ACCREDITATION COUNCIL FOR GRADUATE MEDICAL EDUCATION

DATA RESOURCE BOOK

ACADEMIC YEAR 2020-2021



Data Resource Book Academic Year 2020-2021

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



Accreditation Council for Graduate Medical Education

401 North Michigan Avenue

Suite 2000

Chicago, Illinois 60611

Telephone: 312.755.5000

www.acgme.org

©2021 Accreditation Council for Graduate Medical Education (ACGME). No part of this work may be reproduced or distributed in any form or by any means without the ACGME's prior written approval.

These data are for accreditation purposes.

Send inquiries to: databook@acgme.org.

ISSN 2473-8662 (print)

ISSN 2473-8670 (online)

Table of Contents

| Introduction | 7 |
|---|----|
| Overview | 7 |
| Accreditation Data System | 7 |
| Academic Year Reporting | 7 |
| Definitions | 9 |
| A. Program Accreditation | 11 |
| A.1 Accreditation Statuses of Currently Accredited Programs | 13 |
| A.2 Number of Accredited Programs by Academic Year, 2011-2012 to 2020-2021 | 13 |
| A.3 Accreditation Statuses of Currently Accredited Programs by Specialty and Subspecialty | 14 |
| A.4 Number of Programs by Specialty and Subspecialty and Academic Year, 2016-2017 to 2020-2021 | 17 |
| A.5 Number of Pipeline and Continuing GME Programs by Academic Year, 2011-2012 to 2020-2021 | 20 |
| A.6 Number of Programs by Specialty Group and Academic Year, 2011-2012 to 2020-2021 | 20 |
| A.7 Number of Newly Accredited Programs by Specialty Group | 21 |
| A.8 Number of Newly Accredited Programs by Academic Year, 2011-2012 to 2020-2021 | 21 |
| A.9 Number of Newly Accredited Programs during the Academic Year by Specialty and Subspecialty | 22 |
| A.10 Number of Programs with a Withdrawn Accreditation Status during the Academic Year by Specialty and Subspecialty | 25 |
| A.11 Total Number of Programs, Years of Accredited Prior Training Required, and Length of Accredited Education and Training by Specialty and Subspecialty | 28 |
| A.12 Number of Programs with Osteopathic Recognition by Specialty and Subspecialty | 31 |
| B. Program Characteristics | 33 |
| B.1 Geographic Distribution of Programs | 34 |
| B.2 Number of Programs and Program Concentration per 100,000 Population by State | 35 |
| B.3 Number of Specialty Programs and Specialty Program Concentration per 100,000 Population by State | 36 |
| B.4 Number of Subspecialty Programs and Subspecialty Program Concentration per 100,000 Population by | |
| State | 37 |
| B.5 Number of Pipeline Programs and Pipeline Program Concentration per 100,000 Population by State | 38 |
| B.6 Hospital-Based Specialty Programs by Specialty and State | 39 |
| B.7 Medical Specialty Programs by Specialty and State | 40 |
| B.8 Surgical Specialty Programs by Specialty and State | 41 |
| B.9 Percentage of Programs and Residents in Each Specialty | 42 |
| B.10 Mean Number of Residents per Program by Specialty | 43 |
| B.11 Mean Number of Residents per Program by Academic Year, 2011-2012 to 2020-2021 | 44 |
| B.12 Percent of Programs and Residents in Specialties by Specialty Group | 45 |
| B.13 Percent of Programs and Residents in Subspecialties by Specialty Group | 45 |

| C. Resident Characteristics | 47 |
|---|----|
| C.1 Number of Active Residents by Status | 49 |
| C.2 Number of Active Residents by Academic Year, 2011-2012 to 2020-2021 | 49 |
| C.3 Number of Active Residents by Specialty Group | 50 |
| C.4 Number of Active Residents by Specialty Group and Academic Year, 2011-2012 to 2020-2021 | 50 |
| C.5 Number of Active Residents by Specialty and Subspecialty, Position Type, and Resident Year | 51 |
| C.6 Number of Active Residents by Specialty and Subspecialty and Academic Year, 2016-2017 to 2020-2021 | 54 |
| C.7 Number of Active Part-Time Residents by Specialty and Subspecialty | 57 |
| C.8 Geographic Distribution of Active Residents | 60 |
| C.9 Number of Active Residents and Active Resident Concentration per 100,000 Population by State | 61 |
| C.10 Number of Active Specialty Residents and Active Specialty Resident Concentration per 100,000 Population by State | 62 |
| C.11 Number of Active Subspecialty Residents and Active Subspecialty Resident Concentration per 100,000 Population by State | 63 |
| C.12 Number of Active Pipeline Residents and Active Pipeline Resident Concentration per 100,000 Population by State | 64 |
| C.13 Number of Active Residents by Medical School Type | 65 |
| C.14 Number of Active Residents by Medical School Type and Academic Year, 2011-2012 to 2020-2021 | 65 |
| C.15 Number of Active Residents by Specialty and Subspecialty and Medical School Type | 66 |
| C.16 Specialties Organized by Largest Percentages of Active Residents who are International Medical Graduates. | 69 |
| C.17 Number of Active Residents by Medical School Type and State | 70 |
| C.18 Mean Age of Year 1 Residents by Specialty and Subspecialty and Medical School Type | 71 |
| C.19 Number of Active Residents by Specialty Group and Gender | 74 |
| C.20 Percent of Active Residents by Gender and Academic Year, 2011-2012 to 2020-2021 | 75 |
| C.21 Number of Active Residents by Specialty and Subspecialty and Gender | 76 |
| C.22 Specialties Organized by Largest Percentages of Active Female Residents | 79 |
| C.23 Number of Active Residents by Specialty and Subspecialty and Race/Ethnicity | 80 |
| C.24 Number of Active Female Residents by Specialty and Subspecialty and Race/Ethnicity | 83 |
| C.25 Number of Active Male Residents by Specialty and Subspecialty and Race/Ethnicity | 86 |
| C.26 Number of Residents Entering Pipeline and Continuing GME Programs by Academic Year, 2011-2012 to 2020-2021 | 89 |
| C.27 Number of Residents Entering the Pipeline by Medical School Type and Academic Year, 2011-2012 to 2020-2021 | 89 |
| C.28 Number of Residents Entering the GME Pipeline by Specialty and Medical School Type | 90 |
| C.29 Hospital-Based Specialty Residents Entering the GME Pipeline by Specialty and State | 91 |
| C.30 Medical Specialty Residents Entering the GME Pipeline by Specialty and State | 92 |
| C.31 Surgical Specialty Residents Entering the GME Pipeline by Specialty and State | 93 |
| C.32 Number of Residents Entering GME and the GME Pipeline by Specialty | 94 |
| C.33 Number of Residents Entering GME and the GME Pipeline by State | 95 |
| C.34 Number of Residents who are International Medical School Graduates Entering the GME Pipeline by Region, 2020-2021. | 96 |

| D. Graduating Residents and Residents Leaving Prior to Completion | 97 |
|--|-----|
| D.1 Number of Graduating Residents by Specialty Group, 2019-2020 AY | 98 |
| D.2 Number of Graduating Residents by Academic Year, 2010-2011 to 2019-2020. | 98 |
| D.3 Number of Residents Completing Preliminary Training and Transitional Year by Specialty, 2019-2020 AY | 99 |
| D.4 Number of Residents Completing Preliminary Training and Transitional Year by Academic Year, 2010-2011 to 2019-2020 | 99 |
| D.5 Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2019-2020 AY | 100 |
| D.6 Number of Graduating Residents by Specialty and Subspecialty and Medical School Type, 2019-2020 AY | 103 |
| D.7 Number of Graduating Residents and Graduate Concentration per 100,000 Population by State, 2019-2020 AY | 106 |
| D.8 Number of Specialty Graduates and Specialty Graduate Concentration per 100,000 Population by State, 2019-2020 AY. | 107 |
| D.9 Number of Subspecialty Graduates and Subspecialty Graduate Concentration per 100,000 Population by State, 2019-2020 AY. | 108 |
| D.10 Number of Pipeline Graduates and Pipeline Graduate Concentration per 100,000 Population by State, 2019-2020 AY. | 109 |
| D.11 Number of Graduating Residents by State and Medical School Type, 2019-2020 AY | 110 |
| D.12 Number of Residents Leaving Prior to Completion of a Program by Status, 2019-2020 AY | 111 |
| D.13 Number of Residents Leaving Prior to Completion of a Program by Specialty and Subspecialty and Status, 2019-2020 AY | 112 |
| D.14 Number of Transferring Residents by Specialty and Resident Year, 2019-2020 AY | 115 |
| D.15 Number of Pipeline Graduates who Subspecialize, 2019-2020 AY | 116 |
| E. Sponsoring Institutions | 117 |
| E.1 Accreditation Statuses of Currently Accredited Sponsoring Institutions | 118 |
| E.2 Number of Sponsoring Institutions by Academic Year, 2011-2012 to 2020-2021 | 118 |
| E.3 Number of Sponsoring Institutions by Size of Sponsor | 119 |
| E.4 Number of Sponsoring Institutions and Sponsoring Institution Concentration per 100,000 Population by | |
| State | 120 |
| E.5 Number of Multiple-Program Sponsoring Institutions and Multiple-Program Sponsoring Institution Concentration per 100,000 Population by State | 121 |
| E.6 Number of Single-Program Sponsoring Institutions and Single-Program Sponsoring Institution Concentration per 100,000 Population by State | 122 |
| E.7 Number of No-Program Sponsoring Institutions and No-Program Sponsoring Institution Concentration per 100,000 Population by State | 123 |
| E.8 Number of Sponsoring Institutions by Institution Type | 124 |
| E.9 Number of Sponsoring Institutions with DIO Changes | 125 |
| E.10 Percent of Sponsoring Institutions with at Least One DIO Change by Academic Year, 2011-2012 to 2020-2021 | 125 |

| F. Participating Sites | 127 |
|--|-----|
| F.1 Number of Unique Participating Sites Where Residents Rotate by Institution Type | 128 |
| F.2 Number of Unique Participating Sites Where Residents Rotate by Academic Year, 2011-2012 to 2020-2021 | 128 |
| F.3 Number of Participating Sites where Residents Rotate by Institution Type Groups (Largest Groups Only) and Academic Year, 2011-2012 to 2020-2021 | 129 |
| F.4 Number of Participating Sites where Residents Rotate by Institution Type Groups (Smallest Groups Only) and Academic Year, 2011-2012 to 2020-2021 | 129 |
| F.5 Mean Number of Participating Sites per Program where Residents Rotate by Specialty and Subspecialty | 130 |
| F.6 Total Number of Participating Sites and Number of Sponsoring Institutions where Residents Rotate by Specialty and Subspecialty | 133 |
| G. Program Directors and Faculty | 137 |
| G.1 Number of Programs with Program Director Changes during the Academic Year | 138 |
| G.2 Percent of Programs with at Least One Program Director Change by Academic Year, 2011-2012 to 2020-2021 | 138 |
| G.3 Number of Programs with New Program Directors and Number of Distinct Program Director Changes during the Academic Year by Specialty and Subspecialty | 139 |
| G.4 Mean Length in Years of Past Program Director Tenure by Specialty | 142 |
| G.5 Mean Length in Years New Program Directors Have Taught in Their Specialty by Specialty Group | 143 |
| G.6 Mean Length in Years Continuing Program Directors Have Taught in Their Specialty by Specialty Group | 143 |
| G.7 Mean Number of Hours per Week Spent by Program Directors in Key Areas by Specialty | 144 |
| G.8 Number of Physician Faculty Members and Mean Number of Physician Faculty Members per Program by Specialty and Subspecialty | 145 |
| G.9 Total Number of Core Faculty Members and Core Faculty Members per Program by Specialty | 148 |
| G.10 Specialties Organized by Largest Mean Number of Core Faculty Members per Program | 149 |
| G.11 Mean Number of Hours per Week Core Faculty Members Spent in Key Areas by Specialty | 150 |
| H. Program Activities | 151 |
| H.1 Use of Ambulatory and/or Non-Hospital Settings | 152 |
| H.2 Percentage of Programs Using Ambulatory and/or Non-Hospital Settings in the Education of Residents by Type of Setting | 152 |
| H.3 Use of Ambulatory and/or Non-Hospital Settings by Specialty and Subspecialty | 153 |
| H.4 Use of Ambulatory and/or Non-Hospital Settings by Type of Setting (Most Common Selections) by Pipeline Specialty | 156 |
| H.5 Use of Ambulatory and/or Non-Hospital Settings by Type of Setting (Least Common Selections) by Pipeline Specialty | 157 |
| H.6 Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education and by Specialty and Subspecialty | 158 |
| H.7 Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education | 164 |
| Appendices | 165 |
| Appendix A Pipeline Specialties | 165 |
| Appendix B Specialties and Subspecialties by Specialty Group | 166 |
| Appendix C Institution Type Groups | 169 |

Introduction

Overview

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.

Accreditation Data System

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

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 2019-2020 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/.

Introduction

Definitions

The definitions listed below clarify use of terms in this Data Resource Book only. These reflect the 2020-2021 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, other than program directors, who devote at least 15 hours per week to resident education and administration. Core faculty members should also evaluate the competency domains, work closely with and support the program director, assist in developing and implementing evaluation systems, and teach and advise 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 programs.

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 GME program.

Program Year: Refers to the current year of education (of an individual resident) within a specific program; this designation may or may not correspond to a resident'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 three categories based on patient care focus: surgical; medical; and hospital-based. 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, 2021 will be excluded from the count of accredited programs for Academic Year 2020-2021 in this edition of the Data Resource Book.

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 2011-2012 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 12,420 total accredited programs, 10,327 (4,541 specialty programs and 5,786 subspecialty programs) had a status of Continued Accreditation, accounting for 83.1% of programs. Only 154 programs (1.2%) had a status of Continued Accreditation with Warning, and an even smaller number, 17 (0.1%), had a status of Probationary Accreditation. Remaining programs had a status of either Initial Accreditation (15.2%) or Withdrawal of Accreditation (0.3%). Among specialty programs, the specialties with the highest percentage of programs with a Continued Accreditation with Warning status are:

- Colon and rectal surgery (13.6%)
- Osteopathic neuromusculoskeletal medicine (10.7%)
- Radiation oncology (7.7%)
- Thoracic surgery integrated (6.1%)

Anesthesiology and pediatrics had two programs each issued Probationary Accreditation. Specialties and subspecialties with one program on probation include dermatology, emergency medicine, family emergency, internal medicine, neurological surgery, child neurology, obstetrics and gynecology, ophthalmology, orthopaedic surgery, plastic surgery, psychiatry, and surgery.

Trends in Accredited Programs

Since the 2016-2017 academic year, there has been a 16.4% 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 (170 121 previously AOA-approved)
- Internal medicine (117 93 previously AOA-approved)
- Surgery (66 48 previously AOA-approved)
- Emergency medicine (64 48 previously AOA-approved)

Newly Accredited Programs

A total of 499 programs were newly accredited during the 2020-2021 academic year. Of the newly-accredited programs, 241 (48.3%) are in medical specialties and subspecialties, 159 (31.9%) are in hospital-based specialties and subspecialties, and 99 (19.8%) are in surgical specialties and subspecialties. The specialties with the highest number of newly accredited programs are:

- Internal medicine (24)
- Family medicine (21)
- Psychiatry (18)
- Surgery (16)

Interventional radiology – independent, complex family planning, pediatric hospital medicine, hospice and palliative medicine (multidisciplinary), and critical care medicine had the highest number of new programs among all subspecialties, with 93, 26, 21, 13, and 10 programs, respectively, accounting for 32.7% of all newly accredited programs added this year. There are nine subspecialties newly accredited by the ACGME in the past five years. New programs in these nine subspecialties account for 31.0% of all new subspecialty programs.

Withdrawn Programs

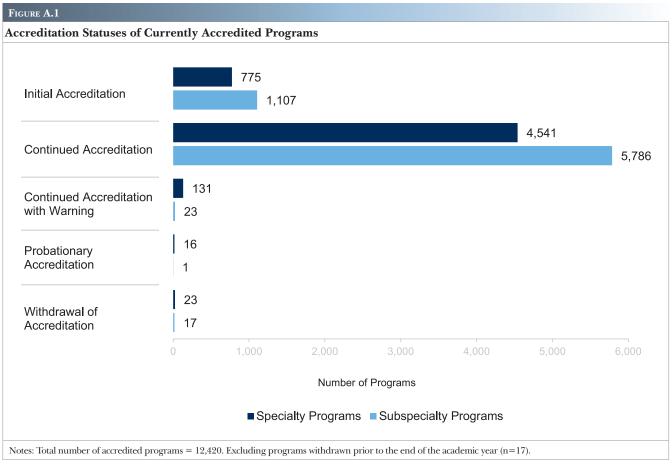
Withdrawn programs are reported in three categories: those withdrawn prior to the end of the 2020-2021 academic year (which are not included in the population of accredited programs); those withdrawn at the end of the 2020-2021 academic year; and those with a future-effective withdrawal date. At the time of this report, family medicine and surgery had three withdrawn programs; internal medicine, pediatrics, and psychiatry had two withdrawn programs; followed by colon and rectal surgery, dermatology, medical genetics and genomics, neurology, obstetrics and gynecology, ophthalmology, osteopathic neuromusculoskeletal medicine, plastic surgery, plastic surgery - integrated, and radiation oncology-each with one withdrawn program during the academic year. The subspecialty of micrographic surgery and dermatologic oncology had four withdrawn programs during the academic year.

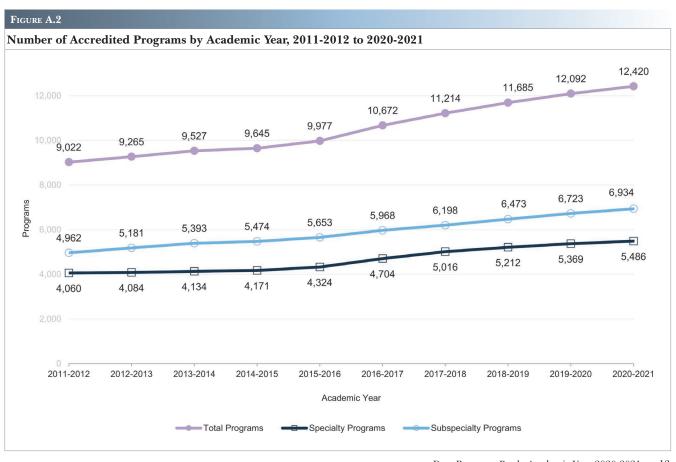
Length of Accredited Education and Training

The majority of core programs take three or four years to complete. Neurological surgery has the longest educational program length among specialty programs at seven years. Among subspecialty programs, 51.8% 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

The 2020-2021 academic year is the fifth year that the ACGME has recognized education and training in Osteopathic Principles and Practice in ACGME-accredited programs. Of the 259 programs with Osteopathic Recognition, 156 (60.2%) are family medicine programs and 33 (12.7%) are internal medicine programs. A





| 4.0 | | | 0 |
|-----|--|--|---|
| П | | | |
| | | | |

| | | Accreditation Status | | | | | | | | | |
|---|----------|----------------------|------------------|--------|-------------------|------|------------------------------|-------|---------------------|----|----------------------|
| | Total | | tial litation | | inued litation | Cont | inued ditation Varning | Proba | tionary ditation | | rawal of ditation |
| Specialty | Programs | # | % | # | % | # | % | # | % | # | % |
| OVERALL | 12,420 | 1,882 | 15.2% | 10,327 | 83.1% | 154 | 1.2% | 17 | 0.1% | 40 | 0.3% |
| TOTAL PIPELINE | 5,187 | 807 | 15.6% | 4,221 | 81.4% | 120 | 2.3% | 16 | 0.3% | 23 | 0.4% |
| Allergy and immunology | 82 | 3 | 3.7% | 79 | 96.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Anesthesiology | 161 | 16 | 9.9% | 139 | 86.3% | 4 | 2.5% | 2 | 1.2% | 0 | 0.0% |
| - Adult cardiothoracic anesthesiology | 73 | 6 | 8.2% | 67 | 91.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 64 | 4 | 6.3% | 59 | 92.2% | 0 | 0.0% | 0 | 0.0% | 1 | 1.6% |
| - Regional anesthesiology and acute pain medicine | 38 | 19 | 50.0% | 19 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Obstetric anesthesiology | 41 | 8 | 19.5% | 33 | 80.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pain medicine (multidisciplinary) | 111 | 9 | 8.1% | 101 | 91.0% | 1 | 0.9% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric anesthesiology | 60 | 4 | 6.7% | 56 | 93.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Colon and rectal surgery | 66 | 7 | 10.6% | 50 | 75.8% | 9 | 13.6% | 0 | 0.0% | 0 | 0.0% |
| Dermatology | 144 | 4 | 2.8% | 131 | 91.0% | 7 | 4.9% | 1 | 0.7% | 1 | 0.0% |
| - Dermatopathology (multidisciplinary) | 58 | 8 | 13.8% | 49 | 84.5% | 0 | 0.0% | 0 | 0.0% | 1 | 1.7% |
| Micrographic surgery and dermatologic oncology | 78 | 11 | 14.1% | 61 | 78.2% | 3 | 3.8% | 0 | 0.0% | 3 | 3.8% |
| Emergency medicine | 276 | 69 | 25.0% | 201 | 72.8% | 4 | 1.4% | 1 | 0.0% | 1 | 0.4% |
| - Clinical informatics | 5 | 1 | 20.0% | 4 | 80.0% | 0 | 0.0% | 0 | 0.4% | 0 | 0.4% |
| | 75 | 22 | 29.3% | 53 | 70.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Emergency medical services | 27 | 22 | | 25 | 92.6% | | | 0 | 0.0% | 0 | _ |
| - Medical toxicology | 27 | 2 | 7.4% | 23 | | 0 2 | 0.0% | 0 | | | 0.0% |
| - Pediatric emergency medicine | | | 7.4% | | 85.2% | | 7.4% | | 0.0% | 0 | 0.0% |
| - Sports medicine | 9 | 2 | 22.2% | 7 | 77.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 8 | 1 | 12.5% | 7 | 87.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Family medicine | 710 | 117 | 16.5% | 579 | 81.5% | 8 | 1.1% | 1 | 0.1% | 5 | 0.7% |
| - Clinical informatics | 6 | 3 | 50.0% | 3 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 49 | 9 | 18.4% | 38 | 77.6% | 0 | 0.0% | 0 | 0.0% | 2 | 4.1% |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 46 | 25.6% | 134 | 74.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 156 | 25 | 16.0% | 131 | 84.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine | 586 | 87 | 14.8% | 488 | 83.3% | 8 | 1.4% | 1 | 0.2% | 2 | 0.3% |
| - Adult congenital heart disease | 24 | 11 | 45.8% | 13 | 54.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Advanced heart failure and transplant cardiology | 82 | 13 | 15.9% | 69 | 84.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Cardiovascular disease | 255 | 28 | 11.0% | 226 | 88.6% | 0 | 0.0% | 0 | 0.0% | 1 | 0.4% |
| - Clinical cardiac electrophysiology | 112 | 6 | 5.4% | 106 | 94.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 19 | 8 | 42.1% | 11 | 57.9% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 55 | 21 | 38.2% | 34 | 61.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Endocrinology, diabetes, and metabolism | 153 | 13 | 8.5% | 140 | 91.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Gastroenterology | 211 | 29 | 13.7% | 181 | 85.8% | 1 | 0.5% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 114 | 16 | 14.0% | 97 | 85.1% | 0 | 0.0% | 0 | 0.0% | 1 | 0.9% |
| - Hematology | 2 | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hematology and medical oncology | 172 | 26 | 15.1% | 145 | 84.3% | 1 | 0.6% | 0 | 0.0% | 0 | 0.0% |
| - Infectious disease | 158 | 14 | 8.9% | 144 | 91.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Interventional cardiology | 170 | 20 | 11.8% | 150 | 88.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Nephrology | 152 | 8 | 5.3% | 144 | 94.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical oncology | 6 | 0 | 0.0% | 5 | 83.3% | 0 | 0.0% | 0 | 0.0% | 1 | 16.7% |
| - Pulmonary disease | 20 | 5 | 25.0% | 14 | 70.0% | 0 | 0.0% | 0 | 0.0% | 1 | 5.0% |
| - Pulmonary disease and critical care medicine | 188 | 30 | 16.0% | 158 | 84.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Rheumatology | 125 | 8 | 6.4% | 116 | 92.8% | 1 | 0.8% | 0 | 0.0% | 0 | 0.0% |
| - Sleep medicine (multidisciplinary) | 89 | 9 | 10.1% | 80 | 89.9% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Transplant hepatology | 59 | 9 | 15.3% | 50 | 84.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Medical genetics and genomics | 46 | 2 | 4.3% | 43 | 93.5% | 0 | 0.0% | 0 | 0.0% | 1 | 2.2% |
| - Medical biochemical genetics | 20 | 5 | 25.0% | 15 | 75.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Molecular genetic pathology (multidisciplinary) | 42 | 4 | 9.5% | 38 | 90.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Neurological surgery | 116 | 9 | 7.8% | 105 | 90.5% | 0 | 0.0% | 1 | 0.9% | 1 | 0.9% |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| (D | Λ | 0 | 0 | 7 |
|-------|---|---|---|---|
| TABLE | | | | |
| | | | | |

| Table A.3 Continued | | | | | | | | | | | |
|---|------------|--------|-------------------|----------|-------------------|-----------|------------------------------|---|---------------------|---|----------------------|
| Accreditation Statuses of Currently Acc | redited Pr | ograms | by Spe | cialty a | and Sub | special | lty | | | | |
| | | | | | A | Accredita | tion Statu | s | | | |
| | Total | | itial ditation | | inued ditation | Accred | inued litation Varning | | tionary ditation | | rawal of ditation |
| Specialty | Programs | # | % | # | % | # | % | # | % | # | % |
| Neurology | 170 | 21 | 12.4% | 138 | 81.2% | 10 | 5.9% | 0 | 0.0% | 1 | 0.6% |
| - Brain injury medicine | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical neurophysiology | 93 | 7 | 7.5% | 85 | 91.4% | 1 | 1.1% | 0 | 0.0% | 0 | 0.0% |
| - Epilepsy | 85 | 20 | 23.5% | 64 | 75.3% | 1 | 1.2% | 0 | 0.0% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 2 | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neurodevelopmental disabilities | 8 | 0 | 0.0% | 7 | 87.5% | 1 | 12.5% | 0 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 53 | 6 | 11.3% | 47 | 88.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Vascular neurology | 109 | 18 | 16.5% | 91 | 83.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Child neurology | 77 | 4 | 5.2% | 72 | 93.5% | 0 | 0.0% | 1 | 1.3% | 0 | 0.0% |
| Nuclear medicine | 37 | 0 | 0.0% | 36 | 97.3% | 1 | 2.7% | 0 | 0.0% | 0 | 0.0% |
| Obstetrics and gynecology | 294 | 27 | 9.2% | 252 | 85.7% | 13 | 4.4% | 1 | 0.3% | 1 | 0.3% |
| - Female pelvic medicine and reconstructive surgery | 54 | 4 | 7.4% | 50 | 92.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Gynecologic oncology | 63 | 13 | 20.6% | 50 | 79.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Maternal-fetal medicine | 100 | 15 | 15.0% | 85 | 85.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Reproductive endocrinology and infertility | 49 | 5 | 10.2% | 42 | 85.7% | 0 | 0.0% | 0 | 0.0% | 2 | 4.1% |
| - Complex family planning | 26 | 26 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Ophthalmology | 125 | 9 | 7.2% | 111 | 88.8% | 3 | 2.4% | 1 | 0.8% | 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 | 201 | 37 | 18.4% | 154 | 76.6% | 9 | 4.5% | 1 | 0.5% | 0 | 0.0% |
| - Adult reconstructive orthopaedics | 25 | 4 | 16.0% | 21 | 84.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Foot and ankle orthopaedics | 7 | 1 | 14.3% | 6 | 85.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 73 | 7 | 9.6% | 61 | 83.6% | 5 | 6.8% | 0 | 0.0% | 0 | 0.0% |
| - Musculoskeletal oncology | 12 | 1 | 8.3% | 10 | 83.3% | 1 | 8.3% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic sports medicine | 93 | 5 | 5.4% | 87 | 93.5% | 1 | 1.1% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic surgery of the spine | 16 | 2 | 12.5% | 13 | 81.3% | 0 | 0.0% | 0 | 0.0% | 1 | 6.3% |
| - Orthopaedic trauma | 12 | 3 | 25.0% | 9 | 75.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric orthopaedics | 25 | 2 | 8.0% | 23 | 92.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 28 | 19 | 67.9% | 5 | 17.9% | 3 | 10.7% | 0 | 0.0% | 1 | 3.6% |
| Otolaryngology - head and neck surgery | 125 | 18 | 14.4% | 107 | 85.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neurotology | 26 | 4 | 15.4% | 22 | 84.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric otolaryngology | 31 | 9 | 29.0% | 22 | 71.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Pathology-anatomic and clinical | 144 | 3 | 2.1% | 140 | 97.2% | 1 | 0.7% | 0 | 0.0% | 0 | 0.0% |
| - Blood banking/transfusion medicine | 52 | 2 | 3.8% | 50 | 96.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 11 | 5 | 45.5% | 6 | 54.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Chemical pathology | 4 | 1 | 25.0% | 3 | 75.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Cytopathology | 93 | 3 | 3.2% | 89 | 95.7% | 0 | 0.0% | 0 | 0.0% | 1 | 1.1% |
| - Forensic pathology | 45 | 7 | 15.6% | 37 | 82.2% | 0 | 0.0% | 0 | 0.0% | 1 | 2.2% |
| - Hematopathology | 86 | 2 | 2.3% | 84 | 97.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical microbiology | 15 | 0 | 0.0% | 15 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neuropathology | 38 | 5 | 13.2% | 33 | 86.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric pathology | 28 | 1 | 3.6% | 27 | 96.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Selective pathology | 109 | 28 | 25.7% | 81 | 74.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Pediatrics | 210 | 4 | 1.9% | 202 | 96.2% | 1 | 0.5% | 2 | 1.0% | 1 | 0.5% |
| - Adolescent medicine | 32 | 5 | 15.6% | 26 | 81.3% | 1 | 3.1% | 0 | 0.0% | 0 | 0.0% |
| - Child abuse pediatrics | 31 | 1 | 3.2% | 30 | 96.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 8 | 2 | 25.0% | 6 | 75.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Developmental-behavioral pediatrics | 44 | 5 | 11.4% | 39 | 88.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neonatal-perinatal medicine | 107 | 9 | 8.4% | 96 | 89.7% | 2 | 1.9% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric cardiology | 64 | 5 | 7.8% | 59 | 92.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric critical care medicine | 75 | 9 | 12.0% | 66 | 88.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric emergency medicine | 55 | 2 | 3.6% | 53 | 96.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric emergency medicine - Pediatric endocrinology | 72 | 3 | 4.2% | 69 | 95.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric endocrinology - Pediatric gastroenterology | 67 | 6 | | 61 | | 0 | | 0 | | 0 | |
| - remaine gastroenterology | 07 | U | 9.0% | 01 | 91.0% | U | 0.0% | | 0.0% | U | 0.0% |

Table A.3 Continued

| | | | | | A | Accredita | tion Status | 6 | | | |
|---|----------|--------------------------|--------|-----|-------------------|-----------|------------------------------|---|---------------------|---|----------------------|
| | Total | Initial Accreditation | | | inued litation | Accrec | inued litation ⁄arning | | tionary ditation | | rawal of ditation |
| Specialty | Programs | # | % | # | % | # | % | # | % | # | % |
| - Pediatric hematology/oncology | 76 | 3 | 3.9% | 72 | 94.7% | 0 | 0.0% | 1 | 1.3% | 0 | 0.0% |
| - Pediatric infectious diseases | 64 | 3 | 4.7% | 61 | 95.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric nephrology | 47 | 3 | 6.4% | 44 | 93.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric pulmonology | 56 | 3 | 5.4% | 53 | 94.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric rheumatology | 37 | 2 | 5.4% | 35 | 94.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 17 | 2 | 11.8% | 15 | 88.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric transplant hepatology | 17 | 3 | 17.6% | 14 | 82.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric hospital medicine | 54 | 54 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Physical medicine and rehabilitation | 98 | 11 | 11.2% | 86 | 87.8% | 1 | 1.0% | 0 | 0.0% | 0 | 0.0% |
| - Brain injury medicine | 25 | 11 | 44.0% | 14 | 56.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Spinal cord injury medicine | 24 | 5 | 20.8% | 19 | 79.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric rehabilitation medicine | 22 | 3 | 13.6% | 19 | 86.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 21 | 2 | 9.5% | 19 | 90.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Plastic surgery | 52 | 4 | 7.7% | 44 | 84.6% | 2 | 3.8% | 1 | 1.9% | 1 | 1.9% |
| Plastic surgery - integrated | 86 | 10 | 11.6% | 72 | 83.7% | 2 | 2.3% | 0 | 0.0% | 2 | 2.3% |
| - Craniofacial surgery | 8 | 0 | 0.0% | 8 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 17 | 2 | 11.8% | 15 | 88.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Preventive medicine | 72 | 4 | 5.6% | 68 | 94.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical toxicology | 1 | 0 | 0.0% | 1 | 100.0% | 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% |
| Psychiatry | 287 | 46 | 16.0% | 232 | 80.8% | 6 | 2.1% | 1 | 0.3% | 2 | 0.7% |
| - Addiction medicine (multidisciplinary) | 85 | 82 | 96.5% | 3 | 3.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Addiction psychiatry | 53 | 7 | 13.2% | 46 | 86.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Child and adolescent psychiatry | 146 | 16 | 11.0% | 130 | 89.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Forensic psychiatry | 49 | 6 | 12.2% | 42 | 85.7% | 0 | 0.0% | 0 | 0.0% | 1 | 2.0% |
| - Geriatric psychiatry | 64 | 7 | 10.9% | 57 | 89.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Consultation-liaison psychiatry | 64 | 6 | 9.4% | 58 | 90.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Radiation oncology | 91 | 3 | 3.3% | 80 | 87.9% | 7 | 7.7% | 0 | 0.0% | 1 | 1.1% |
| Radiology-diagnostic | 196 | 6 | 3.1% | 188 | 95.9% | 2 | 1.0% | 0 | 0.0% | 0 | 0.0% |
| - Abdominal radiology | 13 | 2 | 15.4% | 11 | 84.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 3 | 0 | 0.0% | 3 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Musculoskeletal radiology | 20 | 4 | 20.0% | 16 | 80.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neuroradiology | 89 | 5 | 5.6% | 83 | 93.3% | 1 | 1.1% | 0 | 0.0% | 0 | 0.0% |
| - Nuclear radiology | 18 | 1 | 5.6% | 17 | 94.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric radiology | 48 | 4 | 8.3% | 44 | 91.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Interventional radiology - independent | 95 | 95 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Interventional radiology - integrated | 92 | 91 | 98.9% | 1 | 1.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Surgery | 344 | 60 | 17.4% | 262 | 76.2% | 20 | 5.8% | 1 | 0.3% | 1 | 0.3% |
| - Complex general surgical oncology | 31 | 6 | 19.4% | 25 | 80.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 2 | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric surgery | 51 | 3 | 5.9% | 48 | 94.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Surgical critical care | 145 | 27 | 18.6% | 118 | 81.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Vascular surgery | 115 | 12 | 10.4% | 103 | 89.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Vascular surgery - integrated | 67 | 14 | 20.9% | 53 | 79.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Thoracic surgery | 74 | 5 | 6.8% | 69 | 93.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Congenital cardiac surgery | 15 | 4 | 26.7% | 11 | 73.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Thoracic surgery - integrated | 33 | 7 | 21.2% | 24 | 72.7% | 2 | 6.1% | 0 | 0.0% | 0 | 0.0% |
| Urology | 145 | 9 | 6.2% | 130 | 89.7% | 6 | 4.1% | 0 | 0.0% | 0 | 0.0% |
| - Female pelvic medicine and reconstructive surgery | 15 | 3 | 20.0% | 12 | 80.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric urology | 26 | 1 | 3.8% | 25 | 96.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Transitional year | 172 | 48 | 27.9% | 122 | 70.9% | 2 | 1.2% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine/Pediatrics | 79 | 1 | 1.3% | 78 | 98.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| Number of Programs by Specialty and St | | | nic year yu | | /(7(-71171 | | |
|---|-------------|------------|---------------|-----------|--------------|---------------|-------|
| Number of Programs by Specialty and St | ubspecialty | anu Acauei | Academic Year | | ,020-2021 | | |
| | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 5-Year Change | |
| Specialty | # | # | # | # | # | # | % |
| OVERALL | 10,672 | 11,214 | 11,685 | 12,092 | 12,420 | 1,748 | 16.4 |
| TOTAL PIPELINE | 4,383 | 4,668 | 4,842 | 4,985 | 5,187 | 804 | 18.3 |
| Allergy and immunology | 79 | 79 | 78 | 81 | 82 | 3 | 3.8 |
| Anesthesiology | 147 | 153 | 155 | 160 | 161 | 14 | 9.5 |
| - Adult cardiothoracic anesthesiology | 66 | 66 | 69 | 71 | 73 | 7 | 10.6 |
| - Clinical informatics | 1 | 1 | 1 | 1 | 1 | 0 | 0.0 |
| - Critical care medicine | 57 | 62 | 64 | 63 | 64 | 7 | 12.3 |
| - Regional anesthesiology and acute pain medicine * | 9 | 18 | 29 | 35 | 38 | 29 | 322.2 |
| - Obstetric anesthesiology | 32 | 34 | 37 | 41 | 41 | 9 | 28.1 |
| - Pain medicine (multidisciplinary) | 101 | 102 | 104 | 108 | 111 | 10 | 9.9 |
| - Pediatric anesthesiology | 58 | 60 | 61 | 60 | 60 | 2 | 3.4 |
| Colon and rectal surgery | 58 | 62 | 63 | 65 | 66 | 8 | 13.8 |
| Dermatology | 128 | 138 | 142 | 144 | 144 | 16 | 12.5 |
| - Dermatopathology (multidisciplinary) | 53 | 56 | 55 | 56 | 58 | 5 | 9.4 |
| - Micrographic surgery and dermatologic oncology | 75 | 77 | 77 | 78 | 78 | 3 | 4.0 |
| Emergency medicine | 212 | 231 | 247 | 265 | 276 | 64 | 30.2 |
| - Clinical informatics | 4 | 4 | 4 | 5 | 5 | 1 | 25.0 |
| - Emergency medical services | 55 | 61 | 65 | 71 | 75 | 20 | 36.4 |
| - Medical toxicology | 27 | 27 | 27 | 26 | 27 | 0 | 0.0 |
| - Pediatric emergency medicine | 26 | 26 | 26 | 26 | 27 | 1 | 3.8 |
| - Sports medicine | 7 | 8 | 9 | 8 | 9 | 2 | 28.6 |
| - Undersea and hyperbaric medicine | 7 | 7 | 7 | 8 | 8 | 1 | 14.3 |
| Family medicine | 540 | 620 | 671 | 701 | 710 | 170 | 31.5 |
| - Clinical informatics | 2 | 2 | 3 | 6 | 6 | 4 | 200.0 |
| - Geriatric medicine | 44 | 45 | 48 | 50 | 49 | 5 | 11.4 |
| - Hospice and palliative medicine (multidisciplinary) | 130 | 140 | 149 | 167 | 180 | 50 | 38.5 |
| - Sports medicine | 132 | 135 | 143 | 151 | 156 | 24 | 18.2 |
| Internal medicine | 469 | 529 | 545 | 569 | 586 | 117 | 24.9 |
| - Adult congenital heart disease | 10 | 14 | 21 | 24 | 24 | 14 | 140.0 |
| - Advanced heart failure and transplant cardiology | 71 | 75 | 76 | 80 | 82 | 11 | 15.5 |
| - Cardiovascular disease | 210 | 235 | 245 | 250 | 255 | 45 | 21.4 |
| - Clinical cardiac electrophysiology | 105 | 108 | 110 | 110 | 112 | 7 | 6.7 |
| - Clinical informatics | 12 | 13 | 16 | 17 | 19 | 7 | 58.3 |
| - Critical care medicine | 34 | 36 | 43 | 45 | 55 | 21 | 61.8 |
| - Endocrinology, diabetes, and metabolism | 141 | 142 | 149 | 151 | 153 | 12 | 8.5 |
| - Gastroenterology | 175 | 189 | 202 | 207 | 211 | 36 | 20.6 |
| - Geriatric medicine | 106 | 107 | 108 | 111 | 114 | 8 | 7.5 |
| - Hematology | 2 | 2 | 2 | 2 | 2 | 0 | 0.0 |
| - Hematology and medical oncology | 146 | 149 | 157 | 167 | 172 | 26 | 17.8 |
| - Infectious disease | 146 | 148 | 149 | 154 | 158 | 12 | 8.2 |
| - Interventional cardiology | 150 | 155 | 164 | 166 | 170 | 20 | 13.3 |
| - Nephrology | 149 | 150 | 149 | 151 | 152 | 3 | 2.0 |
| - Medical oncology | 6 | 7 | 8 | 7 | 6 | 0 | 0.0 |
| - Pulmonary disease | 20 | 22 | 23 | 22 | 20 | 0 | 0.0 |
| - Pulmonary disease and critical care medicine | 151 | 170 | 178 | 181 | 188 | 37 | 24.5 |
| - Rheumatology | 114 | 120 | 122 | 125 | 125 | 11 | 9.6 |
| - Sleep medicine (multidisciplinary) | 84 | 84 | 86 | 88 | 89 | 5 | 6.0 |
| - Transplant hepatology | 51 | 51 | 52 | 57 | 59 | 8 | 15.7 |
| Medical genetics and genomics | 46 | 46 | 46 | 47 | 46 | 0 | 0.0 |
| - Medical biochemical genetics | 16 | 17 | 19 | 19 | 20 | 4 | 25.0 |
| - Medical biochemical genetics - Molecular genetic pathology (multidisciplinary) | 39 | 41 | 42 | 42 | 42 | 3 | 7.7 |
| - Molecular geneuc pathology (mulituiscipiinary) Neurological surgery | 110 | 112 | 115 | 118 | 116 | 6 | 5.5 |
| - Endovascular surgical neuroradiology | 2 | 2 | 2 | 2 | 2 | 0 | 0.0 |
| - EHGOVASCUIAI SUIGICAI NEUFOFACIOIOGV | 1 2 | 2 | . 2 | . 2 | 2 | U | 1 0.0 |

- Endovascular surgical neuroradiology

0.0%

| 4.0 | A | 4 | | | 7 |
|-----|-----|-----|-----|-------|-----|
| TAB | IFA | . 4 | Cor | itimi | red |

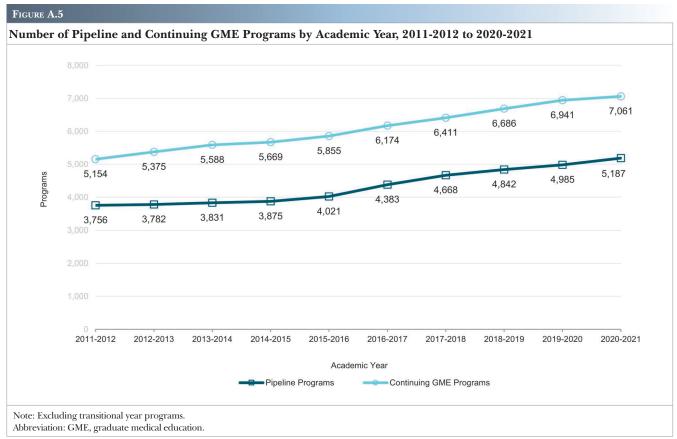
| | | | Academic Year | | | | |
|---|-----------|-----------|---------------|-----------|-----------|--------|--------|
| | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 5-Year | Change |
| Specialty | # | # | # | # | # | # | % |
| Neurology | 144 | 153 | 159 | 160 | 170 | 26 | 18.19 |
| - Brain injury medicine * | 1 | 1 | 1 | 1 | 1 | 0 | 0.09 |
| - Clinical neurophysiology | 94 | 91 | 91 | 92 | 93 | -1 | -1.19 |
| - Epilepsy | 61 | 71 | 77 | 81 | 85 | 24 | 39.39 |
| - Endovascular surgical neuroradiology | 1 | 1 | 2 | 2 | 2 | 1 | 100.09 |
| - Neurodevelopmental disabilities | 8 | 8 | 8 | 8 | 8 | 0 | 0.0 |
| - Neuromuscular medicine | 46 | 49 | 49 | 52 | 53 | 7 | 15.20 |
| - Vascular neurology | 93 | 92 | 99 | 106 | 109 | 16 | 17.29 |
| Child neurology | 74 | 74 | 74 | 76 | 77 | 3 | 4.19 |
| Nuclear medicine | 42 | 41 | 39 | 38 | 37 | -5 | -11.99 |
| Obstetrics and gynecology | 269 | 278 | 282 | 285 | 294 | 25 | 9.39 |
| - Female pelvic medicine and reconstructive surgery | 50 | 51 | 53 | 54 | 54 | 4 | 8.09 |
| - Gynecologic oncology * | 48 | 56 | 59 | 63 | 63 | 15 | 31.39 |
| - Maternal-fetal medicine * | 73 | 88 | 93 | 97 | 100 | 27 | 37.0 |
| - Reproductive endocrinology and infertility * | 41 | 50 | 50 | 51 | 49 | 8 | 19.59 |
| - Complex family planning * | | | | | 26 | N/A | N/A |
| Ophthalmology | 116 | 119 | 123 | 124 | 125 | 9 | 7.89 |
| - Ophthalmic plastic and reconstructive surgery | 5 | 4 | 4 | 4 | 4 | -1 | -20.0 |
| Orthopaedic surgery | 168 | 175 | 185 | 197 | 201 | 33 | 19.69 |
| - Adult reconstructive orthopaedics | 23 | 24 | 24 | 24 | 25 | 2 | 8.79 |
| - Foot and ankle orthopaedics | 6 | 6 | 7 | 7 | 7 | 1 | 16.79 |
| - Hand surgery | 68 | 68 | 72 | 74 | 73 | 5 | 7.49 |
| - Musculoskeletal oncology | 11 | 12 | 12 | 12 | 12 | 1 | 9.19 |
| - Orthopaedic sports medicine | 97 | 96 | 92 | 90 | 93 | -4 | -4.19 |
| - Orthopaedic surgery of the spine | 16 | 17 | 17 | 18 | 16 | 0 | 0.0 |
| - Orthopaedic trauma | 9 | 11 | 11 | 11 | 12 | 3 | 33.30 |
| - Pediatric orthopaedics | 25 | 25 | 26 | 25 | 25 | 0 | 0.0 |
| Osteopathic neuromusculoskeletal medicine | 4 | 13 | 19 | 27 | 28 | 24 | 600.0 |
| Otolaryngology - head and neck surgery | 109 | 117 | 122 | 124 | 125 | 16 | 14.79 |
| - Neurotology | 20 | 23 | 24 | 24 | 26 | 6 | 30.00 |
| - Pediatric otolaryngology | 22 | 25 | 29 | 30 | 31 | 9 | 40.9 |
| Pathology-anatomic and clinical | 142 | 143 | 143 | 142 | 144 | 2 | 1.4 |
| - Blood banking/transfusion medicine | 49 | 50 | 51 | 51 | 52 | 3 | 6.19 |
| - Clinical informatics | 5 | 7 | 8 | 10 | 11 | 6 | 120.0 |
| - Chemical pathology | 4 | 4 | 4 | 4 | 4 | 0 | 0.0 |
| - Cytopathology | 92 | 94 | 94 | 93 | 93 | 1 | 1.1 |
| - Forensic pathology | 40 | 39 | 43 | 45 | 45 | 5 | 12.5 |
| - Hematopathology | 86 | 85 | 87 | 86 | 86 | 0 | 0.0 |
| - Medical microbiology | 15 | 15 | 15 | 15 | 15 | 0 | 0.0 |
| - Neuropathology | 35 | 34 | 36 | 37 | 38 | 3 | 8.6 |
| - Pediatric pathology | 26 | 27 | 27 | 28 | 28 | 2 | 7.7 |
| - Selective pathology | 85 | 83 | 91 | 101 | 109 | 24 | 28.2 |
| Pediatrics | 207 | 210 | 212 | 211 | 210 | 3 | 1.49 |
| - Adolescent medicine | 29 | 29 | 30 | 32 | 32 | 3 | 10.39 |
| - Child abuse pediatrics | 30 | 32 | 31 | 31 | 31 | 1 | 3.39 |
| - Clinical informatics | 5 | 5 | 5 | 7 | 8 | 3 | 60.0 |
| - Developmental-behavioral pediatrics | 39 | 41 | 43 | 43 | 44 | 5 | 12.89 |
| - Neonatal-perinatal medicine | 99 | 100 | 102 | 103 | 107 | 8 | 8.1 |
| - Pediatric cardiology | 59 | 60 | 62 | 63 | 64 | 5 | 8.59 |
| - Pediatric critical care medicine | 67 | 67 | 72 | 72 | 75 | 8 | 11.99 |
| - Pediatric emergency medicine | 52 | 52 | 52 | 53 | 55 | 3 | 5.89 |
| - Pediatric endocrinology | 71 | 72 | 73 | 72 | 72 | 1 | 1.49 |
| - Pediatric gastroenterology | 63 | 64 | 65 | 65 | 67 | 4 | 6.39 |

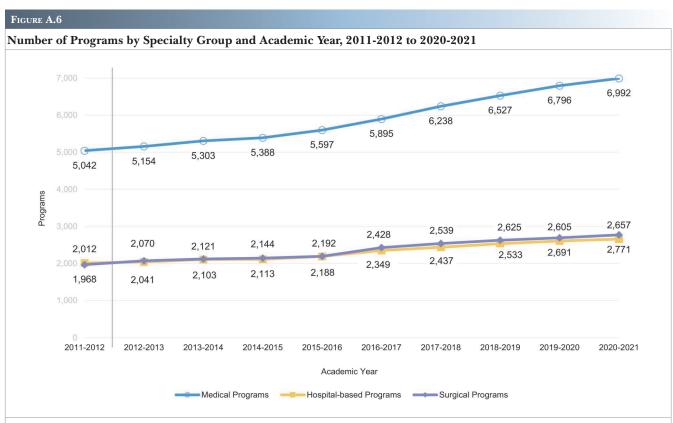
Table A.4 Continued

| Number of Progra | ms by Speci | lty and Subspecial | y and Academic Yea | r, 2016-2017 to 2020-2021 |
|------------------|-------------|--------------------|--------------------|---------------------------|
| | | | | |

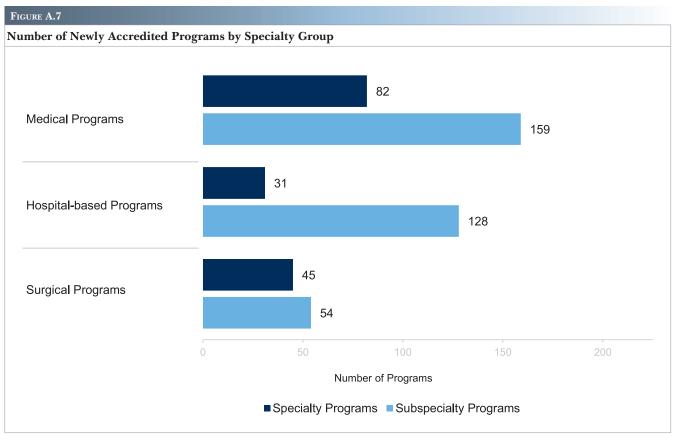
| | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 5-Year | Change |
|---|-----------|-----------|-----------|-----------|-----------|--------|-------------|
| Specialty | # | # | # | # | # | # | % |
| - Pediatric hematology/oncology | 73 | 74 | 74 | 75 | 76 | 3 | 4.19 |
| Pediatric infectious diseases | 64 | 65 | 65 | 64 | 64 | 0 | 0.0 |
| Pediatric nephrology | 44 | 45 | 46 | 47 | 47 | 3 | 6.89 |
| Pediatric pulmonology | 54 | 54 | 54 | 56 | 56 | 2 | 3.79 |
| · Pediatric rheumatology | 36 | 37 | 35 | 36 | 37 | 1 | 2.89 |
| Sports medicine | 18 | 17 | 17 | 17 | 17 | -1 | -5.6 |
| - Pediatric transplant hepatology | 13 | 14 | 15 | 16 | 17 | 4 | 30.8 |
| - Pediatric hospital medicine * | | | | 33 | 54 | 21 | 63.6 |
| Physical medicine and rehabilitation | 86 | 88 | 91 | 94 | 98 | 12 | 14.0 |
| Brain injury medicine | 13 | 18 | 20 | 23 | 25 | 12 | 92.3 |
| Neuromuscular medicine | 1 | 1 | 1 | 1 | 1 | 0 | 0.0 |
| Spinal cord injury medicine | 22 | 22 | 24 | 24 | 24 | 2 | 9.1 |
| Pediatric rehabilitation medicine | 20 | 20 | 20 | 22 | 22 | 2 | 10.0 |
| Sports medicine | 19 | 19 | 19 | 20 | 21 | 2 | 10.5 |
| Plastic surgery | 68 | 61 | 55 | 53 | 52 | -16 | -23.5 |
| Plastic surgery - integrated | 76 | 79 | 81 | 82 | 86 | 10 | 13.2 |
| - Craniofacial surgery | 9 | 8 | 8 | 8 | 8 | -1 | -11.1 |
| - Hand surgery | 16 | 16 | 17 | 17 | 17 | 1 | 6.3 |
| Preventive medicine | 76 | 76 | 75 | 72 | 72 | -4 | -5.3 |
| · Medical toxicology | 1 | 1 | 1 | 1 | 1 | 0 | 0.0 |
| Undersea and hyperbaric medicine | 1 | 1 | 1 | 1 | 1 | 0 | 0.0 |
| Psychiatry | 226 | 248 | 257 | 269 | 287 | 61 | 27.0 |
| - Addiction medicine (multidisciplinary) * | 220 | 240 | 52 | 78 | 85 | 33 | 63.5 |
| | 47 | 40 | 50 | 53 | 53 | 6 | |
| - Addiction psychiatry - Child and adolescent psychiatry | 134 | 49 138 | 140 | 141 | 146 | 12 | 12.8 9.0 |
| | | 47 | | | | 3 | |
| - Forensic psychiatry | 46 | | 48 | 48 | 49 | | 6.5 |
| - Geriatric psychiatry | 59 | 60 | 61 | 62 | 64 | 5 | 8.5 |
| - Consultation-liaison psychiatry | 59 | 61 | 62 | 63 | 64 | 5 | 8.5 |
| Radiation oncology | 92 | 94 | 94 | 91 | 91 | -1 | -1.1 |
| Radiology-diagnostic | 194 | 194 | 195 | 197 | 196 | 2 | 1.0 |
| - Abdominal radiology | 12 | 12 | 13 | 14 | 13 | 1 | 8.3 |
| - Endovascular surgical neuroradiology | 4 | 3 | 3 | 3 | 3 | -1 | -25.0 |
| - Musculoskeletal radiology | 16 | 16 | 16 | 20 | 20 | 4 | 25.0 |
| - Neuroradiology | 85 | 85 | 87 | 87 | 89 | 4 | 4.7 |
| - Nuclear radiology | 18 | 17 | 17 | 17 | 18 | 0 | 0.0 |
| - Pediatric radiology | 46 | 46 | 47 | 47 | 48 | 2 | 4.3 |
| - Vascular and interventional radiology | 93 | 93 | 93 | 92 | | N/A | N/A |
| Interventional radiology - independent * | | | | 2 | 95 | 93 | 4650.0 |
| Interventional radiology - integrated | 65 | 78 | 84 | 89 | 92 | 27 | 41.5 |
| Surgery | 278 | 301 | 323 | 330 | 344 | 66 | 23.7 |
| - Complex general surgical oncology | 24 | 25 | 27 | 29 | 31 | 7 | 29.2 |
| - Hand surgery | 1 | 1 | 1 | 1 | 2 | 1 | 100.0 |
| - Pediatric surgery | 49 | 50 | 50 | 49 | 51 | 2 | 4.1 |
| - Surgical critical care | 117 | 128 | 136 | 139 | 145 | 28 | 23.9 |
| - Vascular surgery | 107 | 106 | 109 | 116 | 115 | 8 | 7.5 |
| Vascular surgery - integrated | 53 | 55 | 60 | 64 | 67 | 14 | 26.4 |
| Thoracic surgery | 69 | 72 | 72 | 74 | 74 | 5 | 7.2 |
| Congenital cardiac surgery | 13 | 13 | 12 | 14 | 15 | 2 | 15.4 |
| Thoracic surgery - integrated | 27 | 26 | 27 | 30 | 33 | 6 | 22.2 |
| Urology | 136 | 138 | 142 | 145 | 145 | 9 | 6.6 |
| Female pelvic medicine and reconstructive surgery | 11 | 13 | 14 | 15 | 15 | 4 | 36.4 |
| · Pediatric urology | 28 | 26 | 26 | 26 | 26 | -2 | -7.1 |
| Transitional year | 115 | 135 | 157 | 166 | 172 | 57 | 49.6 |
| Internal medicine/Pediatrics | 79 | 78 | 79 | 79 | 79 | 0 | 0.0 |

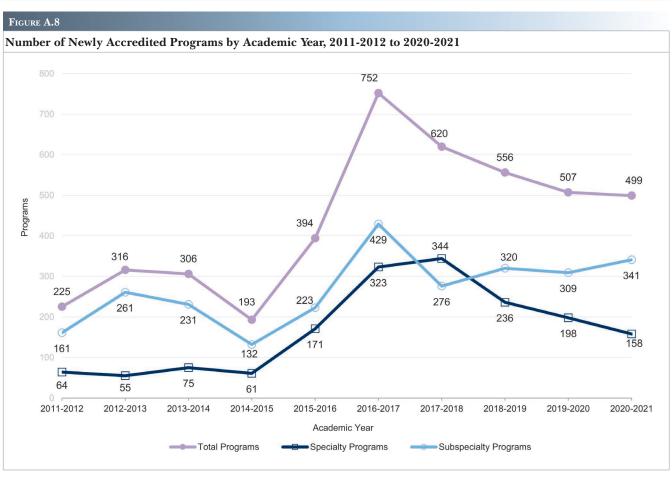
Notes: Pipeline specialties are highlighted. Asterisks (*) indicate specialties and subspecialties added within the last five years. For these specialties and subspecialties, the number and percent change are calculated from the first year of having accredited programs.





Notes: The number of surgical programs exceeds the number of hospital-based programs beginning in the 2012-2013 academic year primarily due to the accreditation of new subspecialty programs in female pelvic medicine and reconstructive surgery and complex surgical oncology. 'Surgical Programs' labels are displayed above the line beyond that point.





| T. | | |
|----|--|--|
| | | |

| Specialty | Total Programs | Newly Accredited Programs | Percentage of Specialty | Percent of All Newly Accredited Programs |
|---|----------------|------------------------------|-------------------------|---|
| OVERALL | 12,420 | 499 | 4.0% | 100.0% |
| TOTAL PIPELINE | 5,187 | 238 | 4.6% | 47.7% |
| Allergy and immunology | 82 | 1 | 1.2% | 0.2% |
| Anesthesiology | 161 | 2 | 1.2% | 0.4% |
| - Adult cardiothoracic anesthesiology | 73 | 2 | 2.7% | 0.4% |
| - Clinical informatics | 1 | 0 | 0.0% | 0.0% |
| - Critical care medicine | 64 | 1 | 1.6% | 0.2% |
| - Regional anesthesiology and acute pain medicine * | 38 | 3 | 7.9% | 0.6% |
| - Obstetric anesthesiology | 41 | 1 | 2.4% | 0.2% |
| - Pain medicine (multidisciplinary) | 111 | 3 | 2.7% | 0.6% |
| - Pediatric anesthesiology | 60 | 0 | 0.0% | 0.0% |
| Colon and rectal surgery | 66 | 2 | 3.0% | 0.4% |
| Dermatology | 144 | 1 | 0.7% | 0.4% |
| | | | | |
| - Dermatopathology (multidisciplinary) | 58 | 3 | 5.2% | 0.6% |
| - Micrographic surgery and dermatologic oncology | 78 | 4 | 5.1% | 0.8% |
| Emergency medicine | 276 | | 4.3% | 2.4% |
| - Clinical informatics | 5 | 0 | 0.0% | 0.0% |
| - Emergency medical services | 75 | 4 | 5.3% | 0.8% |
| - Medical toxicology | 27 | 1 | 3.7% | 0.2% |
| - Pediatric emergency medicine | 27 | 1 | 3.7% | 0.2% |
| - Sports medicine | 9 | 1 | 11.1% | 0.2% |
| - Undersea and hyperbaric medicine | 8 | 0 | 0.0% | 0.0% |
| Family medicine | 710 | 21 | 3.0% | 4.2% |
| - Clinical informatics | 6 | 0 | 0.0% | 0.0% |
| - Geriatric medicine | 49 | 0 | 0.0% | 0.0% |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 13 | 7.2% | 2.6% |
| - Sports medicine | 156 | 5 | 3.2% | 1.0% |
| Internal medicine | 586 | 24 | 4.1% | 4.8% |
| - Adult congenital heart disease | 24 | 0 | 0.0% | 0.0% |
| - Advanced heart failure and transplant cardiology | 82 | 2 | 2.4% | 0.4% |
| - Cardiovascular disease | 255 | 6 | 2.4% | 1.2% |
| - Clinical cardiac electrophysiology | 112 | 2 | 1.8% | 0.4% |
| - Clinical informatics | 19 | 2 | 10.5% | 0.4% |
| - Critical care medicine | 55 | 10 | 18.2% | 2.0% |
| - Endocrinology, diabetes, and metabolism | 153 | 2 | 1.3% | 0.4% |
| - Gastroenterology | 211 | 4 | 1.9% | 0.8% |
| - Geriatric medicine | 114 | 5 | 4.4% | 1.0% |
| - Hematology | 2 | 0 | 0.0% | 0.0% |
| - Hematology and medical oncology | 172 | 6 | 3.5% | 1.2% |
| - Infectious disease | 158 | 4 | 2.5% | 0.8% |
| - Interventional cardiology | 170 | 4 | 2.4% | 0.8% |
| - Nephrology | 152 | 3 | 2.0% | 0.6% |
| - Medical oncology | 6 | 0 | 0.0% | 0.0% |
| - Pulmonary disease | 20 | 0 | 0.0% | 0.0% |
| - Pulmonary disease and critical care medicine | 188 | 7 | 3.7% | 1.4% |
| - Rheumatology | 125 | 0 | 0.0% | 0.0% |
| - Sleep medicine (multidisciplinary) | 89 | 2 | 2.2% | 0.4% |
| Transplant hepatology | 59 | 3 | 5.1% | 0.6% |
| Medical genetics and genomics | 46 | 0 | 0.0% | 0.0% |
| | | | | |
| Melawlar genetic path clary (publidical linear) | 20 | 1 | 5.0% | 0.2% |
| - Molecular genetic pathology (multidisciplinary) | 42 | 2 | 4.8% | 0.4% |
| Neurological surgery - Endovascular surgical neuroradiology | 116 | 0 0 | 0.0% | 0.0% |

| TADIE | A O | Con | ntin | nod |
|-------|-----|-----|------|-----|

| Number of Newly Accredited Programs d | luring the Academi | c Vear by Specialty | and Subanasialty | | | | | | | | |
|--|--------------------|------------------------------|-------------------------|---|--|--|--|--|--|--|--|
| Number of Newly Accredited Programs during the Academic Year by Specialty and Subspecialty Newly Accredited Percent of All Newly | | | | | | | | | | | |
| Specialty | Total Programs | Newly Accredited Programs | Percentage of Specialty | Percent of All Newly Accredited Programs | | | | | | | |
| Neurology | 170 | 10 | 5.9% | 2.0% | | | | | | | |
| - Brain injury medicine * | 1 | 0 | 0.0% | 0.0% | | | | | | | |
| - Clinical neurophysiology | 93 | 2 | 2.2% | 0.4% | | | | | | | |
| - Epilepsy | 85 | 4 | 4.7% | 0.8% | | | | | | | |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 0.0% | | | | | | | |
| - Neurodevelopmental disabilities | 8 | 0 | 0.0% | 0.0% | | | | | | | |
| - Neuromuscular medicine | 53 | 1 | 1.9% | 0.2% | | | | | | | |
| - Vascular neurology | 109 | 4 | 3.7% | 0.8% | | | | | | | |
| Child neurology | 77 | 1 | 1.3% | 0.2% | | | | | | | |
| Nuclear medicine | 37 | 0 | 0.0% | 0.0% | | | | | | | |
| Obstetrics and gynecology | 294 | 9 | 3.1% | 1.8% | | | | | | | |
| Female pelvic medicine and reconstructive surgery | 54 | 0 | 0.0% | 0.0% | | | | | | | |
| - Gynecologic oncology * | 63 | 1 | 1.6% | 0.2% | | | | | | | |
| - Maternal-fetal medicine * | 100 | 3 | 3.0% | 0.2% | | | | | | | |
| | | | 0.0% | | | | | | | | |
| - Reproductive endocrinology and infertility * | 49 | 0 | | 0.0% | | | | | | | |
| - Complex family planning * | 26 | 26 | 100.0% | 5.2% | | | | | | | |
| Ophthalmology | 125 | 2 | 1.6% | 0.4% | | | | | | | |
| - Ophthalmic plastic and reconstructive surgery | 4 | 0 | 0.0% | 0.0% | | | | | | | |
| Orthopaedic surgery | 201 | 4 | 2.0% | 0.8% | | | | | | | |
| - Adult reconstructive orthopaedics | 25 | 1 | 4.0% | 0.2% | | | | | | | |
| - Foot and ankle orthopaedics | 7 | 0 | 0.0% | 0.0% | | | | | | | |
| - Hand surgery | 73 | 1 | 1.4% | 0.2% | | | | | | | |
| - Musculoskeletal oncology | 12 | 0 | 0.0% | 0.0% | | | | | | | |
| - Orthopaedic sports medicine | 93 | 3 | 3.2% | 0.6% | | | | | | | |
| - Orthopaedic surgery of the spine | 16 | 0 | 0.0% | 0.0% | | | | | | | |
| - Orthopaedic trauma | 12 | 1 | 8.3% | 0.2% | | | | | | | |
| - Pediatric orthopaedics | 25 | 0 | 0.0% | 0.0% | | | | | | | |
| Osteopathic neuromusculoskeletal medicine | 28 | 1 | 3.6% | 0.2% | | | | | | | |
| Otolaryngology - head and neck surgery | 125 | 1 | 0.8% | 0.2% | | | | | | | |
| - Neurotology | 26 | 2 | 7.7% | 0.4% | | | | | | | |
| - Pediatric otolaryngology | 31 | 1 | 3.2% | 0.2% | | | | | | | |
| Pathology-anatomic and clinical | 144 | 2 | 1.4% | 0.4% | | | | | | | |
| - Blood banking/transfusion medicine | 52 | 1 | 1.9% | 0.2% | | | | | | | |
| - Clinical informatics | 11 | 1 | 9.1% | 0.2% | | | | | | | |
| - Chemical pathology | 4 | 0 | 0.0% | 0.0% | | | | | | | |
| - Cytopathology | 93 | 0 | 0.0% | 0.0% | | | | | | | |
| - Forensic pathology | 45 | 0 | 0.0% | 0.0% | | | | | | | |
| - Hematopathology | 86 | 0 | 0.0% | 0.0% | | | | | | | |
| - Medical microbiology | 15 | 0 | 0.0% | 0.0% | | | | | | | |
| - Neuropathology | 38 | 1 | 2.6% | 0.2% | | | | | | | |
| - Pediatric pathology | 28 | 0 | 0.0% | 0.0% | | | | | | | |
| - Selective pathology | 109 | 8 | 7.3% | 1.6% | | | | | | | |
| Pediatrics | 210 | 1 | 0.5% | 0.2% | | | | | | | |
| - Adolescent medicine | 32 | 0 | 0.0% | 0.0% | | | | | | | |
| - Child abuse pediatrics | 31 | 0 | 0.0% | 0.0% | | | | | | | |
| - Clinical informatics | 8 | 1 | 12.5% | 0.2% | | | | | | | |
| - Developmental-behavioral pediatrics | 44 | 1 | 2.3% | 0.2% | | | | | | | |
| - Neonatal-perinatal medicine | 107 | 4 | 3.7% | 0.2% | | | | | | | |
| | | + | | | | | | | | | |
| - Pediatric cardiology | 64 | 1 | 1.6% | 0.2% | | | | | | | |
| - Pediatric critical care medicine | 75 | 3 | 4.0% | 0.6% | | | | | | | |
| - Pediatric emergency medicine | 55 | 2 | 3.6% | 0.4% | | | | | | | |
| - Pediatric endocrinology - Pediatric gastroenterology | 72 67 | 0 2 | 0.0% 3.0% | 0.0% | | | | | | | |

| 4.0 | A 7 | 2 | | 7 |
|-------|-------|-------|------|-----|
| TABLE | 7 A ' | 9 (67 | mtin | med |

| Specialty | Total Programs | Newly Accredited Programs | Percentage of Specialty | Percent of All Newly Accredited Programs |
|--|----------------|------------------------------|-------------------------|---|
| - Pediatric hematology/oncology | 76 | 1 | 1.3% | 0.2% |
| - Pediatric infectious diseases | 64 | 0 | 0.0% | 0.0% |
| - Pediatric nephrology | 47 | 0 | 0.0% | 0.0% |
| - Pediatric pulmonology | 56 | 0 | 0.0% | 0.0% |
| - Pediatric rheumatology | 37 | 1 | 2.7% | 0.2% |
| - Sports medicine | 17 | 1 | 5.9% | 0.2% |
| - Pediatric transplant hepatology | 17 | 1 | 5.9% | 0.2% |
| - Pediatric hospital medicine * | 54 | 21 | 38.9% | 4.2% |
| Physical medicine and rehabilitation | 98 | 4 | 4.1% | 0.8% |
| - Brain injury medicine | 25 | 2 | 8.0% | 0.4% |
| - Neuromuscular medicine | 1 | 0 | 0.0% | 0.0% |
| - Spinal cord injury medicine | 24 | 0 | 0.0% | 0.0% |
| - Pediatric rehabilitation medicine | 22 | 1 | 4.5% | 0.2% |
| - Sports medicine | 21 | 1 | 4.8% | 0.2% |
| Plastic surgery | 52 | 1 | 1.9% | 0.2% |
| Plastic surgery - integrated | 86 | 4 | 4.7% | 0.8% |
| - Craniofacial surgery | 8 | 0 | 0.0% | 0.0% |
| - Hand surgery | 17 | 1 | 5.9% | 0.2% |
| Preventive medicine | 72 | 1 | 1.4% | 0.2% |
| - Medical toxicology | 1 | 0 | 0.0% | 0.0% |
| - Undersea and hyperbaric medicine | 1 | 0 | 0.0% | 0.0% |
| Psychiatry Psychiatry | 287 | 18 | 6.3% | 3.6% |
| - Addiction medicine (multidisciplinary) * | 85 | 8 | 9.4% | 1.6% |
| - Addiction psychiatry | 53 | 0 | 0.0% | 0.0% |
| - Addiction psychiatry - Child and adolescent psychiatry | 146 | 5 | 3.4% | 1.0% |
| - Forensic psychiatry | 49 | 2 | 4.1% | 0.4% |
| - Foreistic psychiatry - Geriatric psychiatry | 64 | 2 | 3.1% | 0.4% |
| - Genatric psychiatry - Consultation-liaison psychiatry | 64 | 1 | 1.6% | 0.4% |
| Radiation oncology | 91 | 0 | 0.0% | 0.2% |
| | 196 | 1 | 0.5% | 0.0% |
| Radiology-diagnostic - Abdominal radiology | 13 | 0 | 0.0% | 0.2% |
| - Andoninia radiology - Endovascular surgical neuroradiology | 3 | 0 | 0.0% | 0.0% |
| | 20 | 0 | 0.0% | 0.0% |
| - Musculoskeletal radiology | 89 | 2 | 2.2% | 0.4% |
| - Neuroradiology - Nuclear radiology | 18 | 1 | 5.6% | 0.4% |
| O/ | 48 | 1 | 2.1% | 0.2% |
| - Pediatric radiology Interventional radiology - independent * | 95 | 93 | | |
| | | | 97.9% | 18.6% |
| Interventional radiology - integrated | 92 | 3 16 | 3.3% | 0.6% |
| Surgery | 344 | | 4.7% | 3.2% |
| - Complex general surgical oncology | 31 | 2 | 6.5% | 0.4% |
| - Hand surgery | 2 | 1 | 50.0% | 0.2% |
| - Pediatric surgery | 51 | 2 | 3.9% | 0.4% |
| - Surgical critical care | 145 | 8 | 5.5% | 1.6% |
| - Vascular surgery | 115 | 0 | 0.0% | 0.0% |
| Vascular surgery - integrated | 67 | 3 | 4.5% | 0.6% |
| Thoracic surgery | 74 | 0 | 0.0% | 0.0% |
| - Congenital cardiac surgery | 15 | 1 | 6.7% | 0.2% |
| Thoracic surgery - integrated | 33 | 3 | 9.1% | 0.6% |
| Urology | 145 | 0 | 0.0% | 0.0% |
| - Female pelvic medicine and reconstructive surgery | 15 | 0 | 0.0% | 0.0% |
| - Pediatric urology | 26 | 0 | 0.0% | 0.0% |
| Transitional year | 172 | 10 | 5.8% | 2.0% |
| Internal medicine/Pediatrics | 79 | 0 | 0.0% | 0.0% |

| TABLE A.10 | | | | | | | |
|---|---------------|--------------|--------------------------------|-----------|----------------------------|------------|-------------------------|
| Number of Programs with a Withdrawn | Accreditation | on Status du | ring the Aca | demic Yea | r by Specialt | y and Subs | pecialty |
| | Total | | on Withdrawn lemic Year End | | Withdrawn at c Year End | | thdrawal of litation |
| Specialty | Programs | # | % | # | % | # | % |
| OVERALL | 12,420 | 17 | 0.1% | 30 | 0.2% | 8 | 0.1% |
| TOTAL PIPELINE | 5,187 | 5 | 0.1% | 16 | 0.3% | 5 | 0.1% |
| Allergy and immunology | 82 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Anesthesiology | 161 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Adult cardiothoracic anesthesiology | 73 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 1 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 64 | 0 | 0.0% | 1 | 1.6% | 0 | 0.0% |
| - Regional anesthesiology and acute pain medicine | 38 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Obstetric anesthesiology | 41 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pain medicine (multidisciplinary) | 111 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric anesthesiology | 60 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Colon and rectal surgery | 66 | 1 | 1.5% | 0 | 0.0% | 0 | 0.0% |
| Dermatology | 144 | 0 | 0.0% | 1 | 0.7% | 0 | 0.0% |
| - Dermatopathology (multidisciplinary) | 58 | 0 | 0.0% | 0 | 0.0% | 1 | 1.7% |
| - Micrographic surgery and dermatologic oncology | 78 | 1 | 1.3% | 3 | 3.8% | 0 | 0.0% |
| Emergency medicine | 276 | 0 | 0.0% | 0 | 0.0% | 1 | 0.4% |
| - Clinical informatics | 5 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Emergency medical services | 75 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical toxicology | 27 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric emergency medicine | 27 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 9 | 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 | 710 | 1 | 0.1% | 2 | 0.3% | 3 | 0.4% |
| - Clinical informatics | 6 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 49 | 0 | 0.0% | 2 | 4.1% | 0 | 0.0% |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 156 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine | 586 | 0 | 0.0% | 2 | 0.3% | 0 | 0.0% |
| - Adult congenital heart disease | 24 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Advanced heart failure and transplant cardiology | 82 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Cardiovascular disease | 255 | 0 | 0.0% | 1 | 0.4% | 0 | 0.0% |
| - Clinical cardiac electrophysiology | 112 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 19 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 55 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Endocrinology, diabetes, and metabolism | 153 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Gastroenterology | 211 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 114 | 0 | 0.0% | 1 | 0.9% | 0 | 0.0% |
| - Hematology | 2 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hematology and medical oncology | 172 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Infectious disease | 158 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Interventional cardiology | 170 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Nephrology | 152 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical oncology | 6 | 0 | 0.0% | 1 | 16.7% | 0 | 0.0% |
| - Pulmonary disease | 20 | 0 | 0.0% | 1 | 5.0% | 0 | 0.0% |
| - Pulmonary disease and critical care medicine | 188 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Rheumatology | 125 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Sleep medicine (multidisciplinary) | 89 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Transplant hepatology | 59 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Medical genetics and genomics | 46 | 0 | 0.0% | 1 | 2.2% | 0 | 0.0% |
| - Medical biochemical genetics | 20 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Molecular genetic pathology (multidisciplinary) | 42 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Neurological surgery | 116 | 0 | 0.0% | 0 | 0.0% | 1 | 0.9% |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| (D) | 10 | <i>a</i> | |
|---------|----|----------|-----|
| TABLE A | | Contina | ind |
| | | | |

| | Total | | on Withdrawn lemic Year End | | | n at Future Withdrawal of Accreditation | | |
|--|----------|---|--------------------------------|---|------|---|------|--|
| Specialty | Programs | # | % | # | % | # | % | |
| Neurology | 170 | 0 | 0.0% | 1 | 0.6% | 0 | 0.0% | |
| - Brain injury medicine | 1 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Clinical neurophysiology | 93 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Epilepsy | 85 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Neurodevelopmental disabilities | 8 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Neuromuscular medicine | 53 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Vascular neurology | 109 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Child neurology | 77 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Nuclear medicine | 37 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Obstetrics and gynecology | 294 | 0 | 0.0% | 1 | 0.3% | 0 | 0.0% | |
| - Female pelvic medicine and reconstructive surgery | 54 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Gynecologic oncology | 63 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Maternal-fetal medicine | 100 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Reproductive endocrinology and infertility | 49 | 0 | 0.0% | 1 | 2.0% | 1 | 2.0% | |
| - Complex family planning | 26 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Ophthalmology | 125 | 0 | 0.0% | 1 | 0.8% | 0 | 0.0% | |
| - Ophthalmic plastic and reconstructive surgery | 4 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Orthopaedic surgery | 201 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Adult reconstructive orthopaedics | 25 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Foot and ankle orthopaedics | 7 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Hand surgery | 73 | 2 | 2.7% | 0 | 0.0% | 0 | 0.0% | |
| - Musculoskeletal oncology | 12 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Orthopaedic sports medicine | 93 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Orthopaedic sports medicine - Orthopaedic surgery of the spine | 16 | 2 | 12.5% | 0 | 0.0% | 1 | 6.3% | |
| - Orthopaedic surgery of the spine - Orthopaedic trauma | 12 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| • | 25 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Pediatric orthopaedics | 28 | | | | | | | |
| Osteopathic neuromusculoskeletal medicine | - | 0 | 0.0% | 1 | 3.6% | 0 | 0.0% | |
| Otolaryngology - head and neck surgery | 125 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Neurotology | 26 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Pediatric otolaryngology | 31 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Pathology-anatomic and clinical | 144 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Blood banking/transfusion medicine | 52 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Clinical informatics | 11 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Chemical pathology | 4 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Cytopathology | 93 | 0 | 0.0% | 1 | 1.1% | 0 | 0.0% | |
| - Forensic pathology | 45 | 0 | 0.0% | 1 | 2.2% | 0 | 0.0% | |
| - Hematopathology | 86 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Medical microbiology | 15 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Neuropathology | 38 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Pediatric pathology | 28 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Selective pathology | 109 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Pediatrics | 210 | 1 | 0.5% | 1 | 0.5% | 0 | 0.0% | |
| - Adolescent medicine | 32 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Child abuse pediatrics | 31 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Clinical informatics | 8 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Developmental-behavioral pediatrics | 44 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Neonatal-perinatal medicine | 107 | 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 | 75 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Pediatric emergency medicine | 55 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Pediatric endocrinology | 72 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| - Pediatric gastroenterology | 67 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |

Table A.10 Continued Number of Programs with a Withdrawn Accreditation Status during the Academic Year by Specialty and Subspecialty Accreditation Withdrawn Accreditation Withdrawn at Future Withdrawal of Prior to Academic Year End Academic Year End Accreditation Total Specialty **Programs** # % # % # % 0.0% 0.0% 0 0.0% - Pediatric hematology/oncology 76 0 0 Pediatric infectious diseases 0 0.0% 0 0.0% 0 0.0% 64 Pediatric nephrology 47 0 0.0%0 0.0% 0 0.0%Pediatric pulmonology 56 0 0.0% 0 0.0% 0 0.0% Pediatric rheumatology 37 0 0.0% 0 0.0% 0 0.0% Sports medicine 17 0 0.0% 0 0.0% 0 0.0% - Pediatric transplant hepatology 17 0 0.0% 0 0.0% 0 0.0% - Pediatric hospital medicine 54 0 0.0% 0 0.0% 0 0.0% Physical medicine and rehabilitation 98 0 0.0% 0 0.0% 0 0.0% - Brain injury medicine 25 0 0.0% 0 0.0% 0 0.0% - Neuromuscular medicine 0 0.0% 0 0.0% 0 0.0% 1 - Spinal cord injury medicine 24 0 0.0% 0 0.0% 0 0.0% - Pediatric rehabilitation medicine 22 0 0.0% 0 0.0% 0 0.0% - Sports medicine 21 0 0.0% 0 0.0% 0 0.0% Plastic surgery 52 1.9% 0 0.0% 0 0.0% 86 0 0 Plastic surgery - integrated 0.0% 1 1.2% 0.0%0 0 0 0.0% Craniofacial surgery 8 0.0% 0.0% 17 0 0.0% 0 0.0% 0 0.0% - Hand surgery Preventive medicine 72 0 0.0% 0 0.0%0 0.0% Medical toxicology 1 0 0.0% 0 0.0%0 0.0%- Undersea and hyperbaric medicine 0.0%0.0% 0 0 0.0%0 Psychiatry 287 0 0.0% 9 0.7%0 0.0%- Addiction medicine (multidisciplinary) 85 0 0.0% 0 0.0% 0 0.0% - Addiction psychiatry 53 0 0.0% 0 0.0% 0 0.0% 0.0% 146 0 0.0% 0 0 0.0% - Child and adolescent psychiatry - Forensic psychiatry 49 0 0.0%2.0% 0 0.0% 0.0% Geriatric psychiatry 64 0.0% 0.0% 0 0 0 0.0% - Consultation-liaison psychiatry 64 0 0.0%0 0.0% 0 Radiation oncology 91 0 0.0% 1 1.1% 0 0.0% Radiology-diagnostic 196 0.0%0 0.0% 0 0.0%0 Abdominal radiology 13 0 0.0%0 0.0% 0 0.0% - Endovascular surgical neuroradiology 3 0 0.0% 0 0.0% 0 0.0% - Musculoskeletal radiology 20 0 0.0% 0 0.0% 0 0.0% 0 0 0 - Neuroradiology 89 0.0%0.0%0.0% 0 0 0 0.0% Nuclear radiology 18 0.0%0.0%0 0 0 0.0% Pediatric radiology 48 0.0%0.0% Interventional radiology - independent 95 0 0.0% 0 0.0% 0 0.0% Interventional radiology - integrated 92 0 0.0% 0 0.0%0 0.0%344 2 0.6% 0.3% 0 0.0% Surgery Complex general surgical oncology 31 0 0.0%0 0.0% 0 0.0%· Hand surgery 2 0 0.0% 0 0.0% 0 0.0% Pediatric surgery 51 0 0.0% 0 0.0% 0 0.0% · Surgical critical care 145 1 0.7% 0 0.0% 0 0.0% 0 Vascular surgery 115 1 0.9% 0 0.0% 0.0% Vascular surgery - integrated 67 0 0.0% 0 0.0% 0 0.0% Thoracic surgery 74 0 0.0% 0 0.0% 0 0.0% - Congenital cardiac surgery 15 0 0.0% 0 0.0% 0 0.0% 33 0 0 0.0% 0 0.0% Thoracic surgery - integrated 0.0% 145 0 0.0% 0 0.0% 0 0.0% - Female pelvic medicine and reconstructive surgery 15 0 0.0% 0 0.0% 0 0.0% - Pediatric urology 26 0 0.0% 0 0.0% 0 0.0% Transitional year 172 0.6% 0 0.0% 0 0.0% 1 Internal medicine/Pediatrics 79 0 0.0% 0.0% 0 0.0%

Notes: Pipeline specialties are highlighted. Total program counts exclude programs withdrawn prior to the end of the academic year (n=17).

