495	411	77	42	1	1	26	29	25
- Pulmonary disease	25	35	6	1	0	0	1	3	3
- Pulmonary disease and critical care medicine	1,216	617	190	59	1	3	54	37	44
- Rheumatology	367	209	54	16	0	0	17	21	21
- Sleep medicine (multidisciplinary)	225	165	34	8	2	1	8	7	1
- Transplant hepatology	154	101	25	17	1	0	9	3	5
Medical genetics and genomics	156	44	22	2	0	0	10	6	5
- Medical biochemical genetics	51	14	7	0	1	0	3	2	3
- Molecular genetic pathology (multidisciplinary)	95	54	9	1	0	0	4	1	0
Clinical biochemical genetics	29	4	4	0	1	0	1	1	1
Laboratory genetics and genomics	41	23	6	0	0	0	2	0	6
Neurological surgery	889	309	83	49	5	1	24	16	36
- Neuroendovascular intervention	5	3	0	0	0	0	0	0	1

TABLE G.12 *Continued*

## Number of Active Core Physician Faculty by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
Neurology	1,843	784	271	82	2	1	79	63	65
- Clinical neurophysiology	330	166	41	9	0	0	16	7	12
- Epilepsy	362	172	40	15	1	0	14	5	10
- Neurocritical care (multidisciplinary)	230	127	29	9	0	0	10	11	7
- Neuroendovascular intervention	4	2	1	0	0	0	1	0	0
- Neurodevelopmental disabilities	52	10	1	2	0	0	1	1	0
- Neuromuscular medicine	186	70	19	5	0	0	11	4	4
- Vascular neurology	318	177	46	22	0	0	15	10	9
Child neurology	527	187	62	18	0	0	21	10	3
Nuclear medicine	88	46	19	5	0	0	5	3	8
Obstetrics and gynecology	3,241	632	361	378	11	6	117	50	78
- Urogynecology and reconstructive pelvic surgery	178	43	17	22	0	2	3	4	2
- Gynecologic oncology	313	76	28	17	1	0	5	5	4
- Maternal-fetal medicine	655	124	54	65	1	0	16	8	7
- Reproductive endocrinology and infertility	209	43	20	12	0	0	6	3	9
- Complex family planning	89	29	9	6	0	0	7	1	2
Ophthalmology	1,069	497	91	53	1	1	33	21	60
- Ophthalmic plastic and reconstructive surgery	5	3	1	0	0	0	1	0	0
Orthopaedic surgery	2,828	463	157	107	9	1	59	33	75
- Adult reconstructive orthopaedics	94	12	11	2	1	0	1	0	2
- Foot and ankle orthopaedics	26	2	2	0	0	0	0	1	1
- Hand surgery	294	61	21	4	1	0	11	5	3
- Musculoskeletal oncology	34	2	1	4	0	0	0	0	1
- Orthopaedic sports medicine	332	54	12	17	0	0	2	1	3
- Orthopaedic surgery of the spine	32	21	5	2	0	0	1	1	1
- Orthopaedic trauma	40	13	4	1	0	0	3	1	1
- Pediatric orthopaedics	130	22	9	6	1	0	3	1	3
Osteopathic neuromusculoskeletal medicine	69	10	6	2	0	0	1	0	8
Otolaryngology - head and neck surgery	1,342	434	92	51	2	0	43	20	30
- Neurotology	73	25	4	0	1	0	3	2	5
- Pediatric otolaryngology	173	59	13	7	1	0	3	3	2
Pathology-anatomic and clinical	1,376	599	211	63	1	3	80	30	37
- Blood banking/transfusion medicine	121	47	20	12	0	0	6	2	3
- Clinical informatics	21	9	2	2	0	0	1	0	2
- Chemical pathology	3	1	0	0	0	0	0	0	0
- Cytopathology	180	125	30	12	0	0	20	6	9
- Forensic pathology	200	15	25	14	0	0	10	5	11
- Hematopathology	219	159	21	10	0	0	16	8	9
- Medical microbiology	17	5	1	0	0	0	0	1	0
- Neuropathology	98	26	8	2	0	0	4	2	2
- Pediatric pathology	95	20	6	8	0	0	6	0	2
- Selective pathology	300	194	42	9	2	0	24	11	17
Pediatrics	2,960	821	435	265	7	4	112	48	103
- Adolescent medicine	100	20	14	28	0	0	8	1	0
- Child abuse pediatrics	90	9	5	3	1	0	2	0	1
- Clinical informatics	50	22	5	1	0	0	0	1	0
- Developmental-behavioral pediatrics	142	37	13	6	1	0	10	1	1
- Neonatal-perinatal medicine	792	347	99	49	0	1	49	15	19
- Pediatric cardiology	573	199	47	18	0	1	17	9	16
- Pediatric critical care medicine	676	180	79	33	1	2	28	13	3
- Pediatric emergency medicine	509	122	34	33	1	0	19	6	9
- Pediatric endocrinology	312	104	40	12	1	1	8	6	4
- Pediatric gastroenterology	350	159	52	22	1	1	9	15	4
- Pediatric hematology/oncology	637	185	55	17	1	1	22	7	10
- Pediatric infectious diseases	316	85	40	18	0	0	6	6	7

TABLE G.12 *Continued*

## Number of Active Core Physician Faculty by Specialty and Subspecialty and Race/Ethnicity

Specialty	Race/Ethnicity								
	White	Asian	Hispanic, Latino or of Spanish origin	Black or African American	American Indian or Alaskan Native	Native Hawaiian or Pacific Islander	Multiple Race/Ethnicity	Other	Unknown
- Pediatric nephrology	161	70	17	19	1	0	8	5	2
- Pediatric pulmonology	268	74	49	10	1	0	12	5	6
- Pediatric rheumatology	116	36	12	4	0	0	7	1	1
- Sports medicine	64	8	4	2	0	0	0	1	1
- Pediatric transplant hepatology	42	23	7	2	0	0	1	1	0
- Pediatric hospital medicine	492	145	49	23	2	2	16	9	7
Physical medicine and rehabilitation	838	331	129	64	2	1	31	19	28
- Brain injury medicine	56	24	5	5	0	0	5	3	2
- Neuromuscular medicine	3	0	0	0	0	0	0	0	0
- Spinal cord injury medicine	74	28	11	3	0	0	2	0	1
- Pediatric rehabilitation medicine	77	29	9	1	0	0	4	0	1
- Sports medicine	61	23	13	5	0	0	3	0	0
Plastic surgery	316	104	31	7	3	0	14	5	12
- Craniofacial surgery	20	6	2	0	0	0	0	0	0
- Hand surgery	75	26	2	3	0	0	0	1	0
Plastic Surgery - integrated	625	204	52	26	4	0	17	9	19
Public health and general preventive medicine	100	29	10	18	0	0	4	2	1
- Undersea and hyperbaric medicine	3	0	0	0	0	0	0	0	0
Aerospace medicine	25	4	1	0	0	0	1	0	0
Occupational and environmental medicine	57	14	4	8	0	0	2	1	4
Psychiatry	2,330	794	338	199	8	0	112	55	129
- Addiction medicine (multidisciplinary)	265	68	28	12	0	0	14	3	7
- Addiction psychiatry	137	50	29	7	1	0	14	6	5
- Child and adolescent psychiatry	634	259	78	56	1	1	40	13	16
- Forensic psychiatry	150	31	24	9	0	0	5	1	5
- Geriatric psychiatry	146	53	16	7	0	1	10	3	3
- Consultation-liaison psychiatry	216	63	40	5	0	0	10	4	2
Radiation oncology	569	360	39	30	2	3	23	6	15
Radiology-diagnostic	2,442	1,022	235	88	8	2	96	51	81
- Abdominal radiology	54	28	2	4	0	0	6	4	13
- Musculoskeletal radiology	83	25	9	6	0	0	4	2	3
- Neuroendovascular intervention	14	8	0	0	0	0	0	0	0
- Neuroradiology	379	206	39	15	0	0	22	9	16
- Nuclear radiology	43	17	5	3	0	0	2	1	3
- Pediatric radiology	207	68	17	6	0	0	8	6	9
Interventional radiology - independent	393	174	37	15	1	0	20	15	16
Interventional radiology - integrated	1,218	516	115	51	2	1	48	31	34
Surgery	3,854	964	403	275	5	5	120	64	103
- Complex general surgical oncology	242	96	29	14	0	1	12	4	6
- Hand surgery	8	2	2	1	0	0	1	0	3
- Pediatric surgery	299	64	30	18	1	0	10	4	8
- Surgical critical care	946	190	104	69	1	1	30	19	12
- Vascular surgery - independent	517	166	56	24	2	1	21	12	13
Vascular surgery - integrated	452	158	55	22	2	0	17	12	14
Thoracic surgery - independent	552	203	62	27	0	1	17	12	45
- Congenital cardiac surgery	34	14	6	2	0	0	3	0	6
Thoracic surgery - integrated	314	106	36	11	0	0	9	12	21
Urology	1,294	364	105	60	1	4	33	23	58
- Urogynecology and reconstructive pelvic surgery	40	15	6	7	1	0	2	0	1
- Pediatric urology	89	33	8	0	0	1	2	2	3
Transitional year	643	228	105	46	4	1	31	15	53
Internal medicine/Pediatrics	378	91	29	30	1	1	12	3	1
Health care administration, leadership, and management	17	1	1	2	0	0	0	0	5

Notes: Pipeline specialties are highlighted. Unknown ethnicity includes both unknown and blank, while 'Other' indicates a known ethnicity other than the ones available for selection.

