

# Appendix 1: Osteopathic Graduate Medical Education, 2016

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The American Osteopathic Association (AOA) Department of Education maintains historical annual data on approved, funded, and filled AOA positions, as reported by the National Matching Services (an AOA vendor) and the Trainee Information, Verification and Registration Audit (TIVRA) system. The current appendix includes an update for the 2014-2015 academic year. The AOA does not finalize postdoctoral training data until May of each calendar year. Trends and information on training slots from the AOA Match are also summarized.

Approved positions are the number of training slots awarded to a program by the Program and Trainee Review Council upon initial accreditation or through a request for an increase or decrease submitted by an already established program. Filled positions are the number of those approved training slots that are actually used to accommodate a trainee enrolled in the program. Growth in programs and positions is primarily a result of new programs at new hospitals and the expansion of other specialties at institutions with already established AOA residencies.

The *Figure* depicts trends of osteopathic physician (ie, DO) enrollment in osteopathic and allopathic postdoctoral training programs between academic years 2005-2006 and 2014-2015. The number of DOs in Accreditation Council for Graduate Medical Education postdoctoral programs, total DOs in AOA internship and residency programs, and osteopathic medical school graduates all show continued steady growth between 2008-2009 and 2014-2015.

*Table 1* illustrates the distribution of AOA residency and internship programs and trainees filling available positions by state. Compared with the previous year, the following 10 states

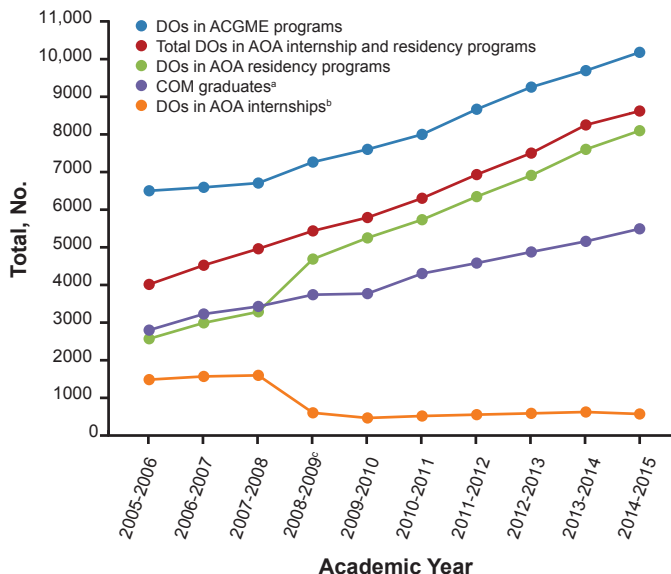
increased their number of trainees by more than 25%: Arizona, Colorado, Connecticut, Georgia, Massachusetts, Montana, South Carolina, Utah, Washington, and West Virginia. In addition, the following 5 states have the greatest number of programs, positions, and trainees: Florida, Michigan, New York, Ohio, and Pennsylvania. Twenty-four states had a growth in the number of programs, with the District of Columbia sponsoring its first AOA residency program since 1980.

*Table 2* shows the number of AOA-approved residency and fellowship programs and their approved and filled positions as reported by academic year and specialty. Forty-seven percent of residents are in the primary care specialties of family medicine (27%) and internal medicine (20%) for 2014-2015.

*Table 3* depicts the net growth from 2013-2014 to 2014-2015 academic years of the AOA-approved residency and fellowship programs and approved and filled positions by specialty. Family medicine and internal medicine have experienced the greatest amount of growth since academic year 2013-2014. Family medicine grew by 374 positions and internal medicine grew by 505 positions. General surgery and orthopedic surgery also had considerable growth in the number of positions, with 123 and 86 positions, respectively.