TABLE A.11

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

| | | | | Leng | un of Accrec | lited Educat | ion and 1ra | ınıng | 1 |
|---|---------------------|----------|-----|------|--------------|--------------|-------------|-------|----|
| | MIN No. of Prior | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Specialty | Years | Programs | # | # | # | # | # | # | # |
| Allergy and immunology | 3 | 82 | | 82 | | | | | |
| Anesthesiology | 1/0 | 161 | | | 22 | 139 | | | |
| - Adult cardiothoracic anesthesiology | 4 | 73 | 73 | | | | | | |
| - Clinical informatics | 4 | 1 | | 1 | | | | | |
| - Critical care medicine | 4 | 64 | 64 | | | | | | |
| - Regional anesthesiology and acute pain medicine | 4 | 38 | 38 | | | | | | |
| - Obstetric anesthesiology | 3/4 | 41 | 41 | | | | | | |
| - Pain medicine (multidisciplinary) | 3/4 | 111 | 111 | | | | | | |
| - Pediatric anesthesiology | 4 | 60 | 60 | | | | | | |
| Colon and rectal surgery | 5 | 66 | 66 | | | | | | |
| Dermatology | 1/0 | 144 | | | 139 | 5 | | | |
| - Dermatopathology (multidisciplinary) | 4 | 58 | 58 | | | | | | |
| - Micrographic surgery and dermatologic oncology | 4 | 78 | 78 | | | | | | |
| Emergency medicine | 0 | 276 | | | 216 | 60 | | | |
| - Clinical informatics | 3 | 5 | | 5 | | | | | |
| - Emergency medical services | 3 | 75 | 75 | | | | | | |
| - Medical toxicology | 3 | 27 | | 27 | | | | | |
| - Pediatric emergency medicine | 3 | 27 | | | 27 | | | | |
| - Sports medicine | 3 | 9 | 9 | | | | | | |
| - Undersea and hyperbaric medicine | 3 | 8 | 8 | | | | | | |
| Family medicine | 0 | 710 | | | 701 | 9 | | | |
| - Clinical informatics | 3 | 6 | | 6 | | - | | | |
| - Geriatric medicine | 3 | 49 | 49 | | | | | | |
| - Hospice and palliative medicine (multidisciplinary) | 3 | 180 | 180 | | | | | | |
| - Sports medicine | 3 | 156 | 156 | | | | | | |
| Internal medicine | 0 | 586 | | | 586 | | | | |
| - Adult congenital heart disease | 3 | 24 | | 24 | | | | | |
| - Advanced heart failure and transplant cardiology | 6 | 82 | 82 | | | | | | |
| - Cardiovascular disease | 3 | 255 | | | 255 | | | | |
| - Clinical cardiac electrophysiology | 6 | 112 | | 112 | | | | | |
| - Clinical informatics | 3 | 19 | | 19 | | | | | |
| - Critical care medicine | 3 | 55 | | 55 | | | | | |
| - Endocrinology, diabetes, and metabolism | 3 | 153 | | 153 | | | | | |
| - Gastroenterology | 3 | 211 | | 100 | 211 | | | | |
| - Geriatric medicine | 3 | 114 | 114 | | | | | | |
| - Hematology | 3 | 2 | *** | 2 | | | | | |
| - Hematology and medical oncology | 3 | 172 | | | 172 | | | | |
| - Infectious disease | 3 | 158 | | 158 | 1,4 | | | | |
| - Interventional cardiology | 6 | 170 | 170 | 130 | | | | | |
| - Nephrology | 3 | 152 | 170 | 152 | | | | | |
| - Medical oncology | 3 | 6 | | 6 | | | | | |
| - Pulmonary disease | 3 | 20 | | 20 | | | | | |
| - Pulmonary disease and critical care medicine | 3 | 188 | | 40 | 188 | | | | |
| - Rheumatology | 3 | 125 | | 125 | 100 | | | | |
| - Sleep medicine (multidisciplinary) | 3/4/5 | 89 | 89 | 140 | | | | | |
| - Transplant hepatology | 6 | 59 | 59 | | | | | | |
| Medical genetics and genomics | 2/0 | 46 | JJ | 46 | | | | | |
| - Medical biochemical genetics | 4 | 20 | 20 | -10 | | | | | |
| Molecular genetic pathology (multidisciplinary) | 4 | 42 | 42 | | | | | | |
| Neurological surgery | 0 | 116 | 44 | | | | | | 11 |
| - Endovascular surgical neuroradiology | 6 | 2 | 2 | | | | | | 11 |

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

| | | | Length of Accredited Education and Training | | | | | | |
|---|---------------------|----------|---|----|-----|-----|-----|---|---|
| | MIN No. of Prior | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Specialty | Years | Programs | # | # | # | # | # | # | # |
| Neurology | 1/0 | 170 | | | 49 | 121 | | | |
| - Brain injury medicine | 3/4 | 1 | 1 | | | | | | |
| - Clinical neurophysiology | 4 | 93 | 93 | | | | | | |
| - Epilepsy | 3 | 85 | 85 | | | | | | |
| - Endovascular surgical neuroradiology | 5 | 2 | 2 | | | | | | |
| - Neurodevelopmental disabilities | 2 | 8 | | | | 8 | | | |
| - Neuromuscular medicine | 4 | 53 | 53 | | | | | | |
| - Vascular neurology | 4 | 109 | 109 | | | | | | |
| Child neurology | 2 | 77 | | | 77 | | | | |
| Nuclear medicine | 1 | 37 | | | 37 | | | | |
| Obstetrics and gynecology | 0 | 294 | | | | 294 | | | |
| - Female pelvic medicine and reconstructive surgery | 4 | 54 | | | 54 | | | | |
| - Gynecologic oncology | 4 | 63 | | | 63 | | | | |
| - Maternal-fetal medicine | 4 | 100 | | | 100 | | | | |
| - Reproductive endocrinology and infertility | 4 | 49 | | | 49 | | | | |
| - Complex family planning | 4 | 26 | | 26 | | | | | |
| Ophthalmology | 1 | 125 | | | 125 | | | | |
| - Ophthalmic plastic and reconstructive surgery | 4 | 4 | | 4 | | | | | |
| Orthopaedic surgery | 0 | 201 | | | | | 201 | | |
| - Adult reconstructive orthopaedics | 5 | 25 | 25 | | | | | | |
| - Foot and ankle orthopaedics | 5 | 7 | 7 | | | | | | |
| - Hand surgery | 5 | 73 | 73 | | | | | | |
| - Musculoskeletal oncology | 5 | 12 | 12 | | | | | | |
| - Orthopaedic sports medicine | 5 | 93 | 93 | | | | | | |
| - Orthopaedic surgery of the spine | 5 | 16 | 16 | | | | | | |
| - Orthopaedic trauma | 5 | 12 | 12 | | | | | | |
| - Pediatric orthopaedics | 5 | 25 | 25 | | | | | | |
| Osteopathic neuromusculoskeletal medicine | 0 | 28 | | | 28 | | | | |
| Otolaryngology - head and neck surgery | 0 | 125 | | | | | 125 | | |
| - Neurotology | 5 | 26 | | 26 | | | | | |
| - Pediatric otolaryngology | 5 | 31 | 31 | | | | | | |
| Pathology-anatomic and clinical | 0 | 144 | | | 1 | 143 | | | |
| - Blood banking/transfusion medicine | 2 | 52 | 52 | | | | | | |
| - Clinical informatics | 2 | 11 | | 11 | | | | | |
| - Chemical pathology | 2 | 4 | 4 | | | | | | |
| - Cytopathology | 2 | 93 | 93 | | | | | | |
| - Forensic pathology | 2 | 45 | 45 | | | | | | |
| - Hematopathology | 2 | 86 | 86 | | | | | | |
| - Medical microbiology | 4 | 15 | 15 | | | | | | |
| - Neuropathology | 2 | 38 | | 38 | | | | | |
| - Pediatric pathology | 2 | 28 | 28 | | | | | | |
| - Selective pathology | 2 | 109 | 109 | | | | | | |
| Pediatrics | 0 | 210 | | | 210 | | | | |
| - Adolescent medicine | 3 | 32 | | | 32 | | | | |
| - Child abuse pediatrics | 3 | 31 | | | 31 | | | | |
| - Clinical informatics | 3 | 8 | | 8 | | | | | |
| - Developmental-behavioral pediatrics | 3 | 44 | | | 44 | | | | |
| - Neonatal-perinatal medicine | 3 | 107 | | | 107 | | | | |
| - Pediatric cardiology | 3 | 64 | | | 64 | | | | |
| - Pediatric critical care medicine | 3 | 75 | | | 75 | | | | |
| - Pediatric emergency medicine | 3 | 55 | | | 55 | | | | |
| - Pediatric endocrinology | 3 | 72 | | | 72 | | | | |
| - Pediatric gastroenterology | 3 | 67 | | | 67 | | | | |

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

| | | | Length of Accredited Education and Training | | | | | | |
|---|----------------|-------------------|---|-----|------|-----|-----|-----|---|
| | MIN No. of | T-4-1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Specialty | Prior Years | Total Programs | # | # | # | # | # | # | # |
| - Pediatric hematology/oncology | 3 | 76 | | | 76 | | | | |
| - Pediatric infectious diseases | 3 | 64 | | | 64 | | | | |
| - Pediatric nephrology | 3 | 47 | | | 47 | | | | |
| - Pediatric pulmonology | 3 | 56 | | | 56 | | | | |
| - Pediatric rheumatology | 3 | 37 | | | 37 | | | | |
| - Sports medicine | 3 | 17 | 17 | | 31 | | | | |
| - Sports medicine - Pediatric transplant hepatology | 6 | 17 | 17 | | | | | | |
| | 3 | | 17 | F 4 | | | | | |
| - Pediatric hospital medicine | | 54 98 | | 54 | F 17 | 4.1 | | | |
| Physical medicine and rehabilitation | 1/0 | | 05 | | 57 | 41 | | | |
| - Brain injury medicine | 3/4 | 25 | 25 | | | | | | |
| - Neuromuscular medicine | 3/4 | 1 | 1 | | | | | | |
| - Spinal cord injury medicine | 3/4 | 24 | 24 | | | | | | |
| - Pediatric rehabilitation medicine | 4 | 22 | | 22 | | | | | |
| - Sports medicine | 3/4 | 21 | 21 | | | | | | |
| Plastic surgery | 3 | 52 | | | 52 | | | | |
| Plastic surgery - integrated | 0 | 86 | | | | | | 86 | |
| - Craniofacial surgery | 6 | 8 | 8 | | | | | | |
| - Hand surgery | 5 | 17 | 17 | | | | | | |
| Preventive medicine | 1/0 | 72 | | 70 | 2 | | | | |
| - Medical toxicology | 3 | 1 | | 1 | | | | | |
| - Undersea and hyperbaric medicine | 3 | 1 | 1 | | | | | | |
| Psychiatry | 0 | 287 | 1 | | | 286 | | | |
| - Addiction medicine (multidisciplinary) | 1/2/3/4 | 85 | 85 | | | 200 | | | |
| - Addiction psychiatry | 4 | 53 | 52 | 1 | | | | | |
| - Child and adolescent psychiatry | 3 | 146 | 34 | 146 | | | | | |
| - Forensic psychiatry | 4 | 49 | 49 | 140 | | | | | |
| | 4 | 64 | 63 | 1 | | | | | |
| - Geriatric psychiatry | | | | 1 | | | | | |
| - Consultation-liaison psychiatry | 4 | 64 | 64 | | | 0.1 | | | |
| Radiation oncology | 1 | 91 | | | | 91 | | | |
| Radiology-diagnostic | 1 | 196 | | | | 195 | 1 | | |
| - Abdominal radiology | 5 | 13 | 13 | | | | | | |
| - Endovascular surgical neuroradiology | 5 | 3 | 3 | | | | | | |
| - Musculoskeletal radiology | 5 | 20 | 20 | | | | | | |
| - Neuroradiology | 5 | 89 | 89 | | | | | | |
| - Nuclear radiology | 5 | 18 | 18 | | | | | | |
| - Pediatric radiology | 5 | 48 | 48 | | | | | | |
| Interventional radiology - independent | 4 | 95 | | 95 | | | | | |
| Interventional radiology - integrated | 1 | 92 | | | | | 92 | | |
| Surgery | 0 | 344 | | | | | 344 | | |
| - Complex general surgical oncology | 5 | 31 | | 31 | | | | | |
| - Hand surgery | 5 | 2 | 2 | | | | | | |
| - Pediatric surgery | 5 | 51 | | 51 | | | | | |
| - Surgical critical care | 3 | 145 | 145 | 01 | | | | | |
| - Vascular surgery | 5 | 115 | 110 | 115 | | | | | |
| Vascular surgery - integrated | 0 | 67 | | 110 | | | 67 | | |
| | | | | E 1 | 99 | | 07 | | |
| Thoracic surgery | 5 | 74 | 1.5 | 51 | 23 | | | | |
| - Congenital cardiac surgery | 7 | 15 | 15 | | | | | 0.2 | |
| Thoracic surgery - integrated | 0 | 33 | | | | | | 33 | |
| Urology | 0/1 | 145 | | | | | 145 | | |
| - Female pelvic medicine and reconstructive surgery | 3/4 | 15 | | | 15 | | | | |
| - Pediatric urology | 5 | 26 | 26 | | | | | | |
| Transitional year | 0 | 172 | 172 | | | | | | |
| Internal medicine/Pediatrics | 0 | 79 | | | | 79 | | | |

0.8%

0.4%

1.5%

0.4%

2.3%

0.4%

| 4.0 | | | | 10 |
|-----|----|-----|---|-----|
| | AR | 100 | Α | .12 |

Psychiatry

Surgery

Urology

Radiology-diagnostic

Internal medicine/Pediatrics

Note: Pipeline specialties are highlighted.

Transitional year

| Specialty | Total Programs | Programs with Osteopathic Recognition | Percent of Specialty | Percent of All Programs with Osteopathic Recognition |
|---|----------------|---------------------------------------|----------------------|--|
| OVERALL | 12,420 | 259 | 2.1% | 100.0% |
| TOTAL PIPELINE | 5,187 | 240 | 4.6% | 92.7% |
| Allergy and immunology | 82 | 1 | 1.2% | 0.4% |
| Anesthesiology | 161 | 4 | 2.5% | 1.5% |
| Dermatology | 144 | 4 | 2.8% | 1.5% |
| Emergency medicine | 276 | 7 | 2.5% | 2.7% |
| Family medicine | 710 | 156 | 22.0% | 60.2% |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 2 | 1.1% | 0.8% |
| - Sports medicine | 156 | 3 | 1.9% | 1.2% |
| Internal medicine | 586 | 33 | 5.6% | 12.7% |
| - Cardiovascular disease | 255 | 2 | 0.8% | 0.8% |
| - Geriatric medicine | 114 | 1 | 0.9% | 0.4% |
| - Interventional cardiology | 170 | 1 | 0.6% | 0.4% |
| - Medical oncology | 6 | 1 | 16.7% | 0.4% |
| - Pulmonary disease and critical care medicine | 188 | 1 | 0.5% | 0.4% |
| Neurological surgery | 116 | 1 | 0.9% | 0.4% |
| Neurology | 170 | 1 | 0.6% | 0.4% |
| Obstetrics and gynecology | 294 | 9 | 3.1% | 3.5% |
| Orthopaedic surgery | 201 | 5 | 2.5% | 1.9% |
| Osteopathic neuromusculoskeletal medicine | 28 | 3 | 10.7% | 1.2% |
| Otolaryngology - head and neck surgery | 125 | 3 | 2.4% | 1.2% |
| Pediatrics | 210 | 3 | 1.4% | 1.2% |
| - Sports medicine | 17 | 1 | 5.9% | 0.4% |
| Physical medicine and rehabilitation | 98 | 1 | 1.0% | 0.4% |
| Plastic surgery | 52 | 1 | 1.9% | 0.4% |

2

1

4

6

0.7%

0.5%

1.2%

0.7%

3.5%

1.3%

287

196

344

145

172

79

Program Accreditation

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 estimate for 2020, there are approximately 3.73 total programs (1.65 specialty, 2.08 subspecialty) per 100,000 population, including Puerto Rico. The following states have the highest total number of programs:

- New York (1,375)
- California (1,099)
- Texas (805)
- Pennsylvania (792)

States with the lowest number of programs include Montana (4), Wyoming (4), and Alaska (3). 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 (12.9%)
- Internal medicine (10.7%)
- Surgery (6.3%)
- Obstetrics and gynecology (5.4%)

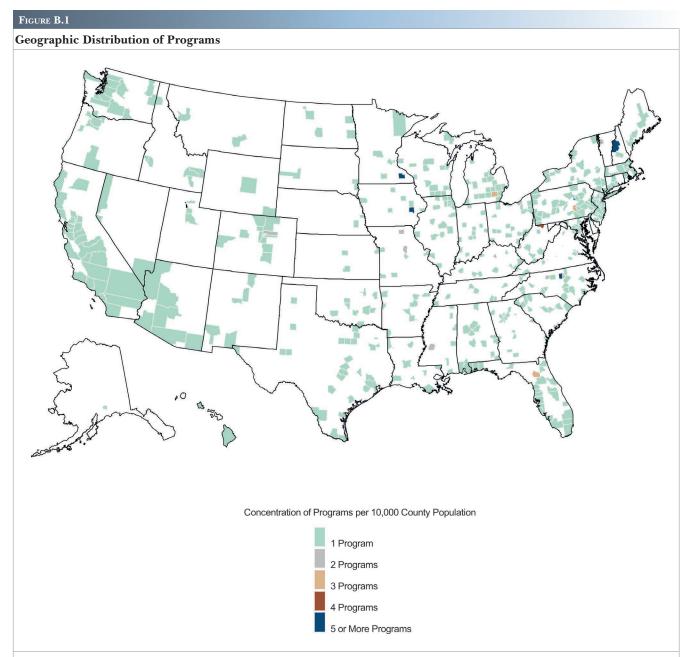
In contrast, the specialties with the highest percentage of total residents include:

- Internal medicine (24.4%)
- Family medicine (11.5%)
- Pediatrics (7.6%)
- Surgery (7.4%)

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 51 residents per program, with at least one program having 220 active residents during the 2020-2021 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 24 in the 2014-2015 academic year but has fallen to 22.5 in the 2020-2021 academic year. The average size of subspecialty programs has remained fairly constant over the last 10 years. In the 2020-2021 academic year, there were approximately 3.7 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, 45.0% of programs are in medical specialties, 31.5% are in surgical specialties, and 23.5% are in hospital-based specialties. Among subspecialty programs, 65.2% of programs are in medical subspecialties, 15.0% are in surgical subspecialties, and 19.8% are in hospital-based 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.



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, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/ datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021; SAS Enterprise Guide Software, Version 7.1.

TABLE R 9

| TABLE B.2 | | | | | | | |
|--|--------------------|--|----------------|-------------------------|--------------------------|--|--|
| Number of Programs and Program Concentration per 100,000 Population by State | | | | | | | |
| State Name | State Abbreviation | State Population – Census Estimate 2020 | Total Programs | Percent of All Programs | Programs per 100,000 Pop | | |
| OVERALL | _ | 332,643,466 | 12.420 | 100.0% | 3.73 | | |
| Alabama | AL | 4,921,532 | 143 | 1.2% | 2.91 | | |
| Alaska | AK | 731,158 | 3 | 0.0% | 0.41 | | |
| Arizona | AZ | 7,421,401 | 197 | 1.6% | 2.65 | | |
| Arkansas | AR | 3,030,522 | 89 | 0.7% | 2.94 | | |
| California | CA | 39,368,078 | 1,099 | 8.8% | 2.79 | | |
| Colorado | CO | 5,807,719 | 147 | 1.2% | 2.53 | | |
| Connecticut | CT | 3,557,006 | 199 | 1.6% | 5.59 | | |
| Delaware | DE | 986,809 | 39 | 0.3% | 3.95 | | |
| District of Columbia | DC | 712,816 | 146 | 1.2% | 20.48 | | |
| Florida | FL | | 648 | 5.2% | 2.98 | | |
| | | 21,733,312 | | | 2.90 | | |
| Georgia | GA | 10,710,017 | 238 | 1.9% | | | |
| Hawaii | HI | 1,407,006 | 33 | 0.3% | 2.35 | | |
| Idaho | ID | 1,826,913 | 15 | 0.1% | 0.82 | | |
| Illinois | IL | 12,587,530 | 544 | 4.4% | 4.32 | | |
| Indiana | IN | 6,754,953 | 132 | 1.1% | 1.95 | | |
| Iowa | IA | 3,163,561 | 104 | 0.8% | 3.29 | | |
| Kansas | KS | 2,913,805 | 73 | 0.6% | 2.51 | | |
| Kentucky | KY | 4,477,251 | 155 | 1.2% | 3.46 | | |
| Louisiana | LA | 4,645,318 | 183 | 1.5% | 3.94 | | |
| Maine | ME | 1,350,141 | 36 | 0.3% | 2.67 | | |
| Maryland | MD | 6,055,802 | 268 | 2.2% | 4.43 | | |
| Massachusetts | MA | 6,893,574 | 481 | 3.9% | 6.98 | | |
| Michigan | MI | 9,966,555 | 586 | 4.7% | 5.88 | | |
| Minnesota | MN | 5,657,342 | 232 | 1.9% | 4.10 | | |
| Mississippi | MS | 2,966,786 | 86 | 0.7% | 2.90 | | |
| Missouri | MO | 6,151,548 | 294 | 2.4% | 4.78 | | |
| Montana | MT | 1,080,577 | 4 | 0.0% | 0.37 | | |
| Nebraska | NE | 1,937,552 | 89 | 0.7% | 4.59 | | |
| Nevada | NV | 3,138,259 | 57 | 0.5% | 1.82 | | |
| New Hampshire | NH | 1,366,275 | 56 | 0.5% | 4.10 | | |
| New Jersey | NJ | 8,882,371 | 323 | 2.6% | 3.64 | | |
| New Mexico | NM | 2,106,319 | 72 | 0.6% | 3.42 | | |
| New York | NY | 19,336,776 | 1,375 | 11.1% | 7.11 | | |
| North Carolina | NC | 10,600,823 | 363 | 2.9% | 3.42 | | |
| North Dakota | ND | 765,309 | 15 | 0.1% | 1.96 | | |
| Ohio | ОН | 11,693,217 | 641 | 5.2% | 5.48 | | |
| Oklahoma | OK | 3,980,783 | 105 | 0.8% | 2.64 | | |
| Oregon | OR | 4,241,507 | 103 | 0.8% | 2.43 | | |
| Pennsylvania | PA | 12,783,254 | 792 | 6.4% | 6.20 | | |
| Puerto Rico | PR | 3,159,343 | 75 | 0.6% | 2.37 | | |
| Rhode Island | RI | 1,057,125 | 73 | 0.6% | 6.91 | | |
| South Carolina | SC | 5,218,040 | 152 | 1.2% | 2.91 | | |
| South Dakota | SD | 892,717 | 13 | 0.1% | 1.46 | | |
| Tennessee | TN | 6,886,834 | 237 | 1.9% | 3.44 | | |
| Texas | TX | 29,360,759 | 805 | 6.5% | 2.74 | | |
| Utah | UT | 3,249,879 | 96 | 0.8% | 2.74 | | |
| Vermont | VT | 623,347 | 40 | 0.8% | 6.42 | | |
| | | | | 2.2% | | | |
| Virginia | VA | 8,590,563 | 268 | | 3.12 | | |
| Washington | WA | 7,693,612 | 185 | 1.5% | 2.40 | | |
| West Virginia | WV | 1,784,787 | 93 | 0.7% | 5.21 | | |
| Wisconsin | WI | 5,832,655 | 214 | 1.7% | 3.67 | | |
| Wyoming | WY | 582,328 | 4 | 0.0% | 0.69 | | |

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, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021.

TABLE B.3

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Specialty Programs | Percent of All Specialty Programs | Specialty Programs per 100,000 Pop |
|------------------------|--------------------|--|--------------------------|--------------------------------------|---------------------------------------|
| OVERALL | _ | 332,643,466 | 5,486 | 100.0% | 1.65 |
| Alabama | AL | 4,921,532 | 65 | 1.2% | 1.32 |
| Alaska | AK | 731,158 | 1 | 0.0% | 0.14 |
| Arizona | AZ | 7,421,401 | 87 | 1.6% | 1.17 |
| Arkansas | AR | 3,030,522 | 51 | 0.9% | 1.68 |
| California | CA | 39,368,078 | 472 | 8.6% | 1.20 |
| Colorado | CO | 5,807,719 | 58 | 1.1% | 1.00 |
| Connecticut | CT | 3,557,006 | 76 | 1.4% | 2.14 |
| Delaware | DE | 986,809 | 18 | 0.3% | 1.82 |
| District of Columbia | DC | 712,816 | 54 | 1.0% | 7.58 |
| Florida | FL | 21,733,312 | 308 | 5.6% | 1.42 |
| Georgia | GA | 10,710,017 | 116 | 2.1% | 1.08 |
| Hawaii | HI | 1,407,006 | 21 | 0.4% | 1.49 |
| Idaho | ID | 1,826,913 | 11 | 0.2% | 0.60 |
| Illinois | IL | 12,587,530 | 244 | 4.4% | 1.94 |
| Indiana | IN | 6,754,953 | 58 | 1.1% | 0.86 |
| Iowa | IA | 3,163,561 | 44 | 0.8% | 1.39 |
| Kansas | KS | 2,913,805 | 37 | 0.7% | 1.27 |
| Kentucky | KY | 4,477,251 | 67 | 1.2% | 1.50 |
| Louisiana | LA | 4,645,318 | 92 | 1.7% | 1.98 |
| Maine | ME | 1,350,141 | 22 | 0.4% | 1.63 |
| Maryland | MD | 6,055,802 | 107 | 2.0% | 1.77 |
| Massachusetts | MA | 6,893,574 | 169 | 3.1% | 2.45 |
| | MI | | 315 | 5.7% | 3.16 |
| Michigan | MN | 9,966,555 | 72 | 1.3% | 1.27 |
| Minnesota Minnesota | MS | 5,657,342 2,966,786 | 44 | 0.8% | 1.48 |
| Mississippi | | | | 2.0% | 1.48 |
| Missouri | MO | 6,151,548 | 110 | | |
| Montana | MT | 1,080,577 | 3 38 | 0.1% | 0.28 1.96 |
| Nebraska | NE NV | 1,937,552 | 35 | 0.7% | |
| Nevada | | 3,138,259 | | 0.6% | 1.12 |
| New Hampshire | NH | 1,366,275 | 26 177 | 0.5% | 1.90 1.99 |
| New Jersey | NJ | 8,882,371 | | 3.2% | |
| New Mexico | NM | 2,106,319 | 28 | 0.5% | 1.33 |
| New York | NY | 19,336,776 | 579 | 10.6% | 2.99 |
| North Carolina | NC | 10,600,823 | 147 | 2.7% | 1.39 |
| North Dakota | ND | 765,309 | 12 | 0.2% | 1.57 |
| Ohio | OH | 11,693,217 | 289 | 5.3% | 2.47 |
| Oklahoma | OK OR | 3,980,783 | 61 | 1.1% | 1.53 |
| Oregon | OR | 4,241,507 | 42 | 0.8% | 0.99 |
| Pennsylvania | PA | 12,783,254 | 352 | 6.4% | 2.75 |
| Puerto Rico | PR | 3,159,343 | 45 | 0.8% | 1.42 |
| Rhode Island | RI | 1,057,125 | 24 | 0.4% | 2.27 |
| South Carolina | SC | 5,218,040 | 73 | 1.3% | 1.40 |
| South Dakota | SD | 892,717 | 9 | 0.2% | 1.01 |
| Tennessee | TN 6,886,834 | | 99 | 1.8% | 1.44 |
| Texas | TX 29,360,759 | | 335 | 6.1% | 1.14 |
| Utah | UT | 3,249,879 | 33 | 0.6% | 1.02 |
| Vermont | VT | 623,347 | 16 | 0.3% | 2.57 |
| Virginia | VA | 8,590,563 | 120 | 2.2% | 1.40 |
| Washington | WA | 7,693,612 | 86 | 1.6% | 1.12 |
| West Virginia | WV | 1,784,787 | 49 | 0.9% | 2.75 |
| Wisconsin | WI | 5,832,655 | 86 | 1.6% | 1.47 |
| Wyoming | WY | 582,328 | 3 | 0.1% | 0.52 |

| A DI | | |
|------|--|--|
| | | |

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Subspecialty Programs | Percent of All Subspecialty Programs | Subspecialty Programs per 100,000 Pop |
|----------------------|--------------------|--|--------------------------------|---|--|
| OVERALL | - | 332,643,466 | 6,934 | 100.0% | 2.08 |
| Alabama | AL | 4,921,532 | 78 | 1.1% | 1.58 |
| Alaska | AK | 731,158 | 2 | 0.0% | 0.27 |
| Arizona | AZ | 7,421,401 | 110 | 1.6% | 1.48 |
| Arkansas | AR | 3,030,522 | 38 | 0.5% | 1.25 |
| California | CA | 39,368,078 | 627 | 9.0% | 1.59 |
| Colorado | CO | 5,807,719 | 89 | 1.3% | 1.53 |
| Connecticut | CT | 3,557,006 | 123 | 1.8% | 3.46 |
| Delaware | DE | 986,809 | 21 | 0.3% | 2.13 |
| District of Columbia | DC | 712,816 | 92 | 1.3% | 12.91 |
| Florida | FL | 21,733,312 | 340 | 4.9% | 1.56 |
| Georgia | GA | 10,710,017 | 122 | 1.8% | 1.14 |
| Hawaii | HI | 1,407,006 | 12 | 0.2% | 0.85 |
| Idaho | ID | 1,826,913 | 4 | 0.1% | 0.22 |
| Illinois | IL | 12,587,530 | 300 | 4.3% | 2.38 |
| Indiana | IN | 6,754,953 | 74 | 1.1% | 1.10 |
| Iowa | IA | 3,163,561 | 60 | 0.9% | 1.90 |
| Kansas | KS | 2,913,805 | 36 | 0.5% | 1.90 |
| | KY | | 88 | | 1.24 |
| Kentucky | | 4,477,251 | | 1.3% | |
| Louisiana | LA | 4,645,318 | 91 | 1.3% | 1.96 |
| Maine | ME | 1,350,141 | 14 | 0.2% | 1.04 |
| Maryland | MD | 6,055,802 | 161 | 2.3% | 2.66 |
| Massachusetts | MA | 6,893,574 | 312 | 4.5% | 4.53 |
| Michigan | MI | 9,966,555 | 271 | 3.9% | 2.72 |
| Minnesota | MN | 5,657,342 | 160 | 2.3% | 2.83 |
| Mississippi | MS | 2,966,786 | 42 | 0.6% | 1.42 |
| Missouri | MO | 6,151,548 | 184 | 2.7% | 2.99 |
| Montana | MT | 1,080,577 | 1 | 0.0% | 0.09 |
| Nebraska | NE | 1,937,552 | 51 | 0.7% | 2.63 |
| Nevada | NV | 3,138,259 | 22 | 0.3% | 0.70 |
| New Hampshire | NH | 1,366,275 | 30 | 0.4% | 2.20 |
| New Jersey | NJ | 8,882,371 | 146 | 2.1% | 1.64 |
| New Mexico | NM | 2,106,319 | 44 | 0.6% | 2.09 |
| New York | NY | 19,336,776 | 796 | 11.5% | 4.12 |
| North Carolina | NC | 10,600,823 | 216 | 3.1% | 2.04 |
| North Dakota | ND | 765,309 | 3 | 0.0% | 0.39 |
| Ohio | OH | 11,693,217 | 352 | 5.1% | 3.01 |
| Oklahoma | OK | 3,980,783 | 44 | 0.6% | 1.11 |
| Oregon | OR | 4,241,507 | 61 | 0.9% | 1.44 |
| Pennsylvania | PA | 12,783,254 | 440 | 6.3% | 3.44 |
| Puerto Rico | PR | 3,159,343 | 30 | 0.4% | 0.95 |
| Rhode Island | RI | 1,057,125 | 49 | 0.7% | 4.64 |
| South Carolina | SC | 5,218,040 | 79 | 1.1% | 1.51 |
| South Dakota | SD | 892,717 | 4 | 0.1% | 0.45 |
| Tennessee | TN | 6,886,834 | 138 | 2.0% | 2.00 |
| Texas | TX | 29,360,759 | 470 | 6.8% | 1.60 |
| Utah | UT | 3,249,879 | 63 | 0.9% | 1.94 |
| Vermont | VT | 623,347 | 24 | 0.3% | 3.85 |
| Virginia | VA | 8,590,563 | 148 | 2.1% | 1.72 |
| Washington | WA | 7,693,612 | 99 | 1.4% | 1.29 |
| West Virginia | WV | 1,784,787 | 44 | 0.6% | 2.47 |
| Wisconsin | WI | 5,832,655 | 128 | 1.8% | 2.19 |
| Wyoming | WY | 582,328 | 1 | 0.0% | 0.17 |

TABLE B.5

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Pipeline Programs | Percent of All Pipeline Programs | Pipeline Programs per 100,000 Pop |
|------------------------|-----------------------------|--|-------------------------|-------------------------------------|--------------------------------------|
| OVERALL | _ | 332,643,466 | 5,187 | 100.0% | 1.56 |
| Alabama | AL | 4,921,532 | 61 | 1.2% | 1.24 |
| Alaska | AK | 731,158 | 1 | 0.0% | 0.14 |
| Arizona | AZ | 7,421,401 | 83 | 1.6% | 1.12 |
| Arkansas | AR | 3,030,522 | 48 | 0.9% | 1.58 |
| California | CA | 39,368,078 | 449 | 8.7% | 1.14 |
| Colorado | CO | 5,807,719 | 54 | 1.0% | 0.93 |
| Connecticut | CT | 3,557,006 | 73 | 1.4% | 2.05 |
| Delaware | DE | 986,809 | 17 | 0.3% | 1.72 |
| District of Columbia | DC | 712,816 | 55 | 1.1% | 7.72 |
| Florida | FL | 21,733,312 | 287 | 5.5% | 1.32 |
| Georgia | GA | 10,710,017 | 105 | 2.0% | 0.98 |
| Hawaii | HI | 1,407,006 | 20 | 0.4% | 1.42 |
| Idaho | ID | 1,826,913 | 11 | 0.2% | 0.60 |
| Illinois | IL | 12,587,530 | 233 | 4.5% | 1.85 |
| Indiana | IN | 6,754,953 | 53 | 1.0% | 0.78 |
| Iowa | IA | 3,163,561 | 41 | 0.8% | 1.30 |
| Kansas | KS | 2,913,805 | 36 | 0.7% | 1.24 |
| Kentucky | KY | 4,477,251 | 64 | 1.2% | 1.43 |
| Louisiana | LA | 4,645,318 | 86 | 1.7% | 1.85 |
| Maine | ME | 1,350,141 | 22 | 0.4% | 1.63 |
| Maryland | MD | 6,055,802 | 100 | 1.9% | 1.65 |
| Massachusetts | MA | 6,893,574 | 156 | 3.0% | 2.26 |
| Michigan | MI | 9,966,555 | 292 | 5.6% | 2.93 |
| Minnesota | MN | 5,657,342 | 68 | 1.3% | 1.20 |
| Mississippi | MS | 2,966,786 | 42 | 0.8% | 1.42 |
| Missouri | MO | 6,151,548 | 107 | 2.1% | 1.74 |
| Montana | MT | 1,080,577 | 3 | 0.1% | 0.28 |
| Nebraska | NE NE | 1,937,552 | 36 | 0.7% | 1.86 |
| Nevada | NV | 3,138,259 | 33 | 0.6% | 1.05 |
| New Hampshire | NH | 1,366,275 | 27 | 0.5% | 1.98 |
| New Jersey | NJ | 8,882,371 | 168 | 3.2% | 1.89 |
| New Mexico | NM | 2,106,319 | 28 | 0.5% | 1.33 |
| New York | NY | 19,336,776 | 549 | 10.6% | 2.84 |
| North Carolina | NC | 10,600,823 | 138 | 2.7% | 1.30 |
| North Dakota | ND | 765,309 | 11 | 0.2% | 1.44 |
| Ohio | OH | 11,693,217 | 270 | 5.2% | 2.31 |
| Oklahoma | OK | 3,980,783 | 61 | 1.2% | 1.53 |
| Oregon | OR | 4,241,507 | 41 | 0.8% | 0.97 |
| Pennsylvania | PA | 12,783,254 | 330 | 6.4% | 2.58 |
| Puerto Rico | PR | 3,159,343 | 40 | 0.8% | 1.27 |
| Rhode Island | RI | 1,057,125 | 24 | 0.5% | 2.27 |
| South Carolina | SC | 5,218,040 | 69 | 1.3% | 1.32 |
| South Dakota | | | 8 | 0.2% | 0.90 |
| Tennessee | | | 94 | 1.8% | 1.36 |
| Texas | TN 6,886,83 TX 29,360,75 | | 319 | 6.1% | 1.09 |
| Utah | UT | 3,249,879 | 31 | 0.6% | 0.95 |
| Vermont | VT | 623,347 | 17 | 0.3% | 2.73 |
| Virginia | VA | 8,590,563 | 114 | 2.2% | 1.33 |
| Virginia Washington | WA | 7,693,612 | 81 | 1.6% | 1.05 |
| West Virginia | WV | 1,784,787 | 47 | 0.9% | 2.63 |
| Wisconsin | WI | 5,832,655 | 81 | 1.6% | 1.39 |
| Wyoming | WY | 5,832,035 | 3 | 0.1% | 0.52 |

| TT '. 1 D 1 C | 1 L D | | 0 1 | 1.0 | | | | | | | | |
|----------------------|--------------|---------|----------|----------|-----|-----|-----|----|-----|-----|-----|-------|
| Hospital-Based Sp | State | rams by | Specialt | y and St | ate | | | | | | | |
| State Name | Abbreviation | AN | EM | MG | NM | PTH | GPM | RO | DR | IRI | TY | Total |
| OVERALL | - | 161 | 276 | 46 | 37 | 144 | 72 | 91 | 196 | 92 | 172 | 1,287 |
| Alabama | AL | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 3 | 1 | 2 | 17 |
| Alaska | AK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | AZ | 2 | 5 | 0 | 0 | 1 | 0 | 2 | 3 | 3 | 3 | 19 |
| Arkansas | AR | 1 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 3 | 11 |
| California | CA | 15 | 24 | 6 | 6 | 11 | 8 | 11 | 18 | 9 | 11 | 119 |
| Colorado | CO | 1 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 1 | 11 |
| Connecticut | CT | 2 | 2 | 1 | 0 | 3 | 2 | 1 | 6 | 1 | 1 | 19 |
| Delaware | DE | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 |
| District of Columbia | DC | 2 | 2 | 1 | 0 | 3 | 0 | 1 | 2 | 2 | 0 | 13 |
| Florida | FL | 12 | 20 | 1 | 1 | 8 | 3 | 4 | 10 | 4 | 16 | 79 |
| Georgia | GA | 2 | 5 | 1 | 1 | 2 | 3 | 1 | 3 | 2 | 7 | 27 |
| Hawaii | HI | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 3 |
| | ID | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 |
| Idaho Illinois | IL | | 12 | 0 | 1 | 6 | 0 2 | 4 | 11 | 4 | 7 | |
| | | 7 | | | | | | | | | | 54 |
| Indiana | IN | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 3 | 11 |
| Iowa | IA | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 10 |
| Kansas | KS | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 8 |
| Kentucky | KY | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 1 | 13 |
| Louisiana | LA | 4 | 4 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 18 |
| Maine | ME | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 5 |
| Maryland | MD | 3 | 2 | 2 | 3 | 4 | 5 | 3 | 3 | 2 | 2 | 29 |
| Massachusetts | MA | 9 | 5 | 1 | 1 | 7 | 3 | 2 | 10 | 5 | 6 | 49 |
| Michigan | MI | 7 | 26 | 2 | 1 | 5 | 2 | 4 | 10 | 4 | 17 | 78 |
| Minnesota | MN | 2 | 3 | 1 | 0 | 2 | 3 | 2 | 2 | 2 | 1 | 18 |
| Mississippi | MS | 1 | 3 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| Missouri | MO | 5 | 5 | 1 | 3 | 4 | 0 | 1 | 4 | 2 | 1 | 26 |
| Montana | MT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | NE | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 2 | 1 | 0 | 9 |
| Nevada | NV | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 8 |
| New Hampshire | NH | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 7 |
| New Jersey | NJ | 6 | 12 | 0 | 0 | 3 | 2 | 1 | 7 | 1 | 7 | 39 |
| New Mexico | NM | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 6 |
| New York | NY | 18 | 30 | 4 | 5 | 17 | 7 | 13 | 25 | 10 | 14 | 143 |
| North Carolina | NC | 3 | 7 | 2 | 1 | 4 | 2 | 3 | 3 | 3 | 5 | 33 |
| North Dakota | ND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Ohio | OH | 9 | 18 | 3 | 0 | 7 | 3 | 4 | 8 | 3 | 9 | 64 |
| Oklahoma | OK | 2 | 5 | 1 | 1 | 1 | 0 | 1 | 3 | 0 | 1 | 15 |
| Oregon | OR | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 8 |
| Pennsylvania | PA | 10 | 23 | 2 | 1 | 8 | 1 | 5 | 11 | 7 | 14 | 82 |
| | | | | | | | | | | | | |
| Puerto Rico | PR | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 4 | 10 |
| Rhode Island | RI | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 6 |
| South Carolina | SC | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 18 |
| South Dakota | SD | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 |
| Tennessee | TN | 3 | 4 | 1 | 1 | 4 | 2 | 2 | 4 | 1 | 1 | 23 |
| Texas | TX | 8 | 16 | 3 | 2 | 10 | 5 | 6 | 11 | 4 | 9 | 74 |
| Utah | UT | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| Vermont | VT | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 |
| Virginia | VA | 3 | 7 | 1 | 0 | 2 | 0 | 2 | 4 | 2 | 4 | 25 |
| Washington | WA | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 3 | 19 |
| West Virginia | WV | 1 | 2 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 9 |
| Wisconsin | WI | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 3 | 21 |
| Wyoming | WY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Abbreviations: AN, Anesthesiology; EM, Emergency medicine; MG, Medical genetics and genomics; NM, Nuclear medicine; PTH, Pathology-anatomic and clinical; GPM, Preventive medicine; RO, Radiation oncology; DR, Radiology-diagnostic; IRI, Interventional radiology - integrated; TY, Transitional year.

TABLE B.7

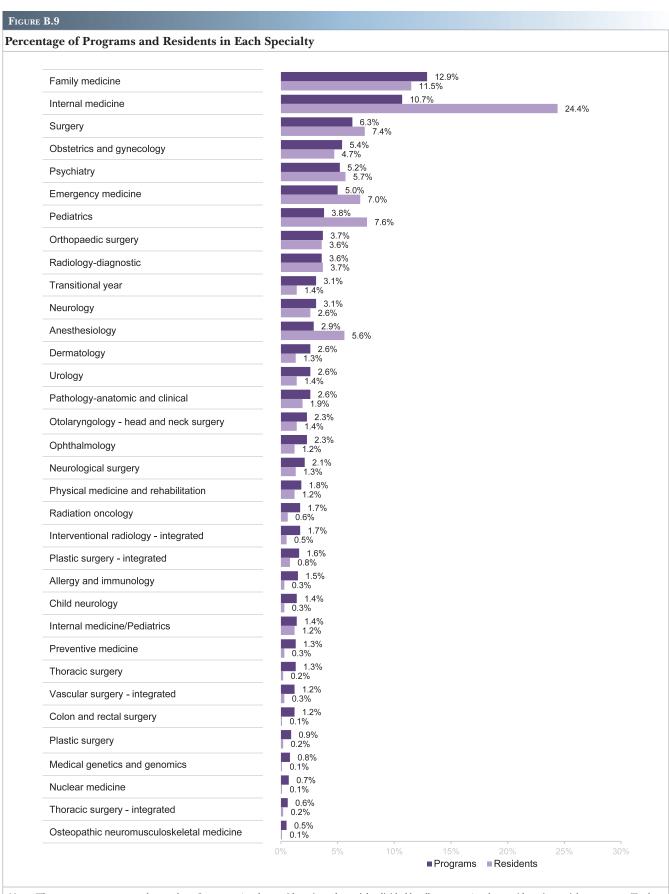
| g | State | | _ | | | | | 0.77 | | 200 | _ | ** | |
|----------------------|--------------|----|-----|-----|------|-----|-----|------|-----|-----|-----|----|-------|
| State Name | Abbreviation | AI | D | FM | IM | N | CHN | ONM | PD | PM | P | IP | Total |
| OVERALL | - | 82 | 144 | 710 | 586 | 170 | 77 | 28 | 210 | 98 | 287 | 79 | 2,471 |
| Alabama | AL | 1 | 1 | 10 | 9 | 2 | 1 | 0 | 2 | 1 | 2 | 2 | 31 |
| Alaska | AK | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Arizona | AZ | 2 | 5 | 11 | 10 | 4 | 1 | 1 | 3 | 1 | 3 | 1 | 42 |
| Arkansas | AR | 1 | 1 | 12 | 10 | 1 | 1 | 0 | 1 | 1 | 3 | 1 | 32 |
| California | CA | 10 | 12 | 70 | 49 | 16 | 7 | 0 | 17 | 6 | 26 | 4 | 217 |
| Colorado | CO | 3 | 1 | 14 | 4 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 31 |
| Connecticut | CT | 1 | 2 | 4 | 14 | 2 | 1 | 1 | 2 | 0 | 3 | 1 | 31 |
| Delaware | DE | 1 | 0 | 3 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 11 |
| District of Columbia | DC | 0 | 3 | 1 | 4 | 3 | 1 | 0 | 2 | 1 | 4 | 1 | 20 |
| Florida | FL | 4 | 11 | 31 | 41 | 13 | 2 | 2 | 13 | 7 | 21 | 2 | 147 |
| Georgia | GA | 2 | 3 | 18 | 16 | 2 | 2 | 0 | 5 | 1 | 6 | 0 | 55 |
| Hawaii | HI | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 10 |
| Idaho | ID | 0 | 0 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 11 |
| Illinois | IL | 2 | 7 | 35 | 26 | 8 | 2 | 0 | 10 | 4 | 12 | 5 | 111 |
| Indiana | IN | 1 | 1 | 14 | 5 | 1 | 1 | 0 | 2 | 1 | 4 | 1 | 31 |
| Iowa | IA | 1 | 1 | 8 | 4 | 1 | 1 | 0 | 2 | 0 | 3 | 0 | 21 |
| Kansas | KS | 1 | 1 | 4 | 3 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 15 |
| Kentucky | KY | 0 | 1 | 10 | 5 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 30 |
| Louisiana | LA | 3 | 2 | 10 | 8 | 4 | 1 | 0 | 4 | 1 | 4 | 3 | 40 |
| Maine | ME | 0 | 0 | 4 | 1 | 1 | 0 | 2 | 1 | 0 | 2 | 1 | 12 |
| Maryland | MD | 3 | 3 | 5 | 12 | 3 | 2 | 0 | 4 | 3 | 4 | 2 | 41 |
| Massachusetts | MA | 4 | 4 | 6 | 16 | 5 | 4 | 1 | 5 | 2 | 11 | 4 | 62 |
| Michigan | MI | 3 | 6 | 38 | 34 | 9 | 3 | 3 | 9 | 6 | 12 | 6 | 129 |
| Minnesota | MN | 1 | 3 | 11 | 4 | 2 | 1 | 0 | 2 | 2 | 3 | 1 | 30 |
| Mississippi | MS | 1 | 1 | 7 | 7 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 22 |
| Missouri | MO | 3 | 4 | 10 | 10 | 4 | 3 | 1 | 4 | 2 | 5 | 2 | 48 |
| Montana | MT | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Nebraska | NE | 1 | 1 | 5 | 2 | 2 | 0 | 0 | 1 | 1 | 2 | 1 | 16 |
| Nevada | NV | 0 | 0 | 7 | 4 | 2 | 0 | 0 | 1 | 1 | 3 | 0 | 18 |
| New Hampshire | NH | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 9 |
| New Jersey | NJ | 1 | 3 | 21 | 29 | 4 | 2 | 2 | 9 | 2 | 10 | 2 | 85 |
| New Mexico | NM | 0 | 1 | 7 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 16 |
| New York | NY | 9 | 13 | 39 | 63 | 16 | 10 | 2 | 32 | 16 | 37 | 5 | 242 |
| North Carolina | NC | 3 | 4 | 20 | 14 | 3 | 3 | 1 | 5 | 3 | 8 | 3 | 67 |
| North Dakota | ND | 0 | 0 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 9 |
| Ohio | OH | 5 | 8 | 36 | 33 | 8 | 4 | 2 | 9 | 6 | 11 | 4 | 126 |
| Oklahoma | OK | 0 | 1 | 13 | 4 | 1 | 0 | 1 | 4 | 0 | 4 | 2 | 30 |
| Oregon | OR | 0 | 2 | 8 | 6 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 22 |
| Pennsylvania | PA | 4 | 8 | 50 | 36 | 12 | 3 | 1 | 8 | 8 | 16 | 4 | 150 |
| Puerto Rico | PR | 1 | 1 | 4 | 8 | 1 | 1 | 0 | 4 | 2 | 2 | 1 | 25 |
| Rhode Island | RI | 0 | 1 | 1 | 4 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 10 |
| South Carolina | SC | 0 | 1 | 14 | 5 | 3 | 1 | 0 | 3 | 0 | 4 | 2 | 33 |
| South Dakota | SD | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 6 |
| | | | | | | | | - | - | | | | _ |
| Tennessee | TN | 2 | 2 | 11 | 8 34 | 2 | 2 | 0 | 12 | 6 | 5 | 3 | 39 |
| Texas | TX | 4 | 12 | 38 | | 13 | 4 | 1 | 13 | | 18 | | 146 |
| Utah | UT | 0 | 1 | 4 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 12 |
| Vermont | VT | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 6 |
| Virginia | VA | 2 | 5 | 15 | 11 | 3 | 2 | 2 | 6 | 3 | 6 | 1 | 56 |
| Washington | WA | 1 | 1 | 26 | 8 | 2 | 1 | 0 | 2 | 2 | 2 | 0 | 45 |
| West Virginia | WV | 0 | 1 | 8 | 4 | 2 | 0 | 1 | 3 | 0 | 3 | 2 | 24 |
| Wisconsin | WI | 1 | 3 | 18 | 5 | 2 | 2 | 0 | 3 | 2 | 4 | 2 | 42 |
| 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.

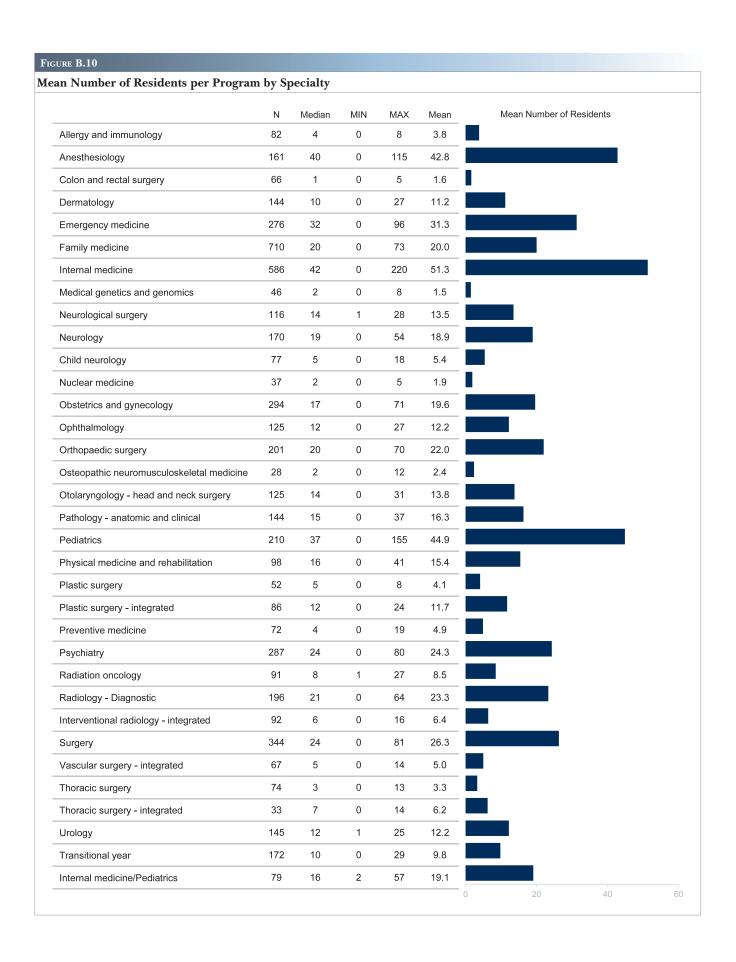
| | LADI | 10 1 | ٠.ر | , | | | | | | | | |
|---|------|------|-----|---|--|--|--|--|--|--|--|--|
| Г | | | | | | | | | | | | |

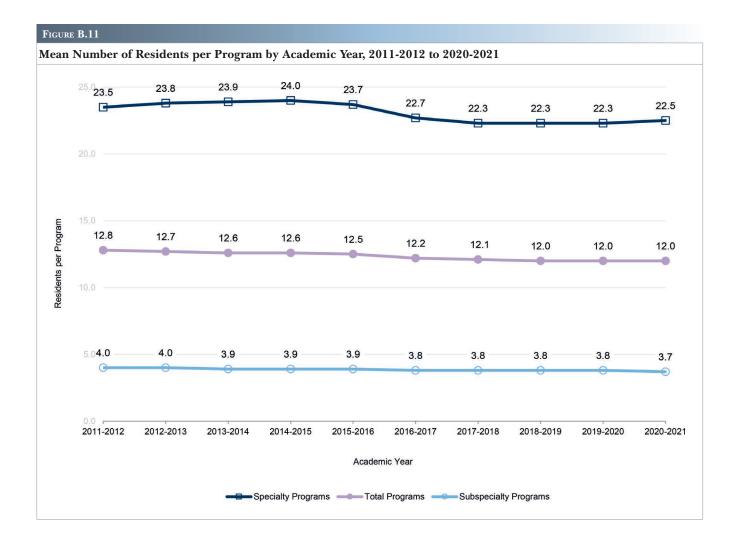
| Surgical Specialty 1 | Programs b | y Spec | ialty a | nd Stat | te | | | | | | | | | | |
|------------------------|-----------------------|--------|---------|---------|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-------|
| State Name | State Abbreviation | CRS | NS | OBG | ОРН | ORS | ото | PS | PSI | GS | VSI | TS | TSI | U | Total |
| OVERALL | - | 66 | 116 | 294 | 125 | 201 | 125 | 52 | 86 | 344 | 67 | 74 | 33 | 145 | 1,728 |
| Alabama | AL | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 0 | 1 | 17 |
| Alaska | AK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | AZ | 0 | 3 | 3 | 1 | 3 | 2 | 0 | 1 | 9 | 1 | 1 | 0 | 2 | 26 |
| Arkansas | AR | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 8 |
| California | CA | 3 | 10 | 21 | 10 | 16 | 11 | 4 | 8 | 23 | 7 | 8 | 4 | 11 | 136 |
| Colorado | CO | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 0 | 1 | 16 |
| Connecticut | CT | 1 | 2 | 6 | 1 | 2 | 2 | 0 | 1 | 6 | 1 | 1 | 1 | 2 | 26 |
| Delaware | DE | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| District of Columbia | DC | 1 | 2 | 3 | 3 | 3 | 2 | 0 | 1 | 3 | 1 | 0 | 0 | 2 | 21 |
| Florida | FL | 5 | 4 | 13 | 6 | 9 | 3 | 3 | 4 | 24 | 2 | 2 | 1 | 6 | 82 |
| Georgia | GA | 2 | 2 | 7 | 2 | 4 | 2 | 1 | 1 | 8 | 1 | 1 | 1 | 2 | 34 |
| 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 | 14 | 6 | 7 | 6 | 2 | 5 | 12 | 4 | 4 | 1 | 8 | 79 |
| Indiana | IN | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 16 |
| Iowa | IA | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 1 | 1 | 1 | 1 | 13 |
| 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 | 2 | 1 | 4 | 1 | 1 | 0 | 4 | 34 |
| Maine | ME | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 5 |
| Maryland | MD | 1 | 4 | 5 | 4 | 5 | 3 | 1 | 1 | 7 | 0 | 2 | 1 | 3 | 37 |
| Massachusetts | MA | 4 | 5 | 6 | 4 | 4 | 4 | 3 | 4 | 10 | 3 | 4 | 1 | 6 | 58 |
| Michigan | MI | 4 | 5 | 25 | 6 | 17 | 8 | 3 | 2 | 24 | 2 | 2 | 1 | 9 | 108 |
| Minnesota | MN | 2 | 2 | 23 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 0 | 2 | 24 |
| Mississippi | MS | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 11 |
| 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 | 0 | 2 | 0 | 1 | 0 | 2 | 13 |
| 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 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 10 |
| New Jersey | NJ | 1 | 1 | 15 | 1 | 8 | 2 | 2 | 2 | 13 | 2 | 1 | 0 | 5 | 53 |
| New Mexico | NM | 0 | 0 | 13 | 0 | 1 | 1 | 0 | 1 | 13 | 0 | 0 | 0 | 1 | 6 |
| New York | NY | 9 | 12 | 36 | 18 | 19 | 11 | 2 | 8 | 40 | 9 | 8 | 6 | 16 | 194 |
| North Carolina | NC | 0 | 4 | 9 | 3 | 4 | 3 | 1 | 3 | 9 | 2 | 3 | 2 | 4 | 47 |
| North Dakota | ND | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Ohio | OH | 4 | 4 | 15 | 6 | 16 | 8 | 3 | 5 | 20 | 5 | 4 | 3 | 6 | 99 |
| Oklahoma | OK | 0 | 1 | 5 | 1 | 9 | 9 | 1 | 0 | 3 | 0 | 0 | 0 | 1 | 16 |
| | OR | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 12 |
| Oregon Pennsylvania | PA | 6 | 8 | 18 | 8 | 16 | 9 | 5 | 5 | 25 | 5 | 5 | 2 | 8 | 120 |
| Puerto Rico | PR | 0 | 1 | 3 | 1 | 10 | 1 | 0 | 0 | 25 | 0 | 0 | 0 | 1 | 10 |
| Rhode Island | RI | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 8 |
| South Carolina | SC | | | | 2 | 3 | 1 | | 2 | 5 | 1 | 0 | | 1 | 22 |
| | | 1 | 1 | 3 | | | | 1 | | | | - | 1 | - | |
| 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 | 3 | 2 | 7 | 0 | 1 | 0 | 4 | 37 |
| Texas | TX | 3 | 7 | 23 | 9 | 13 | 8 | 4 | 4 | 21 | 5 | 6 | 2 | 10 | 115 |
| Utah | UT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 12 |
| Vermont | VT | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 6 |
| Virginia | VA | 0 | 4 | 7 | 3 | 3 | 4 | 1 | 4 | 6 | 1 | 2 | 1 | 3 | 39 |
| Washington | WA | 1 | 1 | 2 | 2 | 2 | 2 | 0 | 1 | 5 | 1 | 1 | 1 | 3 | 22 |
| West Virginia | WV | 0 | 1 | 3 | 1 | 2 | 1 | 0 | 1 | 3 | 1 | 1 | 0 | 2 | 16 |
| 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 |

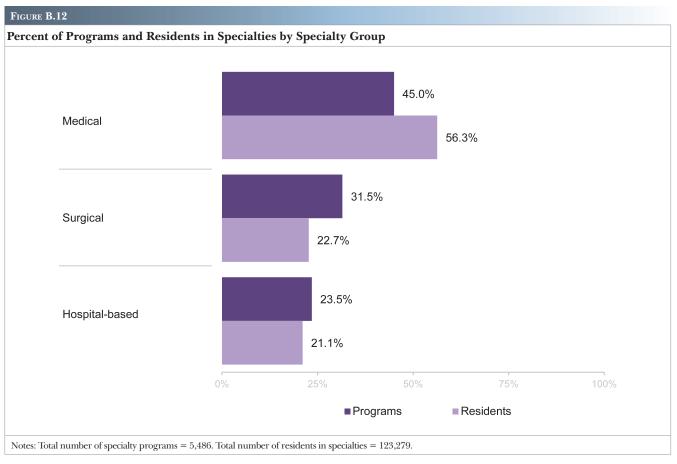
Abbreviations: CRS, Colon and rectal surgery; NS, Neurological surgery; OBG, Obstetrics and gynecology; OPH, Ophthalmology; ORS, Orthopaedic surgery; OTO, Otolaryngology - head and neck surgery; PS, Plastic surgery; PSI, Plastic surgery - integrated; GS, Surgery; VSI, Vascular surgery - integrated; TS,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

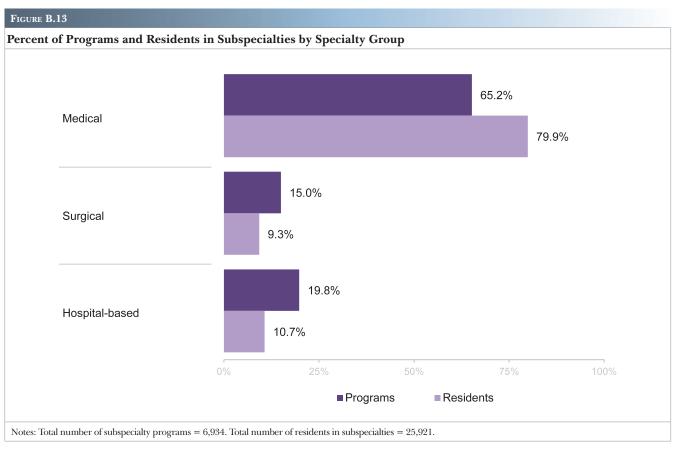


Notes: The percentages represent the number of programs/on duty residents in each specialty divided by all programs/on duty residents in specialty programs. Total number of specialty programs = 5,486. Total number of residents in specialties = 123,279.









Program Characteristics

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 2011-2012 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 (149,200), 123,279 (82.6%) are in specialty programs and 25,921 (17.4%) are in subspecialty programs. Only 0.2% (227) of the total number of active residents are part-time. In terms of trends, there has been a 29.4% increase in total active residents since 2011-2012, with growth in the number of specialty residents at 29.0%, and growth in the number of subspecialty residents at 31.3% over the last 10 years. Among residents in specialty programs, 56.3% (69,359) are in medical specialties, 21.1% (25,984) are in hospital-based specialties, and 22.7% (27,936) are in surgical specialties. The specialties with the highest percentage of total active residents are:

- Internal medicine (20.2%)
- Family medicine (9.5%)
- Pediatrics (6.3%)
- Surgery (6.1%)

Geographic Distribution

Based on the most recent US Census estimate for 2020, there are approximately 44.85 active residents (37.06 specialty, 7.79 subspecialty) per 100,000 population, including Puerto Rico. In line with the states that have the highest number of programs, the following states have the highest number of total active residents:

- New York (18,944)
- California (13,646)
- Texas (9,910)
- Pennsylvania (9,465)

Active Residents by Medical School Type

Of the 123,279 total active residents in specialty programs, 60.6% (74,724) are US allopathic medical school graduates, 21.2% (26,154) are international medical school graduates (IMGs), and 18.1% (22,336) are osteopathic medical school graduates. There are also 41 Canadian medical school graduates, and 24 residents for

whom medical school type was unknown. The distribution by medical school type is slightly different in subspecialty programs (25,921 active residents), with 56.4% of active residents being graduates of US allopathic medical schools, 31.6% being graduates of international medical schools, 11.6% 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 19.2% increase in US allopathic medical school graduates, a 183.5% increase in osteopathic medical school graduates, and a 10.2% increase in IMGs. The specialties with the highest percentage of IMGs include:

- Nuclear medicine (75.4%)
- Pathology anatomic and clinical (48.7%)
- Internal medicine (38.9%)
- Medical genetics and genomics (38.2%)

While internal medicine has the third-highest percentage of IMGs, this specialty accounts for the highest number of IMGs (11,714) among all specialty programs.

Active Residents by Gender and Race/Ethnicity

The gender and race/ethnicity reported for the 2020-2021 academic year are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC"). Of the 149,200 active residents, 53.4% are male, 45.5% are female, and 1.0% are not reported. The specialties with the highest percentage of female residents include:

- Obstetrics and gynecology (84.6%)
- Pediatrics (71.1%)
- Child neurology (68.7%)
- Allergy and immunology (61.9%)

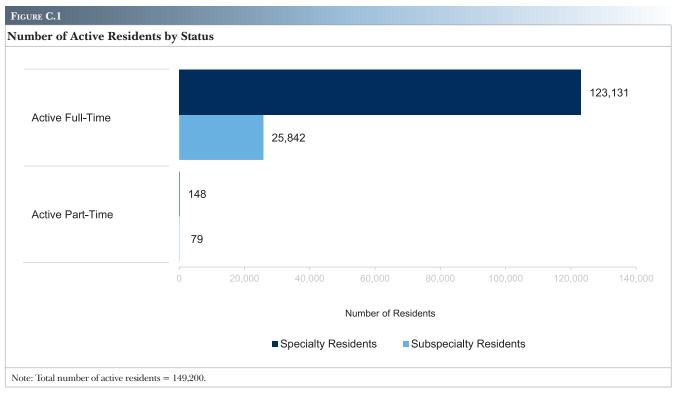
The specialties with the lowest percentage of female residents include:

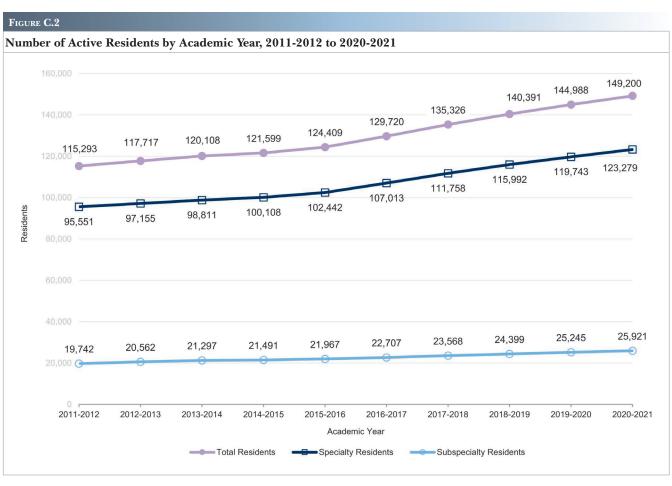
- Orthopaedic surgery (16.7%)
- Neurological surgery (20.4%)
- Interventional radiology integrated (22.0%)
- Thoracic surgery (25.5%)

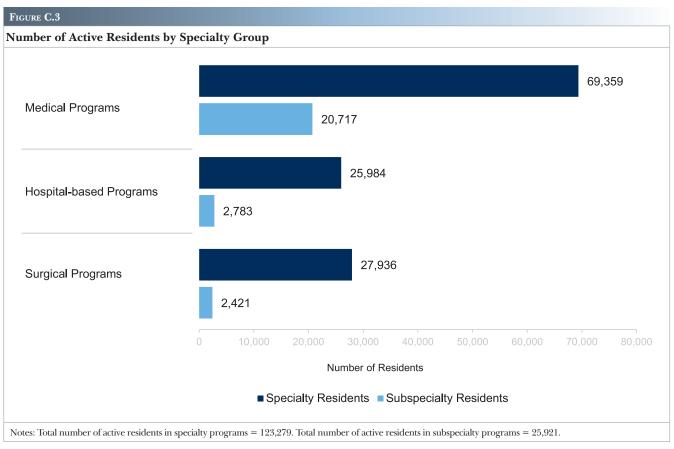
Overall, 49.6% of all active residents are White; 25.7% are Asian; 5.4% are Hispanic, Latino, or of Spanish origin; 5.6% are Black or African American; 0.1% are American Indian or Alaskan Native; and 0.04% are Native Hawaiian or Pacific Islander. Of all active residents, 6.9% were reported as having Multiple Race/Ethnicity. Of active residents, 2.7% were reported as "Other," and 4.0% were reported as "Unknown."