Source: The sex and race/ethnicity reported are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

TABLE G.13

## Number and Percent of Program Coordinator Changes

Specialty	Total Programs	Number of Programs with Multiple Program Coordinators				Number of Programs with Program Coordinator Changes		Number of New Program Coordinators	
		No		Yes		N	%		
		N	%	N	%				
OVERALL	13,762	6,629	48.2%	7,133	51.8%	1,780	12.9%	2,134	
TOTAL PIPELINE	5,622	2,713	48.3%	2,909	51.7%	717	12.8%	878	
Allergy and immunology	92	45	48.9%	47	51.1%	13	14.1%	18	
Anesthesiology	182	61	33.5%	121	66.5%	27	14.8%	34	
- Adult cardiothoracic anesthesiology	76	17	22.4%	59	77.6%	11	14.5%	15	
- Critical care medicine	68	23	33.8%	45	66.2%	5	7.4%	7	
- Obstetric anesthesiology	45	19	42.2%	26	57.8%	5	11.1%	7	
- Pain medicine (multidisciplinary)	118	53	44.9%	65	55.1%	16	13.6%	17	
- Pediatric anesthesiology	64	22	34.4%	42	65.6%	9	14.1%	12	
- Pediatric cardiac anesthesiology	15	5	33.3%	10	66.7%	4	26.7%	4	
- Regional anesthesiology and acute pain medicine	46	16	34.8%	30	65.2%	3	6.5%	5	
Colon and rectal surgery	74	36	48.6%	38	51.4%	6	8.1%	8	
Dermatology	145	83	57.2%	62	42.8%	20	13.8%	25	
- Dermatopathology (multidisciplinary)	58	30	51.7%	28	48.3%	7	12.1%	10	
- Micrographic surgery and dermatologic oncology	84	48	57.1%	36	42.9%	9	10.7%	12	
- Pediatric dermatology	37	21	56.8%	16	43.2%	5	13.5%	6	
Emergency medicine	297	109	36.7%	188	63.3%	38	12.8%	45	
- Emergency medical services	88	48	54.5%	40	45.5%	12	13.6%	12	
- Medical toxicology	32	17	53.1%	15	46.9%	5	15.6%	6	
- Pediatric emergency medicine	30	15	50.0%	15	50.0%	8	26.7%	9	
- Sports medicine	11	6	54.5%	5	45.5%	3	27.3%	3	
- Undersea and hyperbaric medicine	8	4	50.0%	4	50.0%	1	12.5%	1	
Family medicine	817	507	62.1%	310	37.9%	93	11.4%	111	
- Clinical informatics	10	4	40.0%	6	60.0%	3	30.0%	3	
- Geriatric medicine	44	35	79.5%	9	20.5%	5	11.4%	5	
- Hospice and palliative medicine (multidisciplinary)	190	108	56.8%	82	43.2%	30	15.8%	32	
- Sports medicine	173	121	69.9%	52	30.1%	24	13.9%	25	
Internal medicine	688	264	38.4%	424	61.6%	99	14.4%	128	
- Adult congenital heart disease	32	8	25.0%	24	75.0%	3	9.4%	6	
- Advanced heart failure and transplant cardiology	84	22	26.2%	62	73.8%	16	19.0%	19	
- Cardiovascular disease	294	143	48.6%	151	51.4%	50	17.0%	62	
- Clinical cardiac electrophysiology	122	49	40.2%	73	59.8%	18	14.8%	22	
- Clinical informatics	31	16	51.6%	15	48.4%	3	9.7%	4	
- Critical care medicine	79	38	48.1%	41	51.9%	13	16.5%	18	
- Endocrinology, diabetes, and metabolism	163	86	52.8%	77	47.2%	17	10.4%	22	
- Gastroenterology	242	146	60.3%	96	39.7%	25	10.3%	26	
- Geriatric medicine	118	73	61.9%	45	38.1%	16	13.6%	21	
- Hematology and medical oncology	195	111	56.9%	84	43.1%	25	12.8%	27	
- Infectious disease	170	102	60.0%	68	40.0%	22	12.9%	29	
- Interventional cardiology	189	86	45.5%	103	54.5%	26	13.8%	32	
- Interventional pulmonology	41	18	43.9%	23	56.1%	4	9.8%	4	
- Medical oncology	1	0	0.0%	1	100.0%	0	0.0%	0	
- Nephrology	152	93	61.2%	59	38.8%	14	9.2%	15	
- Pulmonary disease	16	9	56.3%	7	43.8%	3	18.8%	5	
- Pulmonary disease and critical care medicine	219	114	52.1%	105	47.9%	20	9.1%	24	
- Rheumatology	138	77	55.8%	61	44.2%	16	11.6%	18	
- Sleep medicine (multidisciplinary)	99	53	53.5%	46	46.5%	10	10.1%	10	
- Transplant hepatology	70	32	45.7%	38	54.3%	5	7.1%	5	
Medical genetics and genomics	44	23	52.3%	21	47.7%	5	11.4%	5	
- Medical biochemical genetics	22	10	45.5%	12	54.5%	2	9.1%	2	
- Molecular genetic pathology (multidisciplinary)	44	14	31.8%	30	68.2%	8	18.2%	11	
Clinical biochemical genetics	14	7	50.0%	7	50.0%	1	7.1%	1	
Laboratory genetics and genomics	38	13	34.2%	25	65.8%	5	13.2%	8	
Neurological surgery	119	74	62.2%	45	37.8%	6	5.0%	6	
- Neuroendovascular intervention	3	3	100.0%	0	0.0%	1	33.3%	1	

TABLE G.13 *Continued*

## Number and Percent of Program Coordinator Changes

Specialty	Total Programs	Number of Programs with Multiple Program Coordinators				Number of Programs with Program Coordinator Changes		Number of New Program Coordinators	
		No		Yes		N	%		
		N	%	N	%				
Neurology	197	94	47.7%	103	52.3%	21	10.7%	25	
- Clinical neurophysiology	98	41	41.8%	57	58.2%	10	10.2%	10	
- Epilepsy	100	43	43.0%	57	57.0%	18	18.0%	23	
- Neurocritical care (multidisciplinary)	65	27	41.5%	38	58.5%	9	13.8%	9	
- Neuroendovascular intervention	2	1	50.0%	1	50.0%	0	0.0%	0	
- Neurodevelopmental disabilities	11	3	27.3%	8	72.7%	2	18.2%	2	
- Neuromuscular medicine	59	22	37.3%	37	62.7%	11	18.6%	11	
- Vascular neurology	115	59	51.3%	56	48.7%	16	13.9%	16	
Child neurology	83	36	43.4%	47	56.6%	14	16.9%	19	
Nuclear medicine	33	12	36.4%	21	63.6%	4	12.1%	4	
Obstetrics and gynecology	303	147	48.5%	156	51.5%	43	14.2%	57	
- Urogynecology and reconstructive pelvic surgery	59	21	35.6%	38	64.4%	10	16.9%	11	
- Gynecologic oncology	75	27	36.0%	48	64.0%	9	12.0%	9	
- Maternal-fetal medicine	114	60	52.6%	54	47.4%	13	11.4%	14	
- Reproductive endocrinology and infertility	52	21	40.4%	31	59.6%	2	3.8%	2	
- Complex family planning	36	12	33.3%	24	66.7%	4	11.1%	5	
Ophthalmology	128	77	60.2%	51	39.8%	13	10.2%	14	
- Ophthalmic plastic and reconstructive surgery	4	3	75.0%	1	25.0%	1	25.0%	1	
Orthopaedic surgery	209	104	49.8%	105	50.2%	23	11.0%	29	
- Adult reconstructive orthopaedics	26	10	38.5%	16	61.5%	3	11.5%	3	
- Foot and ankle orthopaedics	9	3	33.3%	6	66.7%	1	11.1%	1	
- Hand surgery	77	36	46.8%	41	53.2%	9	11.7%	10	
- Musculoskeletal oncology	12	5	41.7%	7	58.3%	1	8.3%	1	
- Orthopaedic sports medicine	95	47	49.5%	48	50.5%	11	11.6%	11	
- Orthopaedic surgery of the spine	16	6	37.5%	10	62.5%	4	25.0%	4	
- Orthopaedic trauma	13	3	23.1%	10	76.9%	0	0.0%	0	
- Pediatric orthopaedics	25	10	40.0%	15	60.0%	4	16.0%	5	
Osteopathic neuromusculoskeletal medicine	26	13	50.0%	13	50.0%	3	11.5%	4	
Otolaryngology - head and neck surgery	131	72	55.0%	59	45.0%	14	10.7%	18	
- Neurootology	29	17	58.6%	12	41.4%	4	13.8%	4	
- Pediatric otolaryngology	34	15	44.1%	19	55.9%	7	20.6%	7	
Pathology-anatomic and clinical	142	79	55.6%	63	44.4%	17	12.0%	21	
- Blood banking/transfusion medicine	57	22	38.6%	35	61.4%	12	21.1%	14	
- Clinical informatics	10	3	30.0%	7	70.0%	1	10.0%	1	
- Chemical pathology	4	2	50.0%	2	50.0%	0	0.0%	0	
- Cytopathology	91	46	50.5%	45	49.5%	11	12.1%	13	
- Forensic pathology	52	31	59.6%	21	40.4%	8	15.4%	9	
- Hematopathology	86	41	47.7%	45	52.3%	12	14.0%	12	
- Medical microbiology	16	4	25.0%	12	75.0%	4	25.0%	5	
- Neuropathology	41	10	24.4%	31	75.6%	5	12.2%	6	
- Pediatric pathology	27	12	44.4%	15	55.6%	3	11.1%	4	
- Selective pathology	134	54	40.3%	80	59.7%	28	20.9%	37	
Pediatrics	217	77	35.5%	140	64.5%	18	8.3%	24	
- Adolescent medicine	33	15	45.5%	18	54.5%	2	6.1%	2	
- Child abuse pediatrics	34	20	58.8%	14	41.2%	4	11.8%	5	
- Clinical informatics	11	2	18.2%	9	81.8%	0	0.0%	0	
- Developmental-behavioral pediatrics	46	29	63.0%	17	37.0%	7	15.2%	8	
- Neonatal-perinatal medicine	110	50	45.5%	60	54.5%	19	17.3%	25	
- Pediatric cardiology	64	20	31.3%	44	68.8%	8	12.5%	12	
- Pediatric critical care medicine	78	29	37.2%	49	62.8%	16	20.5%	18	
- Pediatric emergency medicine	60	31	51.7%	29	48.3%	7	11.7%	8	
- Pediatric endocrinology	72	30	41.7%	42	58.3%	13	18.1%	18	
- Pediatric gastroenterology	69	25	36.2%	44	63.8%	9	13.0%	9	
- Pediatric hematology/oncology	79	34	43.0%	45	57.0%	9	11.4%	10	
- Pediatric infectious diseases	65	27	41.5%	38	58.5%	7	10.8%	9	