The period of application for ACGME accreditation for current AOA-approved residency and fellowship programs began July 1, 2015. As of February 2016, 67 sponsoring institutions have applied for ACGME accreditation, 128 programs have applied for ACGME accreditation, and 31 programs have applied for osteopathic recognition. (doi:10.7556/jaoa.2016.050)

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**Figure.**

Trends of osteopathic physician (ie, DO) enrollment in osteopathic and allopathic postdoctoral training programs. Osteopathic physicians in dually accredited programs are included in *DOs in AOA [American Osteopathic Association] residency programs and total DOs in AOA internship and residency programs*. Data may change and should be considered incomplete until finalized in the 2016 osteopathic medical education issue of *The Journal of the American Osteopathic Association (JAOA)*. Data for academic years 2005-2006 through 2013-2014 were previously published in the *JAOA*. <sup>a</sup>Total COM [college of osteopathic medicine] graduates does not include previous years' graduates. <sup>b</sup>Total DOs in AOA internships includes trainees who matched to osteopathic internship positions during both the Match and post-Match scramble. <sup>c</sup>Restructuring of the AOA internship, effective July 1, 2008. *Abbreviation:* ACGME, Accreditation Council for Graduate Medical Education.

**Table 1.**  
**Number of AOA-Approved Residency and Internship Programs and Trainees**  
**Filling Available Positions as Reported by State, 2014-2015 Academic Year<sup>a</sup>**

State	Internship Programs			Residency Programs <sup>b</sup>			Total		
	Programs	Positions	Trainees	Programs	Positions	Trainees	Programs	Positions	Trainees
Alabama	0	0	0	4	63	2	4	63	2
Alaska	0	0	0	1	17	6	1	17	6
Arizona	0	0	0	14	147	97	14	147	97
Arkansas	0	0	0	4	70	7	4	70	7
California	6	57	29	36	496	255	42	553	284
Colorado	1	8	0	10	148	65	11	156	65
Connecticut	2	18	8	3	38	26	5	56	34
District of Columbia	0	0	0	1	18	11	1	18	11
Delaware	1	15	12	1	24	11	2	39	23
Florida	9	142	79	97	1208	835	106	1350	914
Georgia	1	4	2	7	74	46	8	78	48
Idaho	0	0	0	1	12	3	1	12	3
Illinois	2	20	10	43	484	385	45	504	395
Indiana	0	0	0	4	45	24	4	45	24
Iowa	0	0	0	7	82	50	7	82	50
Kansas	0	0	0	1	20	21	1	20	21
Kentucky	2	14	6	10	117	42	12	131	48
Maine	0	0	0	7	78	42	7	78	42
Massachusetts	1	4	4	4	37	17	5	41	21
Michigan	18	182	60	211	2378	1648	229	2560	1708
Minnesota	0	0	0	1	8	7	1	8	7
Mississippi	0	0	0	5	66	29	5	66	29
Missouri	3	15	4	38	391	120	41	406	124

(continued)

**Table 1 (continued).**  
**Number of AOA-Approved Residency and Internship Programs and Trainees**  
**Filling Available Positions as Reported by State, 2014-2015 Academic Year<sup>a</sup>**

State	Internship Programs			Residency Programs <sup>b</sup>			Total		
	Programs	Positions	Trainees	Programs	Positions	Trainees	Programs	Positions	Trainees
Montana	0	0	0	2	22	9	2	22	9
Nevada	1	10	5	8	104	81	9	114	86
New Jersey	7	103	64	77	965	592	84	1068	656
New Mexico	0	0	0	2	36	0	2	36	0
New York	17	219	104	99	1250	714	116	1469	818
North Carolina	4	38	0	16	286	51	20	324	51
Ohio	8	87	33	109	1149	771	117	1236	804
Oklahoma	2	16	10	45	495	298	47	511	308
Oregon	1	12	11	12	124	85	13	136	96
Pennsylvania	23	184	93	119	1499	1002	142	1683	1095
Rhode Island	0	0	0	5	60	46	5	60	46
South Carolina	0	0	0	2	32	19	2	32	19
Tennessee	0	0	0	2	28	16	2	28	16
Texas	2	24	4	24	263	152	26	287	156
Utah	0	0	0	3	57	3	3	57	3
Virginia	3	27	15	17	278	188	20	305	203
Washington	0	0	0	10	131	84	10	131	84
West Virginia	5	33	15	19	204	135	24	237	150
Wisconsin	0	0	0	3	78	55	3	78	55
Wyoming	0	0	0	2	21	8	2	21	8
<b>Total</b>	<b>119</b>	<b>1232</b>	<b>568</b>	<b>1086</b>	<b>13,103</b>	<b>8058</b>	<b>1205</b>	<b>14,335</b>	<b>8626</b>

<sup>a</sup> Data shown represent positions approved by the American Osteopathic Association (AOA) Program and Trainee Review Council and are not necessarily all funded. Data are current as of May 31, 2015. No internship or residency programs were approved by the AOA during the 2014-2015 academic year in the following states: Hawaii, Louisiana, Maryland, Nebraska, New Hampshire, North Dakota, South Dakota, and Vermont.

