

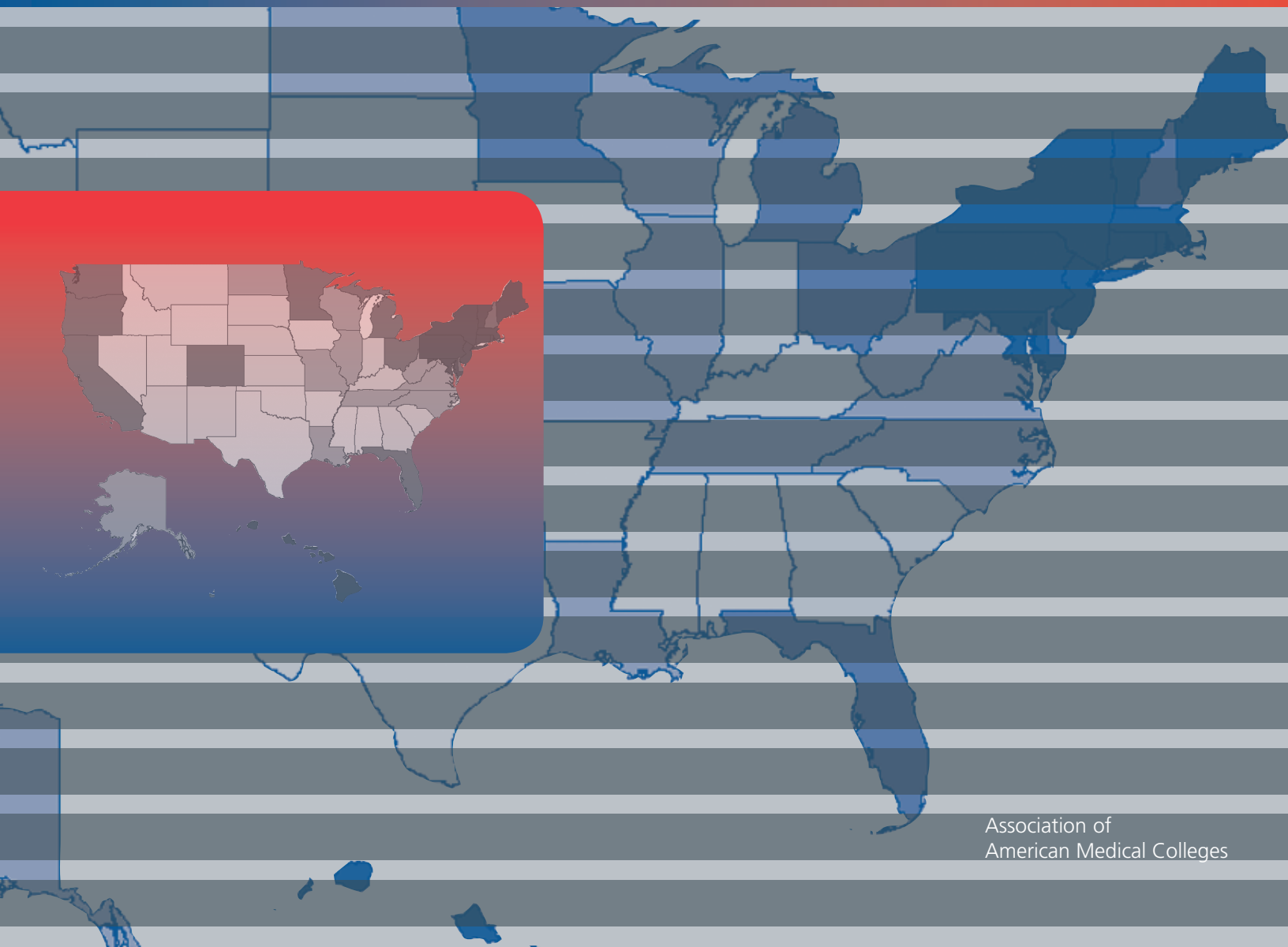


Tomorrow's Doctors, Tomorrow's Cures®

# 2011 State Physician Workforce Data Book

Center for Workforce Studies

November 2011



## Acknowledgments

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The *2011 State Physician Workforce Data Book* can be viewed and downloaded on the Internet at [www.aamc.org/workforce](http://www.aamc.org/workforce).

The Center for Workforce Studies welcomes your comments and suggestions for future editions of this report.

Please send comments, suggestions, or questions to:

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## Introduction

The 2011 State Physician Workforce Data Book is an update of the 2009 State Physician Workforce Data Book, examining current physician supply, medical school enrollment, and graduate medical education in the United States. The report provides the most current data available for each state and the District of Columbia in a series of figures and tables, including the U.S. average, state median (excluding DC)<sup>1</sup>, and state rank. Additionally, the 2011 edition includes a summary table that compares the state median for the physician workforce measures in 2008 and 2010.

The Data Book is divided into four sections:

**Section 1: Physician Supply.** This section includes data on active physicians in each state, including physician-to-population ratios, percent female, age distribution, and type of medical education. Data by race and ethnicity were not available.

**Section 2: Medical and Osteopathic School Enrollment.** This section provides information on enrollment for both medical and osteopathic schools, as well as data on in-state matriculation. Alaska, Delaware, Idaho, Montana, and Wyoming do not have medical schools, but four of those states (Alaska, Idaho, Montana, and Wyoming) have an agreement with the University of Washington to reserve slots for residents of those four states at the University of Washington School of Medicine. For this report, all students at the University of Washington Medical School are counted in Washington and not in other states.

**Section 3: Graduate Medical Education.** This section presents data on physicians in residency and fellowship positions in each state, including physician-to-population ratios, degree type, and location of medical school. Data in this section include M.D.s and D.O.s training in programs accredited by the Accreditation Council for Graduate Medical Education (ACGME). Where possible, data for physicians training in programs accredited by the American Osteopathic Association (AOA) are also included.

**Section 4: In-State Retention.** This section presents data on states' retention of the physicians they educate in medical or osteopathic schools and train in graduate medical education (GME) programs.

The primary data sources for this report are:

The American Medical Association (AMA) Physician Masterfile (December 31, 2010); Population estimates from the U.S. Census Bureau; The AAMC Student Record System; The American Association of Colleges of Osteopathic Medicine; The American Osteopathic Association; and The National GME Census, which is jointly conducted by the AAMC and the AMA.

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<sup>1</sup> The U.S. average differs from the state median. The U.S. average is calculated by summing the values for all 50 states and the District of Columbia, and dividing the sum by 51. The state median, on the other hand, excludes D.C. and is the value directly in the middle of the 50 states, so 25 states are above the state median and 25 states are below the state median.

## Key Definitions

**Active physicians:** Physicians who report working in administration, direct patient care, medical research, medical teaching, or other non-patient care activities are considered active. Physicians whose major professional activity is unclassified are also considered active. Physicians who are classified as retired, semi-retired, temporarily not in practice, not active for other reasons, residents, or fellows are excluded.

These data refer to physicians who are active in the 50 states of the United States and the District of Columbia—regardless of where they attended medical or osteopathic school. Physicians active in other areas, such as Puerto Rico and other US territories, are excluded. To determine whether or not an active physician is in the United States, the location of the physician's office was used. In cases where the office state was missing, the state from the preferred mailing address was used. This substitution occurred for approximately 13 percent of cases among all active physicians.

**Active patient care physicians:** This group is a subset of active physicians. It comprises only those physicians whose self-reported type of practice is direct patient care.

**U.S.M.D.:** Physicians who received their Doctor of Medicine (M.D.) degree from a medical school in the United States or Puerto Rico. Graduates of Canadian medical schools are not counted as U.S.M.D.s.

**D.O.:** Physicians who received their Doctor of Osteopathy (D.O.) degree from a U.S. osteopathic school accredited by the American Osteopathic Association.

**International medical graduate (IMG):** An individual who graduated from a medical school outside of the United States, Puerto Rico, or Canada is considered an international medical graduate (IMG). This includes U.S. citizens who completed their medical education outside the United States, Puerto Rico, or Canada.

To be eligible for licensure and practice in the United States, all IMGs must be certified by the Educational Commission for Foreign Medical Graduates (ECFMG) and complete a residency training program in the United States. Graduates of Canadian medical schools are not considered IMGs because they do not have to be certified by the ECFMG to enter a residency training program in the US. Please note that although graduates of Canadian medical schools who are practicing in the US are not considered IMGs or U.S.M.D.s, they are included in the total for active physicians.

**Primary care physicians:** Physicians are counted as primary care physicians if their self-designated primary specialty is one of the following: adolescent medicine, family medicine, general practice, geriatric medicine, internal medicine, internal medicine/pediatrics, or pediatrics. Residents and fellows are counted as primary care residents and fellows if they are in one of the following programs: adolescent medicine (pediatrics), family medicine, geriatric medicine (family medicine), geriatric medicine (internal medicine), geriatric medicine/family practice, geriatric medicine/internal medicine, internal medicine, internal medicine/family practice, internal medicine/pediatrics or pediatrics. In the 2009 State Physician Workforce Data Book the residency program of internal medicine/preventive medicine was considered primary care, but it is not in this edition. There are 29 residents in internal medicine/preventive medicine program in 2010.

**Residents:** Physicians who have completed undergraduate medical education and are at any level of training in an ACGME- or AOA-accredited training program.

**Fellows:** Physicians who have completed a residency and are pursuing further training in a subspecialty through a fellowship program accredited by the ACGME.

**Medical school:** A school that confers the Doctor of Medicine (M.D.) degree and is accredited by the Liaison Committee on Medical Education.

**Osteopathic school:** A school that confers the Doctor of Osteopathy (D.O.) degree and is accredited by the American Osteopathic Association.

## Commonly Used Acronyms

**AACOM** Association of American Colleges of Osteopathic Medicine

**AAMC** Association of American Medical Colleges

**ACGME** Accreditation Council for Graduate Medical Education

**AMA** American Medical Association

**AOA** American Osteopathic Association

**DO** Doctor of Osteopathy

**GME** Graduate Medical Education

**IMG** International Medical Graduate

**MD** Doctor of Medicine

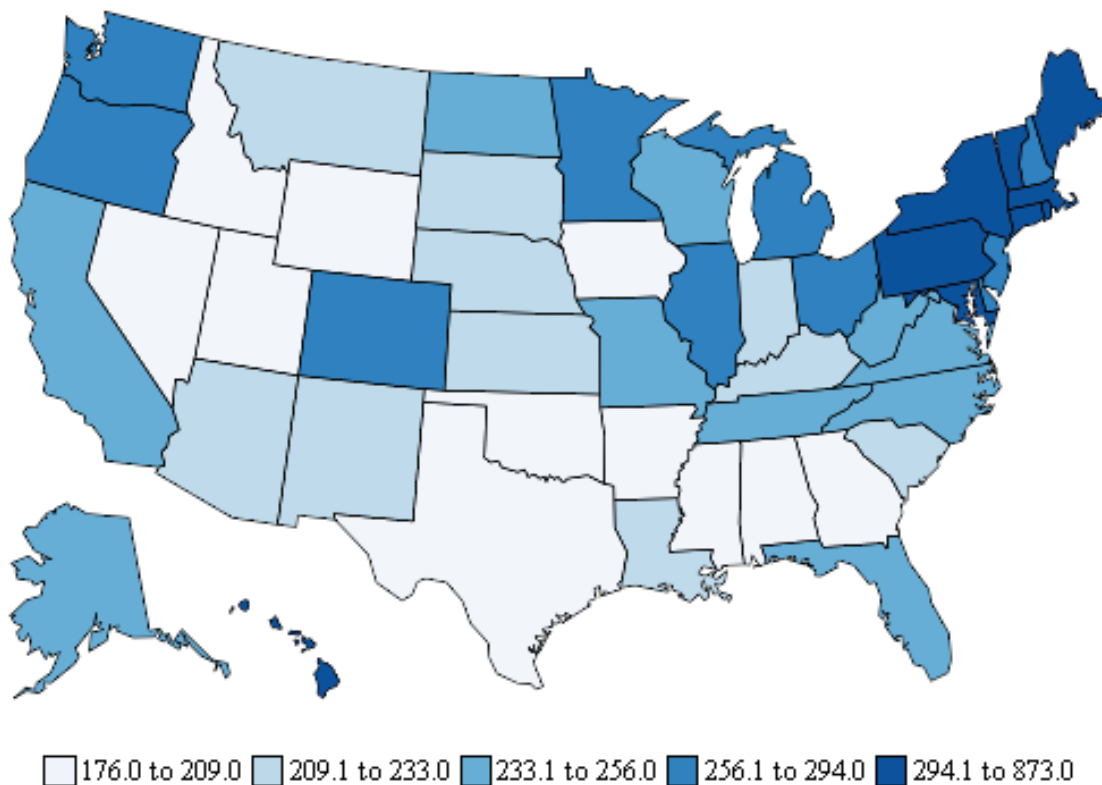
**OGME** Osteopathic Graduate Medical Education

**UME** Undergraduate Medical Education

## Key Findings – Physician Supply

- In 2010, there were 258.7 active physicians per 100,000 population in the United States, ranging from a high of 415.5 in Massachusetts to a low of 176.4 in Mississippi. The states with the highest number of physicians per 100,000 population were concentrated in the northeast (see Map 1, Figure 1, and Table 1).

**Map 1. Total Active Physicians per 100,000 Population, 2010**

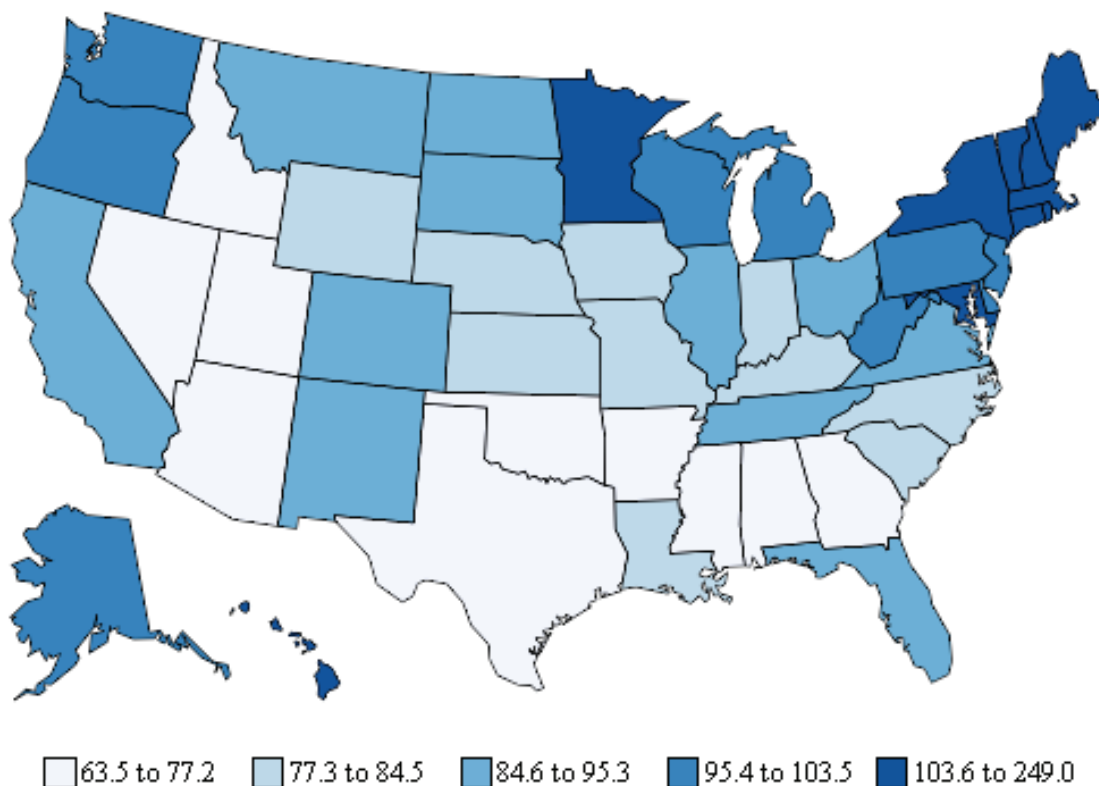


Source: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011). Physician data are from the AMA Physician Masterfile (December 31, 2010).