TABLE G.13 *Continued*

## Number and Percent of Program Coordinator Changes

Specialty	Total Programs	Number of Programs with Multiple Program Coordinators				Number of Programs with Program Coordinator Changes		Number of New Program Coordinators	
		No		Yes		N	%		
		N	%	N	%				
- Pediatric nephrology	49	15	30.6%	34	69.4%	7	14.3%	9	
- Pediatric pulmonology	58	26	44.8%	32	55.2%	7	12.1%	9	
- Pediatric rheumatology	39	13	33.3%	26	66.7%	3	7.7%	4	
- Sports medicine	17	9	52.9%	8	47.1%	1	5.9%	1	
- Pediatric transplant hepatology	17	8	47.1%	9	52.9%	0	0.0%	0	
- Pediatric hospital medicine	80	39	48.8%	41	51.3%	12	15.0%	13	
Physical medicine and rehabilitation	112	64	57.1%	48	42.9%	20	17.9%	25	
- Brain injury medicine	29	20	69.0%	9	31.0%	0	0.0%	0	
- Neuromuscular medicine	1	0	0.0%	1	100.0%	0	0.0%	0	
- Spinal cord injury medicine	26	14	53.8%	12	46.2%	1	3.8%	1	
- Pediatric rehabilitation medicine	24	10	41.7%	14	58.3%	2	8.3%	2	
- Sports medicine	24	11	45.8%	13	54.2%	4	16.7%	4	
Plastic surgery	49	25	51.0%	24	49.0%	6	12.2%	8	
- Craniofacial surgery	9	4	44.4%	5	55.6%	0	0.0%	0	
- Hand surgery	19	8	42.1%	11	57.9%	2	10.5%	2	
Plastic Surgery - integrated	89	40	44.9%	49	55.1%	9	10.1%	11	
Public health and general preventive medicine	40	26	65.0%	14	35.0%	3	7.5%	3	
- Undersea and hyperbaric medicine	1	1	100.0%	0	0.0%	0	0.0%	0	
Aerospace medicine	5	3	60.0%	2	40.0%	1	20.0%	1	
Occupational and environmental medicine	22	16	72.7%	6	27.3%	2	9.1%	2	
Psychiatry	353	183	51.8%	170	48.2%	57	16.1%	70	
- Addiction medicine (multidisciplinary)	108	61	56.5%	47	43.5%	14	13.0%	15	
- Addiction psychiatry	54	18	33.3%	36	66.7%	8	14.8%	9	
- Child and adolescent psychiatry	158	79	50.0%	79	50.0%	13	8.2%	16	
- Forensic psychiatry	60	26	43.3%	34	56.7%	12	20.0%	14	
- Geriatric psychiatry	60	29	48.3%	31	51.7%	4	6.7%	4	
- Consultation-liaison psychiatry	69	36	52.2%	33	47.8%	4	5.8%	4	
Radiation oncology	87	57	65.5%	30	34.5%	6	6.9%	6	
Radiology-diagnostic	200	93	46.5%	107	53.5%	25	12.5%	26	
- Abdominal radiology	13	3	23.1%	10	76.9%	0	0.0%	0	
- Musculoskeletal radiology	23	8	34.8%	15	65.2%	4	17.4%	5	
- Neuroendovascular intervention	5	2	40.0%	3	60.0%	2	40.0%	2	
- Neuroradiology	93	30	32.3%	63	67.7%	13	14.0%	15	
- Nuclear radiology	19	5	26.3%	14	73.7%	2	10.5%	2	
- Pediatric radiology	48	25	52.1%	23	47.9%	7	14.6%	9	
Interventional radiology - independent	91	25	27.5%	66	72.5%	15	16.5%	19	
Interventional radiology - integrated	101	22	21.8%	79	78.2%	18	17.8%	20	
Surgery	365	145	39.7%	220	60.3%	55	15.1%	69	
- Complex general surgical oncology	35	12	34.3%	23	65.7%	10	28.6%	14	
- Hand surgery	2	1	50.0%	1	50.0%	0	0.0%	0	
- Pediatric surgery	52	23	44.2%	29	55.8%	7	13.5%	7	
- Surgical critical care	171	83	48.5%	88	51.5%	17	9.9%	21	
- Vascular surgery - independent	123	57	46.3%	66	53.7%	15	12.2%	19	
Vascular surgery - integrated	81	29	35.8%	52	64.2%	10	12.3%	12	
Thoracic surgery - independent	79	36	45.6%	43	54.4%	11	13.9%	15	
- Congenital cardiac surgery	17	11	64.7%	6	35.3%	0	0.0%	0	
Thoracic surgery - integrated	36	14	38.9%	22	61.1%	5	13.9%	5	
Urology	152	90	59.2%	62	40.8%	19	12.5%	23	
- Urogynecology and reconstructive pelvic surgery	16	8	50.0%	8	50.0%	1	6.3%	1	
- Pediatric urology	28	17	60.7%	11	39.3%	3	10.7%	4	
Transitional year	201	114	56.7%	87	43.3%	36	17.9%	42	
Internal medicine/Pediatrics	78	49	62.8%	29	37.2%	8	10.3%	9	
Health care administration, leadership, and management	9	9	100.0%	0	0.0%	0	0.0%	0	

Note: Pipeline specialties are highlighted.



# Program Activities

This section summarizes the education residents receive about pain management, including the recognition of the signs of addiction, by specialty and subspecialty programs during the 2024-2025 academic year.