<sup>b</sup> Residency data include fellowship programs, positions, and trainees.

**Source:** *Training Programs by State: Year-End Reports*, Division of Postdoctoral Training, AOA, Chicago, Illinois.

**Table 2.**  
**No. of AOA-Approved Residency Programs and Approved**  
**and Filled Positions as Reported by Academic Year and Specialty<sup>a</sup>**

Specialty	2012-2013			2013-2014			2014-2015		
	Programs	Positions	Residents	Programs	Positions	Residents	Programs	Positions	Residents
<b>Anesthesiology</b>	13	139	117	13	139	118	14	151	116
Anesthesiology and pain management	3	6	2	3	6	2	3	6	2
Pediatric anesthesiology	1	3	0	1	3	0	1	3	1
<b>Dermatology</b>	30	176	114	30	179	125	31	209	136
Mohs micrographic surgery	3	4	1	3	4	3	4	5	2
Pediatric dermatology	NA	NA	NA	NA	NA	NA	1	2	0
<b>Diagnostic Radiology</b>	17	199	127	17	195	128	16	187	114
Pediatric radiology	1	3	0	1	3	0	1	3	0
Vascular and interventional radiology	1	3	0	1	3	0	1	3	0
<b>Emergency Medicine</b>	50	1203	919	50	1215	953	59	1373	976
Emergency medical service	2	3	0	2	3	1	1	1	1
<b>Family Medicine</b>	215	3040	1731	227	3334	1982	252	3708	2170
Geriatrics (family medicine)	13	40	8	15	46	7	15	46	5
<b>Internal Medicine</b>	114	1967	1278	121	2223	1494	137	2728	1654
Cardiac electrophysiology	2	5	0	2	5	0	1	3	0
Cardiology	26	174	110	27	178	129	29	193	136
Cardiology (interventional)	13	30	9	13	29	11	13	28	11
Critical care medicine	6	23	9	7	27	6	7	27	11
Endocrinology	5	12	5	5	13	6	6	17	6
Gastroenterology	17	86	51	18	85	56	20	101	67
Geriatrics (internal medicine)	6	21	1	11	36	1	9	30	0
Hematology and oncology	7	24	13	7	24	14	6	21	16
Infectious diseases	4	16	3	4	16	4	5	20	6
Nephrology	8	22	13	8	22	11	10	29	9
Oncology	2	6	1	2	6	2	2	7	2
Pulmonary (critical care)	10	44	26	11	50	30	13	66	32
Pulmonary medicine	3	7	2	3	7	0	2	4	0
Rheumatology	5	16	8	4	12	9	4	12	10
Transplant hepatology	NA	NA	NA	1	2	0	1	2	0
<b>Neurology</b>	9	96	64	9	96	64	11	126	70
<b>NMM/OMM</b>	7	38	18	8	43	18	9	46	20
NMM plus 1	23	75	27	26	83	25	27	86	22

(continued)

**Table 2 (continued).**  
**No. of AOA-Approved Residency Programs and Approved  
 and Filled Positions as Reported by Academic Year and Specialty<sup>a</sup>**