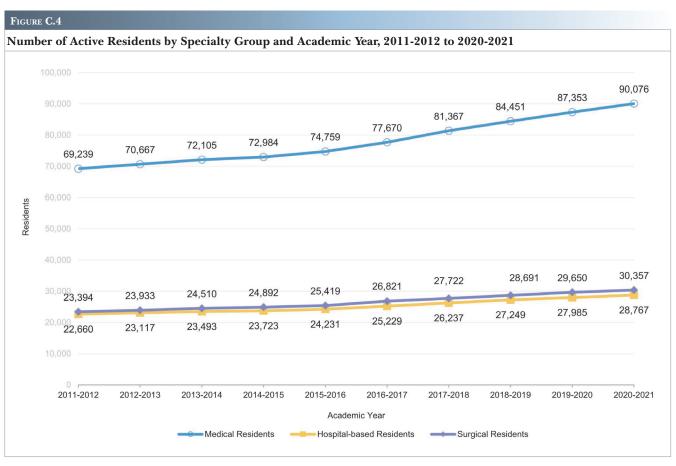
Residents Entering the Pipeline

The total number of residents entering the pipeline reached 34,754 for the 2020-2021 academic year. Since 2011-2012, there has been 30.0% increase in residents entering the pipeline, with varying patterns in growth by medical school type (16.3% increase among US Liaison Committee for Medical Education (LCME)-accredited medical school graduates, 12.5% increase among international medical graduates (IMGs), and 176.8% increase among osteopathic medical school graduates). Among the 2020-2021 residents entering the pipeline, 58.0% (20,159) are US LCME-accredited graduates, 22.4% (7,797) are IMGs, 19.5% (6,771) are osteopathic medical school graduates, and less than one percent (11) are Canadian medical school graduates. \wedge









| Number of Active Residents by Specialt | y and Sul | special | ty, Posi | tion Typ | pe, and | d Reside | nt Yea | r | | | |
|--|--------------------|---------|----------|----------|----------|----------|--------|--------|-------|-----|-----|
| | • | _ | | | <u> </u> | Resider | | | | | |
| | | 1 | | 2 | 2 | 3 | | 4 | 5 | 6 | 7 |
| | | Cat | Prel | Cat | Prel | Cat | Prel | Cat | Cat | Cat | Cat |
| Specialty | Total Residents | # | # | # | # | # | # | # | # | # | # |
| OVERALL | 149,200 | 50,742 | 3,470 | 41,841 | 280 | 37,269 | 1 | 11,478 | 3,507 | 401 | 211 |
| TOTAL PIPELINE | 121,110 | 34,754 | 3,470 | 34,298 | 280 | 32,716 | 1 | 11,472 | 3,507 | 401 | 211 |
| Allergy and immunology | 312 | 163 | 0,170 | 149 | 200 | 02,710 | • | 11,172 | 0,007 | 101 | 411 |
| Anesthesiology | 6,895 | 1,627 | | 1,896 | | 1,824 | | 1.548 | | | |
| - Adult cardiothoracic anesthesiology | 235 | 235 | | 1,030 | | 1,041 | | 1,510 | | | |
| - Clinical informatics | 1 | 200 | | 1 | | | | | | | |
| - Critical care medicine | 194 | 194 | | 1 | | | | | | | |
| Regional anesthesiology and acute pain medicine | 77 | 77 | | | | | | | | | |
| - Obstetric anesthesiology | 48 | 48 | | | | | | | | | |
| | | 400 | | | | | | | | | |
| - Pain medicine (multidisciplinary)- Pediatric anesthesiology | 400 | 185 | | | | | | | | | |
| | 185 | | | | | | | | | | |
| Colon and rectal surgery | 105 | 105 | | 700 | | F 40 | | | | | |
| Dermatology | 1,612 | 531 | | 533 | | 540 | | 8 | | | |
| - Dermatopathology (multidisciplinary) | 69 | 69 | | | | | | | | | |
| - Micrographic surgery and dermatologic oncology | 86 | 86 | | 0.555 | | | | 0.15 | | | |
| Emergency medicine | 8,642 | 2,780 | | 2,672 | | 2,545 | | 645 | | | |
| - Clinical informatics | 10 | 7 | | 3 | | | | | | | |
| - Emergency medical services | 86 | 86 | | | | | | | | | |
| - Medical toxicology | 79 | 42 | | 37 | | | | | | | |
| - Pediatric emergency medicine | 134 | 52 | | 42 | | 40 | | | | | |
| - Sports medicine | 16 | 16 | | | | | | | | | |
| - Undersea and hyperbaric medicine | 11 | 11 | | | | | | | | | |
| Family medicine | 14,225 | 4,925 | | 4,724 | | 4,538 | | 38 | | | |
| - Clinical informatics | 10 | 6 | | 4 | | | | | | | |
| - Geriatric medicine | 39 | 39 | | | | | | | | | |
| - Hospice and palliative medicine (multidisciplinary) | 401 | 401 | | | | | | | | | |
| - Sports medicine | 278 | 278 | | | | | | | | | |
| Internal medicine | 30,087 | 9,628 | 2,149 | 9,383 | 4 | 8,922 | 1 | | | | |
| - Adult congenital heart disease | 28 | 20 | , | 8 | | - / /- | | | | | |
| - Advanced heart failure and transplant cardiology | 101 | 101 | | | | | | | | | |
| - Cardiovascular disease | 3,240 | 1,135 | | 1,077 | | 1,028 | | | | | |
| - Clinical cardiac electrophysiology | 276 | 156 | | 120 | | 1,020 | | | | | |
| - Clinical informatics | 36 | 21 | | 15 | | | | | | | |
| - Critical care medicine | 280 | 170 | | 110 | | | | | | | |
| - Endocrinology, diabetes, and metabolism | 689 | 350 | | 339 | | | | | | | |
| - Gastroenterology | 1,844 | 642 | | 614 | | 588 | | | | | |
| - Geriatric medicine | 272 | 272 | | 014 | | 366 | | | | | |
| - Hematology | 18 | 10 | | 8 | | | | | | | |
| | | 668 | | 627 | | 600 | | | | | |
| - Hematology and medical oncology | 1,895 | | | | | 600 | | | | | |
| - Infectious disease | 763 | 396 | | 367 | | | | | | | |
| - Interventional cardiology | 355 | 355 | | 410 | | | | | | | |
| - Nephrology | 829 | 416 | | 413 | | | | | | | |
| - Medical oncology | 34 | 20 | | 14 | | | | | | | |
| - Pulmonary disease | 70 | 39 | | 31 | | | | | | | |
| - Pulmonary disease and critical care medicine | 2,085 | 729 | | 684 | | 672 | | | | | |
| - Rheumatology | 520 | 272 | | 248 | | | | | | | |
| - Sleep medicine (multidisciplinary) | 190 | 190 | | | | | | | | | |
| - Transplant hepatology | 47 | 47 | | | | | | | | | |
| Medical genetics and genomics | 68 | 32 | | 36 | | | | | | | |
| - Medical biochemical genetics | 14 | 14 | | | | | | | | | |
| - Molecular genetic pathology (multidisciplinary) | 57 | 57 | | | | | | | | | |
| Neurological surgery | 1,561 | 233 | | 234 | | 225 | | 218 | 217 | 223 | 211 |
| - Endovascular surgical neuroradiology | 1 | 1 | | | | | | | | | |
| <u> </u> | | | | | | | | | | | |

| Number of Active Residents by Specials | <u> </u> | _ | • | • • • | | Resider | | | | | |
|---|-----------|-------|------|-------|------|--------------|------|-------|-----|-----|-----|
| | | 1 | | 2 | | Resider 3 | | 4 | 5 | 6 | 7 |
| | | | | | | | | | - | | |
| | Total | Cat | Prel | Cat | Prel | Cat | Prel | Cat | Cat | Cat | Cat |
| Specialty | Residents | # | # | # | # | # | # | # | # | # | # |
| Neurology | 3,221 | 924 | | 908 | | 872 | | 517 | | | |
| - Brain injury medicine | 1 | 1 | | | | | | | | | |
| - Clinical neurophysiology | 143 | 143 | | | | | | | | | |
| - Epilepsy | 134 | 134 | | | | | | | | | |
| - Endovascular surgical neuroradiology | 3 | 3 | | | | | | | | | |
| - Neurodevelopmental disabilities | 26 | 8 | | 7 | | 5 | | 6 | | | |
| - Neuromuscular medicine | 74 | 74 | | | | | | | | | |
| - Vascular neurology | 162 | 162 | | | | | | | | | |
| Child neurology | 419 | 141 | | 145 | | 133 | | | | | |
| Nuclear medicine | 69 | 33 | | 22 | | 14 | | | | | |
| Obstetrics and gynecology | 5,769 | 1,481 | 18 | 1,448 | | 1,416 | | 1,406 | | | |
| - Female pelvic medicine and reconstructive surgery | 146 | 49 | | 51 | | 46 | | | | | |
| - Gynecologic oncology | 221 | 79 | | 72 | | 70 | | | | | |
| - Maternal-fetal medicine | 391 | 131 | | 133 | | 127 | | | | | |
| - Reproductive endocrinology and infertility | 166 | 57 | | 57 | | 52 | | | | | |
| - Complex family planning | 32 | 16 | | 16 | | | | | | | |
| Ophthalmology | 1,531 | 518 | | 510 | | 503 | | | | | |
| - Ophthalmic plastic and reconstructive surgery | 3 | 3 | | | | | | | | | |
| Orthopaedic surgery | 4,415 | 895 | | 890 | | 894 | | 875 | 861 | | |
| - Adult reconstructive orthopaedics | 50 | 50 | | | | | | | | | |
| - Foot and ankle orthopaedics | 17 | 17 | | | | | | | | | |
| - Hand surgery | 155 | 155 | | | | | | | | | |
| - Musculoskeletal oncology | 16 | 16 | | | | | | | | | |
| - Orthopaedic sports medicine | 211 | 211 | | | | | | | | | |
| - Orthopaedic surgery of the spine | 25 | 25 | | | | | | | | | |
| - Orthopaedic trauma | 20 | 20 | | | | | | | | | |
| - Pediatric orthopaedics | 34 | 34 | | | | | | | | | |
| Osteopathic neuromusculoskeletal medicine | 68 | 12 | | 21 | | 35 | | | | | |
| Otolaryngology - head and neck surgery | 1,723 | 348 | | 350 | | 343 | | 338 | 344 | | |
| - Neurotology | 36 | 18 | | 18 | | | | | | | |
| - Pediatric otolaryngology | 34 | 34 | | | | | | | | | |
| Pathology-anatomic and clinical | 2,346 | 606 | | 614 | | 597 | | 529 | | | |
| - Blood banking/transfusion medicine | 52 | 52 | | | | | | | | | |
| - Clinical informatics | 19 | 11 | | 8 | | | | | | | |
| - Chemical pathology | 0 | | | | | | | | | | |
| - Cytopathology | 127 | 127 | | | | | | | | | |
| - Forensic pathology | 49 | 49 | | | | | | | | | |
| - Hematopathology | 117 | 117 | | | | | | | | | |
| - Medical microbiology | 16 | 16 | | | | | | | | | |
| - Neuropathology | 53 | 27 | | 26 | | | | | | | |
| - Pediatric pathology | 21 | 21 | | | | | | | | | |
| - Selective pathology | 176 | 176 | | | | | | | | | |
| Pediatrics | 9,419 | 3,159 | 82 | 3,137 | 62 | 2,979 | | | | | |
| - Adolescent medicine | 97 | 36 | | 34 | | 27 | | | | | |
| - Child abuse pediatrics | 44 | 12 | | 16 | | 16 | | | | | |
| - Clinical informatics | 19 | 13 | | 6 | | | | | | | |
| - Developmental-behavioral pediatrics | 114 | 33 | | 42 | | 39 | | | | | |
| - Neonatal-perinatal medicine | 783 | 258 | | 268 | | 257 | | | | | |
| - Pediatric cardiology | 468 | 162 | | 160 | | 146 | | | | | |
| - Pediatric critical care medicine | 575 | 207 | | 198 | | 170 | | | | | |
| - Pediatric emergency medicine | 434 | 152 | | 154 | | 128 | | | | | |
| - Pediatric endocrinology | 230 | 86 | | 68 | | 76 | | | | | |
| - Pediatric gastroenterology | 329 | 110 | | 114 | | 105 | | | | | |

| TADIE | $\alpha +$ | 0 | 12.00 | 7 |
|-------|------------|---|-------|---|
| | | | | |

| | | | | | | Resider | nt Year | | | | |
|---|--------------------|-------|-------|-------|----------|---------|---------|-------|-------|-----|-----|
| | | 1 | | 2 | <u> </u> | 3 | | 4 | 5 | 6 | 7 |
| | m . 1 | Cat | Prel | Cat | Prel | Cat | Prel | Cat | Cat | Cat | Cat |
| Specialty | Total Residents | # | # | # | # | # | # | # | # | # | # |
| - Pediatric hematology/oncology | 475 | 160 | | 162 | | 153 | | | | | |
| - Pediatric infectious diseases | 175 | 68 | | 55 | | 52 | | | | | |
| - Pediatric nephrology | 120 | 49 | | 32 | | 39 | | | | | |
| - Pediatric pulmonology | 176 | 63 | | 60 | | 53 | | | | | |
| - Pediatric rheumatology | 88 | 33 | | 28 | | 27 | | | | | |
| - Sports medicine | 26 | 26 | | | | | | | | | |
| - Pediatric transplant hepatology | 11 | 11 | | | | | | | | | |
| - Pediatric hospital medicine | 115 | 71 | | 44 | | | | | | | |
| Physical medicine and rehabilitation | 1,510 | 422 | | 465 | | 442 | | 181 | | | |
| - Brain injury medicine | 1,310 | 17 | | 103 | | 114 | | 101 | | | |
| - Neuromuscular medicine | 1 | 1 | | | | | | | | | |
| - Spinal cord injury medicine | 19 | 19 | | | | | | | | | |
| - Spirial cord injury medicine - Pediatric rehabilitation medicine | 30 | 19 | | 16 | | | | | | | |
| - Sports medicine | 33 | 33 | | 10 | | | | | | | |
| - Sports medicine Plastic surgery | 214 | 66 | | 70 | | 78 | | | | | |
| | | 177 | | | | | | 160 | 150 | 150 | |
| Plastic surgery - integrated | 1,009 | | | 177 | | 178 | | 169 | 158 | 150 | |
| - Craniofacial surgery | 7 | 7 | | | | | | | | | |
| - Hand surgery | 23 | 23 | | 150 | | C | | | | | |
| Preventive medicine | 350 | 172 | | 172 | | 6 | | | | | |
| - Medical toxicology | 3 | 1 | | 2 | | | | | | | |
| - Undersea and hyperbaric medicine | 1 | 1 | | 1.000 | | 1 000 | | 1.000 | | | |
| Psychiatry | 6,976 | 1,964 | | 1,922 | | 1,808 | | 1,282 | | | |
| - Addiction medicine (multidisciplinary) | 129 | 129 | | - | | | | | | | |
| - Addiction psychiatry | 86 | 85 | | 1 | | | | | | | |
| - Child and adolescent psychiatry | 919 | 488 | | 431 | | | | | | | |
| - Forensic psychiatry | 80 | 80 | | | | | | | | | |
| - Geriatric psychiatry | 44 | 44 | | | | | | | | | |
| - Consultation-liaison psychiatry | 82 | 82 | | | | | | | | | |
| Radiation oncology | 773 | 202 | | 189 | | 191 | | 191 | | | |
| Radiology-diagnostic | 4,557 | 1,156 | | 1,141 | | 1,118 | | 1,135 | 7 | | |
| - Abdominal radiology | 46 | 46 | | | | | | | | | |
| - Endovascular surgical neuroradiology | 2 | 2 | | | | | | | | | |
| - Musculoskeletal radiology | 40 | 40 | | | | | | | | | |
| - Neuroradiology | 272 | 272 | | | | | | | | | |
| - Nuclear radiology | 7 | 7 | | | | | | | | | |
| - Pediatric radiology | 51 | 51 | | | | | | | | | |
| Interventional radiology - independent | 184 | 149 | | 35 | | | | | | | |
| Interventional radiology - integrated | 591 | 154 | | 137 | | 129 | | 91 | 80 | | |
| Surgery | 9,063 | 1,565 | 1,221 | 1,596 | 214 | 1,551 | | 1,493 | 1,423 | | |
| - Complex general surgical oncology | 120 | 61 | | 59 | | | | | | | |
| - Hand surgery | 7 | 7 | | | | | | | | | |
| - Pediatric surgery | 86 | 41 | | 45 | | | | | | | |
| - Surgical critical care | 299 | 299 | | | | | | | | | |
| - Vascular surgery | 255 | 131 | | 124 | | | | | | | |
| Vascular surgery - integrated | 332 | 76 | | 69 | | 66 | | 64 | 57 | | |
| Thoracic surgery | 243 | 104 | | 110 | | 29 | | | | | |
| - Congenital cardiac surgery | 11 | 11 | | | | | | | | | |
| Thoracic surgery - integrated | 203 | 35 | | 38 | | 38 | | 32 | 32 | 28 | |
| Urology | 1,768 | 360 | | 382 | | 353 | | 345 | 328 | | |
| - Female pelvic medicine and reconstructive surgery | 37 | 14 | | 15 | | 8 | | | | | |
| - Pediatric urology | 18 | 18 | | | | | | | | | |
| Transitional year | 1,693 | 1,693 | | | | | | | | | |
| Internal medicine/Pediatrics | 1,510 | 383 | | 382 | | 378 | | 367 | | | |

Note: Pipeline specialties are highlighted.
Abbreviations: Cat, categorical resident positions; Prel, preliminary resident positions.

| 'A DI | | |
|-------|--|--|
| | | |
| | | |

| Number of Active Residents by Specialt | | . , | | , , , , , , , | | | | |
|---|---------------|-----------|-----------|---------------|-----------|--------|--------|--|
| | Academic Year | | | | | | | |
| | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 5-Year | Change | |
| Specialty | # | # | # | # | # | # | % | |
| OVERALL | 129,720 | 135,326 | 140,391 | 144,988 | 149,200 | 19,480 | 15.09 | |
| TOTAL PIPELINE | 105,297 | 109,822 | 113,823 | 117,496 | 121,110 | 15,813 | 15.09 | |
| Allergy and immunology | 287 | 296 | 304 | 308 | 312 | 25 | 8.79 | |
| Anesthesiology | 6,207 | 6,346 | 6,507 | 6,698 | 6,895 | 688 | 11.19 | |
| - Adult cardiothoracic anesthesiology | 193 | 207 | 215 | 220 | 235 | 42 | 21.8 | |
| - Clinical informatics | 1 | 2 | 1 | 1 | 1 | 0 | 0.0 | |
| - Critical care medicine | 183 | 181 | 182 | 191 | 194 | 11 | 6.0 | |
| - Regional anesthesiology and acute pain medicine * | 20 | 48 | 58 | 72 | 77 | 57 | 285.0 | |
| - Obstetric anesthesiology | 39 | 39 | 44 | 38 | 48 | 9 | 23.1 | |
| - Pain medicine (multidisciplinary) | 354 | 361 | 372 | 386 | 400 | 46 | 13.0 | |
| - Pediatric anesthesiology | 205 | 205 | 199 | 192 | 185 | -20 | -9.8 | |
| Colon and rectal surgery | 95 | 97 | 101 | 106 | 105 | 10 | 10.5 | |
| Dermatology | 1,424 | 1,517 | 1,563 | 1,594 | 1,612 | 188 | 13.2 | |
| - Dermatopathology (multidisciplinary) | 71 | 72 | 67 | 69 | 69 | -2 | -2.8 | |
| - Micrographic surgery and dermatologic oncology | 83 | 83 | 82 | 88 | 86 | 3 | 3.6 | |
| Emergency medicine | 6,885 | 7,461 | 7,940 | 8,293 | 8,642 | 1,757 | 25.5 | |
| - Clinical informatics | 4 | 7,401 | 5 | 10 | 10 | 6 | 150.0 | |
| - Emergency medical services | 62 | 46 | 62 | 87 | 86 | 24 | 38.7 | |
| - Medical toxicology | 63 | 63 | 72 | 72 | 79 | 16 | 25.4 | |
| - Pediatric emergency medicine | 113 | 119 | 129 | 134 | 134 | 21 | 18.6 | |
| - Sports medicine | 113 | 16 | 16 | 17 | 16 | 21 | 14.3 | |
| | 13 | 8 | 9 | 10 | 11 | -2 | | |
| - Undersea and hyperbaric medicine | | | | | | | -15.4 | |
| Family medicine | 11,277 | 12,161 | 13,116 | 13,725 | 14,225 | 2,948 | 26.1 | |
| - Clinical informatics | 7 | 8 | 12 | 10 | 10 | 3 | 42.9 | |
| - Geriatric medicine | 44 | 41 | 46 | 38 | 39 | -5 | -11.4 | |
| - Hospice and palliative medicine (multidisciplinary) | 304 | 333 | 355 | 374 | 401 | 97 | 31.9 | |
| - Sports medicine | 217 | 229 | 239 | 261 | 278 | 61 | 28.1 | |
| Internal medicine | 26,301 | 27,647 | 28,420 | 29,243 | 30,087 | 3,786 | 14.4 | |
| - Adult congenital heart disease | 15 | 14 | 25 | 25 | 28 | 13 | 86.7 | |
| - Advanced heart failure and transplant cardiology | 94 | 98 | 105 | 109 | 101 | 7 | 7.4 | |
| - Cardiovascular disease | 2,746 | 2,918 | 3,017 | 3,105 | 3,240 | 494 | 18.0 | |
| - Clinical cardiac electrophysiology | 142 | 185 | 259 | 255 | 276 | 134 | 94.4 | |
| - Clinical informatics | 19 | 34 | 36 | 36 | 36 | 17 | 89.5 | |
| - Critical care medicine | 217 | 238 | 253 | 264 | 280 | 63 | 29.0 | |
| - Endocrinology, diabetes, and metabolism | 624 | 645 | 660 | 675 | 689 | 65 | 10.4 | |
| - Gastroenterology | 1,565 | 1,656 | 1,741 | 1,792 | 1,844 | 279 | 17.8 | |
| - Geriatric medicine | 260 | 274 | 258 | 261 | 272 | 12 | 4.6 | |
| - Hematology | 15 | 16 | 18 | 17 | 18 | 3 | 20.0 | |
| - Hematology and medical oncology | 1,713 | 1,745 | 1,776 | 1,843 | 1,895 | 182 | 10.6 | |
| - Infectious disease | 694 | 715 | 760 | 762 | 763 | 69 | 9.9 | |
| - Interventional cardiology | 315 | 318 | 339 | 350 | 355 | 40 | 12.7 | |
| - Nephrology | 844 | 808 | 805 | 828 | 829 | -15 | -1.8 | |
| - Medical oncology | 34 | 34 | 39 | 35 | 34 | 0 | 0.0 | |
| - Pulmonary disease | 74 | 73 | 70 | 73 | 70 | -4 | -5.4 | |
| - Pulmonary disease and critical care medicine | 1,702 | 1,812 | 1,898 | 1,999 | 2,085 | 383 | 22.5 | |
| - Rheumatology | 458 | 477 | 503 | 515 | 520 | 62 | 13.5 | |
| Sleep medicine (multidisciplinary) | 163 | 164 | 177 | 182 | 190 | 27 | 16.6 | |
| - Transplant hepatology | 39 | 46 | 47 | 52 | 47 | 8 | 20.5 | |
| Medical genetics and genomics | 71 | 70 | 69 | 60 | 68 | -3 | -4.2 | |
| - Medical biochemical genetics | 9 | 12 | 14 | 16 | 14 | 5 | 55.6 | |
| - Molecular genetic pathology (multidisciplinary) | 53 | 56 | 61 | 56 | 57 | 4 | 7.5 | |
| | | | | | | | | |
| Neurological surgery - Endovascular surgical neuroradiology | 1,375 1 | 1,408 | 1,462 | 1,515 1 | 1,561 | 186 | 0.09 | |

Table C.6 Continued

| | | | Academic Year | | | | |
|---|-------------------------------|------------|---------------------|------------|---------------|-----------|----------------|
| | 2016-2017 2017-2018 2018-2019 | | 2019-2020 2020-2021 | | 5-Year Change | | |
| Specialty | # | # | # | # | # | # | % |
| Neurology | 2,544 | 2,750 | 2,893 | 3,062 | 3,221 | 677 | 26.69 |
| Brain injury medicine * | | 1 | 1 | 1 | 1 | 0 | 0.09 |
| - Clinical neurophysiology | 169 | 171 | 163 | 163 | 143 | -26 | -15.49 |
| · Epilepsy | 74 | 101 | 112 | 126 | 134 | 60 | 81.19 |
| - Endovascular surgical neuroradiology | 2 | 1 | 1 | 2 | 3 | 1 | 50.09 |
| - Neurodevelopmental disabilities | 27 | 28 | 25 | 24 | 26 | -1 | -3.79 |
| Neuromuscular medicine | 60 | 55 | 67 | 73 | 74 | 14 | 23.39 |
| · Vascular neurology | 126 | 115 | 129 | 128 | 162 | 36 | 28.69 |
| Child neurology | 360 | 373 | 383 | 401 | 419 | 59 | 16.49 |
| Nuclear medicine | 74 | 71 | 75 | 78 | 69 | -5 | -6.89 |
| Obstetrics and gynecology | 5,372 | 5,473 | 5,571 | 5,677 | 5,769 | 397 | 7.49 |
| - Female pelvic medicine and reconstructive surgery | 139 | 142 | 145 | 149 | 146 | 7 | 5.09 |
| Gynecologic oncology * | 172 | 187 | 197 | 210 | 221 | 49 | 28.59 |
| - Maternal-fetal medicine * | 268 | 322 | 350 | 368 | 391 | 123 | 45.99 |
| Reproductive endocrinology and infertility * | 120 | 160 | 163 | 167 | 166 | 46 | 38.39 |
| · Complex family planning * | | | | | 32 | N/A | N/A |
| Ophthalmology | 1,446 | 1,474 | 1,473 | 1,512 | 1,531 | 85 | 5.99 |
| Ophthalmic plastic and reconstructive surgery | 6 | 5 | 5 | 3 | 3 | -3 | -50.09 |
| Orthopaedic surgery | 3,760 | 3,941 | 4,125 | 4,342 | 4,415 | 655 | 17.49 |
| Adult reconstructive orthopaedics | 41 | 40 | 47 | 46 | 50 | 9 | 22.0 |
| Foot and ankle orthopaedics | 15 | 14 | 15 | 16 | 17 | 2 | 13.39 |
| Hand surgery | 146 | 151 | 154 | 154 | 155 | 9 | 6.29 |
| Musculoskeletal oncology | 16 | 17 | 14 | 17 | 16 | 0 | 0.09 |
| Orthopaedic sports medicine | 217 | 204 | 205 | 215 | 211 | -6 | -2.89 |
| Orthopaedic surgery of the spine | 32 | 32 | 28 | 34 | 25 | <u>7</u> | -21.9 |
| Orthopaedic trauma | 14 | 18 | 19 | 20 | 20 | 6 | 42.9 |
| Pediatric orthopaedics | 38 | 39 | 37 | 37 | 34 | -4 | -10.59 |
| Osteopathic neuromusculoskeletal medicine | 8 | 21 | 34 | 53 | 68 | 60 | 750.09 |
| Otolaryngology - head and neck surgery | 1,541 | 1,592 | 1,651 | 1,689 | 1,723 | 182 | 11.89 |
| Neurotology | 28 | 29 | 32 | 35 | 36 | 8 | 28.69 |
| - Pediatric otolaryngology | 33 | 34 | 35 | 36 | 34 | 1 | 3.0 |
| Pathology-anatomic and clinical | 2,334 | 2,341 | 2,329 | 2,324 | 2,346 | 12 | 0.59 |
| · Blood banking/transfusion medicine | 47 | 49 | 57 | 50 | 52 | 5 | 10.69 |
| - Clinical informatics | 10 | 11 | 9 | 16 | 19 | 9 | 90.0 |
| Chemical pathology | 10 | 1 | 1 | 2 | 19 | N/A | N/A |
| - Cytopathology | 139 | 138 | 134 | 125 | 127 | -12 | -8.6° |
| - Cytopathology - Forensic pathology | 46 | 43 | 134 | 54 | 49 | 3 | 6.59 |
| Hematopathology | 132 | 125 | 131 | 135 | 117 | -15 | -11.49 |
| Medical microbiology | 132 | 125 | 12 | 9 | 16 | -15 4 | 33.30 |
| | 55 | 48 | 50 | 59 | 53 | -2 | |
| - Neuropathology - Pediatric pathology | 23 | 17 | 23 | 23 | 21 | -2 -2 | -3.69 |
| 1 0, | 154 | | 166 | 167 | 176 | -2 22 | -8.79 |
| Selective pathology | | 168 | | | | | 14.39 |
| Pediatrics | 9,063 | 9,159 | 9,221 | 9,323 | 9,419 | 356 | 3.9 |
| Adolescent medicine | 89 | 88 | 87 | 94 | 97 | 8 | 9.09 |
| Child abuse pediatrics | 35 | 34 | 38 | 47 | 10 | 9 | 25.79 |
| Clinical informatics | 9 | 10 | 12 | 15 | 19 | 10 | 111.19 |
| Developmental-behavioral pediatrics | 92 | 108 | 102 | 119 | 114 | 22 | 23.9 |
| Neonatal-perinatal medicine | 759 | 759 | 761 | 772 | 783 | 24 | 3.29 |
| - Pediatric cardiology | 432 | 434 | 444 | 457 | 468 | 36 | 8.39 |
| Pediatric critical care medicine | 507 | 518 | 534 | 557 | 575 | 68 | 13.49 |
| Pediatric emergency medicine | 385 | 392 | 408 | 424 | 434 | 49 | 12.79 |
| - Pediatric endocrinology - Pediatric gastroenterology | 243 290 | 241 300 | 241 311 | 227 322 | 230 329 | -13 39 | -5.39 13.49 |

Table C.6 Continued

| Number of Active Residents | y Specialty a | nd Subspecialty and Aca | demic Year, 2016-2017 to 2020-2021 |
|----------------------------|---------------|-------------------------|------------------------------------|
|----------------------------|---------------|-------------------------|------------------------------------|

| 9 | | Academic Year | | | | | |
|--|-----------|---------------|-----------|-----------|-----------|--------|--------|
| - | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 5-Year | Change |
| Specialty | # | # | # | # | # | # | % |
| - Pediatric hematology/oncology | 488 | 501 | 484 | 485 | 475 | -13 | -2.79 |
| - Pediatric infectious diseases | 164 | 171 | 177 | 169 | 175 | 11 | 6.79 |
| - Pediatric nephrology | 102 | 101 | 116 | 110 | 120 | 18 | 17.69 |
| - Pediatric pulmonology | 167 | 158 | 162 | 168 | 176 | 9 | 5.49 |
| - Pediatric rheumatology | 81 | 86 | 91 | 90 | 88 | 7 | 8.69 |
| · Sports medicine | 23 | 26 | 26 | 26 | 26 | 3 | 13.09 |
| - Pediatric transplant hepatology | 8 | 12 | 9 | 10 | 11 | 3 | 37.59 |
| Pediatric hospital medicine * | | | | 71 | 115 | 44 | 62.09 |
| Physical medicine and rehabilitation | 1,324 | 1,351 | 1,395 | 1,453 | 1,510 | 186 | 14.09 |
| Brain injury medicine | 9 | 13 | 17 | 18 | 17 | 8 | 88.9 |
| Neuromuscular medicine | | 10 | 1 | 1 | 1 | 0 | 0.09 |
| Spinal cord injury medicine | 16 | 21 | 20 | 21 | 19 | 3 | 18.89 |
| Pediatric rehabilitation medicine | 26 | 27 | 38 | 38 | 30 | 4 | 15.49 |
| Sports medicine | 22 | 28 | 30 | 32 | 33 | 11 | 50.09 |
| Plastic surgery | 316 | 266 | 243 | 226 | 214 | -102 | -32.39 |
| Plastic surgery Plastic surgery - integrated | 748 | 829 | 901 | 961 | 1,009 | 261 | 34.9 |
| | 9 | 4 | 8 | 5 | 7 | -2 | -22.29 |
| Craniofacial surgery | 24 | 23 | 22 | 23 | 23 | | |
| Hand surgery | | | | | | -1 | -4.2 |
| Preventive medicine | 353 | 351 | 357 | 347 | 350 | -3 | -0.8 |
| - Medical toxicology | 5 | 4 | 4 | 4 | 3 | -2 | -40.0 |
| Undersea and hyperbaric medicine | 3 | 2 | 2 | 1 | 1 | -2 | -66.7 |
| Psychiatry | 5,619 | 5,907 | 6,247 | 6,618 | 6,976 | 1,357 | 24.2 |
| - Addiction medicine (multidisciplinary) * | | | 39 | 79 | 129 | 90 | 230.8 |
| - Addiction psychiatry | 77 | 74 | 83 | 78 | 86 | 9 | 11.7 |
| - Child and adolescent psychiatry | 840 | 865 | 869 | 889 | 919 | 79 | 9.4 |
| Forensic psychiatry | 63 | 79 | 66 | 80 | 80 | 17 | 27.0 |
| - Geriatric psychiatry | 56 | 53 | 52 | 42 | 44 | -12 | -21.4 |
| - Consultation-liaison psychiatry | 80 | 86 | 71 | 86 | 82 | 2 | 2.5 |
| Radiation oncology | 749 | 767 | 774 | 771 | 773 | 24 | 3.2 |
| Radiology-diagnostic | 4,769 | 4,760 | 4,671 | 4,551 | 4,557 | -212 | -4.4 |
| - Abdominal radiology | 46 | 44 | 41 | 49 | 46 | 0 | 0.0 |
| - Endovascular surgical neuroradiology | 6 | 6 | 5 | 5 | 2 | -4 | -66.7 |
| - Musculoskeletal radiology | 33 | 32 | 32 | 35 | 40 | 7 | 21.2 |
| - Neuroradiology | 265 | 269 | 259 | 280 | 272 | 7 | 2.6 |
| - Nuclear radiology | 12 | 11 | 11 | 12 | 7 | -5 | -41.7 |
| - Pediatric radiology | 65 | 55 | 55 | 58 | 51 | -14 | -21.5 |
| Interventional radiology - independent * | | | | | 184 | N/A | N/A |
| Interventional radiology - integrated | 13 | 60 | 246 | 424 | 591 | 578 | 4446.2 |
| Surgery | 8,184 | 8,475 | 8,844 | 8,809 | 9,063 | 879 | 10.7 |
| - Complex general surgical oncology | 105 | 107 | 111 | 115 | 120 | 15 | 14.3 |
| - Hand surgery | 8 | 8 | 8 | 8 | 7 | -1 | -12.5 |
| - Pediatric surgery | 83 | 80 | 83 | 85 | 86 | 3 | 3.6 |
| - Surgical critical care | 248 | 253 | 284 | 290 | 299 | 51 | 20.6 |
| · Vascular surgery | 241 | 246 | 248 | 244 | 255 | 14 | 5.8 |
| Vascular surgery - integrated | 260 | 272 | 292 | 309 | 332 | 72 | 27.7 |
| Thoracic surgery | 224 | 223 | 232 | 236 | 243 | 19 | 8.5 |
| Congenital cardiac surgery | 5 | 9 | 8 | 8 | 11 | 6 | 120.0 |
| Congenital cardiac surgery Γhoracic surgery - integrated | 161 | 183 | 189 | 193 | 203 | 42 | 26.1 |
| | | | | | | | |
| Urology | 1,276 | 1,304 | 1,331 | 1,734 | 1,768 | 492 | 38.6 |
| - Female pelvic medicine and reconstructive surgery | 29 | 34 | 37 | 35 | 37 | 8 | 27.6 |
| - Pediatric urology | 25 | 24 | 20 | 20 | 18 | -7 | -28.09 |
| Transitional year | 1,110 | 1,320 | 1,532 | 1,597 | 1,693 | 583 | 52.59 |
| Internal medicine/Pediatrics | 1,483 | 1,492 | 1,501 | 1,511 | 1,510 | 27 | 1.8 |

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.

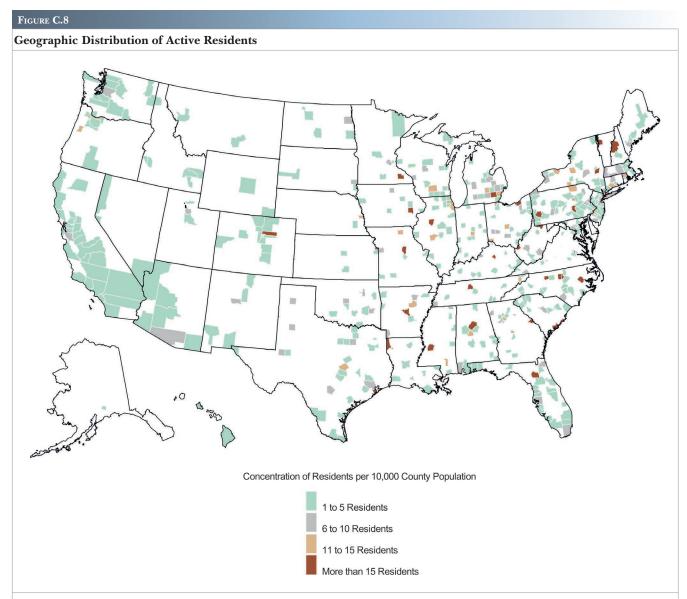
| Table C.7 | | | | | | | |
|---|------------------|----------------------------------|--|---------------------------------------|--|--|--|
| Number of Active Part-Time Residents by | Specialty and Su | bspecialty | | | | | |
| Specialty | Total Residents | Number of Part-Time Residents | Percent of All Residents in Specialty | Percent of All Part-Time Residents | | | |
| OVERALL | 149,200 | 227 | 0.2% | 100.0% | | | |
| TOTAL PIPELINE | 121,110 | 146 | 0.1% | 64.3% | | | |
| Allergy and immunology | 312 | 0 | 0.0% | 0.0% | | | |
| Anesthesiology | 6,895 | 8 | 0.1% | 3.5% | | | |
| - Adult cardiothoracic anesthesiology | 235 | 0 | 0.0% | 0.0% | | | |
| - Clinical informatics | 1 | 0 | 0.0% | 0.0% | | | |
| - Critical care medicine | 194 | 0 | 0.0% | 0.0% | | | |
| - Regional anesthesiology and acute pain medicine | 77 | 0 | 0.0% | 0.0% | | | |
| - Obstetric anesthesiology | 48 | 0 | 0.0% | 0.0% | | | |
| - Pain medicine (multidisciplinary) | 400 | 1 | 0.3% | 0.4% | | | |
| - Pediatric anesthesiology | 185 | 1 | 0.5% | 0.4% | | | |
| | | 0 | | 0.4% | | | |
| Colon and rectal surgery | 105 1,612 | 2 | 0.0% | 0.0% | | | |
| Dermatology Dermatology | | _ | | | | | |
| - Dermatopathology (multidisciplinary) | 69 | 0 | 0.0% | 0.0% | | | |
| - Micrographic surgery and dermatologic oncology | 86 | 0 | 0.0% | 0.0% | | | |
| Emergency medicine | 8,642 | 9 | 0.1% | 4.0% | | | |
| - Clinical informatics | 10 | 0 | 0.0% | 0.0% | | | |
| - Emergency medical services | 86 | 0 | 0.0% | 0.0% | | | |
| - Medical toxicology | 79 | 0 | 0.0% | 0.0% | | | |
| - Pediatric emergency medicine | 134 | 0 | 0.0% | 0.0% | | | |
| - Sports medicine | 16 | 0 | 0.0% | 0.0% | | | |
| - Undersea and hyperbaric medicine | 11 | 0 | 0.0% | 0.0% | | | |
| Family medicine | 14,225 | 19 | 0.1% | 8.4% | | | |
| - Clinical informatics | 10 | 0 | 0.0% | 0.0% | | | |
| - Geriatric medicine | 39 | 1 | 2.6% | 0.4% | | | |
| - Hospice and palliative medicine (multidisciplinary) | 401 | 11 | 2.7% | 4.8% | | | |
| - Sports medicine | 278 | 2 | 0.7% | 0.9% | | | |
| Internal medicine | 30,087 | 13 | 0.0% | 5.7% | | | |
| - Adult congenital heart disease | 28 | 0 | 0.0% | 0.0% | | | |
| - Advanced heart failure and transplant cardiology | 101 | 0 | 0.0% | 0.0% | | | |
| - Cardiovascular disease | 3,240 | 3 | 0.1% | 1.3% | | | |
| - Clinical cardiac electrophysiology | 276 | 2 | 0.7% | 0.9% | | | |
| - Clinical informatics | 36 | 0 | 0.0% | 0.0% | | | |
| - Critical care medicine | 280 | 0 | 0.0% | 0.0% | | | |
| - Endocrinology, diabetes, and metabolism | 689 | 0 | 0.0% | 0.0% | | | |
| - Gastroenterology | 1,844 | 2 | 0.1% | 0.9% | | | |
| - Geriatric medicine | 272 | 4 | 1.5% | 1.8% | | | |
| - Hematology | 18 | 0 | 0.0% | 0.0% | | | |
| - Hematology and medical oncology | 1,895 | 4 | 0.2% | 1.8% | | | |
| - Infectious disease | 763 | 1 | 0.1% | 0.4% | | | |
| - Interventional cardiology | 355 | 0 | 0.0% | 0.0% | | | |
| - Nephrology | 829 | 3 | 0.4% | 1.3% | | | |
| - Medical oncology | 34 | 1 | 2.9% | 0.4% | | | |
| - Pulmonary disease | 70 | 1 | 1.4% | 0.4% | | | |
| - Pulmonary disease and critical care medicine | 2,085 | 5 | 0.2% | 2.2% | | | |
| - Rheumatology | 520 | 2 | 0.4% | 0.9% | | | |
| - Sleep medicine (multidisciplinary) | 190 | 10 | 5.3% | 4.4% | | | |
| - Transplant hepatology | 47 | 0 | 0.0% | 0.0% | | | |
| Medical genetics and genomics | 68 | 0 | 0.0% | 0.0% | | | |
| - Medical biochemical genetics | 14 | 0 | 0.0% | 0.0% | | | |
| - Molecular genetic pathology (multidisciplinary) | 57 | 1 | 1.8% | 0.4% | | | |
| Neurological surgery | 1,561 | 2 | 0.1% | 0.9% | | | |
| - Endovascular surgical neuroradiology | 1 | 0 | 0.0% | 0.0% | | | |

Table C.7 Continued

| Specialty | Total Residents | Number of Part-Time Residents | Percent of All Residents in Specialty | Percent of All Part-Time Residents |
|--|-----------------|----------------------------------|--|---------------------------------------|
| Neurology | 3,221 | 9 | 0.3% | 4.0% |
| - Brain injury medicine | 1 | 0 | 0.0% | 0.0% |
| - Clinical neurophysiology | 143 | 1 | 0.7% | 0.4% |
| - Epilepsy | 134 | 1 | 0.7% | 0.4% |
| - Endovascular surgical neuroradiology | 3 | 0 | 0.0% | 0.4% |
| - Neurodevelopmental disabilities | 26 | 0 | 0.0% | 0.0% |
| - Neurodevelopmental disabilities - Neuromuscular medicine | 74 | 0 | 0.0% | 0.0% |
| | 162 | 1 | 0.6% | 0.4% |
| - Vascular neurology | 419 | 1 | 0.0% | 0.4% |
| Child neurology Nuclear medicine | 69 | 0 | 0.0% | 0.4% |
| | | 4 | 0.0% | |
| Obstetrics and gynecology | 5,769 | 0 | | 1.8% |
| - Female pelvic medicine and reconstructive surgery | 146 | - | 0.0% | 0.0% |
| - Gynecologic oncology | 221 | 0 | 0.0% | 0.0% |
| - Maternal-fetal medicine | 391 | 0 | 0.0% | 0.0% |
| - Reproductive endocrinology and infertility | 166 | 0 | 0.0% | 0.0% |
| - Complex family planning | 32 | 0 | 0.0% | 0.0% |
| Ophthalmology | 1,531 | 1 | 0.1% | 0.4% |
| - Ophthalmic plastic and reconstructive surgery | 3 | 0 | 0.0% | 0.0% |
| Orthopaedic surgery | 4,415 | 6 | 0.1% | 2.6% |
| - Adult reconstructive orthopaedics | 50 | 0 | 0.0% | 0.0% |
| - Foot and ankle orthopaedics | 17 | 0 | 0.0% | 0.0% |
| - Hand surgery | 155 | 0 | 0.0% | 0.0% |
| - Musculoskeletal oncology | 16 | 0 | 0.0% | 0.0% |
| - Orthopaedic sports medicine | 211 | 0 | 0.0% | 0.0% |
| - Orthopaedic surgery of the spine | 25 | 0 | 0.0% | 0.0% |
| - Orthopaedic trauma | 20 | 0 | 0.0% | 0.0% |
| - Pediatric orthopaedics | 34 | 0 | 0.0% | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 68 | 2 | 2.9% | 0.9% |
| Otolaryngology - head and neck surgery | 1,723 | 2 | 0.1% | 0.9% |
| - Neurotology | 36 | 0 | 0.0% | 0.0% |
| - Pediatric otolaryngology | 34 | 0 | 0.0% | 0.0% |
| Pathology-anatomic and clinical | 2,346 | 4 | 0.2% | 1.8% |
| - Blood banking/transfusion medicine | 52 | 2 | 3.8% | 0.9% |
| - Clinical informatics | 19 | 0 | 0.0% | 0.0% |
| - Chemical pathology | | 0 | | 0.0% |
| - Cytopathology | 127 | 1 | 0.8% | 0.4% |
| - Forensic pathology | 49 | 0 | 0.0% | 0.0% |
| - Hematopathology | 117 | 0 | 0.0% | 0.0% |
| - Medical microbiology | 16 | 0 | 0.0% | 0.0% |
| - Neuropathology | 53 | 1 | 1.9% | 0.4% |
| - Pediatric pathology | 21 | 0 | 0.0% | 0.0% |
| - Selective pathology | 176 | 1 | 0.6% | 0.4% |
| Pediatrics | 9,419 | 14 | 0.1% | 6.2% |
| - Adolescent medicine | 97 | 0 | 0.0% | 0.0% |
| - Child abuse pediatrics | 44 | 0 | 0.0% | 0.0% |
| - Clinical informatics | 19 | 0 | 0.0% | 0.0% |
| - Developmental-behavioral pediatrics | 114 | 1 | 0.9% | 0.4% |
| Neonatal-perinatal medicine | 783 | 0 | 0.0% | 0.0% |
| - Pediatric cardiology | 468 | 0 | 0.0% | 0.0% |
| - Pediatric cardiology - Pediatric critical care medicine | 575 | 2 | 0.3% | 0.9% |
| - Pediatric emergency medicine | 434 | 1 | 0.2% | 0.4% |
| - Pediatric emergency medicine - Pediatric endocrinology | 230 | 0 | 0.0% | 0.4% |
| - Pediatric endocrinology - Pediatric gastroenterology | 329 | 0 | 0.0% | 0.0% |

| TADIE | α | $\boldsymbol{\alpha}$ | 7 |
|-------|----------|-----------------------|---|
| | | | |

| | | Number of Part-Time | Percent of All Residents | Percent of All Part-Time |
|---|-----------------|---------------------|--------------------------|--------------------------|
| Specialty | Total Residents | Residents | in Specialty | Residents |
| - Pediatric hematology/oncology | 475 | 2 | 0.4% | 0.9% |
| - Pediatric infectious diseases | 175 | 0 | 0.0% | 0.0% |
| - Pediatric nephrology | 120 | 0 | 0.0% | 0.0% |
| - Pediatric pulmonology | 176 | 0 | 0.0% | 0.0% |
| - Pediatric rheumatology | 88 | 0 | 0.0% | 0.0% |
| - Sports medicine | 26 | 1 | 3.8% | 0.4% |
| - Pediatric transplant hepatology | 11 | 0 | 0.0% | 0.0% |
| - Pediatric hospital medicine | 115 | 0 | 0.0% | 0.0% |
| Physical medicine and rehabilitation | 1,510 | 0 | 0.0% | 0.0% |
| - Brain injury medicine | 17 | 1 | 5.9% | 0.4% |
| - Neuromuscular medicine | 1 | 0 | 0.0% | 0.0% |
| - Spinal cord injury medicine | 19 | 0 | 0.0% | 0.0% |
| - Pediatric rehabilitation medicine | 30 | 0 | 0.0% | 0.0% |
| - Sports medicine | 33 | 0 | 0.0% | 0.0% |
| Plastic surgery | 214 | 1 | 0.5% | 0.4% |
| Plastic surgery - integrated | 1,009 | 1 | 0.1% | 0.4% |
| - Craniofacial surgery | 7 | 0 | 0.0% | 0.0% |
| - Hand surgery | 23 | 0 | 0.0% | 0.0% |
| Preventive medicine | 350 | 1 | 0.3% | 0.4% |
| - Medical toxicology | 3 | 0 | 0.0% | 0.0% |
| - Undersea and hyperbaric medicine | 1 | 0 | 0.0% | 0.0% |
| Psychiatry | 6,976 | 16 | 0.2% | 7.0% |
| - Addiction medicine (multidisciplinary) | 129 | 3 | 2.3% | 1.3% |
| - Addiction psychiatry | 86 | 1 | 1.2% | 0.4% |
| - Child and adolescent psychiatry | 919 | 0 | 0.0% | 0.0% |
| - Forensic psychiatry | 80 | 3 | 3.8% | 1.3% |
| - Geriatric psychiatry | 44 | 0 | 0.0% | 0.0% |
| - Consultation-liaison psychiatry | 82 | 0 | 0.0% | 0.0% |
| Radiation oncology | 773 | 2 | 0.3% | 0.9% |
| Radiology-diagnostic | 4,557 | 7 | 0.2% | 3.1% |
| - Abdominal radiology | 46 | 0 | 0.0% | 0.0% |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 0.0% |
| - Musculoskeletal radiology | 40 | 0 | 0.0% | 0.0% |
| - Neuroradiology | 272 | 0 | 0.0% | 0.0% |
| - Nuclear radiology | 7 | 0 | 0.0% | 0.0% |
| - Pediatric radiology | 51 | 0 | 0.0% | 0.0% |
| Interventional radiology - independent | 184 | 0 | 0.0% | 0.0% |
| Interventional radiology - integrated | 591 | 0 | 0.0% | 0.0% |
| Surgery | 9,063 | 17 | 0.2% | 7.5% |
| - Complex general surgical oncology | 120 | 0 | 0.0% | 0.0% |
| - Hand surgery | 7 | 0 | 0.0% | 0.0% |
| - Pediatric surgery | 86 | 0 | 0.0% | 0.0% |
| - Surgical critical care | 299 | 1 | 0.3% | 0.4% |
| - Vascular surgery | 255 | 0 | 0.0% | 0.0% |
| Vascular surgery - integrated | 332 | 0 | 0.0% | 0.0% |
| Thoracic surgery | 243 | 0 | 0.0% | 0.0% |
| - Congenital cardiac surgery | 11 | 0 | 0.0% | 0.0% |
| Thoracic surgery - integrated | 203 | 0 | 0.0% | 0.0% |
| Urology | 1,768 | 4 | 0.2% | 1.8% |
| - Female pelvic medicine and reconstructive surgery | 37 | 0 | 0.0% | 0.0% |
| - Pediatric urology | 18 | 0 | 0.0% | 0.0% |
| Transitional year | 1,693 | 2 | 0.1% | 0.9% |
| Internal medicine/Pediatrics | 1,510 | 1 | 0.1% | 0.4% |



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, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021; SAS Enterprise Guide Software, Version 7.1.

TABLE C.9

| | | State Population - Census | on per 100,000 Po | | |
|----------------------|--------------------|---------------------------|------------------------|--------------------------|---------------------------|
| State Name | State Abbreviation | Estimate 2020 | Total Residents | Percent of All Residents | Residents per 100,000 Pop |
| OVERALL | - | 332,643,466 | 149,200 | 100.0% | 44.85 |
| Alabama | AL | 4,921,532 | 1,669 | 1.1% | 33.91 |
| Alaska | AK | 731,158 | 37 | 0.0% | 5.06 |
| Arizona | AZ | 7,421,401 | 2,088 | 1.4% | 28.13 |
| Arkansas | AR | 3,030,522 | 1,041 | 0.7% | 34.35 |
| California | CA | 39,368,078 | 13,646 | 9.1% | 34.66 |
| Colorado | CO | 5,807,719 | 1,726 | 1.2% | 29.72 |
| Connecticut | CT | 3,557,006 | 2,524 | 1.7% | 70.96 |
| Delaware | DE | 986,809 | 378 | 0.3% | 38.31 |
| District of Columbia | DC | 712,816 | 1,773 | 1.2% | 248.73 |
| Florida | FL | 21,733,312 | 7,583 | 5.1% | 34.89 |
| Georgia | GA | 10,710,017 | 3,056 | 2.0% | 28.53 |
| Hawaii | HI | 1,407,006 | 462 | 0.3% | 32.84 |
| Idaho | ID | 1,826,913 | 174 | 0.1% | 9.52 |
| Illinois | IL | 12,587,530 | 6,916 | 4.6% | 54.94 |
| Indiana | IN | | 1,575 | 1.1% | 23.32 |
| Iowa | IA | 6,754,953 | 1,025 | 0.7% | 32.40 |
| | | 3,163,561 | 893 | | |
| Kansas | KS | 2,913,805 | | 0.6% | 30.65 35.22 |
| Kentucky | KY | 4,477,251 | 1,577 | 1.1% | |
| Louisiana | LA | 4,645,318 | 2,322 | 1.6% | 49.99 |
| Maine | ME | 1,350,141 | 349 | 0.2% | 25.85 |
| Maryland | MD | 6,055,802 | 3,350 | 2.2% | 55.32 |
| Massachusetts | MA | 6,893,574 | 5,934 | 4.0% | 86.08 |
| Michigan | MI | 9,966,555 | 7,432 | 5.0% | 74.57 |
| Minnesota | MN | 5,657,342 | 2,420 | 1.6% | 42.78 |
| Mississippi | MS | 2,966,786 | 871 | 0.6% | 29.36 |
| Missouri | MO | 6,151,548 | 3,207 | 2.1% | 52.13 |
| Montana | MT | 1,080,577 | 82 | 0.1% | 7.59 |
| Nebraska | NE | 1,937,552 | 870 | 0.6% | 44.90 |
| Nevada | NV | 3,138,259 | 884 | 0.6% | 28.17 |
| New Hampshire | NH | 1,366,275 | 461 | 0.3% | 33.74 |
| New Jersey | NJ | 8,882,371 | 3,966 | 2.7% | 44.65 |
| New Mexico | NM | 2,106,319 | 695 | 0.5% | 33.00 |
| New York | NY | 19,336,776 | 18,944 | 12.7% | 97.97 |
| North Carolina | NC | 10,600,823 | 4,010 | 2.7% | 37.83 |
| North Dakota | ND | 765,309 | 178 | 0.1% | 23.26 |
| Ohio | OH | 11,693,217 | 7,421 | 5.0% | 63.46 |
| Oklahoma | OK | 3,980,783 | 1,242 | 0.8% | 31.20 |
| Oregon | OR | 4,241,507 | 1,070 | 0.7% | 25.23 |
| Pennsylvania | PA | 12,783,254 | 9,465 | 6.3% | 74.04 |
| Puerto Rico | PR | 3,159,343 | 963 | 0.6% | 30.48 |
| Rhode Island | RI | 1,057,125 | 899 | 0.6% | 85.04 |
| South Carolina | SC | 5,218,040 | 1,691 | 1.1% | 32.41 |
| South Dakota | SD | 892,717 | 161 | 0.1% | 18.03 |
| Tennessee | TN | 6,886,834 | 2,687 | 1.8% | 39.02 |
| Texas | TX | 29,360,759 | 9,910 | 6.6% | 33.75 |
| Utah | UT | 3,249,879 | 897 | 0.6% | 27.60 |
| Vermont | VT | 623,347 | 328 | 0.2% | 52.62 |
| Virginia | VA | 8,590,563 | 2,992 | 2.0% | 34.83 |
| Washington | WA | 7,693,612 | 2,231 | 1.5% | 29.00 |
| West Virginia | WV | 1,784,787 | 989 | 0.7% | 55.41 |
| Wisconsin | WI | 5,832,655 | 2,094 | 1.4% | 35.90 |
| Wyoming | WY | 582,328 | 42 | 0.0% | 7.21 |

| 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 2020 | Total Specialty Residents | Percent of All Specialty Residents | Specialty Residents per 100,000 Pop | | |
| OVERALL | - | 332,643,466 | 123,279 | 100.0% | 37.06 | | |
| Alabama | AL | 4,921,532 | 1,396 | 1.1% | 28.37 | | |
| Alaska | AK | 731,158 | 36 | 0.0% | 4.92 | | |
| Arizona | AZ | 7,421,401 | 1,756 | 1.4% | 23.66 | | |
| Arkansas | AR | 3,030,522 | 912 | 0.7% | 30.09 | | |
| California | CA | 39,368,078 | 11,121 | 9.0% | 28.25 | | |
| Colorado | CO | 5,807,719 | 1,383 | 1.1% | 23.81 | | |
| Connecticut | CT | 3,557,006 | 2,055 | 1.7% | 57.77 | | |
| Delaware | DE | 986,809 | 319 | 0.3% | 32.33 | | |
| District of Columbia | DC | 712,816 | 1,395 | 1.1% | 195.70 | | |
| Florida | FL | 21,733,312 | 6,457 | 5.2% | 29.71 | | |
| Georgia | GA | 10,710,017 | 2,592 | 2.1% | 24.20 | | |
| Hawaii | HI | 1,407,006 | 428 | 0.3% | 30.42 | | |
| Idaho | ID | 1,826,913 | 172 | 0.1% | 9.41 | | |
| Illinois | IL | 12,587,530 | 5,839 | 4.7% | 46.39 | | |
| Indiana | IN | 6,754,953 | 1,342 | 1.1% | 19.87 | | |
| Iowa | IA | 3,163,561 | 851 | 0.7% | 26.90 | | |
| Kansas | KS | 2,913,805 | 786 | 0.6% | 26.98 | | |
| Kentucky | KY KY | 4,477,251 | 1,309 | 1.1% | 29.24 | | |
| Louisiana | LA | 4,645,318 | 1,988 | 1.6% | 42.80 | | |
| Maine | | 1,350,141 | | | | | |
| | ME | · · · · | 314 | 0.3% | 23.26 | | |
| Maryland | MD | 6,055,802 | 2,600 | 2.1% | 42.93 | | |
| Massachusetts | MA | 6,893,574 | 4,517 | 3.7% | 65.52 | | |
| Michigan | MI | 9,966,555 | 6,423 | 5.2% | 64.45 | | |
| Minnesota | MN | 5,657,342 | 1,868 | 1.5% | 33.02 | | |
| Mississippi | MS | 2,966,786 | 754 | 0.6% | 25.41 | | |
| Missouri | MO | 6,151,548 | 2,542 | 2.1% | 41.32 | | |
| Montana | MT | 1,080,577 | 81 | 0.1% | 7.50 | | |
| Nebraska | NE | 1,937,552 | 718 | 0.6% | 37.06 | | |
| Nevada | NV | 3,138,259 | 800 | 0.6% | 25.49 | | |
| New Hampshire | NH | 1,366,275 | 371 | 0.3% | 27.15 | | |
| New Jersey | NJ | 8,882,371 | 3,488 | 2.8% | 39.27 | | |
| New Mexico | NM | 2,106,319 | 570 | 0.5% | 27.06 | | |
| New York | NY | 19,336,776 | 15,600 | 12.7% | 80.68 | | |
| North Carolina | NC | 10,600,823 | 3,212 | 2.6% | 30.30 | | |
| North Dakota | ND | 765,309 | 174 | 0.1% | 22.74 | | |
| Ohio | OH | 11,693,217 | 6,072 | 4.9% | 51.93 | | |
| Oklahoma | OK | 3,980,783 | 1,102 | 0.9% | 27.68 | | |
| Oregon | OR | 4,241,507 | 885 | 0.7% | 20.87 | | |
| Pennsylvania | PA | 12,783,254 | 7,697 | 6.2% | 60.21 | | |
| Puerto Rico | PR | 3,159,343 | 832 | 0.7% | 26.33 | | |
| Rhode Island | RI | 1,057,125 | 722 | 0.6% | 68.30 | | |
| South Carolina | SC | 5,218,040 | 1,457 | 1.2% | 27.92 | | |
| South Dakota | SD | 892,717 | 150 | 0.1% | 16.80 | | |
| Tennessee | TN | 6,886,834 | 2,159 | 1.8% | 31.35 | | |
| Texas | TX | 29,360,759 | 8,034 | 6.5% | 27.36 | | |
| Utah | UT | 3,249,879 | 683 | 0.6% | 21.02 | | |
| Vermont | VT | 623,347 | 265 | 0.2% | 42.51 | | |
| Virginia | VA | 8,590,563 | 2,559 | 2.1% | 29.79 | | |
| Washington | WA | 7,693,612 | 1,862 | 1.5% | 24.20 | | |
| West Virginia | WV | 1,784,787 | 860 | 0.7% | 48.19 | | |
| Wisconsin | WI | 5,832,655 | 1,729 | 1.4% | 29.64 | | |

42

0.0%

582,328

7.21

Wyoming

WY

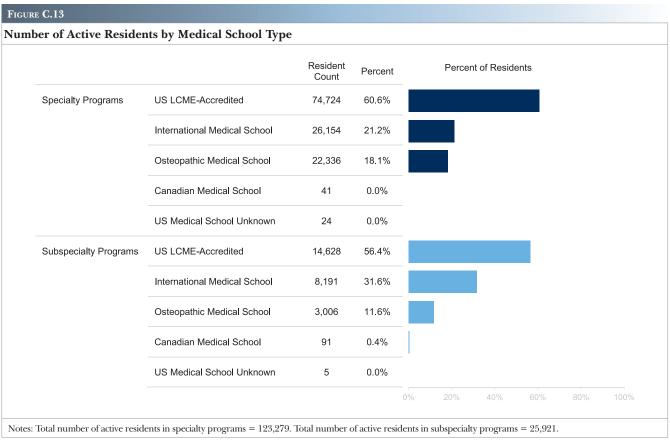
TABLE C.11

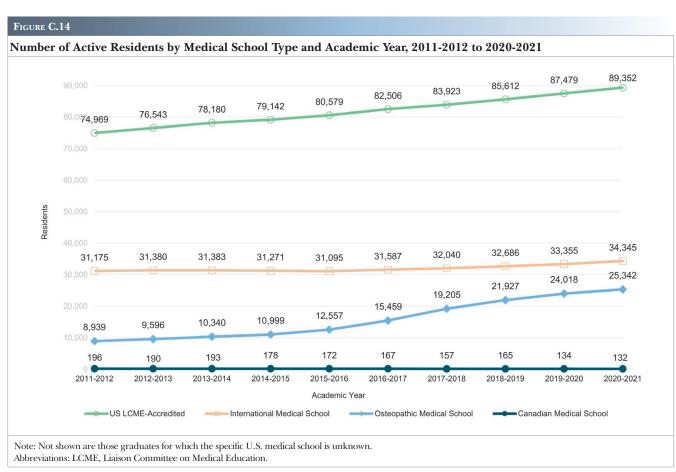
Number of Active Subspecialty Residents and Active Subspecialty Resident Concentration per 100,000 Population by State

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Subspecialty Residents | Percent of All Subspecialty Residents | Subspecialty Residents per 100,000 Pop |
|----------------------|--------------------|--|---------------------------------|--|---|
| OVERALL | - | 332,643,466 | 25,921 | 100.0% | 7.79 |
| Alabama | AL | 4,921,532 | 273 | 1.1% | 5.55 |
| Alaska | AK | 731,158 | 1 | 0.0% | 0.14 |
| Arizona | AZ | 7,421,401 | 332 | 1.3% | 4.47 |
| Arkansas | AR | 3,030,522 | 129 | 0.5% | 4.26 |
| California | CA | 39,368,078 | 2,525 | 9.7% | 6.41 |
| Colorado | CO | 5,807,719 | 343 | 1.3% | 5.91 |
| Connecticut | CT | 3,557,006 | 469 | 1.8% | 13.19 |
| Delaware | DE | 986,809 | 59 | 0.2% | 5.98 |
| District of Columbia | DC | 712,816 | 378 | 1.5% | 53.03 |
| Florida | FL | 21,733,312 | 1,126 | 4.3% | 5.18 |
| Georgia | GA | 10,710,017 | 464 | 1.8% | 4.33 |
| Hawaii | HI | 1,407,006 | 34 | 0.1% | 2.42 |
| Idaho | ID | 1,826,913 | 2 | 0.0% | 0.11 |
| Illinois | IL | 12,587,530 | 1,077 | 4.2% | 8.56 |
| Indiana | IN | 6,754,953 | 233 | 0.9% | 3.45 |
| Iowa | IA | 3,163,561 | 174 | 0.7% | 5.50 |
| Kansas | KS | 2,913,805 | 107 | 0.4% | 3.67 |
| Kentucky | KY | 4,477,251 | 268 | 1.0% | 5.99 |
| Louisiana | LA | 4,645,318 | 334 | 1.3% | 7.19 |
| Maine | ME | 1,350,141 | 35 | 0.1% | 2.59 |
| Maryland | MD | 6,055,802 | 750 | 2.9% | 12.38 |
| Massachusetts | MA | 6,893,574 | 1,417 | 5.5% | 20.56 |
| Michigan | MI | 9,966,555 | 1,009 | 3.9% | 10.12 |
| Minnesota | MN | 5,657,342 | 552 | 2.1% | 9.76 |
| Mississippi | MS | 2,966,786 | 117 | 0.5% | 3.94 |
| Missouri | MO | 6,151,548 | 665 | 2.6% | 10.81 |
| Montana | MT | 1,080,577 | 1 | 0.0% | 0.09 |
| Nebraska | NE | 1,937,552 | 152 | 0.6% | 7.84 |
| Nevada | NV | 3,138,259 | 84 | 0.3% | 2.68 |
| New Hampshire | NH | 1,366,275 | 90 | 0.3% | 6.59 |
| New Jersey | NJ | 8,882,371 | 478 | 1.8% | 5.38 |
| New Mexico | NM | 2,106,319 | 125 | 0.5% | 5.93 |
| New York | NY | 19,336,776 | 3,344 | 12.9% | 17.29 |
| North Carolina | NC | 10,600,823 | 798 | 3.1% | 7.53 |
| North Dakota | ND | 765,309 | 4 | 0.0% | 0.52 |
| Ohio | OH | , | 1,349 | 5.2% | |
| | OK OK | 11,693,217 | | | 11.54 3.52 |
| Oklahoma | | 3,980,783 | 140 | 0.5% | |
| Oregon | OR | 4,241,507 | 185 | 0.7% | 4.36 |
| Pennsylvania | PA | 12,783,254 | 1,768 | 6.8% | 13.83 |
| Puerto Rico | PR | 3,159,343 | 131 | 0.5% | 4.15 |
| Rhode Island | RI | 1,057,125 | 177 | 0.7% | 16.74 |
| South Carolina | SC | 5,218,040 | 234 | 0.9% | 4.48 |
| South Dakota | SD | 892,717 | 11 | 0.0% | 1.23 |
| Tennessee | TN | 6,886,834 | 528 | 2.0% | 7.67 |
| Texas | TX | 29,360,759 | 1,876 | 7.2% | 6.39 |
| Utah | UT | 3,249,879 | 214 | 0.8% | 6.58 |
| Vermont | VT | 623,347 | 63 | 0.2% | 10.11 |
| Virginia | VA | 8,590,563 | 433 | 1.7% | 5.04 |
| Washington | WA | 7,693,612 | 369 | 1.4% | 4.80 |
| West Virginia | WV | 1,784,787 | 129 | 0.5% | 7.23 |
| Wisconsin | WI | 5,832,655 | 365 | 1.4% | 6.26 |
| Wyoming | WY | 582,328 | 0 | 0.0% | 0.00 |

TABLE C.12

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Pipeline Residents | Percent of All Pipeline Residents | Pipeline Residents per 100,000 Pop |
|----------------------|--------------------|--|--------------------------|--------------------------------------|---------------------------------------|
| OVERALL | - | 332,643,466 | 121,110 | 100.0% | 36.41 |
| Alabama | AL | 4,921,532 | 1,375 | 1.1% | 27.94 |
| Alaska | AK | 731,158 | 36 | 0.0% | 4.92 |
| Arizona | AZ | 7,421,401 | 1,717 | 1.4% | 23.14 |
| Arkansas | AR | 3,030,522 | 897 | 0.7% | 29.60 |
| California | CA | 39,368,078 | 10,945 | 9.0% | 27.80 |
| Colorado | CO | 5,807,719 | 1,357 | 1.1% | 23.37 |
| Connecticut | CT | 3,557,006 | 2,044 | 1.7% | 57.46 |
| Delaware | DE | 986,809 | 312 | 0.3% | 31.62 |
| District of Columbia | DC | 712,816 | 1,397 | 1.2% | 195.98 |
| Florida | FL | 21,733,312 | 6,274 | 5.2% | 28.87 |
| Georgia | GA | 10,710,017 | 2,484 | 2.1% | 23.19 |
| Hawaii | HI | 1,407,006 | 420 | 0.3% | 29.85 |
| daho | ID | 1,826,913 | 172 | 0.1% | 9.41 |
| Illinois | IL | 12,587,530 | 5,751 | 4.7% | 45.69 |
| Indiana | IN | 6,754,953 | 1,296 | 1.1% | 19.19 |
| Iowa | IA | 3,163,561 | 839 | 0.7% | 26.52 |
| Kansas | KS | 2,913,805 | 780 | 0.6% | 26.77 |
| Kentucky | KY | | 1,295 | 1.1% | 28.92 |
| Louisiana | | 4,477,251 | | 1.6% | 42.43 |
| | LA | 4,645,318 | 1,971 | | |
| Maine | ME | 1,350,141 | 314 | 0.3% | 23.26 |
| Maryland | MD | 6,055,802 | 2,539 | 2.1% | 41.93 |
| Massachusetts | MA | 6,893,574 | 4,433 | 3.7% | 64.31 |
| Michigan | MI | 9,966,555 | 6,242 | 5.2% | 62.63 |
| Minnesota | MN | 5,657,342 | 1,832 | 1.5% | 32.38 |
| Mississippi | MS | 2,966,786 | 736 | 0.6% | 24.81 |
| Missouri | MO | 6,151,548 | 2,514 | 2.1% | 40.87 |
| Montana | MT | 1,080,577 | 81 | 0.1% | 7.50 |
| Nebraska | NE | 1,937,552 | 715 | 0.6% | 36.90 |
| Nevada | NV | 3,138,259 | 770 | 0.6% | 24.54 |
| New Hampshire | NH | 1,366,275 | 372 | 0.3% | 27.23 |
| New Jersey | NJ | 8,882,371 | 3,437 | 2.8% | 38.69 |
| New Mexico | NM | 2,106,319 | 563 | 0.5% | 26.73 |
| New York | NY | 19,336,776 | 15,393 | 12.7% | 79.60 |
| North Carolina | NC | 10,600,823 | 3,165 | 2.6% | 29.86 |
| North Dakota | ND | 765,309 | 166 | 0.1% | 21.69 |
| Ohio | OH | 11,693,217 | 5,974 | 4.9% | 51.09 |
| Oklahoma | OK | 3,980,783 | 1,097 | 0.9% | 27.56 |
| Oregon | OR | 4,241,507 | 885 | 0.7% | 20.87 |
| Pennsylvania | PA | 12,783,254 | 7,559 | 6.2% | 59.13 |
| Puerto Rico | PR | 3,159,343 | 791 | 0.7% | 25.04 |
| Rhode Island | RI | 1,057,125 | 722 | 0.6% | 68.30 |
| South Carolina | SC | 5,218,040 | 1,434 | 1.2% | 27.48 |
| South Dakota | SD | 892,717 | 144 | 0.1% | 16.13 |
| Tennessee | TN | 6,886,834 | 2,138 | 1.8% | 31.04 |
| Гехаѕ | TX | 29,360,759 | 7,898 | 6.5% | 26.90 |
| Utah | UT | 3,249,879 | 669 | 0.6% | 20.59 |
| Vermont | VT | 623,347 | 267 | 0.2% | 42.83 |
| Virginia | VA | 8,590,563 | 2,513 | 2.1% | 29.25 |
| Washington | WA | 7,693,612 | 1,811 | 1.5% | 23.54 |
| West Virginia | WV | 1,784,787 | 846 | 0.7% | 47.40 |
| Wisconsin | WI | 5,832,655 | 1,686 | 1.4% | 28.91 |
| Wyoming | WY | 582,328 | 42 | 0.0% | 7.21 |





| ADIE | |
|------|--|
| | |

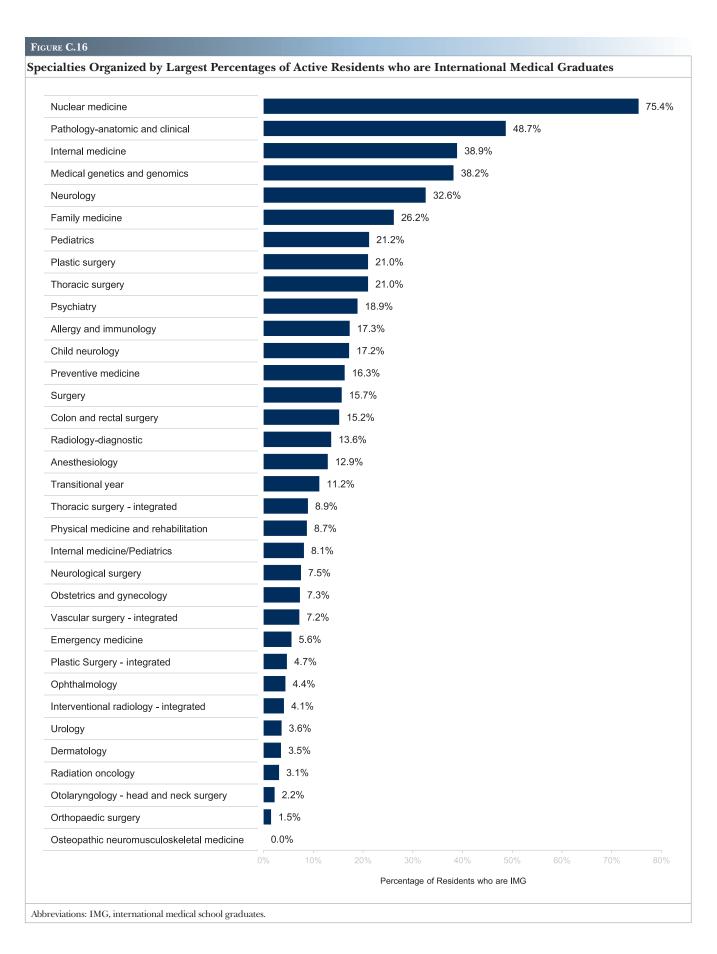
| Number of Active Residents by Specials | y and Sul | ospecia | lty and | Medica | l Schoo | ol Type | | | | | |
|---|-----------|---------|-----------------------------|--------------------|---------|---------|--------------------|-----|-------------------|----|--------------------|
| | Total | Accr | CME - edited l School | Interna Medical | | | pathic l School | | ndian l School | | ledical Unknown |
| Specialty | Residents | # | % | # | % | # | % | # | % | # | % |
| OVERALL | 149,200 | 89,352 | 59.9% | 34,345 | 23.0% | 25,342 | 17.0% | 132 | 0.1% | 29 | 0.0% |
| TOTAL PIPELINE | 121,110 | 73,292 | 60.5% | 25,885 | | 21,871 | 18.1% | 38 | 0.0% | 24 | 0.0% |
| Allergy and immunology | 312 | 221 | 70.8% | 54 | 17.3% | 37 | 11.9% | 0 | 0.0% | 0 | 0.0% |
| Anesthesiology | 6,895 | 4,745 | 68.8% | 891 | 12.9% | 1,254 | 18.2% | 2 | 0.0% | 3 | 0.0% |
| - Adult cardiothoracic anesthesiology | 235 | 162 | 68.9% | 38 | 16.2% | 32 | 13.6% | 3 | 1.3% | 0 | 0.0% |
| - Clinical informatics | 1 | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 194 | 127 | 65.5% | 41 | 21.1% | 24 | 12.4% | 2 | 1.0% | 0 | 0.0% |
| - Regional anesthesiology and acute pain medicine | 77 | 57 | 74.0% | 13 | 16.9% | 7 | 9.1% | 0 | 0.0% | 0 | 0.0% |
| - Obstetric anesthesiology | 48 | 32 | 66.7% | 8 | 16.7% | 7 | 14.6% | 1 | 2.1% | 0 | 0.0% |
| - Pain medicine (multidisciplinary) | 400 | 266 | 66.5% | 61 | 15.2% | 70 | 17.5% | 3 | 0.7% | 0 | 0.0% |
| - Pediatric anesthesiology | 185 | 117 | 63.2% | 45 | 24.3% | 23 | 12.4% | 0 | 0.0% | 0 | 0.0% |
| Colon and rectal surgery | 105 | 82 | 78.1% | 16 | 15.2% | 4 | 3.8% | 3 | 2.9% | 0 | 0.0% |
| Dermatology | 1,612 | 1,382 | 85.7% | 56 | 3.5% | 172 | 10.7% | 2 | 0.1% | 0 | 0.0% |
| - Dermatopathology (multidisciplinary) | 69 | 48 | 69.6% | 15 | 21.7% | 5 | 7.2% | 1 | 1.4% | 0 | 0.0% |
| - Micrographic surgery and dermatologic oncology | 86 | 76 | 88.4% | 3 | 3.5% | 7 | 8.1% | 0 | 0.0% | 0 | 0.0% |
| Emergency medicine | 8,642 | 5,795 | 67.1% | 488 | 5.6% | 2,357 | 27.3% | 2 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 10 | 7 | 70.0% | 3 | 30.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Emergency medical services | 86 | 59 | 68.6% | 10 | 11.6% | 17 | 19.8% | 0 | 0.0% | 0 | 0.0% |
| | 79 | 62 | 78.5% | 5 | 6.3% | 12 | 15.2% | 0 | 0.0% | 0 | 0.0% |
| - Medical toxicology | | | | | | | | - | | - | |
| - Pediatric emergency medicine | 134 | 74 | 55.2% | 37 | 27.6% | 23 | 17.2% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 16 | 9 | 56.3% | 3 | 18.8% | 4 | 25.0% | 0 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 11 | 7 | 63.6% | 2 | 18.2% | 2 | 18.2% | 0 | 0.0% | 0 | 0.0% |
| Family medicine | 14,225 | 5,806 | 40.8% | 3,721 | 26.2% | 4,694 | 33.0% | 2 | 0.0% | 2 | 0.0% |
| - Clinical informatics | 10 | 8 | 80.0% | 2 | 20.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 39 | 15 | 38.5% | 19 | 48.7% | 5 | 12.8% | 0 | 0.0% | 0 | 0.0% |
| - Hospice and palliative medicine (multidisciplinary) | 401 | 223 | 55.6% | 104 | 25.9% | 73 | 18.2% | 1 | 0.2% | 0 | 0.0% |
| - Sports medicine | 278 | 123 | 44.2% | 31 | 11.2% | 124 | 44.6% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine | 30,087 | 13,230 | 44.0% | 11,714 | 38.9% | 5,126 | 17.0% | 6 | 0.0% | 11 | 0.0% |
| - Adult congenital heart disease | 28 | 19 | 67.9% | 6 | 21.4% | 3 | 10.7% | 0 | 0.0% | 0 | 0.0% |
| - Advanced heart failure and transplant cardiology | 101 | 46 | 45.5% | 42 | 41.6% | 11 | 10.9% | 2 | 2.0% | 0 | 0.0% |
| - Cardiovascular disease | 3,240 | 1,667 | 51.5% | 1,224 | 37.8% | 345 | 10.6% | 4 | 0.1% | 0 | 0.0% |
| - Clinical cardiac electrophysiology | 276 | 144 | 52.2% | 108 | 39.1% | 22 | 8.0% | 2 | 0.7% | 0 | 0.0% |
| - Clinical informatics | 36 | 24 | 66.7% | 7 | 19.4% | 5 | 13.9% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 280 | 97 | 34.6% | 127 | 45.4% | 55 | 19.6% | 1 | 0.4% | 0 | 0.0% |
| - Endocrinology, diabetes, and metabolism | 689 | 257 | 37.3% | 369 | 53.6% | 62 | 9.0% | 1 | 0.1% | 0 | 0.0% |
| - Gastroenterology | 1,844 | 1,087 | 58.9% | 546 | | 209 | 11.3% | 2 | 0.1% | 0 | 0.0% |
| - Geriatric medicine | 272 | 76 | 27.9% | 163 | 59.9% | 33 | 12.1% | 0 | 0.0% | 0 | 0.0% |
| - Hematology | 18 | 15 | 83.3% | 3 | 16.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hematology and medical oncology | 1,895 | 1,103 | 58.2% | 656 | 34.6% | 134 | 7.1% | 2 | 0.1% | 0 | 0.0% |
| - Infectious disease | 763 | 350 | 45.9% | 308 | 40.4% | 101 | 13.2% | 3 | 0.4% | 1 | 0.1% |
| - Interventional cardiology | 355 | 148 | 41.7% | 173 | 48.7% | 32 | 9.0% | 1 | 0.3% | 1 | 0.3% |
| - Nephrology | 829 | 175 | 21.1% | 543 | 65.5% | 110 | 13.3% | 1 | 0.1% | 0 | 0.0% |
| - Medical oncology | 34 | 17 | 50.0% | 16 | 47.1% | 1 | 2.9% | 0 | 0.0% | 0 | 0.0% |
| - Pulmonary disease | 70 | 1 | 1.4% | 57 | 81.4% | 12 | 17.1% | 0 | 0.0% | 0 | 0.0% |
| - Pulmonary disease and critical care medicine | 2,085 | 1,011 | 48.5% | 808 | 38.8% | 266 | 12.8% | 0 | 0.0% | 0 | 0.0% |
| - Rheumatology | 520 | 251 | 48.3% | 193 | 37.1% | 76 | 14.6% | 0 | 0.0% | 0 | 0.0% |
| - Sleep medicine (multidisciplinary) | 190 | 84 | 44.2% | 85 | 44.7% | 20 | 10.5% | 1 | 0.5% | 0 | 0.0% |
| - Transplant hepatology | 47 | 32 | 68.1% | 13 | 27.7% | 2 | 4.3% | 0 | 0.0% | 0 | 0.0% |
| Medical genetics and genomics | 68 | 39 | 57.4% | 26 | 38.2% | 3 | 4.4% | 0 | 0.0% | 0 | 0.0% |
| - Medical biochemical genetics | 14 | 6 | 42.9% | 7 | 50.0% | 1 | 7.1% | 0 | 0.0% | 0 | 0.0% |
| - Molecular genetic pathology (multidisciplinary) | 57 | 27 | 47.4% | 27 | 47.4% | 3 | 5.3% | 0 | 0.0% | 0 | 0.0% |
| Neurological surgery | 1,561 | 1,378 | 88.3% | 117 | 7.5% | 64 | 4.1% | 2 | 0.1% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 1 | 1 | | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| Number of Active Residents by Special | - | 121 | CME - | | | | | | | | |
|---|-----------|-------|--------------------|-------|---------------------|-------|--------------------|---|-------------------|---|--------------------|
| | Total | Accr | edited I School | | ational l School | | pathic l School | | adian l School | | Iedical Unknown |
| Specialty | Residents | # | % | # | % | # | % | # | % | # | % |
| Neurology | 3,221 | 1,713 | 53.2% | 1,051 | 32.6% | 455 | 14.1% | 2 | 0.1% | 0 | 0.0% |
| - Brain injury medicine | 1 | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical neurophysiology | 143 | 83 | 58.0% | 44 | 30.8% | 16 | 11.2% | 0 | 0.0% | 0 | 0.0% |
| - Epilepsy | 134 | 73 | 54.5% | 52 | 38.8% | 8 | 6.0% | 1 | 0.7% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 3 | 1 | 33.3% | 2 | 66.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neurodevelopmental disabilities | 26 | 21 | 80.8% | 2 | 7.7% | 2 | 7.7% | 1 | 3.8% | 0 | 0.0% |
| - Neuromuscular medicine | 74 | 51 | 68.9% | 14 | 18.9% | 7 | 9.5% | 2 | 2.7% | 0 | 0.0% |
| - Vascular neurology | 162 | 70 | 43.2% | 72 | 44.4% | 18 | 11.1% | 2 | 1.2% | 0 | 0.0% |
| Child neurology | 419 | 312 | 74.5% | 72 | 17.2% | 35 | 8.4% | 0 | 0.0% | 0 | 0.0% |
| Nuclear medicine | 69 | 14 | 20.3% | 52 | 75.4% | 3 | 4.3% | 0 | 0.0% | 0 | 0.0% |
| Obstetrics and gynecology | 5,769 | 4,409 | 76.4% | 424 | 7.3% | 934 | 16.2% | 0 | 0.0% | 2 | 0.0% |
| - Female pelvic medicine and reconstructive surgery | 146 | 123 | 84.2% | 12 | 8.2% | 11 | 7.5% | 0 | 0.0% | 0 | 0.0% |
| - Gynecologic oncology | 221 | 194 | 87.8% | 7 | 3.2% | 17 | 7.7% | 3 | 1.4% | 0 | 0.0% |
| - Maternal-fetal medicine | 391 | 309 | 79.0% | 50 | 12.8% | 32 | 8.2% | 0 | 0.0% | 0 | 0.0% |
| - Reproductive endocrinology and infertility | 166 | 144 | 86.7% | 15 | 9.0% | 6 | 3.6% | 1 | 0.6% | 0 | 0.0% |
| - Complex family planning | 32 | 30 | 93.8% | 0 | 0.0% | 2 | 6.3% | 0 | 0.0% | 0 | 0.0% |
| Ophthalmology | 1,531 | 1,384 | 90.4% | 68 | 4.4% | 77 | 5.0% | 2 | 0.1% | 0 | 0.0% |
| - Ophthalmic plastic and reconstructive surgery | 3 | 3 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Orthopaedic surgery | 4,415 | 3,743 | 84.8% | 66 | 1.5% | 606 | 13.7% | 0 | 0.0% | 0 | 0.0% |
| - Adult reconstructive orthopaedics | 50 | 40 | 80.0% | 1 | 2.0% | 9 | 18.0% | 0 | 0.0% | 0 | 0.0% |
| - Foot and ankle orthopaedics | 17 | 14 | 82.4% | 2 | 11.8% | 0 | 0.0% | 1 | 5.9% | 0 | 0.0% |
| - Hand surgery | 155 | 140 | 90.3% | 0 | 0.0% | 12 | 7.7% | 3 | 1.9% | 0 | 0.0% |
| - Musculoskeletal oncology | 16 | 13 | 81.3% | 3 | 18.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic sports medicine | 211 | 169 | 80.1% | 11 | 5.2% | 29 | 13.7% | 2 | 0.9% | 0 | 0.0% |
| - Orthopaedic surgery of the spine | 25 | 18 | 72.0% | 2 | 8.0% | 5 | 20.0% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic trauma | 20 | 15 | 75.0% | 1 | 5.0% | 3 | 15.0% | 1 | 5.0% | 0 | 0.0% |
| - Pediatric orthopaedics | 34 | 25 | 73.5% | 6 | 17.6% | 2 | 5.9% | 1 | 2.9% | 0 | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 68 | 3 | 4.4% | 0 | 0.0% | 65 | 95.6% | 0 | 0.0% | 0 | 0.0% |
| Otolaryngology - head and neck surgery | 1,723 | 1,571 | 91.2% | 38 | 2.2% | 114 | 6.6% | 0 | 0.0% | 0 | 0.0% |
| - Neurotology | 36 | 33 | 91.7% | 2 | 5.6% | 0 | 0.0% | 1 | 2.8% | 0 | 0.0% |
| - Pediatric otolaryngology | 34 | 27 | 79.4% | 5 | 14.7% | 1 | 2.9% | 1 | 2.9% | 0 | 0.0% |
| Pathology-anatomic and clinical | 2,346 | 965 | 41.1% | 1,143 | 48.7% | 235 | 10.0% | 2 | 0.1% | 1 | 0.0% |
| - Blood banking/transfusion medicine | 52 | 32 | 61.5% | 16 | 30.8% | 4 | 7.7% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 19 | 11 | 57.9% | 8 | 42.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Chemical pathology | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Cytopathology | 127 | 53 | 41.7% | 61 | 48.0% | 12 | 9.4% | 1 | 0.8% | 0 | 0.0% |
| - Forensic pathology | 49 | 29 | 59.2% | 11 | 22.4% | 7 | 14.3% | 2 | 4.1% | 0 | 0.0% |
| - Hematopathology | 117 | 48 | 41.0% | 57 | 48.7% | 10 | 8.5% | 2 | 1.7% | 0 | 0.0% |
| - Medical microbiology | 16 | 9 | 56.3% | 6 | 37.5% | 1 | 6.3% | 0 | 0.0% | 0 | 0.0% |
| - Neuropathology | 53 | 32 | 60.4% | 15 | 28.3% | 5 | 9.4% | 1 | 1.9% | 0 | 0.0% |
| - Pediatric pathology | 21 | 15 | 71.4% | 4 | 19.0% | 1 | 4.8% | 1 | 4.8% | 0 | 0.0% |
| - Selective pathology | 176 | 54 | 30.7% | 104 | 59.1% | 12 | 6.8% | 6 | 3.4% | 0 | 0.0% |
| Pediatrics | 9,419 | 5,861 | 62.2% | 2,000 | 21.2% | 1,554 | 16.5% | 3 | 0.0% | 1 | 0.0% |
| - Adolescent medicine | 97 | 74 | 76.3% | 9 | 9.3% | 14 | 14.4% | 0 | 0.0% | 0 | 0.0% |
| - Child abuse pediatrics | 44 | 28 | 63.6% | 7 | 15.9% | 9 | 20.5% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 19 | 18 | 94.7% | 0 | 0.0% | 1 | 5.3% | 0 | 0.0% | 0 | 0.0% |
| - Developmental-behavioral pediatrics | 114 | 66 | 57.9% | 32 | 28.1% | 16 | 14.0% | 0 | 0.0% | 0 | 0.0% |
| - Neonatal-perinatal medicine | 783 | 462 | 59.0% | 230 | 29.4% | 89 | 11.4% | 2 | 0.3% | 0 | 0.0% |
| - Pediatric cardiology | 468 | 328 | 70.1% | 103 | 22.0% | 36 | 7.7% | 1 | 0.2% | 0 | 0.0% |
| - Pediatric critical care medicine | 575 | 379 | 65.9% | 138 | 24.0% | 57 | 9.9% | 0 | 0.0% | 1 | 0.2% |
| - Pediatric emergency medicine | 434 | 319 | 73.5% | 57 | 13.1% | 58 | 13.4% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric endocrinology | 230 | 121 | 52.6% | 86 | 37.4% | 23 | 10.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric gastroenterology | 329 | 217 | 66.0% | 84 | 25.5% | 28 | 8.5% | 0 | 0.0% | 0 | 0.0% |