## **Pain Management and Recognition of Addiction**

The following education types were offered to manage pain and recognize addiction by the highest percentage of specialty programs:

- Recognition of dependence and addiction (88.6%)
- Pharmacologic pain management (87.4%)
- Non-pharmacologic pain management (83.9%)
- Opioid prescribing and management, including opioid selection, dosage and duration (83.5%)

Similar patterns can be seen in education types across subspecialty programs. ↗

TABLE H.1

Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education and by Specialty and Subspecialty

Specialty	Number of Programs	Non-Pharmacologic Pain Management		Pharmacologic Pain Management		Opioid Prescribing and Management, Including Opioid Selection, Dosage, and Duration		Recognition of Dependence and Addiction	
		#	%	#	%	#	%	#	%
OVERALL	13,736	11,519	83.9%	12,002	87.4%	11,471	83.5%	12,168	88.6%
TOTAL PIPELINE	5,621	5,070	90.2%	5,280	93.9%	5,205	92.6%	5,293	94.2%
Allergy and immunology	91	54	59.3%	55	60.4%	49	53.8%	61	67.0%
Anesthesiology	182	180	98.9%	182	100.0%	182	100.0%	182	100.0%
- Adult cardiothoracic anesthesiology	76	66	86.8%	75	98.7%	55	72.4%	69	90.8%
- Critical care medicine	68	61	89.7%	68	100.0%	61	89.7%	62	91.2%
- Obstetric anesthesiology	45	41	91.1%	44	97.8%	39	86.7%	43	95.6%
- Pain medicine (multidisciplinary)	118	118	100.0%	118	100.0%	118	100.0%	118	100.0%
- Pediatric anesthesiology	64	63	98.4%	64	100.0%	58	90.6%	60	93.8%
- Pediatric cardiac anesthesiology	15	14	93.3%	15	100.0%	12	80.0%	15	100.0%
- Regional anesthesiology and acute pain medicine	46	44	95.7%	45	97.8%	45	97.8%	46	100.0%
Colon and rectal surgery	74	61	82.4%	71	95.9%	72	97.3%	65	87.8%
Dermatology	145	118	81.4%	135	93.1%	113	77.9%	123	84.8%
- Dermatopathology (multidisciplinary)	56	18	32.1%	17	30.4%	21	37.5%	29	51.8%
- Micrographic surgery and dermatologic oncology	83	70	84.3%	74	89.2%	74	89.2%	74	89.2%
- Pediatric dermatology	37	31	83.8%	32	86.5%	22	59.5%	23	62.2%
Emergency medicine	297	286	96.3%	296	99.7%	296	99.7%	295	99.3%
- Emergency medical services	88	83	94.3%	86	97.7%	78	88.6%	82	93.2%
- Medical toxicology	32	31	96.9%	32	100.0%	32	100.0%	32	100.0%
- Pediatric emergency medicine	30	30	100.0%	30	100.0%	28	93.3%	30	100.0%
- Sports medicine	11	8	72.7%	8	72.7%	9	81.8%	11	100.0%
- Undersea and hyperbaric medicine	8	7	87.5%	6	75.0%	5	62.5%	7	87.5%
Family medicine	817	816	99.9%	815	99.8%	813	99.5%	816	99.9%
- Clinical informatics	10	6	60.0%	6	60.0%	6	60.0%	6	60.0%
- Geriatric medicine	44	42	95.5%	43	97.7%	41	93.2%	44	100.0%
- Hospice and palliative medicine (multidisciplinary)	190	190	100.0%	190	100.0%	188	98.9%	189	99.5%
- Sports medicine	173	170	98.3%	168	97.1%	153	88.4%	153	88.4%
Internal medicine	687	669	97.4%	683	99.4%	680	99.0%	681	99.1%
- Adult congenital heart disease	32	24	75.0%	26	81.3%	17	53.1%	27	84.4%
- Advanced heart failure and transplant cardiology	84	63	75.0%	69	82.1%	58	69.0%	69	82.1%
- Cardiovascular disease	294	220	74.8%	250	85.0%	235	79.9%	254	86.4%
- Clinical cardiac electrophysiology	122	87	71.3%	99	81.1%	100	82.0%	95	77.9%
- Clinical informatics	31	17	54.8%	19	61.3%	19	61.3%	19	61.3%
- Critical care medicine	79	72	91.1%	77	97.5%	71	89.9%	76	96.2%
- Endocrinology, diabetes, and metabolism	163	97	59.5%	105	64.4%	78	47.9%	124	76.1%
- Gastroenterology	241	211	87.6%	216	89.6%	193	80.1%	219	90.9%
- Geriatric medicine	118	118	100.0%	118	100.0%	118	100.0%	114	96.6%
- Hematology and medical oncology	195	181	92.8%	194	99.5%	190	97.4%	175	89.7%
- Infectious disease	170	110	64.7%	112	65.9%	99	58.2%	157	92.4%
- Interventional cardiology	189	141	74.6%	154	81.5%	132	69.8%	161	85.2%
- Interventional pulmonology	41	25	61.0%	29	70.7%	24	58.5%	25	61.0%
- Medical oncology	1	0	0.0%	1	100.0%	1	100.0%	1	100.0%
- Nephrology	152	116	76.3%	131	86.2%	113	74.3%	115	75.7%
- Pulmonary disease	16	12	75.0%	14	87.5%	15	93.8%	16	100.0%
- Pulmonary disease and critical care medicine	219	193	88.1%	213	97.3%	199	90.9%	203	92.7%
- Rheumatology	138	137	99.3%	136	98.6%	112	81.2%	118	85.5%
- Sleep medicine (multidisciplinary)	99	66	66.7%	59	59.6%	64	64.6%	83	83.8%
- Transplant hepatology	70	57	81.4%	58	82.9%	52	74.3%	65	92.9%
Medical genetics and genomics	44	26	59.1%	26	59.1%	25	56.8%	35	79.5%
- Medical biochemical genetics	20	14	70.0%	14	70.0%	12	60.0%	17	85.0%
- Molecular genetic pathology (multidisciplinary)	44	12	27.3%	12	27.3%	10	22.7%	22	50.0%
Clinical biochemical genetics	14	8	57.1%	5	35.7%	4	28.6%	6	42.9%
Laboratory genetics and genomics	37	9	24.3%	8	21.6%	8	21.6%	14	37.8%
Neurological surgery	119	109	91.6%	113	95.0%	116	97.5%	115	96.6%
- Neuroendovascular intervention	3	2	66.7%	2	66.7%	3	100.0%	2	66.7%

TABLE H.1 *Continued Extended*

Referral for Dependence and Addiction Treatment		Treatment of Dependence and Addiction		Other		Do Not Provide This Education/Not Applicable		Identifying and Eliminating Stigma, Stereotypes and Bias Around Patients with Substance-Use Disorder		Communicating with Patients About a Pain Treatment Plan	
						#	%	#	%	#	%
10,754	78.3%	7,544	54.9%	343	2.5%	456	3.3%	6,602	48.1%	7,343	53.5%
4,914	87.4%	3,827	68.1%	134	2.4%	80	1.4%	3,541	63.0%	3,835	68.2%
54	59.3%	19	20.9%	5	5.5%	8	8.8%	20	22.0%	19	20.9%
173	95.1%	161	88.5%	4	2.2%	0	0.0%	154	84.6%	167	91.8%
46	60.5%	33	43.4%	0	0.0%	0	0.0%	21	27.6%	31	40.8%
56	82.4%	48	70.6%	1	1.5%	0	0.0%	31	45.6%	37	54.4%
35	77.8%	33	73.3%	2	4.4%	0	0.0%	30	66.7%	33	73.3%
118	100.0%	105	89.0%	7	5.9%	0	0.0%	92	78.0%	101	85.6%
47	73.4%	41	64.1%	1	1.6%	0	0.0%	28	43.8%	41	64.1%
10	66.7%	7	46.7%	0	0.0%	0	0.0%	4	26.7%	7	46.7%
43	93.5%	37	80.4%	1	2.2%	0	0.0%	24	52.2%	33	71.7%
53	71.6%	29	39.2%	2	2.7%	0	0.0%	26	35.1%	40	54.1%
103	71.0%	31	21.4%	2	1.4%	0	0.0%	50	34.5%	66	45.5%
18	32.1%	9	16.1%	2	3.6%	19	33.9%	6	10.7%	4	7.1%
57	68.7%	17	20.5%	2	2.4%	0	0.0%	15	18.1%	34	41.0%
21	56.8%	6	16.2%	1	2.7%	1	2.7%	7	18.9%	16	43.2%
294	99.0%	291	98.0%	13	4.4%	0	0.0%	274	92.3%	256	86.2%
77	87.5%	71	80.7%	5	5.7%	0	0.0%	57	64.8%	45	51.1%
32	100.0%	31	96.9%	1	3.1%	0	0.0%	24	75.0%	16	50.0%
25	83.3%	19	63.3%	0	0.0%	0	0.0%	12	40.0%	14	46.7%
9	81.8%	5	45.5%	0	0.0%	0	0.0%	4	36.4%	7	63.6%
7	87.5%	0	0.0%	0	0.0%	1	12.5%	2	25.0%	3	37.5%
809	99.0%	771	94.4%	23	2.8%	0	0.0%	732	89.6%	754	92.3%
6	60.0%	6	60.0%	1	10.0%	4	40.0%	4	40.0%	4	40.0%
43	97.7%	27	61.4%	2	4.5%	0	0.0%	28	63.6%	35	79.5%
186	97.9%	154	81.1%	13	6.8%	0	0.0%	156	82.1%	166	87.4%
139	80.3%	74	42.8%	3	1.7%	1	6.6%	80	46.2%	113	65.3%
668	97.2%	613	89.2%	16	2.3%	0	0.0%	572	83.3%	590	85.9%
24	75.0%	9	28.1%	0	0.0%	0	0.0%	9	28.1%	9	28.1%
55	65.5%	26	31.0%	1	1.2%	2	2.4%	15	17.9%	28	33.3%
211	71.8%	113	38.4%	3	1.0%	5	1.7%	100	34.0%	104	35.4%
72	59.0%	38	31.1%	4	3.3%	1	0.8%	32	26.2%	47	38.5%
17	54.8%	13	41.9%	2	6.5%	6	19.4%	5	16.1%	7	22.6%
65	82.3%	53	67.1%	0	0.0%	0	0.0%	49	62.0%	46	58.2%
102	62.6%	38	23.3%	2	1.2%	15	9.2%	32	19.6%	33	20.2%
204	84.6%	103	42.7%	4	1.7%	1	0.4%	103	42.7%	99	41.1%
106	89.8%	77	65.3%	2	1.7%	0	0.0%	62	52.5%	89	75.4%
153	78.5%	75	38.5%	2	1.0%	0	0.0%	78	40.0%	139	71.3%
152	89.4%	81	47.6%	4	2.4%	2	1.2%	99	58.2%	60	35.3%
126	66.7%	63	33.3%	4	2.1%	0	0.0%	49	25.9%	50	26.5%
23	56.1%	5	12.2%	1	2.4%	1	2.4%	16	39.0%	24	58.5%
1	100.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%	1	100.0%
111	73.0%	51	33.6%	3	2.0%	1	0.7%	56	36.8%	57	37.5%
13	81.3%	11	68.8%	0	0.0%	0	0.0%	5	31.3%	4	25.0%
178	81.3%	120	54.8%	0	0.0%	0	0.0%	99	45.2%	105	47.9%
104	75.4%	38	27.5%	4	2.9%	0	0.0%	62	44.9%	88	63.8%
64	64.6%	24	24.2%	3	3.0%	0	0.0%	29	29.3%	31	31.3%
57	81.4%	37	52.9%	0	0.0%	0	0.0%	27	38.6%	18	25.7%
27	61.4%	15	34.1%	1	2.3%	6	13.6%	7	15.9%	6	13.6%
9	45.0%	6	30.0%	0	0.0%	2	10.0%	4	20.0%	3	15.0%
16	36.4%	9	20.5%	1	2.3%	18	40.9%	2	4.5%	3	6.8%
3	21.4%	2	14.3%	0	0.0%	5	35.7%	0	0.0%	0	0.0%
9	24.3%	6	16.2%	1	2.7%	17	45.9%	1	2.7%	3	8.1%
100	84.0%	64	53.8%	5	4.2%	0	0.0%	54	45.4%	76	63.9%
2	66.7%	2	66.7%	0	0.0%	0	0.0%	1	33.3%	1	33.3%