- Nationally in 2010, there were 219.5 physicians active in patient care<sup>2</sup> per 100,000 population. Massachusetts had the highest number of patient care physicians per 100,000 population (314.8), while Mississippi had the lowest (159.4) (see Figure 2 and Table 2).
- There were 90.5 primary care physicians per 100,000 population in the United States in 2010. Once again, Massachusetts ranked highest with 132.0 while Mississippi had the lowest number of primary care physicians per 100,000 population (63.6). The distribution of primary care physicians per 100,000 population was very similar to the distribution of all physicians per 100,000 population (see Map 2, Figure 3, and Table 3).

**Map 2. Primary Care Physicians per 100,000 Population, 2010**

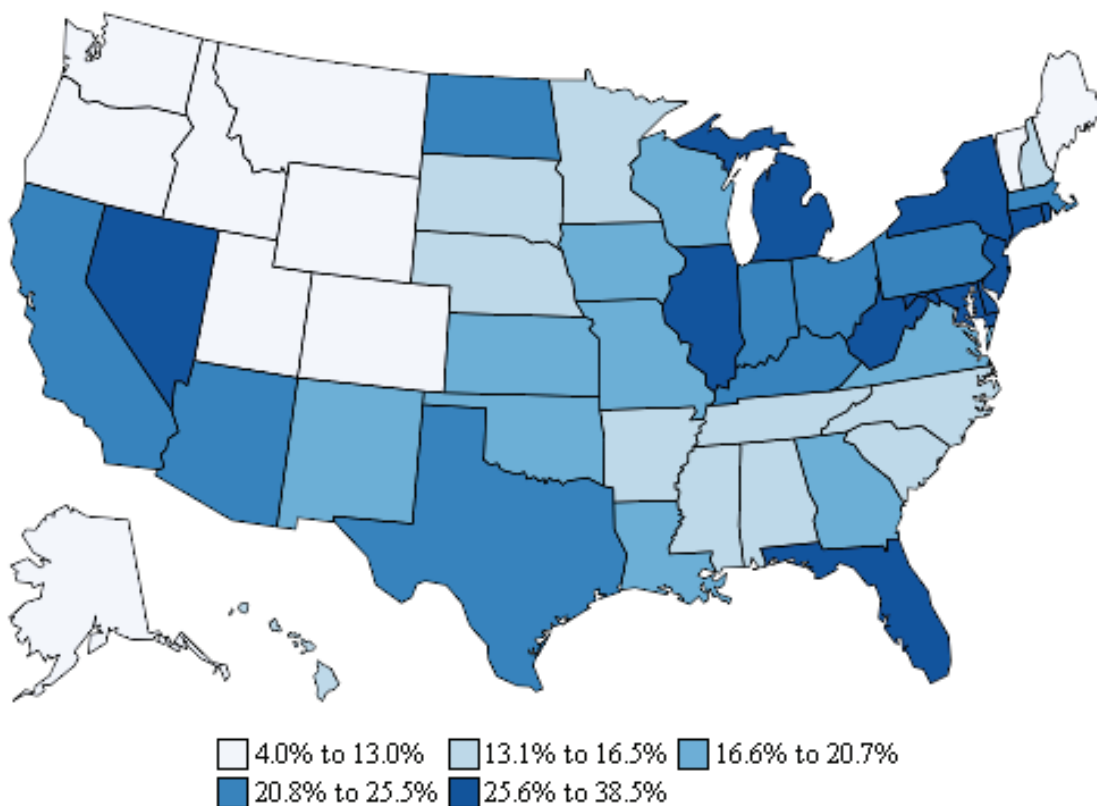


Source: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011). Physician data are from the AMA Physician Masterfile (December 31, 2010).

<sup>2</sup> This refers to physicians whose type of practice is categorized as patient care. Physicians whose type of practice is administration, medical research, medical teaching, or other non-patient care activities are not included here.

- In 2010, there were 79.4 primary care physicians active in patient care per 100,000 population in the United States, ranging from a low of 58.4 in Utah to a high of 111.5 in Vermont. In Oklahoma and Iowa, D.O.s represented more than one quarter of the patient care primary care physicians. Nationally, D.O.s comprised approximately 10 percent of active patient care primary care physicians (see Figure 4 and Table 4).
- In 2010, more than one third (36.6 percent) of active physicians in Massachusetts were female. Idaho had the lowest percentage of female physicians (21.0). Nationally, 30.4 percent of active physicians were female (see Figure 5 and Table 5).
- In 2010, states varied widely in the percentage of their physician workforce that graduated from an international medical school<sup>3</sup> (see Map 3, Figure 6, and Table 6). Nationally, 24.0 percent of the physician workforce was IMGs. New Jersey and New York had the highest percentages (39.1 and 38.3 percent, respectively), while Montana and Idaho had the lowest (4.6 and 4.0 percent, respectively).

Map 3. Percentage of Active Physicians Who Are IMGs, 2010



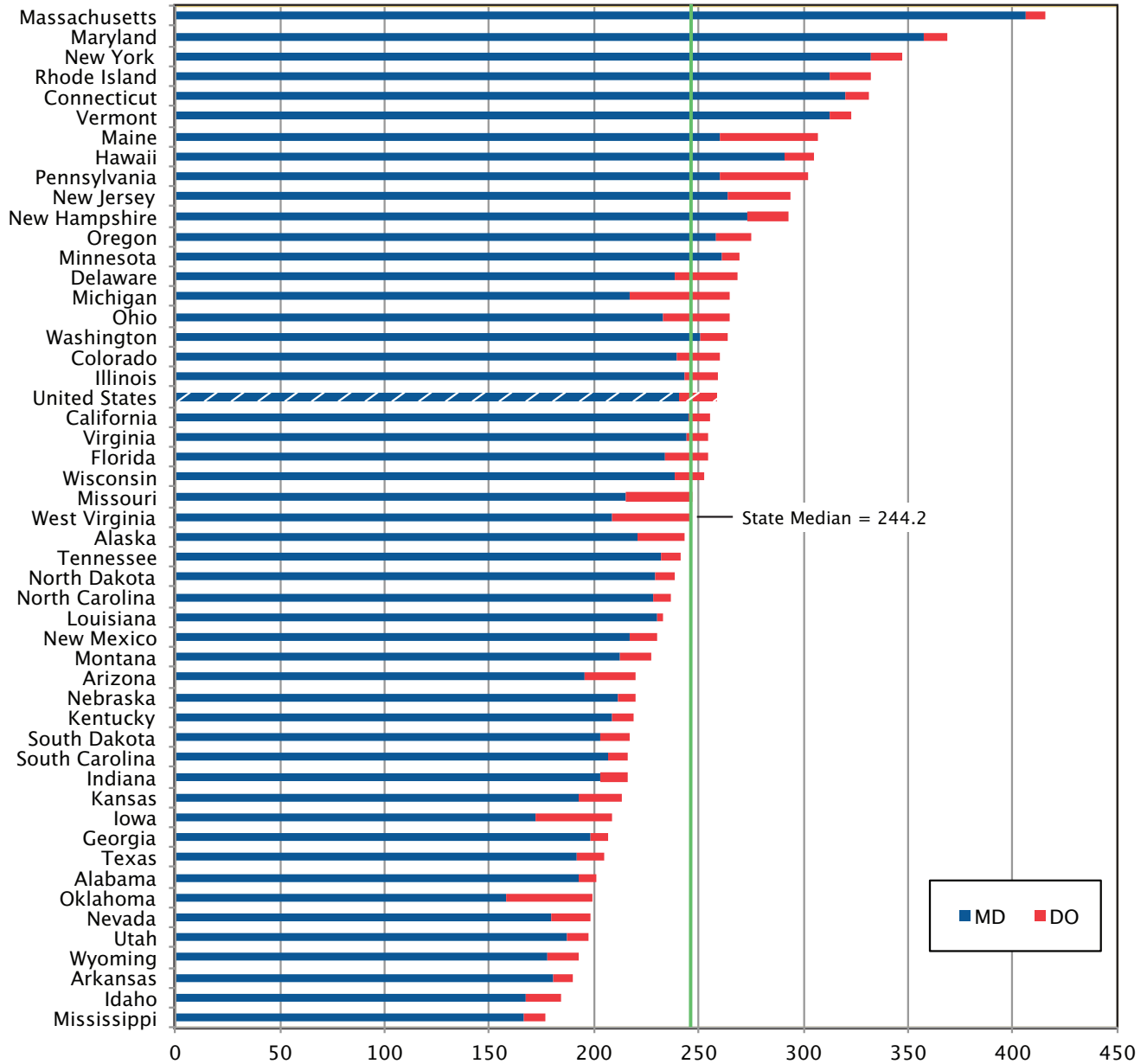
Source: AMA Physician Masterfile (December 31, 2010).

<sup>3</sup> Graduates from Canadian medical schools are not considered IMGs. See Key Definitions for more information.



- Nationally, over one fourth (26.3 percent) of the active physician workforce was age 60 or older. There was some variation among the states in the percentage of physicians who were age 60 or older in 2010. New Mexico had the highest percentage (30.8), while North Carolina had the lowest percentage (20.8) (see Figure 7 and Table 7).

Figure 1. Active Physicians per 100,000 Population by Degree Type, 2010



Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the 2011 AMA Physician Masterfile (December 31, 2010). Physicians whose medical school type was not available are excluded (n=67).

**Table 1. Active Physicians per 100,000 Population by Degree Type, 2010**

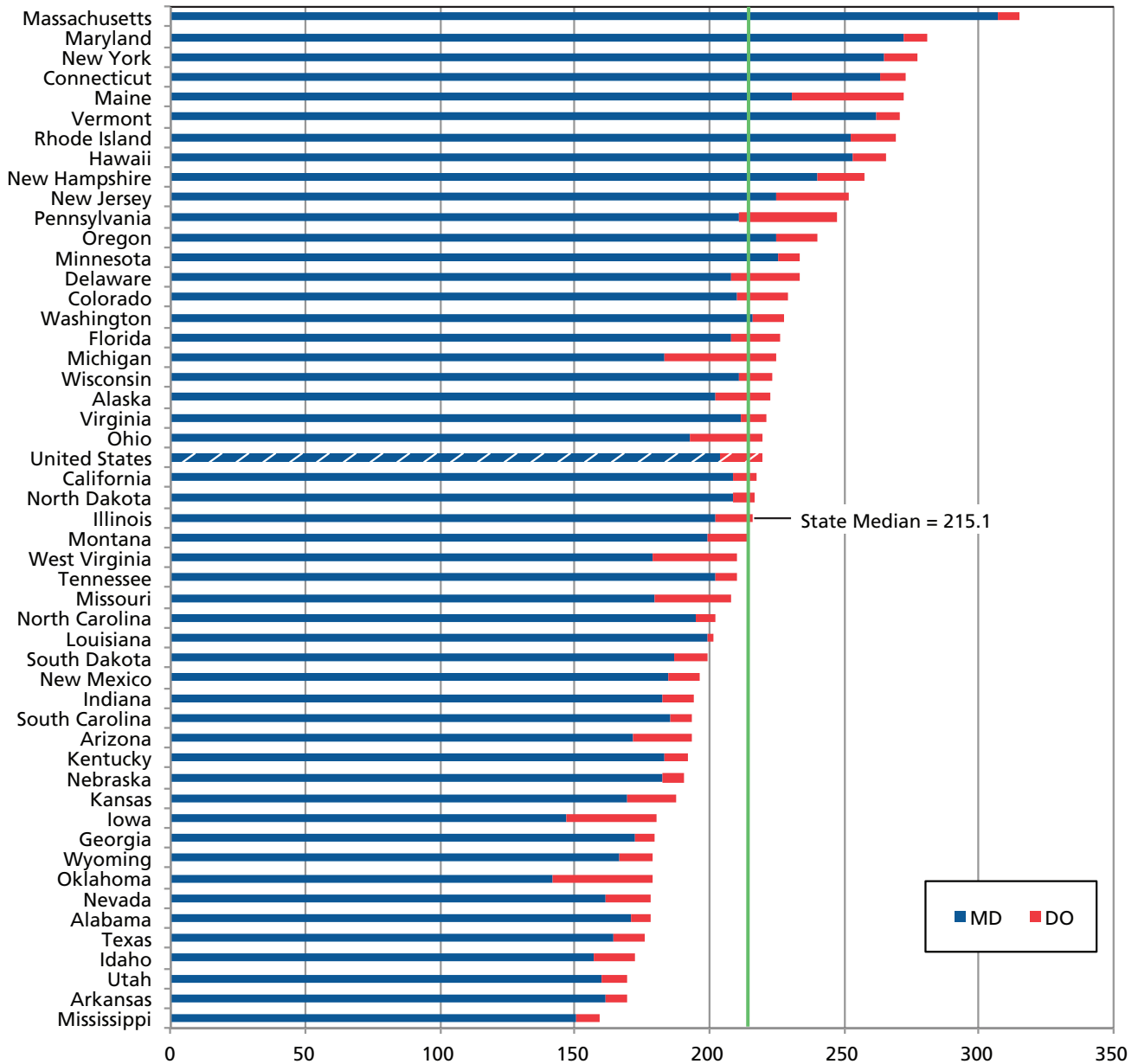
	Total Population	Total Active Physicians*			Active M.D.s		Active D.O.s	
		Number	Rate per 100,000	Rank	Number	Rate per 100,000	Number	Rate per 100,000
United States	309,050,816	799,509	258.7	N.R.	744,224	240.8	55,218	17.9
Alabama	4,729,656	9,508	201.0	43	9,126	193.0	382	8.1
Alaska	708,862	1,721	242.8	26	1,565	220.8	156	22.0
Arizona	6,676,627	14,694	220.1	33	13,027	195.1	1,665	24.9
Arkansas	2,910,236	5,518	189.6	48	5,265	180.9	253	8.7
California	37,266,600	95,198	255.5	20	91,497	245.5	3,697	9.9
Colorado	5,095,309	13,243	259.9	18	12,202	239.5	1,041	20.4
Connecticut	3,526,937	11,678	331.1	5	11,282	319.9	396	11.2
Delaware	891,464	2,393	268.4	14	2,124	238.3	269	30.2
District of Columbia	610,589	5,327	872.4	N.R.	5,211	853.4	116	19.0
Florida	18,678,049	47,590	254.8	22	43,651	233.7	3,933	21.1
Georgia	9,908,357	20,511	207.0	41	19,674	198.6	836	8.4
Hawaii	1,300,086	3,970	305.4	8	3,782	290.9	188	14.5
Idaho	1,559,796	2,873	184.2	49	2,610	167.3	263	16.9
Illinois	12,944,410	33,594	259.5	19	31,421	242.7	2,170	16.8
Indiana	6,445,295	13,900	215.7	38	13,052	202.5	847	13.1
Iowa	3,023,081	6,294	208.2	40	5,204	172.1	1,090	36.1
Kansas	2,841,121	6,058	213.2	39	5,467	192.4	591	20.8
Kentucky	4,339,435	9,479	218.4	35	9,039	208.3	439	10.1
Louisiana	4,529,426	10,541	232.7	30	10,425	230.2	116	2.6
Maine	1,312,939	4,031	307.0	7	3,420	260.5	611	46.5
Maryland	5,737,274	21,153	368.7	2	20,511	357.5	641	11.2
Massachusetts	6,631,280	27,550	415.5	1	26,912	405.8	627	9.5
Michigan	9,931,235	26,325	265.1	15	21,595	217.4	4,727	47.6
Minnesota	5,290,447	14,262	269.6	13	13,791	260.7	470	8.9
Mississippi	2,960,467	5,221	176.4	50	4,916	166.1	304	10.3
Missouri	6,011,741	14,825	246.6	24	12,932	215.1	1,892	31.5
Montana	980,152	2,232	227.7	32	2,077	211.9	155	15.8
Nebraska	1,811,072	3,981	219.8	34	3,829	211.4	150	8.3
Nevada	2,654,751	5,264	198.3	45	4,771	179.7	493	18.6
New Hampshire	1,323,531	3,872	292.6	11	3,613	273.0	257	19.4
New Jersey	8,732,811	25,629	293.5	10	23,000	263.4	2,629	30.1
New Mexico	2,033,875	4,673	229.8	31	4,418	217.2	255	12.5
New York	19,577,730	68,042	347.5	3	64,943	331.7	3,093	15.8
North Carolina	9,458,888	22,367	236.5	29	21,561	227.9	806	8.5
North Dakota	653,778	1,558	238.3	28	1,499	229.3	59	9.0
Ohio	11,532,111	30,485	264.3	16	26,819	232.6	3,665	31.8
Oklahoma	3,724,447	7,406	198.8	44	5,873	157.7	1,532	41.1
Oregon	3,855,536	10,594	274.8	12	9,967	258.5	627	16.3
Pennsylvania	12,632,780	38,207	302.4	9	32,857	260.1	5,348	42.3
Rhode Island	1,056,870	3,515	332.6	4	3,303	312.5	210	19.9
South Carolina	4,596,958	9,922	215.8	37	9,485	206.3	437	9.5
South Dakota	820,077	1,779	216.9	36	1,662	202.7	117	14.3
Tennessee	6,338,112	15,302	241.4	27	14,720	232.2	581	9.2
Texas	25,213,445	51,691	205.0	42	48,255	191.4	3,435	13.6
Utah	2,830,753	5,598	197.8	46	5,288	186.8	310	11.0
Vermont	622,433	2,008	322.6	6	1,945	312.5	63	10.1
Virginia	7,952,119	20,270	254.9	21	19,426	244.3	842	10.6
Washington	6,746,199	17,796	263.8	17	16,910	250.7	878	13.0
West Virginia	1,825,513	4,485	245.7	25	3,815	209.0	670	36.7
Wisconsin	5,668,519	14,319	252.6	23	13,512	238.4	804	14.2
Wyoming	547,637	1,057	193.0	47	975	178.0	82	15.0

Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the 2011 AMA Physician Masterfile (December 31, 2010).