Table C.15 Continued

| , , | Ī | _ | C) (T) | Medica | | _ · · | | | | | |
|---|-----------|----------|-----------------------------|----------|---------------------|-------|--------------------|---|--------------------|---|--------------------|
| | Total | Accr | CME - edited l School | | ational l School | | pathic I School | | adian Il School | | Iedical Unknown |
| Specialty | Residents | # | % | # | % | # | % | # | % | # | % |
| - Pediatric hematology/oncology | 475 | 313 | 65.9% | 107 | 22.5% | 54 | 11.4% | 1 | 0.2% | 0 | 0.0% |
| - Pediatric infectious diseases | 175 | 106 | 60.6% | 49 | 28.0% | 20 | 11.4% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric nephrology | 120 | 80 | 66.7% | 32 | 26.7% | 7 | 5.8% | 0 | 0.0% | 1 | 0.8% |
| - Pediatric pulmonology | 176 | 95 | 54.0% | 62 | 35.2% | 19 | 10.8% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric rheumatology | 88 | 66 | 75.0% | 12 | 13.6% | 10 | 11.4% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 26 | 15 | 57.7% | 4 | 15.4% | 7 | 26.9% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric transplant hepatology | 11 | 8 | 72.7% | 1 | 9.1% | 2 | 18.2% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric hospital medicine | 115 | 100 | 87.0% | 4 | 3.5% | 11 | 9.6% | 0 | 0.0% | 0 | 0.0% |
| Physical medicine and rehabilitation | 1,510 | 847 | 56.1% | 132 | 8.7% | 531 | 35.2% | 0 | 0.0% | 0 | 0.0% |
| - Brain injury medicine | 17 | 9 | 52.9% | 4 | 23.5% | 4 | 23.5% | 0 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 1 | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Spinal cord injury medicine | 19 | 13 | 68.4% | 5 | 26.3% | 1 | 5.3% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric rehabilitation medicine | 30 | 20 | 66.7% | 3 | 10.0% | 7 | 23.3% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 33 | 22 | 66.7% | 5 | 15.2% | 6 | 18.2% | 0 | 0.0% | 0 | 0.0% |
| Plastic surgery | 214 | 146 | 68.2% | 45 | 21.0% | 23 | 10.2% | 0 | 0.0% | 0 | 0.0% |
| Plastic surgery - integrated | 1,009 | 953 | 94.4% | 47 | 4.7% | 9 | 0.9% | 0 | 0.0% | 0 | 0.0% |
| - Craniofacial surgery | 7 | 5 | 71.4% | 2 | 28.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 23 | 17 | 73.9% | 3 | 13.0% | 0 | 0.0% | 2 | 8.7% | 1 | 4.3% |
| Preventive medicine | 350 | 227 | 64.9% | 57 | 16.3% | 65 | 18.6% | 1 | 0.3% | 0 | 0.0% |
| | | | | 0 | | 0 | | 0 | | 0 | |
| - Medical toxicology | 3 | 3 | 100.0% | - | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | _ | 1 276 | 100.0% | 1 910 | 0.0% | - | 0.0% | 2 | 0.0% | - | 0.0% |
| Psychiatry | 6,976 | 4,376 | 62.7% | 1,318 | 18.9% | 1,280 | 18.3% | | 0.0% | 0 | 0.0% |
| - Addiction medicine (multidisciplinary) | 129 | 76 | 58.9% | 26 28 | 20.2% | 26 | 20.2% | 1 | 0.8% | 0 | 0.0% |
| - Addiction psychiatry | 86 | 44 | 51.2% | _ | 32.6% | 13 | 15.1% | 1 | 1.2% | 0 | 0.0% |
| - Child and adolescent psychiatry | 919 | 503 | 54.7% | 261 | 28.4% | 154 | 16.8% | 1 | 0.1% | 0 | 0.0% |
| - Forensic psychiatry | 80 | 55 21 | 68.8% | 16 | 20.0% | 9 | 11.3% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric psychiatry | 44 82 | | 47.7% | 19 | 43.2% | 4 | 9.1% | 0 | 0.0% | 0 | 0.0% |
| - Consultation-liaison psychiatry | | 51 | 62.2% | | 24.4% | 10 | 12.2% | 1 | 1.2% | 0 | 0.0% |
| Radiation oncology | 773 | 736 | 95.2% | 24 | 3.1% | 13 | 1.7% | 0 | 0.0% | 0 | 0.0% |
| Radiology-diagnostic | 4,557 | 3,314 | 72.7% | 621 | 13.6% | 621 | 13.6% | 1 | 0.0% | 0 | 0.0% |
| - Abdominal radiology | 46 | 19 | 41.3% | 17 | 37.0% | 1 | 2.2% | 9 | 19.6% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 2 | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Musculoskeletal radiology | 40 | 27 | 67.5% | 9 | 22.5% | 3 | 7.5% | 1 | 2.5% | 0 | 0.0% |
| - Neuroradiology | 272 | 171 | 62.9% | 77 | 28.3% | 21 | 7.7% | 3 | 1.1% | 0 | 0.0% |
| - Nuclear radiology | 7 | 4 | 57.1% | 3 | 42.9% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric radiology | 51 | 31 | 60.8% | 9 | 17.6% | 11 | 21.6% | 0 | 0.0% | 0 | 0.0% |
| Interventional radiology - independent | 184 | 122 | 66.3% | 42 | 22.8% | 19 | 10.3% | 1 | 0.5% | 0 | 0.0% |
| Interventional radiology - integrated | 591 | 521 | 88.2% | 24 | 4.1% | 46 | 7.8% | 0 | 0.0% | 0 | 0.0% |
| Surgery | 9,063 | 6,390 | 70.5% | 1,421 | 15.7% | 1,242 | 13.7% | 7 | 0.1% | 3 | 0.0% |
| - Complex general surgical oncology | 120 | 101 | 84.2% | 14 | 11.7% | 4 | 3.3% | 1 | 0.8% | 0 | 0.0% |
| - Hand surgery | 7 | 3 | 42.9% | 3 | 42.9% | 1 | 14.3% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric surgery | 86 | 73 | 84.9% | 10 | 11.6% | 3 | 3.5% | 0 | 0.0% | 0 | 0.0% |
| - Surgical critical care | 299 | 217 | 72.6% | 40 | 13.4% | 41 | 13.7% | 1 | 0.3% | 0 | 0.0% |
| - Vascular surgery | 255 | 176 | 69.0% | 45 | 17.6% | 34 | 13.3% | 0 | 0.0% | 0 | 0.0% |
| Vascular surgery - integrated | 332 | 292 | 88.0% | 24 | 7.2% | 14 | 4.2% | 1 | 0.3% | 1 | 0.3% |
| Thoracic surgery | 243 | 176 | 72.4% | 51 | 21.0% | 15 | 6.2% | 1 | 0.4% | 0 | 0.0% |
| - Congenital cardiac surgery | 11 | 10 | 90.9% | 0 | 0.0% | 1 | 9.1% | 0 | 0.0% | 0 | 0.0% |
| Thoracic surgery - integrated | 203 | 180 | 88.7% | 18 | 8.9% | 5 | 2.5% | 0 | 0.0% | 0 | 0.0% |
| Urology | 1,768 | 1,591 | 90.0% | 63 | 3.6% | 114 | 6.4% | 0 | 0.0% | 0 | 0.0% |
| - Female pelvic medicine and reconstructive surgery | 37 | 30 | 81.1% | 5 | 13.5% | 2 | 5.4% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric urology | 18 | 16 | 88.9% | 1 | 5.6% | 0 | 0.0% | 1 | 5.6% | 0 | 0.0% |
| Transitional year | 1,693 | 1,075 | 63.5% | 190 | 11.2% | 428 | 25.3% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine/Pediatrics | 1,510 | 1,247 | 82.6% | 122 | 8.1% | 141 | 9.3% | 0 | 0.0% | 0 | 0.0% |

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



| A DT | | |
|------|--|--|
| | | |
| | | |

| | | Total Residents | | | | | |
|----------------------|--------------------|-----------------|--|---------------------------------|-------------------------------|----------------------------|------------------------------|
| State Name | State Abbreviation | | US LCME- Accredited Medical School | International Medical School | Osteopathic Medical School | Canadian Medical School | US Medical School Unknown |
| OVERALL | - | 149,200 | 89,352 | 34,345 | 25,342 | 132 | 29 |
| Alabama | AL | 1,669 | 1,089 | 371 | 208 | 1 | 0 |
| Alaska | AK | 37 | 23 | 2 | 12 | 0 | 0 |
| Arizona | AZ | 2,088 | 1,220 | 378 | 489 | 1 | 0 |
| Arkansas | AR | 1,041 | 539 | 365 | 137 | 0 | 0 |
| California | CA | 13,646 | 10,441 | 1,570 | 1,612 | 22 | 1 |
| Colorado | CO | 1,726 | 1,329 | 81 | 316 | 0 | 0 |
| Connecticut | CT | 2,524 | 1,390 | 877 | 256 | 1 | 0 |
| Delaware | DE | 378 | 188 | 59 | 131 | 0 | 0 |
| District of Columbia | DC | 1,773 | 1,152 | 501 | 120 | 0 | 0 |
| Florida | FL | 7,583 | 3,479 | 2,436 | 1,663 | 1 | 4 |
| Georgia | GA | 3,056 | 1,892 | 744 | 416 | 3 | 1 |
| Hawaii | HI | 462 | 294 | 77 | 91 | 0 | 0 |
| Idaho | ID | 174 | 87 | 31 | 56 | 0 | 0 |
| Illinois | IL | 6,916 | 4,107 | 1,662 | 1,141 | 3 | 3 |
| | | | - | | - | | |
| Indiana | IN | 1,575 | 965 | 247 | 363 | 0 | 0 |
| Iowa | IA | 1,025 | 616 | 205 | 204 | 0 | 0 |
| Kansas | KS | 893 | 555 | 143 | 195 | 0 | 0 |
| Kentucky | KY | 1,577 | 906 | 306 | 362 | 0 | 3 |
| Louisiana | LA | 2,322 | 1,457 | 679 | 184 | 2 | 0 |
| Maine | ME | 349 | 215 | 39 | 94 | 0 | 1 |
| Maryland | MD | 3,350 | 2,335 | 727 | 278 | 8 | 2 |
| Massachusetts | MA | 5,934 | 4,323 | 1,194 | 386 | 29 | 2 |
| Michigan | MI | 7,432 | 3,145 | 2,079 | 2,202 | 6 | 0 |
| Minnesota | MN | 2,420 | 1,778 | 428 | 209 | 5 | 0 |
| Mississippi | MS | 871 | 479 | 175 | 217 | 0 | 0 |
| Missouri | MO | 3,207 | 2,072 | 609 | 522 | 3 | 1 |
| Montana | MT | 82 | 43 | 10 | 29 | 0 | 0 |
| Nebraska | NE | 870 | 482 | 238 | 150 | 0 | 0 |
| Nevada | NV | 884 | 329 | 193 | 362 | 0 | 0 |
| New Hampshire | NH | 461 | 334 | 83 | 44 | 0 | 0 |
| New Jersey | NJ | 3,966 | 1,209 | 1,689 | 1,067 | 1 | 0 |
| New Mexico | NM | 695 | 419 | 139 | 137 | 0 | 0 |
| New York | NY | 18,944 | 9,465 | 7,188 | 2,269 | 15 | 7 |
| North Carolina | NC | 4,010 | 2,983 | 412 | 611 | 4 | 0 |
| North Dakota | ND | 178 | 87 | 77 | 14 | 0 | 0 |
| Ohio | OH | 7,421 | 3,979 | 1,556 | 1,880 | 3 | 3 |
| Oklahoma | OK | 1,242 | 502 | 168 | 571 | 1 | 0 |
| Oregon | OR | 1,070 | 770 | 94 | 206 | 0 | 0 |
| Pennsylvania | PA | 9,465 | 5,179 | 2,092 | 2,186 | 7 | 1 |
| Puerto Rico | PR | 963 | 599 | 363 | 1 | 0 | 0 |
| Rhode Island | RI | 899 | 656 | 160 | 82 | 1 | 0 |
| | | | | | | | |
| South Carolina | SC | 1,691 | 1,154 | 154 | 383 | 0 | 0 |
| South Dakota | SD | 161 | 79 | 41 | 41 | 0 | 0 |
| Tennessee | TN | 2,687 | 1,988 | 410 | 287 | 2 | 0 |
| Texas | TX | 9,910 | 6,472 | 1,936 | 1,496 | 6 | 0 |
| Utah | UT | 897 | 765 | 60 | 69 | 3 | 0 |
| Vermont | VT | 328 | 262 | 37 | 29 | 0 | 0 |
| Virginia | VA | 2,992 | 1,863 | 462 | 667 | 0 | 0 |
| Washington | WA | 2,231 | 1,766 | 129 | 333 | 3 | 0 |
| West Virginia | WV | 989 | 450 | 311 | 228 | 0 | 0 |
| Wisconsin | WI | 2,094 | 1,436 | 341 | 316 | 1 | 0 |
| Wyoming | WY | 42 | 5 | 17 | 20 | 0 | 0 |

| т | 4 D | C | 10 |
|---|-----|-------|----|

| | | | N | Aedical School Typ | oe | |
|--|----------------------|---|---------------------------------|-------------------------------|----------------------------|--------------------------------|
| Specialty | OVERALL Age (Avg) | US LCME - Accredited Medical School | International Medical School | Osteopathic Medical School | Canadian Medical School | US Medica School Unknown |
| OVERALL | 30.8 | 30.1 | 32.6 | 30.5 | 32.8 | 32.9 |
| TOTAL PIPELINE | 29.8 | 29.1 | 31.5 | 29.8 | 30.2 | 32.3 |
| Allergy and immunology | 32.7 | 32.3 | 33.8 | 33.2 | | |
| Anesthesiology | 29.5 | 29.1 | 32.4 | 29.6 | 33.0 | 27.5 |
| - Adult cardiothoracic anesthesiology | 33.3 | 32.8 | 35.4 | 33.3 | 32.0 | |
| - Clinical informatics | | | | | | |
| - Critical care medicine | 34.6 | 34.7 | 34.6 | 33.9 | 34.5 | |
| - Regional anesthesiology and acute pain medicine | 32.8 | 32.5 | 34.2 | 32.4 | | |
| - Obstetric anesthesiology | 33.4 | 33.2 | 34.0 | 33.7 | 33.0 | |
| - Pain medicine (multidisciplinary) | 33.4 | 32.8 | 35.4 | 34.0 | 33.0 | |
| - Pediatric anesthesiology | 33.5 | 33.3 | 33.7 | 34.0 | | |
| Colon and rectal surgery | 34.2 | 34.0 | 35.4 | 34.0 | 32.0 | |
| Dermatology | 30.0 | 29.7 | 33.5 | 31.0 | | |
| - Dermatopathology (multidisciplinary) | 34.7 | 33.7 | 37.9 | 35.6 | 30.0 | |
| - Micrographic surgery and dermatologic oncology | 34.1 | 34.0 | 39.0 | 33.0 | | |
| Emergency medicine | 29.6 | 29.2 | 31.4 | 30.1 | | |
| - Clinical informatics | 34.4 | 36.0 | 32.3 | | | |
| - Emergency medical services | 33.7 | 33.7 | 33.6 | 33.8 | | |
| - Medical toxicology | 33.5 | 33.1 | 35.3 | 34.2 | | |
| - Pediatric emergency medicine | 32.1 | 31.4 | 33.9 | 32.1 | | |
| - Sports medicine | 31.3 | 31.0 | 32.0 | 31.5 | | |
| - Undersea and hyperbaric medicine | 35.3 | 35.6 | 36.0 | 33.5 | | |
| Family medicine | 30.6 | 29.6 | 32.7 | 30.1 | 30.0 | 28.0 |
| - Clinical informatics | 33.0 | 32.8 | 33.5 | | 0 010 | |
| - Geriatric medicine | 34.4 | 33.9 | 35.5 | 32.0 | | |
| - Hospice and palliative medicine (multidisciplinary) | 36.1 | 36.2 | 36.4 | 34.9 | 49.0 | |
| - Sports medicine | 32.9 | 32.3 | 33.5 | 33.3 | | |
| Internal medicine | 29.6 | 28.8 | 30.8 | 29.4 | 27.3 | 31.1 |
| - Adult congenital heart disease | 34.6 | 34.7 | 34.3 | 34.7 | | |
| - Advanced heart failure and transplant cardiology | 34.9 | 33.8 | 36.3 | 34.6 | 33.0 | |
| - Cardiovascular disease | 32.1 | 31.5 | 33.0 | 32.0 | 0010 | |
| - Clinical cardiac electrophysiology | 34.9 | 34.5 | 35.9 | 33.7 | 33.0 | |
| - Clinical informatics | 33.7 | 32.5 | 39.7 | 33.3 | 00.0 | |
| - Critical care medicine | 34.1 | 33.6 | 34.8 | 33.1 | | |
| - Endocrinology, diabetes, and metabolism | 32.9 | 32.1 | 33.4 | 32.7 | | |
| - Gastroenterology | 31.9 | 31.4 | 32.9 | 32.1 | | |
| - Geriatric medicine | 34.4 | 33.4 | 35.1 | 33.4 | | |
| - Hematology | 31.1 | 31.3 | 30.5 | 00.1 | | |
| - Hematology - Hematology and medical oncology | 32.7 | 32.3 | 33.2 | 32.5 | 28.0 | |
| - Infectious disease | 33.2 | 32.6 | 33.9 | 33.0 | 33.5 | 29.0 |
| - Interventional cardiology | 35.2 | 34.6 | 35.7 | 35.2 | 34.0 | 35.0 |
| - Nephrology | 34.6 | 32.6 | 35.4 | 33.4 | 44.0 | 55.0 |
| - Medical oncology | 32.7 | 31.8 | 33.6 | 34.0 | 11.0 | |
| - Pulmonary disease | 34.2 | 31.0 | 34.4 | 33.5 | | |
| - Pulmonary disease and critical care medicine | 32.3 | 31.8 | 33.1 | 32.1 | | |
| - Rheumatology | 32.2 | 31.5 | 32.8 | 32.3 | | |
| - Sleep medicine (multidisciplinary) | 35.0 | 33.9 | 36.2 | 34.1 | 30.0 | |
| - Transplant hepatology | 35.1 | 34.8 | 35.6 | 36.5 | 30.0 | |
| Medical genetics and genomics | 36.4 | 34.9 | 40.0 | 34.0 | | |
| - Medical biochemical genetics | 35.3 | 32.8 | 37.4 | 35.0 | | |
| Medical biochemical genetics Molecular genetic pathology (multidisciplinary) | 35.3 | 35.6 | 40.0 | 39.0 | | |
| Neurological surgery | 29.2 | 29.0 | | | | |
| - Endovascular surgical neuroradiology | 36.0 | 36.0 | 31.3 | 30.5 | | |

| TADIE | 0 1 | 10 | C | 7 |
|-------|-----|----|---|-------|
| | | | | |

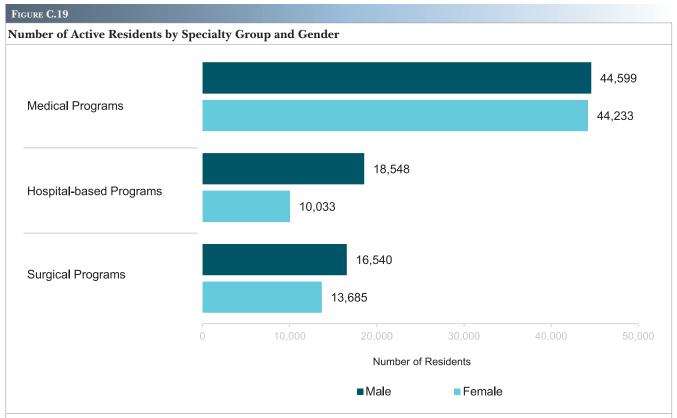
| | | Medical School Type | | | | | | | | |
|--|----------------------|---|---------------------------------|-------------------------------|----------------------------|---------------------------------|--|--|--|--|
| Specialty | OVERALL Age (Avg) | US LCME - Accredited Medical School | International Medical School | Osteopathic Medical School | Canadian Medical School | US Medical School Unknown | | | | |
| Neurology | 30.1 | 29.4 | 31.3 | 29.8 | 26.0 | | | | | |
| - Brain injury medicine | 31.0 | 31.0 | | | | | | | | |
| - Clinical neurophysiology | 34.2 | 32.8 | 36.9 | 34.1 | | | | | | |
| - Epilepsy | 34.5 | 34.2 | 35.2 | 33.8 | 29.0 | | | | | |
| - Endovascular surgical neuroradiology | 41.3 | 42.0 | 41.0 | | | | | | | |
| - Neurodevelopmental disabilities | 31.5 | 31.8 | 29.0 | 32.0 | | | | | | |
| - Neuromuscular medicine | 33.4 | 33.5 | 33.6 | 32.7 | 29.0 | | | | | |
| - Vascular neurology | 34.1 | 34.0 | 34.4 | 33.6 | 31.5 | | | | | |
| Child neurology | 30.9 | 30.5 | 32.4 | 31.7 | | | | | | |
| Nuclear medicine | 34.9 | 35.0 | 34.9 | | | | | | | |
| Obstetrics and gynecology | 28.7 | 28.4 | 31.0 | 28.7 | | 28.0 | | | | |
| - Female pelvic medicine and reconstructive surgery | 32.6 | 32.3 | 34.4 | 33.0 | | | | | | |
| - Gynecologic oncology | 32.5 | 32.4 | 35.7 | 32.3 | 31.0 | | | | | |
| - Maternal-fetal medicine | 32.8 | 32.4 | 34.3 | 34.0 | | | | | | |
| - Reproductive endocrinology and infertility | 32.3 | 32.1 | 35.3 | 32.0 | 34.0 | | | | | |
| - Complex family planning | 32.4 | 32.3 | 00.0 | 33.5 | 01.0 | | | | | |
| Ophthalmology | 29.6 | 29.4 | 34.0 | 30.0 | | | | | | |
| - Ophthalmic plastic and reconstructive surgery | 32.7 | 32.7 | 34.0 | 30.0 | | | | | | |
| Orthopaedic surgery | 28.6 | 28.5 | 31.1 | 29.4 | | | | | | |
| - Adult reconstructive orthopaedics | | | | | | | | | | |
| | 34.1 34.6 | 33.7 | 35.0 | 35.7 | 20.0 | | | | | |
| - Foot and ankle orthopaedics | | 34.4 | 39.0 | 0.4.0 | 30.0 | | | | | |
| - Hand surgery | 33.7 | 33.7 | 20.7 | 34.8 | 33.7 | | | | | |
| - Musculoskeletal oncology | 35.6 | 34.7 | 39.7 | 0.4.0 | 24.0 | | | | | |
| - Orthopaedic sports medicine | 33.9 | 33.6 | 37.9 | 34.3 | 34.0 | | | | | |
| - Orthopaedic surgery of the spine | 34.0 | 33.5 | 34.0 | 36.0 | 20.0 | | | | | |
| - Orthopaedic trauma | 33.7 | 33.7 | 37.0 | 32.7 | 32.0 | | | | | |
| - Pediatric orthopaedics | 33.7 | 32.8 | 37.7 | 33.0 | 36.0 | | | | | |
| Osteopathic neuromusculoskeletal medicine | 31.3 | 22.2 | 20.2 | 31.3 | | | | | | |
| Otolaryngology - head and neck surgery | 28.4 | 28.3 | 30.6 | 29.4 | | | | | | |
| - Neurotology | 34.7 | 34.8 | | | 33.0 | | | | | |
| - Pediatric otolaryngology | 34.0 | 33.6 | 36.8 | 32.0 | 31.0 | | | | | |
| Pathology-anatomic and clinical | 32.6 | 31.0 | 34.3 | 31.2 | | 44.0 | | | | |
| - Blood banking/transfusion medicine | 36.2 | 34.9 | 39.2 | 34.3 | | | | | | |
| - Clinical informatics | 38.0 | 38.6 | 35.5 | | | | | | | |
| - Chemical pathology | | | | | | | | | | |
| - Cytopathology | 35.9 | 34.4 | 37.5 | 34.3 | 32.0 | | | | | |
| - Forensic pathology | 35.2 | 34.9 | 36.3 | 34.6 | 35.5 | | | | | |
| - Hematopathology | 37.0 | 35.2 | 39.1 | 34.4 | 33.5 | | | | | |
| - Medical microbiology | 34.0 | 34.1 | 33.8 | 34.0 | | | | | | |
| - Neuropathology | 34.6 | 33.3 | 37.3 | 35.0 | | | | | | |
| - Pediatric pathology | 34.4 | 32.9 | 41.0 | 32.0 | 33.0 | | | | | |
| - Selective pathology | 36.7 | 33.8 | 38.7 | 32.8 | 35.0 | | | | | |
| Pediatrics | 29.0 | 28.5 | 30.4 | 28.9 | 32.0 | 27.0 | | | | |
| - Adolescent medicine | 32.4 | 32.1 | 37.0 | 31.2 | | | | | | |
| - Child abuse pediatrics | 31.4 | 32.5 | 30.0 | 30.5 | | | | | | |
| - Clinical informatics | 33.6 | 33.6 | | | | | | | | |
| - Developmental-behavioral pediatrics | 34.7 | 34.4 | 36.4 | 32.5 | | | | | | |
| - Neonatal-perinatal medicine | 32.7 | 31.9 | 34.3 | 32.4 | 31.0 | | | | | |
| - Pediatric cardiology | 31.9 | 31.7 | 32.5 | 32.1 | 22.0 | | | | | |
| - Pediatric critical care medicine | 31.9 | 31.7 | 32.7 | 31.9 | | | | | | |
| - Pediatric emergency medicine | 32.1 | 32.0 | 33.1 | 31.9 | | | | | | |
| - Pediatric endocrinology | 32.0 | 31.1 | 33.1 | 32.2 | | | | | | |
| - Pediatric endocrinology - Pediatric gastroenterology | 31.5 | 31.4 | 31.6 | 31.5 | | | | | | |

Table C.18 Continued

| Mean Age of Year | 1 Residents by | y Specialty and | l Subspecialty and | d Medical School Type |
|------------------|----------------|-----------------|--------------------|-----------------------|
|------------------|----------------|-----------------|--------------------|-----------------------|

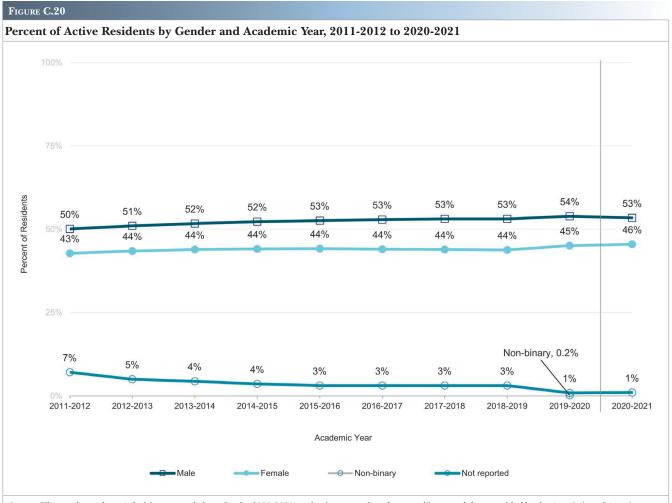
| | | Medical School Type | | | | | | | | |
|---|----------------------|---|---------------------------------|-------------------------------|----------------------------|---------------------------------|--|--|--|--|
| Specialty | OVERALL Age (Avg) | US LCME - Accredited Medical School | International Medical School | Osteopathic Medical School | Canadian Medical School | US Medical School Unknown | | | | |
| - Pediatric hematology/oncology | 32.4 | 32.2 | 33.3 | 32.1 | | | | | | |
| - Pediatric infectious diseases | 33.6 | 33.2 | 34.5 | 33.3 | | | | | | |
| - Pediatric nephrology | 32.7 | 31.2 | 35.2 | 34.3 | | 42.0 | | | | |
| - Pediatric pulmonology | 32.4 | 32.0 | 33.7 | 31.8 | | | | | | |
| - Pediatric rheumatology | 31.1 | 31.0 | 29.0 | 31.8 | | | | | | |
| - Sports medicine | 32.2 | 31.5 | 34.0 | 32.9 | | | | | | |
| - Pediatric transplant hepatology | 34.9 | 34.0 | 44.0 | 34.0 | | | | | | |
| - Pediatric hospital medicine | 31.2 | 31.1 | 33.0 | 31.0 | | | | | | |
| Physical medicine and rehabilitation | 30.2 | 29.7 | 34.2 | 30.1 | | | | | | |
| - Brain injury medicine | 33.3 | 32.0 | 36.0 | 33.5 | | | | | | |
| - Neuromuscular medicine | 32.0 | 32.0 | | | | | | | | |
| - Spinal cord injury medicine | 31.9 | 31.4 | 33.4 | 32.0 | | | | | | |
| - Pediatric rehabilitation medicine | 33.1 | 31.4 | 42.0 | 33.0 | | | | | | |
| - Sports medicine | 32.6 | 32.1 | 34.2 | 33.2 | | | | | | |
| Plastic surgery | 34.5 | 34.0 | 36.5 | 35.0 | | | | | | |
| Plastic surgery - integrated | 28.5 | 28.4 | 29.4 | 30.0 | | | | | | |
| - Craniofacial surgery | 34.0 | 34.2 | 33.5 | | | | | | | |
| - Hand surgery | 34.8 | 34.6 | 37.7 | | 31.0 | 37.0 | | | | |
| Preventive medicine | 37.3 | 37.3 | 39.5 | 35.0 | | | | | | |
| - Medical toxicology | 32.0 | 32.0 | | | | | | | | |
| - Undersea and hyperbaric medicine | 34.0 | 34.0 | | | | | | | | |
| Psychiatry | 30.2 | 29.6 | 32.9 | 29.9 | 30.0 | | | | | |
| - Addiction medicine (multidisciplinary) | 38.2 | 37.8 | 37.2 | 40.5 | 39.0 | | | | | |
| - Addiction psychiatry | 34.7 | 34.1 | 36.1 | 34.2 | 31.0 | | | | | |
| - Child and adolescent psychiatry | 33.7 | 32.8 | 35.2 | 33.8 | 01.0 | | | | | |
| - Forensic psychiatry | 34.3 | 34.2 | 34.4 | 34.8 | | | | | | |
| - Geriatric psychiatry | 34.9 | 33.8 | 36.2 | 34.5 | | | | | | |
| - Consultation-liaison psychiatry | 33.4 | 33.0 | 34.7 | 33.3 | 32.0 | | | | | |
| Radiation oncology | 30.4 | 30.2 | 34.0 | 34.0 | 34.0 | | | | | |
| Radiology-diagnostic | 30.4 | 30.0 | 32.1 | 30.9 | 30.0 | | | | | |
| - Abdominal radiology | 34.4 | 33.7 | 36.1 | 37.0 | 32.4 | | | | | |
| - Endovascular surgical neuroradiology | 34.5 | 34.0 | 35.0 | 37.0 | 34.4 | | | | | |
| - Musculoskeletal radiology | 34.9 | 34.6 | 37.0 | 33.0 | 31.0 | | | | | |
| - Neuroradiology | 34.9 | 34.1 | 36.6 | 35.1 | 37.3 | | | | | |
| - Nuclear radiology | 35.9 | 32.5 | 40.3 | 33.1 | 37.3 | | | | | |
| - Pediatric radiology | 34.6 | 34.2 | 35.4 | 35.4 | | | | | | |
| Interventional radiology - independent | 34.6 | 34.0 | 36.0 | 34.8 | 34.0 | | | | | |
| Interventional radiology - integrated | 29.8 | 29.8 | 28.0 | 30.0 | 34.0 | | | | | |
| Surgery | 29.4 | 29.0 | 31.0 | 29.7 | | 37.3 | | | | |
| - Complex general surgical oncology | 35.1 | 35.1 | 36.0 | 36.0 | 32.0 | 37.3 | | | | |
| - Hand surgery | 33.9 | 35.0 | 33.7 | 31.0 | 32.0 | | | | | |
| - Pediatric surgery | 35.5 | 35.6 | 34.6 | 38.0 | | | | | | |
| - Fediatric surgery - Surgical critical care | 35.4 | 35.2 | 36.0 | 35.7 | 31.0 | | | | | |
| - Vascular surgery | 34.0 | 33.9 | 34.9 | 33.5 | 31.0 | | | | | |
| - vascular surgery Vascular surgery - integrated | 29.1 | 28.5 | 34.9 | 29.0 | 35.0 | 43.0 | | | | |
| Thoracic surgery | 34.9 | 34.9 | 36.4 | 33.2 | 31.0 | 43.0 | | | | |
| - Congenital cardiac surgery | 36.8 | 37.1 | 30.4 | 34.0 | 31.0 | | | | | |
| | | | 99 5 | | | | | | | |
| Thoracic surgery - integrated | 28.5 | 28.3 | 28.5 | 34.0 | | | | | | |
| Urology | 28.5 | 28.4 | 30.8 | 29.2 | | | | | | |
| - Female pelvic medicine and reconstructive surgery | 33.0 | 32.6 | 34.0 | 34.0 | 95.0 | | | | | |
| - Pediatric urology | 34.4 | 34.4 | 34.0 | 90.0 | 35.0 | | | | | |
| Transitional year | 29.5 | 28.9 | 32.5 | 29.8 | | | | | | |
| Internal medicine/Pediatrics | 28.6 | 28.4 | 30.4 | 29.2 | | | | | | |

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



Note: Not shown are those residents for which gender is not reported (n=1,560) and non-binary (n=2).

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



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

| | | 91 |
|--|--|----|
| | | |

| Number of Active Residents by Special | y and Sul | ospecialty T | and Ge | ender | | | | | | |
|---|-----------|-----------------|--------|-------|--------|--------|-------|--------|--------------|------|
| | | | | | | | | | | |
| | Total | Total | Fen | nale | M | ale | Non-l | oinary | Not Reported | |
| Specialty | Programs | Residents | # | % | # | % | # | % | # | % |
| OVERALL | 12,420 | 149,200 | 67,951 | 45.5% | 79,687 | 53.4% | 2 | 0.0% | 1,560 | 1.0% |
| TOTAL PIPELINE | 5,187 | 121,110 | 55,459 | 45.8% | 64,197 | 53.0% | 1 | 0.0% | 1,453 | 1.2% |
| Allergy and immunology | 82 | 312 | 193 | 61.9% | 118 | 37.8% | 0 | 0.0% | 1 | 0.3% |
| Anesthesiology | 161 | 6,895 | 2,264 | 32.8% | 4,601 | 66.7% | 1 | 0.0% | 29 | 0.4% |
| - Adult cardiothoracic anesthesiology | 73 | 235 | 73 | 31.1% | 161 | 68.5% | 0 | 0.0% | 1 | 0.4% |
| - Clinical informatics | 1 | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 64 | 194 | 65 | 33.5% | 129 | 66.5% | 0 | 0.0% | 0 | 0.0% |
| - Regional anesthesiology and acute pain medicine | 38 | 77 | 26 | 33.8% | 50 | 64.9% | 0 | 0.0% | 1 | 1.3% |
| - Obstetric anesthesiology | 41 | 48 | 28 | 58.3% | 19 | 39.6% | 0 | 0.0% | 1 | 2.1% |
| - Pain medicine (multidisciplinary) | 111 | 400 | 104 | 26.0% | 295 | 73.8% | 0 | 0.0% | 1 | 0.3% |
| - Pediatric anesthesiology | 60 | 185 | 89 | 48.1% | 95 | 51.4% | 0 | 0.0% | 1 | 0.5% |
| Colon and rectal surgery | 66 | 105 | 40 | 38.1% | 65 | 61.9% | 0 | 0.0% | 0 | 0.0% |
| Dermatology | 144 | 1,612 | 944 | 58.6% | 663 | 41.1% | 0 | 0.0% | 5 | 0.3% |
| - Dermatopathology (multidisciplinary) | 58 | 69 | 37 | 53.6% | 32 | 46.4% | 0 | 0.0% | 0 | 0.0% |
| - Micrographic surgery and dermatologic oncology | 78 | 86 | 50 | 58.1% | 36 | 41.9% | 0 | 0.0% | 0 | 0.0% |
| Emergency medicine | 276 | 8,642 | 3,188 | 36.9% | 5,400 | 62.5% | 0 | 0.0% | 54 | 0.6% |
| - Clinical informatics | 5 | 10 | 1 | 10.0% | 9 | 90.0% | 0 | 0.0% | 0 | 0.0% |
| - Emergency medical services | 75 | 86 | 21 | 24.4% | 65 | 75.6% | 0 | 0.0% | 0 | 0.0% |
| - Medical toxicology | 27 | 79 | 27 | 34.2% | 52 | 65.8% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric emergency medicine | 27 | 134 | 90 | 67.2% | 42 | 31.3% | 0 | 0.0% | 2 | 1.5% |
| - Sports medicine | 9 | 16 | 1 | 6.3% | 15 | 93.8% | 0 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 8 | 11 | 6 | 54.5% | 5 | 45.5% | 0 | 0.0% | 0 | 0.0% |
| Family medicine | 710 | 14,225 | 7,558 | 53.1% | 6,489 | 45.6% | 0 | 0.0% | 178 | 1.3% |
| - Clinical informatics | 6 | 10 | 2 | 20.0% | 8 | 80.0% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 49 | 39 | 23 | 59.0% | 16 | 41.0% | 0 | 0.0% | 0 | 0.0% |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 401 | 247 | 61.6% | 154 | 38.4% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 156 | 278 | 90 | 32.4% | 188 | 67.6% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine | 586 | 30,087 | 12,749 | 42.4% | 16,645 | 55.3% | 0 | 0.0% | 693 | 2.3% |
| - Adult congenital heart disease | 24 | 28 | 12 | 42.9% | 15 | 53.6% | 0 | 0.0% | 1 | 3.6% |
| - Advanced heart failure and transplant cardiology | 82 | 101 | 36 | 35.6% | 64 | 63.4% | 0 | 0.0% | 1 | 1.0% |
| - Cardiovascular disease | 255 | 3,240 | 781 | 24.1% | 2,454 | 75.7% | 0 | 0.0% | 5 | 0.2% |
| - Clinical cardiac electrophysiology | 112 | 276 | 34 | 12.3% | 240 | 87.0% | 0 | 0.0% | 2 | 0.7% |
| - Clinical informatics | 19 | 36 | 10 | 27.8% | 26 | 72.2% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 55 | 280 | 82 | 29.3% | 198 | 70.7% | 0 | 0.0% | 0 | 0.0% |
| - Endocrinology, diabetes, and metabolism | 153 | 689 | 460 | 66.8% | 226 | 32.8% | 0 | 0.0% | 3 | 0.4% |
| - Gastroenterology | 211 | 1,844 | 681 | 36.9% | 1,162 | 63.0% | 0 | 0.0% | 1 | 0.1% |
| - Geriatric medicine | 114 | 272 | 177 | 65.1% | 93 | 34.2% | 0 | 0.0% | 2 | 0.7% |
| - Hematology | 2 | 18 | 9 | 50.0% | 9 | 50.0% | 0 | 0.0% | 0 | 0.0% |
| - Hematology and medical oncology | 172 | 1,895 | 846 | 44.6% | 1,045 | 55.1% | 0 | 0.0% | 4 | 0.2% |
| - Infectious disease | 158 | 763 | 357 | 46.8% | 403 | 52.8% | 0 | 0.0% | 3 | 0.4% |
| - Interventional cardiology | 170 | 355 | 53 | 14.9% | 301 | 84.8% | 0 | 0.0% | 1 | 0.3% |
| - Nephrology | 152 | 829 | 317 | 38.2% | 500 | 60.3% | 0 | 0.0% | 12 | 1.4% |
| - Medical oncology | 6 | 34 | 17 | 50.0% | 17 | 50.0% | 0 | 0.0% | 0 | 0.0% |
| - Pulmonary disease | 20 | 70 | 28 | 40.0% | 41 | 58.6% | 0 | 0.0% | 1 | 1.4% |
| - Pulmonary disease and critical care medicine | 188 | 2,085 | 727 | 34.9% | 1,357 | 65.1% | 0 | 0.0% | 1 | 0.0% |
| - Rheumatology | 125 | 520 | 306 | 58.8% | 213 | 41.0% | 0 | 0.0% | 1 | 0.2% |
| - Sleep medicine (multidisciplinary) | 89 | 190 | 87 | 45.8% | 103 | 54.2% | 0 | 0.0% | 0 | 0.0% |
| - Transplant hepatology | 59 | 47 | 25 | 53.2% | 22 | 46.8% | 0 | 0.0% | 0 | 0.0% |
| Medical genetics and genomics | 46 | 68 | 38 | 55.9% | 28 | 41.2% | 0 | 0.0% | 2 | 2.9% |
| - Medical biochemical genetics | 20 | 14 | 8 | 57.1% | 6 | 42.9% | 0 | 0.0% | 0 | 0.0% |
| - Molecular genetic pathology (multidisciplinary) | 42 | 57 | 26 | 45.6% | 31 | 54.4% | 0 | 0.0% | 0 | 0.0% |
| Neurological surgery | 116 | 1,561 | 318 | 20.4% | 1,237 | 79.2% | 0 | 0.0% | 6 | 0.4% |
| - Endovascular surgical neuroradiology | 2 | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% |

Table C.21 Continued

| Number of Active Residents by Specials | y and Sul | bspecialty | and Ge | ender | | | | | | |
|--|-----------|------------|--------|-------|-------|--------|------|--------|--------|--------|
| | | | | | | Gen | der | | | |
| | Total | Total | Fen | nale | M | ale | Non- | binary | Not Re | ported |
| Specialty | Programs | Residents | # | % | # | % | # | % | # | % |
| Neurology | 170 | 3,221 | 1,497 | 46.5% | 1,686 | 52.3% | 0 | 0.0% | 38 | 1.2% |
| - Brain injury medicine | 1 | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical neurophysiology | 93 | 143 | 59 | 41.3% | 84 | 58.7% | 0 | 0.0% | 0 | 0.0% |
| - Epilepsy | 85 | 134 | 67 | 50.0% | 67 | 50.0% | 0 | 0.0% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 2 | 3 | 0 | 0.0% | 3 | 100.0% | 0 | 0.0% | 0 | 0.0% |
| - Neurodevelopmental disabilities | 8 | 26 | 14 | 53.8% | 12 | 46.2% | 0 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 53 | 74 | 27 | 36.5% | 46 | 62.2% | 0 | 0.0% | 1 | 1.4% |
| - Vascular neurology | 109 | 162 | 64 | 39.5% | 97 | 59.9% | 0 | 0.0% | 1 | 0.6% |
| Child neurology | 77 | 419 | 288 | 68.7% | 129 | 30.8% | 0 | 0.0% | 2 | 0.5% |
| Nuclear medicine | 37 | 69 | 23 | 33.3% | 43 | 62.3% | 0 | 0.0% | 3 | 4.3% |
| Obstetrics and gynecology | 294 | 5,769 | 4,878 | 84.6% | 856 | 14.8% | 0 | 0.0% | 35 | 0.6% |
| - Female pelvic medicine and reconstructive surgery | 54 | 146 | 111 | 76.0% | 35 | 24.0% | 0 | 0.0% | 0 | 0.0% |
| - Gynecologic oncology | 63 | 221 | 166 | 75.1% | 55 | 24.9% | 0 | 0.0% | 0 | 0.0% |
| - Maternal-fetal medicine | 100 | 391 | 308 | 78.8% | 83 | 21.2% | 0 | 0.0% | 0 | 0.0% |
| - Reproductive endocrinology and infertility | 49 | 166 | 130 | 78.3% | 35 | 21.1% | 1 | 0.6% | 0 | 0.0% |
| - Complex family planning | 26 | 32 | 31 | 96.9% | 1 | 3.1% | 0 | 0.0% | 0 | 0.0% |
| Ophthalmology | 125 | 1,531 | 621 | 40.6% | 908 | 59.3% | 0 | 0.0% | 2 | 0.1% |
| - Ophthalmic plastic and reconstructive surgery | 4 | 3 | 1 | 33.3% | 2 | 66.7% | 0 | 0.0% | 0 | 0.0% |
| Orthopaedic surgery | 201 | 4,415 | 738 | 16.7% | 3,663 | 83.0% | 0 | 0.0% | 14 | 0.3% |
| - Adult reconstructive orthopaedics | 25 | 50 | 3 | 6.0% | 47 | 94.0% | 0 | 0.0% | 0 | 0.0% |
| - Foot and ankle orthopaedics | 7 | 17 | 3 | 17.6% | 14 | 82.4% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 73 | 155 | 49 | 31.6% | 105 | 67.7% | 0 | 0.0% | 1 | 0.6% |
| - Musculoskeletal oncology | 12 | 16 | 3 | 18.8% | 13 | 81.3% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic sports medicine | 93 | 211 | 22 | 10.4% | 188 | 89.1% | 0 | 0.0% | 1 | 0.5% |
| - Orthopaedic surgery of the spine | 16 | 25 | 2 | 8.0% | 23 | 92.0% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic trauma | 12 | 20 | 5 | 25.0% | 15 | 75.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric orthopaedics | 25 | 34 | 14 | 41.2% | 20 | 58.8% | 0 | 0.0% | 0 | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 28 | 68 | 34 | 50.0% | 34 | 50.0% | 0 | 0.0% | 0 | 0.0% |
| Otolaryngology - head and neck surgery | 125 | 1,723 | 643 | 37.3% | 1,075 | 62.4% | 0 | 0.0% | 5 | 0.3% |
| - Neurotology | 26 | 36 | 12 | 33.3% | 24 | 66.7% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric otolaryngology | 31 | 34 | 18 | 52.9% | 15 | 44.1% | 0 | 0.0% | 1 | 2.9% |
| Pathology-anatomic and clinical | 144 | 2,346 | 1,184 | 50.5% | 1,124 | 47.9% | 0 | 0.0% | 38 | 1.6% |
| - Blood banking/transfusion medicine | 52 | 52 | 32 | 61.5% | 20 | 38.5% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 11 | 19 | 5 | 26.3% | 14 | 73.7% | 0 | 0.0% | 0 | 0.0% |
| - Chemical pathology | 4 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Cytopathology | 93 | 127 | 62 | 48.8% | 64 | 50.4% | 0 | 0.0% | 1 | 0.8% |
| - Forensic pathology | 45 | 49 | 31 | 63.3% | 18 | 36.7% | 0 | 0.0% | 0 | 0.0% |
| - Hematopathology | 86 | 117 | 52 | 44.4% | 65 | 55.6% | 0 | 0.0% | 0 | 0.0% |
| - Medical microbiology | 15 | 16 | 4 | 25.0% | 12 | 75.0% | 0 | 0.0% | 0 | 0.0% |
| - Neuropathology | 38 | 53 | 24 | 45.3% | 28 | 52.8% | 0 | 0.0% | 1 | 1.9% |
| - Pediatric pathology | 28 | 21 | 14 | 66.7% | 7 | 33.3% | 0 | 0.0% | 0 | 0.0% |
| - Selective pathology | 109 | 176 | 85 | 48.3% | 89 | 50.6% | 0 | 0.0% | 2 | 1.1% |
| Pediatrics | 210 | 9,419 | 6,698 | 71.1% | 2,540 | 27.0% | 0 | 0.0% | 181 | 1.9% |
| - Adolescent medicine | 32 | 97 | 79 | 81.4% | 18 | 18.6% | 0 | 0.0% | 0 | 0.0% |
| - Child abuse pediatrics | 31 | 44 | 40 | 90.9% | 4 | 9.1% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 8 | 19 | 6 | 31.6% | 13 | 68.4% | 0 | 0.0% | 0 | 0.0% |
| - Developmental-behavioral pediatrics | 44 | 114 | 98 | 86.0% | 16 | 14.0% | 0 | 0.0% | 0 | 0.0% |
| Neonatal-perinatal medicine | 107 | 783 | 571 | 72.9% | 208 | 26.6% | 0 | 0.0% | 4 | 0.5% |
| - Pediatric cardiology | 64 | 468 | 240 | 51.3% | 226 | 48.3% | 0 | 0.0% | 2 | 0.4% |
| Pediatric cartilology Pediatric critical care medicine | 75 | 575 | 339 | 59.0% | 234 | 40.7% | 0 | 0.0% | 2 | 0.4% |
| - Pediatric emergency medicine | 55 | 434 | 296 | 68.2% | 138 | 31.8% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric endocrinology | 72 | 230 | 194 | 84.3% | 33 | 14.3% | 0 | 0.0% | 3 | 1.3% |
| - Pediatric endocrinology - Pediatric gastroenterology | 67 | 329 | 213 | 64.7% | 115 | 35.0% | 0 | 0.0% | 1 | 0.3% |

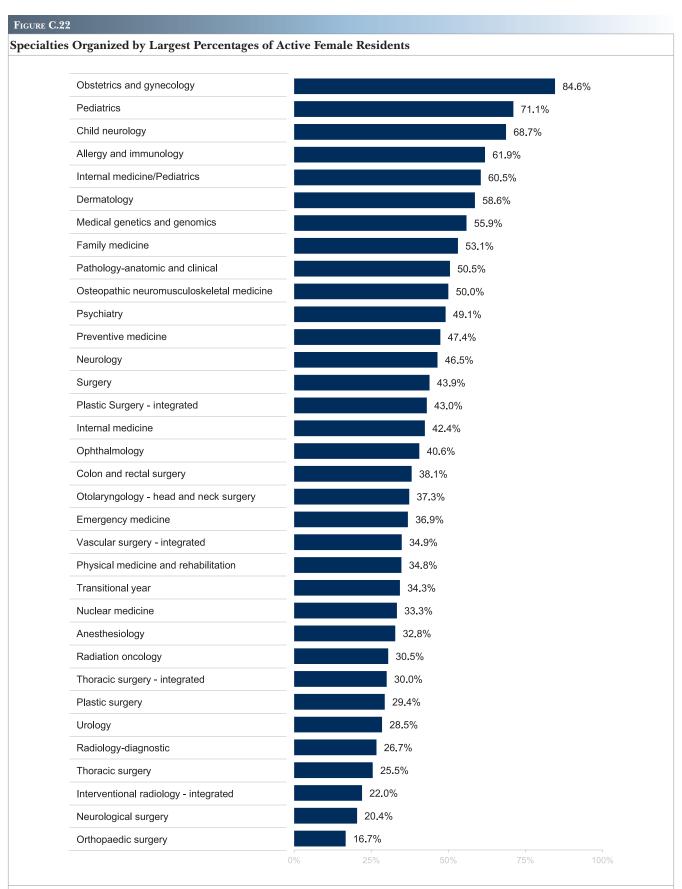
Table C.21 Continued

| Number of Active Residents l | oy S | pecialty | and Subs | pecialty | y and Gender |
|------------------------------|------|----------|----------|----------|--------------|
|------------------------------|------|----------|----------|----------|--------------|

| | | Total | Gender | | | | | | | | |
|--|----------|-----------|--------|-------|-------|--------|------------|------|-------------|------|--|
| | Total | | Female | | M | ale | Non-binary | | Not Reporte | | |
| Specialty | Programs | Residents | # | % | # | % | # | % | # | % | |
| - Pediatric hematology/oncology | 76 | 475 | 329 | 69.3% | 145 | 30.5% | 0 | 0.0% | 1 | 0.29 | |
| - Pediatric infectious diseases | 64 | 175 | 119 | 68.0% | 55 | 31.4% | 0 | 0.0% | 1 | 0.69 | |
| - Pediatric nephrology | 47 | 120 | 96 | 80.0% | 23 | 19.2% | 0 | 0.0% | 1 | 0.89 | |
| - Pediatric pulmonology | 56 | 176 | 110 | 62.5% | 62 | 35.2% | 0 | 0.0% | 4 | 2.39 | |
| - Pediatric rheumatology | 37 | 88 | 68 | 77.3% | 18 | 20.5% | 0 | 0.0% | 2 | 2.39 | |
| - Sports medicine | 17 | 26 | 10 | 38.5% | 16 | 61.5% | 0 | 0.0% | 0 | 0.09 | |
| - Pediatric transplant hepatology | 17 | 11 | 7 | 63.6% | 4 | 36.4% | 0 | 0.0% | 0 | 0.09 | |
| - Pediatric hospital medicine | 54 | 115 | 94 | 81.7% | 21 | 18.3% | 0 | 0.0% | 0 | 0.09 | |
| Physical medicine and rehabilitation | 98 | 1,510 | 525 | 34.8% | 981 | 65.0% | 0 | 0.0% | 4 | 0.39 | |
| - Brain injury medicine | 25 | 17 | 13 | 76.5% | 4 | 23.5% | 0 | 0.0% | 0 | 0.0 | |
| - Neuromuscular medicine | 1 | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0 | |
| - Spinal cord injury medicine | 24 | 19 | 6 | 31.6% | 13 | 68.4% | 0 | 0.0% | 0 | 0.0 | |
| - Pediatric rehabilitation medicine | 22 | 30 | 18 | 60.0% | 12 | 40.0% | 0 | 0.0% | 0 | 0.09 | |
| - Sports medicine | 21 | 33 | 15 | 45.5% | 18 | 54.5% | 0 | 0.0% | 0 | 0.09 | |
| Plastic surgery | 52 | 214 | 63 | 29.4% | 151 | 70.6% | 0 | 0.0% | 0 | 0.0 | |
| Plastic surgery - integrated | 86 | 1,009 | 434 | 43.0% | 571 | 56.6% | 0 | 0.0% | 4 | 0.4 | |
| - Craniofacial surgery | 8 | 7 | 5 | 71.4% | 2 | 28.6% | 0 | 0.0% | 0 | 0.0 | |
| - Gramoiaciai surgery - Hand surgery | 17 | 23 | 5 | 21.7% | 17 | 73.9% | 0 | 0.0% | 1 | 4.3 | |
| Preventive medicine | 72 | 350 | 166 | 47.4% | 182 | 52.0% | 0 | 0.0% | 2 | 0.6 | |
| | 1 | 3 | 100 | 33.3% | 2 | 66.7% | 0 | 0.0% | 0 | 0.0 | |
| Medical toxicology Undersea and hyperbaric medicine | 1 | 1 | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0 | |
| | 287 | | 3,428 | | | | 0 | | | | |
| Psychiatry A Living In the Company of the Company o | | 6,976 | | 49.1% | 3,472 | 49.8% | | 0.0% | 76 | 1.1 | |
| - Addiction medicine (multidisciplinary) | 85 | 129 | 59 | 45.7% | 69 | 53.5% | 0 | 0.0% | 1 | 0.8 | |
| - Addiction psychiatry | 53 | 86 | 26 | 30.2% | 59 | 68.6% | 0 | 0.0% | 1 | 1.2 | |
| Child and adolescent psychiatry | 146 | 919 | 514 | 55.9% | 405 | 44.1% | 0 | 0.0% | 0 | 0.0 | |
| - Forensic psychiatry | 49 | 80 | 47 | 58.8% | 33 | 41.2% | 0 | 0.0% | 0 | 0.0 | |
| Geriatric psychiatry | 64 | 44 | 32 | 72.7% | 12 | 27.3% | 0 | 0.0% | 0 | 0.0 | |
| - Consultation-liaison psychiatry | 64 | 82 | 41 | 50.0% | 41 | 50.0% | 0 | 0.0% | 0 | 0.0 | |
| Radiation oncology | 91 | 773 | 236 | 30.5% | 537 | 69.5% | 0 | 0.0% | 0 | 0.0 | |
| Radiology-diagnostic | 196 | 4,557 | 1,215 | 26.7% | 3,327 | 73.0% | 0 | 0.0% | 15 | 0.39 | |
| - Abdominal radiology | 13 | 46 | 13 | 28.3% | 32 | 69.6% | 0 | 0.0% | 1 | 2.2 | |
| - Endovascular surgical neuroradiology | 3 | 2 | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0 | |
| - Musculoskeletal radiology | 20 | 40 | 8 | 20.0% | 32 | 80.0% | 0 | 0.0% | 0 | 0.0 | |
| Neuroradiology | 89 | 272 | 59 | 21.7% | 207 | 76.1% | 0 | 0.0% | 6 | 2.2 | |
| - Nuclear radiology | 18 | 7 | 3 | 42.9% | 4 | 57.1% | 0 | 0.0% | 0 | 0.0 | |
| - Pediatric radiology | 48 | 51 | 24 | 47.1% | 27 | 52.9% | 0 | 0.0% | 0 | 0.0 | |
| Interventional radiology - independent | 95 | 184 | 27 | 14.7% | 155 | 84.2% | 0 | 0.0% | 2 | 1.1 | |
| Interventional radiology - integrated | 92 | 591 | 130 | 22.0% | 460 | 77.8% | 0 | 0.0% | 1 | 0.2 | |
| Surgery | 344 | 9,063 | 3,977 | 43.9% | 5,030 | 55.5% | 0 | 0.0% | 56 | 0.6 | |
| - Complex general surgical oncology | 31 | 120 | 43 | 35.8% | 77 | 64.2% | 0 | 0.0% | 0 | 0.0 | |
| - Hand surgery | 2 | 7 | 2 | 28.6% | 5 | 71.4% | 0 | 0.0% | 0 | 0.0 | |
| - Pediatric surgery | 51 | 86 | 47 | 54.7% | 39 | 45.3% | 0 | 0.0% | 0 | 0.0 | |
| - Surgical critical care | 145 | 299 | 131 | 43.8% | 168 | 56.2% | 0 | 0.0% | 0 | 0.0 | |
| - Vascular surgery | 115 | 255 | 75 | 29.4% | 180 | 70.6% | 0 | 0.0% | 0 | 0.0 | |
| Vascular surgery - integrated | 67 | 332 | 116 | 34.9% | 215 | 64.8% | 0 | 0.0% | 1 | 0.3 | |
| Thoracic surgery | 74 | 243 | 62 | 25.5% | 181 | 74.5% | 0 | 0.0% | 0 | 0.0 | |
| - Congenital cardiac surgery | 15 | 11 | 4 | 36.4% | 7 | 63.6% | 0 | 0.0% | 0 | 0.0 | |
| Thoracic surgery - integrated | 33 | 203 | 61 | 30.0% | 142 | 70.0% | 0 | 0.0% | 0 | 0.0 | |
| Urology | 145 | 1,768 | 504 | 28.5% | 1,260 | 71.3% | 0 | 0.0% | 4 | 0.2 | |
| - Female pelvic medicine and reconstructive surgery | 15 | 37 | 30 | 81.1% | 7 | 18.9% | 0 | 0.0% | 0 | 0.0 | |
| - Pediatric urology | 26 | 18 | 10 | 55.6% | 8 | 44.4% | 0 | 0.0% | 0 | 0.0 | |
| Transitional year | 172 | 1,693 | 580 | 34.3% | 1,092 | 64.5% | 0 | 0.0% | 21 | 1.2 | |
| Internal medicine/Pediatrics | 79 | 1,510 | 914 | 60.5% | 593 | 39.3% | 0 | 0.0% | 3 | 0.2 | |

Note: Pipeline specialties are highlighted.

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



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

| A DI | | |
|------|--|--|
| | | |

| Table C.23 | | | | | | | | | |
|---|---------------|---------------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Number of Active Residents by Specialt | y and Sul | bspecialt | y and Rac | e/Ethnici | ity | | | | |
| | | | | R | Race/Ethnici | ty | | | |
| Specialty | 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 |
| | | | | | 152 | | - | 4,050 | |
| OVERALL TOTAL PURELINE | 74,025 | 38,394 | 7,991 | 8,305 | 136 | 61 51 | 10,263 | | 5,959 |
| TOTAL PIPELINE | 60,618 145 | 29,720 120 | 6,431 | 6,918 | 0 | 0 | 8,652 15 | 3,135 | 5,449 |
| Allergy and immunology | 3,653 | 1,730 | 317 | 343 | 9 | 2 | 503 | 171 | 167 |
| Anesthesiology - Adult cardiothoracic anesthesiology | 143 | 52 | 10 | 8 | 0 | 0 | 12 | 7 | 3 |
| - Adult Cardiothoracic anesthesiology - Clinical informatics | 143 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Critical mormatics | 114 | 39 | 13 | 10 | 0 | 0 | 11 | 5 | 2 |
| - Regional anesthesiology and acute pain medicine | 43 | 19 | 3 | 5 | 0 | 0 | 5 | 1 | 1 |
| - Obstetric anesthesiology | 29 | 7 | 1 | 3 | 0 | 0 | 3 | 2 | 3 |
| - Pain medicine (multidisciplinary) | 174 | 150 | 16 | 19 | 1 | 0 | 28 | 9 | 3 |
| - Pediatric anesthesiology | 107 | 37 | 15 | 10 | 2 | 0 | 6 | 4 | 4 |
| Colon and rectal surgery | 63 | 20 | 2 | 5 | 0 | 0 | 10 | 1 | 4 |
| Dermatology | 937 | 350 | 65 | 78 | 2 | 0 | 113 | 41 | 26 |
| - Dermatopathology (multidisciplinary) | 41 | 15 | 5 | 1 | 0 | 0 | 5 | 1 | 1 |
| - Micrographic surgery and dermatologic oncology | 52 | 16 | 0 | 2 | 0 | 0 | 13 | 3 | 0 |
| Emergency medicine | 5,444 | 1,282 | 410 | 440 | 12 | 5 | 696 | 208 | 145 |
| - Clinical informatics | 5 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Emergency medical services | 67 | 11 | 0 | 3 | 1 | 0 | 3 | 1 | 0 |
| - Medical toxicology | 64 | 7 | 3 | 1 | 0 | 0 | 3 | 1 | 0 |
| - Pediatric emergency medicine | 66 | 35 | 11 | 11 | 0 | 0 | 5 | 4 | 2 |
| - Sports medicine | 10 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Undersea and hyperbaric medicine | 6 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Family medicine | 7,088 | 3,199 | 842 | 1,072 | 29 | 12 | 1,106 | 302 | 575 |
| - Clinical informatics | 4 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Geriatric medicine | 15 | 12 | 4 | 2 | 0 | 0 | 5 | 0 | 1 |
| - Hospice and palliative medicine (multidisciplinary) | 231 | 96 | 20 | 22 | 0 | 1 | 18 | 11 | 2 |
| - Sports medicine | 179 | 45 | 17 | 15 | 0 | 0 | 19 | 2 | 1 |
| Internal medicine | 11,064 | 10,088 | 1,675 | 1,762 | 25 | 6 | 1,808 | 936 | 2,723 |
| - Adult congenital heart disease | 16 | 4 | 2 | 0 | 0 | 0 | 3 | 1 | 2 |
| - Advanced heart failure and transplant cardiology | 37 | 47 | 4 | 5 | 0 | 0 | 2 | 3 | 3 |
| - Cardiovascular disease | 1,305 | 1,243 | 172 | 188 | 1 | 0 | 149 | 138 | 44 |
| - Clinical cardiac electrophysiology | 111 | 108 | 8 | 11 | 0 | 0 | 13 | 18 | 7 |
| - Clinical informatics | 13 | 16 | 2 | 3 | 0 | 0 | 0 | 1 | 1 |
| - Critical care medicine | 128 | 85 | 17 | 14 | 0 | 0 | 15 | 15 | 6 |
| - Endocrinology, diabetes, and metabolism | 208 | 322 | 56 | 29 | 1 | 1 | 19 | 36 | 17 |
| - Gastroenterology | 734 | 762 | 71 | 91 | 1 | 2 | 85 | 77 | 21 |
| - Geriatric medicine | 85 | 102 | 18 | 20 | 0 | 0 | 19 | 13 | 15 |
| - Hematology | 5 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Hematology and medical oncology | 834 | 759 | 81 | 67 | 0 | 0 | 81 | 49 | 24 |
| - Infectious disease | 332 | 223 | 69 | 40 | 0 | 0 | 48 | 27 | 24 |
| - Interventional cardiology | 130 | 154 | 12 | 20 | 0 | 0 | 12 | 22 | 5 |
| - Nephrology | 239 | 370 | 72 | 40 | 0 | 0 | 41 | 33 | 34 |
| - Medical oncology | 6 | 22 | 2 | 2 | 0 | 0 | 1 | 1 | 0 |
| - Pulmonary disease | 9 | 40 | 10 | 3 | 0 | 0 | 3 | 4 | 1 |
| - Pulmonary disease and critical care medicine | 981 | 701 | 104 | 95 | 1 | 1 | 107 | 78 | 17 |
| - Rheumatology | 230 | 185 | 31 | 17 | 0 | 0 | 24 | 24 | 9 |
| - Sleep medicine (multidisciplinary) | 55 | 85 | 17 | 8 | 0 | 0 | 13 | 9 | 3 |
| - Transplant hepatology | 18 | 17 | 2 | 3 | 0 | 0 | 2 | 3 | 2 |
| Medical genetics and genomics | 32 | 11 | 13 | 3 | 0 | 0 | 4 | 0 | 5 |
| - Medical biochemical genetics | 6 | 4 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| - Molecular genetic pathology (multidisciplinary) | 25 | 14 | 5 | 0 | 0 | 0 | 9 | 4 | 0 |
| Neurological surgery | 872 | 353 | 65 | 71 | 2 | 0 | 119 | 50 | 29 |
| - Endovascular surgical neuroradiology | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| TABLE C.23 Continued Number of Active Residents by Specialt | v and Sul | specialt | v and Rac | e/Ethnic | itv | | | | |
|--|-----------|----------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Trumber of feetive residents by special | y una suk | speciare | y und itue | | Race/Ethnici | hv | | | |
| Specialty | 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 | 1,371 | 988 | 194 | 145 | 2 | 1 | 203 | 115 | 202 |
| - Brain injury medicine | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Clinical neurophysiology | 62 | 47 | 5 | 6 | 0 | 1 | 12 | 7 | 3 |
| - Epilepsy | 71 | 45 | 8 | 2 | 0 | 0 | 6 | 2 | 0 |
| - Endovascular surgical neuroradiology | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Neurodevelopmental disabilities | 14 | 5 | 0 | 1 | 0 | 0 | 5 | 1 | 0 |
| - Neuromuscular medicine | 37 | 21 | 6 | 1 | 0 | 0 | 4 | 2 | 3 |
| - Vascular neurology | 72 | 47 | 9 | 7 | 0 | 0 | 15 | 9 | 3 |
| Child neurology | 229 | 100 | 25 | 14 | 1 | 0 | 32 | 11 | 7 |
| Nuclear medicine | 22 | 20 | 6 | 3 | 0 | 0 | 3 | 4 | 11 |
| Obstetrics and gynecology | 3,375 | 883 | 367 | 462 | 6 | 0 | 479 | 102 | 95 |
| - Female pelvic medicine and reconstructive surgery | 76 | 33 | 12 | 9 | 0 | 0 | 12 | 4 | 0 |
| - Gynecologic oncology | 145 | 31 | 14 | 14 | 0 | 0 | 14 | 3 | 0 |
| - Maternal-fetal medicine | 234 | 55 | 26 | 41 | 0 | 0 | 24 | 10 | 1 |
| - Reproductive endocrinology and infertility | 106 | 34 | 5 | 9 | 0 | 0 | 7 | 5 | 0 |
| - Complex family planning | 26 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Ophthalmology | 789 | 473 | 61 | 35 | 1 | 1 | 107 | 32 | 32 |
| - Ophthalmic plastic and reconstructive surgery | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Orthopaedic surgery | 3,129 | 547 | 143 | 184 | 2 | 3 | 291 | 73 | 43 |
| - Adult reconstructive orthopaedics | 35 | 5 | 1 | 4 | 0 | 0 | 3 | 1 | 1 |
| - Foot and ankle orthopaedics | 11 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |
| - Hand surgery | 96 | 35 | 9 | 0 | 0 | 0 | 10 | 3 | 2 |
| - Musculoskeletal oncology | 12 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Orthopaedic sports medicine | 166 | 19 | 3 | 3 | 1 | 0 | 11 | 4 | 4 |
| - Orthopaedic surgery of the spine | 11 | 7 | 1 | 2 | 0 | 0 | 2 | 1 | 1 |
| - Orthopaedic trauma | 14 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric orthopaedics | 18 | 5 | 2 | 2 | 0 | 0 | 4 | 0 | 3 |
| Osteopathic neuromusculoskeletal medicine | 45 | 8 | 2 | 4 | 0 | 0 | 6 | 2 | 1 |
| Otolaryngology - head and neck surgery | 1,031 | 387 | 63 | 49 | 0 | 0 | 122 | 53 | 18 |
| - Neurotology | 24 | 7 | 0 | 0 | 0 | 0 | 4 | 0 | 1 |
| - Pediatric otolaryngology | 18 | 11 | 0 | 0 | 0 | 0 | 2 | 1 | 2 |
| Pathology-anatomic and clinical | 1,084 | 633 | 111 | 111 | 2 | 1 | 156 | 76 | 172 |
| - Blood banking/transfusion medicine | 28 | 12 | 1 | 3 | 1 | 0 | 5 | 1 | 1 |
| - Clinical informatics | 8 | 7 | 2 | 1 | 0 | 0 | 0 | 1 | 0 |
| - Chemical pathology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Cytopathology | 67 | 32 | 6 | 5 | 0 | 0 | 6 | 8 | 3 |
| - Forensic pathology | 32 | 5 | 0 | 3 | 0 | 0 | 8 | 0 | 1 |
| - Hematopathology | 52 | 40 | 7 | 3 | 0 | 0 | 7 | 5 | 3 |
| - Medical microbiology | 11 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Neuropathology | 30 | 10 | 2 | 2 | 0 | 0 | 6 | 0 | 3 |
| - Pediatric pathology | 14 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| - Selective pathology | 60 | 70 | 12 | 7 | 0 | 0 | 10 | 10 | 7 |
| Pediatrics | 4,780 | 2,006 | 638 | 602 | 11 | 4 | 660 | 196 | 522 |
| - Adolescent medicine | 50 | 13 | 5 | 20 | 0 | 0 | 7 | 2 | 0 |
| - Child abuse pediatrics | 28 | 7 | 3 | 2 | 0 | 0 | 3 | 0 | 1 |
| - Clinical informatics | 8 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Developmental-behavioral pediatrics | 59 | 23 | 14 | 6 | 0 | 0 | 11 | 1 | 0 |
| - Neonatal-perinatal medicine | 406 | 200 | 50 | 49 | 0 | 0 | 46 | 17 | 15 |
| - Pediatric cardiology | 280 | 105 | 23 | 15 | 0 | 1 | 30 | 7 | 7 |
| - Pediatric critical care medicine | 338 | 118 | 37 | 17 | 1 | 0 | 41 | 19 | 4 |
| - Pediatric emergency medicine | 260 | 78 | 14 | 31 | 0 | 0 | 39 | 5 | 7 |
| - Pediatric endocrinology | 114 | 60 | 21 | 9 | 0 | 0 | 9 | 6 | 11 |

- Pediatric gastroenterology

Table C.23 Continued

| Number of Active Residents l | y S | pecialty ar | d Subs | pecialty | y and Race/Ethni | city |
|------------------------------|-----|-------------|--------|----------|------------------|------|
|------------------------------|-----|-------------|--------|----------|------------------|------|

| | | | | R | Race/Ethnicit | ty | | | |
|---|-------|-------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Specialty | 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 hematology/oncology | 276 | 113 | 30 | 15 | 0 | 0 | 21 | 10 | 10 |
| - Pediatric infectious diseases | 103 | 31 | 12 | 7 | 0 | 0 | 9 | 9 | 4 |
| - Pediatric nephrology | 65 | 30 | 8 | 6 | 0 | 0 | 4 | 3 | 4 |
| - Pediatric pulmonology | 101 | 33 | 9 | 6 | 1 | 0 | 14 | 3 | 9 |
| - Pediatric rheumatology | 56 | 9 | 4 | 4 | 0 | 1 | 10 | 2 | 2 |
| - Sports medicine | 17 | 4 | 0 | 1 | 0 | 0 | 2 | 2 | 0 |
| - Pediatric transplant hepatology | 6 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric hospital medicine | 74 | 25 | 3 | 5 | 0 | 0 | 7 | 1 | 0 |
| Physical medicine and rehabilitation | 800 | 393 | 67 | 66 | 1 | 1 | 110 | 40 | 32 |
| - Brain injury medicine | 8 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| - Neuromuscular medicine | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Spinal cord injury medicine | 8 | 7 | 2 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Pediatric rehabilitation medicine | 19 | 6 | 1 | 1 | 0 | 0 | 2 | 1 | 0 |
| - Sports medicine | 20 | 4 | 3 | 2 | 0 | 0 | 4 | 0 | 0 |
| Plastic surgery | 121 | 44 | 14 | 8 | 0 | 1 | 17 | 9 | 0 |
| Plastic surgery - integrated | 611 | 206 | 27 | 26 | 0 | 0 | 94 | 31 | 14 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| - Craniofacial surgery | 13 | | | 0 | | - | - | | |
| - Hand surgery | | 5 | 0 | | 1 | 0 | 3 | 0 | 1 |
| Preventive medicine | 172 | 70 | 8 | 58 | 1 | 1 | 26 | 7 | 7 |
| - Medical toxicology | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Undersea and hyperbaric medicine | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Psychiatry | 3,381 | 1,767 | 382 | 471 | 11 | 2 | 585 | 165 | 212 |
| - Addiction medicine (multidisciplinary) | 76 | 26 | 7 | 11 | 0 | 0 | 3 | 4 | 2 |
| - Addiction psychiatry | 47 | 17 | 5 | 7 | 0 | 0 | 6 | 4 | 0 |
| - Child and adolescent psychiatry | 379 | 290 | 54 | 67 | 0 | 0 | 89 | 30 | 10 |
| - Forensic psychiatry | 48 | 15 | 2 | 6 | 0 | 0 | 8 | 0 | 1 |
| - Geriatric psychiatry | 16 | 11 | 4 | 4 | 0 | 0 | 4 | 3 | 2 |
| - Consultation-liaison psychiatry | 43 | 16 | 5 | 4 | 0 | 0 | 9 | 3 | 2 |
| Radiation oncology | 412 | 239 | 21 | 27 | 0 | 0 | 42 | 21 | 11 |
| Radiology-diagnostic | 2,418 | 1,217 | 196 | 183 | 4 | 3 | 323 | 131 | 82 |
| - Abdominal radiology | 16 | 15 | 1 | 1 | 0 | 0 | 2 | 0 | 11 |
| - Endovascular surgical neuroradiology | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Musculoskeletal radiology | 22 | 14 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| - Neuroradiology | 118 | 81 | 11 | 17 | 0 | 0 | 19 | 8 | 18 |
| - Nuclear radiology | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Pediatric radiology | 29 | 6 | 4 | 1 | 0 | 0 | 6 | 1 | 4 |
| Interventional radiology - independent | 87 | 54 | 7 | 10 | 0 | 0 | 14 | 6 | 6 |
| Interventional radiology - integrated | 330 | 168 | 18 | 13 | 1 | 0 | 42 | 16 | 3 |
| Surgery | 5,122 | 1,672 | 535 | 490 | 10 | 8 | 731 | 252 | 243 |
| - Complex general surgical oncology | 83 | 22 | 5 | 3 | 1 | 0 | 4 | 2 | 0 |
| - Hand surgery | 4 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Pediatric surgery | 57 | 10 | 8 | 8 | 0 | 0 | 3 | 0 | 0 |
| - Surgical critical care | 194 | 37 | 16 | 19 | 0 | 0 | 24 | 7 | 2 |
| - Vascular surgery | 144 | 60 | 18 | 10 | 0 | 0 | 13 | 10 | 0 |
| Vascular surgery - integrated | 170 | 91 | 13 | 21 | 2 | 0 | 21 | 8 | 6 |
| Thoracic surgery | 170 | 55 | 11 | 12 | 0 | 0 | 8 | 3 | 0 |
| | 8 | | | | | | 2 | | |
| - Congenital cardiac surgery | | 1 | 0 | 0 | 0 | 0 | | 0 | 0 |
| Thoracic surgery - integrated | 118 | 50 | 7 | 3 | 0 | 0 | 12 | 8 | 5 |
| Urology | 1,043 | 394 | 76 | 65 | 1 | 0 | 121 | 41 | 27 |
| - Female pelvic medicine and reconstructive surgery | 25 | 5 | 1 | 2 | 0 | 0 | 3 | 1 | 0 |
| - Pediatric urology | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Transitional year | 836 | 424 | 111 | 88 | 2 | 2 | 126 | 46 | 58 |
| Internal medicine/Pediatrics | 888 | 297 | 63 | 99 | 1 | 0 | 106 | 28 | 28 |

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 gender and race/ethnicity reported above for the 2020-2021 academic year are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

| TARIE | 0.4 |
|-------|-----|
| ARIR | 74 |

| Table C.24 | | | | | | | | | |
|---|-----------|---------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Number of Active Female Residents by | Specialty | and Sub | specialty | and Race | e/Ethnicit | y | | | |
| | | | | | Race/Ethnici | | | | |
| Specialty | 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 | 31951 | 18759 | 3768 | 4760 | 66 | 29 | 4875 | 1633 | 2110 |
| TOTAL PIPELINE | 26202 | 14808 | 3046 | 4016 | 58 | 23 | 4094 | 1288 | 1924 |
| Allergy and immunology | 83 | 82 | 10 | 4 | 0 | 0 | 9 | 3 | 2 |
| Anesthesiology | 1050 | 692 | 97 | 167 | 1 | 2 | 169 | 43 | 43 |
| - Adult cardiothoracic anesthesiology | 42 | 23 | 2 | 3 | 0 | 0 | 3 | 0 | 0 |
| - Clinical informatics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Critical care medicine | 33 | 15 | 5 | 6 | 0 | 0 | 5 | 1 | 0 |
| - Regional anesthesiology and acute pain medicine | 13 | 9 | 1 | 2 | 0 | 0 | 1 | 0 | 0 |
| - Obstetric anesthesiology | 15 | 3 | 1 | 3 | 0 | 0 | 3 | 2 | 1 |
| - Pain medicine (multidisciplinary) | 41 | 41 | 4 | 5 | 1 | 0 | 10 | 2 | 0 |
| - Pediatric anesthesiology | 44 | 27 | 4 | 6 | 1 | 0 | 5 | 2 | 0 |
| Colon and rectal surgery | 24 | 7 | 0 | 2 | 0 | 0 | 4 | 1 | 2 |
| Dermatology | 533 | 206 | 32 | 64 | 0 | 0 | 68 | 26 | 15 |
| - Dermatopathology (multidisciplinary) | 21 | 8 | 2 | 1 | 0 | 0 | 3 | 1 | 1 |
| - Micrographic surgery and dermatologic oncology | 30 | 9 | 0 | 1 | 0 | 0 | 8 | 2 | 0 |
| Emergency medicine | 1930 | 482 | 147 | 227 | 3 | 1 | 278 | 75 | 45 |
| - Clinical informatics | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Emergency medical services | 20 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Medical toxicology | 23 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| - Pediatric emergency medicine | 43 | 25 | 8 | 9 | 0 | 0 | 3 | 2 | 0 |
| - Sports medicine | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Undersea and hyperbaric medicine | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Family medicine | 3508 | 1857 | 447 | 738 | 13 | 6 | 590 | 159 | 240 |
| - Clinical informatics | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Geriatric medicine | 5 | 8 | 2 | 2 | 0 | 0 | 5 | 0 | 1 |
| - Hospice and palliative medicine (multidisciplinary) | 138 | 54 | 14 | 17 | 0 | 1 | 12 | 9 | 2 |
| - Sports medicine | 55 | 10 | 7 | 5 | 0 | 0 | 12 | 0 | 1 |
| Internal medicine | 4340 | 4813 | 707 | 869 | 13 | 1 | 735 | 371 | 900 |
| - Adult congenital heart disease | 17 | 14 | 1 | 0 2 | 0 | 0 | 1 | 0 | 0 |
| - Advanced heart failure and transplant cardiology - Cardiovascular disease | 269 | 335 | 37 | 58 | 0 | 0 | 45 | 23 | _ |
| | 13 | 15 | 1 | 2 | 0 | 0 | 0 | 23 | 14 |
| - Clinical cardiac electrophysiology - Clinical informatics | 13 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| - Critical finor mattes - Critical care medicine | 40 | 23 | 1 | 4 | 0 | 0 | 5 | 4 | 2 |
| - Endocrinology, diabetes, and metabolism | 119 | 242 | 36 | 19 | 1 | 1 | 11 | 24 | 7 |
| - Gastroenterology | 222 | 329 | 33 | 36 | 0 | 0 | 36 | 19 | 6 |
| - Geriatric medicine | 52 | 69 | 12 | 14 | 0 | 0 | 12 | 10 | 8 |
| - Hematology | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Hematology and medical oncology | 322 | 389 | 41 | 38 | 0 | 0 | 30 | 17 | 9 |
| - Infectious disease | 143 | 133 | 23 | 17 | 0 | 0 | 26 | 7 | 8 |
| - Interventional cardiology | 23 | 23 | 0 | 5 | 0 | 0 | 2 | 0 | 0 |
| - Nephrology | 92 | 143 | 24 | 17 | 0 | 0 | 14 | 14 | 13 |
| - Medical oncology | 1 | 13 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Pulmonary disease | 3 | 15 | 5 | 2 | 0 | 0 | 1 | 2 | 0 |
| - Pulmonary disease and critical care medicine | 346 | 234 | 35 | 38 | 1 | 0 | 41 | 26 | 6 |
| - Rheumatology | 125 | 115 | 23 | 10 | 0 | 0 | 14 | 14 | 5 |
| - Sleep medicine (multidisciplinary) | 22 | 42 | 8 | 4 | 0 | 0 | 4 | 4 | 3 |
| - Transplant hepatology | 11 | 8 | 2 | 1 | 0 | 0 | 1 | 1 | 1 |
| Medical genetics and genomics | 20 | 6 | 8 | 2 | 0 | 0 | 1 | 0 | 1 |
| - Medical biochemical genetics | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| - Molecular genetic pathology (multidisciplinary) | 11 | 5 | 3 | 0 | 0 | 0 | 5 | 2 | 0 |
| Neurological surgery | 171 | 85 | 8 | 15 | 0 | 0 | 28 | 9 | 2 |
| - Endovascular surgical neuroradiology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table C.24 Continued

| Table C.24 Continued | | | | | | | | | |
|---|-----------|---------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Number of Active Female Residents by | Specialty | and Sub | specialty | and Race | e/Ethnicit | y | | | |
| | | | | F | Race/Ethnici | ty | | | |
| Specialty | 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 | 621 | 491 | 96 | 75 | 1 | 0 | 90 | 47 | 76 |
| - Brain injury medicine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Clinical neurophysiology | 20 | 22 | 2 | 4 | 0 | 1 | 5 | 4 | 1 |
| - Epilepsy | 31 | 27 | 5 | 1 | 0 | 0 | 2 | 1 | 0 |
| - Endovascular surgical neuroradiology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Neurodevelopmental disabilities | 6 | 4 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| - Neuromuscular medicine | 14 | 7 | 2 | 0 | 0 | 0 | 1 | 1 | 2 |
| - Vascular neurology | 27 | 19 | 4 | 4 | 0 | 0 | 5 | 3 | 2 |
| Child neurology | 160 | 68 | 19 | 9 | 1 | 0 | 23 | 6 | 2 |
| Nuclear medicine | 8 | 8 | 0 | 1 | 0 | 0 | 0 | 1 | 5 |
| Obstetrics and gynecology | 2858 | 769 | 298 | 414 | 5 | 0 | 408 | 80 | 46 |
| - Female pelvic medicine and reconstructive surgery | 60 | 26 | 7 | 7 | 0 | 0 | 9 | 2 | 0 |
| - Gynecologic oncology | 105 | 25 | 9 | 11 | 0 | 0 | 13 | 3 | 0 |
| - Maternal-fetal medicine | 182 | 47 | 19 | 35 | 0 | 0 | 21 | 4 | 0 |
| - Reproductive endocrinology and infertility | 83 | 31 | 2 | 7 | 0 | 0 | 4 | 3 | 0 |
| - Complex family planning | 25 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Ophthalmology | 247 | 237 | 26 | 25 | 0 | 1 | 55 | 16 | 14 |
| - Ophthalmic plastic and reconstructive surgery | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Orthopaedic surgery | 521 | 88 | 24 | 30 | 0 | 0 | 61 | 6 | 8 |
| - Adult reconstructive orthopaedics | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Foot and ankle orthopaedics | 3 24 | 0 | 7 | 0 | 0 | 0 | 0 2 | 0 2 | 0 |
| - Hand surgery - Musculoskeletal oncology | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Orthopaedic sports medicine | 16 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 |
| - Orthopaedic surgery of the spine | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| - Orthopaedic trauma | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric orthopaedics | 7 | 2 | 1 | 1 | 0 | 0 | 3 | 0 | 0 |
| Osteopathic neuromusculoskeletal medicine | 20 | 4 | 1 | 4 | 0 | 0 | 3 | 2 | 0 |
| Otolaryngology - head and neck surgery | 361 | 165 | 20 | 29 | 0 | 0 | 45 | 19 | 4 |
| - Neurotology | 8 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Pediatric otolaryngology | 10 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Pathology-anatomic and clinical | 512 | 379 | 58 | 55 | 1 | 0 | 83 | 28 | 68 |
| - Blood banking/transfusion medicine | 16 | 10 | 0 | 2 | 0 | 0 | 2 | 1 | 1 |
| - Clinical informatics | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| - Chemical pathology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Cytopathology | 33 | 18 | 2 | 3 | 0 | 0 | 3 | 3 | 0 |
| - Forensic pathology | 20 | 2 | 0 | 2 | 0 | 0 | 6 | 0 | 1 |
| - Hematopathology | 16 | 26 | 3 | 1 | 0 | 0 | 3 | 2 | 1 |
| - Medical microbiology | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Neuropathology | 15 | 4 | 0 | 1 | 0 | 0 | 3 | 0 | 1 |
| - Pediatric pathology | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| - Selective pathology | 26 | 38 | 8 | 4 | 0 | 0 | 5 | 2 | 2 |
| Pediatrics | 3341 | 1518 | 445 | 482 | 9 | 4 | 501 | 140 | 258 |
| - Adolescent medicine | 39 | 11 | 4 | 18 | 0 | 0 | 5 | 2 | 0 |
| - Child abuse pediatrics | 25 | 6 | 3 | 2 | 0 | 0 | 3 | 0 | 1 |
| - Clinical informatics | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Developmental-behavioral pediatrics | 50 | 19 | 11 | 6 | 0 | 0 | 11 | 1 | 0 |
| - Neonatal-perinatal medicine | 299 | 140 | 39 | 36 | 0 | 0 | 41 | 10 | 6 |
| - Pediatric cardiology | 139 | 60 | 13 | 12 | 0 | 1 | 12 | 1 | 2 |
| - Pediatric critical care medicine | 214 | 64 | 21 | 12 | 1 | 0 | 17 | 10 | 0 |
| - Pediatric emergency medicine | 170 | 58 | 11 | 24 | 0 | 0 | 26 | 3 | 4 |
| - Pediatric endocrinology | 97 | 52 | 15 | 8 | 0 | 0 | 9 | 6 | 7 |
| - Pediatric gastroenterology | 101 | 61 | 15 | 15 | 0 | 0 | 12 | 5 | 4 |