TABLE H.1 *Continued*

## Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education and by Specialty and Subspecialty

Specialty	Number of Programs	Non-Pharmacologic Pain Management		Pharmacologic Pain Management		Opioid Prescribing and Management, Including Opioid Selection, Dosage, and Duration		Recognition of Dependence and Addiction	
		#	%	#	%	#	%	#	%
Neurology	197	189	95.9%	196	99.5%	171	86.8%	185	93.9%
- Clinical neurophysiology	98	75	76.5%	80	81.6%	67	68.4%	75	76.5%
- Epilepsy	100	61	61.0%	68	68.0%	58	58.0%	76	76.0%
- Neurocritical care (multidisciplinary)	65	64	98.5%	64	98.5%	59	90.8%	59	90.8%
- Neuroendovascular intervention	2	2	100.0%	2	100.0%	1	50.0%	2	100.0%
- Neurodevelopmental disabilities	11	11	100.0%	10	90.9%	7	63.6%	9	81.8%
- Neuromuscular medicine	59	56	94.9%	56	94.9%	39	66.1%	50	84.7%
- Vascular neurology	115	97	84.3%	98	85.2%	82	71.3%	98	85.2%
Child neurology	83	82	98.8%	82	98.8%	55	66.3%	67	80.7%
Nuclear medicine	33	23	69.7%	19	57.6%	19	57.6%	24	72.7%
Obstetrics and gynecology	303	291	96.0%	302	99.7%	299	98.7%	301	99.3%
- Urogynecology and reconstructive pelvic surgery	59	57	96.6%	59	100.0%	57	96.6%	54	91.5%
- Gynecologic oncology	75	69	92.0%	75	100.0%	74	98.7%	70	93.3%
- Maternal-fetal medicine	114	110	96.5%	112	98.2%	110	96.5%	113	99.1%
- Reproductive endocrinology and infertility	52	48	92.3%	51	98.1%	47	90.4%	43	82.7%
- Complex family planning	36	36	100.0%	36	100.0%	34	94.4%	35	97.2%
Ophthalmology	128	99	77.3%	106	82.8%	101	78.9%	106	82.8%
- Ophthalmic plastic and reconstructive surgery	4	3	75.0%	4	100.0%	3	75.0%	3	75.0%
Orthopaedic surgery	209	196	93.8%	203	97.1%	207	99.0%	197	94.3%
- Adult reconstructive orthopaedics	26	24	92.3%	24	92.3%	26	100.0%	25	96.2%
- Foot and ankle orthopaedics	9	8	88.9%	9	100.0%	9	100.0%	9	100.0%
- Hand surgery	77	70	90.9%	73	94.8%	74	96.1%	67	87.0%
- Musculoskeletal oncology	12	10	83.3%	11	91.7%	12	100.0%	9	75.0%
- Orthopaedic sports medicine	95	93	97.9%	92	96.8%	93	97.9%	89	93.7%
- Orthopaedic surgery of the spine	16	13	81.3%	15	93.8%	15	93.8%	15	93.8%
- Orthopaedic trauma	13	12	92.3%	13	100.0%	13	100.0%	13	100.0%
- Pediatric orthopaedics	25	25	100.0%	24	96.0%	25	100.0%	22	88.0%
Osteopathic neuromusculoskeletal medicine	26	26	100.0%	26	100.0%	24	92.3%	26	100.0%
Otolaryngology- head and neck surgery	131	117	89.3%	130	99.2%	131	100.0%	124	94.7%
- Neurotology	29	25	86.2%	26	89.7%	27	93.1%	25	86.2%
- Pediatric otolaryngology	34	30	88.2%	33	97.1%	31	91.2%	24	70.6%
Pathology-anatomic and clinical	142	37	26.1%	37	26.1%	46	32.4%	76	53.5%
- Blood banking/transfusion medicine	57	11	19.3%	13	22.8%	15	26.3%	25	43.9%
- Clinical informatics	10	6	60.0%	5	50.0%	5	50.0%	5	50.0%
- Chemical pathology	4	1	25.0%	1	25.0%	0	0.0%	0	0.0%
- Cytopathology	89	23	25.8%	26	29.2%	26	29.2%	43	48.3%
- Forensic pathology	48	7	14.6%	11	22.9%	9	18.8%	30	62.5%
- Hematopathology	82	15	18.3%	19	23.2%	20	24.4%	42	51.2%
- Medical microbiology	15	4	26.7%	4	26.7%	4	26.7%	4	26.7%
- Neuropathology	41	8	19.5%	9	22.0%	7	17.1%	17	41.5%
- Pediatric pathology	27	3	11.1%	4	14.8%	6	22.2%	14	51.9%
- Selective pathology	132	36	27.3%	39	29.5%	38	28.8%	62	47.0%
Pediatrics	217	213	98.2%	215	99.1%	212	97.7%	212	97.7%
- Adolescent medicine	33	32	97.0%	30	90.9%	24	72.7%	33	100.0%
- Child abuse pediatrics	33	19	57.6%	17	51.5%	19	57.6%	28	84.8%
- Clinical informatics	11	2	18.2%	4	36.4%	5	45.5%	5	45.5%
- Developmental-behavioral pediatrics	45	36	80.0%	29	64.4%	22	48.9%	43	95.6%
- Neonatal-perinatal medicine	110	106	96.4%	106	96.4%	103	93.6%	91	82.7%
- Pediatric cardiology	64	51	79.7%	60	93.8%	56	87.5%	51	79.7%
- Pediatric critical care medicine	78	74	94.9%	77	98.7%	73	93.6%	69	88.5%
- Pediatric emergency medicine	60	58	96.7%	60	100.0%	59	98.3%	54	90.0%
- Pediatric endocrinology	72	45	62.5%	41	56.9%	35	48.6%	51	70.8%
- Pediatric gastroenterology	69	62	89.9%	61	88.4%	58	84.1%	55	79.7%
- Pediatric hematology/oncology	79	78	98.7%	79	100.0%	78	98.7%	73	92.4%
- Pediatric infectious diseases	65	43	66.2%	44	67.7%	41	63.1%	53	81.5%