N.R. = Not Ranked

\* Physicians whose medical school type was unavailable (n=67) are included in the total.

Figure 2. Active Patient Care Physicians per 100,000 Population by Degree Type, 2010



Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the 2011 AMA Physician Masterfile (December 31, 2010). Physicians whose medical school type was not available are excluded (n=29).

**Table 2. Active Patient Care Physicians per 100,000 Population by Degree Type, 2010**

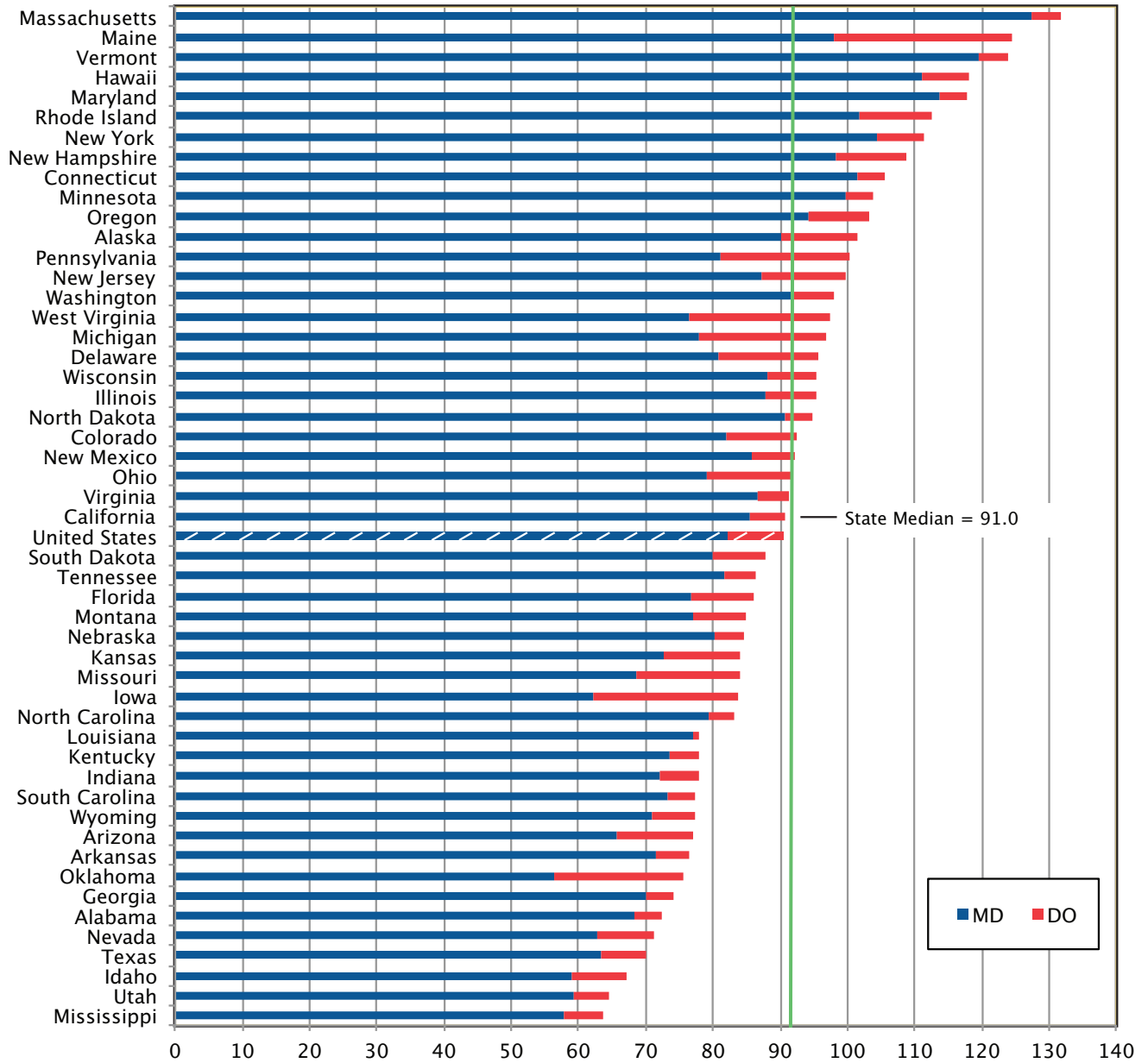
	Total Population	Total Active Patient Care Physicians*			Active Patient Care M.D.s		Active Patient Care D.O.s	
		Number	Rate per 100,000	Rank	Number	Rate per 100,000	Number	Rate per 100,000
United States	309,050,816	678,324	219.5	N.R.	630,370	204.0	47,925	15.5
Alabama	4,729,656	8,418	178.0	45	8,074	170.7	344	7.3
Alaska	708,862	1,575	222.2	20	1,435	202.4	140	19.7
Arizona	6,676,627	12,904	193.3	36	11,432	171.2	1,471	22.0
Arkansas	2,910,236	4,921	169.1	49	4,693	161.3	228	7.8
California	37,266,600	81,017	217.4	23	77,870	209.0	3,147	8.4
Colorado	5,095,309	11,663	228.9	15	10,698	210.0	965	18.9
Connecticut	3,526,937	9,628	273.0	4	9,298	263.6	330	9.4
Delaware	891,464	2,079	233.2	14	1,851	207.6	228	25.6
District of Columbia	610,589	3,741	612.7	N.R.	3,668	600.7	73	12.0
Florida	18,678,049	42,302	226.5	17	38,785	207.7	3,514	18.8
Georgia	9,908,357	17,823	179.9	41	17,100	172.6	723	7.3
Hawaii	1,300,086	3,452	265.5	8	3,294	253.4	158	12.2
Idaho	1,559,796	2,691	172.5	47	2,449	157.0	242	15.5
Illinois	12,944,410	27,935	215.8	25	26,125	201.8	1,809	14.0
Indiana	6,445,295	12,536	194.5	34	11,764	182.5	772	12.0
Iowa	3,023,081	5,459	180.6	40	4,443	147.0	1,016	33.6
Kansas	2,841,121	5,339	187.9	39	4,809	169.3	530	18.7
Kentucky	4,339,435	8,318	191.7	37	7,967	183.6	351	8.1
Louisiana	4,529,426	9,109	201.1	31	9,017	199.1	92	2.0
Maine	1,312,939	3,572	272.1	5	3,029	230.7	543	41.4
Maryland	5,737,274	16,120	281.0	2	15,616	272.2	503	8.8
Massachusetts	6,631,280	20,878	314.8	1	20,372	307.2	500	7.5
Michigan	9,931,235	22,344	225.0	18	18,187	183.1	4,157	41.9
Minnesota	5,290,447	12,363	233.7	13	11,932	225.5	431	8.1
Mississippi	2,960,467	4,718	159.4	50	4,450	150.3	267	9.0
Missouri	6,011,741	12,514	208.2	29	10,817	179.9	1,697	28.2
Montana	980,152	2,101	214.4	26	1,955	199.5	146	14.9
Nebraska	1,811,072	3,444	190.2	38	3,310	182.8	134	7.4
Nevada	2,654,751	4,728	178.1	44	4,292	161.7	436	16.4
New Hampshire	1,323,531	3,407	257.4	9	3,174	239.8	232	17.5
New Jersey	8,732,811	21,958	251.4	10	19,655	225.1	2,303	26.4
New Mexico	2,033,875	3,987	196.0	33	3,757	184.7	230	11.3
New York	19,577,730	54,306	277.4	3	51,767	264.4	2,535	12.9
North Carolina	9,458,888	19,096	201.9	30	18,410	194.6	686	7.3
North Dakota	653,778	1,418	216.9	24	1,365	208.8	53	8.1
Ohio	11,532,111	25,315	219.5	22	22,262	193.0	3,053	26.5
Oklahoma	3,724,447	6,655	178.7	43	5,286	141.9	1,369	36.8
Oregon	3,855,536	9,243	239.7	12	8,675	225.0	568	14.7
Pennsylvania	12,632,780	31,250	247.4	11	26,679	211.2	4,571	36.2
Rhode Island	1,056,870	2,843	269.0	7	2,669	252.5	174	16.5
South Carolina	4,596,958	8,902	193.6	35	8,520	185.3	382	8.3
South Dakota	820,077	1,636	199.5	32	1,533	186.9	103	12.6
Tennessee	6,338,112	13,307	210.0	28	12,800	202.0	507	8.0
Texas	25,213,445	44,395	176.1	46	41,383	164.1	3,011	11.9
Utah	2,830,753	4,798	169.5	48	4,518	159.6	280	9.9
Vermont	622,433	1,685	270.7	6	1,632	262.2	53	8.5
Virginia	7,952,119	17,570	220.9	21	16,855	212.0	714	9.0
Washington	6,746,199	15,366	227.8	16	14,569	216.0	789	11.7
West Virginia	1,825,513	3,841	210.4	27	3,264	178.8	577	31.6
Wisconsin	5,668,519	12,675	223.6	19	11,953	210.9	721	12.7
Wyoming	547,637	979	178.8	42	912	166.5	67	12.2

Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the AMA Physician Masterfile (December 31, 2010).

N.R. = Not Ranked

\*Physicians' medical school type was unavailable (n=29) are included in the total.

Figure 3. Active Primary Care Physicians per 100,000 Population by Degree Type, 2010



Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the 2011 AMA Physician Masterfile (December 31, 2010). Physicians whose medical school type was unavailable are excluded (n=29).



**Table 3. Active Primary Care Physicians per 100,000 Population by Degree Type, 2010**

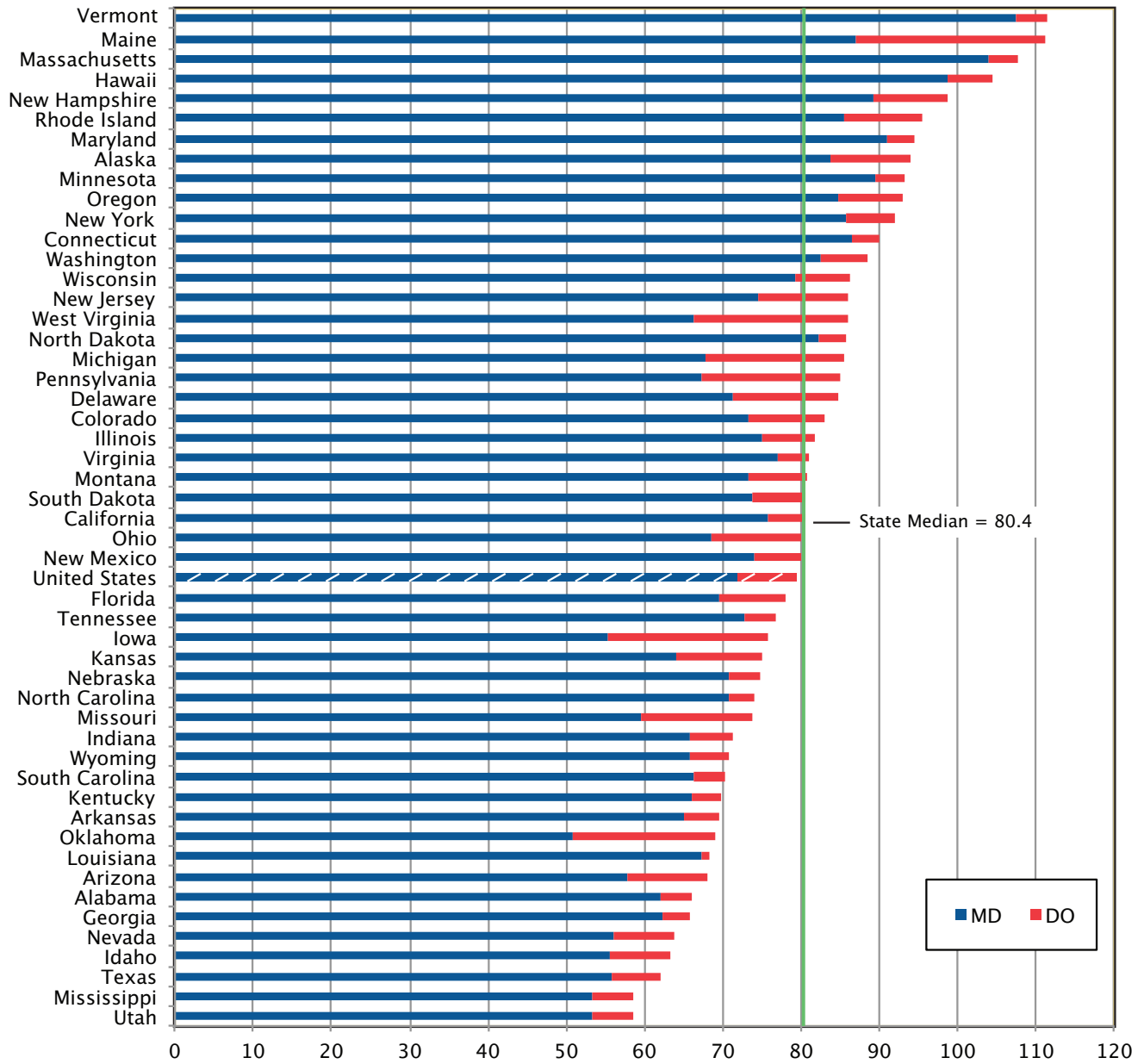
	Total Population	Total Active Primary Care Physicians*			Active Primary Care M.D.s		Active Primary Care D.O.s	
		Number	Rate per 100,000	Rank	Number	Rate per 100,000	Number	Rate per 100,000
United States	309,050,816	279,719	90.5	N.R.	254,217	82.3	25,473	8.2
Alabama	4,729,656	3,419	72.3	45	3,230	68.3	189	4.0
Alaska	708,862	719	101.4	12	638	90.0	81	11.4
Arizona	6,676,627	5,151	77.1	41	4,390	65.8	760	11.4
Arkansas	2,910,236	2,223	76.4	42	2,080	71.5	143	4.9
California	37,266,600	33,822	90.8	26	31,875	85.5	1,947	5.2
Colorado	5,095,309	4,704	92.3	22	4,173	81.9	531	10.4
Connecticut	3,526,937	3,725	105.6	9	3,577	101.4	148	4.2
Delaware	891,464	852	95.6	18	721	80.9	131	14.7
District of Columbia	610,589	1,520	248.9	N.R.	1,480	242.4	40	6.6
Florida	18,678,049	16,060	86.0	29	14,345	76.8	1,711	9.2
Georgia	9,908,357	7,335	74.0	44	6,942	70.1	393	4.0
Hawaii	1,300,086	1,535	118.1	4	1,444	111.1	91	7.0
Idaho	1,559,796	1,048	67.2	48	921	59.0	127	8.1
Illinois	12,944,410	12,336	95.3	20	11,355	87.7	980	7.6
Indiana	6,445,295	5,015	77.8	38	4,639	72.0	376	5.8
Iowa	3,023,081	2,530	83.7	34	1,882	62.3	648	21.4
Kansas	2,841,121	2,387	84.0	32	2,061	72.5	326	11.5
Kentucky	4,339,435	3,378	77.8	37	3,192	73.6	185	4.3
Louisiana	4,529,426	3,532	78.0	36	3,483	76.9	49	1.1
Maine	1,312,939	1,636	124.6	2	1,288	98.1	348	26.5
Maryland	5,737,274	6,755	117.7	5	6,521	113.7	234	4.1
Massachusetts	6,631,280	8,751	132.0	1	8,449	127.4	295	4.4
Michigan	9,931,235	9,609	96.8	17	7,737	77.9	1,872	18.8
Minnesota	5,290,447	5,492	103.8	10	5,270	99.6	222	4.2
Mississippi	2,960,467	1,882	63.6	50	1,714	57.9	167	5.6
Missouri	6,011,741	5,043	83.9	33	4,126	68.6	917	15.3
Montana	980,152	833	85.0	30	756	77.1	77	7.9
Nebraska	1,811,072	1,530	84.5	31	1,451	80.1	79	4.4
Nevada	2,654,751	1,889	71.2	46	1,669	62.9	220	8.3
New Hampshire	1,323,531	1,440	108.8	8	1,301	98.3	138	10.4
New Jersey	8,732,811	8,702	99.6	14	7,614	87.2	1,088	12.5
New Mexico	2,033,875	1,874	92.1	23	1,742	85.6	132	6.5
New York	19,577,730	21,824	111.5	7	20,462	104.5	1,357	6.9
North Carolina	9,458,888	7,864	83.1	35	7,500	79.3	364	3.8
North Dakota	653,778	619	94.7	21	593	90.7	26	4.0
Ohio	11,532,111	10,552	91.5	24	9,113	79.0	1,439	12.5
Oklahoma	3,724,447	2,817	75.6	43	2,101	56.4	716	19.2
Oregon	3,855,536	3,976	103.1	11	3,630	94.2	346	9.0
Pennsylvania	12,632,780	12,673	100.3	13	10,229	81.0	2,444	19.3
Rhode Island	1,056,870	1,190	112.6	6	1,075	101.7	115	10.9
South Carolina	4,596,958	3,559	77.4	39	3,365	73.2	194	4.2
South Dakota	820,077	719	87.7	27	656	80.0	63	7.7
Tennessee	6,338,112	5,467	86.3	28	5,173	81.6	294	4.6
Texas	25,213,445	17,659	70.0	47	15,984	63.4	1,674	6.6
Utah	2,830,753	1,828	64.6	49	1,677	59.2	151	5.3
Vermont	622,433	772	124.0	3	744	119.5	28	4.5
Virginia	7,952,119	7,251	91.2	25	6,896	86.7	355	4.5
Washington	6,746,199	6,612	98.0	15	6,172	91.5	434	6.4
West Virginia	1,825,513	1,777	97.3	16	1,395	76.4	382	20.9
Wisconsin	5,668,519	5,410	95.4	19	4,998	88.2	411	7.3
Wyoming	547,637	423	77.2	40	388	70.8	35	6.4

Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the AMA Physician Masterfile (December 31, 2010).

N.R. = Not Ranked

\* Physicians whose medical school type was unavailable (n=29) are included in the total.

**Figure 4. Active Patient Care Primary Care Physicians per 100,000 Population by Degree Type, 2010**



Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the 2011 AMA Physician Masterfile (December 31, 2010). Physicians whose medical school type was unavailable are excluded (n=22).

**Table 4. Active Patient Care Primary Care Physicians 100,000 Population by Degree Type, 2010**

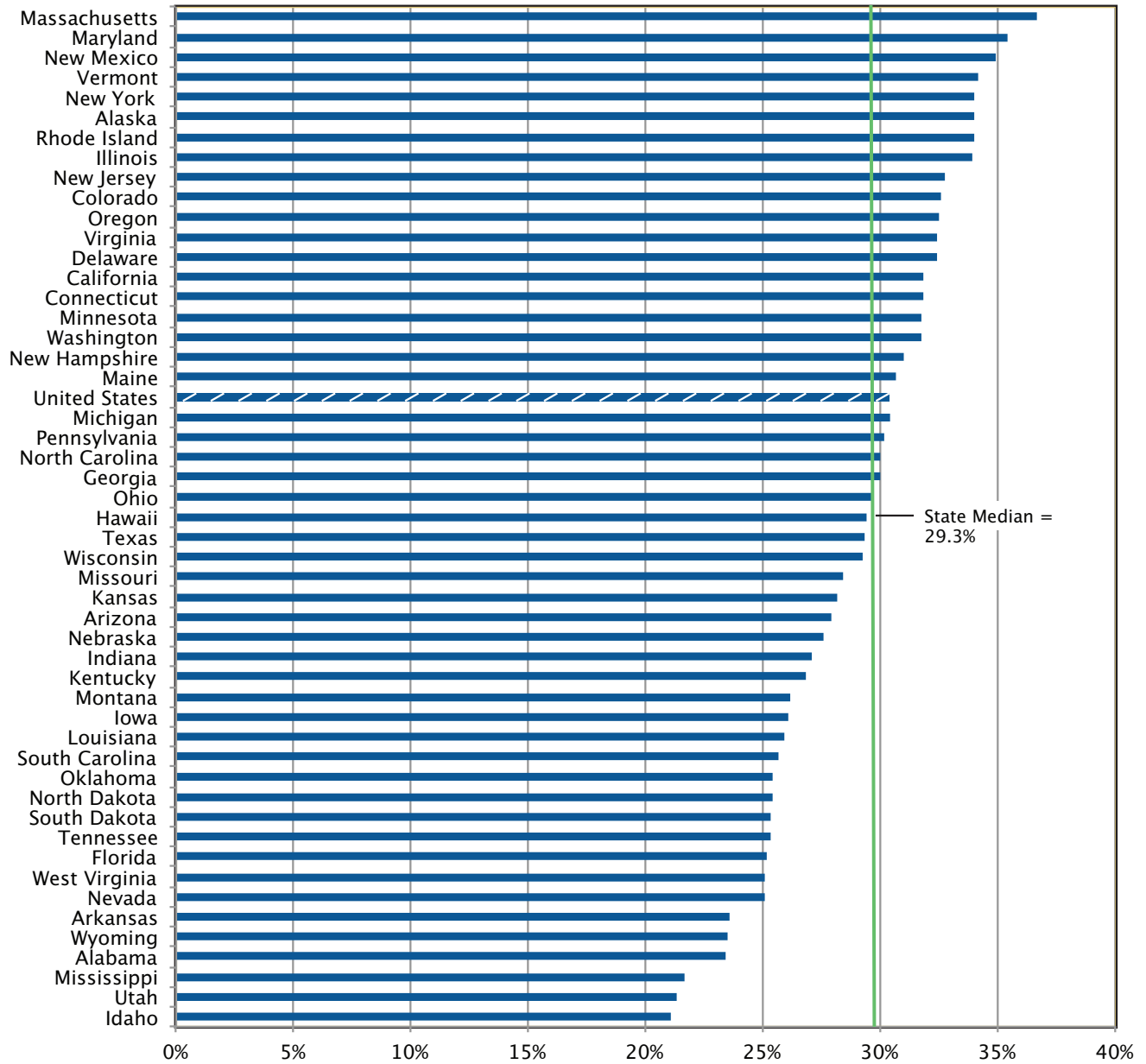
	Total Population	Total Active Patient Care Primary Care Physicians*			Active Patient Care Primary Care M.D.s		Active Patient Care Primary Care D.O.s	
		Number	Rate per 100,000		Number	Rate per 100,000	Number	Rate per 100,000
			Rank					
United States	309,050,816	245,367	79.4	N.R.	221,999	71.8	23,346	7.6
Alabama	4,729,656	3,120	66.0	44	2,940	62.2	180	3.8
Alaska	708,862	667	94.1	8	594	83.8	73	10.3
Arizona	6,676,627	4,544	68.1	43	3,857	57.8	686	10.3
Arkansas	2,910,236	2,026	69.6	40	1,892	65.0	134	4.6
California	37,266,600	29,968	80.4	26	28,240	75.8	1,728	4.6
Colorado	5,095,309	4,229	83.0	21	3,727	73.1	502	9.9
Connecticut	3,526,937	3,172	89.9	12	3,049	86.4	123	3.5
Delaware	891,464	755	84.7	20	636	71.3	119	13.3
District of Columbia	610,589	1,110	181.8	N.R.	1,084	177.5	26	4.3
Florida	18,678,049	14,582	78.1	29	12,986	69.5	1,594	8.5
Georgia	9,908,357	6,516	65.8	45	6,167	62.2	349	3.5
Hawaii	1,300,086	1,358	104.5	4	1,282	98.6	76	5.8
Idaho	1,559,796	987	63.3	47	865	55.5	122	7.8
Illinois	12,944,410	10,591	81.8	22	9,717	75.1	873	6.7
Indiana	6,445,295	4,588	71.2	36	4,238	65.8	350	5.4
Iowa	3,023,081	2,288	75.7	31	1,672	55.3	616	20.4
Kansas	2,841,121	2,128	74.9	32	1,822	64.1	306	10.8
Kentucky	4,339,435	3,028	69.8	39	2,863	66.0	165	3.8
Louisiana	4,529,426	3,094	68.3	42	3,051	67.4	43	0.9
Maine	1,312,939	1,459	111.1	2	1,143	87.1	316	24.1
Maryland	5,737,274	5,427	94.6	7	5,220	91.0	207	3.6
Massachusetts	6,631,280	7,144	107.7	3	6,891	103.9	249	3.8
Michigan	9,931,235	8,487	85.5	18	6,729	67.8	1,758	17.7
Minnesota	5,290,447	4,938	93.3	9	4,734	89.5	204	3.9
Mississippi	2,960,467	1,732	58.5	49	1,575	53.2	156	5.3
Missouri	6,011,741	4,441	73.9	35	3,581	59.6	860	14.3
Montana	980,152	792	80.8	24	717	73.2	75	7.7
Nebraska	1,811,072	1,356	74.9	33	1,284	70.9	72	4.0
Nevada	2,654,751	1,691	63.7	46	1,486	56.0	205	7.7
New Hampshire	1,323,531	1,308	98.8	5	1,182	89.3	125	9.4
New Jersey	8,732,811	7,506	86.0	15	6,500	74.4	1,006	11.5
New Mexico	2,033,875	1,626	79.9	28	1,503	73.9	123	6.0
New York	19,577,730	17,989	91.9	11	16,782	85.7	1,203	6.1
North Carolina	9,458,888	7,011	74.1	34	6,684	70.7	327	3.5
North Dakota	653,778	561	85.8	17	537	82.1	24	3.7
Ohio	11,532,111	9,227	80.0	27	7,900	68.5	1,327	11.5
Oklahoma	3,724,447	2,571	69.0	41	1,892	50.8	679	18.2
Oregon	3,855,536	3,589	93.1	10	3,268	84.8	321	8.3
Pennsylvania	12,632,780	10,749	85.1	19	8,515	67.4	2,234	17.7
Rhode Island	1,056,870	1,009	95.5	6	904	85.5	105	9.9
South Carolina	4,596,958	3,231	70.3	38	3,052	66.4	179	3.9
South Dakota	820,077	660	80.5	25	604	73.7	56	6.8
Tennessee	6,338,112	4,872	76.9	30	4,605	72.7	267	4.2
Texas	25,213,445	15,633	62.0	48	14,097	55.9	1,535	6.1
Utah	2,830,753	1,654	58.4	50	1,510	53.3	144	5.1
Vermont	622,433	694	111.5	1	668	107.3	26	4.2
Virginia	7,952,119	6,446	81.1	23	6,128	77.1	318	4.0
Washington	6,746,199	5,971	88.5	13	5,561	82.4	404	6.0
West Virginia	1,825,513	1,568	85.9	16	1,208	66.2	360	19.7
Wisconsin	5,668,519	4,887	86.2	14	4,497	79.3	389	6.9
Wyoming	547,637	387	70.7	37	360	65.7	27	4.9

Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physician data are from the AMA Physician Masterfile (December 31, 2010).

N.R. = Not Ranked

\* Physicians whose medical school type was unavailable (n=22) are included in the total.

Figure 5. Percentage of Active Physicians Who Are Female, 2010



Source: AMA Physician Masterfile (December 31, 2010). Physicians whose sex was unavailable (n=1,104) are excluded.

**Table 5. Active Female Physicians, 2010**

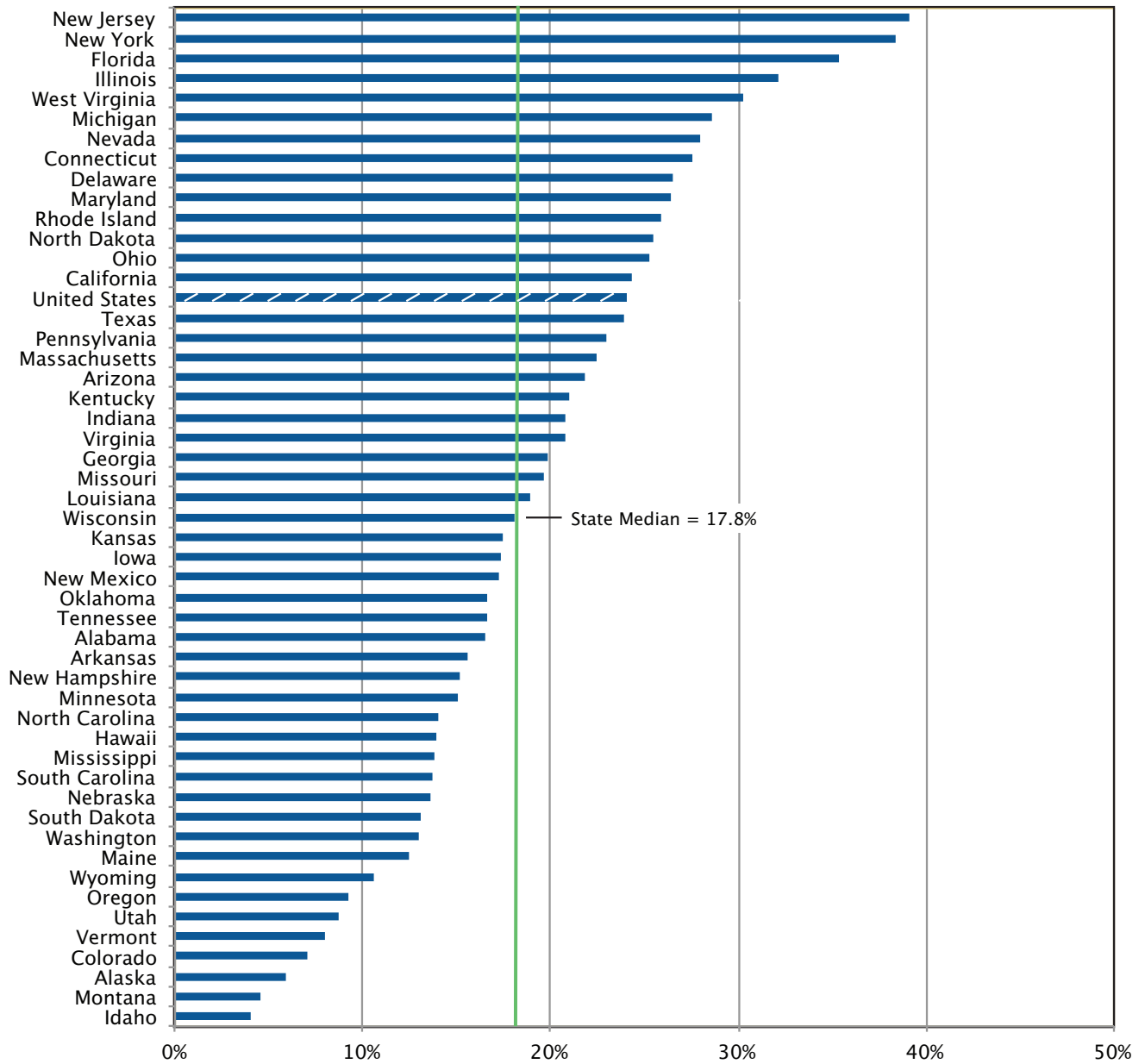
	Total Active Physicians*	Active Female Physicians		
		Number	Percent	Rank
United States	798,405	242,427	30.4%	N.R.
Alabama	9,501	2,226	23.4%	47
Alaska	1,719	584	34.0%	6
Arizona	14,670	4,093	27.9%	30
Arkansas	5,511	1,300	23.6%	45
California	95,021	30,210	31.8%	14
Colorado	13,230	4,309	32.6%	10
Connecticut	11,671	3,707	31.8%	15
Delaware	2,392	774	32.4%	13
District of Columbia	5,323	2,056	38.6%	N.R.
Florida	47,527	11,959	25.2%	42
Georgia	20,496	6,138	29.9%	23
Hawaii	3,964	1,166	29.4%	25
Idaho	2,870	604	21.0%	50
Illinois	33,540	11,357	33.9%	8
Indiana	13,884	3,762	27.1%	32
Iowa	6,282	1,635	26.0%	35
Kansas	6,053	1,705	28.2%	29
Kentucky	9,471	2,536	26.8%	33
Louisiana	10,535	2,730	25.9%	36
Maine	4,026	1,233	30.6%	19
Maryland	21,126	7,475	35.4%	2
Massachusetts	27,511	10,077	36.6%	1
Michigan	26,264	7,971	30.3%	20
Minnesota	14,245	4,524	31.8%	16
Mississippi	5,217	1,129	21.6%	48
Missouri	14,811	4,200	28.4%	28
Montana	2,229	583	26.2%	34
Nebraska	3,976	1,095	27.5%	31
Nevada	5,252	1,314	25.0%	44
New Hampshire	3,870	1,198	31.0%	18
New Jersey	25,581	8,374	32.7%	9
New Mexico	4,669	1,627	34.8%	3
New York	67,917	23,080	34.0%	5
North Carolina	22,354	6,696	30.0%	22
North Dakota	1,557	395	25.4%	39
Ohio	30,440	9,030	29.7%	24
Oklahoma	7,392	1,876	25.4%	38
Oregon	10,585	3,436	32.5%	11
Pennsylvania	38,155	11,485	30.1%	21
Rhode Island	3,513	1,193	34.0%	7
South Carolina	9,910	2,543	25.7%	37
South Dakota	1,777	450	25.3%	40
Tennessee	15,296	3,866	25.3%	41
Texas	51,604	15,109	29.3%	26
Utah	5,592	1,190	21.3%	49
Vermont	2,007	685	34.1%	4
Virginia	20,246	6,552	32.4%	12
Washington	17,778	5,640	31.7%	17
West Virginia	4,478	1,123	25.1%	43
Wisconsin	14,311	4,179	29.2%	27
Wyoming	1,056	248	23.5%	46

Source: AMA Physician Masterfile (December 31, 2010)

N.R. = Not Ranked

\* Physicians whose sex was missing (n=1,104) are excluded.