Table C.24 Continued

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

| | Race/Ethnicity | | | | | | | | | | | |
|---|----------------|-------|--|---------------------------------|--|--|--------------------------------|-------|---------|--|--|--|
| Specialty | 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 hematology/oncology | 186 | 82 | 20 | 11 | 0 | 0 | 15 | 7 | 8 | | | |
| - Pediatric infectious diseases | 73 | 19 | 8 | 5 | 0 | 0 | 6 | 6 | 2 | | | |
| - Pediatric nephrology | 48 | 27 | 8 | 5 | 0 | 0 | 3 | 2 | 3 | | | |
| - Pediatric pulmonology | 59 | 26 | 4 | 6 | 1 | 0 | 9 | 1 | 4 | | | |
| - Pediatric rheumatology | 43 | 8 | 4 | 4 | 0 | 1 | 6 | 2 | 0 | | | |
| - Sports medicine | 7 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | | | |
| - Pediatric transplant hepatology | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| - Pediatric hospital medicine | 59 | 21 | 3 | 5 | 0 | 0 | 5 | 1 | 0 | | | |
| Physical medicine and rehabilitation | 258 | 147 | 23 | 28 | 0 | 0 | 41 | 17 | 11 | | | |
| - Brain injury medicine | 6 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | | | |
| - Neuromuscular medicine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| - Spinal cord injury medicine | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| - Pediatric rehabilitation medicine | 12 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | | | |
| - Sports medicine | 11 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | | | |
| Plastic surgery | 36 | 12 | 6 | 3 | 0 | 0 | 4 | 2 | 0 | | | |
| Plastic surgery - integrated | 247 | 105 | 10 | 16 | 0 | 0 | 43 | 9 | 4 | | | |
| - Craniofacial surgery | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | | |
| - Hand surgery | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | | | |
| Preventive medicine | 73 | 35 | 4 | 37 | 1 | 0 | 12 | 1 | 3 | | | |
| - Medical toxicology | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| - Undersea and hyperbaric medicine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Psychiatry | 1525 | 973 | 208 | 288 | 3 | 2 | 300 | 66 | 63 | | | |
| - Addiction medicine (multidisciplinary) | 34 | 12 | 4 | 4 | 0 | 0 | 3 | 1 | 1 | | | |
| - Addiction psychiatry | 16 | 4 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | | | |
| - Child and adolescent psychiatry | 206 | 152 | 28 | 49 | 0 | 0 | 55 | 20 | 4 | | | |
| - Forensic psychiatry | 25 | 9 | 1 | 6 | 0 | 0 | 5 | 0 | 1 | | | |
| - Geriatric psychiatry | 10 | 9 | 3 | 4 | 0 | 0 | 4 | 1 | 1 | | | |
| - Consultation-liaison psychiatry | 23 | 9 | 1 | 4 | 0 | 0 | 3 | 1 | 0 | | | |
| Radiation oncology | 109 | 85 | 8 | 10 | 0 | 0 | 13 | 9 | 2 | | | |
| Radiology-diagnostic | 536 | 385 | 68 | 60 | 1 | 2 | 99 | 42 | 22 | | | |
| - Abdominal radiology | 5 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | | | |
| - Endovascular surgical neuroradiology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| - Musculoskeletal radiology | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | | |
| - Neuroradiology | 19 | 22 | 0 | 6 | 0 | 0 | 7 | 1 | 4 | | | |
| - Nuclear radiology | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | | | |
| - Pediatric radiology | 12 | 3 | 3 | 0 | 0 | 0 | 3 | 1 | 2 | | | |
| Interventional radiology - independent | 9 | 9 | 2 | 3 | 0 | 0 | 0 | 1 | 3 | | | |
| Interventional radiology - integrated | 69 | 43 | 3 | 4 | 0 | 0 | 6 | 5 | 0 | | | |
| Surgery | 2246 | 801 | 211 | 242 | 3 | 4 | 328 | 80 | 62 | | | |
| - Complex general surgical oncology | 25 | 9 | 3 | 3 | 1 | 0 | 1 | 1 | 0 | | | |
| - Hand surgery | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| - Pediatric surgery | 30 | 7 | 2 | 6 | 0 | 0 | 2 | 0 | 0 | | | |
| - Surgical critical care | 78 | 14 | 11 | 9 | 0 | 0 | 17 | 1 | 1 | | | |
| | 44 | 16 | 3 | 5 | 0 | 0 | 5 | 2 | 0 | | | |
| - Vascular surgery | | | | 9 | 2 | 0 | | 2 | | | | |
| Vascular surgery - integrated Thoracia surgery | 60 | 31 | 3 | | 0 | 0 | 6 2 | 1 | 3 | | | |
| Thoracic surgery Congenital carding surgery | 41 | 14 | 1 | 3 | 0 | 0 | | | 0 | | | |
| - Congenital cardiac surgery | 1 | 1 17 | 0 | - | - | - | 2 | 0 | 0 | | | |
| Thoracic surgery - integrated | 31 | 17 | 2 | 1 | 0 | 0 | 5 | 3 | 2 | | | |
| Urology | 271 | 120 | 31 | 34 | 0 | 0 | 33 | 7 | 8 | | | |
| - Female pelvic medicine and reconstructive surgery | 19 | 5 | 1 | 2 | 0 | 0 | 2 | 1 | 0 | | | |
| - Pediatric urology | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | |
| Transitional year | 247 | 156 | 44 | 43 | 1 | 1 | 49 | 22 | 17 | | | |
| Internal medicine/Pediatrics | 531 | 177 | 34 | 75 | 1 | 0 | 66 | 16 | 14 | | | |

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 gender and race/ethnicity reported above for the 2020-2021 academic year are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").

| ADT | | |
|-----|--|--|
| | | |

| | | | | R | Race/Ethnicit | y | | | |
|---|-------|-------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Specialty | 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 | 42072 | 19635 | 4223 | 3545 | 86 | 32 | 5386 | 2417 | 2291 |
| TOTAL PIPELINE | 34415 | 14912 | 3385 | 2902 | 78 | 28 | 4558 | 1847 | 2072 |
| Allergy and immunology | 62 | 38 | 5 | 0 | 0 | 0 | 6 | 6 | 1 |
| Anesthesiology | 2602 | 1038 | 220 | 176 | 8 | 0 | 334 | 128 | 95 |
| - Adult cardiothoracic anesthesiology | 101 | 29 | 8 | 5 | 0 | 0 | 9 | 7 | 2 |
| - Clinical informatics | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Critical care medicine | 81 | 24 | 8 | 4 | 0 | 0 | 6 | 4 | 2 |
| - Regional anesthesiology and acute pain medicine | 30 | 10 | 2 | 3 | 0 | 0 | 4 | 1 | 0 |
| - Obstetric anesthesiology | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| - Pain medicine (multidisciplinary) | 133 | 109 | 12 | 14 | 0 | 0 | 18 | 7 | 2 |
| - Pediatric anesthesiology | 63 | 10 | 11 | 4 | 1 | 0 | 1 | 2 | 3 |
| Colon and rectal surgery | 39 | 13 | 2 | 3 | 0 | 0 | 6 | 0 | 2 |
| Dermatology | 404 | 144 | 33 | 14 | 2 | 0 | 45 | 15 | 6 |
| - Dermatopathology (multidisciplinary) | 20 | 7 | 3 | 0 | 0 | 0 | 2 | 0 | 0 |
| - Micrographic surgery and dermatologic oncology | 22 | 7 | 0 | 1 | 0 | 0 | 5 | 1 | 0 |
| Emergency medicine | 3514 | 800 | 263 | 213 | 9 | 4 | 418 | 133 | 46 |
| - Clinical informatics | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Emergency medical services | 47 | 11 | 0 | 3 | 1 | 0 | 2 | 1 | 0 |
| - Medical toxicology | 41 | 6 | 2 | 0 | 0 | 0 | 3 | 0 | 0 |
| - Pediatric emergency medicine | 23 | 10 | 3 | 2 | 0 | 0 | 2 | 2 | 0 |
| - Sports medicine | 9 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Undersea and hyperbaric medicine | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Family medicine | 3580 | 1342 | 395 | 334 | 16 | 6 | 516 | 143 | 157 |
| - Clinical informatics | 3 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Geriatric medicine | 10 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Hospice and palliative medicine (multidisciplinary) | 93 | 42 | 6 | 5 | 0 | 0 | 6 | 2 | 0 |
| - Sports medicine | 124 | 35 | 10 | 10 | 0 | 0 | 7 | 2 | 0 |
| Internal medicine | 6724 | 5275 | 968 | 893 | 12 | 5 | 1073 | 565 | 1130 |
| - Adult congenital heart disease | 9 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| - Advanced heart failure and transplant cardiology | 20 | 33 | 3 | 3 | 0 | 0 | 1 | 2 | 2 |
| - Cardiovascular disease | 1036 | 908 | 135 | 130 | 1 | 0 | 104 | 115 | 25 |
| - Clinical cardiac electrophysiology | 98 | 93 | 7 | 9 | 0 | 0 | 13 | 16 | 4 |
| - Clinical informatics | 12 | 10 | 2 | 1 | 0 | 0 | 0 | 1 | 0 |
| - Critical care medicine | 88 | 62 | 13 | 10 | 0 | 0 | 10 | 11 | 4 |
| - Endocrinology, diabetes, and metabolism | 89 | 80 | 20 | 10 | 0 | 0 | 8 | 12 | 7 |
| - Gastroenterology | 512 | 433 | 38 | 55 | 1 | 2 | 49 | 58 | 14 |
| - Geriatric medicine | 33 | 33 | 6 | 6 | 0 | 0 | 7 | 3 | 5 |
| - Hematology | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Hematology and medical oncology | 512 | 370 | 40 | 29 | 0 | 0 | 51 | 32 | 11 |
| - Infectious disease | 189 | 90 | 46 | 23 | 0 | 0 | 22 | 20 | 13 |
| - Interventional cardiology | 107 | 131 | 12 | 15 | 0 | 0 | 10 | 22 | 4 |
| - Nephrology | 147 | 227 | 48 | 23 | 0 | 0 | 27 | 19 | 9 |
| - Medical oncology | 5 | 9 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| - Pulmonary disease | 6 | 25 | 5 | 1 | 0 | 0 | 2 | 2 | 0 |
| - Pulmonary disease and critical care medicine | 635 | 467 | 69 | 57 | 0 | 1 | 66 | 52 | 10 |
| - Rheumatology | 105 | 70 | 8 | 7 | 0 | 0 | 10 | 10 | 3 |
| - Sleep medicine (multidisciplinary) | 33 | 43 | 9 | 4 | 0 | 0 | 9 | 5 | 0 |
| - Transplant hepatology | 7 | 9 | 0 | 2 | 0 | 0 | 1 | 2 | 1 |
| Medical genetics and genomics | 12 | 5 | 5 | 1 | 0 | 0 | 3 | 0 | 2 |
| - Medical biochemical genetics | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Molecular genetic pathology (multidisciplinary) | 14 | 9 | 2 | 0 | 0 | 0 | 4 | 2 | 0 |
| Neurological surgery | 701 | 268 | 57 | 56 | 2 | 0 | 91 | 41 | 21 |
| - Endovascular surgical neuroradiology | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 4.5 | COP | 0 | 7 |
|-------|------|---------|-------|
| LARLE | U.25 | Contini | red : |

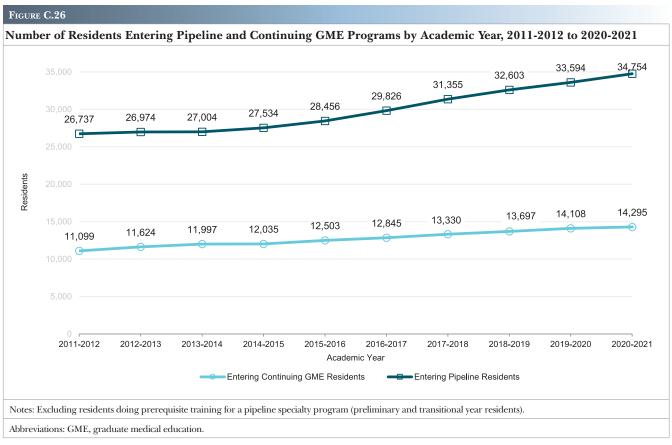
| Table C.25 Continued | | | | | | | | | |
|---|------------|----------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Number of Active Male Residents by Sp | ecialty an | nd Subsp | ecialty an | d Race/E | thnicity | | | | |
| | | | | F | Race/Ethnici | ty | | | |
| Specialty | 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 | 750 | 497 | 98 | 70 | 1 | 1 | 113 | 68 | 88 |
| - Brain injury medicine | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Clinical neurophysiology | 42 | 25 | 3 | 2 | 0 | 0 | 7 | 3 | 2 |
| - Epilepsy | 40 | 18 | 3 | 1 | 0 | 0 | 4 | 1 | 0 |
| - Endovascular surgical neuroradiology | 0 | 10 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Neurodevelopmental disabilities | 8 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| - Neuromuscular medicine | 23 | 14 | 4 | 1 | 0 | 0 | 3 | 1 | 0 |
| - Vascular neurology | 45 | 28 | 5 | 3 | 0 | 0 | 10 | 6 | 0 |
| Child neurology | 69 | 32 | 6 | 5 | 0 | 0 | 9 | 5 | 3 |
| Nuclear medicine | 14 | 12 | 6 | 2 | 0 | 0 | 3 | 3 | 3 |
| Obstetrics and gynecology | 517 | 114 | 69 | 48 | 1 | 0 | 71 | 22 | 14 |
| - Female pelvic medicine and reconstructive surgery | 16 | 7 | 5 | 2 | 0 | 0 | 3 | 2 | 0 |
| - Gynecologic oncology | 40 | 6 | 5 | 3 | 0 | 0 | 1 | 0 | 0 |
| - Maternal-fetal medicine | 52 | 8 | 7 | 6 | 0 | 0 | 3 | 6 | 1 |
| - Reproductive endocrinology and infertility | 23 | 3 | 3 | 2 | 0 | 0 | 2 | 2 | 0 |
| - Complex family planning | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ophthalmology | 542 | 236 | 35 | 10 | 1 | 0 | 52 | 16 | 16 |
| - Ophthalmic plastic and reconstructive surgery | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Orthopaedic surgery | 2608 | 459 | 119 | 154 | 2 | 3 | 230 | 67 | 21 |
| - Adult reconstructive orthopaedics | 32 | 5 | 1 | 4 | 0 | 0 | 3 | 1 | 1 |
| - Foot and ankle orthopaedics | 8 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |
| - Hand surgery | 72 | 22 | 2 | 0 | 0 | 0 | 8 | 1 | 0 |
| - Musculoskeletal oncology | 9 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Orthopaedic sports medicine | 150 | 18 | 2 | 3 | 1 | 0 | 9 | 2 | 3 |
| - Orthopaedic surgery of the spine | 11 | 7 | 1 | 2 | 0 | 0 | 0 | 1 | 1 |
| - Orthopaedic trauma | 10 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric orthopaedics | 11 | 3 | 1 | 1 | 0 | 0 | 1 | 0 | 3 |
| Osteopathic neuromusculoskeletal medicine | 25 | 4 | 1 | 0 | 0 | 0 | 3 | 0 | 1 |
| Otolaryngology - head and neck surgery | 670 | 222 | 43 | 20 | 0 | 0 | 77 | 34 | 9 |
| - Neurotology | 16 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| - Pediatric otolaryngology | 8 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Pathology-anatomic and clinical | 572 | 254 | 53 | 56 | 1 | 1 | 73 | 48 | 66 |
| - Blood banking/transfusion medicine | 12 | 2 | 1 | 1 | 1 | 0 | 3 | 0 | 0 |
| - Clinical informatics | 7 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Chemical pathology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Cytopathology | 34 | 14 | 4 | 2 | 0 | 0 | 3 | 5 | 2 |
| - Forensic pathology | 12 | 3 | 0 | 1 | 0 | 0 | 2 | 0 | 0 |
| - Hematopathology | 36 | 14 | 4 | 2 | 0 | 0 | 4 | 3 | 2 |
| - Medical microbiology | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Neuropathology | 15 | 6 | 2 | 1 | 0 | 0 | 3 | 0 | 1 |
| - Pediatric pathology | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| - Selective pathology | 34 | 32 | 4 | 3 | 0 | 0 | 5 | 8 | 3 |
| Pediatrics | 1439 | 488 | 193 | 120 | 2 | 0 | 159 | 56 | 83 |
| - Adolescent medicine | 11 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 0 |
| - Child abuse pediatrics | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Clinical informatics | 6 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Developmental-behavioral pediatrics | 9 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Neonatal-perinatal medicine | 107 | 60 | 11 | 13 | 0 | 0 | 5 | 7 | 5 |
| - Pediatric cardiology | 141 | 45 | 10 | 3 | 0 | 0 | 18 | 6 | 3 |
| - Pediatric critical care medicine | 124 | 54 | 16 | 5 | 0 | 0 | 23 | 9 | 3 |
| - Pediatric emergency medicine | 90 | 20 | 3 | 7 | 0 | 0 | 13 | 2 | 3 |
| - Pediatric endocrinology | 17 | 8 | 6 | 1 | 0 | 0 | 0 | 0 | 1 |
| - Pediatric gastroenterology | 56 | 36 | 7 | 3 | 0 | 0 | 8 | 3 | 2 |

Table C.25 Continued

| Number of Active Male Resident | by Sp | pecialty and Su | bspecialty and | d Race/Ethnicity |
|--------------------------------|-------|-----------------|----------------|------------------|
|--------------------------------|-------|-----------------|----------------|------------------|

| | | | | F | Race/Ethnicit | ty | | | |
|---|----------|-------|--|---------------------------------|--|--|--------------------------------|-------|---------|
| Specialty | 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 hematology/oncology | 90 | 31 | 10 | 4 | 0 | 0 | 6 | 3 | 1 |
| - Pediatric infectious diseases | 30 | 12 | 4 | 2 | 0 | 0 | 3 | 3 | 1 |
| - Pediatric nephrology | 17 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| - Pediatric pulmonology | 42 | 7 | 5 | 0 | 0 | 0 | 5 | 2 | 1 |
| - Pediatric rheumatology | 13 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| - Sports medicine | 10 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| - Pediatric transplant hepatology | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric hospital medicine | 15 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Physical medicine and rehabilitation | 542 | 246 | 44 | 38 | 1 | 1 | 69 | 23 | 17 |
| - Brain injury medicine | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| - Neuromuscular medicine | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Spinal cord injury medicine | 5 | 5 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Pediatric rehabilitation medicine | 7 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| - Sports medicine | 9 | 4 | 3 | 1 | 0 | 0 | 1 | 0 | 0 |
| Plastic surgery | 85 | 32 | 8 | 5 | 0 | 1 | 13 | 7 | 0 |
| Plastic surgery - integrated | 364 | 101 | 17 | 10 | 0 | 0 | 51 | 22 | 6 |
| - Craniofacial surgery | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Hand surgery | 11 | 3 | 0 | 0 | 1 | 0 | 2 | 0 | 0 |
| Preventive medicine | 99 | 35 | 4 | 21 | 0 | 1 | 14 | 6 | 2 |
| - Medical toxicology | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Medical toxicology - Undersea and hyperbaric medicine | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| · - | | | - | - | 8 | - | - | | - |
| Psychiatry | 1856 | 794 | 174 | 183 7 | | 0 | 285 | 99 | 73 |
| - Addiction medicine (multidisciplinary) | 42 30 | 14 | 3 | 6 | 0 | 0 | 5 | 3 4 | 0 |
| - Addiction psychiatry | | 13 | | | - | - | | | 0 |
| - Child and adolescent psychiatry | 173 | 138 | 26 | 18 | 0 | 0 | 34 | 10 | 6 |
| - Forensic psychiatry | 23 | 6 | 1 | 0 | 0 | 0 | 3 | 0 2 | 0 |
| - Geriatric psychiatry | | 2 | 1 | 0 | 0 | - | | | 1 |
| - Consultation-liaison psychiatry | 20 | 7 | 4 | 0 | 0 | 0 | 6 | 2 | 2 |
| Radiation oncology | 303 | 154 | 13 | 17 | 0 | 0 | 29 | 12 | 9 |
| Radiology-diagnostic | 1882 | 832 | 128 | 123 | 3 | 1 | 224 | 89 | 45 |
| - Abdominal radiology | 11 | 10 | 1 | 0 | 0 | 0 | 2 | 0 | 8 |
| - Endovascular surgical neuroradiology | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Musculoskeletal radiology | 18 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| - Neuroradiology | 99 | 59 | 11 | 11 | 0 | 0 | 12 | 7 | 8 |
| - Nuclear radiology | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric radiology | 17 | 3 | 1 | 1 | 0 | 0 | 3 | 0 | 2 |
| Interventional radiology - independent | 78 | 45 | 5 | 7 | 0 | 0 | 14 | 5 | 1 |
| Interventional radiology - integrated | 261 | 125 | 15 | 9 | 1 | 0 | 36 | 11 | 2 |
| Surgery | 2876 | 871 | 324 | 248 | 7 | 4 | 403 | 172 | 125 |
| - Complex general surgical oncology | 58 | 13 | 2 | 0 | 0 | 0 | 3 | 1 | 0 |
| - Hand surgery | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Pediatric surgery | 27 | 3 | 6 | 2 | 0 | 0 | 1 | 0 | 0 |
| - Surgical critical care | 116 | 23 | 5 | 10 | 0 | 0 | 7 | 6 | 1 |
| - Vascular surgery | 100 | 44 | 15 | 5 | 0 | 0 | 8 | 8 | 0 |
| Vascular surgery - integrated | 110 | 60 | 10 | 12 | 0 | 0 | 15 | 6 | 2 |
| Thoracic surgery | 113 | 41 | 10 | 9 | 0 | 0 | 6 | 2 | 0 |
| - Congenital cardiac surgery | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thoracic surgery - integrated | 87 | 33 | 5 | 2 | 0 | 0 | 7 | 5 | 3 |
| Urology | 772 | 274 | 45 | 31 | 1 | 0 | 88 | 34 | 15 |
| - Female pelvic medicine and reconstructive surgery | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| - Pediatric urology | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transitional year | 589 | 268 | 67 | 45 | 1 | 1 | 77 | 24 | 20 |
| Internal medicine/Pediatrics | 357 | 120 | 29 | 24 | 0 | 0 | 40 | 12 | 11 |

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 gender and race/ethnicity reported above for the 2020-2021 academic year are based upon self-reported data provided by the Association of American Medical Colleges ("AAMC").



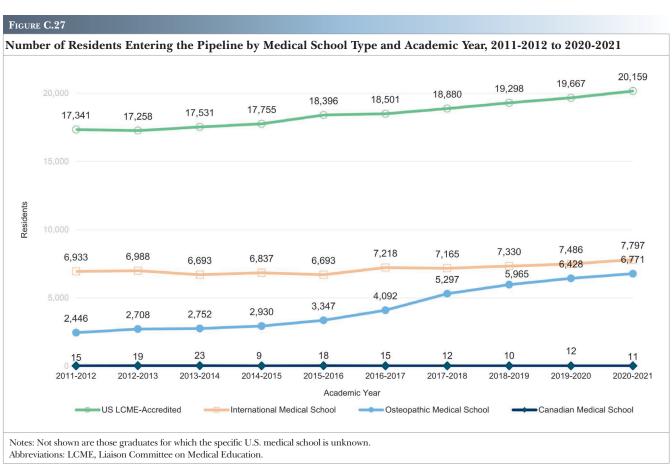


TABLE C.28

| | | | | | N | Medical S | chool Typ | e | | | |
|---|-----------|--------|----------------|--------------------|---------------------|-----------|--------------------|----|-------------------|----|--------------------|
| | Total | | CME- edited | Interna Medical | ational l School | | pathic l School | | adian 1 School | | Iedical Unknown |
| Specialty | Residents | # | % | # | % | # | % | # | % | # | % |
| OVERALL | 34,754 | 20,159 | 58.0% | 7,797 | 22.4% | 6,771 | 19.5% | 11 | 0.0% | 16 | 0.0% |
| Anesthesiology | 1,627 | 1,117 | 68.7% | 177 | 10.9% | 330 | 20.3% | 1 | 0.1% | 2 | 0.1% |
| Dermatology | 531 | 454 | 85.5% | 17 | 3.2% | 60 | 11.3% | 0 | 0.0% | 0 | 0.0% |
| Emergency medicine | 2,780 | 1,848 | 66.5% | 195 | 7.0% | 737 | 26.5% | 0 | 0.0% | 0 | 0.0% |
| Family medicine | 4,925 | 1,921 | 39.0% | 1,326 | 26.9% | 1,675 | 34.0% | 2 | 0.0% | 1 | 0.0% |
| Internal medicine | 9,628 | 4,120 | 42.8% | 3,793 | 39.4% | 1,705 | 17.7% | 2 | 0.0% | 8 | 0.1% |
| Medical genetics and genomics | 32 | 20 | 62.5% | 10 | 31.3% | 2 | 6.3% | 0 | 0.0% | 0 | 0.0% |
| Neurological surgery | 233 | 213 | 91.4% | 18 | 7.7% | 2 | 0.9% | 0 | 0.0% | 0 | 0.0% |
| Neurology | 924 | 491 | 53.1% | 296 | 32.0% | 136 | 14.7% | 1 | 0.1% | 0 | 0.0% |
| Child neurology | 141 | 107 | 75.9% | 22 | 15.6% | 12 | 8.5% | 0 | 0.0% | 0 | 0.0% |
| Nuclear medicine | 33 | 8 | 24.2% | 25 | 75.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Obstetrics and gynecology | 1,481 | 1,147 | 77.4% | 99 | 6.7% | 234 | 15.8% | 0 | 0.0% | 1 | 0.1% |
| Ophthalmology | 518 | 473 | 91.3% | 19 | 3.7% | 26 | 5.0% | 0 | 0.0% | 0 | 0.0% |
| Orthopaedic surgery | 895 | 760 | 84.9% | 11 | 1.2% | 124 | 13.9% | 0 | 0.0% | 0 | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 12 | 0 | 0.0% | 0 | 0.0% | 12 | 100.0% | 0 | 0.0% | 0 | 0.0% |
| Otolaryngology - head and neck surgery | 348 | 319 | 91.7% | 5 | 1.4% | 24 | 6.9% | 0 | 0.0% | 0 | 0.0% |
| Pathology-anatomic and clinical | 606 | 243 | 40.1% | 290 | 47.9% | 72 | 11.9% | 0 | 0.0% | 1 | 0.2% |
| Pediatrics | 3,159 | 1,948 | 61.7% | 667 | 21.1% | 542 | 17.2% | 1 | 0.0% | 1 | 0.0% |
| Physical medicine and rehabilitation | 422 | 215 | 50.9% | 31 | 7.3% | 176 | 41.7% | 0 | 0.0% | 0 | 0.0% |
| Plastic surgery | 66 | 50 | 75.8% | 11 | 16.7% | 5 | 7.6% | 0 | 0.0% | 0 | 0.0% |
| Plastic Surgery - integrated | 177 | 168 | 94.9% | 8 | 4.5% | 1 | 0.6% | 0 | 0.0% | 0 | 0.0% |
| Preventive medicine | 172 | 113 | 65.7% | 29 | 16.9% | 30 | 17.4% | 0 | 0.0% | 0 | 0.0% |
| Psychiatry | 1,964 | 1,242 | 63.2% | 355 | 18.1% | 366 | 18.6% | 1 | 0.1% | 0 | 0.0% |
| Radiation oncology | 202 | 191 | 94.6% | 7 | 3.5% | 4 | 2.0% | 0 | 0.0% | 0 | 0.0% |
| Radiology-diagnostic | 1,156 | 840 | 72.7% | 138 | 11.9% | 177 | 15.3% | 1 | 0.1% | 0 | 0.0% |
| Interventional radiology - independent | 149 | 99 | 66.4% | 36 | 24.2% | 13 | 8.7% | 1 | 0.7% | 0 | 0.0% |
| Interventional radiology - integrated | 154 | 138 | 89.6% | 1 | 0.6% | 15 | 9.7% | 0 | 0.0% | 0 | 0.0% |
| Surgery | 1,565 | 1,165 | 74.4% | 172 | 11.0% | 227 | 14.5% | 0 | 0.0% | 1 | 0.1% |
| Vascular surgery - integrated | 76 | 66 | 86.8% | 3 | 3.9% | 5 | 6.6% | 1 | 1.3% | 1 | 1.3% |
| Thoracic surgery - integrated | 35 | 32 | 91.4% | 2 | 5.7% | 1 | 2.9% | 0 | 0.0% | 0 | 0.0% |
| Urology | 360 | 328 | 91.1% | 9 | 2.5% | 23 | 6.4% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine/Pediatrics | 383 | 323 | 84.3% | 25 | 6.5% | 35 | 9.1% | 0 | 0.0% | 0 | 0.0% |

TABLE C.29

| Table C.29 | | | | | | | | | | | | |
|---------------------------|-----------------------|---------|-----------|--------|----------|-----------|-----------|---------|---------|-----|-------|-------|
| Hospital-Based Sp | pecialty Resi | dents E | ntering t | he GME | Pipeline | e by Spec | cialty an | d State | | | | |
| State Name | State Abbreviation | AN | EM | MG | NM | PTH | GPM | RO | DR | IRI | IRInd | Total |
| OVERALL | - | 1,627 | 2,780 | 32 | 33 | 606 | 172 | 202 | 1,156 | 154 | 149 | 6,911 |
| Alabama | AL | 21 | 16 | 1 | 0 | 10 | 4 | 3 | 16 | 2 | 4 | 77 |
| Alaska | AK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | AZ | 18 | 50 | 0 | 0 | 4 | 0 | 3 | 21 | 1 | 5 | 102 |
| Arkansas | AR | 13 | 16 | 0 | 0 | 4 | 0 | 1 | 7 | 1 | 0 | 42 |
| California | CA | 165 | 245 | 7 | 5 | 56 | 22 | 26 | 102 | 16 | 12 | 656 |
| Colorado | CO | 4 | 17 | 0 | 0 | 9 | 5 | 2 | 8 | 2 | 2 | 49 |
| Connecticut | CT | 23 | 37 | 0 | 0 | 15 | 5 | 3 | 31 | 3 | 2 | 119 |
| Delaware | DE | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 19 |
| District of Columbia | DC | 15 | 21 | 0 | 0 | 7 | 0 | 2 | 10 | 2 | 3 | 60 |
| Florida | FL | 91 | 181 | 1 | 2 | 16 | 13 | 10 | 62 | 7 | 11 | 394 |
| Georgia | GA | 33 | 58 | 1 | 0 | 13 | 5 | 3 | 22 | 4 | 6 | 145 |
| Hawaii | HI | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 7 |
| Idaho | ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | IL | 91 | 134 | 0 | 1 | 27 | 6 | 7 | 54 | 10 | 10 | 340 |
| Indiana | IN | 27 | 21 | 1 | 0 | 3 | 0 | 2 | 10 | 2 | 4 | 70 |
| Iowa | IA | 14 | 9 | 0 | 0 | 4 | 0 | 2 | 7 | 1 | 0 | 37 |
| Kansas | KS | 14 | 10 | 0 | 0 | 4 | 0 | 1 | 9 | 1 | 1 | 40 |
| Kentucky | KY | 23 | 25 | 0 | 0 | 7 | 3 | 4 | 12 | 0 | 1 | 75 |
| Louisiana | LA | 31 | 39 | 0 | 0 | 10 | 2 | 0 | 20 | 4 | 0 | 106 |
| Maine | ME | 5 | 11 | 0 | 0 | 0 | 2 | 0 | 3 | 1 | 0 | 22 |
| | MD | 42 | 23 | 5 | 4 | 20 | 16 | 6 | 24 | 4 | 2 | 146 |
| Maryland Massachusetts | MA | 72 | 68 | 0 | 2 | 45 | 8 | 10 | 62 | 7 | 11 | 285 |
| | | | 226 | | | - | 5 | | | 5 | | |
| Michigan | MI | 69 | | 0 | 1 | 20 | | 9 | 51 | | 5 | 391 |
| Minnesota | MN | 28 | 31 12 | 1 | 0 | 12 | 4 | 5 | 22 7 | 3 | 3 | 109 |
| Mississippi | MS | 8 | | 0 | 0 | 4 | 0 | 1 | - | 1 | 0 | 33 |
| Missouri | MO MT | 38 | 48 | 2 | 4 | 21 | 0 | 5 | 29 | 3 | 3 | 153 |
| Montana | NE | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 39 |
| Nebraska | | 9 | | 1 | 0 | 5 | 0 | 1 | 8 | 3 | 0 | |
| Nevada | NV | 7 | 29 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 42 |
| New Hampshire | NH | 7 | 87 | 0 | 0 | 2 | 5 | 1 | 3 | 2 | 1 | 27 |
| New Jersey | NJ | 21 | | 0 | 0 | 11 | 6 | 1 | 29 | 1 | 0 | 156 |
| New Mexico | NM | 6 | 12 | 0 | 0 | 4 | 3 | 0 | 7 | 0 | 1 | 33 |
| New York | NY | 217 | 372 | 4 | 7 | 75 | 12 | 27 | 138 | 18 | 16 | 886 |
| North Carolina | NC | 38 | 80 | 0 | 0 | 16 | 6 | 7 | 28 | 5 | 5 | 185 |
| North Dakota | ND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | OH | 73 | 164 | 2 | 0 | 26 | 5 | 11 | 46 | 4 | 8 | 339 |
| Oklahoma | OK | 15 | 35 | 0 | 1 | 4 | 0 | 2 | 13 | 0 | 1 | 71 |
| Oregon | OR | 13 | 11 | 1 | 0 | 4 | 0 | 2 | 5 | 2 | 4 | 42 |
| Pennsylvania | PA | 91 | 207 | 1 | 0 | 32 | 8 | 11 | 66 | 13 | 11 | 440 |
| Puerto Rico | PR | 2 | 17 | 0 | 1 | 4 | 0 | 0 | 4 | 0 | 0 | 28 |
| Rhode Island | RI | 12 | 22 | 0 | 0 | 4 | 0 | 0 | 6 | 1 | 2 | 47 |
| South Carolina | SC | 21 | 58 | 0 | 0 | 5 | 2 | 3 | 11 | 2 | 0 | 102 |
| South Dakota | SD | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Tennessee | TN | 29 | 34 | 0 | 1 | 12 | 2 | 3 | 24 | 3 | 0 | 108 |
| Texas | TX | 113 | 174 | 4 | 2 | 48 | 9 | 15 | 80 | 10 | 5 | 460 |
| Utah | UT | 3 | 9 | 0 | 0 | 6 | 4 | 2 | 7 | 1 | 2 | 34 |
| Vermont | VT | 6 | 6 | 0 | 0 | 4 | 0 | 0 | 5 | 0 | 2 | 23 |
| Virginia | VA | 26 | 71 | 0 | 0 | 8 | 0 | 3 | 26 | 2 | 2 | 138 |
| Washington | WA | 34 | 24 | 0 | 1 | 11 | 6 | 3 | 21 | 3 | 2 | 105 |
| West Virginia | WV | 9 | 16 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 0 | 33 |
| Wisconsin | WI | 30 | 24 | 0 | 1 | 9 | 2 | 4 | 19 | 3 | 1 | 93 |
| Wyoming | WY | 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; RO, Radiation oncology; DR, Radiology-diagnostic; IRI, Interventional radiology - integrated; IRInd for Interventional radiology - independent.

TABLE C.30

| | State | | | | | | | | | | | |
|----------------------|--------------|-----|-------|-------|-----|-----|-----|-------|-----|-------|-----|--------|
| State Name | Abbreviation | D | FM | IM | N | CHN | ONM | PD | PM | P | IP | Total |
| OVERALL | - | 531 | 4,925 | 9,628 | 924 | 141 | 12 | 3,159 | 422 | 1,964 | 383 | 22,089 |
| Alabama | AL | 5 | 74 | 109 | 12 | 1 | 0 | 36 | 4 | 12 | 6 | 259 |
| Alaska | AK | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Arizona | AZ | 9 | 59 | 136 | 16 | 2 | 0 | 52 | 2 | 21 | 5 | 302 |
| Arkansas | AR | 3 | 81 | 81 | 4 | 0 | 0 | 25 | 4 | 12 | 5 | 215 |
| California | CA | 45 | 551 | 777 | 73 | 15 | 0 | 300 | 30 | 193 | 18 | 2,002 |
| Colorado | CO | 6 | 89 | 86 | 13 | 4 | 0 | 32 | 6 | 21 | 4 | 261 |
| Connecticut | CT | 8 | 27 | 227 | 17 | 0 | 0 | 42 | 0 | 31 | 4 | 356 |
| Delaware | DE | 0 | 15 | 12 | 0 | 1 | 0 | 22 | 0 | 8 | 4 | 62 |
| District of Columbia | DC | 8 | 6 | 110 | 15 | 4 | 0 | 49 | 6 | 29 | 4 | 231 |
| Florida | FL | 38 | 233 | 635 | 55 | 2 | 0 | 165 | 24 | 120 | 10 | 1,282 |
| Georgia | GA | 12 | 130 | 259 | 15 | 3 | 0 | 65 | 6 | 34 | 0 | 524 |
| Hawaii | HI | 0 | 19 | 34 | 0 | 0 | 0 | 14 | 0 | 14 | 0 | 81 |
| Idaho | ID | 0 | 43 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| Illinois | IL | 23 | 244 | 483 | 42 | 5 | 0 | 137 | 19 | 69 | 24 | 1,046 |
| Indiana | IN | 0 | 114 | 76 | 8 | 1 | 0 | 34 | 4 | 16 | 14 | 267 |
| Iowa | IA | 5 | 46 | 50 | 8 | 1 | 0 | 22 | 0 | 16 | 0 | 148 |
| Kansas | KS | 5 | 41 | 35 | 5 | 0 | 0 | 5 | 4 | 14 | 3 | 112 |
| Kentucky | KY | 2 | 58 | 72 | 10 | 3 | 0 | 36 | 9 | 19 | 11 | 220 |
| Louisiana | LA | 10 | 69 | 134 | 16 | 0 | 0 | 42 | 6 | 36 | 13 | 326 |
| Maine | ME | 0 | 36 | 13 | 3 | 0 | 0 | 6 | 0 | 5 | 4 | 67 |
| Maryland | MD | 12 | 33 | 238 | 18 | 4 | 0 | 57 | 13 | 42 | 8 | 425 |
| Massachusetts | MA | 21 | 47 | 390 | 47 | 11 | 0 | 84 | 10 | 86 | 20 | 716 |
| Michigan | MI | 26 | 256 | 469 | 43 | 4 | 4 | 120 | 23 | 77 | 29 | 1,051 |
| Minnesota | MN | 14 | 78 | 117 | 15 | 2 | 0 | 35 | 12 | 29 | 10 | 312 |
| Mississippi | MS | 4 | 37 | 57 | 3 | 0 | 0 | 16 | 0 | 6 | 5 | 128 |
| Missouri | MO | 16 | 82 | 157 | 24 | 9 | 1 | 79 | 6 | 38 | 9 | 421 |
| Montana | MT | 0 | 18 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Nebraska | NE | 3 | 46 | 49 | 7 | 0 | 0 | 17 | 4 | 10 | 4 | 140 |
| Nevada | NV | 0 | 53 | 84 | 5 | 0 | 0 | 10 | 6 | 20 | 0 | 178 |
| New Hampshire | NH | 3 | 16 | 30 | 4 | 0 | 0 | 8 | 0 | 9 | 0 | 70 |
| New Jersey | NJ | 7 | 110 | 384 | 21 | 1 | 0 | 87 | 13 | 51 | 4 | 678 |
| New Mexico | NM | 4 | 29 | 39 | 5 | 1 | 0 | 17 | 4 | 12 | 0 | 111 |
| New York | NY | 58 | 293 | 1,459 | 107 | 14 | 4 | 453 | 79 | 296 | 24 | 2,787 |
| North Carolina | NC | 17 | 146 | 198 | 20 | 4 | 0 | 74 | 13 | 58 | 18 | 548 |
| North Dakota | ND | 0 | 30 | 6 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 41 |
| Ohio | ОН | 25 | 199 | 477 | 51 | 13 | 0 | 188 | 13 | 71 | 27 | 1,064 |
| Oklahoma | OK | 3 | 81 | 40 | 6 | 0 | 0 | 37 | 0 | 17 | 3 | 187 |
| Oregon | OR | 7 | 46 | 76 | 5 | 0 | 0 | 19 | 0 | 12 | 0 | 165 |
| Pennsylvania | PA | 32 | 327 | 618 | 63 | 12 | 0 | 150 | 32 | 93 | 16 | 1,343 |
| Puerto Rico | PR | 3 | 26 | 81 | 3 | 0 | 0 | 30 | 6 | 12 | 2 | 163 |
| Rhode Island | RI | 6 | 16 | 66 | 6 | 0 | 0 | 17 | 0 | 9 | 4 | 124 |
| South Carolina | SC | 5 | 112 | 64 | 20 | 1 | 0 | 41 | 0 | 35 | 9 | 287 |
| South Dakota | SD | 0 | 17 | 8 | 0 | 0 | 0 | 6 | 0 | 8 | 0 | 39 |
| Tennessee | TN | 9 | 68 | 129 | 15 | 5 | 0 | 64 | 4 | 26 | 20 | 340 |
| Texas | TX | 45 | 338 | 569 | 66 | 11 | 0 | 242 | 31 | 135 | 21 | 1,458 |
| Utah | UT | 3 | 29 | 31 | 8 | 1 | 0 | 22 | 6 | 13 | 3 | 116 |
| Vermont | VT | 2 | 6 | 15 | 4 | 0 | 0 | 6 | 0 | 4 | 0 | 37 |
| Virginia | VA | 10 | 123 | 178 | 16 | 1 | 0 | 83 | 11 | 50 | 4 | 476 |
| Washington | WA | 4 | 148 | 95 | 9 | 3 | 0 | 48 | 3 | 26 | 0 | 336 |
| West Virginia | WV | 2 | 46 | 58 | 11 | 0 | 3 | 19 | 0 | 20 | 6 | 165 |
| Wisconsin | WI | 11 | 107 | 90 | 10 | 2 | 0 | 46 | 9 | 24 | 8 | 307 |
| 1 1 13CO113111 | V V 1 | 1.1 | 107 | 30 | 10 | 4 | U | 10 | J | 47 | U | 307 |

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.31

| Surgical Specialty | Residents I | Enterin | g the GI | ME Pipe | line by | Special | y and S | tate | | | | | |
|----------------------|-----------------------|---------|----------|---------|---------|---------|---------|------|-------|-----|-----|-----|-------|
| State Name | State Abbreviation | NS | OBG | ОРН | ORS | ото | PS | PSI | GS | VSI | TSI | U | Total |
| OVERALL | - | 233 | 1,481 | 518 | 895 | 348 | 66 | 177 | 1,565 | 76 | 35 | 360 | 5,754 |
| Alabama | AL | 3 | 12 | 5 | 12 | 4 | 2 | 0 | 18 | 1 | 0 | 0 | 57 |
| Alaska | AK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | AZ | 6 | 22 | 4 | 10 | 3 | 0 | 1 | 34 | 1 | 0 | 5 | 86 |
| Arkansas | AR | 2 | 5 | 4 | 5 | 3 | 0 | 0 | 5 | 1 | 0 | 2 | 27 |
| California | CA | 22 | 119 | 45 | 76 | 36 | 1 | 19 | 116 | 8 | 6 | 32 | 480 |
| Colorado | CO | 2 | 14 | 6 | 7 | 4 | 1 | 2 | 24 | 0 | 0 | 3 | 63 |
| Connecticut | CT | 4 | 34 | 5 | 10 | 6 | 0 | 3 | 25 | 1 | 1 | 5 | 94 |
| Delaware | DE | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 13 |
| District of Columbia | DC | 3 | 22 | 13 | 12 | 2 | 0 | 4 | 20 | 2 | 0 | 5 | 83 |
| Florida | FL | 9 | 58 | 23 | 36 | 10 | 5 | 6 | 95 | 3 | 0 | 14 | 259 |
| Georgia | GA | 3 | 30 | 9 | 16 | 7 | 2 | 2 | 39 | 1 | 1 | 7 | 117 |
| Hawaii | HI | 0 | 10 | 0 | 5 | 2 | 0 | 0 | 8 | 0 | 0 | 1 | 26 |
| Idaho | ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | IL | 13 | 62 | 23 | 35 | 16 | 3 | 9 | 60 | 2 | 1 | 19 | 243 |
| Indiana | IN | 3 | 15 | 6 | 6 | 3 | 3 | 2 | 14 | 1 | 1 | 4 | 58 |
| Iowa | IA | 2 | 5 | 5 | 6 | 5 | 1 | 0 | 14 | 1 | 1 | 3 | 43 |
| Kansas | KS | 2 | 14 | 3 | 8 | 4 | 0 | 2 | 16 | 0 | 0 | 4 | 53 |
| Kentucky | KY | 4 | 14 | 8 | 10 | 7 | 2 | 2 | 19 | 0 | 1 | 5 | 72 |
| Louisiana | LA | 5 | 27 | 16 | 12 | 10 | 2 | 2 | 27 | 2 | 0 | 9 | 112 |
| Maine | ME | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 1 | 10 |
| Maryland | MD | 7 | 29 | 14 | 22 | 10 | 1 | 3 | 25 | 0 | 1 | 6 | 118 |
| Massachusetts | MA | 10 | 38 | 17 | 26 | 13 | 5 | 7 | 60 | 5 | 2 | 11 | 194 |
| Michigan | MI | 9 | 103 | 26 | 64 | 20 | 6 | 6 | 98 | 2 | 2 | 21 | 357 |
| Minnesota | MN | 6 | 14 | 9 | 21 | 4 | 1 | 5 | 22 | 2 | 0 | 8 | 92 |
| Mississippi | MS | 1 | 6 | 4 | 4 | 3 | 0 | 2 | 10 | 0 | 0 | 2 | 32 |
| Missouri | MO | 3 | 33 | 21 | 25 | 11 | 0 | 6 | 23 | 2 | 0 | 7 | 131 |
| Montana | MT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | NE | 2 | 9 | 2 | 5 | 3 | 1 | 0 | 10 | 0 | 0 | 3 | 35 |
| Nevada | NV | 0 | 10 | 0 | 6 | 1 | 0 | 1 | 11 | 0 | 0 | 0 | 29 |
| New Hampshire | NH | 1 | 4 | 0 | 4 | 1 | 0 | 1 | 4 | 1 | 0 | 2 | 18 |
| New Jersey | NJ | 3 | 57 | 5 | 27 | 5 | 2 | 3 | 50 | 2 | 0 | 8 | 162 |
| New Mexico | NM | 0 | 6 | 0 | 5 | 2 | 0 | 1 | 6 | 0 | 0 | 2 | 22 |
| New York | NY | 24 | 186 | 71 | 100 | 30 | 3 | 18 | 168 | 11 | 7 | 45 | 663 |
| North Carolina | NC | 8 | 48 | 19 | 24 | 12 | 0 | 8 | 43 | 0 | 1 | 10 | 173 |
| North Dakota | ND | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 7 |
| Ohio | ОН | 9 | 84 | 24 | 60 | 20 | 4 | 12 | 82 | 7 | 3 | 16 | 321 |
| Oklahoma | OK | 2 | 16 | 5 | 8 | 3 | 2 | 0 | 13 | 0 | 0 | 4 | 53 |
| Oregon | OR | 3 | 7 | 5 | 8 | 3 | 0 | 3 | 15 | 0 | 0 | 3 | 47 |
| Pennsylvania | PA | 18 | 90 | 29 | 62 | 19 | 6 | 10 | 107 | 6 | 3 | 24 | 374 |
| Puerto Rico | PR | 1 | 12 | 4 | 4 | 2 | 0 | 0 | 8 | 0 | 0 | 2 | 33 |
| Rhode Island | RI | 2 | 8 | 3 | 6 | 0 | 0 | 2 | 7 | 0 | 0 | 2 | 30 |
| South Carolina | SC | 2 | 16 | 7 | 12 | 4 | 1 | 2 | 21 | 2 | 1 | 3 | 71 |
| South Dakota | SD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Tennessee | TN | 6 | 32 | 10 | 18 | 9 | 4 | 3 | 36 | 0 | 0 | 10 | 128 |
| Texas | TX | 15 | 117 | 39 | 63 | 23 | 6 | 13 | 102 | 6 | 1 | 26 | 411 |
| Utah | UT | 3 | 6 | 4 | 6 | 3 | 2 | 2 | 6 | 0 | 0 | 2 | 34 |
| Vermont | VT | 1 | 3 | 0 | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 1 | 13 |
| Virginia | VA | 6 | 35 | 8 | 14 | 9 | 0 | 6 | 28 | 1 | 1 | 7 | 115 |
| Washington | WA | 3 | 11 | 7 | 11 | 6 | 0 | 4 | 23 | 2 | 1 | 6 | 74 |
| West Virginia | WV | 1 | 9 | 4 | 7 | 3 | 0 | 0 | 13 | 1 | 0 | 4 | 42 |
| Wisconsin | WI | 4 | 18 | 6 | 11 | 6 | 0 | 5 | 20 | 1 | 0 | 6 | 77 |
| Wyoming | WY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

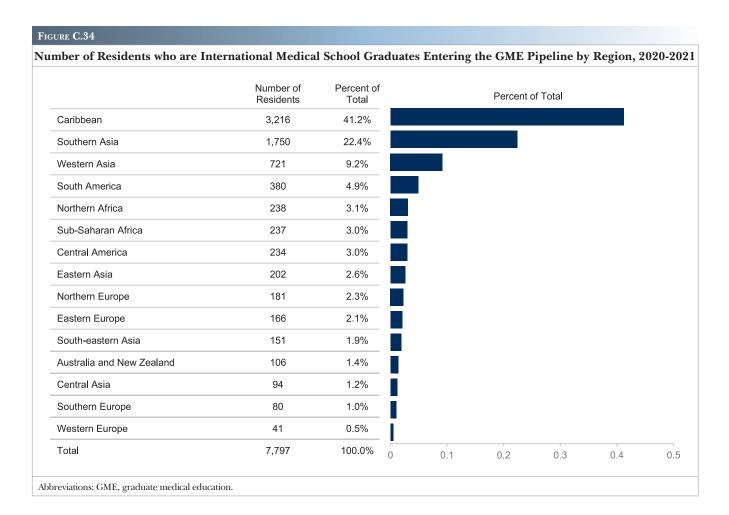
Abbreviations: GME, graduate medical education; NS, Neurological surgery; OBG, Obstetrics and gynecology; OPH, Ophthalmology; ORS, Orthopaedic surgery; OTO, Otolaryngology - head and neck surgery; PS, Plastic surgery - integrated; GS, Surgery; VSI, Vascular surgery - integrated; TSI, Thoracic surgery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

TABLE C.32

| | | | | PGY1 Residents | | |
|---|----------------|---------------------------------|---|----------------|--------------------------------|---|
| Specialty | PGY1 Residents | PGY1 Residents as % of Total | PGY1 Residents with No Prior Training | with No Prior | Entering Pipeline Residents | Entering Pipeline Residents as % of Total |
| OVERALL | 35,923 | 100.0% | 34,602 | 100.0% | 34,754 | 100.0% |
| Anesthesiology | 1,375 | 3.8% | 1,283 | 3.7% | 1,627 | 4.7% |
| Dermatology | 25 | 0.1% | 2 | 0.0% | 531 | 1.5% |
| Emergency medicine | 2,766 | 7.7% | 2,660 | 7.7% | 2,780 | 8.0% |
| Family medicine | 4,925 | 13.7% | 4,740 | 13.7% | 4,925 | 14.2% |
| Internal medicine | 11,777 | 32.8% | 11,397 | 32.9% | 9,628 | 27.7% |
| Medical genetics and genomics | 2 | 0.0% | 2 | 0.0% | 32 | 0.1% |
| Neurological surgery | 233 | 0.6% | 224 | 0.6% | 233 | 0.7% |
| Neurology | 597 | 1.7% | 557 | 1.6% | 924 | 2.7% |
| Child neurology | 0 | 0.0% | 0 | 0.0% | 141 | 0.4% |
| Nuclear medicine | 0 | 0.0% | 0 | 0.0% | 33 | 0.1% |
| Obstetrics and gynecology | 1,499 | 4.2% | 1,454 | 4.2% | 1,481 | 4.3% |
| Ophthalmology | 0 | 0.0% | 0 | 0.0% | 518 | 1.5% |
| Orthopaedic surgery | 895 | 2.5% | 866 | 2.5% | 895 | 2.6% |
| Osteopathic neuromusculoskeletal medicine | 12 | 0.0% | 11 | 0.0% | 12 | 0.0% |
| Otolaryngology - head and neck surgery | 348 | 1.0% | 338 | 1.0% | 348 | 1.0% |
| Pathology-anatomic and clinical | 606 | 1.7% | 571 | 1.7% | 606 | 1.7% |
| Pediatrics | 3,241 | 9.0% | 3,194 | 9.2% | 3,159 | 9.1% |
| Physical medicine and rehabilitation | 143 | 0.4% | 139 | 0.4% | 422 | 1.2% |
| Plastic surgery | 0 | 0.0% | 0 | 0.0% | 66 | 0.2% |
| Plastic surgery - integrated | 177 | 0.5% | 171 | 0.5% | 177 | 0.5% |
| Preventive medicine | 5 | 0.0% | 0 | 0.0% | 172 | 0.5% |
| Psychiatry | 1,964 | 5.5% | 1,917 | 5.5% | 1,964 | 5.7% |
| Radiation oncology | 0 | 0.0% | 0 | 0.0% | 202 | 0.6% |
| Radiology-diagnostic | 0 | 0.0% | 0 | 0.0% | 1,156 | 3.3% |
| Interventional radiology - independent | 0 | 0.0% | 0 | 0.0% | 149 | 0.4% |
| Interventional radiology - integrated | 0 | 0.0% | 0 | 0.0% | 154 | 0.4% |
| Surgery | 2,786 | 7.8% | 2,611 | 7.5% | 1,565 | 4.5% |
| Vascular surgery - integrated | 76 | 0.2% | 71 | 0.2% | 76 | 0.2% |
| Thoracic surgery - integrated | 35 | 0.1% | 33 | 0.1% | 35 | 0.1% |
| Urology | 360 | 1.0% | 350 | 1.0% | 360 | 1.0% |
| Transitional year | 1,693 | 4.7% | 1,633 | 4.7% | 0 | 0.0% |
| Internal medicine/Pediatrics | 383 | 1.1% | 378 | 1.1% | 383 | 1.1% |

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

| 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 | 35,923 | 100.0% | 34,602 | 100.0% | 34,754 | 100.0% | | | | | | |
| Alabama | 388 | 1.1% | 382 | 1.1% | 393 | 1.1% | | | | | | |
| Alaska | 12 | 0.0% | 12 | 0.0% | 12 | 0.0% | | | | | | |
| Arizona | 521 | 1.5% | 506 | 1.5% | 490 | 1.4% | | | | | | |
| Arkansas | 295 | 0.8% | 283 | 0.8% | 284 | 0.8% | | | | | | |
| California | 3,225 | 9.0% | 3,114 | 9.0% | 3,138 | 9.0% | | | | | | |
| Colorado | 382 | 1.1% | 371 | 1.1% | 373 | 1.1% | | | | | | |
| Connecticut | 584 | 1.6% | 566 | 1.6% | 569 | 1.6% | | | | | | |
| Delaware | 92 | 0.3% | 89 | 0.3% | 94 | 0.3% | | | | | | |
| District of Columbia | 384 | 1.1% | 375 | 1.1% | 374 | 1.1% | | | | | | |
| Florida | 2,026 | 5.6% | 1,934 | 5.6% | 1,935 | 5.6% | | | | | | |
| Georgia | 847 | 2.4% | 788 | 2.3% | 786 | 2.3% | | | | | | |
| Hawaii | 124 | 0.3% | 116 | 0.3% | 114 | 0.3% | | | | | | |
| | | | | | | | | | | | | |
| Idaho | 66 | 0.2% | 64 | 0.2% | 62 | 0.2% | | | | | | |
| Illinois | 1,685 | 4.7% | 1,634 | 4.7% | 1,629 | 4.7% | | | | | | |
| Indiana | 404 | 1.1% | 399 | 1.2% | 395 | 1.1% | | | | | | |
| Iowa | 229 | 0.6% | 223 | 0.6% | 228 | 0.7% | | | | | | |
| Kansas | 206 | 0.6% | 203 | 0.6% | 205 | 0.6% | | | | | | |
| Kentucky | 381 | 1.1% | 361 | 1.0% | 367 | 1.1% | | | | | | |
| Louisiana | 557 | 1.6% | 537 | 1.6% | 544 | 1.6% | | | | | | |
| Maine | 98 | 0.3% | 95 | 0.3% | 99 | 0.3% | | | | | | |
| Maryland | 718 | 2.0% | 682 | 2.0% | 689 | 2.0% | | | | | | |
| Massachusetts | 1,179 | 3.3% | 1,155 | 3.3% | 1,195 | 3.4% | | | | | | |
| Michigan | 1,871 | 5.2% | 1,781 | 5.1% | 1,799 | 5.2% | | | | | | |
| Minnesota | 476 | 1.3% | 469 | 1.4% | 513 | 1.5% | | | | | | |
| Mississippi | 218 | 0.6% | 204 | 0.6% | 193 | 0.6% | | | | | | |
| Missouri | 685 | 1.9% | 664 | 1.9% | 705 | 2.0% | | | | | | |
| Montana | 30 | 0.1% | 28 | 0.1% | 26 | 0.1% | | | | | | |
| Nebraska | 212 | 0.6% | 202 | 0.6% | 214 | 0.6% | | | | | | |
| Nevada | 291 | 0.8% | 269 | 0.8% | 249 | 0.7% | | | | | | |
| New Hampshire | 107 | 0.3% | 102 | 0.3% | 115 | 0.3% | | | | | | |
| New Jersey | 1,048 | 2.9% | 1,004 | 2.9% | 996 | 2.9% | | | | | | |
| New Mexico | 167 | 0.5% | 162 | 0.5% | 166 | 0.5% | | | | | | |
| New York | 4,592 | 12.8% | 4,426 | 12.8% | 4,336 | 12.5% | | | | | | |
| North Carolina | 910 | 2.5% | 874 | 2.5% | 906 | 2.6% | | | | | | |
| North Dakota | 60 | 0.2% | 58 | 0.2% | 48 | 0.1% | | | | | | |
| Ohio | 1,787 | 5.0% | 1,705 | 4.9% | 1,724 | 5.0% | | | | | | |
| Oklahoma | 307 | 0.9% | 298 | 0.9% | 311 | 0.9% | | | | | | |
| Oregon | 252 | 0.5% | 244 | 0.5% | 254 | 0.7% | | | | | | |
| Pennsylvania | 2,200 | | 2,101 | 6.1% | 2,157 | 6.2% | | | | | | |
| | | 6.1% | | | | | | | | | | |
| Puerto Rico | 281 | 0.8% | 257 | 0.7% | 224 | 0.6% | | | | | | |
| Rhode Island | 189 | 0.5% | 187 | 0.5% | 201 | 0.6% | | | | | | |
| South Carolina | 482 | 1.3% | 465 | 1.3% | 460 | 1.3% | | | | | | |
| South Dakota | 52 | 0.1% | 49 | 0.1% | 44 | 0.1% | | | | | | |
| Tennessee | 588 | 1.6% | 578 | 1.7% | 576 | 1.7% | | | | | | |
| Texas | 2,397 | 6.7% | 2,325 | 6.7% | 2,329 | 6.7% | | | | | | |
| Utah | 180 | 0.5% | 177 | 0.5% | 184 | 0.5% | | | | | | |
| Vermont | 68 | 0.2% | 68 | 0.2% | 73 | 0.2% | | | | | | |
| Virginia | 766 | 2.1% | 746 | 2.2% | 729 | 2.1% | | | | | | |
| Washington | 539 | 1.5% | 528 | 1.5% | 515 | 1.5% | | | | | | |
| West Virginia | 261 | 0.7% | 252 | 0.7% | 240 | 0.7% | | | | | | |
| Wisconsin | 489 | 1.4% | 476 | 1.4% | 477 | 1.4% | | | | | | |
| Wyoming | 15 | 0.0% | 14 | 0.0% | 15 | 0.0% | | | | | | |



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 2019-2020 academic year was reported during the fall of the 2020-2021 academic year, therefore, the following data includes only those residents who graduated or left their programs between September 1, 2019 and August 31, 2020.

Graduating Residents

Of the 46,401 residents graduating from ACGME-accredited programs in the 2019-2020 academic year, 62.8% graduated from a program in a medical specialty or subspecialty, 22.4% graduated from a program in a hospital-based specialty or subspecialty, and 14.9% graduated from a program in a surgical specialty or subspecialty. From the 2010-2011 academic year to the 2019-2020 academic year, there was a 27.0% increase in graduating residents (a 25.8% increase in specialty program graduates and a 29.9% increase in subspecialty program graduates). The specialties with the highest number of graduating residents in the 2019-2020 academic year include:

- Internal medicine (8,779)
- Family medicine (4,364)
- Pediatrics (2,997)
- Emergency medicine (2,445)

International medical school graduates account for 11,514 (24.8%) of all graduating residents.

Residents Completing Preliminary Education and Training and Transitional Year Graduates

There were 3,337 residents who completed preliminary education and training and 1,588 residents graduating from transitional year programs during the 2019-2020 academic year, for a total of 4,925 residents completing the necessary prerequisite education and training for specialty programs that require a clinical base year. Of the 3,337 preliminary education and training graduates, 2,134 (63.9%) were in internal medicine, 1,102 (33.0%) were in surgery, 90 (2.7%) were in pediatrics,

and 11 (0.3%) 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 3,118 in 2011-2012. Since 2011-2012, there has been a 34.6% increase in the number of residents completing transitional year programs.

Geographic Distribution of Graduates

There were approximately 13.95 graduating residents per 100,000 population, including Puerto Rico, during the 2019-2020 academic year (9.99 specialty graduates and 3.96 subspecialty graduates). The following states have the highest total number of graduating residents:

- New York (5,875)
- California (4,211)
- Texas (3,053)
- Pennsylvania (2,995)

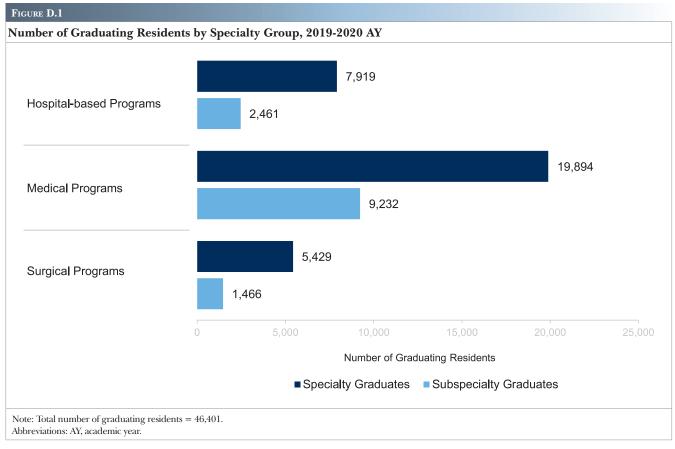
The concentration of specialty graduates ranges from 1.78 per 100,000 population in Alaska to 71.97 per 100,000 population in the District of Columbia.

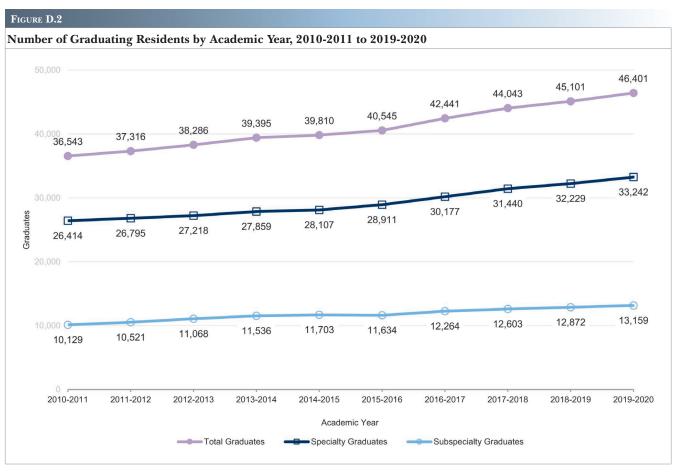
Residents Leaving Prior to Completion

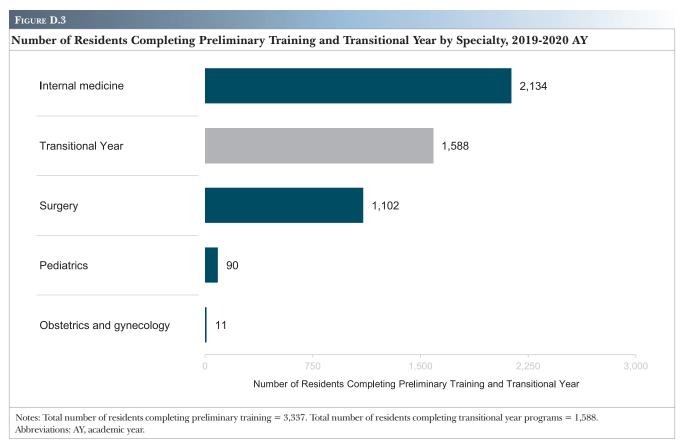
In the 2019-2020 academic year, 2,062 left their programs prior to successful completion with statuses of either transferred (51.7%), withdrawn (37.1%), dismissed (9.8%), unsuccessfully completed program (0.7%), or deceased (0.6%). The following specialties have the highest number of transferring residents:

- Psychiatry (366)
- Surgery (117)
- Family medicine (94)
- Internal medicine (91)

Overall, of the 1,006 transfers that occurred among residents in specialty programs during the 2019-2020 academic year, 358 (35.6%) occurred during the first year of the program, 203 (20.2%) occurred during the second year of the program, 394 (39.2%) occurred during the third year of the program, and 51 (5.1%) occurred in the fourth, fifth, or sixth year of the program. A







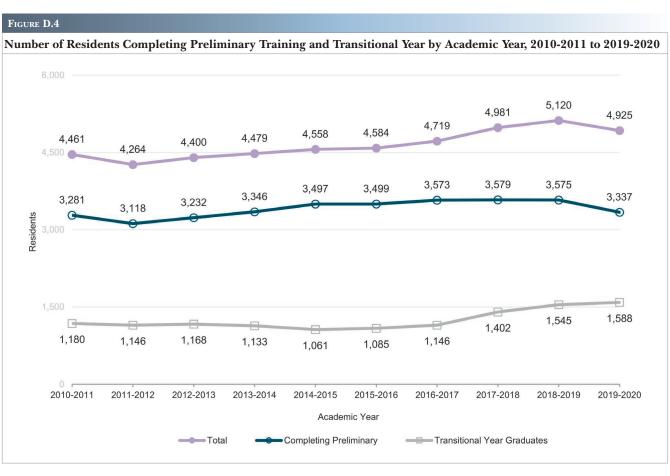


TABLE D.5

Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2019-2020 AY

| Specialty | Total Graduates | Percent of Total Graduates | Number of Residents Completing Preliminary Training | Percent of Total Residents Completing Preliminary Training |
|--|-----------------|-------------------------------|---|--|
| OVERALL | 46,401 | 100.0% | 3,337 | 100.0% |
| TOTAL PIPELINE | 31,295 | 67.4% | 3,337 | 100.0% |
| Allergy and immunology | 158 | 0.3% | 0 | 0.0% |
| Anesthesiology | 1,728 | 3.7% | 0 | 0.0% |
| - Adult cardiothoracic anesthesiology | 225 | 0.5% | 0 | 0.0% |
| - Clinical informatics | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 194 | 0.4% | 0 | 0.0% |
| - Regional anesthesiology and acute pain medicine | 76 | 0.2% | 0 | 0.0% |
| - Obstetric anesthesiology | 40 | 0.1% | 0 | 0.0% |
| - Pain medicine (multidisciplinary) | 395 | 0.9% | 0 | 0.0% |
| - Pediatric anesthesiology | 216 | 0.5% | 0 | 0.0% |
| 9, | 104 | 0.2% | 0 | 0.0% |
| Colon and rectal surgery | | | - | |
| Dermatology | 514 | 1.1% | 0 | 0.0% |
| - Dermatopathology (multidisciplinary) | 69 | 0.1% | 0 | 0.0% |
| - Micrographic surgery and dermatologic oncology | 86 | 0.2% | 0 | 0.0% |
| Emergency medicine | 2,455 | 5.3% | 0 | 0.0% |
| - Clinical informatics | 4 | 0.0% | 0 | 0.0% |
| - Emergency medical services | 90 | 0.2% | 0 | 0.0% |
| - Medical toxicology | 36 | 0.1% | 0 | 0.0% |
| - Pediatric emergency medicine | 46 | 0.1% | 0 | 0.0% |
| - Sports medicine | 17 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 10 | 0.0% | 0 | 0.0% |
| Family medicine | 4,364 | 9.4% | 0 | 0.0% |
| - Clinical informatics | 6 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 41 | 0.1% | 0 | 0.0% |
| - Hospice and palliative medicine (multidisciplinary) | 377 | 0.8% | 0 | 0.0% |
| - Sports medicine | 259 | 0.6% | 0 | 0.0% |
| Internal medicine | 8,779 | 18.9% | 2,134 | 63.9% |
| - Adult congenital heart disease | 17 | 0.0% | 0 | 0.0% |
| - Advanced heart failure and transplant cardiology | 110 | 0.2% | 0 | 0.0% |
| - Cardiovascular disease | 997 | 2.1% | 0 | 0.0% |
| - Clinical cardiac electrophysiology | 127 | 0.3% | 0 | 0.0% |
| - Clinical informatics | 20 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 160 | 0.3% | 0 | 0.0% |
| - Endocrinology, diabetes, and metabolism | 326 | 0.7% | 0 | 0.0% |
| - Gastroenterology | 583 | 1.3% | 0 | 0.0% |
| - Geriatric medicine | 267 | 0.6% | 0 | 0.0% |
| - Hematology | 10 | 0.0% | 0 | 0.0% |
| | 620 | | 0 | 0.0% |
| Hematology and medical oncology Infectious disease | 389 | 1.3% 0.8% | 0 | 0.0% |
| | | | | |
| - Interventional cardiology | 349 | 0.8% | 0 | 0.0% |
| - Nephrology | 416 | 0.9% | 0 | 0.0% |
| - Medical oncology | 21 | 0.0% | 0 | 0.0% |
| - Pulmonary disease | 32 | 0.1% | 0 | 0.0% |
| - Pulmonary disease and critical care medicine | 647 | 1.4% | 0 | 0.0% |
| - Rheumatology | 260 | 0.6% | 0 | 0.0% |
| - Sleep medicine (multidisciplinary) | 181 | 0.4% | 0 | 0.0% |
| - Transplant hepatology | 55 | 0.1% | 0 | 0.0% |
| Medical genetics and genomics | 25 | 0.1% | 0 | 0.0% |
| - Medical biochemical genetics | 16 | 0.0% | 0 | 0.0% |
| - Molecular genetic pathology (multidisciplinary) | 54 | 0.1% | 0 | 0.0% |
| Neurological surgery | 193 | 0.4% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 1 | 0.0% | 0 | 0.0% |

Table D.5 Continued

Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2019-2020 AY

| Specialty | Total Graduates | Percent of Total Graduates | Number of Residents Completing Preliminary Training | Percent of Total Residents Completing Preliminary Training |
|---|-----------------|-------------------------------|---|--|
| Neurology | 806 | 1.7% | 0 | 0.0% |
| - Brain injury medicine | 1 | 0.0% | 0 | 0.0% |
| - Clinical neurophysiology | 165 | 0.4% | 0 | 0.0% |
| - Epilepsy | 128 | 0.3% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 2 | 0.0% | 0 | 0.0% |
| - Neurodevelopmental disabilities | 6 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 75 | 0.2% | 0 | 0.0% |
| - Vascular neurology | 128 | 0.3% | 0 | 0.0% |
| Child neurology | 127 | 0.3% | 0 | 0.0% |
| Nuclear medicine | 39 | 0.1% | 0 | 0.0% |
| | | 2.9% | 11 | |
| Obstetrics and gynecology | 1,361 | | | 0.3% |
| - Female pelvic medicine and reconstructive surgery | 53 | 0.1% | 0 | 0.0% |
| - Gynecologic oncology | 67 | 0.1% | 0 | 0.0% |
| - Maternal-fetal medicine | 110 | 0.2% | 0 | 0.0% |
| - Reproductive endocrinology and infertility | 55 | 0.1% | 0 | 0.0% |
| - Complex family planning | 0 | 0.0% | 0 | 0.0% |
| Ophthalmology | 501 | 1.1% | 0 | 0.0% |
| - Ophthalmic plastic and reconstructive surgery | 3 | 0.0% | 0 | 0.0% |
| Orthopaedic surgery | 842 | 1.8% | 0 | 0.0% |
| - Adult reconstructive orthopaedics | 45 | 0.1% | 0 | 0.0% |
| - Foot and ankle orthopaedics | 15 | 0.0% | 0 | 0.0% |
| - Hand surgery | 151 | 0.3% | 0 | 0.0% |
| - Musculoskeletal oncology | 18 | 0.0% | 0 | 0.0% |
| - Orthopaedic sports medicine | 216 | 0.5% | 0 | 0.0% |
| - Orthopaedic surgery of the spine | 27 | 0.1% | 0 | 0.0% |
| - Orthopaedic trauma | 20 | 0.0% | 0 | 0.0% |
| - Pediatric orthopaedics | 38 | 0.1% | 0 | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 34 | 0.1% | 0 | 0.0% |
| Otolaryngology - head and neck surgery | 331 | 0.7% | 0 | 0.0% |
| - Neurotology | 16 | 0.0% | 0 | 0.0% |
| - Pediatric otolaryngology | 37 | 0.1% | 0 | 0.0% |
| Pathology-anatomic and clinical | 594 | 1.3% | 0 | 0.0% |
| - Blood banking/transfusion medicine | 50 | 0.1% | 0 | 0.0% |
| - Clinical informatics | 6 | 0.1% | 0 | 0.0% |
| | 2 | | | |
| - Chemical pathology | | 0.0% | 0 | 0.0% |
| - Cytopathology | 129 | 0.3% | 0 | 0.0% |
| - Forensic pathology | 54 | 0.1% | 0 | 0.0% |
| - Hematopathology | 131 | 0.3% | 0 | 0.0% |
| - Medical microbiology | 9 | 0.0% | 0 | 0.0% |
| - Neuropathology | 26 | 0.1% | 0 | 0.0% |
| - Pediatric pathology | 24 | 0.1% | 0 | 0.0% |
| - Selective pathology | 171 | 0.4% | 0 | 0.0% |
| Pediatrics | 2,997 | 6.5% | 90 | 2.7% |
| - Adolescent medicine | 33 | 0.1% | 0 | 0.0% |
| - Child abuse pediatrics | 12 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 7 | 0.0% | 0 | 0.0% |
| - Developmental-behavioral pediatrics | 30 | 0.1% | 0 | 0.0% |
| - Neonatal-perinatal medicine | 247 | 0.5% | 0 | 0.0% |
| - Pediatric cardiology | 144 | 0.3% | 0 | 0.0% |
| - Pediatric critical care medicine | 186 | 0.4% | 0 | 0.0% |
| - Pediatric emergency medicine | 144 | 0.3% | 0 | 0.0% |
| - Pediatric endocrinology | 76 | 0.2% | 0 | 0.0% |
| - Pediatric gastroenterology | 101 | 0.2% | 0 | 0.0% |

Table D.5 Continued

Number of Graduating Residents and Residents Completing Preliminary Training by Specialty and Subspecialty, 2019-2020 AY

| Specialty | Total Graduates | Percent of Total Graduates | Number of Residents Completing Preliminary Training | Percent of Total Residents Completing Preliminary Training |
|---|-----------------|-------------------------------|---|--|
| - Pediatric hematology/oncology | 162 | 0.3% | 0 | 0.0% |
| - Pediatric infectious diseases | 65 | 0.1% | 0 | 0.0% |
| - Pediatric nephrology | 37 | 0.1% | 0 | 0.0% |
| - Pediatric pulmonology | 49 | 0.1% | 0 | 0.0% |
| - Pediatric rheumatology | 34 | 0.1% | 0 | 0.0% |
| - Sports medicine | 25 | 0.1% | 0 | 0.0% |
| | | | | |
| - Pediatric transplant hepatology | 10 | 0.0% | 0 | 0.0% |
| - Pediatric hospital medicine | 38 | 0.1% | 0 | 0.0% |
| Physical medicine and rehabilitation | 426 | 0.9% | 0 | 0.0% |
| - Brain injury medicine | 17 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 1 | 0.0% | 0 | 0.0% |
| - Spinal cord injury medicine | 22 | 0.0% | 0 | 0.0% |
| - Pediatric rehabilitation medicine | 19 | 0.0% | 0 | 0.0% |
| - Sports medicine | 32 | 0.1% | 0 | 0.0% |
| Plastic surgery | 76 | 0.2% | 0 | 0.0% |
| Plastic surgery - integrated | 137 | 0.3% | 0 | 0.0% |
| - Craniofacial surgery | 5 | 0.0% | 0 | 0.0% |
| - Hand surgery | 22 | 0.0% | 0 | 0.0% |
| Preventive medicine | 179 | 0.4% | 0 | 0.0% |
| - Medical toxicology | 2 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 1 | 0.0% | 0 | 0.0% |
| Psychiatry | 1,312 | 2.8% | 0 | 0.0% |
| - Addiction medicine (multidisciplinary) | 81 | 0.2% | 0 | 0.0% |
| - Addiction psychiatry | 78 | 0.2% | 0 | 0.0% |
| - Child and adolescent psychiatry | 434 | 0.9% | 0 | 0.0% |
| - Forensic psychiatry | 82 | 0.2% | 0 | 0.0% |
| - Geriatric psychiatry | 45 | 0.1% | 0 | 0.0% |
| - Consultation-liaison psychiatry | 91 | 0.2% | 0 | 0.0% |
| Radiation oncology | 193 | 0.4% | 0 | 0.0% |
| Radiology-diagnostic | 1,093 | 2.4% | 0 | 0.0% |
| - Abdominal radiology | 46 | 0.1% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 4 | 0.0% | 0 | 0.0% |
| - Musculoskeletal radiology | 35 | 0.1% | 0 | 0.0% |
| - Neuroradiology | 282 | 0.6% | 0 | 0.0% |
| - Nuclear radiology | 13 | 0.0% | 0 | 0.0% |
| - Pediatric radiology | 57 | 0.1% | 0 | 0.0% |
| Interventional radiology - independent | 0 | 0.0% | 0 | 0.0% |
| Interventional radiology - integrated | 25 | 0.1% | 0 | 0.0% |
| 9, 9 | 1,381 | 3.0% | 1,102 | 33.0% |
| - Complex general surgical oncology | | | | |
| 1 0 0 0, | 56 | 0.1% | 0 | 0.0% |
| - Hand surgery | 8 | 0.0% | 0 | 0.0% |
| - Pediatric surgery | 40 | 0.1% | 0 | 0.0% |
| - Surgical critical care | 293 | 0.6% | 0 | 0.0% |
| - Vascular surgery | 125 | 0.3% | 0 | 0.0% |
| Vascular surgery - integrated | 54 | 0.1% | 0 | 0.0% |
| Thoracic surgery | 97 | 0.2% | 0 | 0.0% |
| - Congenital cardiac surgery | 9 | 0.0% | 0 | 0.0% |
| Thoracic surgery - integrated | 22 | 0.0% | 0 | 0.0% |
| Urology | 330 | 0.7% | 0 | 0.0% |
| - Female pelvic medicine and reconstructive surgery | 17 | 0.0% | 0 | 0.0% |
| - Pediatric urology | 19 | 0.0% | 0 | 0.0% |
| Transitional year | 1,588 | 3.4% | 0 | 0.0% |
| Internal medicine/Pediatrics | 377 | 0.8% | 0 | 0.0% |

Abbreviations: AY, academic year.