Specialty	2012-2013			2013-2014			2014-2015		
	Programs	Positions	Residents	Programs	Positions	Residents	Programs	Positions	Residents
<b>Obstetrics and Gynecology</b>	30	375	296	33	409	300	34	421	314
Female pelvic medicine	1	3	0	1	3	0	2	4	1
Gynecological oncology	3	9	8	3	9	9	3	9	7
Maternal and fetal medicine	5	16	8	5	17	12	5	18	16
Reproductive endocrinology	3	9	1	3	9	1	3	9	1
<b>Ophthalmology</b>	15	71	55	15	71	56	15	82	56
<b>Orthopedic Surgery</b>	40	596	464	39	590	492	44	676	498
Hand surgery	1	3	1	1	3	0	1	3	1
Musculoskeletal oncology	1	1	0	1	1	0	1	1	0
<b>Otolaryngology and Facial Plastic Surgery</b>	19	139	121	19	139	121	21	154	111
Otolaryngic allergy	3	9	1	3	9	2	3	9	1
<b>Pathology</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forensic pathology	1	1	0	1	1	0	NA	NA	NA
<b>Pediatrics</b>	19	283	170	20	292	187	22	328	200
<b>Physical Medicine and Rehabilitation Medicine</b>	5	61	30	6	67	37	6	70	44
<b>Preventive Medicine and Public Health</b>	1	3	2	1	3	2	1	3	1
<b>Proctology</b>	2	5	2	2	5	2	2	5	2
<b>Psychiatry</b>	16	242	94	20	294	133	25	376	163
Child and adolescent psychiatry	4	18	6	4	18	8	5	22	7
Forensic psychiatry	1	4	0	1	4	0	1	4	0
Geriatric psychiatry	2	6	0	2	6	1	2	6	0
<b>Surgery (General)</b>	51	765	554	53	809	586	59	932	602
Cardiothoracic surgery	1	9	0	1	9	0	1	9	0
Critical care surgery	3	7	1	5	13	2	5	13	3
General vascular surgery	8	19	5	8	18	12	8	19	12
Neurologic surgery	11	114	95	10	108	97	12	131	95
Plastic and reconstructive surgery	7	26	15	8	29	14	8	32	16
Urologic surgery	10	108	95	10	107	92	11	123	94

(continued)

**Table 2 (continued).**  
**No. of AOA-Approved Residency Programs and Approved  
 and Filled Positions as Reported by Academic Year and Specialty<sup>a</sup>**

Specialty	2012-2013			2013-2014			2014-2015		
	Programs	Positions	Residents	Programs	Positions	Residents	Programs	Positions	Residents
<b>Combined</b>									
Emergency medicine and family medicine	4	53	45	3	52	43	3	52	42
Emergency medicine and internal medicine	11	122	74	11	122	76	9	105	71
Integrated family medicine/NMM	8	64	38	9	72	40	9	72	43
Integrated internal medicine/NMM	1	4	1	1	4	2	1	4	3
Pediatrics and internal medicine	1	10	7	1	10	7	1	10	6
<b>Conjoint<sup>b</sup></b>									
Addiction medicine	1	6	6	1	6	3	1	6	0
Adult/pediatric allergy and Immunology	2	10	5	2	10	8	2	10	10
Correctional medicine	1	4	0	2	6	0	2	6	0
Dermatopathology	1	2	0	2	4	2	2	4	2
Hospice and palliative medicine	7	17	2	12	28	6	15	34	7
Pain medicine	1	5	0	1	5	4	1	5	2
Pediatric emergency medicine	2	12	0	2	12	0	2	12	0
Sleep medicine	2	8	4	2	8	1	2	8	2
Sports medicine	20	57	19	23	64	25	24	71	30
Undersea and hyperbaric medicine	1	2	1	1	2	0	1	2	0
<b>Total</b>	<b>942</b>	<b>10,759</b>	<b>6883</b>	<b>998</b>	<b>11,535</b>	<b>7582</b>	<b>1086</b>	<b>13,103</b>	<b>8058</b>

<sup>a</sup> Approved positions are not necessarily funded. Data include fellowship programs, positions, and residents.

<sup>b</sup> *Addiction medicine, adult/pediatric allergy and immunology, correctional medicine, dermatopathology, hospice and palliative medicine, pain medicine, pediatric emergency medicine, sleep medicine, sports medicine, and undersea and hyperbaric medicine* are fellowships governed by Conjoint Standards by 2 or more specialties.

**Abbreviations:** AOA, American Osteopathic Association; NA, not available; NMM, neuromusculoskeletal medicine; OMM, osteopathic manipulative medicine.

**Sources:** AOA Intern/Resident Contracts received by the division of postdoctoral training for the academic years shown (taken annually on May 31); and the AOA's Trainee Information, Verification and Registration Audit (TIVRA) system, academic year 2014-2015. Data for the 2012-2013 and 2013-2014 academic years have been reported previously in *The Journal of the American Osteopathic Association*.