**Figure 6. Percentage of Active Physicians Who Are International Medical Graduates (IMGs), 2010**



Source: AMA Physician Masterfile (December 31, 2010). Physicians whose medical school type was unavailable are excluded (n=67).  
 Physicians who are graduates of Canadian medical schools are not included (n=9,700).

**Table 6. Active Physicians by Medical School Type, 2010**

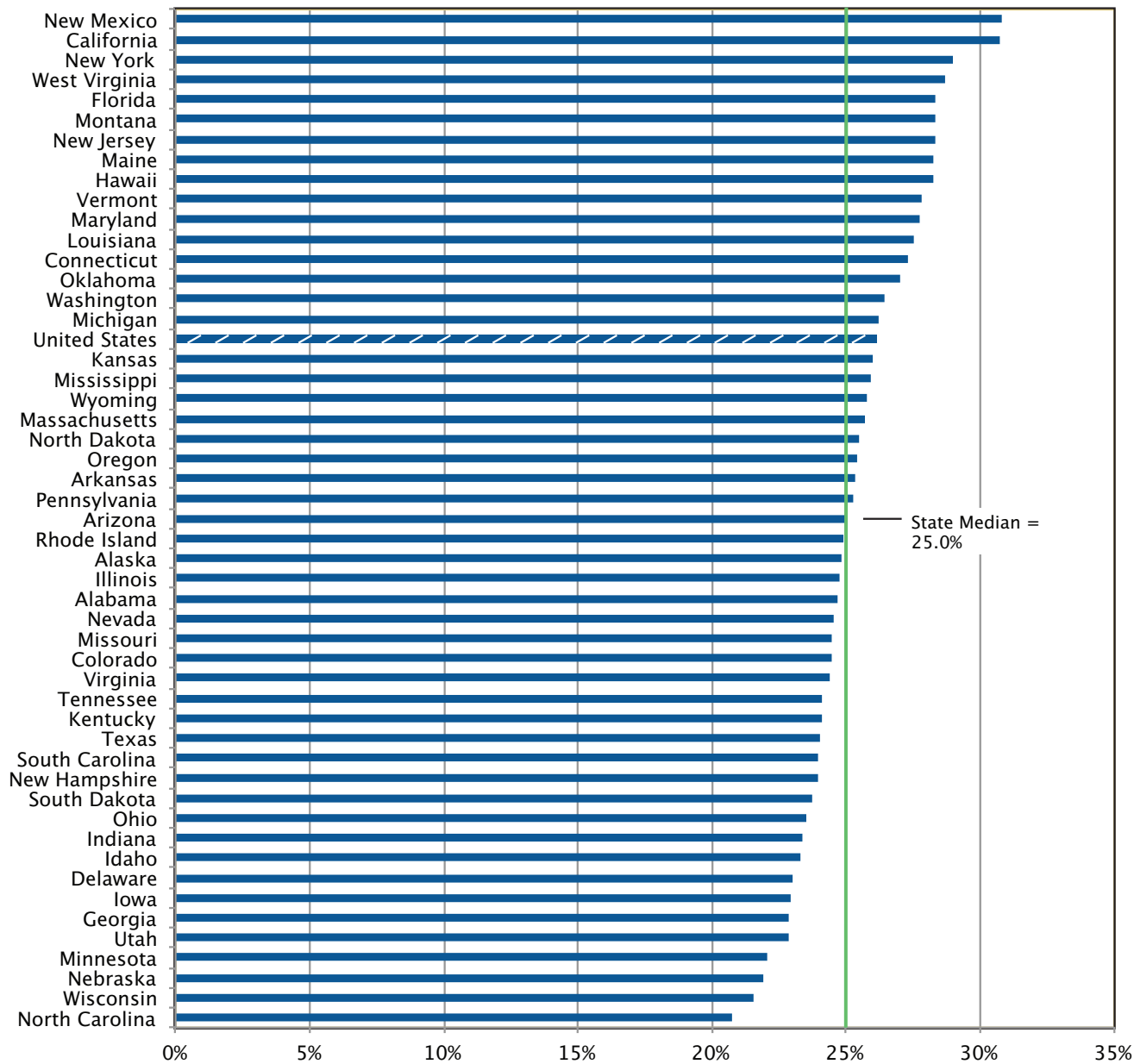
	Total Active Physicians*	U.S.M.D.		D.O.		IMG		
	Number	Number	Percent	Number	Percent	Number	Percent	Rank
United States	799,442	542,321	67.8%	55,218	6.9%	192,203	24.0%	N.R.
Alabama	9,508	7,450	78.4%	382	4.0%	1,568	16.5%	31
Alaska	1,721	1,452	84.4%	156	9.1%	102	5.9%	48
Arizona	14,692	9,555	65.0%	1,665	11.3%	3,209	21.8%	18
Arkansas	5,518	4,367	79.1%	253	4.6%	860	15.6%	32
California	95,194	66,909	70.3%	3,697	3.9%	23,122	24.3%	14
Colorado	13,243	11,114	83.9%	1,041	7.9%	939	7.1%	47
Connecticut	11,678	7,939	68.0%	396	3.4%	3,215	27.5%	8
Delaware	2,393	1,474	61.6%	269	11.2%	635	26.5%	9
District of Columbia	5,327	3,989	74.9%	116	2.2%	1,166	21.9%	N.R.
Florida	47,584	26,379	55.4%	3,933	8.3%	16,823	35.4%	3
Georgia	20,510	15,425	75.2%	836	4.1%	4,073	19.9%	22
Hawaii	3,970	3,167	79.8%	188	4.7%	552	13.9%	36
Idaho	2,873	2,452	85.3%	263	9.2%	115	4.0%	50
Illinois	33,591	20,328	60.5%	2,170	6.5%	10,807	32.2%	4
Indiana	13,899	10,010	72.0%	847	6.1%	2,889	20.8%	20
Iowa	6,294	4,044	64.3%	1,090	17.3%	1,093	17.4%	27
Kansas	6,058	4,359	72.0%	591	9.8%	1,059	17.5%	26
Kentucky	9,478	6,935	73.2%	439	4.6%	1,989	21.0%	19
Louisiana	10,541	8,353	79.2%	116	1.1%	1,997	18.9%	24
Maine	4,031	2,814	69.8%	611	15.2%	501	12.4%	42
Maryland	21,152	14,709	69.5%	641	3.0%	5,589	26.4%	10
Massachusetts	27,539	20,016	72.7%	627	2.3%	6,182	22.4%	17
Michigan	26,322	13,811	52.5%	4,727	18.0%	7,517	28.6%	6
Minnesota	14,261	11,274	79.1%	470	3.3%	2,145	15.0%	34
Mississippi	5,220	4,158	79.7%	304	5.8%	721	13.8%	37
Missouri	14,824	9,938	67.0%	1,892	12.8%	2,907	19.6%	23
Montana	2,232	1,959	87.8%	155	6.9%	102	4.6%	49
Nebraska	3,979	3,250	81.7%	150	3.8%	541	13.6%	39
Nevada	5,264	3,246	61.7%	493	9.4%	1,471	27.9%	7
New Hampshire	3,870	2,908	75.1%	257	6.6%	585	15.1%	33
New Jersey	25,629	12,863	50.2%	2,629	10.3%	10,021	39.1%	1
New Mexico	4,673	3,569	76.4%	255	5.5%	806	17.2%	28
New York	68,036	38,002	55.9%	3,093	4.5%	26,090	38.3%	2
North Carolina	22,367	18,205	81.4%	806	3.6%	3,144	14.1%	35
North Dakota	1,558	1,037	66.6%	59	3.8%	396	25.4%	12
Ohio	30,484	18,762	61.5%	3,665	12.0%	7,704	25.3%	13
Oklahoma	7,405	4,597	62.1%	1,532	20.7%	1,229	16.6%	29
Oregon	10,594	8,789	83.0%	627	5.9%	978	9.2%	44
Pennsylvania	38,205	23,774	62.2%	5,348	14.0%	8,761	22.9%	16
Rhode Island	3,513	2,332	66.4%	210	6.0%	908	25.8%	11
South Carolina	9,922	8,076	81.4%	437	4.4%	1,362	13.7%	38
South Dakota	1,779	1,416	79.6%	117	6.6%	233	13.1%	40
Tennessee	15,301	12,021	78.6%	581	3.8%	2,538	16.6%	30
Texas	51,690	35,329	68.3%	3,435	6.6%	12,354	23.9%	15
Utah	5,598	4,743	84.7%	310	5.5%	485	8.7%	45
Vermont	2,008	1,705	84.9%	63	3.1%	160	8.0%	46
Virginia	20,268	15,044	74.2%	842	4.2%	4,207	20.8%	21
Washington	17,788	14,186	79.8%	878	4.9%	2,301	12.9%	41
West Virginia	4,485	2,429	54.2%	670	14.9%	1,358	30.3%	5
Wisconsin	14,316	10,800	75.4%	804	5.6%	2,582	18.0%	25
Wyoming	1,057	858	81.2%	82	7.8%	112	10.6%	43

Source: AMA Physician Masterfile (December 31, 2010)

N.R. = Not Ranked

\* The total excludes active physicians whose medical school type was unavailable (n=67). Physicians who are graduates of Canadian medical schools are included in the total (n=9,700).

Figure 7. Percentage of Active Physicians Who Are Age 60 or Older, 2010



Source: AMA Physician Masterfile (December 31, 2010). Physicians whose age was unavailable are excluded (n=1,274).



**Table 7. Active Physicians by Selected Age Groups, 2010**

	Total Active Physicians*					
	Physicians*	Under Age 40		Age 60 or Older		
		Number	Number	Percent	Number	Percent
United States	798,235	140,464	17.6%	208,802	26.2%	N.R.
Alabama	9,505	1,521	16.0%	2,346	24.7%	29
Alaska	1,718	244	14.2%	427	24.9%	27
Arizona	14,633	2,425	16.6%	3,670	25.1%	25
Arkansas	5,513	933	16.9%	1,397	25.3%	23
California	95,097	15,968	16.8%	29,217	30.7%	2
Colorado	13,233	2,212	16.7%	3,239	24.5%	32
Connecticut	11,666	1,889	16.2%	3,186	27.3%	13
Delaware	2,390	399	16.7%	550	23.0%	43
District of Columbia	5,326	1,207	22.7%	1,605	30.1%	N.R.
Florida	47,465	6,544	13.8%	13,446	28.3%	5
Georgia	20,506	3,578	17.4%	4,686	22.9%	45
Hawaii	3,969	633	15.9%	1,121	28.2%	9
Idaho	2,872	398	13.9%	670	23.3%	42
Illinois	33,541	6,857	20.4%	8,303	24.8%	28
Indiana	13,892	2,289	16.5%	3,245	23.4%	41
Iowa	6,280	1,189	18.9%	1,440	22.9%	44
Kansas	6,051	1,112	18.4%	1,571	26.0%	17
Kentucky	9,468	1,735	18.3%	2,279	24.1%	35
Louisiana	10,539	1,971	18.7%	2,899	27.5%	12
Maine	4,022	528	13.1%	1,136	28.2%	8
Maryland	21,131	3,740	17.7%	5,864	27.8%	11
Massachusetts	27,537	5,492	19.9%	7,086	25.7%	20
Michigan	26,078	4,659	17.9%	6,833	26.2%	16
Minnesota	14,252	2,699	18.9%	3,143	22.1%	47
Mississippi	5,219	804	15.4%	1,352	25.9%	18
Missouri	14,798	2,959	20.0%	3,625	24.5%	31
Montana	2,231	236	10.6%	632	28.3%	6
Nebraska	3,976	809	20.3%	871	21.9%	48
Nevada	5,257	816	15.5%	1,288	24.5%	30
New Hampshire	3,871	589	15.2%	926	23.9%	38
New Jersey	25,581	3,953	15.5%	7,240	28.3%	7
New Mexico	4,669	679	14.5%	1,439	30.8%	1
New York	67,961	12,036	17.7%	19,682	29.0%	3
North Carolina	22,357	4,219	18.9%	4,636	20.7%	50
North Dakota	1,557	270	17.3%	397	25.5%	21
Ohio	30,428	6,020	19.8%	7,155	23.5%	40
Oklahoma	7,396	1,278	17.3%	1,999	27.0%	14
Oregon	10,584	1,738	16.4%	2,686	25.4%	22
Pennsylvania	38,063	7,255	19.1%	9,625	25.3%	24
Rhode Island	3,513	644	18.3%	875	24.9%	26
South Carolina	9,919	1,797	18.1%	2,379	24.0%	37
South Dakota	1,776	301	16.9%	422	23.8%	39
Tennessee	15,290	2,522	16.5%	3,688	24.1%	34
Texas	51,651	10,135	19.6%	12,412	24.0%	36
Utah	5,593	1,093	19.5%	1,278	22.8%	46
Vermont	2,004	268	13.4%	558	27.8%	10
Virginia	20,241	3,613	17.8%	4,931	24.4%	33
Washington	17,785	2,816	15.8%	4,706	26.5%	15
West Virginia	4,474	802	17.9%	1,282	28.7%	4
Wisconsin	14,303	2,448	17.1%	3,087	21.6%	49
Wyoming	1,054	142	13.5%	272	25.8%	19

Source: AMA Physician Masterfile (December 31, 2010)

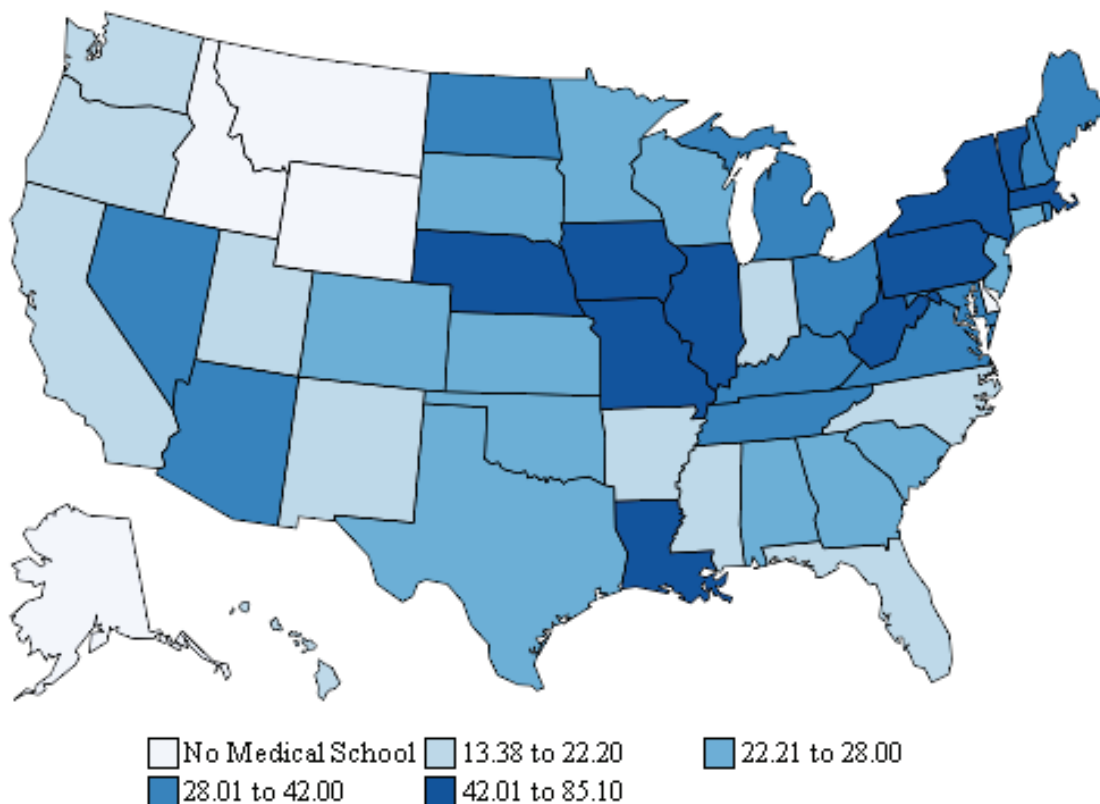
N.R. = Not Ranked

\* Physicians whose age was unavailable (n=1,274) are excluded.