| 4.0 | | | n | • |
|-----|----|-----|---|---|
| _ | ΑŒ | amn | | n |

| Number of Graduating Residents by Spo | ecialty and | d Subsp | ecialty | and Mo | edical S | chool 7 | Type, 20 | 19-202 | 0 AY | | |
|---|-------------|---------|-----------------------------|--------|---------------------|---------|--------------------|--------|-------------------|---|--------------------|
| | Total | Accre | CME - edited l School | | ational l School | | pathic l School | | adian l School | | Iedical Unknown |
| Specialty | Graduates | # | % | # | % | # | % | # | % | # | % |
| OVERALL | 46,401 | 27,091 | 58.4% | 11,514 | 24.8% | 7,707 | 16.6% | 88 | 0.2% | 1 | 0.0% |
| TOTAL PIPELINE | 31,295 | 18,406 | 58.8% | 7,137 | 22.8% | 5,735 | 18.3% | 17 | 0.1% | | |
| Allergy and immunology | 158 | 109 | 69.0% | 31 | 19.6% | 17 | 10.8% | 1 | 0.6% | 0 | 0.0% |
| Anesthesiology | 1,728 | 1,253 | 72.5% | 221 | 12.8% | 254 | 14.7% | 0 | 0.0% | 0 | 0.0% |
| - Adult cardiothoracic anesthesiology | 225 | 168 | 74.7% | 26 | 11.6% | 30 | 13.3% | 1 | 0.4% | 0 | 0.0% |
| - Clinical informatics | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Critical care medicine | 194 | 142 | 73.2% | 35 | 18.0% | 17 | 8.8% | 0 | 0.0% | 0 | 0.0% |
| - Regional anesthesiology and acute pain medicine | 76 | 57 | 75.0% | 11 | 14.5% | 8 | 10.5% | 0 | 0.0% | 0 | 0.0% |
| - Obstetric anesthesiology | 40 | 30 | 75.0% | 8 | 20.0% | 2 | 5.0% | 0 | 0.0% | 0 | 0.0% |
| - Pain medicine (multidisciplinary) | 395 | 256 | 64.8% | 72 | 18.2% | 67 | 17.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric anesthesiology | 216 | 154 | 71.3% | 40 | 18.5% | 20 | 9.3% | 2 | 0.9% | 0 | 0.0% |
| Colon and rectal surgery | 104 | 78 | 75.0% | 20 | 19.2% | 4 | 3.8% | 2 | 1.9% | 0 | 0.0% |
| Dermatology | 514 | 433 | 84.2% | 14 | 2.7% | 67 | 13.0% | 0 | 0.0% | 0 | 0.0% |
| - Dermatopathology (multidisciplinary) | 69 | 50 | 72.5% | 14 | 20.3% | 5 | 7.2% | 0 | 0.0% | 0 | 0.0% |
| - Micrographic surgery and dermatologic oncology | 86 | 73 | 84.9% | 3 | 3.5% | 9 | 10.5% | 1 | 1.2% | 0 | 0.0% |
| Emergency medicine | 2,455 | 1,670 | 68.0% | 116 | 4.7% | 668 | 27.2% | 1 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 4 | 3 | 75.0% | 0 | 0.0% | 1 | 25.0% | 0 | 0.0% | 0 | 0.0% |
| - Emergency medical services | 90 | 64 | 71.1% | 8 | 8.9% | 18 | 20.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical toxicology | 36 | 30 | 83.3% | 2 | 5.6% | 3 | 8.3% | 1 | 2.8% | 0 | 0.0% |
| - Pediatric emergency medicine | 46 | 29 | 63.0% | 14 | 30.4% | 3 | 6.5% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 17 | 12 | 70.6% | 4 | 23.5% | 1 | 5.9% | 0 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 10 | 7 | 70.0% | 2 | 20.0% | 1 | 10.0% | 0 | 0.0% | 0 | 0.0% |
| Family medicine | 4,364 | 1,787 | 40.9% | 1,107 | 25.4% | 1,469 | 33.7% | 1 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 6 | 4 | 66.7% | 2 | 33.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 41 | 17 | 41.5% | 16 | 39.0% | 8 | 19.5% | 0 | 0.0% | 0 | 0.0% |
| - Hospice and palliative medicine (multidisciplinary) | 377 | 216 | 57.3% | 108 | 28.6% | 51 | 13.5% | 2 | 0.5% | 0 | 0.0% |
| - Sports medicine | 259 | 116 | 44.8% | 38 | 14.7% | 105 | 40.5% | 0 | 0.0% | 0 | 0.0% |
| Internal medicine | 8,779 | 3,789 | 43.2% | 3,519 | 40.1% | 1,466 | 16.7% | 5 | 0.1% | 0 | 0.0% |
| - Adult congenital heart disease | 17 | 14 | 82.4% | 3 | 17.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Advanced heart failure and transplant cardiology | 110 | 59 | 53.6% | 39 | 35.5% | 11 | 10.0% | 1 | 0.9% | 0 | 0.0% |
| - Cardiovascular disease | 997 | 510 | 51.2% | 362 | 36.3% | 125 | 12.5% | 0 | 0.0% | 0 | 0.0% |
| - Clinical cardiac electrophysiology | 127 | 64 | 50.4% | 54 | 42.5% | 8 | 6.3% | 1 | 0.8% | 0 | 0.0% |
| - Clinical informatics | 20 | 13 | 65.0% | 6 | 30.0% | 0 | 0.0% | 1 | 5.0% | 0 | 0.0% |
| - Critical care medicine | 160 | 44 | 27.5% | 88 | 55.0% | 27 | 16.9% | 1 | 0.6% | 0 | 0.0% |
| - Endocrinology, diabetes, and metabolism | 326 | 128 | 39.3% | 164 | | 34 | 10.4% | 0 | 0.0% | 0 | 0.0% |
| - Gastroenterology | 583 | 338 | 58.0% | 178 | 30.5% | 67 | 11.5% | 0 | 0.0% | 0 | 0.0% |
| - Geriatric medicine | 267 | 78 | 29.2% | 159 | 59.6% | 28 | 10.5% | 2 | 0.7% | 0 | 0.0% |
| - Hematology | 10 | 6 | 60.0% | 4 | 40.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hematology and medical oncology | 620 | 338 | 54.5% | 247 | 39.8% | 35 | 5.6% | 0 | 0.0% | 0 | 0.0% |
| - Infectious disease | 389 | 178 | 45.8% | 164 | 42.2% | 47 | 12.1% | 0 | 0.0% | 0 | 0.0% |
| - Interventional cardiology | 349 | 130 | 37.2% | 182 | 52.1% | 36 | 10.3% | 1 | 0.3% | 0 | 0.0% |
| - Nephrology | 416 | 105 | 25.2% | 265 | 63.7% | 46 | 11.1% | 0 | 0.0% | 0 | 0.0% |
| - Medical oncology | 21 | 10 | 47.6% | 9 | 42.9% | 2 | 9.5% | 0 | 0.0% | 0 | 0.0% |
| - Pulmonary disease | 32 | 4 | 12.5% | 24 | 75.0% | 4 | 12.5% | 0 | 0.0% | 0 | 0.0% |
| - Pulmonary disease and critical care medicine | 647 | 321 | 49.6% | 250 | 38.6% | 75 | 11.6% | 1 | 0.2% | 0 | 0.0% |
| - Rheumatology | 260 | 138 | 53.1% | 82 | 31.5% | 39 | 15.0% | 1 | 0.4% | 0 | 0.0% |
| - Sleep medicine (multidisciplinary) | 181 | 65 | 35.9% | 92 | 50.8% | 23 | 12.7% | 1 | 0.6% | 0 | 0.0% |
| - Transplant hepatology | 55 | 38 | 69.1% | 15 | 27.3% | 0 | 0.0% | 2 | 3.6% | 0 | 0.0% |
| Medical genetics and genomics | 25 | 15 | 60.0% | 8 | 32.0% | 2 | 8.0% | 0 | 0.0% | 0 | 0.0% |
| - Medical biochemical genetics | 16 | 11 | 68.8% | 4 | 25.0% | 1 | 6.3% | 0 | 0.0% | 0 | 0.0% |
| - Molecular genetic pathology (multidisciplinary) | 54 | 27 | 50.0% | 23 | 42.6% | 3 | 5.6% | 1 | 1.9% | 0 | 0.0% |
| Neurological surgery | 193 | 179 | 92.7% | 10 | 5.2% | 4 | 2.1% | 0 | 0.0% | 0 | 0.0% |
| - Endovascular surgical neuroradiology | 1 | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| TABLE | DA | Conti | marad |
|-------|----|-------|-------|

| | | US LCME - Accredited Medical School | | International Medical School | | Osteopathic Medical School | | Canadian Medical School | | US Medical School Unknown | |
|---|--------------------|---|--------|---------------------------------|--------|-------------------------------|-------|----------------------------|-------|------------------------------|------|
| Specialty | Total Graduates | # | % | # | % | # | % | # | % | # | % |
| Neurology | 806 | 451 | 56.0% | 245 | 30.4% | 109 | 13.5% | 1 | 0.1% | 0 | 0.0% |
| - Brain injury medicine | 1 | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical neurophysiology | 165 | 86 | 52.1% | 61 | 37.0% | 16 | 9.7% | 2 | 1.2% | 0 | 0.0% |
| - Epilepsy | 128 | 69 | 53.9% | 42 | 32.8% | 14 | 10.9% | 2 | 1.6% | 1 | 0.8% |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neurodevelopmental disabilities | 6 | 5 | 83.3% | 1 | 16.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neuromuscular medicine | 75 | 47 | 62.7% | 24 | 32.0% | 4 | 5.3% | 0 | 0.0% | 0 | 0.0% |
| - Vascular neurology | 128 | 57 | 44.5% | 59 | 46.1% | 11 | 8.6% | 1 | 0.8% | 0 | 0.0% |
| Child neurology | 127 | 85 | 66.9% | 32 | 25.2% | 10 | 7.9% | 0 | 0.0% | 0 | 0.0% |
| Nuclear medicine | 39 | 14 | 35.9% | 25 | 64.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Obstetrics and gynecology | 1,361 | 1,021 | 75.0% | 123 | 9.0% | 216 | 15.9% | 1 | 0.1% | 0 | 0.0% |
| - Female pelvic medicine and reconstructive surgery | 53 | 43 | 81.1% | 5 | 9.4% | 5 | 9.4% | 0 | 0.0% | 0 | 0.0% |
| - Gynecologic oncology | 67 | 51 | 76.1% | 8 | 11.9% | 8 | 11.9% | 0 | 0.0% | 0 | 0.0% |
| - Maternal-fetal medicine | 110 | 88 | 80.0% | 16 | 14.5% | 6 | 5.5% | 0 | 0.0% | 0 | 0.0% |
| - Reproductive endocrinology and infertility | 55 | 44 | 80.0% | 7 | 12.7% | 4 | 7.3% | 0 | 0.0% | 0 | 0.0% |
| - Complex family planning | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Ophthalmology | 501 | 459 | 91.6% | 14 | 2.8% | 28 | 5.6% | 0 | 0.0% | 0 | 0.0% |
| - Ophthalmic plastic and reconstructive surgery | 3 | 2 | 66.7% | 1 | 33.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Orthopaedic surgery | 842 | 705 | 83.7% | 12 | 1.4% | 125 | 14.8% | 0 | 0.0% | 0 | 0.0% |
| - Adult reconstructive orthopaedics | 45 | 34 | 75.6% | 5 | 11.1% | 4 | 8.9% | 2 | 4.4% | 0 | 0.0% |
| - Foot and ankle orthopaedics | 15 | 13 | 86.7% | 2 | 13.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 151 | 141 | 93.4% | 1 | 0.7% | 8 | 5.3% | 1 | 0.7% | 0 | 0.0% |
| - Musculoskeletal oncology | 18 | 17 | 94.4% | 0 | 0.0% | 0 | 0.0% | 1 | 5.6% | 0 | 0.0% |
| - Orthopaedic sports medicine | 216 | 171 | 79.2% | 14 | 6.5% | 24 | 11.1% | 7 | 3.2% | 0 | 0.0% |
| - Orthopaedic surgery of the spine | 27 | 20 | 74.1% | 2 | 7.4% | 5 | 18.5% | 0 | 0.0% | 0 | 0.0% |
| - Orthopaedic trauma | 20 | 13 | 65.0% | 3 | 15.0% | 1 | 5.0% | 3 | 15.0% | 0 | 0.0% |
| - Pediatric orthopaedics | 38 | 26 | 68.4% | 6 | 15.8% | 4 | 10.5% | 2 | 5.3% | 0 | 0.0% |
| Osteopathic neuromusculoskeletal medicine | 34 | 2 | 5.9% | 0 | 0.0% | 32 | 94.1% | 0 | 0.0% | 0 | 0.0% |
| Otolaryngology - head and neck surgery | 331 | 306 | 92.4% | 1 | 0.3% | 24 | 7.3% | 0 | 0.0% | 0 | 0.0% |
| - Neurotology | 16 | 14 | 87.5% | 2 | 12.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric otolaryngology | 37 | 31 | 83.8% | 1 | 2.7% | 3 | 8.1% | 2 | 5.4% | 0 | 0.0% |
| Pathology-anatomic and clinical | 594 | 279 | 47.0% | 261 | 43.9% | 53 | 8.9% | 1 | 0.2% | 0 | 0.0% |
| - Blood banking/transfusion medicine | 50 | 25 | 50.0% | 21 | 42.0% | 4 | 8.0% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 6 | 4 | 66.7% | 2 | 33.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Chemical pathology | 2 | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Cytopathology | 129 | 41 | 31.8% | 78 | 60.5% | 10 | 7.8% | 0 | 0.0% | 0 | 0.0% |
| - Forensic pathology | 54 | 27 | 50.0% | 15 | 27.8% | 12 | 22.2% | 0 | 0.0% | 0 | 0.0% |
| - Hematopathology | 131 | 61 | 46.6% | 59 | 45.0% | 11 | 8.4% | 0 | 0.0% | 0 | 0.0% |
| - Medical microbiology | 9 | 7 | 77.8% | 2 | 22.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Neuropathology | 26 | 16 | 61.5% | 7 | 26.9% | 2 | 7.7% | 1 | 3.8% | 0 | 0.0% |
| - Pediatric pathology | 24 | 8 | 33.3% | 12 | 50.0% | 3 | 12.5% | 1 | 4.2% | 0 | 0.0% |
| - Selective pathology | 171 | 68 | 39.8% | 94 | 55.0% | 8 | 4.7% | 1 | 0.6% | 0 | 0.0% |
| Pediatrics | 2,997 | 2,006 | 66.9% | 564 | 18.8% | 425 | 14.2% | 2 | 0.1% | 0 | 0.0% |
| - Adolescent medicine | 33 | 23 | 69.7% | 7 | 21.2% | 3 | 9.1% | 0 | 0.0% | 0 | 0.0% |
| - Child abuse pediatrics | 12 | 8 | 66.7% | 2 | 16.7% | 2 | 16.7% | 0 | 0.0% | 0 | 0.0% |
| - Clinical informatics | 7 | 6 | 85.7% | 1 | 14.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Developmental-behavioral pediatrics | 30 | 18 | 60.0% | 7 | 23.3% | 5 | 16.7% | 0 | 0.0% | 0 | 0.0% |
| - Neonatal-perinatal medicine | 247 | 145 | 58.7% | 65 | 26.3% | 37 | 15.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric cardiology | 144 | 110 | 76.4% | 25 | 17.4% | 7 | 4.9% | 2 | 1.4% | 0 | 0.0% |
| - Pediatric critical care medicine | 186 | 126 | 67.7% | 45 | 24.2% | 15 | 8.1% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric emergency medicine | 144 | 101 | 70.1% | 28 | 19.4% | 15 | 10.4% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric endocrinology | 76 | 43 | 56.6% | 27 | 35.5% | 6 | 7.9% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric gastroenterology | 101 | 61 | 60.4% | 28 | 27.7% | 12 | 11.9% | 0 | 0.0% | 0 | 0.0% |

Table D.6 Continued

Addiction psychiatry

Forensic psychiatry

- Geriatric psychiatry

Radiation oncology

Neuroradiology

Surgery

Hand surgery

Pediatric surgery

Vascular surgery

Thoracic surgery

Pediatric urology

Transitional year

Surgical critical care

Vascular surgery - integrated

- Congenital cardiac surgery

Thoracic surgery - integrated

Internal medicine/Pediatrics

Nuclear radiology

- Pediatric radiology

Radiology-diagnostic

Abdominal radiology

Musculoskeletal radiology

- Child and adolescent psychiatry

- Consultation-liaison psychiatry

- Endovascular surgical neuroradiology

Interventional radiology - independent

Interventional radiology - integrated

- Complex general surgical oncology

| | Total | Accre | CME - edited l School | Intern Medica | | | pathic l School | | adian l School | | ledical Unknown |
|--|-----------|-------|-----------------------------|------------------|-------|-----|--------------------|---|-------------------|---|--------------------|
| Specialty | Graduates | # | % | # | % | # | % | # | % | # | % |
| - Pediatric hematology/oncology | 162 | 115 | 71.0% | 29 | 17.9% | 18 | 11.1% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric infectious diseases | 65 | 42 | 64.6% | 19 | 29.2% | 4 | 6.2% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric nephrology | 37 | 21 | 56.8% | 12 | 32.4% | 4 | 10.8% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric pulmonology | 49 | 22 | 44.9% | 18 | 36.7% | 9 | 18.4% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric rheumatology | 34 | 24 | 70.6% | 7 | 20.6% | 3 | 8.8% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 25 | 15 | 60.0% | 6 | 24.0% | 4 | 16.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric transplant hepatology | 10 | 5 | 50.0% | 5 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric hospital medicine | 38 | 30 | 78.9% | 5 | 13.2% | 3 | 7.9% | 0 | 0.0% | 0 | 0.0% |
| Physical medicine and rehabilitation | 426 | 239 | 56.1% | 54 | 12.7% | 133 | 31.2% | 0 | 0.0% | 0 | 0.0% |
| - Brain injury medicine | 17 | 8 | 47.1% | 3 | 17.6% | 6 | 35.3% | 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 | 22 | 11 | 50.0% | 2 | 9.1% | 9 | 40.9% | 0 | 0.0% | 0 | 0.0% |
| - Pediatric rehabilitation medicine | 19 | 9 | 47.4% | 2 | 10.5% | 8 | 42.1% | 0 | 0.0% | 0 | 0.0% |
| - Sports medicine | 32 | 17 | 53.1% | 4 | 12.5% | 11 | 34.4% | 0 | 0.0% | 0 | 0.0% |
| Plastic surgery | 76 | 60 | 78.9% | 10 | 13.2% | 6 | 7.9% | 0 | 0.0% | 0 | 0.0% |
| Plastic surgery - integrated | 137 | 127 | 92.7% | 10 | 7.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Craniofacial surgery | 5 | 5 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Hand surgery | 22 | 19 | 86.4% | 0 | 0.0% | 0 | 0.0% | 3 | 13.6% | 0 | 0.0% |
| Preventive medicine | 179 | 119 | 66.5% | 28 | 15.6% | 30 | 16.8% | 2 | 1.1% | 0 | 0.0% |
| - Medical toxicology | 2 | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| - Undersea and hyperbaric medicine | 1 | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Psychiatry | 1,312 | 764 | 58.2% | 319 | 24.3% | 228 | 17.4% | 1 | 0.1% | 0 | 0.0% |
| - Addiction medicine (multidisciplinary) | 81 | 52 | 64.2% | 14 | 17.3% | 13 | 16.0% | 2 | 2.5% | 0 | 0.0% |
| | | | | | | | | | | | |

78

434

82

45

91

193

46

4

35

282

13

57

0

25

56

8

40

293

125

54

97

9

22

330

17

19

1,588

377

1,381

1,093

45

224

59

13

60

188

761

17

29

202

3

27

0

23

993

44

5

38

214

90

45

75

7

19

16

16

992

330

284

4

57.7%

51.6%

72.0%

28.9%

65.9%

97.4%

69.6%

37.0%

100.0%

82.9%

71.6%

23.1%

47.4%

0.0%

92.0%

71.9%

78.6%

62.5%

95.0%

73.0%

72.0%

83.3%

77.3%

77.8%

86.4%

86.1%

94.1%

84.2%

62.5%

87.5%

30

136

17

26

26

0

193

99

0

4

55

9

20

0

1

199

11

1

2

33

23

6

17

2

2

19

1

1

159

24

38.5%

31.3%

20.7%

57.8%

28.6%

0.0%

17.7%

47.8%

0.0%

11.4%

19.5%

69.2%

35.1%

0.0%

4.0%

14.4%

19.6%

12.5%

5.0%

11.3%

18.4%

11.1%

17.5%

22.2%

9.1%

5.8%

5.9%

5.3%

10.0%

6.4%

3

73

6

6

4

5

4

0

9

20

1

10

0

1

0

2

0

45

10

3

4

0

1

27

0

2

437

22

189

138

3.8%

16.8%

7.3%

13.3%

4.4%

2.6%

12.6%

8.7%

0.0%

5.7%

7.1%

7.7%

17.5%

0.0%

4.0%

13.7%

0.0%

25.0%

0.0%

15.4%

8.0%

5.6%

4.1%

0.0%

4.5%

8.2%

0.0%

10.5%

27.5%

5.8%

Number of Graduating Residents by Specialty and Subspecialty and Medical School Type, 2019-2020 AY

Note: Pipeline specialties are highlighted.

Female pelvic medicine and reconstructive surgery

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

0

1

0

0

1

0

1

3

0

0

5

0

0

0

0

0

1

0

0

2

0

1

0

0

0

0

0

0

0.0%

0.2%

0.0%

0.0%

1.1%

0.0%

0.1%

6.5%

0.0%

0.0%

1.8%

0.0%

0.0%

0.0%

0.0%

0.0%

1.8%

0.0%

0.0%

0.3%

1.6%

0.0%

1.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.3%

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

MS

MO

MT

NE

NV

NH

NJ

NM

NY

NC

ND

OH

OK

OR

PA

PR

RI

SC

SD

ΤN

TX

UT

VT

VA

WA

WV

WI

TABLE D.7

Mississippi

Missouri

Montana

Nebraska

New Jersey

New York

Oklahoma

Pennsylvania

Puerto Rico

Rhode Island

South Dakota

Tennessee

Texas

Utah

Vermont

Virginia

Washington

Wisconsin

Wyoming

West Virginia

South Carolina

Oregon

Ohio

New Mexico

North Carolina

North Dakota

New Hampshire

Nevada

| State Name State Abbreviation | | State Population - Census Estimate 2020 | Total Graduates | Percent of All Graduates | Graduates per 100,000 Pop 13.95 | |
|-------------------------------|----------------------|--|------------------------|--------------------------|---------------------------------------|--|
| OVERALL | VERALL - 332,643,466 | | 46,401 | 100.0% | | |
| Alabama | AL | 4,921,532 | 496 | 1.1% | 10.08 | |
| Alaska | AK | 731,158 | 13 | 0.0% | 1.78 | |
| Arizona | AZ | 7,421,401 | 601 | 1.3% | 8.10 | |
| Arkansas | AR | 3,030,522 | 292 | 0.6% | 9.64 | |
| California | CA | 39,368,078 | 4,211 | 9.1% | 10.70 | |
| Colorado | CO | 5,807,719 | 545 | 1.2% | 9.38 | |
| Connecticut | CT | 3,557,006 | 788 | 1.7% | 22.15 | |
| Delaware | DE | 986,809 | 114 | 0.2% | 11.55 | |
| District of Columbia | DC | 712,816 | 513 | 1.1% | 71.97 | |
| Florida | FL | 21,733,312 | 2,239 | 4.8% | 10.30 | |
| Georgia | GA | 10,710,017 | 951 | 2.0% | 8.88 | |
| Hawaii | HI | 1,407,006 | 147 | 0.3% | 10.45 | |
| Idaho | ID | 1,826,913 | 40 | 0.1% | 2.19 | |
| Illinois | IL | 12,587,530 | 2,150 | 4.6% | 17.08 | |
| Indiana | IN | 6,754,953 | 513 | 1.1% | 7.59 | |
| Iowa | IA | 3,163,561 | 312 | 0.7% | 9.86 | |
| Kansas | KS | 2,913,805 | 254 | 0.5% | 8.72 | |
| Kentucky | KY | 4,477,251 | 444 | 1.0% | 9.92 | |
| Louisiana | LA | 4,645,318 | 639 | 1.4% | 13.76 | |
| Maine | ME | 1,350,141 | 112 | 0.2% | 8.30 | |
| Maryland | MD | 6,055,802 | 1,146 | 2.5% | 18.92 | |
| Massachusetts | MA | 6,893,574 | 2,057 | 4.4% | 29.84 | |
| Michigan | MI | 9,966,555 | 2,386 | 5.1% | 23.94 | |
| Minnesota | MN | 5,657,342 | 830 | 1.8% | 14.67 | |

247

995

256

229

140

214

1,205

5,875

1,237

2,379

354

350

322

265

498

52

839

281

91

901

758

279

692

14

3,053

2,995

58

29

0.5%

2.1%

0.1%

0.6%

0.5%

0.3%

2.6%

0.5%

12.7%

2.7%

0.1%

5.1%

0.8%

0.8%

6.5%

0.7%

0.6%

1.1%

0.1%

1.8%

6.6%

0.6%

0.2%

1.9%

1.6%

0.6%

1.5%

0.0%

8.33

16.17

13.21

2.68

7.30

10.25

13.57

10.16

30.38

11.67

7.58

20.35

8.89

8.25

23.43

10.19

25.07

9.54

5.82

12.18

10.40

8.65

14.60

10.49

9.85

15.63

11.86

2.40

2,966,786

6,151,548

1,080,577

1,937,552

3,138,259

1,366,275

8,882,371

2,106,319

19,336,776

10,600,823

11,693,217

3,980,783

4,241,507

12,783,254

3,159,343

1,057,125

5,218,040

6,886,834

29,360,759

3,249,879

8,590,563

7,693,612

1,784,787

5,832,655

582,328

623,347

892,717

765,309

Number of Graduating Residents and Graduate Concentration per 100,000 Population by State, 2019-2020 AY

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, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021.

Abbreviations: AY, academic year.

TABLE D.8 Number of Specialty Graduates and Specialty Graduate Concentration per 100,000 Population by State, 2019-2020 AY

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Specialty Graduates | Percent of All Specialty Graduates | Specialty Graduates per 100,000 Pop 9.99 | |
|----------------------|--------------------|--|----------------------------------|---------------------------------------|--|--|
| OVERALL | - | 332,643,466 | 33,242 | 100.0% | | |
| Alabama | AL | 4,921,532 | 360 | 1.1% | 7.31 | |
| Alaska | AK | 731,158 | 11 | 0.0% | 1.50 | |
| Arizona | AZ | 7,421,401 | 446 | 1.3% | 6.01 | |
| Arkansas | AR | 3,030,522 | 235 | 0.7% | 7.75 | |
| California | CA | 39,368,078 | 2,898 | 8.7% | 7.36 | |
| Colorado | CO | 5,807,719 | 371 | 1.1% | 6.39 | |
| Connecticut | CT | 3,557,006 | 544 | 1.6% | 15.29 | |
| Delaware | DE | 986,809 | 87 | 0.3% | 8.82 | |
| District of Columbia | DC | 712,816 | 337 | 1.0% | 47.28 | |
| Florida | FL | 21,733,312 | 1,712 | 5.2% | 7.88 | |
| Georgia | GA | 10,710,017 | 714 | 2.1% | 6.67 | |
| Hawaii | HI | 1,407,006 | 129 | 0.4% | 9.17 | |
| Idaho | ID | 1,826,913 | 38 | 0.1% | 2.08 | |
| Illinois | IL | 12,587,530 | 1,623 | 4.9% | 12.89 | |
| Indiana | IN | 6,754,953 | 401 | 1.2% | 5.94 | |
| Iowa | IA | 3,163,561 | 227 | 0.7% | 7.18 | |
| Kansas | KS | 2,913,805 | 192 | 0.6% | 6.59 | |
| Kentucky | KY | 4,477,251 | 323 | 1.0% | 7.21 | |
| Louisiana | LA | 4,645,318 | 493 | 1.5% | 10.61 | |
| Maine | ME | 1,350,141 | 96 | 0.3% | 7.11 | |
| Maryland | MD | 6,055,802 | 714 | 2.1% | 11.79 | |
| Massachusetts | MA | 6,893,574 | 1,258 | 3.8% | 18.25 | |
| Michigan | MI | 9,966,555 | 1,894 | 5.7% | 19.00 | |
| Minnesota | MN | 5,657,342 | 517 | 1.6% | 9.14 | |
| Mississippi | MS | 2,966,786 | 191 | 0.6% | 6.44 | |
| Missouri | MO | 6,151,548 | 674 | 2.0% | 10.96 | |
| Montana | MT | 1,080,577 | 29 | 0.1% | 2.68 | |
| Nebraska | NE NE | 1,937,552 | 192 | 0.6% | 9.91 | |
| Nevada | NV | 3,138,259 | 199 | 0.6% | 6.34 | |
| New Hampshire | NH | 1,366,275 | 90 | 0.3% | 6.59 | |
| New Jersey | NJ | 8,882,371 | 984 | 3.0% | 11.08 | |
| New Mexico | NM | 2,106,319 | 147 | 0.4% | 6.98 | |
| New York | NY | 19,336,776 | 4,199 | 12.6% | 21.72 | |
| North Carolina | NC | 10,600,823 | 820 | 2.5% | 7.74 | |
| North Dakota | ND | 765,309 | 55 | 0.2% | 7.74 | |
| Ohio | OH | 11,693,217 | 1,662 | 5.0% | 14.21 | |
| Oklahoma | OK | 3,980,783 | 291 | 0.9% | 7.31 | |
| Oregon | OR | 4,241,507 | 246 | 0.7% | 5.80 | |
| Pennsylvania | PA | | 2,054 | 6.2% | 16.07 | |
| Puerto Rico | PR | 12,783,254 | 269 | 0.2% | 8.51 | |
| Rhode Island | RI | 3,159,343 1,057,125 | 180 | 0.5% | 17.03 | |
| | | | | | | |
| South Carolina | SC | 5,218,040 | 372 | 1.1% | 7.13 | |
| South Dakota | SD | 892,717 | 48 | 0.1% | 5.38 | |
| Tennessee | TN TX | 6,886,834 | 578 2,107 | 1.7% 6.3% | 8.39 7.18 | |
| Texas | UT | 29,360,759 3,249,879 | 182 | | | |
| Utah Vormant | | | | 0.5% | 5.60 | |
| Vermont | VT | 623,347 | 65 | 0.2% | 10.43 | |
| Virginia | VA | 8,590,563 | 687 | 2.1% | 8.00 | |
| Washington | WA | 7,693,612 | 539 | 1.6% | 7.01 | |
| West Virginia | WV | 1,784,787 | 241 | 0.7% | 13.50 | |
| Wisconsin | WI | 5,832,655 | 507 | 1.5% | 8.69 | |

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, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/ datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021. Abbreviations: AY, academic year.

TABLE D.9

Number of Subspecialty Graduates and Subspecialty Graduate Concentration per 100,000 Population by State, 2019-2020 AY

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Subspecialty Graduates | Percent of All Subspecialty Graduates | Subspecialty Graduates per 100,000 Pop |
|----------------------|--------------------|--|---------------------------------|--|---|
| OVERALL | - | 332,643,466 | 13,159 | 100.0% | 3.96 |
| Alabama | AL | 4,921,532 | 136 | 1.0% | 2.76 |
| Alaska | AK | 731,158 | 2 | 0.0% | 0.27 |
| Arizona | AZ | 7,421,401 | 155 | 1.2% | 2.09 |
| Arkansas | AR | 3,030,522 | 57 | 0.4% | 1.88 |
| California | CA | 39,368,078 | 1,313 | 10.0% | 3.34 |
| Colorado | CO | 5,807,719 | 174 | 1.3% | 3.00 |
| Connecticut | CT | 3,557,006 | 244 | 1.9% | 6.86 |
| Delaware | DE | 986,809 | 27 | 0.2% | 2.74 |
| District of Columbia | DC | 712,816 | 176 | 1.3% | 24.69 |
| Florida | FL | 21,733,312 | 527 | 4.0% | 2.42 |
| Georgia | GA | 10,710,017 | 237 | 1.8% | 2.21 |
| Hawaii | HI | 1,407,006 | 18 | 0.1% | 1.28 |
| Idaho | ID | 1,826,913 | 2 | 0.0% | 0.11 |
| Illinois | IL | 12,587,530 | 527 | 4.0% | 4.19 |
| Indiana | IN | 6,754,953 | 112 | 0.9% | 1.66 |
| Iowa | IA | 3,163,561 | 85 | 0.6% | 2.69 |
| Kansas | KS | 2,913,805 | 62 | 0.5% | 2.13 |
| Kentucky | KY | | 121 | 0.9% | 2.70 |
| Louisiana | | 4,477,251 | 146 | 1.1% | 3.14 |
| | LA | 4,645,318 | | | |
| Maine | ME | 1,350,141 | 16 | 0.1% | 1.19 |
| Maryland | MD | 6,055,802 | 432 | 3.3% | 7.13 |
| Massachusetts | MA | 6,893,574 | 799 | 6.1% | 11.59 |
| Michigan | MI | 9,966,555 | 492 | 3.7% | 4.94 |
| Minnesota | MN | 5,657,342 | 313 | 2.4% | 5.53 |
| Mississippi | MS | 2,966,786 | 56 | 0.4% | 1.89 |
| Missouri | MO | 6,151,548 | 321 | 2.4% | 5.22 |
| Montana | МТ | 1,080,577 | 0 | 0.0% | 0.00 |
| Nebraska | NE | 1,937,552 | 64 | 0.5% | 3.30 |
| Nevada | NV | 3,138,259 | 30 | 0.2% | 0.96 |
| New Hampshire | NH | 1,366,275 | 50 | 0.4% | 3.66 |
| New Jersey | NJ | 8,882,371 | 221 | 1.7% | 2.49 |
| New Mexico | NM | 2,106,319 | 67 | 0.5% | 3.18 |
| New York | NY | 19,336,776 | 1,676 | 12.7% | 8.67 |
| North Carolina | NC | 10,600,823 | 417 | 3.2% | 3.93 |
| North Dakota | ND | 765,309 | 3 | 0.0% | 0.39 |
| Ohio | ОН | 11,693,217 | 717 | 5.4% | 6.13 |
| Oklahoma | OK | 3,980,783 | 63 | 0.5% | 1.58 |
| Oregon | OR | 4,241,507 | 104 | 0.8% | 2.45 |
| Pennsylvania | PA | 12,783,254 | 941 | 7.2% | 7.36 |
| Puerto Rico | PR | 3,159,343 | 53 | 0.4% | 1.68 |
| Rhode Island | RI | 1,057,125 | 85 | 0.6% | 8.04 |
| South Carolina | SC | 5,218,040 | 126 | 1.0% | 2.41 |
| South Dakota | SD | 892,717 | 4 | 0.0% | 0.45 |
| Tennessee | TN | 6,886,834 | 261 | 2.0% | 3.79 |
| Texas | TX | 29,360,759 | 946 | 7.2% | 3.22 |
| Utah | UT | 3,249,879 | 99 | 0.8% | 3.05 |
| Vermont | VT | 623,347 | 26 | 0.2% | 4.17 |
| Virginia | VA | 8,590,563 | 214 | 1.6% | 2.49 |
| Washington | WA | 7,693,612 | 219 | 1.7% | 2.85 |
| West Virginia | WV | 1,784,787 | 38 | 0.3% | 2.13 |
| Wisconsin | WI | 5,832,655 | 185 | 1.4% | 3.17 |
| Wyoming | WY | 582,328 | 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, and Puerto Rico: April 1, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/ $datasets/2010-2020/counties/totals/co-est2020-alldata.csv.\ Published\ May, 2021.\ Accessed\ June\ 24,\ 2021.$ Abbreviations: AY, academic year.

Table D.10

Number of Pipeline Graduates and Pipeline Graduate Concentration per 100,000 Population by State, 2019-2020 AY

| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Pipeline Graduates | Percent of All Pipeline Graduates | Pipeline Graduates per 100,000 Pop |
|------------------------|--------------------|--|--------------------------|--------------------------------------|---------------------------------------|
| OVERALL | - | 332,643,466 | 31,295 | 100.0% | 9.41 |
| Alabama | AL | 4,921,532 | 336 | 1.1% | 6.83 |
| Alaska | AK | 731,158 | 11 | 0.0% | 1.50 |
| Arizona | AZ | 7,421,401 | 422 | 1.3% | 5.69 |
| Arkansas | AR | 3,030,522 | 223 | 0.7% | 7.36 |
| California | CA | 39,368,078 | 2,753 | 8.8% | 6.99 |
| Colorado | CO | 5,807,719 | 353 | 1.1% | 6.08 |
| Connecticut | CT | 3,557,006 | 534 | 1.7% | 15.01 |
| Delaware | DE | 986,809 | 80 | 0.3% | 8.11 |
| District of Columbia | DC | 712,816 | 336 | 1.1% | 47.14 |
| Florida | FL | 21,733,312 | 1,526 | 4.9% | 7.02 |
| Georgia | GA | 10,710,017 | 620 | 2.0% | 5.79 |
| Hawaii | HI | 1,407,006 | 115 | 0.4% | 8.17 |
| Idaho | ID | 1,826,913 | 38 | 0.1% | 2.08 |
| Illinois | IL | 12,587,530 | 1,540 | 4.9% | 12.23 |
| Indiana | IN | 6,754,953 | 355 | 1.1% | 5.26 |
| Iowa | IA | 3,163,561 | 218 | 0.7% | 6.89 |
| Kansas | KS | 2,913,805 | 190 | 0.6% | 6.52 |
| Kentucky | KY | 4,477,251 | 308 | 1.0% | 6.88 |
| Louisiana | LA | 4,645,318 | 483 | 1.5% | 10.40 |
| Maine | ME | 1,350,141 | 96 | 0.3% | 7.11 |
| Maryland | MD | 6,055,802 | 664 | 2.1% | 10.96 |
| Massachusetts | MA | 6,893,574 | 1,185 | 3.8% | 17.19 |
| Michigan | MI | 9,966,555 | 1,707 | 5.5% | 17.13 |
| Minnesota | MN | 5,657,342 | 486 | 1.6% | 8.59 |
| Mississippi | MS | 2,966,786 | 177 | 0.6% | 5.97 |
| Missouri | MO | 6,151,548 | 653 | 2.1% | 10.62 |
| Montana | MT | 1,080,577 | 29 | 0.1% | 2.68 |
| Nebraska | NE | 1,937,552 | 191 | 0.6% | 9.86 |
| Nevada | NV | 3,138,259 | 173 | 0.6% | 5.51 |
| New Hampshire | NH | 1,366,275 | 90 | 0.3% | 6.59 |
| New Jersey | NJ | 8,882,371 | 925 | 3.0% | 10.41 |
| New Mexico | NM | 2,106,319 | 141 | 0.5% | 6.69 |
| New York | NY | 19,336,776 | 4,023 | 12.9% | 20.80 |
| North Carolina | NC | 10,600,823 | 788 | 2.5% | 7.43 |
| North Dakota | ND | 765,309 | 47 | 0.2% | 6.14 |
| Ohio | ОН | 11,693,217 | 1,577 | 5.0% | 13.49 |
| Oklahoma | OK | 3,980,783 | 285 | 0.9% | 7.16 |
| Oregon | OR | 4,241,507 | 244 | 0.8% | 5.75 |
| Pennsylvania | PA | 12,783,254 | 1,931 | 6.2% | 15.11 |
| Puerto Rico | PR | 3,159,343 | 230 | 0.7% | 7.28 |
| Rhode Island | RI | 1,057,125 | 178 | 0.6% | 16.84 |
| South Carolina | SC | 5,218,040 | 347 | 1.1% | 6.65 |
| South Dakota | SD | 892,717 | 42 | 0.1% | 4.70 |
| Tennessee | TN | 6,886,834 | 565 | 1.8% | 8.20 |
| Texas | TX | 29,360,759 | 2,009 | 6.4% | 6.84 |
| Utah | UT | 3,249,879 | 168 | 0.5% | 5.17 |
| | VT | 623,347 | 65 | 0.5% | |
| Vermont | V I VA | | 641 | 2.0% | 10.43 7.46 |
| Virginia Washington | <u> </u> | 8,590,563 | | | |
| Washington | WA | 7,693,612 | 493 | 1.6% | 6.41 |
| West Virginia | WV | 1,784,787 | 227 | 0.7% | 12.72 |
| Wisconsin | WI WY | 5,832,655 582,328 | 463 14 | 1.5% 0.0% | 7.94 2.40 |

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, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/ datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021. Abbreviations: AY, academic year.

TABLE D.11

| | | | | 1 | Medical School Type | e | |
|----------------------|--------------------|-----------------|--|---------------------------------|-------------------------------|----------------------------|------------------------------|
| State Name | State Abbreviation | Total Graduates | US LCME- Accredited Medical School | International Medical School | Osteopathic Medical School | Canadian Medical School | US Medical School Unknown |
| OVERALL | - | 46,401 | 27,091 | 11,514 | 7,707 | 88 | 1 |
| Alabama | AL | 496 | 342 | 100 | 54 | 0 | 0 |
| Alaska | AK | 13 | 12 | 0 | 1 | 0 | 0 |
| Arizona | AZ | 601 | 363 | 102 | 136 | 0 | 0 |
| Arkansas | AR | 292 | 162 | 93 | 37 | 0 | 0 |
| California | CA | 4,211 | 3,178 | 523 | 498 | 11 | 1 |
| Colorado | CO | 545 | 425 | 22 | 98 | 0 | 0 |
| Connecticut | CT | 788 | 392 | 315 | 81 | 0 | 0 |
| Delaware | DE | 114 | 62 | 16 | 36 | 0 | 0 |
| District of Columbia | DC | 513 | 312 | 169 | 32 | 0 | 0 |
| Florida | FL | 2,239 | 1,027 | 665 | 545 | 2 | 0 |
| Georgia | GA | 951 | 583 | 249 | 118 | 1 | 0 |
| Hawaii | HI | 147 | 85 | 33 | 27 | 2 | 0 |
| Idaho | ID | 40 | 22 | 1 | 17 | 0 | 0 |
| Illinois | IL | 2,150 | 1,239 | 562 | 343 | 6 | 0 |
| Indiana | IN | 513 | 331 | 89 | 93 | 0 | 0 |
| Iowa | IA | 312 | 178 | 67 | 67 | 0 | 0 |
| Kansas | KS | 254 | 150 | 59 | 45 | 0 | 0 |
| Kentucky | KY | 444 | 251 | 90 | 103 | 0 | 0 |
| Louisiana | LA | 639 | 395 | 203 | 41 | 0 | 0 |
| Maine | ME | 112 | 49 | 20 | 42 | 1 | 0 |
| Maryland | MD | 1,146 | 780 | 249 | 114 | 3 | 0 |
| Massachusetts | MA | 2,057 | 1,458 | 485 | 97 | 17 | 0 |
| Michigan | MI | 2,386 | 975 | 687 | 723 | 1 | 0 |
| Minnesota | MN | 830 | 589 | 160 | 78 | 3 | 0 |
| Mississippi | MS | 247 | 125 | 49 | 73 | 0 | 0 |
| Missouri | MO | 995 | 633 | 221 | 140 | 1 | 0 |
| Montana | MT | 29 | 15 | 5 | 9 | 0 | 0 |
| Nebraska | NE | 256 | 129 | 86 | 41 | 0 | 0 |
| Nevada | NV | 229 | 85 | 71 | 72 | 1 | 0 |
| New Hampshire | NH | 140 | 93 | 36 | 11 | 0 | 0 |
| New Jersey | NJ | 1,205 | 268 | 556 | 381 | 0 | 0 |
| New Mexico | NM | 214 | 123 | 51 | 40 | 0 | 0 |
| New York | NY | 5,875 | 2,779 | 2,350 | 729 | 17 | 0 |
| North Carolina | NC | 1,237 | 896 | 145 | 194 | 2 | 0 |
| North Dakota | ND | 58 | 27 | 27 | 4 | 0 | 0 |
| Ohio | ОН | 2,379 | 1,249 | 555 | 570 | 5 | 0 |
| Oklahoma | OK | 354 | 140 | 64 | 149 | 1 | 0 |
| Oregon | OR | 350 | 259 | 23 | 67 | 1 | 0 |
| Pennsylvania | PA | 2,995 | 1,638 | 715 | 639 | 3 | 0 |
| Puerto Rico | PR | 322 | 201 | 121 | 0 | 0 | 0 |
| Rhode Island | RI | 265 | 175 | 64 | 25 | 1 | 0 |
| South Carolina | SC | 498 | 347 | 63 | 88 | 0 | 0 |
| South Dakota | SD | 52 | 27 | 15 | 10 | 0 | 0 |
| Tennessee | TN | 839 | 558 | 175 | 104 | 2 | 0 |
| Texas | TX | 3,053 | 1,938 | 688 | 424 | 3 | 0 |
| Utah | UT | 281 | 230 | 23 | 28 | 0 | 0 |
| Vermont | VT | 91 | 64 | 19 | 8 | 0 | 0 |
| Virginia | VA | 901 | 558 | 159 | 183 | 1 | 0 |
| Washington | WA | 758 | 575 | 61 | 119 | 3 | 0 |
| West Virginia | WV | 279 | 119 | 88 | 72 | 0 | 0 |
| Wisconsin | WI | 692 | 478 | 123 | 91 | 0 | 0 |
| Wyoming | WY | 14 | 2 | 2 | 10 | 0 | 0 |

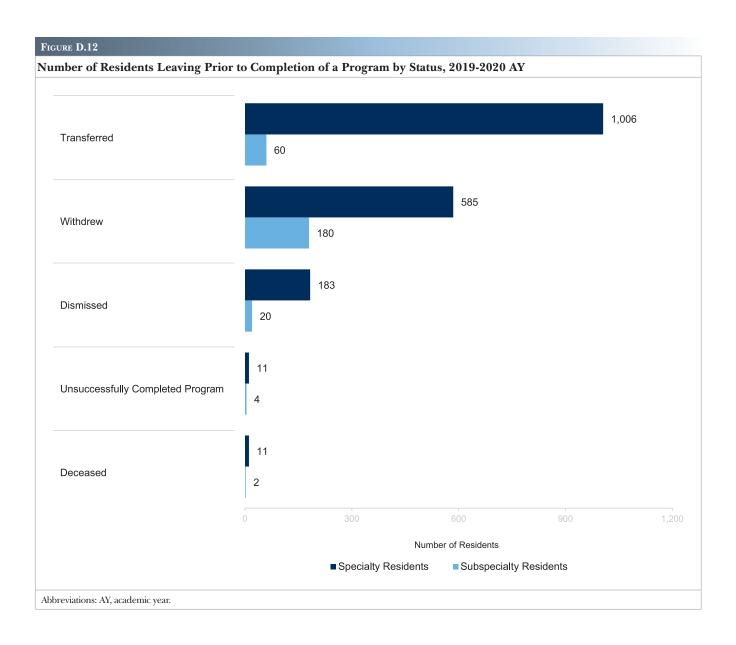


TABLE D.13

Number of Residents Leaving Prior to Completion of a Program by Specialty and Subspecialty and Status, 2019-2020 AY

| | | | | Resident Status | | |
|---|--|-------------|----------|-----------------|--|---------------|
| Specialty | Number of Residents Not Graduating | Transferred | Withdrew | Dismissed | Unsuccessfully Completed Program | Deceased |
| OVERALL | 2,062 | 1,066 | 765 | 203 | 15 | 13 |
| TOTAL PIPELINE | 1,774 | 997 | 576 | 180 | 10 | 11 |
| Allergy and immunology | 4 | 2 | 2 | 0 | 0 | 0 |
| Anesthesiology | 70 | 19 | 34 | 16 | 0 | 1 |
| - Adult cardiothoracic anesthesiology | 2 | 0 | 2 | 0 | 0 | 0 |
| - Clinical informatics | 0 | 0 | 0 | 0 | 0 | 0 |
| - Critical care medicine | 2 | 1 | 1 | 0 | 0 | 0 |
| - Regional anesthesiology and acute pain medicine | 0 | 0 | 0 | 0 | 0 | 0 |
| - Obstetric anesthesiology | 1 | 0 | 0 | 0 | 1 | 0 |
| - Pain medicine (multidisciplinary) | 3 | 0 | 2 | 1 | 0 | 0 |
| - Pediatric anesthesiology | 4 | 0 | 3 | 1 | 0 | 0 |
| Colon and rectal surgery | 0 | 0 | 0 | 0 | 0 | 0 |
| Dermatology | 3 | 2 | 1 | 0 | 0 | 0 |
| - Dermatopathology (multidisciplinary) | 1 | 0 | 0 | 1 | 0 | 0 |
| - Micrographic surgery and dermatologic oncology | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency medicine | 46 | 26 | 16 | 3 | 1 | 0 |
| - Clinical informatics | 1 | 0 | 1 | 0 | 0 | 0 |
| - Emergency medical services | 0 | 0 | 0 | 0 | 0 | 0 |
| - Medical toxicology | 0 | 0 | 0 | 0 | 0 | 0 |
| - Pediatric emergency medicine | 1 | 1 | 0 | 0 | 0 | 0 |
| - Sports medicine | 0 | 0 | 0 | 0 | 0 | 0 |
| - Undersea and hyperbaric medicine | 0 | 0 | 0 | 0 | 0 | 0 |
| | 230 | 94 | 93 | 41 | 1 | 1 |
| Family medicine - Clinical informatics | 0 | 0 | 0 | 0 | 0 | 0 |
| - Geriatric medicine | 2 | 0 | 2 | 0 | 0 | |
| | 7 | - | 7 | - | - | 0 |
| - Hospice and palliative medicine (multidisciplinary) | 3 | 0 | 2 | 0 | 0 | 0 |
| - Sports medicine Internal medicine | 222 | 91 | 92 | 29 | 7 | <u>0</u> 3 |
| | 0 | | | 0 | 0 | 0 |
| - Adult congenital heart disease | | 0 | 0 | | | |
| - Advanced heart failure and transplant cardiology | 1 | 1 | 0 | 0 | 0 | 0 |
| - Cardiovascular disease | 12 | 3 | 7 | 1 | 0 | 1 |
| - Clinical cardiac electrophysiology | 4 | 2 | 1 | 1 | 0 | 0 |
| - Clinical informatics | 1 | 0 | 1 | 0 | 0 | 0 |
| - Critical care medicine | 5 | 4 | 1 | 0 | 0 | 0 |
| - Endocrinology, diabetes, and metabolism | 8 | 1 | 7 | 0 | 0 | 0 |
| - Gastroenterology | 6 | 1 | 4 | 1 | 0 | 0 |
| - Geriatric medicine | 6 | 0 | 6 | 0 | 0 | 0 |
| - Hematology | 0 | 0 | 0 | 0 | 0 | 0 |
| - Hematology and medical oncology | 9 | 4 | 5 | 0 | 0 | 0 |
| - Infectious disease | 13 | 1 | 11 | 1 | 0 | 0 |
| - Interventional cardiology | 2 | 0 | 2 | 0 | 0 | 0 |
| - Nephrology | 20 | 6 | 10 | 4 | 0 | 0 |
| - Medical oncology | 1 | 0 | 1 | 0 | 0 | 0 |
| - Pulmonary disease | 0 | 0 | 0 | 0 | 0 | 0 |
| - Pulmonary disease and critical care medicine | 11 | 2 | 7 | 1 | 0 | 1 |
| - Rheumatology | 3 | 1 | 2 | 0 | 0 | 0 |
| - Sleep medicine (multidisciplinary) | 3 | 0 | 2 | 1 | 0 | 0 |
| - Transplant hepatology | 0 | 0 | 0 | 0 | 0 | 0 |
| Medical genetics and genomics | 0 | 0 | 0 | 0 | 0 | 0 |
| - Medical biochemical genetics | 0 | 0 | 0 | 0 | 0 | 0 |
| - Molecular genetic pathology (multidisciplinary) | 0 | 0 | 0 | 0 | 0 | 0 |
| Neurological surgery | 16 | 5 | 7 | 4 | 0 | 0 |
| - Endovascular surgical neuroradiology | 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, 2019-2020 AY

| | | Resident Status | | | | | |
|---|--|-----------------|----------|-----------|--|----------|--|
| Specialty | Number of Residents Not Graduating | Transferred | Withdrew | Dismissed | Unsuccessfully Completed Program | Deceased | |
| Neurology | 39 | 14 | 15 | 10 | 0 | 0 | |
| - Brain injury medicine | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Clinical neurophysiology | 2 | 0 | 2 | 0 | 0 | 0 | |
| - Epilepsy | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Endovascular surgical neuroradiology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Neurodevelopmental disabilities | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Neuromuscular medicine | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Vascular neurology | 3 | 0 | 2 | 1 | 0 | 0 | |
| Child neurology | 4 | 2 | 1 | 1 | 0 | 0 | |
| Nuclear medicine | 8 | 6 | 2 | 0 | 0 | 0 | |
| Obstetrics and gynecology | 99 | 43 | 52 | 4 | 0 | 0 | |
| - Female pelvic medicine and reconstructive surgery | 1 | 1 | 0 | 0 | 0 | 0 | |
| - Gynecologic oncology | 3 | 0 | 3 | 0 | 0 | 0 | |
| - Maternal-fetal medicine | 2 | 0 | 1 | 1 | 0 | 0 | |
| - Reproductive endocrinology and infertility | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Complex family planning | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ophthalmology | 8 | 1 | 7 | 0 | 0 | 0 | |
| - Ophthalmic plastic and reconstructive surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| Orthopaedic surgery | 29 | 9 | 16 | 4 | 0 | 0 | |
| - Adult reconstructive orthopaedics | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Foot and ankle orthopaedics | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Hand surgery | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Musculoskeletal oncology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Orthopaedic sports medicine | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Orthopaedic surgery of the spine | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Orthopaedic trauma | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric orthopaedics | 1 | 0 | 1 | 0 | 0 | 0 | |
| Osteopathic neuromusculoskeletal medicine | 3 | 1 | 2 | 0 | 0 | 0 | |
| Otolaryngology - head and neck surgery | 10 | 1 | 7 | 2 | 0 | 0 | |
| - Neurotology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric otolaryngology | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pathology-anatomic and clinical | 51 | 24 | 24 | 2 | 0 | 1 | |
| - Blood banking/transfusion medicine | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Clinical informatics | 1 | 1 | 0 | 0 | 0 | 0 | |
| - Chemical pathology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Cytopathology | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Forensic pathology | 4 | 0 | 4 | 0 | 0 | 0 | |
| - Hematopathology | 5 | 0 | 3 | 1 | 1 | 0 | |
| - Medical microbiology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Neuropathology | 1 | 1 | 0 | 0 | 0 | 0 | |
| - Pediatric pathology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Selective pathology | 2 | 1 | 1 | 0 | 0 | 0 | |
| Pediatrics | 88 | 49 | 26 | 12 | 0 | 1 | |
| - Adolescent medicine | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Child abuse pediatrics | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Clinical informatics | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Developmental-behavioral pediatrics | 2 | 1 | 1 | 0 | 0 | 0 | |
| - Neonatal-perinatal medicine | 9 | 6 | 3 | 0 | 0 | 0 | |
| - Pediatric cardiology | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Pediatric critical care medicine | 6 | 2 | 4 | 0 | 0 | 0 | |
| - Pediatric emergency medicine | 2 | 0 | 2 | 0 | 0 | 0 | |
| - Pediatric endocrinology | 8 | 3 | 5 | 0 | 0 | 0 | |
| - Pediatric gastroenterology | 1 | 0 | 1 | 0 | 0 | 0 | |

Table D.13 Continued

Number of Residents Leaving Prior to Completion of a Program by Specialty and Subspecialty and Status, 2019-2020 AY

| | | | | Resident Status | | | |
|---|--|-------------|----------|-----------------|--|----------|--|
| Specialty | Number of Residents Not Graduating | Transferred | Withdrew | Dismissed | Unsuccessfully Completed Program | Deceased | |
| - Pediatric hematology/oncology | 6 | 1 | 5 | 0 | 0 | 0 | |
| - Pediatric infectious diseases | 8 | 2 | 6 | 0 | 0 | 0 | |
| - Pediatric nephrology | 2 | 1 | 1 | 0 | 0 | 0 | |
| - Pediatric pulmonology | 2 | 1 | 1 | 0 | 0 | 0 | |
| - Pediatric rheumatology | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Sports medicine | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric transplant hepatology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric hospital medicine | 3 | 3 | 0 | 0 | 0 | 0 | |
| Physical medicine and rehabilitation | 14 | 10 | 3 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Sports medicine | 0 | 0 | 0 | 0 | 0 | 0 | |
| Plastic surgery | 2 | 1 | 0 | 1 | 0 | 0 | |
| Plastic surgery - integrated | 15 | 3 | 11 | 1 | 0 | 0 | |
| - Craniofacial surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Hand surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| Preventive medicine | 8 | 0 | 5 | 3 | 0 | 0 | |
| - Medical toxicology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Undersea and hyperbaric medicine | 0 | 0 | 0 | 0 | 0 | 0 | |
| Psychiatry | 403 | 366 | 23 | 13 | 1 | 0 | |
| - Addiction medicine (multidisciplinary) | 4 | 0 | 3 | 1 | 0 | 0 | |
| - Addiction psychiatry | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Child and adolescent psychiatry | 27 | 6 | 21 | 0 | 0 | 0 | |
| - Forensic psychiatry | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Geriatric psychiatry | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Consultation-liaison psychiatry | 3 | 1 | 2 | 0 | 0 | 0 | |
| Radiation oncology | 5 | 3 | 2 | 0 | 0 | 0 | |
| Radiology-diagnostic | 103 | 86 | 11 | 5 | 0 | 1 | |
| - Abdominal radiology | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Endovascular surgical neuroradiology | 1 | 0 | 0 | 0 | 1 | 0 | |
| - Musculoskeletal radiology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Neuroradiology | 2 | 0 | 2 | 0 | 0 | 0 | |
| - Nuclear radiology | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric radiology | 3 | 0 | 2 | 0 | 1 | 0 | |
| Interventional radiology - independent | 0 | 0 | 0 | 0 | 0 | 0 | |
| Interventional radiology - integrated | 10 | 9 | 0 | 1 | 0 | 0 | |
| Surgery | 251 | 117 | 108 | 24 | 0 | 2 | |
| - Complex general surgical oncology | 1 | 0 | 1 | 0 | 0 | 0 | |
| - Hand surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Surgical critical care | 2 | 0 | 2 | 0 | 0 | 0 | |
| - Surgical crucal care - Vascular surgery | 7 | 1 | 4 | 2 | 0 | 0 | |
| - vascular surgery Vascular surgery - integrated | 5 | 1 | 4 | 0 | 0 | 0 | |
| Thoracic surgery Thoracic surgery | 8 | 0 | 6 | 1 | 1 | 0 | |
| - Congenital cardiac surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 0 / | - | 0 | - | | - | | |
| Thoracic surgery - integrated | 6 | | 5 | 1 | 0 | 0 | |
| Urology | 12 | 3 | 6 | 2 | 0 | 1 | |
| - Female pelvic medicine and reconstructive surgery | 0 | 0 | 0 | 0 | 0 | 0 | |
| - Pediatric urology | 0 | 0 | 0 | 0 | 0 | 0 | |
| Transitional year | 10 | 7 | 1 | 2 | 0 | 0 | |
| Internal medicine/Pediatrics | 14 | 11 | 3 | 0 | 0 | 0 | |

Note: Pipeline specialties are highlighted.

Abbreviations: AY, academic year.

| Number of Transferring Residents by S | Specialty and F | Resident | Year, 2019 |)-2020 AY | | | | |
|---|------------------------|---------------|------------|-----------|----|---|---|---|
| | Number of | Resident Year | | | | | | |
| Specialty | Transferring Residents | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| OVERALL | 1,006 | 358 | 203 | 394 | 50 | 1 | | |
| Allergy and immunology | 2 | 2 | | | | | | |
| Anesthesiology | 19 | 6 | 8 | 5 | | | | |
| Colon and rectal surgery | 0 | | | | | | | |
| Dermatology | 2 | 2 | | | | | | |
| Emergency medicine | 26 | 21 | 5 | | | | | |
| Family medicine | 94 | 68 | 24 | 2 | | | | |
| Internal medicine | 91 | 68 | 23 | | | | | |
| Medical genetics and genomics | 0 | | | | | | | |
| Neurological surgery | 5 | 2 | 1 | 1 | 1 | | | |
| Neurology | 14 | 7 | 6 | 1 | | | | |
| Child neurology | 2 | 1 | 1 | | | | | |
| Nuclear medicine | 6 | 3 | 3 | | | | | |
| Obstetrics and gynecology | 43 | 24 | 13 | 4 | 2 | | | |
| Ophthalmology | 1 | | 1 | | | | | |
| Orthopaedic surgery | 9 | 4 | 3 | 2 | | | | |
| Osteopathic neuromusculoskeletal medicine | 1 | 1 | | | | | | |
| Otolaryngology - head and neck surgery | 1 | | | | 1 | | | |
| Pathology-anatomic and clinical | 24 | 7 | 10 | 6 | 1 | | | |
| Pediatrics | 49 | 25 | 21 | 3 | | | | |
| Physical medicine and rehabilitation | 10 | 4 | 6 | | | | | |
| Plastic surgery | 1 | 1 | | | | | | |
| Plastic Surgery - integrated | 3 | | 1 | 2 | | | | |
| Preventive medicine | 0 | | | | | | | |
| Psychiatry | 366 | 17 | 20 | 311 | 18 | | | |
| Radiation oncology | 3 | 2 | 1 | | | | | |
| Radiology-diagnostic | 86 | 31 | 17 | 22 | 16 | | | |
| Interventional radiology - integrated | 9 | 3 | 1 | 1 | 4 | | | |
| Surgery | 117 | 45 | 34 | 31 | 6 | 1 | | |
| Vascular surgery - integrated | 1 | 1 | <u> </u> | | | | | |
| Thoracic surgery | 0 | - | | | | | | |
| Thoracic surgery - integrated | 0 | | | | | | | |
| Urology Urology | 3 | 1 | | 1 | 1 | | | |
| Transitional year | 7 | 7 | | _ | - | | | |
| Internal medicine/Pediatrics | 11 | 5 | 4 | 2 | | | | |

| Number of Pipeline Graduates who Subs | specialize, 2019-2020 AY | | | |
|---|--------------------------|----------------|-------|--|
| | | Subspecialized | | |
| Specialty | Total Pipeline Graduates | # | % | |
| TOTAL PIPELINE | 31,295 | 9,516 | 30.4% | |
| Anesthesiology | 1,728 | 830 | 48.0% | |
| Dermatology | 514 | 81 | 15.8% | |
| Emergency medicine | 2,455 | 234 | 9.5% | |
| Family medicine | 4,364 | 411 | 9.4% | |
| Internal medicine | 8,779 | 3,480 | 39.6% | |
| Medical genetics and genomics | 25 | 11 | 44.0% | |
| Neurological surgery | 193 | 2 | 1.0% | |
| Neurology | 806 | 409 | 50.7% | |
| Child neurology | 127 | 56 | 44.1% | |
| Nuclear medicine | 39 | 2 | 5.1% | |
| Obstetrics and gynecology | 1,361 | 288 | 21.2% | |
| Ophthalmology | 501 | 3 | 0.6% | |
| Orthopaedic surgery | 842 | 429 | 51.0% | |
| Osteopathic neuromusculoskeletal medicine | 34 | 0 | 0.0% | |
| Otolaryngology - head and neck surgery | 331 | 42 | 12.7% | |
| Pathology-anatomic and clinical | 594 | 404 | 68.0% | |
| Pediatrics | 2,997 | 1,125 | 37.5% | |
| Physical medicine and rehabilitation | 426 | 174 | 40.8% | |
| Plastic surgery | 76 | 11 | 14.5% | |
| Plastic Surgery - integrated | 137 | 32 | 23.4% | |
| Preventive medicine | 179 | 11 | 6.1% | |
| Psychiatry | 1,312 | 390 | 29.7% | |
| Radiation oncology | 193 | 1 | 0.5% | |
| Radiology-diagnostic | 1,093 | 328 | 30.0% | |
| Interventional radiology - integrated | 25 | 1 | 4.0% | |
| Surgery | 1,381 | 618 | 44.8% | |
| Vascular surgery - integrated | 54 | 1 | 1.9% | |
| Thoracic surgery - integrated | 22 | 6 | 27.3% | |
| Urology | 330 | 20 | 6.1% | |
| Internal medicine/Pediatrics | 377 | 116 | 30.8% | |

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 2020-2021 academic year.

Accredited Sponsors by Status

Of the 862 total ACGME-accredited Sponsoring Institutions, 138 (16.0%) are in the initial phase of accreditation, 701 (81.3%) have a status of Continued Accreditation, 12 (1.4%) have a status of Continued Accreditation with Warning, five (0.6%) are on probation, and six (0.7%) have a status of Withdrawal of Accreditation. Overall, there has been a 25.5% increase in number of sponsors since the 2012-2013 academic year (at that time the total number of Sponsoring Institutions was 687). 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, has 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 (26.9% and 28.0%, respectively). The remaining Sponsoring Institutions with accredited programs all have more than five programs: 21.2% have between six and 25 programs; 11.3% have between 26 and 75 programs; 3.4% have between 76 and 100 programs; and 1.7% have more than 100 programs. There are 65 (7.5%) Sponsoring Institutions that currently do not have any 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 (101)
- New York (69)
- Florida (54)
- Texas (51)

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

- California (56)
- New York (49)
- Florida (34)
- Ohio (34)

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

- California (38)
- Florida (16)
- New York (15)
- Texas (12)

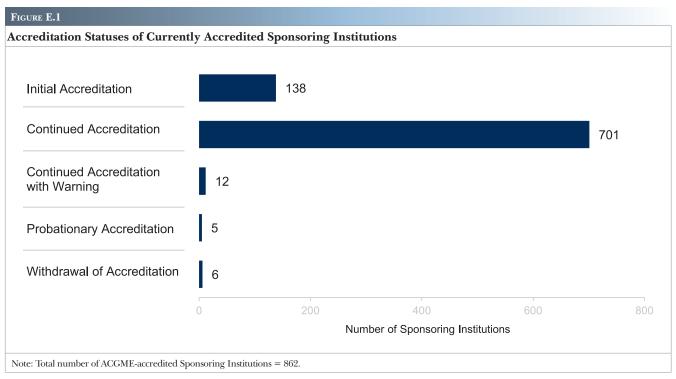
Sponsors that do not yet have ACGME-accredited programs (65) are located in 31 states, with the highest number of these located in California and New Jersey, with seven recorded in each.

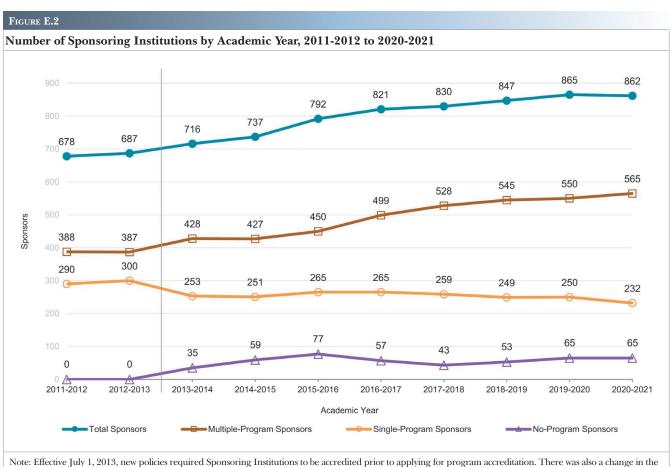
Distribution by Institution Type

The type of institution is self-reported by Sponsoring Institutions. Approximately half of Sponsoring Institutions with ACGME-accredited programs are General/Teaching Hospitals (351, 44.0%); the next largest group is Academic Medical Centers/Medical Schools, with 124 (15.6%) in this category. Though a much smaller percentage of total Sponsoring Institutions, Academic Medical Centers/ Medical Schools account for 25.9% more programs than General/Teaching Hospitals; however, these have almost the same number of residents.

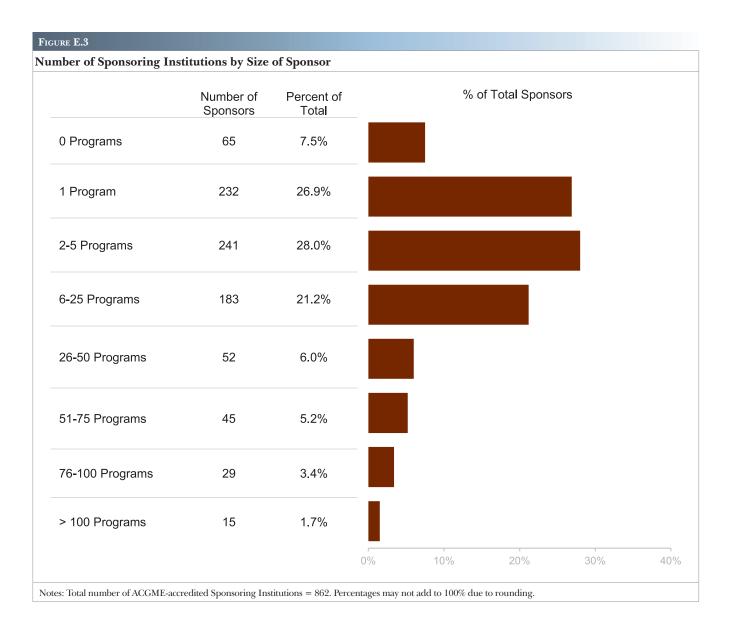
DIO Changes

Each year between 10% and 16% of Sponsoring Institutions have 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 2020-2021 academic year, 100 (12.7%) Sponsoring Institutions had a single DIO change, and 12 (1.5%) had more than one DIO change. \wedge





definitions of single-program and multi-program sponsors at that time. The trends in the 2013-2014 academic year and beyond reflect these changes.



| | | State Population - Census | | | Sponsors per 100,000 | |
|----------------------|--------------------|---------------------------|-----------------------|-------------------------|----------------------|--|
| State Name | State Abbreviation | Estimate 2020 | Total Sponsors | Percent of All Sponsors | Pop | |
| OVERALL | - | 332,643,466 | 862 | 100.0% | 0.26 | |
| Alabama | AL | 4,921,532 | 19 | 2.2% | 0.39 | |
| Alaska | AK | 731,158 | 1 | 0.1% | 0.14 | |
| Arizona | AZ | 7,421,401 | 13 | 1.5% | 0.18 | |
| Arkansas | AR | 3,030,522 | 9 | 1.0% | 0.30 | |
| California | CA | 39,368,078 | 101 | 11.7% | 0.26 | |
| Colorado | CO | 5,807,719 | 13 | 1.5% | 0.22 | |
| Connecticut | CT | 3,557,006 | 15 | 1.7% | 0.42 | |
| Delaware | DE | 986,809 | 5 | 0.6% | 0.51 | |
| District of Columbia | DC | 712,816 | 5 | 0.6% | 0.70 | |
| Florida | FL | 21,733,312 | 54 | 6.3% | 0.25 | |
| Georgia | GA | 10,710,017 | 28 | 3.2% | 0.26 | |
| Hawaii | HI | 1,407,006 | 4 | 0.5% | 0.28 | |
| Idaho | ID | 1,826,913 | 5 | 0.6% | 0.27 | |
| Illinois | IL | 12,587,530 | 30 | 3.5% | 0.24 | |
| Indiana | IN | 6,754,953 | 13 | 1.5% | 0.19 | |
| Iowa | IA | 3,163,561 | 9 | 1.0% | 0.28 | |
| Kansas | KS | 2,913,805 | 2 | 0.2% | 0.07 | |
| Kentucky | KY | 4,477,251 | 7 | 0.8% | 0.16 | |
| Louisiana | LA | 4,645,318 | 11 | 1.3% | 0.24 | |
| Maine | ME | 1,350,141 | 4 | 0.5% | 0.30 | |
| Maryland | MD | 6,055,802 | 16 | 1.9% | 0.26 | |
| | | | | | | |
| Massachusetts | MA | 6,893,574 | 26 | 3.0% | 0.38 | |
| Michigan | MI | 9,966,555 | 40 | 4.6% | 0.40 | |
| Minnesota | MN | 5,657,342 | 10 | 1.2% | 0.18 | |
| Mississippi | MS | 2,966,786 | 12 | 1.4% | 0.40 | |
| Missouri | MO | 6,151,548 | 14 | 1.6% | 0.23 | |
| Montana | MT | 1,080,577 | 3 | 0.3% | 0.28 | |
| Nebraska | NE | 1,937,552 | 4 | 0.5% | 0.21 | |
| Nevada | NV | 3,138,259 | 7 | 0.8% | 0.22 | |
| New Hampshire | NH | 1,366,275 | 4 | 0.5% | 0.29 | |
| New Jersey | NJ | 8,882,371 | 27 | 3.1% | 0.30 | |
| New Mexico | NM | 2,106,319 | 7 | 0.8% | 0.33 | |
| New York | NY | 19,336,776 | 69 | 8.0% | 0.36 | |
| North Carolina | NC | 10,600,823 | 17 | 2.0% | 0.16 | |
| North Dakota | ND | 765,309 | 2 | 0.2% | 0.26 | |
| Ohio | ОН | 11,693,217 | 42 | 4.9% | 0.36 | |
| Oklahoma | OK | 3,980,783 | 8 | 0.9% | 0.20 | |
| Oregon | OR | 4,241,507 | 5 | 0.6% | 0.12 | |
| Pennsylvania | PA | 12,783,254 | 40 | 4.6% | 0.31 | |
| Puerto Rico | PR | 3,159,343 | 12 | 1.4% | 0.38 | |
| Rhode Island | RI | 1,057,125 | 5 | 0.6% | 0.47 | |
| South Carolina | SC | 5,218,040 | 11 | 1.3% | 0.21 | |
| South Dakota | SD | 892,717 | 3 | 0.3% | 0.34 | |
| Tennessee | TN | 6,886,834 | 10 | 1.2% | 0.15 | |
| Гехаѕ | TX | 29,360,759 | 51 | 5.9% | 0.17 | |
| Utah | UT | 3,249,879 | 6 | 0.7% | 0.18 | |
| Vermont | VT | 623,347 | 1 | 0.1% | 0.16 | |
| Virginia | VA | 8,590,563 | 19 | 2.2% | 0.22 | |
| Washington | WA | 7,693,612 | 23 | 2.7% | 0.30 | |
| West Virginia | WV | 1,784,787 | 10 | 1.2% | 0.56 | |
| Wisconsin | WI | 5,832,655 | 9 | 1.0% | 0.15 | |
| Wyoming | WY | 582,328 | 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, and Puerto Rico: April 1, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021.

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 2020 | Total Multiple-Program Sponsors | Percent of All Multiple- Program Sponsors | Multiple-Program Sponsors per 100,000 Pop |
|----------------------|--------------------|--|------------------------------------|--|--|
| OVERALL | - | 332,643,466 | 565 | 100.0% | 0.17 |
| Alabama | AL | 4,921,532 | 8 | 1.4% | 0.16 |
| Alaska | AK | 731,158 | 1 | 0.2% | 0.14 |
| Arizona | AZ | 7,421,401 | 9 | 1.6% | 0.12 |
| Arkansas | AR | 3,030,522 | 6 | 1.1% | 0.20 |
| California | CA | 39,368,078 | 56 | 9.9% | 0.14 |
| Colorado | CO | 5,807,719 | 8 | 1.4% | 0.14 |
| Connecticut | CT | 3,557,006 | 12 | 2.1% | 0.34 |
| Delaware | DE | 986,809 | 2 | 0.4% | 0.20 |
| District of Columbia | DC | 712,816 | 4 | 0.7% | 0.56 |
| Florida | FL | 21,733,312 | 34 | 6.0% | 0.16 |
| Georgia | GA | 10,710,017 | 15 | 2.7% | 0.14 |
| Hawaii | HI | 1,407,006 | 2 | 0.4% | 0.14 |
| Idaho | ID | 1,826,913 | 3 | 0.5% | 0.16 |
| Illinois | IL | 12,587,530 | 21 | 3.7% | 0.17 |
| Indiana | IN | 6,754,953 | 8 | 1.4% | 0.12 |
| Iowa | IA | 3,163,561 | 5 | 0.9% | 0.16 |
| Kansas | KS | 2,913,805 | 2 | 0.4% | 0.07 |
| Kentucky | KY | 4,477,251 | 4 | 0.7% | 0.09 |
| Louisiana | LA | 4,645,318 | 6 | 1.1% | 0.13 |
| Maine | ME | 1,350,141 | 3 | 0.5% | 0.22 |
| Maryland | MD | 6,055,802 | 12 | 2.1% | 0.20 |
| Massachusetts | MA | 6,893,574 | 18 | 3.2% | 0.26 |
| Michigan | MI | 9,966,555 | 33 | 5.8% | 0.33 |
| Minnesota | MN | 5,657,342 | 5 | 0.9% | 0.09 |
| Mississippi | MS | 2,966,786 | 5 | 0.9% | 0.17 |
| Missouri | MO | 6,151,548 | 9 | 1.6% | 0.15 |
| Montana | MT | 1,080,577 | 1 | 0.2% | 0.09 |
| Nebraska | NE | 1,937,552 | 2 | 0.4% | 0.10 |
| Nevada | NV | 3,138,259 | 4 | 0.7% | 0.13 |
| New Hampshire | NH | 1,366,275 | 2 | 0.4% | 0.15 |
| New Jersey | NJ | 8,882,371 | 17 | 3.0% | 0.19 |
| New Mexico | NM | 2,106,319 | 3 | 0.5% | 0.14 |
| New York | NY | 19,336,776 | 49 | 8.7% | 0.25 |
| North Carolina | NC | 10,600,823 | 13 | 2.3% | 0.12 |
| North Dakota | ND | 765,309 | 2 | 0.4% | 0.26 |
| Ohio | ОН | 11,693,217 | 34 | 6.0% | 0.29 |
| Oklahoma | OK | 3,980,783 | 6 | 1.1% | 0.15 |
| Oregon | OR | 4,241,507 | 4 | 0.7% | 0.09 |
| Pennsylvania | PA | 12,783,254 | 31 | 5.5% | 0.24 |
| Puerto Rico | PR | 3,159,343 | 8 | 1.4% | 0.25 |
| Rhode Island | RI | 1,057,125 | 5 | 0.9% | 0.47 |
| South Carolina | SC | 5,218,040 | 7 | 1.2% | 0.13 |
| South Dakota | SD | 892,717 | 2 | 0.4% | 0.22 |
| Tennessee | TN | 6,886,834 | 8 | 1.4% | 0.12 |
| Texas | TX | 29,360,759 | 33 | 5.8% | 0.11 |
| Utah | UT | 3,249,879 | 3 | 0.5% | 0.09 |
| Vermont | VT | 623,347 | 1 | 0.2% | 0.16 |
| Virginia | VA | 8,590,563 | 13 | 2.3% | 0.15 |
| Washington | WA | 7,693,612 | 12 | 2.1% | 0.15 |
| West Virginia | WV | 1,784,787 | 5 | 0.9% | 0.16 |
| Wisconsin | WI | 5,832,655 | 8 | 1.4% | 0.28 |
| Wyoming | WY | 5,832,633 | 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, and Puerto Rico: April 1, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/ datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021.

TABLE E.6

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

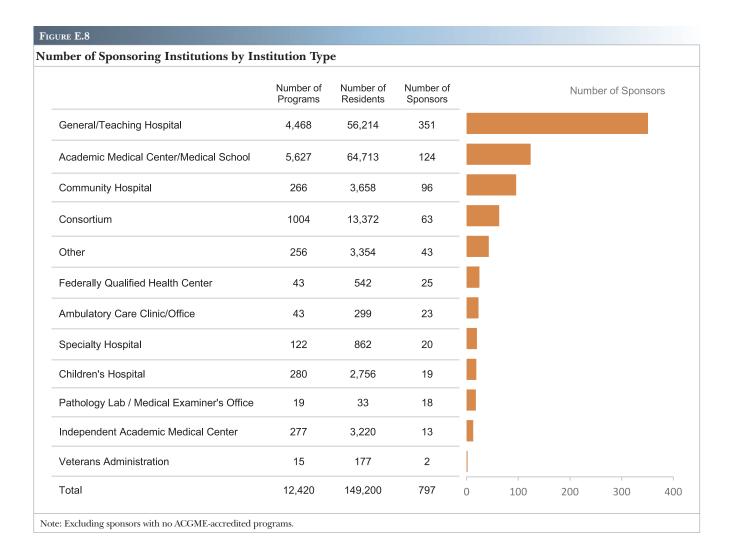
| State Name | State Abbreviation | State Population - Census Estimate 2020 | Total Single-Program Sponsors | Percent of All Sponsors | Single-Program Sponsors per 100,000 Pop |
|----------------------|--------------------|--|----------------------------------|-------------------------|--|
| OVERALL | - | 332,643,466 | 232 | 100.0% | 0.07 |
| Alabama | AL | 4,921,532 | 9 | 3.9% | 0.18 |
| Alaska | AK | 731,158 | 0 | 0.0% | 0.00 |
| Arizona | AZ | 7,421,401 | 1 | 0.4% | 0.01 |
| Arkansas | AR | 3,030,522 | 3 | 1.3% | 0.10 |
| California | CA | 39,368,078 | 38 | 16.4% | 0.10 |
| Colorado | CO | 5,807,719 | 4 | 1.7% | 0.07 |
| Connecticut | CT | 3,557,006 | 3 | 1.3% | 0.08 |
| Delaware | DE | 986,809 | 2 | 0.9% | 0.20 |
| District of Columbia | DC | 712,816 | 0 | 0.0% | 0.00 |
| Florida | FL | 21,733,312 | 16 | 6.9% | 0.07 |
| Georgia | GA | 10,710,017 | 10 | 4.3% | 0.09 |
| Hawaii | HI | 1,407,006 | 2 | 0.9% | 0.14 |
| Idaho | ID | 1,826,913 | 1 | 0.4% | 0.05 |
| Illinois | IL | 12,587,530 | 7 | 3.0% | 0.06 |
| Indiana | IN | 6,754,953 | 4 | 1.7% | 0.06 |
| Iowa | IA | 3,163,561 | 3 | 1.3% | 0.09 |
| Kansas | KS | 2,913,805 | 0 | 0.0% | 0.00 |
| Kentucky | KY | 4,477,251 | 2 | 0.9% | 0.04 |
| Louisiana | LA | 4,645,318 | 3 | 1.3% | 0.06 |
| Maine | ME | 1,350,141 | 1 | 0.4% | 0.07 |
| Maryland | MD | 6,055,802 | 3 | 1.3% | 0.05 |
| Massachusetts | MA | 6,893,574 | 8 | 3.4% | 0.12 |
| Michigan | MI | 9,966,555 | 6 | 2.6% | 0.06 |
| Minnesota | MN | 5,657,342 | 4 | 1.7% | 0.07 |
| Mississippi | MS | 2,966,786 | 6 | 2.6% | 0.20 |
| Missouri | MO | 6,151,548 | 5 | 2.2% | 0.08 |
| Montana | MT | 1,080,577 | 2 | 0.9% | 0.19 |
| Nebraska | NE | 1,937,552 | 2 | 0.9% | 0.10 |
| Nevada | NV | 3,138,259 | 2 | 0.9% | 0.06 |
| New Hampshire | NH | 1,366,275 | 1 | 0.4% | 0.07 |
| New Jersey | NJ | 8,882,371 | 3 | 1.3% | 0.07 |
| New Mexico | NM | 2,106,319 | 3 | 1.3% | 0.14 |
| New York | NY | 19,336,776 | <u>5</u> 15 | 6.5% | 0.08 |
| North Carolina | NC | 19,530,770 | 4 | 1.7% | 0.08 |
| North Dakota | ND | 765,309 | 0 | 0.0% | 0.00 |
| Ohio | OH | | 7 | 3.0% | |
| | OK | 11,693,217 | 2 | | 0.06 |
| Oklahoma | | 3,980,783 | | 0.9% | 0.05 |
| Oregon | OR | 4,241,507 | 0 7 | 0.0% | 0.00 |
| Pennsylvania | PA | 12,783,254 | | 3.0% | 0.05 |
| Puerto Rico | PR | 3,159,343 | 4 | 1.7% | 0.13 |
| Rhode Island | RI | 1,057,125 | 0 | 0.0% | 0.00 |
| South Carolina | SC | 5,218,040 | 2 | 0.9% | 0.04 |
| South Dakota | SD | 892,717 | 1 | 0.4% | 0.11 |
| Tennessee | TN | 6,886,834 | 1 | 0.4% | 0.01 |
| Texas | TX | 29,360,759 | 12 | 5.2% | 0.04 |
| Utah | UT | 3,249,879 | 2 | 0.9% | 0.06 |
| Vermont | VT | 623,347 | 0 | 0.0% | 0.00 |
| Virginia | VA | 8,590,563 | 4 | 1.7% | 0.05 |
| Washington | WA | 7,693,612 | 11 | 4.7% | 0.14 |
| West Virginia | WV | 1,784,787 | 5 | 2.2% | 0.28 |
| Wisconsin | WI | 5,832,655 | 1 | 0.4% | 0.02 |
| Wyoming | WY | 582,328 | 0 | 0.0% | 0.00 |

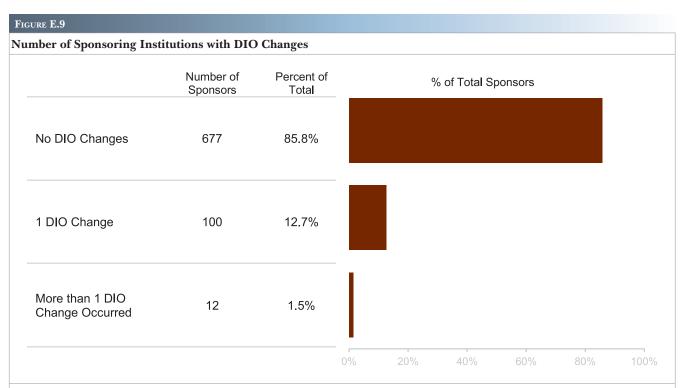
Source: U.S. Census Bureau, Population Division. Annual Population Estimates, Estimated Components of Resident Population Change, and Rates of the Components of Resident Population Change for the United States, States, and Puerto Rico: April 1, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/ datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021.