TABLE H.1 *Continued Extended*

Referral for Dependence and Addiction Treatment		Treatment of Dependence and Addiction		Other		Do Not Provide This Education/Not Applicable		Identifying and Eliminating Stigma, Stereotypes and Bias Around Patients with Substance-Use Disorder		Communicating with Patients About a Pain Treatment Plan	
						#	%	#	%	#	%
175	88.8%	109	55.3%	2	1.0%	0	0.0%	105	53.3%	124	62.9%
64	65.3%	31	31.6%	3	3.1%	3	3.1%	18	18.4%	29	29.6%
57	57.0%	23	23.0%	3	3.0%	4	4.0%	16	16.0%	21	21.0%
48	73.8%	37	56.9%	1	1.5%	0	0.0%	38	58.5%	49	75.4%
2	100.0%	2	100.0%	0	0.0%	0	0.0%	2	100.0%	2	100.0%
7	63.6%	3	27.3%	0	0.0%	0	0.0%	3	27.3%	5	45.5%
42	71.2%	13	22.0%	0	0.0%	0	0.0%	13	22.0%	20	33.9%
80	69.6%	36	31.3%	0	0.0%	1	0.9%	31	27.0%	33	28.7%
60	72.3%	33	39.8%	1	1.2%	0	0.0%	25	30.1%	37	44.6%
19	57.6%	13	39.4%	0	0.0%	2	6.1%	6	18.2%	7	21.2%
299	98.7%	235	77.6%	4	1.3%	0	0.0%	240	79.2%	224	73.9%
45	76.3%	22	37.3%	1	1.7%	0	0.0%	17	28.8%	27	45.8%
66	88.0%	26	34.7%	4	5.3%	0	0.0%	32	42.7%	49	65.3%
110	96.5%	95	83.3%	3	2.6%	0	0.0%	79	69.3%	70	61.4%
34	65.4%	15	28.8%	1	1.9%	0	0.0%	19	36.5%	19	36.5%
32	88.9%	15	41.7%	0	0.0%	0	0.0%	18	50.0%	13	36.1%
92	71.9%	38	29.7%	4	3.1%	2	1.6%	43	33.6%	46	35.9%
3	75.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%	0	0.0%
177	84.7%	101	48.3%	4	1.9%	0	0.0%	96	45.9%	135	64.6%
22	84.6%	10	38.5%	0	0.0%	0	0.0%	4	15.4%	10	38.5%
8	88.9%	3	33.3%	0	0.0%	0	0.0%	2	22.2%	3	33.3%
54	70.1%	26	33.8%	2	2.6%	0	0.0%	15	19.5%	29	37.7%
8	66.7%	4	33.3%	0	0.0%	0	0.0%	3	25.0%	4	33.3%
75	78.9%	34	35.8%	4	4.2%	0	0.0%	21	22.1%	45	47.4%
12	75.0%	5	31.3%	0	0.0%	0	0.0%	3	18.8%	4	25.0%
9	69.2%	4	30.8%	0	0.0%	0	0.0%	2	15.4%	7	53.8%
17	68.0%	6	24.0%	0	0.0%	0	0.0%	5	20.0%	14	56.0%
25	96.2%	15	57.7%	0	0.0%	0	0.0%	16	61.5%	16	61.5%
110	84.0%	58	44.3%	0	0.0%	0	0.0%	53	40.5%	74	56.5%
17	58.6%	7	24.1%	0	0.0%	0	0.0%	4	13.8%	9	31.0%
18	52.9%	8	23.5%	0	0.0%	0	0.0%	4	11.8%	17	50.0%
53	37.3%	31	21.8%	9	6.3%	53	37.3%	15	10.6%	8	5.6%
19	33.3%	6	10.5%	3	5.3%	20	35.1%	1	1.8%	1	1.8%
3	30.0%	2	20.0%	1	10.0%	2	20.0%	0	0.0%	1	10.0%
2	50.0%	0	0.0%	1	25.0%	1	25.0%	0	0.0%	0	0.0%
31	34.8%	15	16.9%	4	4.5%	32	36.0%	4	4.5%	8	9.0%
10	20.8%	9	18.8%	6	12.5%	16	33.3%	11	22.9%	2	4.2%
25	30.5%	11	13.4%	4	4.9%	33	40.2%	4	4.9%	6	7.3%
3	20.0%	3	20.0%	0	0.0%	10	66.7%	0	0.0%	1	6.7%
8	19.5%	4	9.8%	2	4.9%	21	51.2%	0	0.0%	0	0.0%
10	37.0%	2	7.4%	2	7.4%	11	40.7%	1	3.7%	0	0.0%
53	40.2%	36	27.3%	9	6.8%	52	39.4%	13	9.8%	11	8.3%
199	91.7%	143	65.9%	0	0.0%	0	0.0%	144	66.4%	169	77.9%
33	100.0%	26	78.8%	0	0.0%	0	0.0%	26	78.8%	18	54.5%
23	69.7%	11	33.3%	1	3.0%	3	9.1%	15	45.5%	5	15.2%
2	18.2%	2	18.2%	2	18.2%	4	36.4%	1	9.1%	1	9.1%
37	82.2%	16	35.6%	3	6.7%	0	0.0%	17	37.8%	9	20.0%
58	52.7%	81	73.6%	5	4.5%	0	0.0%	52	47.3%	46	41.8%
29	45.3%	23	35.9%	2	3.1%	0	0.0%	12	18.8%	28	43.8%
45	57.7%	46	59.0%	3	3.8%	1	1.3%	21	26.9%	39	50.0%
43	71.7%	38	63.3%	1	1.7%	0	0.0%	25	41.7%	35	58.3%
41	56.9%	15	20.8%	0	0.0%	10	13.9%	15	20.8%	9	12.5%
47	68.1%	23	33.3%	0	0.0%	0	0.0%	15	21.7%	29	42.0%
54	68.4%	33	41.8%	0	0.0%	0	0.0%	38	48.1%	63	79.7%
42	64.6%	16	24.6%	2	3.1%	2	3.1%	21	32.3%	18	27.7%

TABLE H.1 *Continued*

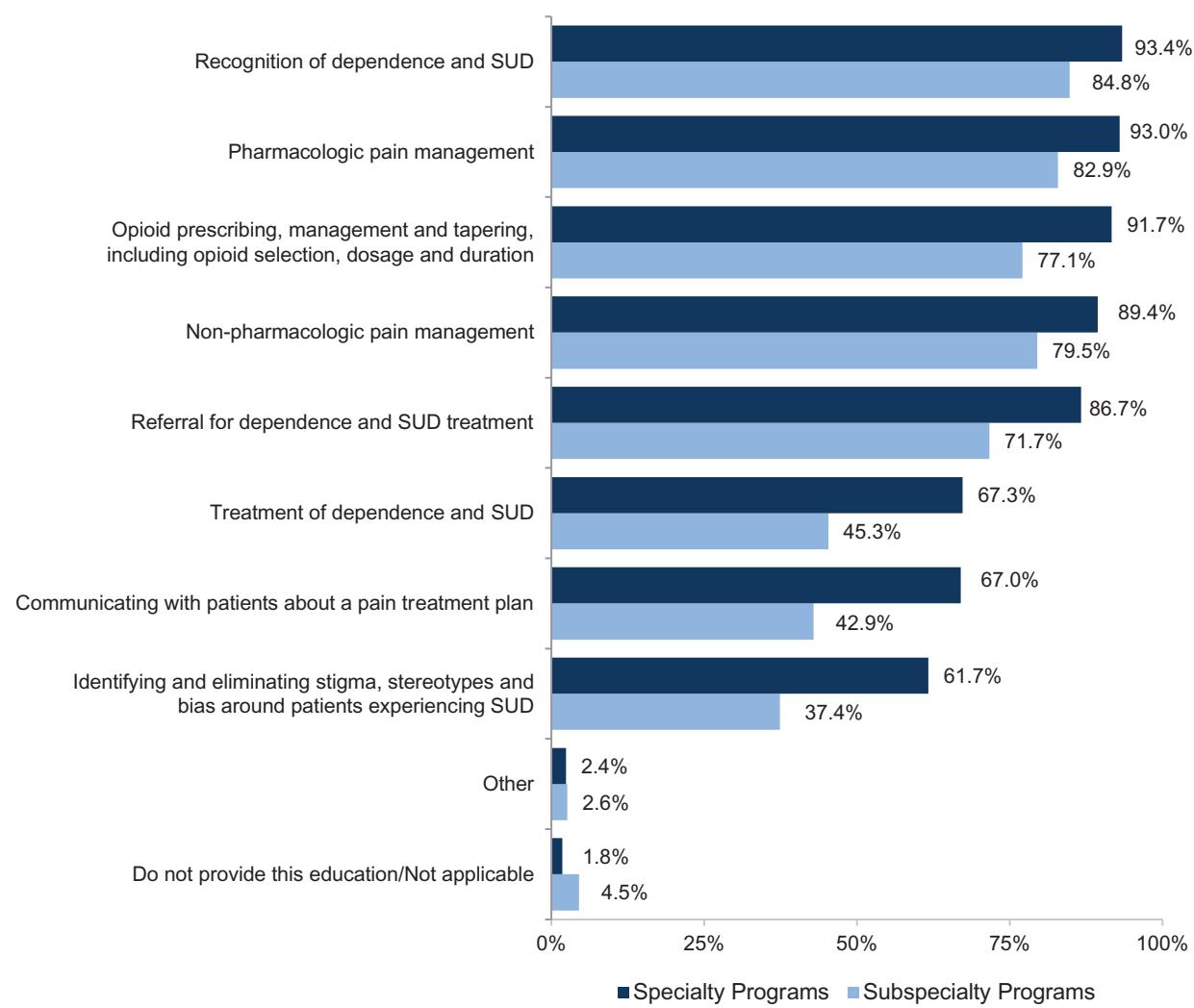
## Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education and by Specialty and Subspecialty