## Key Findings – Medical and Osteopathic School Enrollment

- During the 2010-2011 academic year, there were 31.4 students per 100,000 population enrolled in medical and osteopathic schools<sup>1</sup> in the United States. The states with the highest student to population ratio were concentrated in the Northeast and the Midwest (see Map 4, Figure 8, and Table 8).

**Map 4. Medical and Osteopathic Students per 100,000 Population, 2010-2011 Academic Year**

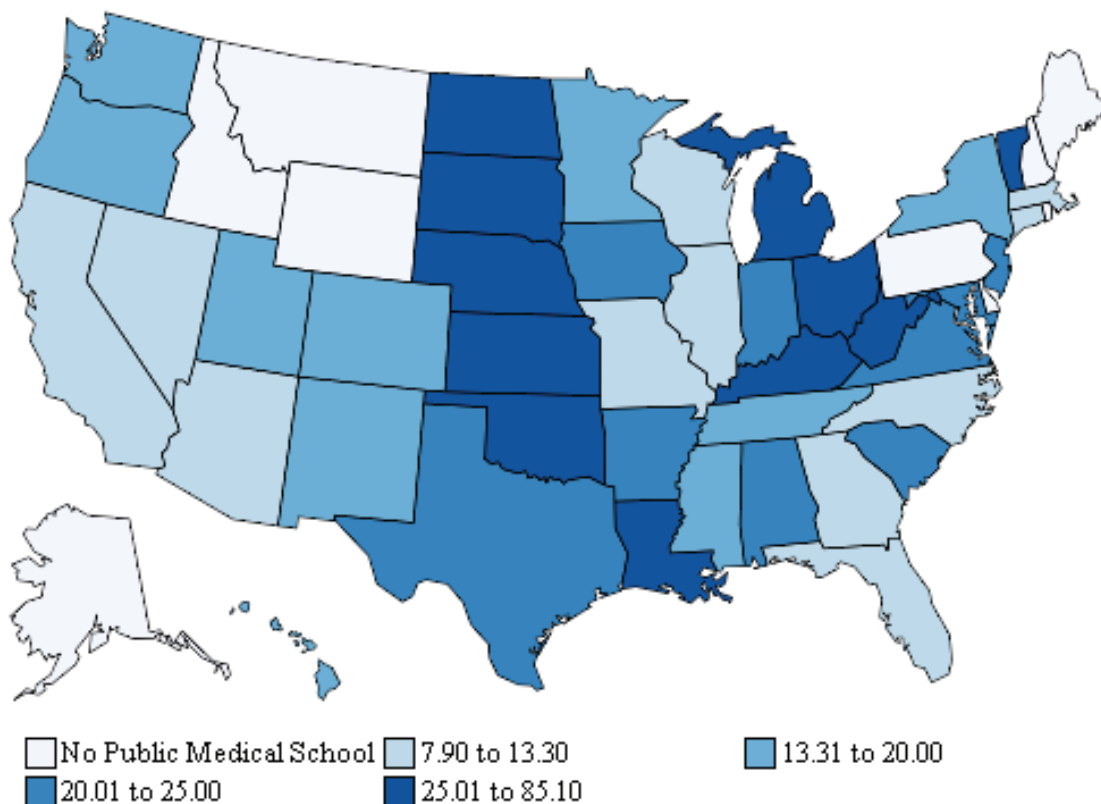


Source: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010, accessed online at <http://www.aamc.org/data/facts>. Osteopathic enrollment data are from Osteopathic Medical College Information Book: 2012 Entering Class, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011).

- More than half (59.8%) of the students enrolled in medical schools in the United States were enrolled in public schools, while only one fifth of students enrolled in osteopathic schools (20.3%) were enrolled in public schools. The rate of students enrolled in public medical or osteopathic schools per 100,000 population varied widely across states where a public school exists, from a low of 7.9 in Massachusetts to a high of 85.1 in West Virginia (see Map 5, Figure 9, and Table 9). In the United States overall, there were 16.3 students per 100,000 population enrolled in public medical and osteopathic schools.

<sup>1</sup> Alaska, Delaware, Idaho, Montana, and Wyoming do not have medical or osteopathic schools.

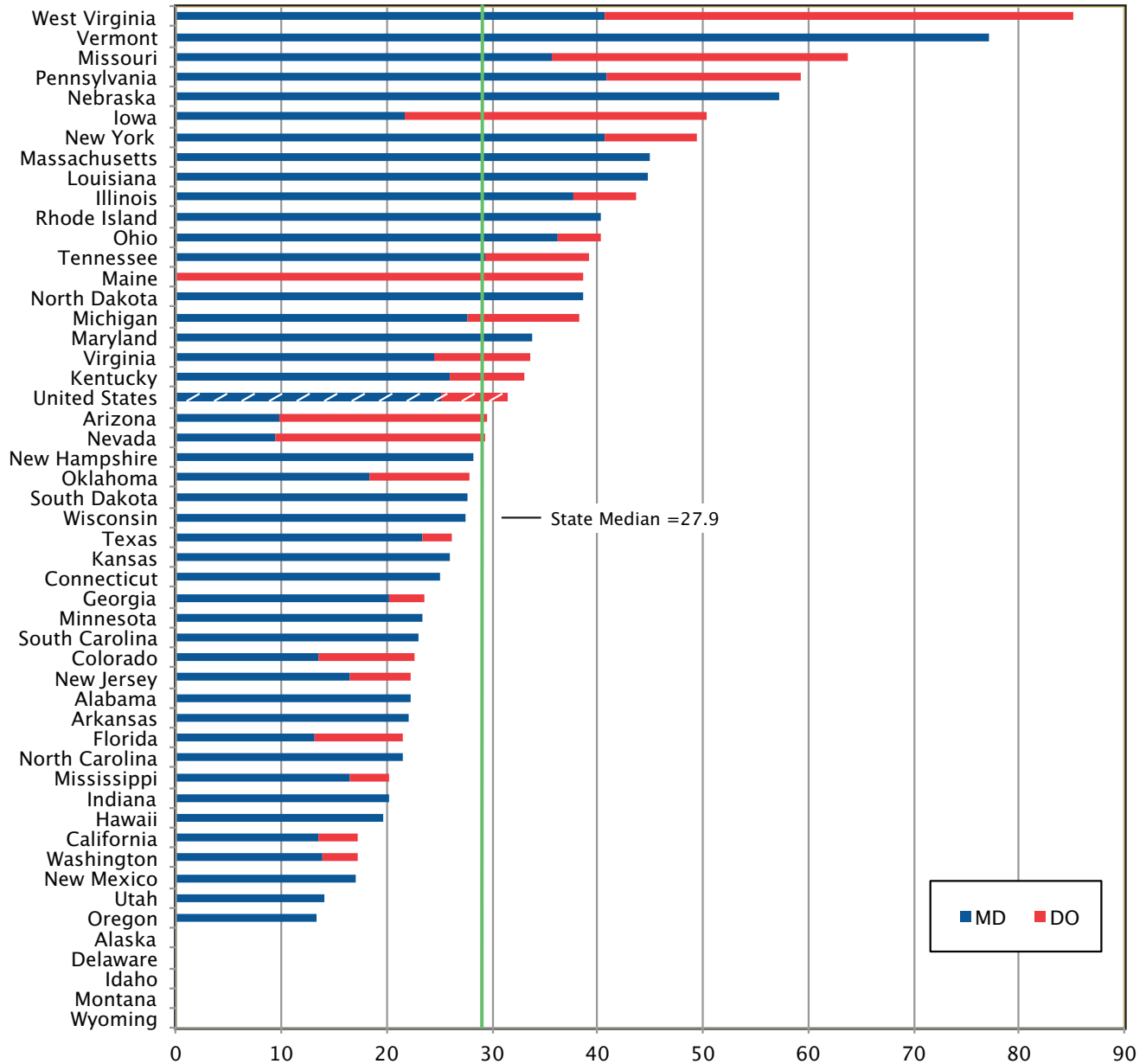
**Map 5. Public Medical and Osteopathic Students per 100,000 Population, 2010-2011 Academic Year**



Source: Medical enrollment data are from the AAMC Data Warehouse STUDENT file, accessed online at <http://www.aamc.org/data/facts>. Osteopathic enrollment data are from Osteopathic Medical College Information Book: 2012 Entering Class, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 24, 2011). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011).

- Between the 2000-2001 and 2010-2011 academic years, the total number of students enrolled in medical or osteopathic schools increased by 22.9 percent in the US. The growth was driven by a somewhat greater increase in the total number of students enrolled in medical schools (9,510) compared to osteopathic schools (8,610). This represents a 13.9 percent increase in M.D. enrollment and a 79.6 percent increase in D.O. enrollment during the ten year period. Every state experienced an increase in enrollment, except Utah, which had a 3.0 percent decrease in enrollment. Nineteen states had enrollment increases of 20 percent or more (see Figure 10 and Table 10).
- For the 2010-2011 academic year, 62.7 percent of first-year students in M.D. schools matriculated in their home state. Louisiana had the highest in-state matriculation rate—89.6 percent of the new medical students from Louisiana matriculated to a school in Louisiana. In contrast, New Hampshire had the lowest rate of states with a medical school—only 20.9 percent of the new medical students from New Hampshire matriculated in-state (see Figure 11 and Table 11).

**Figure 8. Students Enrolled in Medical or Osteopathic School for the 2010-2011 Academic Year Per 100,000 Population**



Sources: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010 accessed online at <https://www.aamc.org/data/facts>. Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011).



**Table 8. Students Enrolled in Medical or Osteopathic Schools for the 2010-2011 Academic Year**

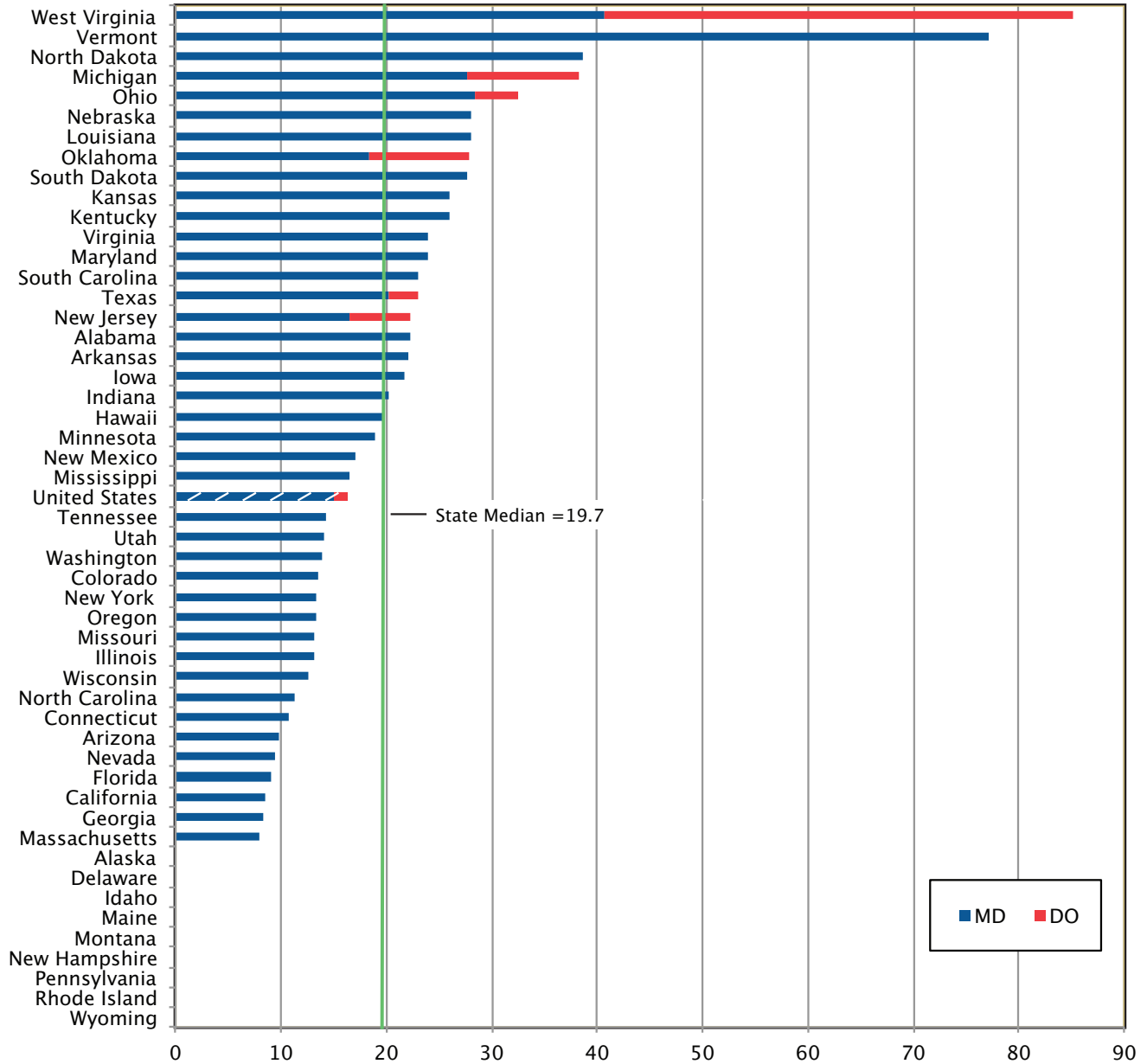
	Total Population	Total Students Enrolled in Medical or Osteopathic Schools			Students Enrolled in Medical Schools		Students Enrolled in Osteopathic Schools	
		Number	Rate per 100,000	Rank	Number	Rate per 100,000	Number	Rate per 100,000
United States	309,050,816	97,188	31.4	N.R.	77,761	25.2	19,427	6.3
Alabama	4,729,656	1,052	22.2	34	1,052	22.2	---	---
Alaska	708,862	---	---	---	---	---	---	---
Arizona	6,676,627	1,972	29.5	20	650	9.7	1,322	19.8
Arkansas	2,910,236	645	22.2	35	645	22.2	---	---
California	37,266,600	6,460	17.3	41	5,034	13.5	1,426	4
Colorado	5,095,309	1,155	22.7	32	691	13.6	464	9.1
Connecticut	3,526,937	882	25.0	28	882	25.0	---	---
Delaware	891,464	---	---	---	---	---	---	---
District of Columbia	610,589	2,051	335.9	N.R.	2,051	335.9	---	---
Florida	18,678,049	4,037	21.6	36	2,457	13.2	1,580	8.5
Georgia	9,908,357	2,341	23.6	29	1,998	20.2	343	3.5
Hawaii	1,300,086	256	19.7	40	256	19.7	---	---
Idaho	1,559,796	---	---	---	---	---	---	---
Illinois	12,944,410	5,640	43.6	10	4,886	37.7	754	5.8
Indiana	6,445,295	1,300	20.2	39	1,300	20.2	---	---
Iowa	3,023,081	1,525	50.4	6	654	21.6	871	28.8
Kansas	2,841,121	740	26.0	27	740	26.0	---	---
Kentucky	4,339,435	1,433	33.0	19	1,129	26.0	304	7.0
Louisiana	4,529,426	2,027	44.8	9	2,027	44.8	---	---
Maine	1,312,939	508	38.7	14	---	---	508	38.7
Maryland	5,737,274	1,938	33.8	17	1,938	33.8	---	---
Massachusetts	6,631,280	2,983	45.0	8	2,983	45.0	---	---
Michigan	9,931,235	3,807	38.3	16	2,739	27.6	1,068	10.8
Minnesota	5,290,447	1,233	23.3	30	1,233	23.3	---	---
Mississippi	2,960,467	599	20.2	38	489	16.5	110	4
Missouri	6,011,741	3,832	63.7	3	2,146	35.7	1,686	28.0
Montana	980,152	---	---	---	---	---	---	---
Nebraska	1,811,072	1,037	57.3	5	1,037	57.3	---	---
Nevada	2,654,751	781	29.4	21	250	9.4	531	20
New Hampshire	1,323,531	374	28.3	22	374	28.3	---	---
New Jersey	8,732,811	1,952	22.4	33	1,442	16.5	510	5.8
New Mexico	2,033,875	347	17.1	43	347	17.1	---	---
New York	19,577,730	9,667	49.4	7	7,979	40.8	1,688	9
North Carolina	9,458,888	2,029	21.5	37	2,029	21.5	---	---
North Dakota	653,778	252	38.5	15	252	38.5	---	---
Ohio	11,532,111	4,648	40.3	12	4,183	36.3	465	4.0
Oklahoma	3,724,447	1,040	27.9	23	681	18.3	359	10
Oregon	3,855,536	516	13.4	45	516	13.4	---	---
Pennsylvania	12,632,780	7,496	59.3	4	5,160	40.8	2,336	18.5
Rhode Island	1,056,870	426	40.3	11	426	40.3	---	---
South Carolina	4,596,958	1,060	23.1	31	1,060	23.1	---	---
South Dakota	820,077	227	27.7	24	227	27.7	---	---
Tennessee	6,338,112	2,481	39.1	13	1,861	29.4	620	9.8
Texas	25,213,445	6,613	26.2	26	5,885	23.3	728	2.9
Utah	2,830,753	398	14.1	44	398	14.1	---	---
Vermont	622,433	480	77.1	2	480	77.1	---	---
Virginia	7,952,119	2,668	33.6	18	1,949	24.5	719	9.0
Washington	6,746,199	1,165	17.3	42	941	13.9	224	3.3
West Virginia	1,825,513	1,553	85.1	1	742	40.6	811	44
Wisconsin	5,668,519	1,562	27.6	25	1,562	27.6	---	---
Wyoming	547,637	---	---	---	---	---	---	---