TABLE E.7 Number of No-Program Sponsoring Institutions and No-Program Sponsoring Institution Concentration per 100,000 Population by State

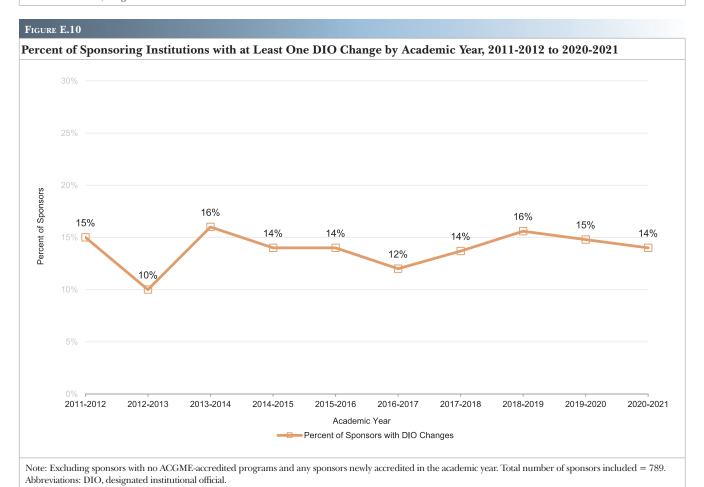
| State Name | State Abbreviation | State Population - Census Estimate 2020 | No-Program Sponsors | Percent of All No- Program Sponsors | No-Program Sponsors per 100,000 Pop |
|----------------------------|--------------------|--|---------------------|--|--|
| OVERALL | - | 332,643,466 | 65 | 100.0% | 0.02 |
| Alabama | AL | 4,921,532 | 2 | 3.1% | 0.04 |
| Alaska | AK | 731,158 | 0 | 0.0% | 0.00 |
| Arizona | AZ | 7,421,401 | 3 | 4.6% | 0.04 |
| Arkansas | AR | 3,030,522 | 0 | 0.0% | 0.00 |
| California | CA | 39,368,078 | 7 | 10.8% | 0.02 |
| Colorado | CO | 5,807,719 | 1 | 1.5% | 0.02 |
| Connecticut | CT | 3,557,006 | 0 | 0.0% | 0.00 |
| Delaware | DE | 986,809 | 1 | 1.5% | 0.10 |
| District of Columbia | DC | 712,816 | 1 | 1.5% | 0.14 |
| Florida | FL | 21,733,312 | 4 | 6.2% | 0.02 |
| Georgia | GA | 10,710,017 | 3 | 4.6% | 0.03 |
| Hawaii | HI | 1,407,006 | 0 | 0.0% | 0.00 |
| Idaho | ID | 1,826,913 | 1 | 1.5% | 0.05 |
| Illinois | IL | 12,587,530 | 2 | 3.1% | 0.02 |
| Indiana | IN | 6,754,953 | 1 | 1.5% | 0.01 |
| Iowa | IA | 3,163,561 | 1 | 1.5% | 0.03 |
| Kansas | KS | 2,913,805 | 0 | 0.0% | 0.00 |
| Kentucky | KY | 4,477,251 | 1 | 1.5% | 0.02 |
| Louisiana | LA | 4,645,318 | 2 | 3.1% | 0.04 |
| Maine | ME | 1,350,141 | 0 | 0.0% | 0.00 |
| Maryland | MD | 6,055,802 | 1 | 1.5% | 0.02 |
| Massachusetts | MA | 6,893,574 | 0 | 0.0% | 0.00 |
| Michigan | MI | 9,966,555 | 1 | 1.5% | 0.01 |
| Minnesota | MN | 5,657,342 | 1 | 1.5% | 0.02 |
| Mississippi | MS | 2,966,786 | 1 | 1.5% | 0.03 |
| Missouri | MO | 6,151,548 | 0 | 0.0% | 0.00 |
| Montana | MT | 1,080,577 | 0 | 0.0% | 0.00 |
| Nebraska | NE NE | 1,937,552 | 0 | 0.0% | 0.00 |
| Nevada | NV | 3,138,259 | 1 | 1.5% | 0.03 |
| | NH | | 1 | 1.5% | 0.03 |
| New Hampshire | NJ | 1,366,275 | 7 | 10.8% | 0.07 |
| New Jersey New Mexico | | 8,882,371 2,106,319 | 1 | | |
| | NM | | 5 | 1.5% | 0.05 |
| New York North Carolina | NY | 19,336,776 | 0 | 7.7% | |
| | NC | 10,600,823 | | 0.0% | 0.00 |
| North Dakota | ND | 765,309 | 0 | 0.0% | 0.00 |
| Ohio | OH | 11,693,217 | 1 | 1.5% | 0.01 |
| Oklahoma | OK | 3,980,783 | 0 | 0.0% | 0.00 |
| Oregon | OR | 4,241,507 | 1 | 1.5% | 0.02 |
| Pennsylvania | PA | 12,783,254 | 2 | 3.1% | 0.02 |
| Puerto Rico | PR | 3,159,343 | 0 | 0.0% | 0.00 |
| Rhode Island | RI | 1,057,125 | 0 | 0.0% | 0.00 |
| South Carolina | SC | 5,218,040 | 2 | 3.1% | 0.04 |
| South Dakota | SD | 892,717 | 0 | 0.0% | 0.00 |
| Tennessee | TN | 6,886,834 | 1 | 1.5% | 0.01 |
| Texas | TX | 29,360,759 | 6 | 9.2% | 0.02 |
| Utah | UT | 3,249,879 | 1 | 1.5% | 0.03 |
| Vermont | VT | 623,347 | 0 | 0.0% | 0.00 |
| Virginia | VA | 8,590,563 | 2 | 3.1% | 0.02 |
| Washington | WA | 7,693,612 | 0 | 0.0% | 0.00 |
| West Virginia | WV | 1,784,787 | 0 | 0.0% | 0.00 |
| Wisconsin | WI | 5,832,655 | 0 | 0.0% | 0.00 |
| Wyoming | WY | 582,328 | 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, and Puerto Rico: April 1, 2010 to July 1, 2020. https://www2.census.gov/programs-surveys/popest/datasets/2010-2020/counties/totals/co-est2020-alldata.csv. Published May, 2021. Accessed June 24, 2021.





Notes: Excluding sponsors with no ACGME-accredited programs and any sponsors newly accredited in the 2020-2021 academic year. Total number of sponsors included = 789. Percentages may not add to 100% due to rounding. Abbreviations: DIO, designated institutional official.



Sponsoring Institutions

Participating Sites

This section includes information and trends on the number of unique participating sites to 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 was a total of 8,165 unique participating sites to which residents rotated during the 2020-2021 academic year. The highest number of sites were in the following categories:

- Ambulatory Care Clinic/Office (3,155)
- General/Teaching Hospital (1,651)
- Other (1,027)

Since the 2011-2012 academic year, there has been a 95.0% increase in the total number of sites listed by programs as places of rotation. This increase is primarily driven by increases in the following institution type groupings during that time:

- Ambulatory Care Clinic/FQHC (273.8% increase)
- General Teaching/Community Hospital (53.5% increase)
- Other (38.7% increase)

The number of Academic Medical Centers listed as participating sites also increased by 85.0%. With only 198 unique sites in this category in the 2020-2021 academic year, however, this change had a relatively small impact on the overall increase in participating sites.

Number of Sites per Program

Overall, the average number of participating sites listed per program is 3.1. Among pipeline specialty programs, the average number of participating sites per program is 4.1. The pipeline specialties with the highest average number of participating sites include:

- Preventive medicine (6.5)
- Orthopaedic surgery (5.6)
- Plastic surgery integrated (5.6)

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

- Family medicine (39)
- Physical medicine and rehabilitation (23)
- Preventive medicine (23)

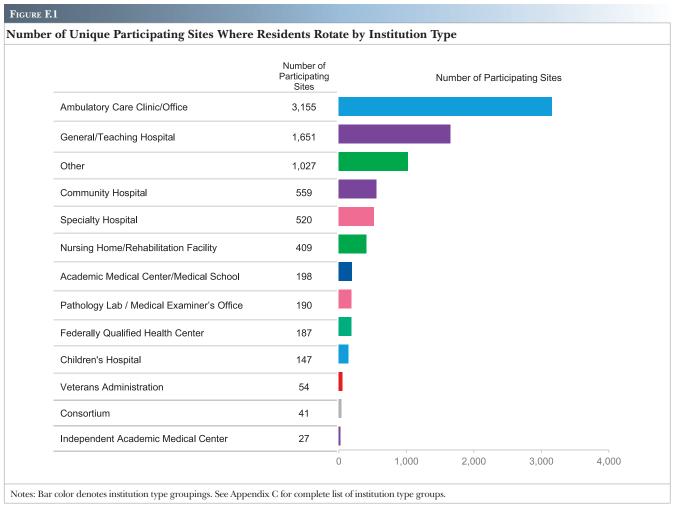
The subspecialty with the highest average number of participating sites per program is the surgical subspecialty of hand surgery at 6.5. The family medicine subspecialty of sports medicine, and the orthopaedic surgery subspecialty of orthopaedic sports medicine have the highest maximum number of participating sites per program at 15.

Number of Sites by Specialty and Subspecialty

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

- Family medicine (2,412)
- Internal medicine (1,560)
- Psychiatry (1,364)

Sponsoring Institutions account for 6.8% of all participating sites with 559 listed as participating sites to which residents rotate. \wedge



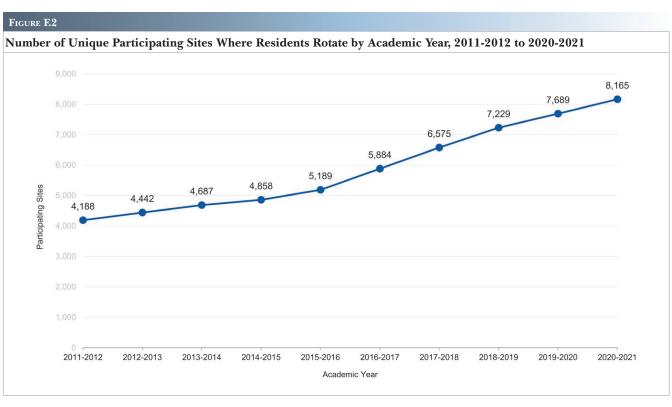
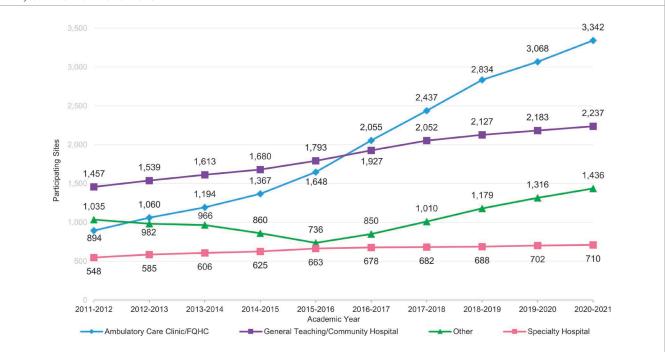


FIGURE F.3

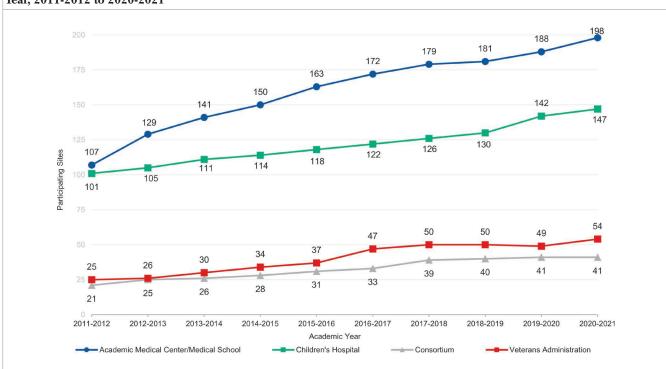
Number of Participating Sites where Residents Rotate by Institution Type Groups (Largest Groups Only) and Academic Year, 2011-2012 to 2020-2021



Note: See Appendix C for list of institution type groups. Abbreviation: FQHC, Federally Qualified Health Center.

FIGURE F.4

 $Number of \ Participating \ Sites \ where \ Residents \ Rotate \ by \ Institution \ Type \ Groups \ (Smallest \ Groups \ Only) \ and \ Academic \ Year, 2011-2012 \ to 2020-2021$



Note: See Appendix C for list of institution type groups.

| TABLE F.5 | | | | | | | |
|--|---|---|-----|-----|-----|--|--|
| Mean Number of Participating Sites per | Mean Number of Participating Sites per Program where Residents Rotate by Specialty and Subspecialty | | | | | | |
| | | Number of Participating Sites per Program | | | | | |
| Specialty | Total Programs | AVG | STD | MIN | MAX | | |
| OVERALL | 12,420 | 3.1 | 2.3 | 1 | 39 | | |
| TOTAL PIPELINE | 5,187 | 4.1 | 2.6 | 1 | 39 | | |
| Allergy and immunology | 82 | 2.7 | 1.4 | 1 | 6 | | |
| Anesthesiology | 161 | 4.1 | 1.9 | 1 | 9 | | |
| - Adult cardiothoracic anesthesiology | 73 | 1.8 | 0.9 | 1 | 5 | | |
| - Clinical informatics | 1 | 1.0 | 0.0 | 1 | 1 | | |
| - Critical care medicine | 64 | 1.8 | 0.9 | 1 | 4 | | |
| - Regional anesthesiology and acute pain medicine | 38 | 2.1 | 1.3 | 1 | 6 | | |
| - Obstetric anesthesiology | 41 | 1.3 | 0.6 | 1 | 3 | | |
| - Pain medicine (multidisciplinary) | 111 | 2.6 | 1.6 | 1 | 9 | | |
| - Pediatric anesthesiology | 60 | 1.6 | 0.9 | 1 | 4 | | |
| Colon and rectal surgery | 66 | 2.8 | 1.6 | 1 | 8 | | |
| Dermatology | 144 | 4.4 | 3.0 | 1 | 18 | | |
| - Dermatopathology (multidisciplinary) | 58 | 1.9 | 0.9 | 1 | 4 | | |
| - Micrographic surgery and dermatologic oncology | 78 | 2.2 | 1.3 | 1 | 7 | | |
| Emergency medicine | 276 | 4.1 | 2.0 | 1 | 15 | | |
| - Clinical informatics | 5 | 4.0 | 2.5 | 2 | 8 | | |
| - Emergency medical services | 75 | 3.3 | 2.6 | 1 | 12 | | |
| - Medical toxicology | 27 | 3.1 | 1.3 | 1 | 6 | | |
| - Pediatric emergency medicine | 27 | 2.6 | 1.3 | 1 | 5 | | |
| - Sports medicine | 9 | 4.8 | 3.8 | 1 | 11 | | |
| - Undersea and hyperbaric medicine | 8 | 1.6 | 0.5 | 1 | 2 | | |
| Family medicine | 710 | 4.3 | 3.6 | 1 | 39 | | |
| - Clinical informatics | 6 | 4.0 | 3.3 | 1 | 11 | | |
| - Geriatric medicine | 49 | 4.2 | 2.5 | 1 | 10 | | |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 4.2 | 1.7 | 1 | 10 | | |
| - Sports medicine | 156 | 3.6 | 2.8 | 1 | 15 | | |
| Internal medicine | 586 | 3.2 | 2.6 | 1 | 17 | | |
| - Adult congenital heart disease | 24 | 1.8 | 0.7 | 1 | 3 | | |
| - Advanced heart failure and transplant cardiology | 82 | 1.4 | 0.6 | 1 | 3 | | |
| - Cardiovascular disease | 255 | 2.5 | 1.3 | 1 | 8 | | |
| - Clinical cardiac electrophysiology | 112 | 1.7 | 0.9 | 1 | 6 | | |
| - Clinical informatics | 19 | 2.1 | 1.5 | 1 | 6 | | |
| - Critical care medicine | 55 | 2.4 | 1.2 | 1 | 7 | | |
| - Endocrinology, diabetes, and metabolism | 153 | 2.7 | 1.3 | 1 | 6 | | |
| - Gastroenterology | 211 | 2.9 | 1.4 | 1 | 9 | | |
| - Geriatric medicine | 114 | 3.7 | 1.7 | 1 | 9 | | |
| · Hematology | 2 | 2.5 | 0.5 | 2 | 3 | | |
| - Hematology - Hematology and medical oncology | 172 | 2.8 | 1.4 | 1 | 9 | | |
| Infectious disease | 158 | 2.8 | 1.2 | 1 | 7 | | |
| Interventional cardiology | 170 | 1.7 | 1.0 | 1 | 6 | | |
| <u> </u> | 152 | 2.9 | 1.3 | 1 | 7 | | |
| Nephrology | 6 | 2.9 | 0.9 | | | | |
| - Medical oncology | 20 | | | 1 | 4 | | |
| Pulmonary disease Pulmonary disease and critical care medicine | | 2.5 | 1.0 | 1 | 7 | | |
| , | 188 | 3.1 | 1.4 | 1 | 6 | | |
| Rheumatology | 125 | 2.5 | 1.1 | 1 | | | |
| Sleep medicine (multidisciplinary) | 89 | 2.6 | 1.1 | 1 | 6 | | |
| - Transplant hepatology | 59 | 1.3 | 0.5 | 1 | 3 | | |
| Medical genetics and genomics | 46 | 3.2 | 1.9 | 1 | 8 | | |
| - Medical biochemical genetics | 20 | 2.3 | 1.2 | 1 | 5 | | |
| Molecular genetic pathology (multidisciplinary) | 42 | 1.9 | 1.2 | 1 | 6 | | |
| Neurological surgery - Endovascular surgical neuroradiology | 116 | 3.7 | 1.5 | 1 | 9 | | |

| Table F.5 Continued | | | | | | | | |
|---|---|---|-----|-----|-----|--|--|--|
| Mean Number of Participating Sites per | Mean Number of Participating Sites per Program where Residents Rotate by Specialty and Subspecialty | | | | | | | |
| | | Number of Participating Sites per Program | | | | | | |
| Specialty | Total Programs | AVG | STD | MIN | MAX | | | |
| Neurology | 170 | 3.5 | 1.9 | 1 | 12 | | | |
| - Brain injury medicine | 1 | 1.0 | 0.0 | 1 | 1 | | | |
| - Clinical neurophysiology | 93 | 2.1 | 1.1 | 1 | 6 | | | |
| - Epilepsy | 85 | 2.1 | 0.9 | 1 | 5 | | | |
| - Endovascular surgical neuroradiology | 2 | 1.5 | 0.5 | 1 | 2 | | | |
| - Neurodevelopmental disabilities | 8 | 4.1 | 0.9 | 3 | 5 | | | |
| - Neuromuscular medicine | 53 | 2.2 | 1.0 | 1 | 5 | | | |
| - Vascular neurology | 109 | 1.8 | 1.0 | 1 | 5 | | | |
| Child neurology | 77 | 2.8 | 1.3 | 1 | 6 | | | |
| Nuclear medicine | 37 | 2.5 | 1.3 | 1 | 6 | | | |
| Obstetrics and gynecology | 294 | 4.0 | 2.3 | 1 | 13 | | | |
| - Female pelvic medicine and reconstructive surgery | 54 | 2.7 | 1.4 | 1 | 8 | | | |
| - Gynecologic oncology | 63 | 2.2 | 1.1 | 1 | 5 | | | |
| - Maternal-fetal medicine | 100 | 2.0 | 1.0 | 1 | 5 | | | |
| - Reproductive endocrinology and infertility | 49 | 2.8 | 2.0 | 1 | 9 | | | |
| - Complex family planning | 26 | 2.8 | 1.0 | 1 | 6 | | | |
| Ophthalmology | 125 | 4.0 | 2.1 | 1 | 13 | | | |
| - Ophthalmic plastic and reconstructive surgery | 4 | 4.0 | 2.9 | 2 | 9 | | | |
| Orthopaedic surgery | 201 | 5.6 | 2.5 | 1 | 15 | | | |
| - Adult reconstructive orthopaedics | 25 | 2.4 | 1.2 | 1 | 4 | | | |
| - Foot and ankle orthopaedics | 7 | 2.6 | 1.4 | 1 | 4 | | | |
| - Hand surgery | 73 | 3.8 | 2.3 | 1 | 14 | | | |
| - Musculoskeletal oncology | 12 | 2.0 | 0.9 | 1 | 4 | | | |
| - Orthopaedic sports medicine | 93 | 3.2 | 2.6 | 1 | 15 | | | |
| - Orthopaedic surgery of the spine | 16 | 2.1 | 0.9 | 1 | 4 | | | |
| - Orthopaedic trauma | 12 | 1.7 | 1.1 | 1 | 4 | | | |
| - Pediatric orthopaedics | 25 | 1.5 | 0.8 | 1 | 3 | | | |
| Osteopathic neuromusculoskeletal medicine | 28 | 4.0 | 3.3 | 1 | 15 | | | |
| Otolaryngology - head and neck surgery | 125 | 4.3 | 2.2 | 1 | 16 | | | |
| , | 26 | 2.5 | | | | | | |
| - Neurotology | | | 1.3 | 1 | 6 | | | |
| - Pediatric otolaryngology | 31 | 1.3 | 0.5 | 1 | 3 | | | |
| Pathology-anatomic and clinical | 144 | 4.0 | 2.0 | 1 | 10 | | | |
| - Blood banking/transfusion medicine | 52 | 2.9 | 1.4 | 1 | 6 | | | |
| - Clinical informatics | 11 | 1.8 | 1.2 | 1 | 5 | | | |
| - Chemical pathology | 4 | 1.3 | 0.4 | 1 | 2 | | | |
| - Cytopathology | 93 | 1.4 | 0.6 | 1 | 3 | | | |
| - Forensic pathology | 45 | 1.3 | 0.8 | 1 | 4 | | | |
| - Hematopathology | 86 | 1.7 | 0.9 | 1 | 5 | | | |
| - Medical microbiology | 15 | 1.9 | 1.0 | 1 | 4 | | | |
| - Neuropathology | 38 | 2.2 | 1.2 | 1 | 6 | | | |
| - Pediatric pathology | 28 | 2.3 | 1.1 | 1 | 5 | | | |
| - Selective pathology | 109 | 1.4 | 0.6 | 1 | 3 | | | |
| Pediatrics | 210 | 2.8 | 1.6 | 1 | 11 | | | |
| - Adolescent medicine | 32 | 2.8 | 2.3 | 1 | 10 | | | |
| - Child abuse pediatrics | 31 | 2.8 | 1.7 | 1 | 9 | | | |
| - Clinical informatics | 8 | 2.1 | 1.1 | 1 | 4 | | | |
| - Developmental-behavioral pediatrics | 44 | 1.9 | 1.1 | 1 | 5 | | | |
| - Neonatal-perinatal medicine | 107 | 2.1 | 1.0 | 1 | 6 | | | |
| - Pediatric cardiology | 64 | 1.6 | 0.8 | 1 | 4 | | | |
| - Pediatric critical care medicine | 75 | 1.5 | 0.8 | 1 | 5 | | | |
| - Pediatric emergency medicine | 55 | 3.1 | 1.2 | 1 | 6 | | | |
| - Pediatric endocrinology | 72 | 1.6 | 0.8 | 1 | 5 | | | |
| - Pediatric gastroenterology | 67 | 1.6 | 0.7 | 1 | 4 | | | |

| Mean Number of Participating Sites per | | | | | | | |
|---|----------------|---|-----|-----|-----|--|--|
| | | Number of Participating Sites per Program | | | | | |
| Specialty | Total Programs | AVG | STD | MIN | MAX | | |
| - Pediatric hematology/oncology | 76 | 1.8 | 0.9 | 1 | 4 | | |
| - Pediatric infectious diseases | 64 | 2.0 | 1.2 | 1 | 6 | | |
| - Pediatric nephrology | 47 | 1.6 | 0.9 | 1 | 5 | | |
| - Pediatric pulmonology | 56 | 1.5 | 0.8 | 1 | 5 | | |
| - Pediatric rheumatology | 37 | 1.6 | 0.7 | 1 | 3 | | |
| - Sports medicine | 17 | 3.3 | 1.8 | 1 | 7 | | |
| - Pediatric transplant hepatology | 17 | 1.7 | 0.6 | 1 | 3 | | |
| - Pediatric hospital medicine | 54 | 2.6 | 0.7 | 1 | 4 | | |
| Physical medicine and rehabilitation | 98 | 5.4 | 3.0 | 1 | 23 | | |
| - Brain injury medicine | 25 | 2.5 | 0.6 | 2 | 4 | | |
| - Neuromuscular medicine | 1 | 4.0 | 0.0 | 4 | 4 | | |
| Spinal cord injury medicine | 24 | 2.9 | 0.7 | 2 | 4 | | |
| - Pediatric rehabilitation medicine | 22 | 2.1 | 0.9 | 1 | 4 | | |
| - Sports medicine | 21 | 3.2 | 1.3 | 1 | 6 | | |
| Plastic surgery | 52 | 5.1 | 2.1 | 1 | 12 | | |
| Plastic surgery - integrated | 86 | 5.6 | 2.4 | 1 | 13 | | |
| - Craniofacial surgery | 8 | 1.9 | 1.3 | 1 | 5 | | |
| - Hand surgery | 17 | 2.7 | 1.2 | 1 | 5 | | |
| Preventive medicine | 72 | | 4.2 | 1 | 23 | | |
| | | 6.5 | | - | | | |
| - Medical toxicology | 1 | 4.0 | 0.0 | 4 | 4 | | |
| - Undersea and hyperbaric medicine | 1 | 1.0 | 0.0 | 1 | 1 | | |
| Psychiatry | 287 | 5.5 | 3.0 | 1 | 18 | | |
| - Addiction medicine (multidisciplinary) | 85 | 4.2 | 2.4 | 1 | 10 | | |
| - Addiction psychiatry | 53 | 3.2 | 1.4 | 1 | 6 | | |
| - Child and adolescent psychiatry | 146 | 4.7 | 2.9 | 1 | 12 | | |
| - Forensic psychiatry | 49 | 3.9 | 1.4 | 2 | 8 | | |
| - Geriatric psychiatry | 64 | 3.7 | 2.0 | 1 | 11 | | |
| - Consultation-liaison psychiatry | 64 | 2.2 | 1.0 | 1 | 6 | | |
| Radiation oncology | 91 | 2.8 | 1.5 | 1 | 9 | | |
| Radiology-diagnostic | 196 | 3.2 | 1.8 | 1 | 13 | | |
| - Abdominal radiology | 13 | 1.7 | 0.9 | 1 | 4 | | |
| - Endovascular surgical neuroradiology | 3 | 1.0 | 0.0 | 1 | 1 | | |
| - Musculoskeletal radiology | 20 | 1.7 | 0.9 | 1 | 4 | | |
| Neuroradiology | 89 | 2.1 | 1.1 | 1 | 6 | | |
| Nuclear radiology | 18 | 1.7 | 1.2 | 1 | 6 | | |
| Pediatric radiology | 48 | 1.3 | 0.7 | 1 | 4 | | |
| Interventional radiology - independent | 95 | 2.5 | 1.3 | 1 | 8 | | |
| Interventional radiology - integrated | 92 | 3.2 | 1.4 | 1 | 9 | | |
| Surgery | 344 | 4.9 | 2.0 | 1 | 15 | | |
| Complex general surgical oncology | 31 | 2.3 | 1.3 | 1 | | | |
| | | | | | 6 | | |
| Hand surgery | 2 | 8.5 | 3.5 | 5 | 12 | | |
| Pediatric surgery | 51 | 1.6 | 0.7 | 1 | 3 | | |
| Surgical critical care | 145 | 1.7 | 0.9 | 1 | 5 | | |
| Vascular surgery | 115 | 2.4 | 1.1 | 1 | 6 | | |
| Vascular surgery - integrated | 67 | 3.7 | 1.6 | 1 | 8 | | |
| Γhoracic surgery | 74 | 2.7 | 1.2 | 1 | 6 | | |
| Congenital cardiac surgery | 15 | 1.4 | 0.5 | 1 | 2 | | |
| Гhoracic surgery - integrated | 33 | 4.1 | 1.7 | 2 | 8 | | |
| Urology | 145 | 4.0 | 1.6 | 1 | 9 | | |
| Female pelvic medicine and reconstructive surgery | 15 | 2.3 | 1.7 | 1 | 6 | | |
| - Pediatric urology | 26 | 1.4 | 0.6 | 1 | 3 | | |
| Transitional year | 172 | 2.3 | 2.0 | 1 | 19 | | |
| Internal medicine/Pediatrics | 79 | 3.8 | 2.3 | 1 | 18 | | |

TABLE F.6 Total Number of Participating Sites and Number of Sponsoring Institutions where Residents Rotate by Specialty and Subspecialty

| | | Sponsors | | | |
|---|----------------------------------|----------|--------|--|--|
| Specialty | Total Participating Sites | # | % | | |
| OVERALL | 8,165 | 559 | 6.8% | | |
| TOTAL PIPELINE | 6,103 | 501 | 8.2% | | |
| Allergy and immunology | 202 | 39 | 19.3% | | |
| Anesthesiology | 528 | 69 | 13.1% | | |
| - Adult cardiothoracic anesthesiology | 122 | 39 | 32.0% | | |
| - Clinical informatics | 1 | 1 | 100.0% | | |
| - Critical care medicine | 114 | 32 | 28.1% | | |
| - Regional anesthesiology and acute pain medicine | 75 | 19 | 25.3% | | |
| - Obstetric anesthesiology | 55 | 21 | 38.2% | | |
| Pain medicine (multidisciplinary) | 267 | 55 | 20.6% | | |
| Pediatric anesthesiology | 85 | 22 | 25.9% | | |
| Colon and rectal surgery | 179 | 32 | 17.9% | | |
| Dermatology | 586 | 58 | 9.9% | | |
| Dermatopathology (multidisciplinary) | 105 | 29 | 27.6% | | |
| Micrographic surgery and dermatologic oncology | 169 | 39 | 23.1% | | |
| Emergency medicine | 823 | 125 | 15.2% | | |
| Clinical informatics | 19 | 2 | 10.5% | | |
| - Emergency medical services | 245 | 32 | 13.1% | | |
| Medical toxicology | 82 | 7 | 8.5% | | |
| Pediatric emergency medicine | 64 | 12 | 18.8% | | |
| Sports medicine | 43 | 0 | 0.0% | | |
| Undersea and hyperbaric medicine | 13 | 5 | 38.5% | | |
| Family medicine | 2,412 | 313 | 13.0% | | |
| Clinical informatics | 24 | 2 | 8.3% | | |
| Geriatric medicine | 200 | 24 | 12.0% | | |
| Hospice and palliative medicine (multidisciplinary) | 635 | 86 | 13.5% | | |
| Sports medicine | 544 | 73 | 13.4% | | |
| Internal medicine | 1,560 | 279 | 17.9% | | |
| Adult congenital heart disease | 44 | 11 | 25.0% | | |
| Advanced heart failure and transplant cardiology | 109 | 34 | 31.2% | | |
| - Cardiovascular disease | 530 | 108 | 20.4% | | |
| · Clinical cardiac electrophysiology | 187 | 52 | 27.8% | | |
| Clinical informatics | 39 | 9 | 23.1% | | |
| Critical care medicine | 122 | 28 | 23.0% | | |
| - Endocrinology, diabetes, and metabolism | 385 | 69 | 17.9% | | |
| - Gastroenterology | 503 | 96 | 19.1% | | |
| Geriatric medicine | 404 | 49 | 12.1% | | |
| Hematology | 5 | 1 | 20.0% | | |
| Hematology and medical oncology | 396 | 82 | 20.7% | | |
| Infectious disease | 380 | 71 | 18.7% | | |
| Interventional cardiology | 288 | 73 | 25.3% | | |
| Nephrology | 396 | 72 | 18.2% | | |
| Medical oncology | 14 | 2 | 14.3% | | |
| Pulmonary disease | 49 | 13 | 26.5% | | |
| Pulmonary disease and critical care medicine | 484 | 87 | 18.0% | | |
| Rheumatology | 294 | 55 | 18.7% | | |
| Sleep medicine (multidisciplinary) | 221 | 39 | 17.6% | | |
| - Transplant hepatology | 79 | 28 | 35.4% | | |
| Medical genetics and genomics | 130 | 24 | 18.5% | | |
| - Medical biochemical genetics | 44 | 11 | 25.0% | | |
| - Molecular genetic pathology (multidisciplinary) | 75 | 20 | 26.7% | | |
| Neurological surgery | 361 | 52 | 14.4% | | |
| - Endovascular surgical neuroradiology | 4 | 0 | 0.0% | | |

Table F.6 Continued

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

| | | Sp | onsors |
|---|----------------------------------|-----|--------|
| Specialty | Total Participating Sites | # | % |
| Neurology | 520 | 73 | 14.0% |
| - Brain injury medicine | 1 | 0 | 0.0% |
| - Clinical neurophysiology | 183 | 42 | 23.0% |
| - Epilepsy | 143 | 36 | 25.2% |
| - Endovascular surgical neuroradiology | 3 | 0 | 0.0% |
| - Neurodevelopmental disabilities | 33 | 4 | 12.1% |
| - Neuromuscular medicine | 112 | 29 | 25.9% |
| - Vascular neurology | 190 | 50 | 26.3% |
| Child neurology | 211 | 34 | 16.1% |
| Nuclear medicine | 88 | 16 | 18.2% |
| Obstetrics and gynecology | 1,008 | 142 | 14.1% |
| - Female pelvic medicine and reconstructive surgery | 147 | 27 | 18.4% |
| - Gynecologic oncology | 141 | 29 | 20.6% |
| - Maternal-fetal medicine | 198 | 42 | 21.2% |
| - Reproductive endocrinology and infertility | 136 | 21 | 15.4% |
| - Complex family planning | 73 | 10 | 13.7% |
| Ophthalmology | 457 | 51 | 11.2% |
| - Ophthalmic plastic and reconstructive surgery | 16 | 1 | 6.3% |
| Orthopaedic surgery | 875 | 85 | 9.7% |
| - Adult reconstructive orthopaedics | 55 | 7 | 12.7% |
| - Foot and ankle orthopaedics | 18 | 5 | 27.8% |
| - Hand surgery | 256 | 33 | 12.9% |
| - Musculoskeletal oncology | 24 | 7 | 29.2% |
| - Orthopaedic sports medicine | 277 | 46 | 16.6% |
| - Orthopaedic surgery of the spine | 33 | 9 | 27.3% |
| - Orthopaedic trauma | 20 | 6 | 30.0% |
| - Pediatric orthopaedics | 38 | 10 | 26.3% |
| Osteopathic neuromusculoskeletal medicine | 109 | 13 | 11.9% |
| Otolaryngology - head and neck surgery | 462 | 54 | 11.7% |
| - Neurotology | 66 | 14 | 21.2% |
| - Pediatric otolaryngology | 40 | 12 | 30.0% |
| Pathology-anatomic and clinical | 476 | 64 | 13.4% |
| - Blood banking/transfusion medicine | 141 | 29 | 20.6% |
| - Clinical informatics | 20 | 4 | 20.0% |
| - Chemical pathology | 5 | 3 | 60.0% |
| - Cytopathology | 124 | 44 | 35.5% |
| - Forensic pathology | 59 | 22 | 37.3% |
| - Hematopathology | 139 | 42 | 30.2% |
| - Medical microbiology | 28 | 9 | 32.1% |
| - Neuropathology | 75 | 19 | 25.3% |
| - Pediatric pathology | 63 | 13 | 20.6% |
| Selective pathology | 75 | 23 | 30.7% |
| Pediatrics | 482 | 104 | 21.6% |
| - Adolescent medicine | 89 | 13 | 14.6% |
| - Child abuse pediatrics | 85 | 13 | 15.3% |
| - Clinical informatics | 17 | 6 | 35.3% |
| - Developmental-behavioral pediatrics | 81 | 20 | 24.7% |
| - Neonatal-perinatal medicine | 212 | 45 | 21.2% |
| - Pediatric cardiology | 98 | 28 | 28.6% |
| - Pediatric critical care medicine | 102 | 32 | 31.4% |
| - Pediatric emergency medicine | 152 | 23 | 15.1% |
| - Pediatric endocrinology | 112 | 32 | 28.6% |
| - Pediatric gastroenterology | 99 | 30 | 30.3% |

Table F.6 Continued

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

| | | Spo | onsors |
|--|----------------------------------|-----|--------|
| Specialty | Total Participating Sites | # | % |
| - Pediatric hematology/oncology | 123 | 32 | 26.0% |
| - Pediatric infectious diseases | 123 | 29 | 23.6% |
| - Pediatric nephrology | 72 | 20 | 27.8% |
| - Pediatric pulmonology | 82 | 24 | 29.3% |
| - Pediatric rheumatology | 59 | 13 | 22.0% |
| - Sports medicine | 56 | 11 | 19.6% |
| - Pediatric transplant hepatology | 29 | 5 | 17.2% |
| - Pediatric hospital medicine | 137 | 20 | 14.6% |
| Physical medicine and rehabilitation | 474 | 42 | 8.9% |
| - Brain injury medicine | 61 | 9 | 14.8% |
| - Neuromuscular medicine | 4 | 0 | 0.0% |
| | 66 | 8 | 12.1% |
| - Spinal cord injury medicine - Pediatric rehabilitation medicine | | | |
| | 46 | | 15.2% |
| - Sports medicine | 65 | 3 | 4.6% |
| Plastic surgery | 242 | 23 | 9.5% |
| Plastic surgery - integrated | 442 | 38 | 8.6% |
| - Craniofacial surgery | 15 | 3 | 20.0% |
| - Hand surgery | 46 | 8 | 17.4% |
| Preventive medicine | 387 | 31 | 8.0% |
| - Medical toxicology | 4 | 1 | 25.0% |
| - Undersea and hyperbaric medicine | 1 | 1 | 100.0% |
| Psychiatry | 1,364 | 135 | 9.9% |
| - Addiction medicine (multidisciplinary) | 337 | 38 | 11.3% |
| - Addiction psychiatry | 162 | 19 | 11.7% |
| - Child and adolescent psychiatry | 656 | 63 | 9.6% |
| - Forensic psychiatry | 181 | 19 | 10.5% |
| - Geriatric psychiatry | 233 | 22 | 9.4% |
| - Consultation-liaison psychiatry | 138 | 31 | 22.5% |
| Radiation oncology | 224 | 40 | 17.9% |
| Radiology-diagnostic | 493 | 88 | 17.8% |
| - Abdominal radiology | 22 | 6 | 27.3% |
| - Endovascular surgical neuroradiology | 3 | 2 | 66.7% |
| - Musculoskeletal radiology | 34 | 10 | 29.4% |
| - Neuroradiology | 172 | 41 | 23.8% |
| - Nuclear radiology | 31 | 11 | 35.5% |
| - Pediatric radiology | 61 | 20 | 32.8% |
| Interventional radiology - independent | 229 | 42 | 18.3% |
| Interventional radiology - integrated | 267 | 40 | 15.0% |
| Surgery | 1,143 | 156 | 13.6% |
| - Complex general surgical oncology | 68 | 14 | 20.6% |
| - Hand surgery | 17 | 1 | 5.9% |
| - Pediatric surgery | 79 | 18 | 22.8% |
| - Surgical critical care | 226 | 64 | 28.3% |
| - Vascular surgery | 277 | 52 | 18.8% |
| Vascular surgery - integrated | 241 | 30 | 12.4% |
| 0 , 0 | 183 | 38 | 20.8% |
| Thoracic surgery - Congenital cardiac surgery | 21 | | 33.3% |
| | | 17 | |
| Thoracic surgery - integrated | 133 | | 12.8% |
| Urology | 517 | 66 | 12.8% |
| - Female pelvic medicine and reconstructive surgery | 33 | 9 | 27.3% |
| - Pediatric urology | 36 | 9 | 25.0% |
| Transitional year | 377 | 85 | 22.5% |
| Internal medicine/Pediatrics | 290 | 32 | 11.0% |

Participating Sites

Program Directors and Faculty

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 703 specialty programs (12.8%) and 797 subspecialty programs (11.5%) had at least one program director change during the academic year. Of these, a small number (33 specialty programs and 29 subspecialty programs) had more than one program director change during the academic year. Overall, 1,567 distinct program director changes occurred in 1,500 programs during the academic year. The specialties with the highest percentage of program director turnover include:

- Radiation oncology (18.7%)
- Child neurology (18.2%)
- Preventive medicine (18.1%)
- Anesthesiology (18.0%)

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

- Family medicine (103)
- Internal medicine (76)
- Obstetrics and gynecology (53)
- Psychiatry (52)

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

- Orthopaedic surgery (8.5%)
- Pediatrics (8.6%)
- Medical genetics and genomics (8.7%)
- Internal medicine/Pediatrics (8.9%)

Historically, between 11% and 14% of programs have 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, 2011, allergy and immunology program directors have had the highest average tenure at 10.4 years, while interventional radiology – integrated program directors have had the lowest tenure at 1.2 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 12.4 years among medical specialty programs, 9.3 years among hospital-based specialty programs, and 11.9 years among surgical specialty programs. In each group, the mean length in years that subspecialty program directors have taught in their subspecialty is 10.1 years, 10.0 years, and 12.2 years in medical, hospital-based, and surgical subspecialty programs, respectively. The mean length in years that continuing program directors have taught in their specialty is 17.8 years among medical specialty programs, 15.2 years among hospital-based specialty programs, and 17.3 years among surgical specialty programs.

Physician Faculty Members

A total of 195,095 physician faculty members were listed as active at the time of the Academic Year 2020-2021 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 15.7 overall. The specialties with the highest average number of faculty members per program include:

- Anesthesiology (55.7)
- Pediatrics (42.7)
- Radiology diagnostic (34.4)
- Surgery general (31.2)

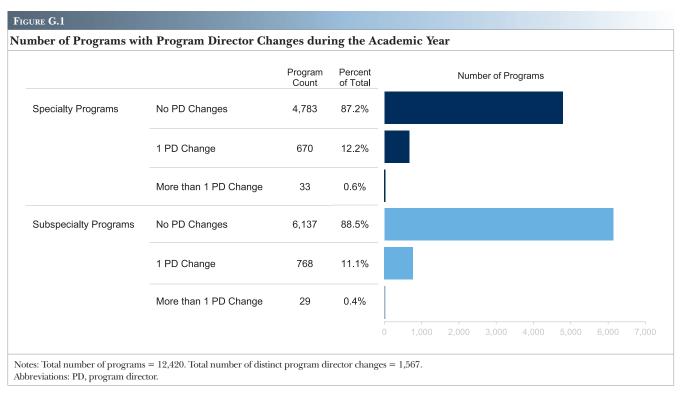
The subspecialties with the highest average number of faculty members per program include:

- Pediatric emergency medicine (20.2)
- Neurodevelopmental disabilities (19.0)
- Complex general surgical oncology (17.0)
- Pediatric cardiology (16.9)

Core Faculty

A total of 70,806 core faculty members were listed as active in specialty programs at the time of the Academic Year 2020-2021 snapshot. The specialties with the highest average number of core faculty members per program include:

- Anesthesiology (25.5)
- Pediatrics (24.6)
- Radiology diagnostic (20.9)
- Orthopaedic surgery (18.6) ∧



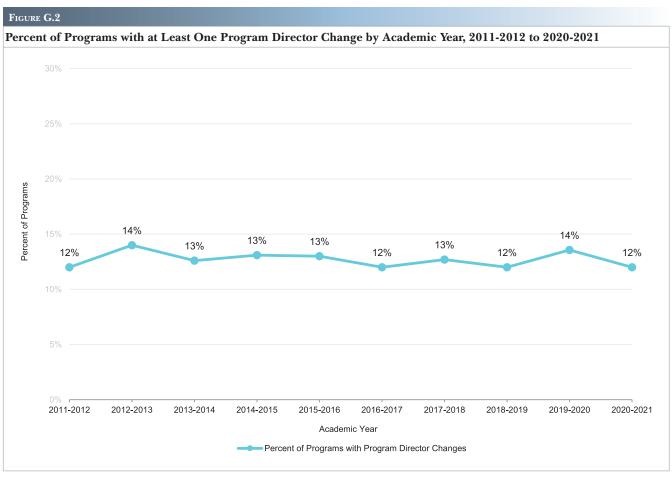


TABLE G.3 Number of Programs with New Program Directors and Number of Distinct Program Director Changes during the Academic Year by Specialty and Subspecialty

| | | Programs w | ith New PDs | |
|---|----------------|------------|-------------|-------------------------------|
| Specialty | Total Programs | # | % | Number of Distinct PD Changes |
| OVERALL | 12,420 | 1,500 | 12.1% | 1,567 |
| TOTAL PIPELINE | 5,187 | 669 | 12.9% | 705 |
| Allergy and immunology | 82 | 9 | 11.0% | 9 |
| Anesthesiology | 161 | 29 | 18.0% | 29 |
| - Adult cardiothoracic anesthesiology | 73 | 11 | 15.1% | 11 |
| - Clinical informatics | 1 | 0 | 0.0% | 0 |
| - Critical care medicine | 64 | 16 | 25.0% | 17 |
| - Regional anesthesiology and acute pain medicine | 38 | 5 | 13.2% | 6 |
| - Obstetric anesthesiology | 41 | 7 | 17.1% | 8 |
| - Pain medicine (multidisciplinary) | 111 | 11 | 9.9% | 11 |
| - Pediatric anesthesiology | 60 | 4 | 6.7% | 4 |
| Colon and rectal surgery | 66 | 9 | 13.6% | 9 |
| Dermatology | 144 | 23 | 16.0% | 26 |
| - Dermatopathology (multidisciplinary) | 58 | 4 | 6.9% | 4 |
| - Micrographic surgery and dermatologic oncology | 78 | 5 | 6.4% | 5 |
| Emergency medicine | 276 | 29 | 10.5% | 31 |
| - Clinical informatics | 5 | 1 | 20.0% | 1 |
| - Emergency medical services | 75 | 13 | 17.3% | 13 |
| - Medical toxicology | 27 | 2 | 7.4% | 2 |
| - Pediatric emergency medicine | 27 | 5 | 18.5% | 5 |
| - Sports medicine | 9 | 2 | 22.2% | 2 |
| - Undersea and hyperbaric medicine | 8 | 1 | 12.5% | 1 |
| Family medicine | 710 | 96 | 13.5% | 103 |
| - Clinical informatics | 6 | 0 | 0.0% | 0 |
| - Geriatric medicine | 49 | 6 | 12.2% | 6 |
| - Hospice and palliative medicine (multidisciplinary) | 180 | 16 | 8.9% | 16 |
| - Sports medicine | 156 | 13 | 8.3% | 14 |
| Internal medicine | 586 | 73 | 12.5% | 76 |
| - Adult congenital heart disease | 24 | 2 | 8.3% | 2 |
| - Advanced heart failure and transplant cardiology | 82 | 12 | 14.6% | 13 |
| - Cardiovascular disease | 255 | 28 | 11.0% | 29 |
| - Clinical cardiac electrophysiology | 112 | 8 | 7.1% | 8 |
| - Clinical informatics | 19 | 3 | 15.8% | 3 |
| - Critical care medicine | 55 | 11 | 20.0% | 11 |
| - Endocrinology, diabetes, and metabolism | 153 | 15 | 9.8% | 15 |
| - Gastroenterology | 211 | 30 | 14.2% | 32 |
| - Geriatric medicine | 114 | 15 | 13.2% | 16 |
| - Hematology | 2 | 0 | 0.0% | 0 |
| - Hematology and medical oncology | 172 | 22 | 12.8% | 22 |
| - Infectious disease | 158 | 17 | 10.8% | 18 |
| - Interventional cardiology | 170 | 22 | 12.9% | 22 |
| - Nephrology | 152 | 15 | 9.9% | 15 |
| - Medical oncology | 6 | 1 | 16.7% | 1 |
| - Pulmonary disease | 20 | 5 | 25.0% | 6 |
| - Pulmonary disease and critical care medicine | 188 | 25 | 13.3% | 27 |
| - Rheumatology | 125 | 13 | 10.4% | 14 |
| - Sleep medicine (multidisciplinary) | 89 | 6 | 6.7% | 6 |
| - Transplant hepatology | 59 | 9 | 15.3% | 9 |
| Medical genetics and genomics | 46 | 4 | 8.7% | 4 |
| - Medical biochemical genetics | 20 | 3 | 15.0% | 3 |
| - Molecular genetic pathology (multidisciplinary) | 42 | 7 | 16.7% | 8 |
| Neurological surgery | 116 | 11 | 9.5% | 12 |
| - Endovascular surgical neuroradiology | 2 | 1 | 50.0% | 1 |

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

| | | Programs w | rith New PDs | |
|---|----------------|------------|--------------|------------------------------|
| Specialty | Total Programs | # | % | Number of Distinct PD Change |
| Neurology | 170 | 22 | 12.9% | 22 |
| - Brain injury medicine | 1 | 0 | 0.0% | 0 |
| - Clinical neurophysiology | 93 | 2 | 2.2% | 2 |
| - Epilepsy | 85 | 9 | 10.6% | 9 |
| - Endovascular surgical neuroradiology | 2 | 0 | 0.0% | 0 |
| - Neurodevelopmental disabilities | 8 | 2 | 25.0% | 2 |
| - Neuromuscular medicine | 53 | 3 | 5.7% | 3 |
| - Vascular neurology | 109 | 10 | 9.2% | 10 |
| Child neurology | 77 | 14 | 18.2% | 14 |
| Nuclear medicine | 37 | 6 | 16.2% | 6 |
| Obstetrics and gynecology | 294 | 48 | 16.3% | 53 |
| - Female pelvic medicine and reconstructive surgery | 54 | 7 | 13.0% | 7 |
| - Gynecologic oncology | 63 | 9 | 14.3% | 9 |
| - Maternal-fetal medicine | 100 | 17 | 17.0% | 17 |
| - Reproductive endocrinology and infertility | 49 | 7 | 14.3% | 7 |
| - Complex family planning | 26 | 3 | 11.5% | 3 |
| Ophthalmology | 125 | 13 | 10.4% | 13 |
| - Ophthalmic plastic and reconstructive surgery | 4 | 1 | 25.0% | 1 |
| Orthopaedic surgery | 201 | 17 | 8.5% | 17 |
| - Adult reconstructive orthopaedics | 25 | 3 | 12.0% | 3 |
| - Foot and ankle orthopaedics | 7 | 0 | 0.0% | 0 |
| - Hand surgery | 73 | 5 | 6.8% | 6 |
| - Musculoskeletal oncology | 12 | 1 | 8.3% | 1 |
| - Orthopaedic sports medicine | 93 | 9 | 9.7% | 9 |
| - Orthopaedic surgery of the spine | 16 | 3 | 18.8% | 3 |
| - Orthopaedic trauma | 12 | 2 | 16.7% | 2 |
| - Pediatric orthopaedics | 25 | 0 | 0.0% | 0 |
| Osteopathic neuromusculoskeletal medicine | 28 | 5 | 17.9% | 5 |
| Otolaryngology - head and neck surgery | 125 | 13 | 10.4% | 13 |
| - Neurotology | 26 | 0 | 0.0% | 0 |
| - Pediatric otolaryngology | 31 | 7 | 22.6% | 7 |
| Pathology-anatomic and clinical | 144 | 16 | 11.1% | 17 |
| - Blood banking/transfusion medicine | 52 | 7 | 13.5% | 7 |
| - Clinical informatics | 11 | 0 | 0.0% | 0 |
| - Chemical pathology | 4 | 0 | 0.0% | 0 |
| - Cytopathology | 93 | 13 | 14.0% | 13 |
| - Forensic pathology | 45 | 3 | 6.7% | 3 |
| - Hematopathology | 86 | 10 | 11.6% | 11 |
| - Medical microbiology | 15 | 1 | 6.7% | 1 |
| - Neuropathology | 38 | 6 | 15.8% | 7 |
| - Pediatric pathology | 28 | 3 | 10.7% | 3 |
| - Selective pathology | 109 | 11 | 10.1% | 13 |
| Pediatrics | 210 | 18 | 8.6% | 18 |
| - Adolescent medicine | 32 | 1 | 3.1% | 1 |
| - Child abuse pediatrics | 31 | 3 | 9.7% | 3 |
| - Clinical informatics | 8 | 0 | 0.0% | 0 |
| - Developmental-behavioral pediatrics | 44 | 5 | 11.4% | 5 |
| - Neonatal-perinatal medicine | 107 | 11 | 10.3% | 11 |
| - Pediatric cardiology | 64 | 6 | 9.4% | 6 |
| - Pediatric critical care medicine | 75 | 15 | 20.0% | 16 |
| - Pediatric emergency medicine | 55 | 5 | 9.1% | 5 |
| - Pediatric endocrinology | 72 | 2 | 2.8% | 2 |
| - Pediatric gastroenterology | 67 | 7 | 10.4% | 8 |

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

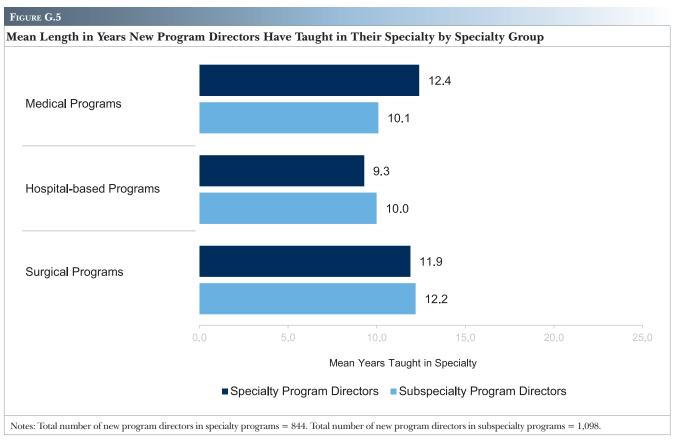
| | | Programs w | ith New PDs | |
|--|----------------|------------|-------------|------------------------------|
| Specialty | Total Programs | # | % | Number of Distinct PD Change |
| - Pediatric hematology/oncology | 76 | 11 | 14.5% | 11 |
| - Pediatric infectious diseases | 64 | 6 | 9.4% | 6 |
| - Pediatric nephrology | 47 | 9 | 19.1% | 9 |
| - Pediatric pulmonology | 56 | 6 | 10.7% | 6 |
| - Pediatric rheumatology | 37 | 3 | 8.1% | 3 |
| - Sports medicine | 17 | 2 | 11.8% | 3 |
| - Pediatric transplant hepatology | 17 | 1 | 5.9% | 1 |
| - Pediatric hospital medicine A74 | 54 | 4 | 7.4% | 4 |
| Physical medicine and rehabilitation | 98 | 13 | 13.3% | 13 |
| - Brain injury medicine | 25 | 0 | 0.0% | 0 |
| - Neuromuscular medicine | 1 | 0 | 0.0% | 0 |
| - Spinal cord injury medicine | 24 | 1 | 4.2% | 1 |
| - Pediatric rehabilitation medicine | 22 | 3 | 13.6% | 3 |
| - Sports medicine | 21 | 1 | 4.8% | 1 |
| Plastic surgery | 52 | 6 | 11.5% | 7 |
| Plastic surgery - integrated | 86 | 12 | 14.0% | 12 |
| - Craniofacial surgery | 8 | 2 | 25.0% | 2 |
| - Hand surgery | 17 | 1 | 5.9% | 1 |
| Preventive medicine | 72 | 13 | 18.1% | 16 |
| | 1 | 0 | 0.0% | 0 |
| - Medical toxicology | | | | |
| - Undersea and hyperbaric medicine | 1 | 1 | 100.0% | 1 |
| Psychiatry 1: 1 (1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: | 287 | 48 | 16.7% | 52 |
| - Addiction medicine (multidisciplinary) | 85 | 4 | 4.7% | 4 |
| - Addiction psychiatry | 53 | 6 | 11.3% | 7 |
| - Child and adolescent psychiatry | 146 | 16 | 11.0% | 17 |
| - Forensic psychiatry | 49 | 5 | 10.2% | 5 |
| - Geriatric psychiatry | 64 | 5 | 7.8% | 7 |
| - Consultation-liaison psychiatry | 64 | 8 | 12.5% | 8 |
| Radiation oncology | 91 | 17 | 18.7% | 17 |
| Radiology-diagnostic | 196 | 21 | 10.7% | 21 |
| - Abdominal radiology | 13 | 4 | 30.8% | 4 |
| - Endovascular surgical neuroradiology | 3 | 0 | 0.0% | 0 |
| - Musculoskeletal radiology | 20 | 3 | 15.0% | 3 |
| - Neuroradiology | 89 | 9 | 10.1% | 9 |
| - Nuclear radiology | 18 | 5 | 27.8% | 5 |
| - Pediatric radiology | 48 | 9 | 18.8% | 10 |
| Interventional radiology - independent | 95 | 18 | 18.9% | 19 |
| Interventional radiology - integrated | 92 | 12 | 13.0% | 12 |
| Surgery | 344 | 38 | 11.0% | 42 |
| - Complex general surgical oncology | 31 | 2 | 6.5% | 2 |
| - Hand surgery | 2 | 0 | 0.0% | 0 |
| - Pediatric surgery | 51 | 8 | 15.7% | 8 |
| - Surgical critical care | 145 | 17 | 11.7% | 18 |
| - Vascular surgery | 115 | 17 | 14.8% | 17 |
| Vascular surgery - integrated | 67 | 9 | 13.4% | 9 |
| Thoracic surgery | 74 | 12 | 16.2% | 14 |
| - Congenital cardiac surgery | 15 | 4 | 26.7% | 4 |
| Thoracic surgery - integrated | 33 | 3 | 9.1% | 4 |
| Urology | 145 | 15 | 10.3% | 15 |
| - Female pelvic medicine and reconstructive surgery | 15 | 1 | 6.7% | 1 |
| - Pediatric urology | 26 | 4 | 15.4% | 4 |
| Transitional year | 172 | 22 | 12.8% | 22 |
| Internal medicine/Pediatrics | 79 | 7 | 8.9% | 7 |

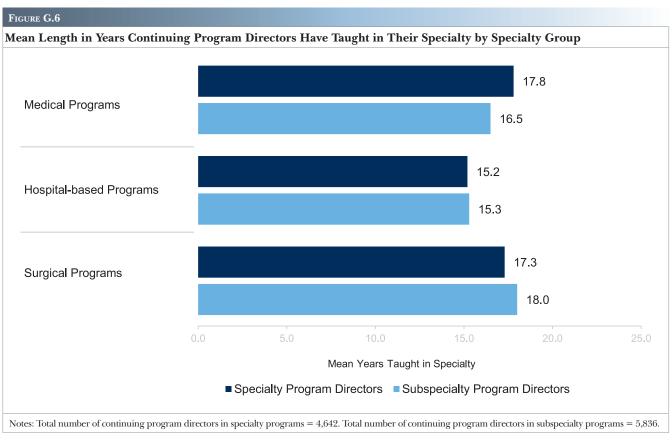
 $Notes: Total\ number\ of\ distinct\ program\ director\ changes=1,567\ (740\ in\ specialty\ programs\ and\ 827\ in\ subspecialty\ programs).\ Pipeline\ specialties\ are\ highlighted.$ Abbreviations: PD, program director.

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

| | # of Past | | | |
|---|--------------|--------|------|-----------------------|
| | PDs | Median | Mean | Mean Length of Tenure |
| Allergy and immunology | 62 | 6.7 | 10.4 | |
| Anesthesiology | 151 | 5.7 | 6.7 | |
| Colon and rectal surgery | 48 | 4.5 | 5.9 | |
| Dermatology | 127 | 5.7 | 7.3 | |
| Emergency medicine | 193 | 5.9 | 7.0 | |
| Family medicine | 534 | 4.9 | 6.7 | |
| Internal medicine | 443 | 5.0 | 6.9 | |
| Medical genetics and genomics | 46 | 4.7 | 7.3 | |
| Neurological surgery | 101 | 4.8 | 6.7 | |
| Neurology | 138 | 5.0 | 6.3 | |
| Child neurology | 74 | 5.6 | 7.8 | |
| Nuclear medicine | 36 | 5.0 | 8.5 | |
| Obstetrics and gynecology | 289 | 4.9 | 6.4 | |
| Ophthalmology | 124 | 6.0 | 7.6 | |
| Orthopaedic surgery | 161 | 5.0 | 7.2 | |
| Osteopathic neuromusculoskeletal medicine | 4 | 4.1 | 4.1 | |
| Otolaryngology - head and neck surgery | 107 | 5.6 | 7.3 | |
| Pathology-anatomic and clinical | 179 | 4.6 | 6.5 | |
| Pediatrics | 179 | 6.0 | 7.8 | |
| Physical medicine and rehabilitation | 75 | 6.3 | 7.8 | |
| Plastic surgery | 61 | 6.7 | 8.6 | |
| Plastic Surgery - integrated | 57 | 5.0 | 6.9 | |
| Preventive medicine | 99 | 4.0 | 5.9 | |
| Psychiatry | 224 | 4.3 | 6.3 | |
| Radiation oncology | 111 | 4.7 | 5.9 | |
| Radiology-diagnostic | 203 | 5.2 | 6.7 | |
| nterventional radiology - integrated | 24 | 1.2 | 1.2 | |
| Surgery | 298 | 5.7 | 6.9 | |
| Vascular surgery - integrated | 54 | 2.6 | 3.6 | |
| Thoracic surgery | 67 | 5.1 | 7.1 | |
| Thoracic surgery - integrated | 24 | 3.5 | 5.3 | |
| Urology | 108 | 6.5 | 8.3 | |
| Transitional year | 101 | 4.1 | 6.3 | |
| Internal medicine/Pediatrics | 55 | 6.0 | 7.2 | |

Notes: Data are based on program director changes since 7/1/2011 (n = 4,557). Overall mean length in tenure = 6.8 years. Abbreviations: PD, program director:





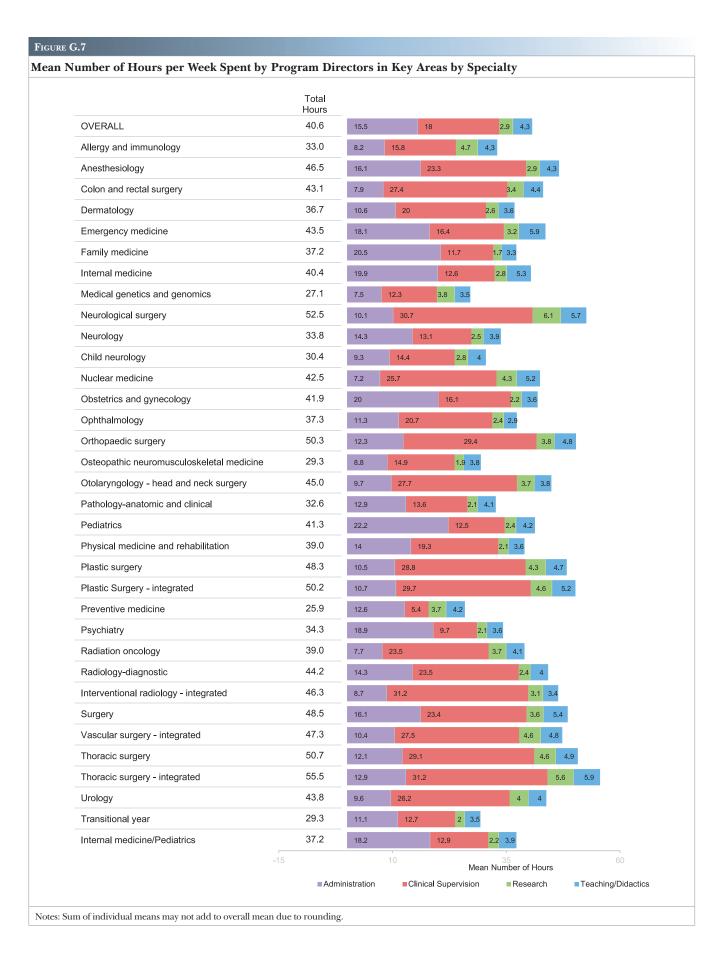


TABLE G.8 Number of Physician Faculty Members and Mean Number of Physician Faculty Members per Program by Specialty and Subspecialty

| Specialty | Total Programs | Total Number of Physician Faculty | Mean | MIN | MAX |
|--|----------------|--------------------------------------|-------------|-----|-----|
| OVERALL | 12,420 | 195,095 | 15.7 | 0 | 306 |
| TOTAL PIPELINE | 5,187 | 128,796 | 24.8 | 1 | 306 |
| Allergy and immunology | 82 | 824 | 10.0 | 2 | 28 |
| Anesthesiology | 161 | 8,972 | 55.7 | 8 | 161 |
| Adult cardiothoracic anesthesiology | 73 | 1,016 | 13.9 | 4 | 33 |
| Clinical informatics | 1 | 6 | 6.0 | 6 | 6 |
| Critical care medicine | 64 | 874 | 13.7 | 4 | 39 |
| Regional anesthesiology and acute pain medicine | 38 | 426 | 11.2 | 3 | 35 |
| Obstetric anesthesiology | 41 | 379 | 9.2 | 2 | 19 |
| Pain medicine (multidisciplinary) | 111 | 1,053 | 9.5 | 2 | 29 |
| Pediatric anesthesiology | 60 | 942 | 15.7 | 4 | 45 |
| Colon and rectal surgery | 66 | 453 | 6.9 | 3 | 21 |
| Dermatology | 144 | 2,260 | 15.7 | 3 | 49 |
| Dermatopathology (multidisciplinary) | 58 | 369 | 6.4 | 1 | 23 |
| Micrographic surgery and dermatologic oncology | 78 | 307 | 3.9 | 1 | 13 |
| Emergency medicine | 276 | 6,073 | 22.0 | 4 | 99 |
| Clinical informatics | 5 | 44 | 8.8 | 7 | 12 |
| Emergency medical services | 75 | 337 | 4.5 | 1 | 18 |
| Medical toxicology | 27 | 155 | 5.7 | 2 | 12 |
| Pediatric emergency medicine | 27 | 287 | 10.6 | 2 | 25 |
| Sports medicine | 9 | 48 | 5.3 | 3 | 11 |
| Undersea and hyperbaric medicine | 8 | 23 | 2.9 | 1 | 7 |
| Family medicine | 710 | 17.546 | 24.7 | 2 | 103 |
| Clinical informatics | 6 | 45 | 7.5 | 3 | 12 |
| Geriatric medicine | 49 | 341 | 7.0 | 1 | 17 |
| Hospice and palliative medicine (multidisciplinary) | 180 | 1,547 | 8.6 | 2 | 22 |
| Sports medicine | 156 | 1,140 | 7.3 | 2 | 22 |
| nternal medicine | 586 | 12,382 | 21.1 | 4 | 174 |
| Adult congenital heart disease | 24 | 133 | 5.5 | 2 | 13 |
| Advanced heart failure and transplant cardiology | 82 | 441 | 5.4 | 1 | 15 |
| Cardiovascular disease | 255 | 3,576 | 14.0 | 3 | 64 |
| Clinical cardiac electrophysiology | 112 | 587 | 5.2 | 1 | 17 |
| Clinical informatics | 19 | 144 | 7.6 | 2 | 13 |
| Critical care medicine | 55 | 579 | 10.5 | 2 | 29 |
| Endocrinology, diabetes, and metabolism | 153 | 1,227 | 8.0 | 1 | 27 |
| Gastroenterology | 211 | 2,489 | 11.8 | 1 | 50 |
| Geriatric medicine | 114 | 828 | 7.3 | 1 | 19 |
| Hematology | 2 | 23 | 11.5 | 10 | 13 |
| Hematology Hematology and medical oncology | 172 | 2,415 | 14.0 | 3 | 54 |
| Infectious disease | 158 | 1,568 | 9.9 | 1 | 38 |
| Interventional cardiology | 170 | 871 | 5.1 | 1 | 17 |
| Nephrology | 152 | 1,505 | 9.9 | 2 | 35 |
| Medical oncology | 6 | 55 | 9.2 | 3 | 20 |
| Pulmonary disease | 20 | 122 | 6.1 | 2 | 15 |
| Pulmonary disease and critical care medicine | 188 | 2,607 | 13.9 | 4 | 47 |
| Rheumatology | 125 | 922 | 7.4 | 1 | 24 |
| Sleep medicine (multidisciplinary) | 89 | 573 | 6.4 | 2 | 15 |
| | 59 | 348 | 5.9 | 1 | 12 |
| Transplant hepatology | | | | 1 | |
| Medical genetics and genomics Modical biachemical genetics | 46 | 477 | 10.4 | | 51 |
| Medical biochemical genetics | 20 | 120 | 6.0 | 2 | 18 |
| Molecular genetic pathology (multidisciplinary) | 42 | 240 | 5.7 | 1 | 12 |
| Neurological surgery - Endovascular surgical neuroradiology | 116 | 2,134 | 18.4 2.5 | 6 2 | 45 |

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 | 170 | 5,233 | 30.8 | 7 | 96 |
| - Brain injury medicine | 1 | 3 | 3.0 | 3 | 3 |
| - Clinical neurophysiology | 93 | 903 | 9.7 | 2 | 24 |
| - Epilepsy | 85 | 736 | 8.7 | 3 | 22 |
| - Endovascular surgical neuroradiology | 2 | 7 | 3.5 | 2 | 5 |
| - Neurodevelopmental disabilities | 8 | 152 | 19.0 | 2 | 30 |
| - Neuromuscular medicine | 53 | 377 | 7.1 | 1 | 19 |
| - Vascular neurology | 109 | 740 | 6.8 | 1 | 19 |
| Child neurology | 77 | 1,294 | 16.8 | 2 | 46 |
| Nuclear medicine | 37 | 218 | 5.9 | 2 | 16 |
| Obstetrics and gynecology | 294 | 8,431 | 28.7 | 8 | 94 |
| - Female pelvic medicine and reconstructive surgery | 54 | 367 | 6.8 | 2 | 13 |
| - Gynecologic oncology | 63 | 538 | 8.5 | 1 | 19 |
| Maternal-fetal medicine | 100 | 1,188 | 11.9 | 3 | 28 |
| - Reproductive endocrinology and infertility | 49 | 410 | 8.4 | 2 | 22 |
| - Complex family planning | 26 | 128 | 4.9 | 2 | 10 |
| Ophthalmology | 125 | 3,196 | 25.6 | 8 | 70 |
| - Ophthalmic plastic and reconstructive surgery | 4 | 9 | 2.3 | 1 | 4 |
| Orthopaedic surgery | 201 | 6,009 | 29.9 | 8 | 84 |
| Adult reconstructive orthopaedics | 25 | 165 | 6.6 | 2 | 17 |
| Foot and ankle orthopaedics | 7 | 33 | 4.7 | 3 | 8 |
| Hand surgery | 73 | 507 | 6.9 | 2 | 19 |
| Musculoskeletal oncology | 12 | 36 | 3.0 | 1 | 6 |
| Orthopaedic sports medicine | 93 | 620 | 6.7 | 1 | 27 |
| Orthopaedic surgery of the spine | 16 | 86 | 5.4 | 3 | 11 |
| Orthopaedic trauma | 12 | 58 | 4.8 | 2 | 11 |
| Pediatric orthopaedics | 25 | 248 | 9.9 | 3 | 21 |
| Osteopathic neuromusculoskeletal medicine | 28 | 227 | 8.1 | 2 | 18 |
| Otolaryngology - head and neck surgery | 125 | 2,765 | 22.1 | 5 | 53 |
| - Neurotology | 26 | 135 | 5.2 | 1 | 10 |
| Pediatric otolaryngology | 31 | 279 | 9.0 | 4 | 21 |
| Pathology-anatomic and clinical | 144 | 4,176 | 29.0 | 9 | 88 |
| Blood banking/transfusion medicine | 52 | 298 | 5.7 | 1 | 14 |
| Clinical informatics | 11 | 73 | 6.6 | 4 | 10 |
| Chemical pathology | 4 | 8 | 2.0 | 1 | 4 |
| - Cytopathology | 93 | 536 | 5.8 | 2 | 16 |
| Forensic pathology | 45 | 290 | 6.4 | 1 | 25 |
| Hematopathology | 86 | 551 | 6.4 | 1 | 26 |
| Medical microbiology | 15 | 40 | 2.7 | 0 | 7 |
| Neuropathology | 38 | 175 | 4.6 | 2 | 9 |
| Pediatric pathology | 28 | 211 | 7.5 | 1 | 16 |
| Selective pathology | 109 | 787 | 7.2 | 1 | 30 |
| Pediatrics | 210 | 8,963 | 42.7 | 16 | 306 |
| Adolescent medicine | 32 | 210 | 6.6 | 2 | 16 |
| Child abuse pediatrics | 31 | 140 | 4.5 | 1 | 20 |
| Clinical informatics | 8 | 53 | 6.6 | 2 | 10 |
| Developmental-behavioral pediatrics | 44 | 280 | 6.4 | 1 | 15 |
| Neonatal-perinatal medicine | 107 | 1,611 | 15.1 | 3 | 46 |
| Pediatric cardiology | 64 | 1,011 | 16.9 | 4 | 52 |
| Pediatric cardiology Pediatric critical care medicine | 75 | - | 15.0 | 6 | 56 |
| Pediatric critical care medicine Pediatric emergency medicine | 55 | 1,127 | 20.2 | | 59 |
| 0 / | 72 | 1,111 | 7.9 | 6 2 | 28 |
| - Pediatric endocrinology - Pediatric gastroenterology | 67 | 571 688 | 10.3 | 3 | 33 |

Table G.8 Continued

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

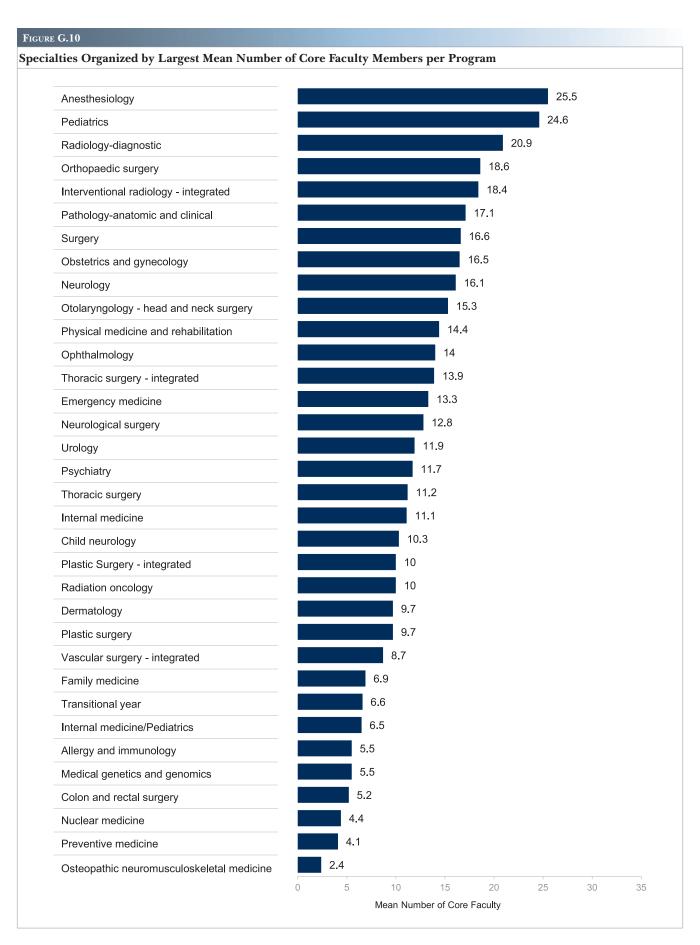
| Specialty | Total Programs | Total Number of Physician Faculty | Mean | MIN | MAX |
|---|----------------|--------------------------------------|--------------|-----|-----|
| - Pediatric hematology/oncology | 76 | 1,202 | 15.8 | 5 | 55 |
| Pediatric infectious diseases | 64 | 535 | 8.4 | 1 | 29 |
| Pediatric nephrology | 47 | 305 | 6.5 | 2 | 18 |
| Pediatric pulmonology | 56 | 482 | 8.6 | 3 | 25 |
| Pediatric rheumatology | 37 | 180 | 4.9 | 1 | 10 |
| Sports medicine | 17 | 125 | 7.4 | 2 | 18 |
| - Pediatric transplant hepatology | 17 | 92 | 5.4 | 2 | 11 |
| Pediatric hospital medicine | 54 | 777 | 14.4 | 3 | 31 |
| Physical medicine and rehabilitation | 98 | 2,117 | 21.6 | 5 | 56 |
| - Brain injury medicine | 25 | 153 | 6.1 | 2 | 16 |
| Neuromuscular medicine | 1 | 5 | 5.0 | 5 | 5 |
| Spinal cord injury medicine | 24 | 150 | 6.3 | 4 | 12 |
| Pediatric rehabilitation medicine | 22 | 148 | 6.7 | 3 | 14 |
| Sports medicine | 21 | 146 | 7.0 | 3 | 16 |
| Plastic surgery | 52 | 763 | 14.7 | 4 | 33 |
| Plastic surgery - integrated | 86 | 1,679 | 19.5 | 4 | 58 |
| - Craniofacial surgery | 8 | 23 | 2.9 | 0 | 5 |
| - Hand surgery | 17 | 101 | 5.9 | 3 | 13 |
| Preventive medicine | 72 | 754 | 10.5 | 2 | 35 |
| · Medical toxicology | 1 | 6 | 6.0 | 6 | 6 |
| · Undersea and hyperbaric medicine | 1 | 5 | 5.0 | 5 | 5 |
| Psychiatry | 287 | 6,348 | 22.1 | 4 | 74 |
| Addiction medicine (multidisciplinary) | 85 | 730 | 8.6 | 2 | 17 |
| Addiction psychiatry | 53 | 371 | 7.0 | 2 | 17 |
| · Child and adolescent psychiatry | 146 | 1,463 | 10.0 | 1 | 35 |
| Forensic psychiatry | 49 | 289 | 5.9 | 1 | 13 |
| Geriatric psychiatry | 64 | 407 | 6.4 | 1 | 13 |
| Consultation-liaison psychiatry | 64 | 415 | 6.5 | 2 | 29 |
| Radiation oncology | 91 | 1,184 | 13.0 | 4 | 57 |
| Radiology-diagnostic | 196 | 6,742 | 34.4 | 8 | 108 |
| - Abdominal radiology | 13 | 137 | 10.5 | 4 | 21 |
| - Endovascular surgical neuroradiology | 3 | 9 | 3.0 | 2 | 4 |
| · Musculoskeletal radiology | 20 | 138 | 6.9 | 2 | 20 |
| · Neuroradiology | 89 | 864 | 9.7 | 1 | 33 |
| Nuclear radiology | 18 | 96 | 5.3 | 1 | 19 |
| · Pediatric radiology | 48 | 579 | 12.1 | 2 | 38 |
| Interventional radiology - independent | 95 | 822 | 8.7 | 3 | 26 |
| _: | 92 | 2,396 | 26.0 | 6 | 90 |
| Interventional radiology - integrated | 344 | | | 4 | 139 |
| Surgery Complex general surgical oncology | 31 | 10,719 527 | 31.2 17.0 | 8 | 34 |
| Hand surgery | 2 | 23 | 11.5 | 10 | 13 |
| Pediatric surgery | 51 | 487 | 9.5 | 3 | 22 |
| Surgical critical care | | | | 2 | |
| 0 | 145 | 1,410 | 9.7 | | 24 |
| Vascular surgery | 115 | 852 | 7.4 | 2 | 19 |
| Vascular surgery - integrated | 67 | 900 | 13.4 | 3 | 39 |
| Thoracic surgery | 74 | 1,036 | 14.0 | 4 | 33 |
| Congenital cardiac surgery | 15 | 61 | 4.1 | 1 | 10 |
| Thoracic surgery - integrated | 33 | 751 | 22.8 | 9 | 90 |
| Jrology | 145 | 2,570 | 17.7 | 5 | 46 |
| Female pelvic medicine and reconstructive surgery | 15 | 118 | 7.9 | 3 | 14 |
| - Pediatric urology | 26 | 134 | 5.2 | 2 | 11 |
| Transitional year | 172 | 2,158 | 12.5 | 2 | 64 |
| Internal medicine/Pediatrics | 79 | 695 | 8.8 | 1 | 21 |

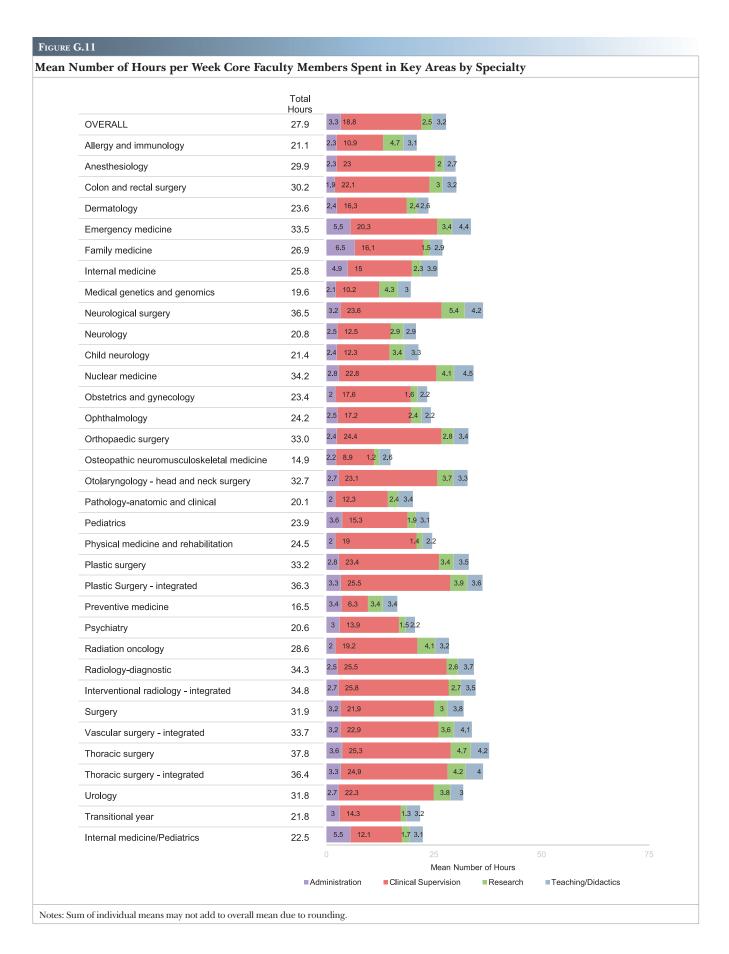
Notes: Excluding program directors. Total number of physician faculty does not represent the count of distinct people as individuals may be listed in more than one program. Total number of distinct physician faculty across all programs = 157,390. Pipeline specialties are highlighted.