Specialty	Number of Programs	Non-Pharmacologic Pain Management		Pharmacologic Pain Management		Opioid Prescribing and Management, Including Opioid Selection, Dosage, and Duration		Recognition of Dependence and Addiction	
		#	%	#	%	#	%	#	%
- Pediatric nephrology	49	37	75.5%	42	85.7%	36	73.5%	37	75.5%
- Pediatric pulmonology	57	42	73.7%	41	71.9%	38	66.7%	51	89.5%
- Pediatric rheumatology	39	38	97.4%	36	92.3%	23	59.0%	27	69.2%
- Sports medicine	17	17	100.0%	17	100.0%	14	82.4%	14	82.4%
- Pediatric transplant hepatology	17	14	82.4%	16	94.1%	15	88.2%	15	88.2%
- Pediatric hospital medicine	80	80	100.0%	80	100.0%	78	97.5%	79	98.8%
Physical medicine and rehabilitation	112	112	100.0%	112	100.0%	111	99.1%	112	100.0%
- Brain injury medicine	29	29	100.0%	29	100.0%	29	100.0%	28	96.6%
- Neuromuscular medicine	1	1	100.0%	1	100.0%	1	100.0%	1	100.0%
- Spinal cord injury medicine	26	26	100.0%	26	100.0%	25	96.2%	25	96.2%
- Pediatric rehabilitation medicine	24	23	95.8%	24	100.0%	22	91.7%	20	83.3%
- Sports medicine	24	24	100.0%	23	95.8%	22	91.7%	22	91.7%
Plastic surgery	49	41	83.7%	47	95.9%	49	100.0%	45	91.8%
- Craniofacial surgery	9	7	77.8%	9	100.0%	9	100.0%	5	55.6%
- Hand surgery	19	14	73.7%	17	89.5%	18	94.7%	15	78.9%
Plastic Surgery - integrated	89	76	85.4%	87	97.8%	88	98.9%	83	93.3%
Public health and general preventive medicine	40	31	77.5%	30	75.0%	30	75.0%	40	100.0%
- Undersea and hyperbaric medicine	1	1	100.0%	0	0.0%	1	100.0%	1	100.0%
Aerospace medicine	5	4	80.0%	4	80.0%	3	60.0%	5	100.0%
Occupational and environmental medicine	22	21	95.5%	21	95.5%	20	90.9%	22	100.0%
Psychiatry	353	321	90.9%	324	91.8%	317	89.8%	353	100.0%
- Addiction medicine (multidisciplinary)	108	108	100.0%	108	100.0%	108	100.0%	108	100.0%
- Addiction psychiatry	54	53	98.1%	52	96.3%	51	94.4%	54	100.0%
- Child and adolescent psychiatry	158	122	77.2%	103	65.2%	81	51.3%	158	100.0%
- Forensic psychiatry	60	29	48.3%	33	55.0%	30	50.0%	56	93.3%
- Geriatric psychiatry	60	52	86.7%	49	81.7%	37	61.7%	60	100.0%
- Consultation-liaison psychiatry	69	66	95.7%	65	94.2%	56	81.2%	69	100.0%
Radiation oncology	87	77	88.5%	83	95.4%	85	97.7%	80	92.0%
Radiology-diagnostic	200	118	59.0%	142	71.0%	133	66.5%	152	76.0%
- Abdominal radiology	13	9	69.2%	10	76.9%	8	61.5%	9	69.2%
- Musculoskeletal radiology	23	14	60.9%	15	65.2%	14	60.9%	15	65.2%
- Neuroendovascular intervention	5	5	100.0%	5	100.0%	2	40.0%	2	40.0%
- Neuroradiology	93	46	49.5%	54	58.1%	52	55.9%	68	73.1%
- Nuclear radiology	19	9	47.4%	10	52.6%	9	47.4%	12	63.2%
- Pediatric radiology	47	19	40.4%	18	38.3%	21	44.7%	31	66.0%
Interventional radiology - independent	91	68	74.7%	83	91.2%	84	92.3%	78	85.7%
Interventional radiology - integrated	101	80	79.2%	90	89.1%	93	92.1%	87	86.1%
Surgery	365	340	93.2%	357	97.8%	361	98.9%	347	95.1%
- Complex general surgical oncology	35	31	88.6%	33	94.3%	34	97.1%	29	82.9%
- Hand surgery	2	2	100.0%	2	100.0%	2	100.0%	1	50.0%
- Pediatric surgery	52	47	90.4%	51	98.1%	52	100.0%	43	82.7%
- Surgical critical care	171	155	90.6%	167	97.7%	167	97.7%	159	93.0%
- Vascular surgery - independent	123	101	82.1%	115	93.5%	120	97.6%	111	90.2%
Vascular surgery - integrated	81	64	79.0%	78	96.3%	79	97.5%	75	92.6%
Thoracic surgery - independent	79	62	78.5%	72	91.1%	76	96.2%	71	89.9%
- Congenital cardiac surgery	17	12	70.6%	15	88.2%	16	94.1%	13	76.5%
Thoracic surgery - integrated	36	27	75.0%	32	88.9%	34	94.4%	31	86.1%
Urology	152	137	90.1%	147	96.7%	150	98.7%	141	92.8%
- Urogynecology and reconstructive pelvic surgery	16	16	100.0%	15	93.8%	16	100.0%	14	87.5%
- Pediatric urology	28	22	78.6%	25	89.3%	27	96.4%	23	82.1%
Transitional year	201	194	96.5%	199	99.0%	195	97.0%	197	98.0%
Internal medicine/Pediatrics	78	76	97.4%	77	98.7%	78	100.0%	77	98.7%
Health care administration, leadership, and management	9	3	33.3%	3	33.3%	2	22.2%	3	33.3%

Notes: Not all accredited programs completed these data. Total number of specialty programs = 6,029. Total number of subspecialty programs = 7,733. Programs can select more than one education type.