**Table 3.**  
**Net Growth From the 2013-2014 to 2014-2015 Academic Years of AOA-Approved Residency Programs and Approved and Filled Positions as Reported by Specialty<sup>a</sup>**

Specialty	No.		
	Programs	Positions	Residents
<b>Anesthesiology</b>	1	12	-2
Anesthesiology and pain management	0	0	0
Pediatric anesthesiology	0	0	1
<b>Dermatology</b>	1	30	11
Mohs micrographic surgery	1	1	-1
<b>Diagnostic radiology</b>	-1	-8	-14
Pediatric radiology	0	0	0
Vascular/interventional radiology	0	0	0
<b>Emergency Medicine</b>	9	158	23
Emergency medical service	-1	-2	0
<b>Family Medicine</b>	25	374	188
Geriatrics (family medicine)	0	0	-2
<b>Internal Medicine</b>	16	505	160
Cardiac electrophysiology	-1	-2	0
Cardiology	2	15	7
Cardiology (interventional)	0	-1	0
Critical care medicine	0	0	5
Endocrinology	1	4	0
Gastroenterology	2	16	11
Geriatrics (internal medicine)	-2	-6	-1
Hematology and oncology	-1	-3	2
Infectious diseases	1	4	2
Nephrology	2	7	-2
Oncology	0	1	0
Pulmonary (critical care)	2	16	2
Pulmonary medicine	-1	-3	0
Rheumatology	0	0	1
Transplant hepatology	0	0	0
<b>Neurology</b>	2	30	6
<b>NMM/OMM</b>	1	3	2
NMM plus 1	1	3	-3
<b>Obstetrics and Gynecology</b>	1	12	14
Female pelvic medicine	1	1	1
Gynecologic oncology	0	0	5
Maternal and fetal medicine	0	1	4
Reproductive endocrinology	0	0	0
<b>Ophthalmology</b>	0	11	0
<b>Orthopedic Surgery</b>	5	86	6
Hand surgery	0	0	1
Musculoskeletal oncology	0	0	0
<b>Otolaryngology and Facial Plastic Surgery</b>	2	15	-10
Otolaryngic allergy	0	0	-1
<b>Pathology</b>	NA	NA	NA
Forensic pathology	-1	-1	0
<b>Pediatrics</b>	2	36	13

(continued)

**Table 3 (continued).**  
**Net Growth From the 2013-2014 to 2014-2015 Academic Years of AOA-Approved Residency Programs and Approved and Filled Positions as Reported by Specialty<sup>a</sup>**

Specialty	No.		
	Programs	Positions	Residents
<b>Physical Medicine and Rehabilitation Medicine</b>	0	3	7
<b>Preventive Medicine and Public Health</b>	0	0	-1
<b>Proctology</b>	0	0	0
<b>Psychiatry</b>	5	82	30
Child and adolescent psychiatry	1	4	-1
Forensic psychiatry	0	0	0
Geriatric psychiatry	0	0	-1
<b>Surgery (General)</b>	6	123	16
Cardiothoracic surgery	0	0	0
Critical care surgery	0	0	1
General vascular surgery	0	1	0
Neurologic surgery	2	23	-2
Plastic and reconstructive surgery	0	3	2
Urologic surgery	1	16	2
<b>Combined</b>			
Emergency medicine and family medicine	0	0	-1
Emergency medicine and internal medicine	-2	-17	-5
Integrated family medicine/NMM	0	0	3
Integrated internal medicine/NMM	0	0	1
Pediatrics and internal medicine	0	0	-1
<b>Conjoint<sup>a</sup></b>			
Addiction medicine	0	0	-3
Adult and pediatric allergy/immunology	0	0	2
Correctional medicine	0	0	0
Dermatopathology	0	0	0
Hospice and palliative care	3	6	1
Pain medicine	0	0	-2
Pediatric emergency medicine	0	0	0
Sleep medicine	0	0	1
Sports medicine	1	7	5
Undersea and hyperbaric medicine	0	0	0
<b>Total</b>	<b>89</b>	<b>1569</b>	<b>483</b>

<sup>a</sup> Addiction medicine, adult/pediatric allergy and immunology, correctional medicine, dermatopathology, hospice and palliative medicine, pain medicine, pediatric emergency medicine, sleep medicine, sports medicine, and undersea and hyperbaric medicine are fellowships governed by Conjoint Standards by 2 or more specialties.

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