Sources: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010 accessed online at <https://www.aamc.org/data/facts>. Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011).

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states do not have a medical or osteopathic school.

**Figure 9. Students Enrolled in Public Medical or Osteopathic School for the 2010-2011 Academic Year Per 100,000 Population**



Sources: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010 accessed online at <https://www.aamc.org/data/facts>. Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class* accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011).

**Table 9. Students Enrolled in Public Medical or Osteopathic Schools for the 2010-2011 Academic Year**

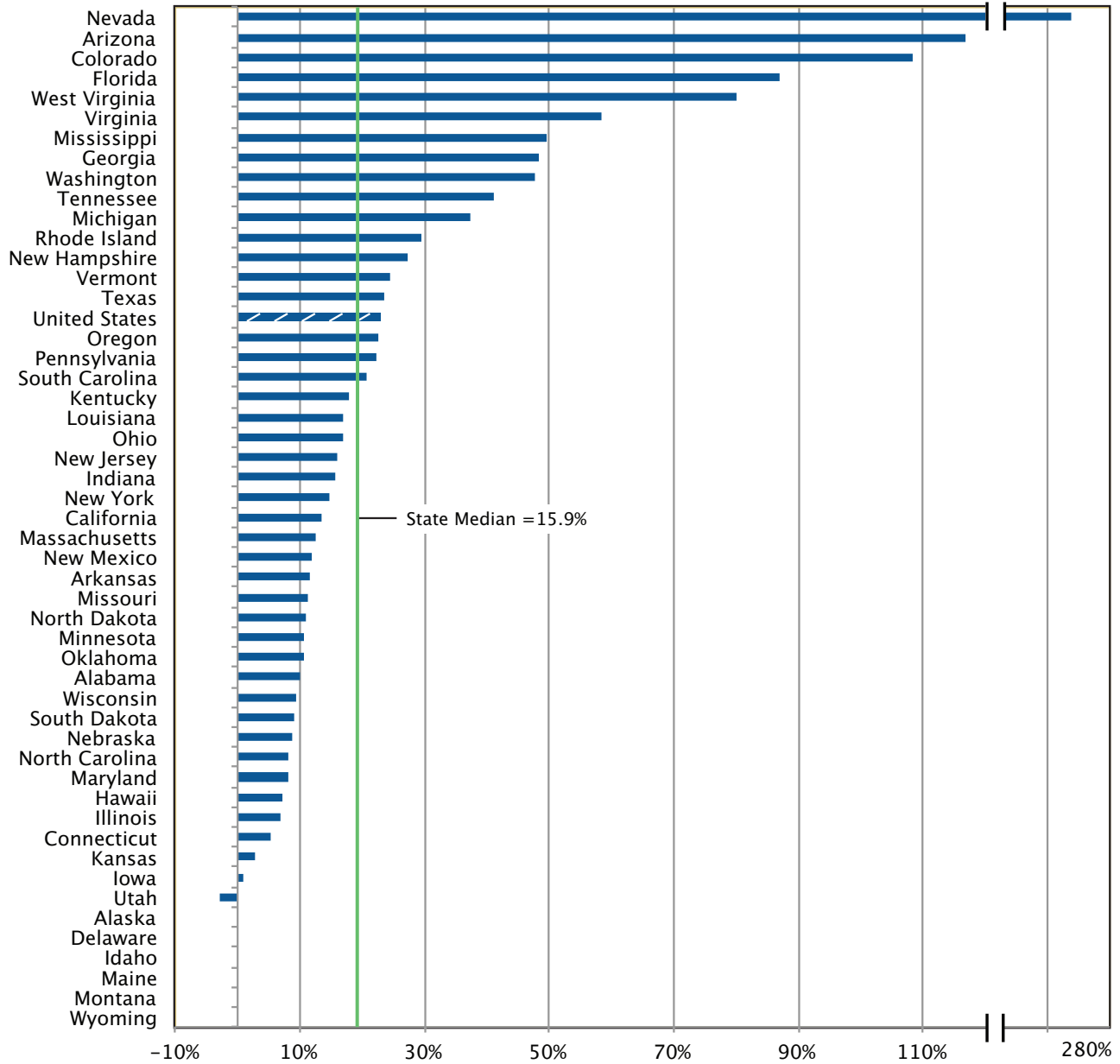
	Total Population	Total Students Enrolled in Public Medical or Osteopathic Schools			Students Enrolled in Public Medical Schools		Students Enrolled in Public Osteopathic Schools	
		Number	Rate per 100,000	Rank	Number	Rate per 100,000	Number	Rate per 100,000
United States	309,050,816	50,415	16.3	N.R.	46,474	15.0	3,941	1.3
Alabama	4,729,656	1,052	22.2	17	1,052	22.2	---	---
Alaska	708,862	---	---	---	---	---	---	---
Arizona	6,676,627	650	9.7	36	650	9.7	---	---
Arkansas	2,910,236	645	22.2	18	645	22.2	---	---
California	37,266,600	3,139	8.4	39	3,139	8.4	---	---
Colorado	5,095,309	691	13.6	28	691	13.6	---	---
Connecticut	3,526,937	381	10.8	35	381	10.8	---	---
Delaware	891,464	---	---	---	---	---	---	---
District of Columbia	610,589	---	---	N.R.	---	---	---	---
Florida	18,678,049	1,690	9.0	38	1,690	9.0	---	---
Georgia	9,908,357	819	8.3	40	819	8.3	---	---
Hawaii	1,300,086	256	19.7	21	256	19.7	---	---
Idaho	1,559,796	---	---	---	---	---	---	---
Illinois	12,944,410	1,709	13.2	32	1,709	13.2	---	---
Indiana	6,445,295	1,300	20.2	20	1,300	20.2	---	---
Iowa	3,023,081	654	21.6	19	654	21.6	---	---
Kansas	2,841,121	740	26.0	10	740	26.0	---	---
Kentucky	4,339,435	1,129	26.0	11	1,129	26.0	---	---
Louisiana	4,529,426	1,268	28.0	7	1,268	28.0	---	---
Maine	1,312,939	---	---	---	---	---	---	---
Maryland	5,737,274	1,369	23.9	13	1,369	23.9	---	---
Massachusetts	6,631,280	524	7.9	41	524	7.9	---	---
Michigan	9,931,235	3,807	38.3	4	2,739	27.6	1,068	10.8
Minnesota	5,290,447	1,001	18.9	22	1,001	18.9	---	---
Mississippi	2,960,467	489	16.5	24	489	16.5	---	---
Missouri	6,011,741	794	13.2	31	794	13.2	---	---
Montana	980,152	---	---	---	---	---	---	---
Nebraska	1,811,072	508	28.0	6	508	28.0	---	---
Nevada	2,654,751	250	9.4	37	250	9.4	---	---
New Hampshire	1,323,531	---	---	---	---	---	---	---
New Jersey	8,732,811	1,952	22.4	16	1,442	16.5	510	5.8
New Mexico	2,033,875	347	17.1	23	347	17.1	---	---
New York	19,577,730	2,629	13.4	29	2,629	13.4	---	---
North Carolina	9,458,888	1,071	11.3	34	1,071	11.3	---	---
North Dakota	653,778	252	38.5	3	252	38.5	---	---
Ohio	11,532,111	3,745	32.5	5	3,280	28.4	465	4.0
Oklahoma	3,724,447	1,040	27.9	8	681	18.3	359	10
Oregon	3,855,536	516	13.4	30	516	13.4	---	---
Pennsylvania	12,632,780	---	---	---	---	---	---	---
Rhode Island	1,056,870	---	---	---	---	---	---	---
South Carolina	4,596,958	1,060	23.1	14	1,060	23.1	---	---
South Dakota	820,077	227	27.7	9	227	27.7	---	---
Tennessee	6,338,112	909	14.3	25	909	14.3	---	---
Texas	25,213,445	5,811	23.0	15	5,083	20.2	728	2.9
Utah	2,830,753	398	14.1	26	398	14.1	---	---
Vermont	622,433	480	77.1	2	480	77.1	---	---
Virginia	7,952,119	1,907	24.0	12	1,907	24.0	---	---
Washington	6,746,199	941	13.9	27	941	13.9	---	---
West Virginia	1,825,513	1,553	85.1	1	742	40.6	811	44
Wisconsin	5,668,519	712	12.6	33	712	12.6	---	---
Wyoming	547,637	---	---	---	---	---	---	---

Sources: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010 accessed online at <https://www.aamc.org/data/facts>. Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011).

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states do not have a public medical or osteopathic school.

**Figure 10. Percentage Change in Students Enrolled in Medical or Osteopathic Schools, 2000-2010**



Sources: 2010 Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010 accessed online at <https://www.aamc.org/data/facts>. 2000 Medical enrollment data retrieved from the AAMC Data Warehouse STUDENT file as of August 11, 2011. 2010 Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). 2000 Osteopathic enrollment data are from JAOA. November 2001:101(11). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011).



**Table 10. Change in Number of Students Enrolled in Medical or Osteopathic Schools, 2000–2010**

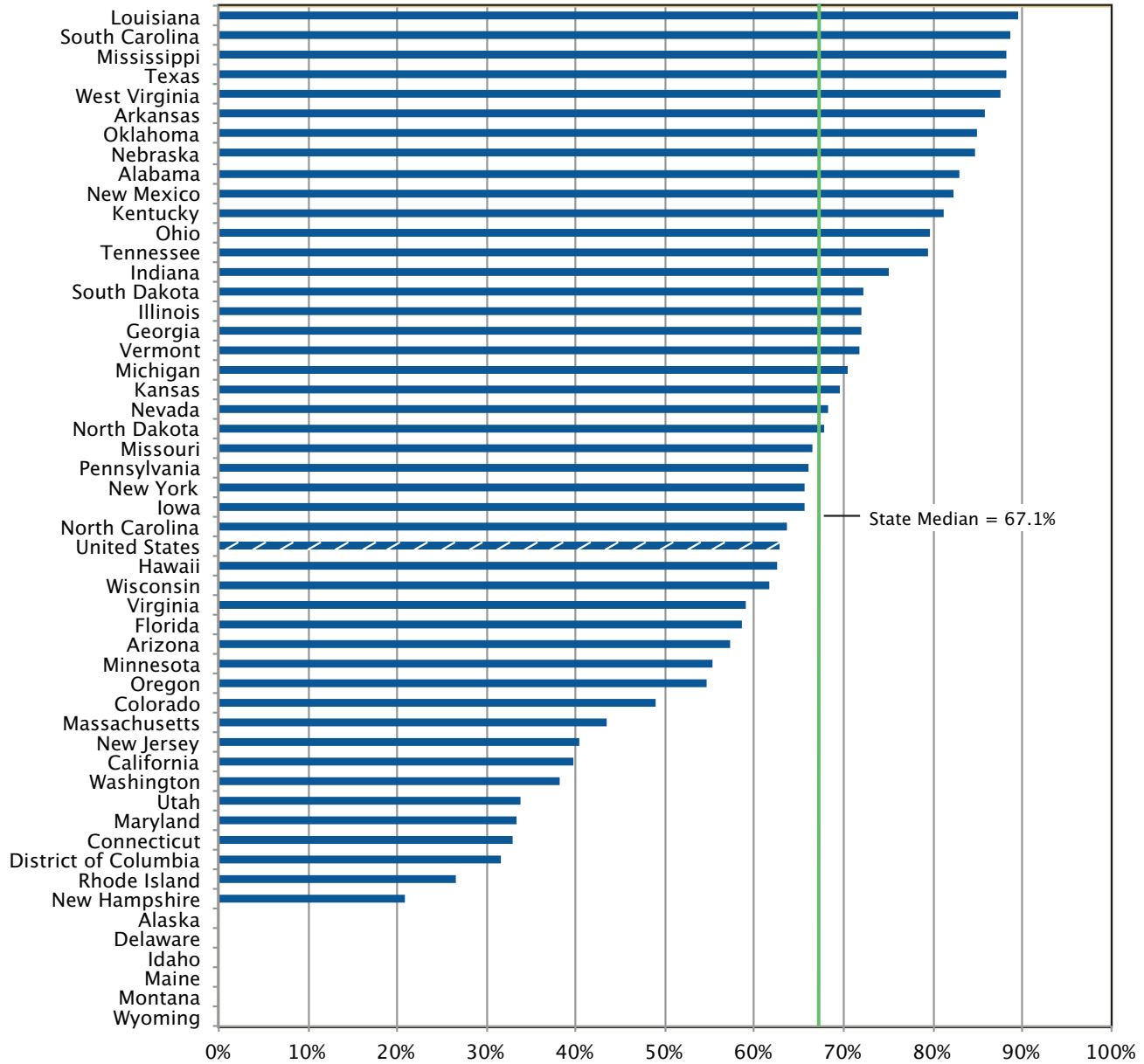
	Total Students Enrolled in UME				Students Enrolled in Medical School		Students Enrolled in Osteopathic School	
	2000	2010	Percent Change	Rank	2000	2010	2000	2010
United States	79,068	97,188	22.9%	N.R.	68,251	77,761	10,817	19,427
Alabama	955	1,052	10.2%	33	955	1,052	---	---
Alaska	---	---	---	---	---	---	---	---
Arizona	909	1,972	116.9%	2	427	650	482	1,322
Arkansas	578	645	11.6%	28	578	645	---	---
California	5,695	6,460	13.4%	25	4,657	5,034	1,038	1,426
Colorado	554	1,155	108.5%	3	554	691	---	464
Connecticut	838	882	5.3%	41	838	882	---	---
Delaware	---	---	---	---	---	---	---	---
District of Columbia	1,803	2,051	13.8%	N.R.	1,803	2,051	---	---
Florida	2,159	4,037	87.0%	4	1,479	2,457	680	1,580
Georgia	1,577	2,341	48.4%	8	1,577	1,998	---	343
Hawaii	239	256	7.1%	39	239	256	---	---
Idaho	---	---	---	---	---	---	---	---
Illinois	5,283	5,640	6.8%	40	4,643	4,886	640	754
Indiana	1,123	1,300	15.8%	23	1,123	1,300	---	---
Iowa	1,511	1,525	0.9%	43	706	654	805	871
Kansas	720	740	2.8%	42	720	740	---	---
Kentucky	1,217	1,433	17.7%	19	978	1,129	239	304
Louisiana	1,733	2,027	17.0%	20	1,733	2,027	---	---
Maine	---	---	---	---	---	---	---	---
Maryland	1,794	1,938	8.0%	38	1,794	1,938	---	---
Massachusetts	2,653	2,983	12.4%	26	2,653	2,983	---	---
Michigan	2,772	3,807	37.3%	11	2,249	2,739	523	1,068
Minnesota	1,114	1,233	10.7%	31	1,114	1,233	---	---
Mississippi	400	599	49.8%	7	400	489	---	110
Missouri	3,447	3,832	11.2%	29	1,960	2,146	1,487	1,686
Montana	---	---	---	---	---	---	---	---
Nebraska	953	1,037	8.8%	36	953	1,037	---	---
Nevada	209	781	273.7%	1	209	250	---	531
New Hampshire	294	374	27.2%	13	294	374	---	---
New Jersey	1,682	1,952	16.1%	22	1,373	1,442	309	510
New Mexico	310	347	11.9%	27	310	347	---	---
New York	8,429	9,667	14.7%	24	7,364	7,979	1,065	1,688
North Carolina	1,877	2,029	8.1%	37	1,877	2,029	---	---
North Dakota	227	252	11.0%	30	227	252	---	---
Ohio	3,980	4,648	16.8%	21	3,564	4,183	416	465
Oklahoma	940	1,040	10.6%	32	588	681	352	359
Oregon	421	516	22.6%	16	421	516	---	---
Pennsylvania	6,123	7,496	22.4%	17	4,545	5,160	1,578	2,336
Rhode Island	329	426	29.5%	12	329	426	---	---
South Carolina	879	1,060	20.6%	18	879	1,060	---	---
South Dakota	208	227	9.1%	35	208	227	---	---
Tennessee	1,758	2,481	41.1%	10	1,758	1,861	---	620
Texas	5,352	6,613	23.6%	15	4,897	5,885	455	728
Utah	410	398	-2.9%	44	410	398	---	---
Vermont	386	480	24.4%	14	386	480	---	---
Virginia	1,684	2,668	58.4%	6	1,684	1,949	---	719
Washington	789	1,165	47.7%	9	789	941	---	224
West Virginia	863	1,553	80.0%	5	578	742	285	811
Wisconsin	1,428	1,562	9.4%	34	1,428	1,562	---	---
Wyoming	---	---	---	---	---	---	---	---