TABLE H.1 *Continued Extended*

Referral for Dependence and Addiction Treatment		Treatment of Dependence and Addiction		Other		Do Not Provide This Education/Not Applicable		Identifying and Eliminating Stigma, Stereotypes and Bias Around Patients with Substance-Use Disorder		Communicating with Patients About a Pain Treatment Plan	
						#	%	#	%	#	%
27	55.1%	17	34.7%	0	0.0%	0	0.0%	10	20.4%	14	28.6%
35	61.4%	14	24.6%	2	3.5%	1	1.8%	12	21.1%	12	21.1%
23	59.0%	10	25.6%	2	5.1%	1	2.6%	12	30.8%	21	53.8%
13	76.5%	7	41.2%	0	0.0%	0	0.0%	5	29.4%	9	52.9%
11	64.7%	8	47.1%	0	0.0%	0	0.0%	3	17.6%	4	23.5%
70	87.5%	48	60.0%	0	0.0%	0	0.0%	49	61.3%	58	72.5%
105	93.8%	90	80.4%	6	5.4%	0	0.0%	78	69.6%	98	87.5%
24	82.8%	15	51.7%	0	0.0%	0	0.0%	14	48.3%	19	65.5%
1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
22	84.6%	13	50.0%	0	0.0%	0	0.0%	13	50.0%	21	80.8%
17	70.8%	10	41.7%	0	0.0%	0	0.0%	7	29.2%	11	45.8%
17	70.8%	11	45.8%	0	0.0%	0	0.0%	6	25.0%	11	45.8%
38	77.6%	27	55.1%	1	2.0%	0	0.0%	21	42.9%	30	61.2%
4	44.4%	2	22.2%	0	0.0%	0	0.0%	1	11.1%	1	11.1%
12	63.2%	4	21.1%	1	5.3%	0	0.0%	3	15.8%	7	36.8%
70	78.7%	43	48.3%	0	0.0%	0	0.0%	29	32.6%	49	55.1%
36	90.0%	28	70.0%	1	2.5%	0	0.0%	27	67.5%	18	45.0%
1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
5	100.0%	4	80.0%	0	0.0%	0	0.0%	3	60.0%	4	80.0%
20	90.9%	11	50.0%	0	0.0%	0	0.0%	14	63.6%	13	59.1%
350	99.2%	352	99.7%	14	4.0%	0	0.0%	301	85.3%	230	65.2%
108	100.0%	108	100.0%	10	9.3%	0	0.0%	99	91.7%	93	86.1%
51	94.4%	54	100.0%	1	1.9%	0	0.0%	41	75.9%	32	59.3%
156	98.7%	147	93.0%	6	3.8%	0	0.0%	113	71.5%	58	36.7%
46	76.7%	41	68.3%	1	1.7%	1	1.7%	35	58.3%	16	26.7%
57	95.0%	58	96.7%	0	0.0%	0	0.0%	30	50.0%	25	41.7%
69	100.0%	66	95.7%	3	4.3%	0	0.0%	51	73.9%	40	58.0%
70	80.5%	33	37.9%	2	2.3%	0	0.0%	30	34.5%	56	64.4%
112	56.0%	70	35.0%	5	2.5%	16	8.0%	49	24.5%	50	25.0%
6	46.2%	4	30.8%	0	0.0%	1	7.7%	1	7.7%	1	7.7%
11	47.8%	7	30.4%	0	0.0%	2	8.7%	4	17.4%	4	17.4%
2	40.0%	2	40.0%	0	0.0%	0	0.0%	2	40.0%	2	40.0%
44	47.3%	26	28.0%	3	3.2%	16	17.2%	8	8.6%	13	14.0%
9	47.4%	7	36.8%	0	0.0%	5	26.3%	1	5.3%	3	15.8%
21	44.7%	11	23.4%	2	4.3%	10	21.3%	1	2.1%	4	8.5%
50	54.9%	26	28.6%	3	3.3%	0	0.0%	12	13.2%	30	33.0%
68	67.3%	40	39.6%	1	1.0%	1	1.0%	30	29.7%	43	42.6%
321	87.9%	186	51.0%	8	2.2%	0	0.0%	189	51.8%	249	68.2%
29	82.9%	14	40.0%	1	2.9%	0	0.0%	9	25.7%	16	45.7%
1	50.0%	0	0.0%	1	50.0%	0	0.0%	0	0.0%	1	50.0%
36	69.2%	23	44.2%	1	1.9%	0	0.0%	14	26.9%	24	46.2%
140	81.9%	104	60.8%	4	2.3%	0	0.0%	73	42.7%	99	57.9%
95	77.2%	53	43.1%	3	2.4%	0	0.0%	37	30.1%	42	34.1%
57	70.4%	32	39.5%	0	0.0%	0	0.0%	29	35.8%	38	46.9%
58	73.4%	43	54.4%	0	0.0%	0	0.0%	26	32.9%	39	49.4%
7	41.2%	8	47.1%	0	0.0%	0	0.0%	1	5.9%	4	23.5%
26	72.2%	18	50.0%	0	0.0%	0	0.0%	10	27.8%	19	52.8%
126	82.9%	75	49.3%	4	2.6%	0	0.0%	69	45.4%	87	57.2%
11	68.8%	3	18.8%	0	0.0%	0	0.0%	5	31.3%	5	31.3%
14	50.0%	9	32.1%	0	0.0%	0	0.0%	5	17.9%	8	28.6%
182	90.5%	154	76.6%	3	1.5%	0	0.0%	118	58.7%	130	64.7%
77	98.7%	70	89.7%	1	1.3%	0	0.0%	64	82.1%	66	84.6%
3	33.3%	2	22.2%	2	22.2%	3	33.3%	3	33.3%	2	22.2%

**FIGURE H.2****Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Substance Use Disorder (SUD) by Type of Education**

Notes: Not all accredited programs completed these data. Total number of specialty programs completing = 6,029. Total number of subspecialty programs completing = 7,733. Programs can select more than one education type.

# Appendix A

## **ACGME-Accredited Pipeline Specialties**

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Anesthesiology  
Dermatology  
Emergency medicine  
Family medicine  
Internal medicine  
Medical genetics and genomics  
Neurological surgery  
Neurology  
Child neurology  
Nuclear medicine  
Obstetrics and gynecology  
Ophthalmology  
Orthopaedic surgery  
Osteopathic neuromusculoskeletal medicine  
Otolaryngology – head and neck surgery  
Pathology – anatomic and clinical  
Pediatrics  
Physical medicine and rehabilitation  
Plastic surgery  
Plastic surgery – integrated  
Public health and general preventive medicine  
Aerospace medicine  
Occupational and environmental medicine  
Psychiatry  
Radiation oncology  
Radiology-diagnostic  
Interventional radiology – independent  
Interventional radiology – integrated  
Surgery  
Vascular surgery – integrated  
Thoracic surgery – integrated  
Urology  
Internal medicine/Pediatrics

# Appendix B

## Specialties and Subspecialties by Specialty Group

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### Hospital-based Specialties and Subspecialties

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#### Anesthesiology

- Adult cardiothoracic anesthesiology
- Critical care medicine
- Regional anesthesiology and acute pain medicine
- Pediatric cardiac anesthesiology
- Obstetric anesthesiology
- Pain medicine (multidisciplinary)
- Pediatric anesthesiology

#### Emergency medicine

- Emergency medical services
- Medical toxicology
- Pediatric emergency medicine
- Sports medicine
- Undersea and hyperbaric medicine

#### Medical genetics and genomics

- Medical biochemical genetics
- Molecular genetic pathology (multidisciplinary)

#### Clinical biochemical genetics

#### Laboratory genetics and genomics

#### Nuclear medicine

#### Pathology-anatomic and clinical

- Blood banking/transfusion medicine
- Clinical informatics
- Chemical pathology
- Cytopathology
- Forensic pathology
- Hematopathology
- Medical microbiology
- Neuropathology
- Pediatric pathology
- Selective pathology

#### Public health and general preventive medicine

#### Aerospace medicine

#### Occupational and environmental medicine

- Undersea and hyperbaric medicine

#### Radiation oncology

#### Radiology-diagnostic

- Abdominal radiology
- Neuroendovascular intervention
- Musculoskeletal radiology
- Neuroradiology
- Nuclear radiology
- Pediatric radiology

#### Interventional radiology – independent

#### Interventional radiology – integrated

#### Transitional year

### Medical Specialties and Subspecialties

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#### Allergy and immunology

#### Dermatology

- Dermatopathology (multidisciplinary)

- Micrographic surgery and dermatologic oncology
- Pediatric dermatology

#### Family medicine

- Clinical informatics
- Geriatric medicine
- Hospice and palliative medicine (multidisciplinary)
- Sports medicine

#### Internal medicine

- Adult congenital heart disease
- Advanced heart failure and transplant cardiology
- Cardiovascular disease
- Clinical cardiac electrophysiology
- Clinical informatics
- Critical care medicine
- Endocrinology, diabetes, and metabolism
- Gastroenterology
- Geriatric medicine
- Hematology and medical oncology
- Infectious disease
- Interventional cardiology
- Nephrology
- Medical oncology
- Pulmonary disease
- Pulmonary disease and critical care medicine
- Rheumatology
- Sleep medicine (multidisciplinary)
- Transplant hepatology

#### Neurology

- Clinical neurophysiology
- Epilepsy
- Neurocritical care (multidisciplinary)
- Neuroendovascular intervention
- Neurodevelopmental disabilities
- Neuromuscular medicine
- Vascular neurology

#### Child neurology

#### Osteopathic neuromusculoskeletal medicine

#### Pediatrics

- Adolescent medicine
- Child abuse pediatrics
- Clinical informatics
- Developmental-behavioral pediatrics
- Neonatal-perinatal medicine
- Pediatric cardiology
- Pediatric critical care medicine
- Pediatric emergency medicine
- Pediatric endocrinology
- Pediatric gastroenterology
- Pediatric hematology/oncology
- Pediatric infectious diseases
- Pediatric nephrology
- Pediatric pulmonology
- Pediatric rheumatology
- Sports medicine
- Pediatric transplant hepatology
- Pediatric hospital medicine

Physical medicine and rehabilitation

- Brain injury medicine
- Neuromuscular medicine
- Spinal cord injury medicine
- Pediatric rehabilitation medicine
- Sports medicine

Psychiatry

- Addiction medicine (multidisciplinary)
- Addiction psychiatry
- Child and adolescent psychiatry
- Forensic psychiatry
- Geriatric psychiatry
- Consultation-liaison psychiatry

Internal medicine/Pediatrics

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Surgical Specialties and Subspecialties

Colon and rectal surgery

Neurological surgery

- Neuroendovascular intervention

Obstetrics and gynecology

- Female pelvic medicine and reconstructive surgery
- Gynecologic oncology
- Maternal-fetal medicine
- Reproductive endocrinology and infertility
- Complex family planning

Ophthalmology

- Ophthalmic plastic and reconstructive surgery

Orthopaedic surgery

- Adult reconstructive orthopaedics
- Foot and ankle orthopaedics
- Hand surgery
- Musculoskeletal oncology
- Orthopaedic sports medicine
- Orthopaedic surgery of the spine
- Orthopaedic trauma
- Pediatric orthopaedics

Otolaryngology – head and neck surgery

- Neurotology
- Pediatric otolaryngology

Plastic surgery

Plastic surgery – integrated

- Craniofacial surgery

- Hand surgery

Surgery

- Complex general surgical oncology
- Hand surgery
- Pediatric surgery
- Surgical critical care
- Vascular surgery

Vascular surgery – integrated

Thoracic surgery

- Congenital cardiac surgery

Thoracic surgery – integrated

Urology

- Female pelvic medicine and reconstructive surgery
- Pediatric urology

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