TABLE G.9

| Specialty | Total Programs | Total Number of Core Faculty | Mean | MIN | MAX |
|---|----------------|---------------------------------|------|-----|-----|
| OVERALL | 5,486 | 70,806 | 12.9 | 0 | 97 |
| Allergy and immunology | 82 | 447 | 5.5 | 1 | 14 |
| Anesthesiology | 161 | 4,102 | 25.5 | 4 | 97 |
| Colon and rectal surgery | 66 | 340 | 5.2 | 2 | 16 |
| Dermatology | 144 | 1,393 | 9.7 | 1 | 25 |
| Emergency medicine | 276 | 3,667 | 13.3 | 3 | 70 |
| Family medicine | 710 | 4,912 | 6.9 | 1 | 27 |
| Internal medicine | 586 | 6,489 | 11.1 | 2 | 57 |
| Medical genetics and genomics | 46 | 253 | 5.5 | 1 | 22 |
| Neurological surgery | 116 | 1,489 | 12.8 | 4 | 27 |
| Neurology | 170 | 2,733 | 16.1 | 3 | 73 |
| Child neurology | 77 | 791 | 10.3 | 2 | 35 |
| Nuclear medicine | 37 | 164 | 4.4 | 0 | 10 |
| Obstetrics and gynecology | 294 | 4,847 | 16.5 | 2 | 62 |
| Ophthalmology | 125 | 1,744 | 14.0 | 3 | 38 |
| Orthopaedic surgery | 201 | 3,736 | 18.6 | 2 | 54 |
| Osteopathic neuromusculoskeletal medicine | 28 | 68 | 2.4 | 0 | 5 |
| Otolaryngology - head and neck surgery | 125 | 1,917 | 15.3 | 3 | 43 |
| Pathology-anatomic and clinical | 144 | 2,457 | 17.1 | 3 | 65 |
| Pediatrics | 210 | 5,168 | 24.6 | 4 | 67 |
| Physical medicine and rehabilitation | 98 | 1,409 | 14.4 | 4 | 43 |
| Plastic surgery | 52 | 502 | 9.7 | 3 | 33 |
| Plastic Surgery - integrated | 86 | 861 | 10.0 | 3 | 33 |
| Preventive medicine | 72 | 296 | 4.1 | 0 | 9 |
| Psychiatry | 287 | 3,351 | 11.7 | 2 | 47 |
| Radiation oncology | 91 | 913 | 10.0 | 2 | 44 |
| Radiology-diagnostic | 196 | 4,094 | 20.9 | 5 | 81 |
| Interventional radiology - integrated | 92 | 1,696 | 18.4 | 5 | 43 |
| Surgery | 344 | 5,726 | 16.6 | 2 | 66 |
| Vascular surgery - integrated | 67 | 581 | 8.7 | 3 | 33 |
| Thoracic surgery | 74 | 826 | 11.2 | 3 | 30 |
| Thoracic surgery - integrated | 33 | 458 | 13.9 | 6 | 29 |
| Urology | 145 | 1,726 | 11.9 | 2 | 35 |
| Transitional year | 172 | 1,135 | 6.6 | 1 | 21 |
| Internal medicine/Pediatrics | 79 | 515 | 6.5 | 1 | 18 |

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 = 66,943.





Program Activities

This section summarizes the use of ambulatory and/or non-hospital settings, as well as what residents are taught about pain management, including the recognition of the signs of addiction, by specialty and subspecialty programs during the 2020-2021 academic year.

Use of Ambulatory and/or Non-Hospital Settings

Across all programs, 92.8% of programs reported using ambulatory and/or non-hospital settings. The following ambulatory and/or non-hospital settings were used by the highest percentage of specialty programs:

- Ambulatory/outpatient settings (78.4%)
- Faculty ambulatory practice (62.6%)
- Hospital-based continuity clinic (61.4%)
- Private physician's offices (54.2%)

The percentage of programs using each type of setting varies significantly across pipeline specialties. For exam-

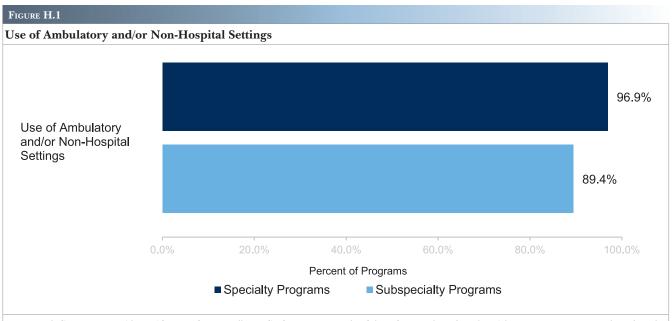
ple, of those programs that use ambulatory/non-hospital settings, 14.7% of pathology-anatomic and clinical programs reported using a hospital-based continuity clinic while 94.4 % of child neurology programs reported using a hospital-based continuity clinic.

Pain Management and Recognition of Addiction

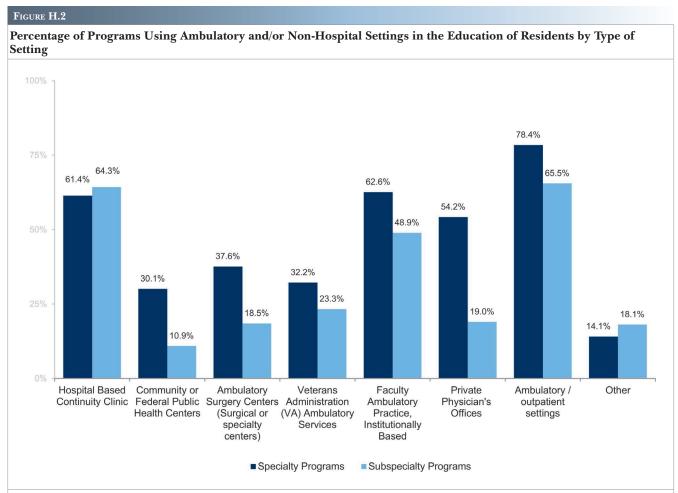
The following education types were offered to manage pain and recognize addiction by the highest percentage of specialty programs:

- Opioid prescribing (87.9%)
- Pharmacologic pain management (87.7%)
- Recognition of dependence and addiction (86.9%)
- Non-pharmacologic pain management (80.9%)

A similar trend can be seen in subspecialty programs. A



Notes: Excluding programs with 0 residents on duty. Not all accredited programs completed these data. Total number of specialty programs = 5,060. Total number of subspecialty programs = 5,930.



Notes: Excluding programs with 0 residents on duty. Not all accredited programs completed these data. Excluding programs responding "No" to using ambulatory and/or non-hospital settings in the education of residents. Total number of specialty programs = 4,901. Total number of subspecialty programs = 5,300. Programs that responded "Yes" to using ambulatory and/or non-hospital settings in the education of residents can select more than one type.

| | ettings by Specialty and Subspecialty | | | | | | | |
|--|---------------------------------------|---|----------------|-----|--------------|--|--|--|
| | | Use Ambulatory and/or Non-Hospital Settings | | | | | | |
| Specialty | Total Programs | Yes | % | No | % | | | |
| OVERALL | 10,990 | 10,201 | 92.8% | 789 | 7.2% | | | |
| TOTAL PIPELINE | 4,930 | 4,772 | 96.8% | 158 | 3.2% | | | |
| Allergy and immunology | 80 | 78 | 97.5% | 2 | 2.5% | | | |
| Anesthesiology | 159 | 151 | 95.0% | 8 | 5.0% | | | |
| - Adult cardiothoracic anesthesiology | 69 | 11 | 15.9% | 58 | 84.1% | | | |
| - Clinical informatics | 1 | 1 | 100.0% | 0 | 0.0% | | | |
| - Critical care medicine | 55 | 4 | 7.3% | 51 | 92.7% | | | |
| - Regional anesthesiology and acute pain medicine | 29 | 26 | 89.7% | 3 | 10.3% | | | |
| - Obstetric anesthesiology | 34 | 26 | 76.5% | 8 | 23.5% | | | |
| - Pain medicine (multidisciplinary) | 107 | 107 | 100.0% | 0 | 0.0% | | | |
| - Pediatric anesthesiology | 49 | 39 | 79.6% | 10 | 20.4% | | | |
| Colon and rectal surgery | 63 | 62 | 98.4% | 1 | 1.6% | | | |
| Dermatology | 143 | 142 | 99.3% | 1 | 0.7% | | | |
| - Dermatology (multidisciplinary) | 49 | 41 | 83.7% | 8 | 16.3% | | | |
| - Micrographic surgery and dermatologic oncology | 72 | 70 | 97.2% | 2 | 2.8% | | | |
| Emergency medicine | 255 | 187 | 73.3% | 68 | 26.7% | | | |
| - Clinical informatics | 5 | 4 | 80.0% | 1 | 20.7% | | | |
| - Clinical informatics - Emergency medical services | 58 | 56 | 96.6% | 2 | 3.4% | | | |
| - Medical toxicology | 26 | 26 | 100.0% | 0 | 0.0% | | | |
| - Medical toxicology - Pediatric emergency medicine | 26 | 23 | 88.5% | 3 | 11.5% | | | |
| - Sports medicine | 8 | 8 | 100.0% | 0 | 0.0% | | | |
| - Undersea and hyperbaric medicine | 7 | | 100.0% | 0 | 0.0% | | | |
| Family medicine | 678 | 677 | 99.9% | 1 | 0.0% | | | |
| - Clinical informatics | 3 | 3 | 100.0% | 0 | 0.1% | | | |
| - Geriatric medicine | 27 | 27 | 100.0% | 0 | 0.0% | | | |
| - Hospice and palliative medicine (multidisciplinary) | 144 | 144 | 100.0% | 0 | 0.0% | | | |
| | 143 | 143 | 100.0% | 0 | 0.0% | | | |
| - Sports medicine Internal medicine | 548 | 548 | 100.0% | 0 | 0.0% | | | |
| - Adult congenital heart disease | 18 | 18 | 100.0% | 0 | | | | |
| | 57 | 56 | | 1 | 0.0% | | | |
| - Advanced heart failure and transplant cardiology - Cardiovascular disease | 247 | | 98.2% | | | | | |
| | | 245 94 | 99.2% 97.9% | 2 2 | 0.8% 2.1% | | | |
| - Clinical cardiac electrophysiology | 96 | | | | | | | |
| - Clinical informatics | 13 | 13 | 100.0% | 0 | 0.0% | | | |
| - Critical care medicine | 45 | 10 | 22.2% | 35 | 77.8% | | | |
| - Endocrinology, diabetes, and metabolism | 148 | 148 | 100.0% | 0 | 0.0% | | | |
| - Gastroenterology | 204 | 204 | 100.0% | 0 | 0.0% | | | |
| - Geriatric medicine | 94 | 94 | 100.0% | 0 | 0.0% | | | |
| - Hematology | 2 | 2 | 100.0% | 0 | 0.0% | | | |
| - Hematology and medical oncology | 163 | 163 | | 0 | 0.0% | | | |
| - Infectious disease | 142 | 142 | 100.0% | 0 | 0.0% | | | |
| - Interventional cardiology | 162 | 160 | 98.8% | 2 | 1.2% | | | |
| - Nephrology | 143 | 143 | 100.0% | 0 | 0.0% | | | |
| - Medical oncology | 6 | 6 | 100.0% | 0 | 0.0% | | | |
| - Pulmonary disease | 19 | 19 | 100.0% | 0 | 0.0% | | | |
| - Pulmonary disease and critical care medicine | 178 | 177 | 99.4% | 1 | 0.6% | | | |
| Rheumatology | 122 | 122 | 100.0% | 0 | 0.0% | | | |
| - Sleep medicine (multidisciplinary) | 80 | 79 | 98.8% | 1 | 1.3% | | | |
| - Transplant hepatology | 32 | 32 | 100.0% | 0 | 0.0% | | | |
| Medical genetics and genomics | 33 | 33 | 100.0% | 0 | 0.0% | | | |
| - Medical biochemical genetics | 10 | 10 | 100.0% | 0 | 0.0% | | | |
| - Molecular genetic pathology (multidisciplinary) | 34 | 23 | 67.6% | 11 | 32.4% | | | |
| Neurological surgery | 116 | 116 | 100.0% | 0 | 0.0% | | | |
| - Endovascular surgical neuroradiology | 1 | 1 | 100.0% | 0 | 0.0% | | | |

| Use of Ambulatory and/or Non-Hospital | | 1 | Use Ambulatory and/or | Non-Hospital Saut | nac | |
|---|----------------|-----|-----------------------|-------------------|-------|--|
| 0 11 | T . 1 D | | • | * | 1 | |
| Specialty | Total Programs | Yes | % | No | % | |
| Neurology | 159 | 159 | 100.0% | 0 | 0.0% | |
| - Brain injury medicine | 1 | 1 | 100.0% | 0 | 0.0% | |
| - Clinical neurophysiology | 64 | 62 | 96.9% | 2 | 3.1% | |
| - Epilepsy | 63 | 62 | 98.4% | 1 | 1.6% | |
| - Endovascular surgical neuroradiology | 2 | 2 | 100.0% | 0 | 0.0% | |
| - Neurodevelopmental disabilities | 7 | 7 | 100.0% | 0 | 0.0% | |
| - Neuromuscular medicine | 38 | 36 | 94.7% | 2 | 5.3% | |
| - Vascular neurology | 81 | 81 | 100.0% | 0 | 0.0% | |
| Child neurology | 72 | 71 | 98.6% | 1 | 1.4% | |
| Nuclear medicine | 26 | 21 | 80.8% | 5 | 19.2% | |
| Obstetrics and gynecology | 284 | 284 | 100.0% | 0 | 0.0% | |
| - Female pelvic medicine and reconstructive surgery | 51 | 51 | 100.0% | 0 | 0.0% | |
| - Gynecologic oncology | 60 | 60 | 100.0% | 0 | 0.0% | |
| - Maternal-fetal medicine | 94 | 93 | 98.9% | 1 | 1.1% | |
| - Reproductive endocrinology and infertility | 49 | 49 | 100.0% | 0 | 0.0% | |
| - Complex family planning | 2 | 2 | 100.0% | 0 | 0.0% | |
| Ophthalmology | 122 | 121 | 99.2% | 1 | 0.8% | |
| - Ophthalmic plastic and reconstructive surgery | 3 | 3 | 100.0% | 0 | 0.0% | |
| Orthopaedic surgery | 199 | 198 | 99.5% | 1 | 0.5% | |
| - Adult reconstructive orthopaedics | 24 | 22 | 91.7% | 2 | 8.3% | |
| - Foot and ankle orthopaedics | 7 | 7 | 100.0% | 0 | 0.0% | |
| - Hand surgery | 70 | 70 | 100.0% | 0 | 0.0% | |
| - Musculoskeletal oncology | 11 | 10 | 90.9% | 1 | 9.1% | |
| - Orthopaedic sports medicine | 87 | 86 | 98.9% | 1 | 1.1% | |
| - Orthopaedic surgery of the spine | 15 | 15 | 100.0% | 0 | 0.0% | |
| - Orthopaedic trauma | 11 | 11 | 100.0% | 0 | 0.0% | |
| - Pediatric orthopaedics | 19 | 16 | 84.2% | 3 | 15.8% | |
| Osteopathic neuromusculoskeletal medicine | 19 | 19 | 100.0% | 0 | 0.0% | |
| Otolaryngology - head and neck surgery | 124 | 123 | 99.2% | 1 | 0.8% | |
| - Neurotology | 24 | 23 | 95.8% | 1 | 4.2% | |
| - Pediatric otolaryngology | 23 | 23 | 100.0% | 0 | 0.0% | |
| Pathology-anatomic and clinical | 142 | 116 | 81.7% | 26 | 18.3% | |
| - Blood banking/transfusion medicine | 37 | 33 | 89.2% | 4 | 10.8% | |
| - Clinical informatics | 7 | 6 | 85.7% | 1 | 14.3% | |
| - Chemical pathology | 0 | 0 | N/A | 0 | N/A | |
| - Cytopathology | 80 | 49 | 61.3% | 31 | 38.8% | |
| - Forensic pathology | 28 | 16 | 57.1% | 12 | 42.9% | |
| - Hematopathology | 69 | 31 | 44.9% | 38 | 55.1% | |
| - Medical microbiology | 14 | 7 | 50.0% | 7 | 50.0% | |
| - Neuropathology | 32 | 12 | 37.5% | 20 | 62.5% | |
| - Pediatric pathology | 15 | 8 | 53.3% | 7 | 46.7% | |
| - Selective pathology | 78 | 34 | 43.6% | 44 | 56.4% | |
| Pediatrics | 209 | 209 | 100.0% | 0 | 0.0% | |
| - Adolescent medicine | 31 | 31 | 100.0% | 0 | 0.0% | |
| Child abuse pediatrics | 27 | 27 | 100.0% | 0 | 0.0% | |
| - Clinical informatics | 7 | 7 | 100.0% | 0 | 0.0% | |
| Developmental-behavioral pediatrics | 38 | 38 | 100.0% | 0 | 0.0% | |
| Neonatal-perinatal medicine | 101 | 100 | 99.0% | 1 | 1.0% | |
| Pediatric cardiology | 61 | 61 | 100.0% | 0 | 0.0% | |
| - Pediatric critical care medicine | 72 | 9 | 12.5% | 63 | 87.5% | |
| - Pediatric emergency medicine | 53 | 46 | 86.8% | 7 | 13.2% | |
| - Pediatric endocrinology | 65 | 64 | 98.5% | 1 | 1.5% | |
| - Pediatric gastroenterology | 64 | 62 | 96.9% | 2 | 3.1% | |

| G. 3 | TTO | • | | - |
|-------|-----|------|-------|---|
| TABLE | H 3 | Coni | 11110 | 7 |
| | | | | |

| | | τ | Jse Ambulatory and/or | Non-Hospital Settin | gs |
|---|----------------|-----|-----------------------|---------------------|-------------|
| Specialty | Total Programs | Yes | % | No | % |
| Pediatric hematology/oncology | 71 | 71 | 100.0% | 0 | 0.0% |
| Pediatric infectious diseases | 55 | 54 | 98.2% | 1 | 1.8% |
| Pediatric nephrology | 38 | 38 | 100.0% | 0 | 0.0% |
| Pediatric pulmonology | 49 | 49 | 100.0% | 0 | 0.0% |
| Pediatric rheumatology | 32 | 32 | 100.0% | 0 | 0.0% |
| Sports medicine | 15 | 15 | 100.0% | 0 | 0.0% |
| Pediatric transplant hepatology | 11 | 11 | 100.0% | 0 | 0.0% |
| - Pediatric hospital medicine | 35 | 21 | 60.0% | 14 | 40.0% |
| Physical medicine and rehabilitation | 91 | 91 | 100.0% | 0 | 0.0% |
| Brain injury medicine | 16 | 16 | 100.0% | 0 | 0.0% |
| Neuromuscular medicine | 1 | 1 | 100.0% | 0 | 0.0% |
| Spinal cord injury medicine | 15 | 13 | 86.7% | 2 | 13.3% |
| Pediatric rehabilitation medicine | 19 | 19 | 100.0% | 0 | 0.0% |
| Sports medicine | 19 | 19 | 100.0% | 0 | 0.0% |
| Plastic surgery | 49 | 49 | 100.0% | 0 | 0.0% |
| Plastic surgery - integrated | 82 | 82 | 100.0% | 0 | 0.0% |
| Craniofacial surgery | 6 | 4 | 66.7% | 2 | 33.3% |
| <u>0</u> | 16 | 16 | 100.0% | 0 | 0.0% |
| Hand surgery Preventive medicine | 66 | 66 | 100.0% | 0 | |
| | | | | | 0.0% |
| Medical toxicology | 1 | 1 | 100.0% | 0 | 0.0% |
| Undersea and hyperbaric medicine | 1 | 1 | 100.0% | 0 | 0.0% |
| Psychiatry | 263 | 262 | 99.6% | 1 | 0.4% |
| Addiction medicine (multidisciplinary) | 64 | 64 | 100.0% | 0 | 0.0% |
| Addiction psychiatry | 41 | 41 | 100.0% | 0 | 0.0% |
| Child and adolescent psychiatry | 138 | 138 | 100.0% | 0 | 0.0% |
| Forensic psychiatry | 35 | 35 | 100.0% | 0 | 0.0% |
| Geriatric psychiatry | 28 | 28 | 100.0% | 0 | 0.0% |
| Consultation-liaison psychiatry | 44 | 44 | 100.0% | 0 | 0.0% |
| Radiation oncology | 91 | 87 | 95.6% | 4 | 4.4% |
| Radiology-diagnostic | 194 | 167 | 86.1% | 27 | 13.9% |
| Abdominal radiology | 12 | 7 | 58.3% | 5 | 41.7% |
| Endovascular surgical neuroradiology | 1 | 0 | 0.0% | 1 | 100.0% |
| Musculoskeletal radiology | 18 | 16 | 88.9% | 2 | 11.1% |
| Neuroradiology | 70 | 55 | 78.6% | 15 | 21.4% |
| Nuclear radiology | 6 | 2 | 33.3% | 4 | 66.7% |
| Pediatric radiology | 25 | 18 | 72.0% | 7 | 28.0% |
| Interventional radiology - independent | 80 | 76 | 95.0% | 4 | 5.0% |
| nterventional radiology - integrated | 85 | 82 | 96.5% | 3 | 3.5% |
| Surgery | 328 | 324 | 98.8% | 4 | 1.2% |
| Complex general surgical oncology | 29 | 29 | 100.0% | 0 | 0.0% |
| Hand surgery | 1 | 1 | 100.0% | 0 | 0.0% |
| Pediatric surgery | 49 | 46 | 93.9% | 3 | 6.1% |
| Surgical critical care | 129 | 21 | 16.3% | 108 | 83.7% |
| Vascular surgery | 106 | 102 | 96.2% | 4 | 3.8% |
| Vascular surgery - integrated | 62 | 61 | 98.4% | 1 | 1.6% |
| Thoracic surgery | 67 | 65 | 97.0% | 2 | 3.0% |
| Congenital cardiac surgery | 10 | 5 | 50.0% | 5 | 50.0% |
| Fhoracic surgery - integrated | 27 | 26 | 96.3% | 1 | 3.7% |
| Jrology | 145 | 145 | 100.0% | 0 | 0.0% |
| Female pelvic medicine and reconstructive surgery | 14 | 14 | 100.0% | 0 | 0.0% |
| Pediatric urology | 17 | 17 | 100.0% | 0 | 0.0% |
| Fransitional year | 0 | 0 | N/A | 0 | 0.0% N/A |
| Internal medicine/Pediatrics | 79 | 79 | 100.0% | 0 | 0.0% |

Notes: Pipeline specialties are highlighted. Excluding programs with 0 residents on duty. Not all accredited programs completed these data. Total number of specialty programs = 5,060. Total number of subspecialty programs = 5,930.

TABLE H.4

Use of Ambulatory and/or Non-Hospital Settings by Type of Setting (Most Common Selections) by Pipeline Specialty

| | Total Programs | | | | Type of | f Setting | | | |
|---|---|-------|-------------|-------|------------------------|-----------|-----------|-------|---------------------|
| | Using Ambulatory and/ or Non-Hospital | | nt Settings | | al Based ity Clinic | | mbulatory | | 'hysician's fice |
| Pipeline Specialty | Settings | # | % | # | % | # | % | # | % |
| TOTAL PIPELINE | 4,772 | 3,760 | 78.8% | 2,926 | 61.3% | 2,966 | 62.2% | 2,591 | 54.3% |
| Anesthesiology | 151 | 109 | 72.2% | 35 | 23.2% | 52 | 34.4% | 22 | 14.6% |
| Dermatology | 142 | 113 | 79.6% | 100 | 70.4% | 97 | 68.3% | 79 | 55.6% |
| Emergency medicine | 187 | 80 | 42.8% | 35 | 18.7% | 48 | 25.7% | 54 | 28.9% |
| Family medicine | 677 | 645 | 95.3% | 425 | 62.8% | 391 | 57.8% | 614 | 90.7% |
| Internal medicine | 548 | 462 | 84.3% | 421 | 76.8% | 381 | 69.5% | 397 | 72.4% |
| Medical genetics and genomics | 33 | 26 | 78.8% | 21 | 63.6% | 16 | 48.5% | 3 | 9.1% |
| Neurological surgery | 116 | 72 | 62.1% | 62 | 53.4% | 83 | 71.6% | 26 | 22.4% |
| Neurology | 159 | 116 | 73.0% | 134 | 84.3% | 119 | 74.8% | 54 | 34.0% |
| Child neurology | 71 | 61 | 85.9% | 67 | 94.4% | 47 | 66.2% | 11 | 15.5% |
| Nuclear medicine | 21 | 15 | 71.4% | 8 | 38.1% | 5 | 23.8% | 1 | 4.8% |
| Obstetrics and gynecology | 284 | 214 | 75.4% | 246 | 86.6% | 233 | 82.0% | 190 | 66.9% |
| Ophthalmology | 121 | 92 | 76.0% | 82 | 67.8% | 88 | 72.7% | 69 | 57.0% |
| Orthopaedic surgery | 198 | 157 | 79.3% | 105 | 53.0% | 143 | 72.2% | 136 | 68.7% |
| Osteopathic neuromusculoskeletal medicine | 19 | 19 | 100.0% | 7 | 36.8% | 15 | 78.9% | 19 | 100.0% |
| Otolaryngology - head and neck surgery | 123 | 92 | 74.8% | 62 | 50.4% | 91 | 74.0% | 67 | 54.5% |
| Pathology-anatomic and clinical | 116 | 35 | 30.2% | 17 | 14.7% | 13 | 11.2% | 19 | 16.4% |
| Pediatrics | 209 | 194 | 92.8% | 160 | 76.6% | 157 | 75.1% | 174 | 83.3% |
| Physical medicine and rehabilitation | 91 | 86 | 94.5% | 61 | 67.0% | 80 | 87.9% | 52 | 57.1% |
| Plastic surgery | 49 | 41 | 83.7% | 32 | 65.3% | 36 | 73.5% | 42 | 85.7% |
| Plastic Surgery - integrated | 82 | 64 | 78.0% | 50 | 61.0% | 62 | 75.6% | 67 | 81.7% |
| Preventive medicine | 66 | 61 | 92.4% | 35 | 53.0% | 49 | 74.2% | 29 | 43.9% |
| Psychiatry | 262 | 232 | 88.5% | 189 | 72.1% | 119 | 45.4% | 64 | 24.4% |
| Radiation oncology | 87 | 69 | 79.3% | 39 | 44.8% | 45 | 51.7% | 5 | 5.7% |
| Radiology-diagnostic | 167 | 133 | 79.6% | 51 | 30.5% | 54 | 32.3% | 28 | 16.8% |
| Interventional radiology - independent | 76 | 47 | 61.8% | 40 | 52.6% | 23 | 30.3% | 10 | 13.2% |
| Interventional radiology - integrated | 82 | 62 | 75.6% | 51 | 62.2% | 29 | 35.4% | 12 | 14.6% |
| Surgery | 324 | 232 | 71.6% | 194 | 59.9% | 249 | 76.9% | 206 | 63.6% |
| Vascular surgery - integrated | 61 | 40 | 65.6% | 30 | 49.2% | 46 | 75.4% | 21 | 34.4% |
| Thoracic surgery - integrated | 26 | 12 | 46.2% | 13 | 50.0% | 23 | 88.5% | 4 | 15.4% |
| Urology | 145 | 103 | 71.0% | 86 | 59.3% | 109 | 75.2% | 61 | 42.1% |
| Internal medicine/Pediatrics | 79 | 76 | 96.2% | 68 | 86.1% | 63 | 79.7% | 55 | 69.6% |

Notes: Excluding programs with 0 residents on duty. Not all accredited programs completed these data. Excluding programs responding "No" to using ambulatory and/or non-hospital settings in the education of residents. Programs that responded "Yes" to using ambulatory and/or non-hospital settings in the education of residents can select more than one type.

TABLE H.5 Use of Ambulatory and/or Non-Hospital Settings by Type of Setting (Least Common Selections) by Pipeline Specialty

| | | | | | Type of | Setting | | | |
|---|--|-------|-------------|-------|-------------------|---------|---------------------------------|-------|-------|
| | Total Programs Using Ambulatory and/ or Non-Hospital | | ory Surgery | | bulatory vices | Federa | unity or l Public Centers | Other | |
| Pipeline Specialty | Settings | # | % | # | % | # | % | # | % |
| TOTAL PIPELINE | 4,772 | 1,811 | 38.0% | 1,543 | 32.3% | 1,470 | 30.8% | 689 | 14.4% |
| Anesthesiology | 151 | 109 | 72.2% | 35 | 23.2% | 3 | 2.0% | 14 | 9.3% |
| Dermatology | 142 | 36 | 25.4% | 80 | 56.3% | 36 | 25.4% | 11 | 7.7% |
| Emergency medicine | 187 | 26 | 13.9% | 14 | 7.5% | 12 | 6.4% | 116 | 62.0% |
| Family medicine | 677 | 312 | 46.1% | 130 | 19.2% | 454 | 67.1% | 134 | 19.8% |
| Internal medicine | 548 | 36 | 6.6% | 169 | 30.8% | 190 | 34.7% | 56 | 10.2% |
| Medical genetics and genomics | 33 | 1 | 3.0% | 3 | 9.1% | 3 | 9.1% | 2 | 6.1% |
| Neurological surgery | 116 | 28 | 24.1% | 38 | 32.8% | 8 | 6.9% | 7 | 6.0% |
| Neurology | 159 | 6 | 3.8% | 75 | 47.2% | 20 | 12.6% | 10 | 6.3% |
| Child neurology | 71 | 6 | 8.5% | 32 | 45.1% | 15 | 21.1% | 2 | 2.8% |
| Nuclear medicine | 21 | 0 | 0.0% | 7 | 33.3% | 2 | 9.5% | 2 | 9.5% |
| Obstetrics and gynecology | 284 | 181 | 63.7% | 36 | 12.7% | 100 | 35.2% | 24 | 8.5% |
| Ophthalmology | 121 | 99 | 81.8% | 88 | 72.7% | 23 | 19.0% | 7 | 5.8% |
| Orthopaedic surgery | 198 | 181 | 91.4% | 68 | 34.3% | 20 | 10.1% | 10 | 5.1% |
| Osteopathic neuromusculoskeletal medicine | 19 | 6 | 31.6% | 2 | 10.5% | 4 | 21.1% | 0 | 0.0% |
| Otolaryngology - head and neck surgery | 123 | 102 | 82.9% | 63 | 51.2% | 17 | 13.8% | 1 | 0.8% |
| Pathology-anatomic and clinical | 116 | 22 | 19.0% | 21 | 18.1% | 10 | 8.6% | 88 | 75.9% |
| Pediatrics | 209 | 33 | 15.8% | 0 | 0.0% | 140 | 67.0% | 39 | 18.7% |
| Physical medicine and rehabilitation | 91 | 44 | 48.4% | 64 | 70.3% | 14 | 15.4% | 6 | 6.6% |
| Plastic surgery | 49 | 44 | 89.8% | 21 | 42.9% | 6 | 12.2% | 0 | 0.0% |
| Plastic surgery - integrated | 82 | 76 | 92.7% | 46 | 56.1% | 10 | 12.2% | 1 | 1.2% |
| Preventive medicine | 66 | 7 | 10.6% | 35 | 53.0% | 46 | 69.7% | 31 | 47.0% |
| Psychiatry | 262 | 6 | 2.3% | 151 | 57.6% | 208 | 79.4% | 53 | 20.2% |
| Radiation oncology | 87 | 12 | 13.8% | 22 | 25.3% | 4 | 4.6% | 5 | 5.7% |
| Radiology-diagnostic | 167 | 37 | 22.2% | 48 | 28.7% | 16 | 9.6% | 36 | 21.6% |
| Interventional radiology - independent | 76 | 19 | 25.0% | 19 | 25.0% | 4 | 5.3% | 3 | 3.9% |
| Interventional radiology - integrated | 82 | 18 | 22.0% | 26 | 31.7% | 6 | 7.3% | 6 | 7.3% |
| Surgery | 324 | 225 | 69.4% | 90 | 27.8% | 28 | 8.6% | 9 | 2.8% |
| Vascular surgery - integrated | 61 | 28 | 45.9% | 33 | 54.1% | 4 | 6.6% | 0 | 0.0% |
| Thoracic surgery - integrated | 26 | 5 | 19.2% | 15 | 57.7% | 1 | 3.8% | 0 | 0.0% |
| Urology | 145 | 98 | 67.6% | 70 | 48.3% | 18 | 12.4% | 6 | 4.1% |
| Internal medicine/Pediatrics | 79 | 8 | 10.1% | 42 | 53.2% | 48 | 60.8% | 10 | 12.7% |

Notes: Excluding programs with 0 residents on duty. Not all accredited programs completed these data. Excluding programs responding "No" to using ambulatory and/ or non-hospital settings in the education of residents. Programs that responded "Yes" to using ambulatory and/or non-hospital settings in the education of residents can select more than one type.

TABLE H.6 Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education and by Specialty and Subspecialty

| | Number of | | acologic Pain gement | | ologic Pain gement | Opioid Prescribing | | |
|---|-----------|-------|-------------------------|----------|-----------------------|--------------------|----------------|--|
| Specialty | Programs | # | % | # | % | # | % | |
| OVERALL | 12,366 | 9,330 | 75.4% | 10,025 | 81.1% | 9,671 | 78.2% | |
| FOTAL PIPELINE | 5,154 | 4,195 | 81.4% | 4,535 | 88.0% | 4,538 | 88.0% | |
| Allergy and immunology | 81 | 36 | 44.4% | 41 | 50.6% | 43 | 53.1% | |
| Anesthesiology | 161 | 156 | 96.9% | 161 | 100.0% | 154 | 95.7% | |
| - Adult cardiothoracic anesthesiology | 73 | 54 | 74.0% | 68 | 93.2% | 40 | 54.8% | |
| - Clinical informatics | 1 | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | |
| - Critical care medicine | 63 | 55 | 87.3% | 62 | 98.4% | 46 | 73.09 | |
| - Regional anesthesiology and acute pain medicine | 38 | 36 | 94.7% | 36 | 94.7% | 38 | 100.09 | |
| - Obstetric anesthesiology | 41 | 34 | 82.9% | 40 | 97.6% | 32 | 78.0% | |
| - Pain medicine (multidisciplinary) | 109 | 108 | 99.1% | 106 | 97.2% | 109 | 100.09 | |
| - Pediatric anesthesiology | 60 | 56 | 93.3% | 60 | 100.0% | 47 | 78.3% | |
| Colon and rectal surgery | 65 | 43 | 66.2% | 58 | 89.2% | 61 | 93.8% | |
| Dermatology | 144 | 96 | 66.7% | 108 | 75.0% | 101 | 70.1% | |
| - Dermatopathology (multidisciplinary) | 56 | 9 | 16.1% | 12 | 21.4% | 16 | 28.6% | |
| - Micrographic surgery and dermatologic oncology | 78 | 62 | 79.5% | 63 | 80.8% | 66 | 84.69 | |
| Emergency medicine | 272 | 239 | 87.9% | 267 | 98.2% | 267 | 98.29 | |
| - Clinical informatics | 5 | 1 | 20.0% | 3 | 60.0% | 3 | 60.0% | |
| - Emergency medical services | 75 | 64 | 85.3% | 73 | 97.3% | 63 | 84.0% | |
| - Medical toxicology | 27 | 24 | 88.9% | 26 | 96.3% | 26 | 96.3% | |
| Pediatric emergency medicine | 27 | 25 | 92.6% | 25 | 92.6% | 25 | 92.6% | |
| - Sports medicine | 9 | 6 | 66.7% | 6 | 66.7% | 8 | 88.99 | |
| - Undersea and hyperbaric medicine | 8 | 7 | 87.5% | 6 | 75.0% | 6 | 75.0% | |
| Family medicine | 705 | 688 | 97.6% | 698 | 99.0% | 690 | 97.9% | |
| - Clinical informatics | 6 | 5 | 83.3% | 5 | 83.3% | 5 | 83.3% | |
| - Geriatric medicine | 49 | 48 | 98.0% | 47 | 95.9% | 45 | 91.8% | |
| Hospice and palliative medicine (multidisciplinary) | 178 | 173 | 97.2% | 175 | 98.3% | 176 | 98.9% | |
| - Sports medicine | 156 | 148 | 94.9% | 145 | 92.9% | 124 | 79.5% | |
| Internal medicine | 575 | 513 | 89.2% | 550 | 95.7% | 549 | 95.5% | |
| - Adult congenital heart disease | 24 | 12 | 50.0% | 12 | 50.0% | 9 | 37.5% | |
| | 82 | 57 | 69.5% | 63 | 76.8% | 49 | 59.8% | |
| Advanced heart failure and transplant cardiologyCardiovascular disease | 255 | 159 | 62.4% | 185 | 70.8% | 176 | 69.0% | |
| | 112 | 72 | 64.3% | 81 | 72.3% | 78 | 69.6% | |
| - Clinical cardiac electrophysiology | | 9 | | | | 12 | | |
| - Clinical informatics - Critical care medicine | 19 55 | 45 | 47.4% | 10 51 | 52.6% 92.7% | 41 | 63.2% 74.5% | |
| | | | 81.8% | | | 77 | | |
| - Endocrinology, diabetes, and metabolism | 153 | 78 | 51.0% | 85 | 55.6% | | 50.3% | |
| - Gastroenterology | 210 | 163 | 77.6% 95.6% | 176 | 83.8% 99.1% | 152 | 72.4% | |
| - Geriatric medicine | 113 | 108 | | 112 | | 104 | 92.0% | |
| - Hematology | 2 | 2 | 100.0% | 2 | 100.0% | 101 | 50.0% | |
| - Hematology and medical oncology | 172 | 147 | 85.5% | 165 | 95.9% | 161 | 93.6% | |
| - Infectious disease | 157 | 84 | 53.5% | 81 | 51.6% | 84 | 53.5% | |
| - Interventional cardiology | 170 | 114 | 67.1% | 124 | 72.9% | 111 | 65.39 | |
| - Nephrology | 151 | 94 | 62.3% | 114 | 75.5% | 100 | 66.29 | |
| Medical oncology | 6 | 4 | 66.7% | 6 | 100.0% | 5 | 83.39 | |
| Pulmonary disease | 20 | 14 | 70.0% | 16 | 80.0% | 17 | 85.09 | |
| Pulmonary disease and critical care medicine | 188 | 134 | 71.3% | 169 | 89.9% | 149 | 79.39 | |
| Rheumatology | 125 | 114 | 91.2% | 115 | 92.0% | 100 | 80.09 | |
| - Sleep medicine (multidisciplinary) | 88 | 47 | 53.4% | 46 | 52.3% | 56 | 63.6% | |
| - Transplant hepatology | 59 | 44 | 74.6% | 45 | 76.3% | 41 | 69.59 | |
| Medical genetics and genomics | 46 | 19 | 41.3% | 20 | 43.5% | 16 | 34.89 | |
| - Medical biochemical genetics | 20 | 11 | 55.0% | 12 | 60.0% | 9 | 45.0% | |
| - Molecular genetic pathology (multidisciplinary) | 42 | 8 | 19.0% | 6 | 14.3% | 8 | 19.0% | |
| Neurological surgery - Endovascular surgical neuroradiology | 116 | 91 | 78.4% 50.0% | 102 | 87.9% 50.0% | 109 | 94.09 | |

Table H.6 Extended

| Depend | mition of dence and diction | | Dependence on Treatment | | Dependence Idiction | Medicatio Treatmen Trai | nt Waiver | Using M | al Training edication- Ireatment | None of | The Above |
|--------|-----------------------------------|-------|----------------------------|-------|------------------------|-------------------------------|-----------|---------|--|---------|-----------|
| # | % | # | % | # | % | # | % | # | % | # | % |
| 9,913 | 80.2% | 8,170 | 66.1% | 5,135 | 41.5% | 2,141 | 17.3% | 1,687 | 13.6% | 676 | 5.5% |
| 4,489 | 87.1% | 3,902 | 75.7% | 2,648 | 51.4% | 1,251 | 24.3% | 982 | 19.1% | 135 | 2.6% |
| 52 | 64.2% | 38 | 46.9% | 12 | 14.8% | 4 | 4.9% | 3 | 3.7% | 9 | 11.1% |
| 160 | 99.4% | 132 | 82.0% | 114 | 70.8% | 32 | 19.9% | 29 | 18.0% | 0 | 0.0% |
| 61 | 83.6% | 35 | 47.9% | 25 | 34.2% | 5 | 6.8% | 4 | 5.5% | 1 | 1.4% |
| 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 56 | 88.9% | 38 | 60.3% | 33 | 52.4% | 4 | 6.3% | 4 | 6.3% | 0 | 0.0% |
| 37 | 97.4% | 32 | 84.2% | 26 | 68.4% | 8 | 21.1% | 7 | 18.4% | 0 | 0.0% |
| 37 | 90.2% | 25 | 61.0% | 22 | 53.7% | 4 | 9.8% | 6 | 14.6% | 0 | 0.0% |
| 108 | 99.1% | 105 | 96.3% | 89 | 81.7% | 54 | 49.5% | 45 | 41.3% | 0 | 0.0% |
| 53 | 88.3% | 33 | 55.0% | 27 | 45.0% | 1 | 1.7% | 3 | 5.0% | 0 | 0.0% |
| 51 | 78.5% | 42 | 64.6% | 17 | 26.2% | 5 | 7.7% | 3 | 4.6% | 0 | 0.0% |
| 97 | 67.4% | 77 | 53.5% | 15 | 10.4% | 5 | 3.5% | 6 | 4.2% | 7 | 4.9% |
| 20 | 35.7% | 12 | 21.4% | 5 | 8.9% | 2 | 3.6% | 1 | 1.8% | 26 | 46.4% |
| 59 | 75.6% | 36 | 46.2% | 12 | 15.4% | 4 | 5.1% | 5 | 6.4% | 2 | 2.6% |
| 268 | 98.5% | 257 | 94.5% | 218 | 80.1% | 132 | 48.5% | 82 | 30.1% | 0 | 0.0% |
| 1 | 20.0% | 1 | 20.0% | 1 | 20.0% | 0 | 0.0% | 1 | 20.0% | 1 | 20.0% |
| 63 | 84.0% | 54 | 72.0% | 46 | 61.3% | 29 | 38.7% | 14 | 18.7% | 0 | 0.0% |
| 26 | 96.3% | 24 | 88.9% | 25 | 92.6% | 23 | 85.2% | 18 | 66.7% | 1 | 3.7% |
| 24 | 88.9% | 16 | 59.3% | 11 | 40.7% | 4 | 14.8% | 1 | 3.7% | 0 | 0.0% |
| 8 | 88.9% | 7 | 77.8% | 3 | 33.3% | 2 | 22.2% | 1 | 11.1% | 0 | 0.0% |
| 6 | 75.0% | 8 | 100.0% | 1 | 12.5% | 0 | 0.0% | 1 | 12.5% | 0 | 0.0% |
| 686 | 97.3% | 674 | 95.6% | 544 | 77.2% | 377 | 53.5% | 286 | 40.6% | 2 | 0.3% |
| 5 | 83.3% | 5 | 83.3% | 5 | 83.3% | 5 | 83.3% | 1 | 16.7% | 0 | 0.0% |
| 47 | 95.9% | 42 | 85.7% | 23 | 46.9% | 15 | 30.6% | 13 | 26.5% | 0 | 0.0% |
| 175 | 98.3% | 161 | 90.4% | 115 | 64.6% | 55 | 30.9% | 35 | 19.7% | 0 | 0.0% |
| 125 | 80.1% | 102 | 65.4% | 42 | 26.9% | 17 | 10.9% | 9 | 5.8% | 3 | 1.9% |
| 545 | 94.8% | 495 | 86.1% | 393 | 68.3% | 146 | 25.4% | 103 | 17.9% | 2 | 0.3% |
| 16 | 66.7% | 13 | 54.2% | 4 | 16.7% | 1 | 4.2% | 1 | 4.2% | 3 | 12.5% |
| 61 | 74.4% | 43 | 52.4% | 16 | 19.5% | 2 | 2.4% | 2 | 2.4% | 6 | 7.3% |
| 188 | 73.7% | 143 | 56.1% | 73 | 28.6% | 17 | 6.7% | 15 | 5.9% | 11 | 4.3% |
| 73 | 65.2% | 53 | 47.3% | 23 | 20.5% | 4 | 3.6% | 2 | 1.8% | 8 | 7.1% |
| 9 | 47.4% | 8 | 42.1% | 4 | 21.1% | 4 | 21.1% | 0 | 0.0% | 5 | 26.3% |
| 42 | 76.4% | 32 | 58.2% | 25 | 45.5% | 9 | 16.4% | 7 | 12.7% | 1 | 1.8% |
| 89 | 58.2% | 75 | 49.0% | 28 | 18.3% | 7 | 4.6% | 4 | 2.6% | 19 | 12.4% |
| 168 | 80.0% | 144 | 68.6% | 61 | 29.0% | 12 | 5.7% | 12 | 5.7% | 6 | 2.9% |
| 99 | 87.6% | 84 | 74.3% | 45 | 39.8% | 20 | 17.7% | 13 | 11.5% | 0 | 0.0% |
| 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 143 | 83.1% | 109 | 63.4% | 49 | 28.5% | 13 | 7.6% | 10 | 5.8% | 0 | 0.0% |
| 123 | 78.3% | 115 | 73.2% | 48 | 30.6% | 21 | 13.4% | 10 | 6.4% | 10 | 6.4% |
| 125 | 73.5% | 92 | 54.1% | 49 | 28.8% | 11 | 6.5% | 12 | 7.1% | 6 | 3.5% |
| 101 | 66.9% | 92 | 60.9% | 36 | 23.8% | 7 | 4.6% | 8 | 5.3% | 11 | 7.3% |
| 4 | 66.7% | 3 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 18 | 90.0% | 14 | 70.0% | 12 | 60.0% | 3 | 15.0% | 2 | 10.0% | 2 | 10.0% |
| 151 | 80.3% | 119 | 63.3% | 74 | 39.4% | 17 | 9.0% | 10 | 5.3% | 3 | 1.6% |
| 96 | 76.8% | 74 | 59.2% | 20 | 16.0% | 6 | 4.8% | 3 | 2.4% | 2 | 1.6% |
| 60 | 68.2% | 39 | 44.3% | 14 | 15.9% | 4 | 4.5% | 7 | 8.0% | 4 | 4.5% |
| 51 | 86.4% | 43 | 72.9% | 22 | 37.3% | 1 | 1.7% | 3 | 5.1% | 0 | 0.0% |
| 29 | 63.0% | 22 | 47.8% | 8 | 17.4% | 2 | 4.3% | 3 | 6.5% | 11 | 23.9% |
| 14 | 70.0% | 7 | 35.0% | 4 | 20.0% | 2 | 10.0% | 2 | 10.0% | 5 | 25.0% |
| 12 | 28.6% | 12 | 28.6% | 6 | 14.3% | 1 | 2.4% | 0 | 0.0% | 23 | 54.8% |
| 98 | 84.5% | 80 | 69.0% | 47 | 40.5% | 14 | 12.1% | 14 | 12.1% | 0 | 0.0% |
| 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

Table H.6 Continued

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

| | | | acologic Pain gement | | ologic Pain gement | Opioid Prescribing | | |
|---|-----------------------|-----|-------------------------|----------|-----------------------|--------------------|----------------|--|
| Specialty | Number of Programs | # | % | # | % | # | % | |
| Neurology | 170 | 147 | 86.5% | 160 | 94.1% | 141 | 82.9% | |
| - Brain injury medicine | 1 | 1 | 100.0% | 1 | 100.0% | 1 | 100.0% | |
| - Clinical neurophysiology | 93 | 62 | 66.7% | 67 | 72.0% | 53 | 57.0% | |
| - Epilepsy | 85 | 46 | 54.1% | 48 | 56.5% | 46 | 54.1% | |
| - Endovascular surgical neuroradiology | 2 | 2 | 100.0% | 2 | 100.0% | 2 | 100.0% | |
| - Neurodevelopmental disabilities | 8 | 8 | 100.0% | 7 | 87.5% | 3 | 37.5% | |
| - Neuromuscular medicine | 53 | 45 | 84.9% | 49 | 92.5% | 32 | 60.4% | |
| - Vascular neurology | 109 | 83 | 76.1% | 85 | 78.0% | 66 | 60.6% | |
| Child neurology | 77 | 72 | 93.5% | 73 | 94.8% | 51 | 66.2% | |
| Nuclear medicine | 37 | 23 | 62.2% | 20 | 54.1% | 22 | 59.5% | |
| Obstetrics and gynecology | 293 | 260 | 88.7% | 282 | 96.2% | 280 | 95.6% | |
| Female pelvic medicine and reconstructive surgery | 54 | 50 | 92.6% | 53 | 98.1% | 52 | 96.3% | |
| - Gynecologic oncology | 63 | 56 | 88.9% | 61 | 96.8% | 62 | 98.4% | |
| - Maternal-fetal medicine | 99 | 89 | 89.9% | 95 | 96.0% | 91 | 91.9% | |
| Reproductive endocrinology and infertility | 49 | 44 | 89.8% | 46 | 93.9% | 43 | 87.8% | |
| - Complex family planning | 26 | 26 | 100.0% | 26 | 100.0% | 25 | 96.2% | |
| Ophthalmology | 125 | 81 | 64.8% | 95 | 76.0% | 92 | 73.6% | |
| - Ophthalmic plastic and reconstructive surgery | 4 | 3 | 75.0% | 4 | 100.0% | 3 | 75.0% | |
| Orthopaedic surgery | 200 | 178 | 89.0% | 185 | 92.5% | 197 | 98.5% | |
| - Adult reconstructive orthopaedics | 25 | 22 | 88.0% | 22 | 88.0% | 23 | 92.0% | |
| Foot and ankle orthopaedics | 7 | 6 | 85.7% | 7 | 100.0% | 7 | 100.0% | |
| · Hand surgery | 72 | 62 | 86.1% | 62 | 86.1% | 66 | 91.7% | |
| Musculoskeletal oncology | 12 | 8 | 66.7% | 10 | 83.3% | 12 | 100.0% | |
| - Orthopaedic sports medicine | 91 | 83 | 91.2% | 80 | 87.9% | 84 | 92.3% | |
| - Orthopaedic surgery of the spine | 16 | 13 | 81.3% | 15 | 93.8% | 15 | 93.8% | |
| - Orthopaedic trauma | 12 | 11 | 91.7% | 12 | 100.0% | 12 | 100.0% | |
| Pediatric orthopaedics | 25 | 23 | 92.0% | 23 | 92.0% | 25 | 100.0% | |
| Osteopathic neuromusculoskeletal medicine | 28 | 28 | 100.0% | 28 | 100.0% | 26 | 92.9% | |
| Otolaryngology - head and neck surgery | 125 | 94 | 75.2% | 110 | 88.0% | 121 | 96.8% | |
| - Neurotology | 26 | 21 | 80.8% | 22 | 84.6% | 24 | 92.3% | |
| - Neurotology - Pediatric otolaryngology | 31 | 21 | | | | 29 | | |
| Pathology-anatomic and clinical | 144 | 25 | 67.7% | 25 27 | 80.6% | 36 | 93.5% | |
| - Blood banking/transfusion medicine | 52 | | 17.4% | | 18.8% | | 25.0% | |
| - Clinical informatics | 11 | 10 | 19.2% 45.5% | 10 5 | 19.2% 45.5% | 14 5 | 26.9% 45.5% | |
| | | 0 | | | | | | |
| - Chemical pathology | 93 | 22 | 0.0% | 1 | 25.0% | 0 27 | 0.0% | |
| - Cytopathology | | | 23.7% | 23 | 24.7% | | 29.0% | |
| - Forensic pathology | 45 | 2 | 4.4% | 2 | 4.4% | 2 | 4.4% | |
| - Hematopathology | 86 | 14 | 16.3% | 15 | 17.4% | 22 | 25.6% | |
| - Medical microbiology | 15 | 2 | 13.3% | 2 | 13.3% | 3 | 20.0% | |
| - Neuropathology | 38 | 7 | 18.4% | 7 | 18.4% | 7 | 18.4% | |
| - Pediatric pathology | 28 | 2 | 7.1% | 3 | 10.7% | 3 | 10.7% | |
| Selective pathology | 109 | 15 | 13.8% | 16 | 14.7% | 28 | 25.7% | |
| Pediatrics | 210 | 190 | 90.5% | 202 | 96.2% | 188 | 89.5% | |
| Adolescent medicine | 32 | 27 | 84.4% | 25 | 78.1% | 20 | 62.5% | |
| Child abuse pediatrics | 31 | 14 | 45.2% | 13 | 41.9% | 14 | 45.2% | |
| Clinical informatics | 8 | 1 | 12.5% | 3 | 37.5% | 4 | 50.0% | |
| Developmental-behavioral pediatrics | 44 | 27 | 61.4% | 19 | 43.2% | 15 | 34.1% | |
| Neonatal-perinatal medicine | 106 | 99 | 93.4% | 98 | 92.5% | 77 | 72.6% | |
| - Pediatric cardiology | 64 | 44 | 68.8% | 52 | 81.3% | 45 | 70.3% | |
| - Pediatric critical care medicine | 75 | 69 | 92.0% | 73 | 97.3% | 61 | 81.3% | |
| - Pediatric emergency medicine | 55 | 47 | 85.5% | 55 | 100.0% | 51 | 92.7% | |
| - Pediatric endocrinology | 72 | 31 | 43.1% | 33 | 45.8% | 35 | 48.6% | |
| - Pediatric gastroenterology | 67 | 54 | 80.6% | 53 | 79.1% | 47 | 70.19 | |

Table H.6 Continued, Extended

| Recognition of Dependence and Addiction Referral for Dependence and Addiction Treatment | | Treatment of Dependence and Addiction | | Medication-Assisted Treatment Waiver Training | | Experiential Training Using Medication- Assisted Treatment | | None of The Above | | | |
|---|--------|---------------------------------------|--------|---|-------|--|-------|-------------------|-------|----|-------|
| # | % | # | % | # | % | # | % | # | % | # | % |
| 144 | 84.7% | 128 | 75.3% | 63 | 37.1% | 14 | 8.2% | 14 | 8.2% | 1 | 0.6% |
| 1 | 100.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 63 | 67.7% | 49 | 52.7% | 21 | 22.6% | 1 | 1.1% | 1 | 1.1% | 10 | 10.8% |
| 53 | 62.4% | 36 | 42.4% | 12 | 14.1% | 1 | 1.2% | 2 | 2.4% | 6 | 7.1% |
| 2 | 100.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 4 | 50.0% | 2 | 25.0% | 1 | 12.5% | 0 | 0.0% | 1 | 12.5% | 0 | 0.0% |
| 38 | 71.7% | 34 | 64.2% | 10 | 18.9% | 2 | 3.8% | 1 | 1.9% | 1 | 1.9% |
| 82 | 75.2% | 66 | 60.6% | 25 | 22.9% | 6 | 5.5% | 5 | 4.6% | 1 | 0.9% |
| 55 | 71.4% | 41 | 53.2% | 20 | 26.0% | 3 | 3.9% | 3 | 3.9% | 0 | 0.0% |
| 21 | 56.8% | 16 | 43.2% | 12 | 32.4% | 7 | 18.9% | 6 | 16.2% | 7 | 18.9% |
| 267 | 91.1% | 255 | 87.0% | 167 | 57.0% | 66 | 22.5% | 59 | 20.1% | 0 | 0.0% |
| 41 | 75.9% | 31 | 57.4% | 8 | 14.8% | 2 | 3.7% | 1 | 1.9% | 0 | 0.0% |
| 56 | 88.9% | 42 | 66.7% | 17 | 27.0% | 6 | 9.5% | 1 | 1.6% | 0 | 0.0% |
| 92 | 92.9% | 89 | 89.9% | 68 | 68.7% | 38 | 38.4% | 29 | 29.3% | 0 | 0.0% |
| 36 | 73.5% | 26 | 53.1% | 10 | 20.4% | 2 | 4.1% | 2 | 4.1% | 0 | 0.0% |
| 25 | 96.2% | 22 | 84.6% | 8 | 30.8% | 2 | 7.7% | 1 | 3.8% | 0 | 0.0% |
| 82 | 65.6% | 66 | 52.8% | 24 | 19.2% | 5 | 4.0% | 3 | 2.4% | 4 | 3.2% |
| 3 | 75.0% | 3 | 75.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 180 | 90.0% | 148 | 74.0% | 70 | 35.0% | 28 | 14.0% | 19 | 9.5% | 0 | 0.0% |
| 21 | 84.0% | 15 | 60.0% | 4 | 16.0% | 2 | 8.0% | 3 | 12.0% | 1 | 4.0% |
| 7 | 100.0% | 7 | 100.0% | 3 | 42.9% | 1 | 14.3% | 1 | 14.3% | 0 | 0.0% |
| 60 | 83.3% | 48 | 66.7% | 22 | 30.6% | 9 | 12.5% | 5 | 6.9% | 2 | 2.8% |
| 7 | 58.3% | 5 | 41.7% | 3 | 25.0% | 1 | 8.3% | 0 | 0.0% | 0 | 0.0% |
| 74 | 81.3% | 57 | 62.6% | 22 | 24.2% | 8 | 8.8% | 6 | 6.6% | 0 | 0.0% |
| 15 | 93.8% | 11 | 68.8% | 4 | 25.0% | 1 | 6.3% | 1 | 6.3% | 0 | 0.0% |
| 10 | 83.3% | 8 | 66.7% | 2 | 16.7% | 2 | 16.7% | 2 | 16.7% | 0 | 0.0% |
| 19 | 76.0% | 12 | 48.0% | 3 | 12.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 27 | 96.4% | 24 | 85.7% | 13 | 46.4% | 6 | 21.4% | 4 | 14.3% | 0 | 0.0% |
| | | 85 | 68.0% | 35 | 28.0% | 8 | | 4 | | | |
| 110 | 88.0% | | | | | | 6.4% | | 3.2% | 0 | 0.0% |
| 21 | 80.8% | 14 | 53.8% | 5 | 19.2% | 2 | 7.7% | 1 | 3.8% | 0 | 0.0% |
| 18 | 58.1% | 11 | 35.5% | 5 | 16.1% | 2 | 6.5% | 3 | 9.7% | 0 | 0.0% |
| 62 | 43.1% | 41 | 28.5% | 20 | 13.9% | 3 | 2.1% | 4 | 2.8% | 68 | 47.2% |
| 16 | 30.8% | 11 | 21.2% | 4 | 7.7% | 1 | 1.9% | 1 | 1.9% | 28 | 53.8% |
| 4 | 36.4% | 1 | 9.1% | 0 | 0.0% | 0 | 0.0% | 1 | 9.1% | 3 | 27.3% |
| 0 | 0.0% | 1 | 25.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 | 50.0% |
| 36 | 38.7% | 23 | 24.7% | 13 | 14.0% | 0 | 0.0% | 1 | 1.1% | 41 | 44.1% |
| 15 | 33.3% | 4 | 8.9% | 3 | 6.7% | 0 | 0.0% | 0 | 0.0% | 30 | 66.7% |
| 36 | 41.9% | 22 | 25.6% | 12 | 14.0% | 1 | 1.2% | 2 | 2.3% | 41 | 47.7% |
| 3 | 20.0% | 1 | 6.7% | 2 | 13.3% | 0 | 0.0% | 0 | 0.0% | 9 | 60.0% |
| 12 | 31.6% | 8 | 21.1% | 3 | 7.9% | 0 | 0.0% | 0 | 0.0% | 23 | 60.5% |
| 9 | 32.1% | 5 | 17.9% | 1 | 3.6% | 1 | 3.6% | 0 | 0.0% | 18 | 64.3% |
| 35 | 32.1% | 30 | 27.5% | 15 | 13.8% | 5 | 4.6% | 7 | 6.4% | 54 | 49.5% |
| 191 | 91.0% | 150 | 71.4% | 92 | 43.8% | 16 | 7.6% | 15 | 7.1% | 0 | 0.0% |
| 29 | 90.6% | 30 | 93.8% | 21 | 65.6% | 11 | 34.4% | 7 | 21.9% | 0 | 0.0% |
| 23 | 74.2% | 11 | 35.5% | 3 | 9.7% | 0 | 0.0% | 1 | 3.2% | 6 | 19.4% |
| 2 | 25.0% | 1 | 12.5% | 2 | 25.0% | 0 | 0.0% | 0 | 0.0% | 4 | 50.0% |
| 35 | 79.5% | 31 | 70.5% | 11 | 25.0% | 2 | 4.5% | 1 | 2.3% | 4 | 9.1% |
| 72 | 67.9% | 30 | 28.3% | 60 | 56.6% | 8 | 7.5% | 10 | 9.4% | 1 | 0.9% |
| 44 | 68.8% | 21 | 32.8% | 16 | 25.0% | 4 | 6.3% | 4 | 6.3% | 3 | 4.7% |
| 55 | 73.3% | 32 | 42.7% | 34 | 45.3% | 2 | 2.7% | 5 | 6.7% | 1 | 1.3% |
| 41 | 74.5% | 36 | 65.5% | 23 | 41.8% | 6 | 10.9% | 3 | 5.5% | 0 | 0.0% |
| 42 | 58.3% | 31 | 43.1% | 13 | 18.1% | 1 | 1.4% | 0 | 0.0% | 15 | 20.8% |
| 51 | 76.1% | 35 | 52.2% | 16 | 23.9% | 5 | 7.5% | 5 | 7.5% | 0 | 0.0% |

Table H.6 Continued

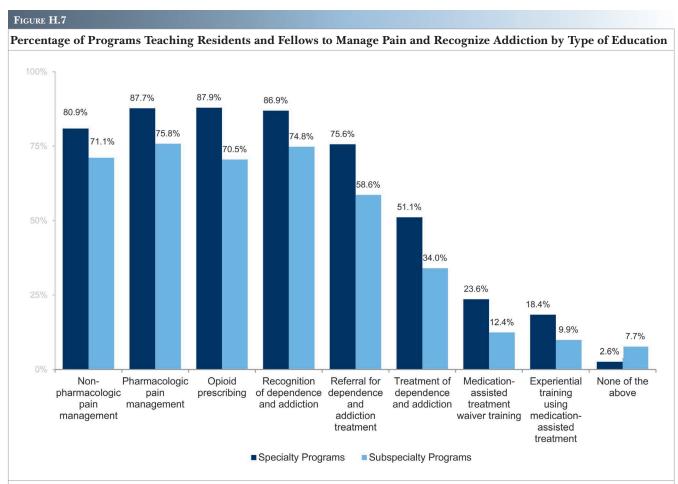
Percentage of Programs Teaching Residents and Fellows to Manage Pain and Recognize Addiction by Type of Education and by Specialty and Subspecialty

| | | | nacologic Pain agement | | ologic Pain gement | Opioid Prescribing | |
|---|-----------------------|-----|---------------------------|-----|-----------------------|--------------------|--------|
| Specialty | Number of Programs | # | % | # | % | # | % |
| - Pediatric hematology/oncology | 76 | 74 | 97.4% | 75 | 98.7% | 72 | 94.7% |
| Pediatric infectious diseases | 64 | 36 | 56.3% | 38 | 59.4% | 39 | 60.9% |
| Pediatric nephrology | 47 | 30 | 63.8% | 36 | 76.6% | 26 | 55.3% |
| Pediatric pulmonology | 56 | 34 | 60.7% | 35 | 62.5% | 28 | 50.09 |
| Pediatric rheumatology | 37 | 37 | 100.0% | 34 | 91.9% | 21 | 56.89 |
| Sports medicine | 17 | 17 | 100.0% | 17 | 100.0% | 14 | 82.49 |
| Pediatric transplant hepatology | 17 | 13 | 76.5% | 13 | 76.5% | 14 | 82.49 |
| Pediatric hospital medicine | 52 | 51 | 98.1% | 51 | 98.1% | 49 | 94.29 |
| Physical medicine and rehabilitation | 97 | 96 | 99.0% | 95 | 97.9% | 94 | 96.99 |
| Brain injury medicine | 25 | 25 | 100.0% | 25 | 100.0% | 25 | 100.09 |
| Neuromuscular medicine | 1 | 1 | 100.0% | 1 | 100.0% | 1 | 100.09 |
| Spinal cord injury medicine | 24 | 23 | 95.8% | 24 | 100.0% | 22 | 91.79 |
| Pediatric rehabilitation medicine | 22 | 21 | 95.5% | 22 | 100.0% | 21 | 95.59 |
| | 21 | 19 | | | | 21 | 100.09 |
| Sports medicine | 52 | | 90.5% | 20 | 95.2% | | |
| Plastic surgery | 84 | 39 | 75.0% | 46 | 88.5% | 51 | 98.19 |
| Plastic surgery - integrated | | 65 | 77.4% | 78 | 92.9% | 83 | 98.89 |
| Craniofacial surgery | 8 | 5 | 62.5% | 8 | 100.0% | 8 | 100.09 |
| Hand surgery | 17 | 10 | 58.8% | 14 | 82.4% | 17 | 100.09 |
| Preventive medicine | 72 | 49 | 68.1% | 50 | 69.4% | 54 | 75.09 |
| Medical toxicology | 1 | 1 | 100.0% | 1 | 100.0% | 1 | 100.09 |
| Undersea and hyperbaric medicine | 1 | 1 | 100.0% | 1 | 100.0% | 1 | 100.09 |
| Psychiatry | 284 | 215 | 75.7% | 226 | 79.6% | 216 | 76.19 |
| Addiction medicine (multidisciplinary) | 85 | 82 | 96.5% | 85 | 100.0% | 82 | 96.59 |
| Addiction psychiatry | 53 | 49 | 92.5% | 50 | 94.3% | 49 | 92.59 |
| Child and adolescent psychiatry | 146 | 94 | 64.4% | 78 | 53.4% | 57 | 39.09 |
| Forensic psychiatry | 49 | 17 | 34.7% | 21 | 42.9% | 20 | 40.89 |
| Geriatric psychiatry | 64 | 52 | 81.3% | 49 | 76.6% | 34 | 53.19 |
| Consultation-liaison psychiatry | 64 | 53 | 82.8% | 59 | 92.2% | 45 | 70.39 |
| Radiation oncology | 91 | 71 | 78.0% | 83 | 91.2% | 87 | 95.69 |
| Radiology-diagnostic | 196 | 96 | 49.0% | 122 | 62.2% | 124 | 63.39 |
| Abdominal radiology | 13 | 8 | 61.5% | 10 | 76.9% | 5 | 38.59 |
| Endovascular surgical neuroradiology | 3 | 2 | 66.7% | 3 | 100.0% | 2 | 66.79 |
| - Musculoskeletal radiology | 20 | 10 | 50.0% | 11 | 55.0% | 13 | 65.09 |
| Neuroradiology | 89 | 36 | 40.4% | 41 | 46.1% | 44 | 49.49 |
| Nuclear radiology | 18 | 7 | 38.9% | 8 | 44.4% | 9 | 50.09 |
| Pediatric radiology | 48 | 14 | 29.2% | 13 | 27.1% | 16 | 33.39 |
| nterventional radiology - independent | 93 | 66 | 71.0% | 75 | 80.6% | 76 | 81.79 |
| nterventional radiology - integrated | 91 | 65 | 71.4% | 74 | 81.3% | 78 | 85.79 |
| Surgery | 344 | 284 | 82.6% | 314 | 91.3% | 330 | 95.99 |
| Complex general surgical oncology | 31 | 26 | 83.9% | 29 | 93.5% | 29 | 93.59 |
| Hand surgery | 2 | 2 | 100.0% | 2 | 100.0% | 2 | 100.09 |
| Pediatric surgery | 51 | 46 | 90.2% | 48 | 94.1% | 49 | 96.19 |
| Surgical critical care | 145 | 123 | 84.8% | 136 | 93.8% | 130 | 89.79 |
| Vascular surgery | 115 | 82 | 71.3% | 98 | 85.2% | 110 | 95.79 |
| Vascular surgery - integrated | 67 | 46 | 68.7% | 57 | 85.1% | 62 | 92.59 |
| Choracic surgery | 74 | 51 | 68.9% | 63 | 85.1% | 69 | 93.29 |
| Congenital cardiac surgery | 15 | 8 | 53.3% | 10 | 66.7% | 12 | 80.09 |
| Choracic surgery - integrated | 31 | 20 | 64.5% | 25 | 80.6% | 29 | 93.59 |
| Jrology | 145 | 111 | 76.6% | 125 | 86.2% | 136 | 93.89 |
| Female pelvic medicine and reconstructive surgery | 15 | 13 | 86.7% | 14 | 93.3% | 14 | 93.39 |
| Pediatric urology | 26 | 17 | 65.4% | 22 | 84.6% | 25 | 96.29 |
| Fransitional year | 172 | 153 | 89.0% | 161 | 93.6% | 159 | 92.49 |
| Internal medicine/Pediatrics | 79 | 72 | 91.1% | 77 | 93.0% | 78 | 98.79 |

Notes: Not all accredited programs completed these data. Total number of specialty programs = 5,453. Total number of subspecialty programs = 6,913. Programs can select more than one education type.

TABLE H.6 Continued, Extended

| Recognition of Dependence and Addiction Referral for Dependence and Addiction Treatment | | Treatment of Dependence and Addiction | | Medication-Assisted Treatment Waiver Training | | Experiential Training Using Medication- Assisted Treatment | | None of The Above | | | |
|---|--------|---------------------------------------|--------|---|--------|--|--------|-------------------|--------|----|-------|
| # | % | # | % | # | % | # | % | # | % | # | % |
| 65 | 85.5% | 38 | 50.0% | 21 | 27.6% | 5 | 6.6% | 5 | 6.6% | 0 | 0.0% |
| 40 | 62.5% | 32 | 50.0% | 8 | 12.5% | 3 | 4.7% | 1 | 1.6% | 9 | 14.1% |
| 31 | 66.0% | 20 | 42.6% | 11 | 23.4% | 5 | 10.6% | 4 | 8.5% | 3 | 6.4% |
| 37 | 66.1% | 25 | 44.6% | 11 | 19.6% | 3 | 5.4% | 4 | 7.1% | 5 | 8.9% |
| 23 | 62.2% | 16 | 43.2% | 4 | 10.8% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 14 | 82.4% | 12 | 70.6% | 7 | 41.2% | 2 | 11.8% | 1 | 5.9% | 0 | 0.0% |
| 15 | 88.2% | 10 | 58.8% | 7 | 41.2% | 1 | 5.9% | 0 | 0.0% | 0 | 0.0% |
| 49 | 94.2% | 38 | 73.1% | 22 | 42.3% | 1 | 1.9% | 1 | 1.9% | 0 | 0.0% |
| 93 | 95.9% | 84 | 86.6% | 61 | 62.9% | 16 | 16.5% | 17 | 17.5% | 0 | 0.0% |
| 22 | 88.0% | 17 | 68.0% | 6 | 24.0% | 2 | 8.0% | 4 | 16.0% | 0 | 0.0% |
| 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 18 | 75.0% | 17 | 70.8% | 9 | 37.5% | 3 | 12.5% | 2 | 8.3% | 0 | 0.0% |
| 16 | 72.7% | 12 | 54.5% | 5 | 22.7% | 1 | 4.5% | 0 | 0.0% | 0 | 0.0% |
| 18 | 85.7% | 13 | 61.9% | 10 | 47.6% | 2 | 9.5% | 1 | 4.8% | 0 | 0.0% |
| 42 | 80.8% | 26 | 50.0% | 13 | 25.0% | 4 | 7.7% | 5 | 9.6% | 0 | 0.0% |
| 74 | 88.1% | 55 | 65.5% | 29 | 34.5% | 14 | 16.7% | 13 | 15.5% | 0 | 0.0% |
| 5 | 62.5% | 3 | 37.5% | 1 | 12.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 14 | 82.4% | 11 | 64.7% | 2 | 11.8% | 0 | 0.0% | 2 | 11.8% | 0 | 0.0% |
| 64 | 88.9% | 55 | 76.4% | 35 | 48.6% | 22 | 30.6% | 10 | 13.9% | 3 | 4.2% |
| 1 | 100.0% | 1 | 100.0% | 1 | 100.0% | 1 | 100.0% | 1 | 100.0% | 0 | 0.0% |
| 1 | 100.0% | 1 | 100.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% |
| 283 | 99.6% | 273 | 96.1% | 278 | 97.9% | 215 | 75.7% | 179 | 63.0% | 0 | 0.0% |
| 83 | 97.6% | 81 | 95.3% | 85 | 100.0% | 83 | 97.6% | 78 | 91.8% | 0 | 0.0% |
| 53 | 100.0% | 48 | 90.6% | 52 | 98.1% | 50 | 94.3% | 48 | 90.6% | 0 | 0.0% |
| 144 | 98.6% | 139 | 95.2% | 125 | 85.6% | 50 | 34.2% | 27 | 18.5% | 0 | 0.0% |
| 42 | 85.7% | 30 | 61.2% | 22 | 44.9% | 7 | 14.3% | 5 | 10.2% | 2 | 4.1% |
| 62 | 96.9% | 57 | 89.1% | 55 | 85.9% | 17 | 26.6% | 14 | 21.9% | 0 | 0.0% |
| 62 | 96.9% | 62 | 96.9% | 54 | 84.4% | 35 | 54.7% | 26 | 40.6% | 0 | 0.0% |
| 78 | 85.7% | 65 | 71.4% | 28 | 30.8% | 10 | 11.0% | 4 | 4.4% | 0 | 0.0% |
| 133 | 67.9% | 91 | 46.4% | 55 | 28.1% | 11 | 5.6% | 9 | 4.6% | 23 | 11.7% |
| 8 | 61.5% | 5 | 38.5% | 2 | 15.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 2 | 66.7% | 2 | 66.7% | 1 | 33.3% | 0 | 0.0% | 1 | 33.3% | 0 | 0.0% |
| 12 | 60.0% | 9 | 45.0% | 7 | 35.0% | 0 | 0.0% | 0 | 0.0% | 3 | 15.0% |
| 55 | 61.8% | 36 | 40.4% | 19 | 21.3% | 8 | 9.0% | 7 | 7.9% | 21 | 23.6% |
| 8 | 44.4% | 8 | 44.4% | 5 | 27.8% | 2 | 11.1% | 1 | 5.6% | 5 | 27.8% |
| 23 | 47.9% | 14 | 29.2% | 9 | 18.8% | 2 | 4.2% | 5 | 10.4% | 15 | 31.3% |
| 70 | 75.3% | 45 | 48.4% | 20 | 21.5% | 6 | 6.5% | 7 | 7.5% | 3 | 3.2% |
| 70 | 76.9% | 57 | 62.6% | 31 | 34.1% | 7 | 7.7% | 8 | 8.8% | 1 | 1.1% |
| 287 | 83.4% | 244 | 70.9% | 109 | 31.7% | 33 | 9.6% | 32 | 9.3% | 2 | 0.6% |
| 23 | 74.2% | 21 | 67.7% | 8 | 25.8% | 3 | 9.7% | 3 | 9.7% | 1 | 3.2% |
| 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 37 | 72.5% | 27 | 52.9% | 16 | 31.4% | 3 | 5.9% | 2 | 3.9% | 0 | 0.0% |
| 120 | 82.8% | 94 | 64.8% | 57 | 39.3% | 16 | 11.0% | 17 | 11.7% | 0 | 0.0% |
| 92 | 80.0% | 73 | 63.5% | 39 | 33.9% | 10 | 8.7% | 9 | 7.8% | 1 | 0.9% |
| 51 | 76.1% | 37 | 55.2% | 22 | 32.8% | 8 | 11.9% | 7 | 10.4% | 1 | 1.5% |
| 59 | 79.7% | 46 | 62.2% | 30 | 40.5% | 4 | 5.4% | 5 | 6.8% | 1 | 1.4% |
| 10 | 66.7% | 6 | 40.0% | 7 | 46.7% | 0 | 0.0% | 0 | 0.0% | 1 | 6.7% |
| 24 | 77.4% | 17 | 54.8% | 12 | 38.7% | 4 | 12.9% | 3 | 9.7% | 0 | 0.0% |
| 121 | 83.4% | 94 | 64.8% | 48 | 33.1% | 12 | 8.3% | 13 | 9.0% | 0 | 0.0% |
| 12 | 80.0% | 11 | 73.3% | 3 | 20.0% | 1 | 6.7% | 0 | 0.0% | 0 | 0.0% |
| 19 | 73.1% | 11 | 42.3% | 7 | 26.9% | 3 | 11.5% | 1 | 3.8% | 0 | 0.0% |
| 160 | 93.0% | 137 | 79.7% | 101 | 58.7% | 28 | 16.3% | 18 | 10.5% | 2 | 1.2% |
| 77 | 97.5% | 68 | 86.1% | 52 | 65.8% | 25 | 31.6% | 21 | 26.6% | 0 | 0.0% |



Notes: Not all accredited programs completed these data. Total number of specialty programs = 5,453. Total number of subspecialty programs = 6,913. Programs can select more than one education type.

Appendix A

ACGME-Accredited Pipeline Specialties

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

Preventive 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

Hospital-based Specialties and Subspecialties

Anesthesiology

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

Emergency medicine

- Clinical informatics
- 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)

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

Preventive medicine

- Medical toxicology
- Undersea and hyperbaric medicine

Radiation oncology

Radiology-diagnostic

- Abdominal radiology
- Endovascular surgical neuroradiology
- Musculoskeletal radiology
- Neuroradiology
- Nuclear radiology
- Pediatric radiology

Interventional radiology - integrated

Transitional year

Medical Specialties and Subspecialties

Allergy and immunology

Dermatology

- Dermatopathology (multidisciplinary)
- Micrographic surgery and dermatologic oncology

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
- 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

- Brain injury medicine
- Clinical neurophysiology
- Epilepsy
- Endovascular surgical neuroradiology
- 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

Surgical Specialties and Subspecialties

Colon and rectal surgery

Neurological surgery

- Endovascular surgical neuroradiology

Obstetrics and gynecology

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

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

Appendix C

Institution Type Groups

Academic Medical Center/Medical School

Ambulatory Care Clinic/Federally Qualified Health Center (FQHC)

- Ambulatory Care Clinic/Office
- Federally Qualified Health Center (FQHC)

Children's Hospital

Consortium

General Teaching/Community Hospital

- General/Teaching Hospital
- Community Hospital
- Independent Academic Medical Center

Other

- Other
- Nursing Home/Rehabilitation Facility

Specialty Hospital

- Specialty Hospital
- Pathology Lab / Medical Examiner's Office

Veterans Administration



ACCREDITATION COUNCIL FOR GRADUATE MEDICAL EDUCATION

SUITE 2000 401 NORTH MICHIGAN AVENUE CHICAGO, ILLINOIS 60611

TELEPHONE: 312.755.5000

WWW.ACGME.ORG

© 2021 Accreditation Council for Graduate Medical Education (ACGME). No part of this work may be reproduced or distributed in any form or by any means without ACGME's prior written approval.