Sources: 2010 Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010 accessed online at <https://www.aamc.org/data/facts>. 2000 Medical enrollment data retrieved from the AAMC Data Warehouse STUDENT file as of August 11, 2011. 2010 Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org/resources/bookstore/cib/Pages/default.aspx> (August 04, 2011). 2000 Osteopathic enrollment data are from JAOA. November 2001:101(11). July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011).

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states do not have a medical or osteopathic school.

Figure 11. In-State Matriculation to Medical School for the 2010-2011 Academic Year



Source: AAMC Data Warehouse Applicant Matriculant File as of October 19, 2010, accessed online at <http://www.aamc.org/data/facts> (August 14, 2011).

**Table 11. In-State Matriculation to Medical School for the 2010-2011 Academic Year\***

	Matriculants to Medical School by State of Legal Residence	First-Year Medical Students Who Matriculated to a Medical School in Their Legal State of Residence		
	Number	Number	Percent	Rank
United States	18,466	11,586	62.7%	N.R.
Alabama	253	210	83.0%	9
Alaska	29	---	---	---
Arizona	244	140	57.4%	32
Arkansas	169	145	85.8%	6
California	2,154	856	39.7%	38
Colorado	251	123	49.0%	35
Connecticut	246	81	32.9%	42
Delaware	36	---	---	---
District of Columbia	41	13	31.7%	N.R.
Florida	915	537	58.7%	31
Georgia	565	407	72.0%	17
Hawaii	80	50	62.5%	28
Idaho	55	---	---	---
Illinois	898	647	72.0%	16
Indiana	361	271	75.1%	14
Iowa	145	95	65.5%	26
Kansas	226	157	69.5%	20
Kentucky	249	202	81.1%	11
Louisiana	364	326	89.6%	1
Maine	38	---	---	---
Maryland	496	165	33.3%	41
Massachusetts	526	229	43.5%	36
Michigan	667	470	70.5%	19
Minnesota	384	212	55.2%	33
Mississippi	153	135	88.2%	3
Missouri	280	186	66.4%	23
Montana	56	---	---	---
Nebraska	156	132	84.6%	8
Nevada	79	54	68.4%	21
New Hampshire	43	9	20.9%	44
New Jersey	702	283	40.3%	37
New Mexico	113	93	82.3%	10
New York	1,335	877	65.7%	25
North Carolina	443	282	63.7%	27
North Dakota	62	42	67.7%	22
Ohio	721	574	79.6%	12
Oklahoma	172	146	84.9%	7
Oregon	174	95	54.6%	34
Pennsylvania	758	500	66.0%	24
Rhode Island	34	9	26.5%	43
South Carolina	239	212	88.7%	2
South Dakota	61	44	72.1%	15
Tennessee	300	238	79.3%	13
Texas	1,481	1,306	88.2%	4
Utah	181	61	33.7%	40
Vermont	39	28	71.8%	18
Virginia	431	254	58.9%	30
Washington	319	122	38.2%	39
West Virginia	128	112	87.5%	5
Wisconsin	315	194	61.6%	29
Wyoming	22	---	---	---

Source: AAMC Data Warehouse Applicant Matriculant File as of October 19, 2010, accessed online at <http://www.aamc.org/data/facts> (August 14, 2011).

N.R. = Not Ranked

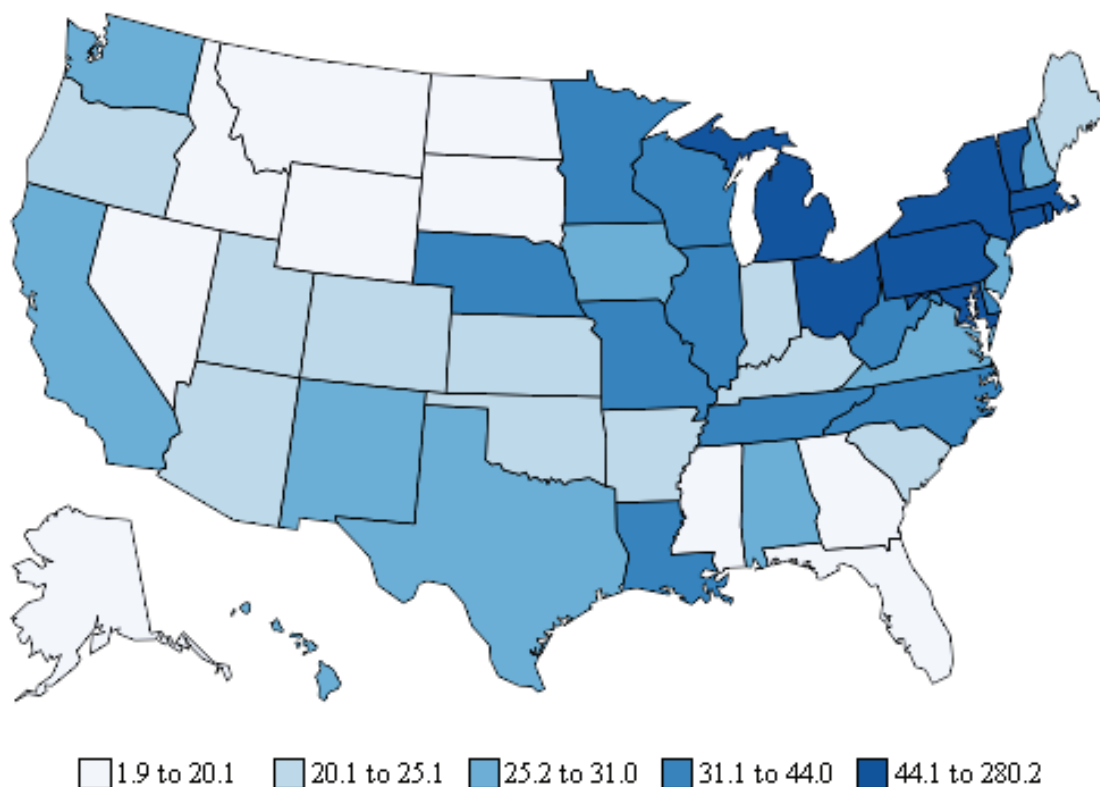
--- Indicates that the data are not applicable, as those states do not have a medical school.

\* The data shown here are for students in medical schools only. Students attending osteopathic schools are excluded.

## Key Findings – Graduate Medical Education

- In 2010, every state in the United States had at least one ACGME-accredited GME program. The number of residents and fellows in ACGME-accredited training programs per 100,000 population varied widely across the US from a low of 1.9 in Montana to a high of 83.2 in Massachusetts (see Map 6, Figure 12, and Table 12). The national average was 35.8 residents and fellows per 100,000 population.

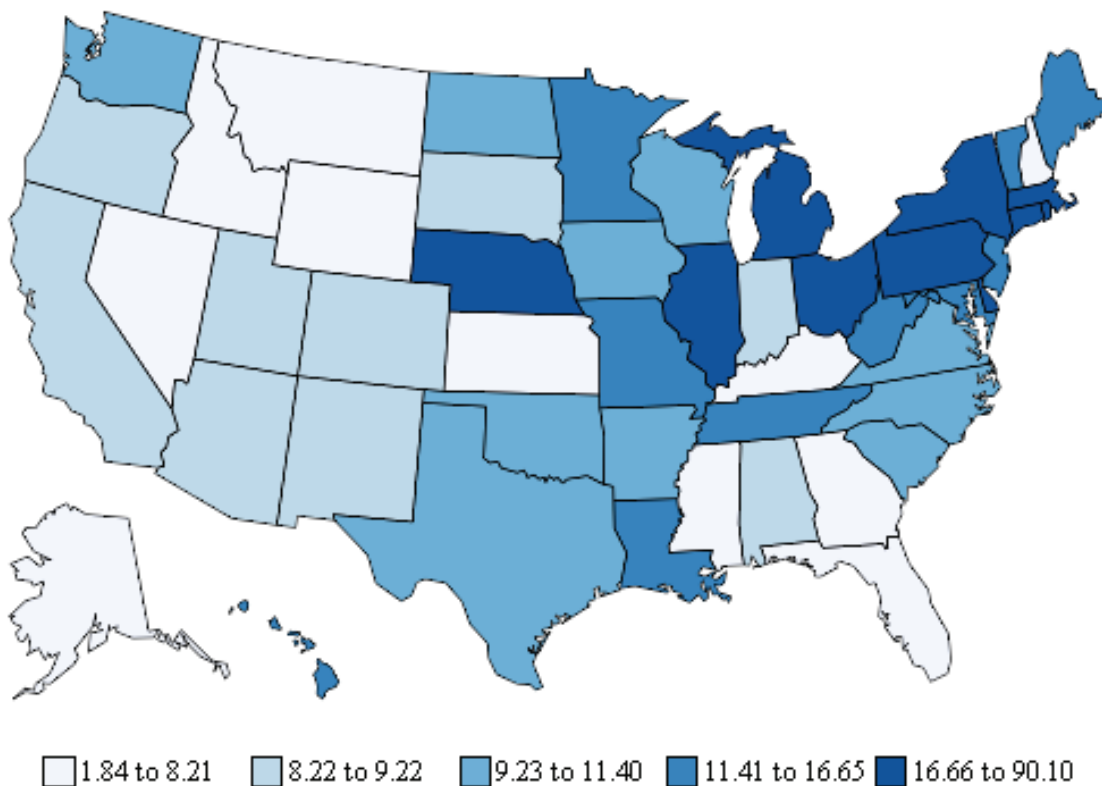
**Map 6. Residents and Fellows in ACGME-Accredited Training Programs per 100,000 Population, 2010**



Source: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011). Physicians in ACGME-accredited programs are from the 2010 AAMC/AMA National GME Census.

- There were 13.4 residents and fellows in primary care programs<sup>1</sup> accredited by the ACGME per 100,000 population in the United States in 2010. There was a wide range among the states; the highest number of residents and fellows in primary care GME programs per 100,000 population were in the Northeast (see Map 7, Figure 13, and Table 13).

**Map 7. Residents and Fellows in Primary Care Programs per 100,000 Population, 2010**

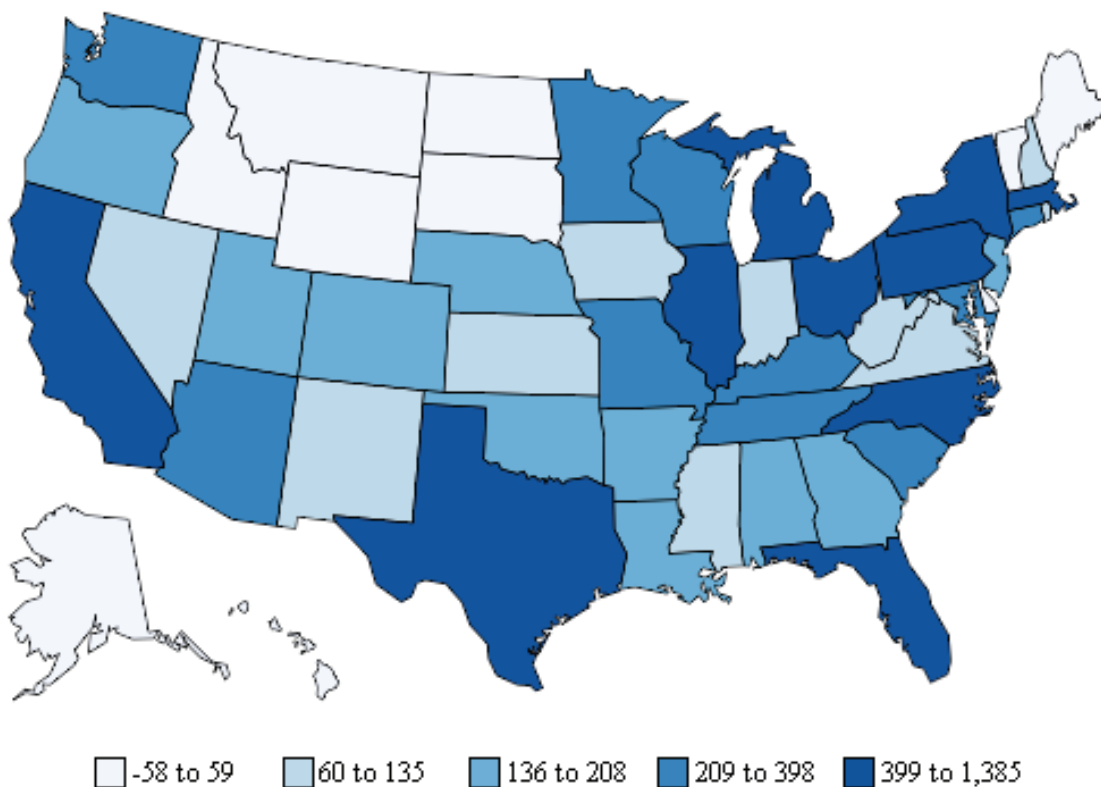


Source: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date February, 2011). Physicians in ACGME-accredited primary care programs are from the 2010 AAMC/AMA National GME Census.

<sup>1</sup> See Key Definitions for a list of specialties counted as primary care.

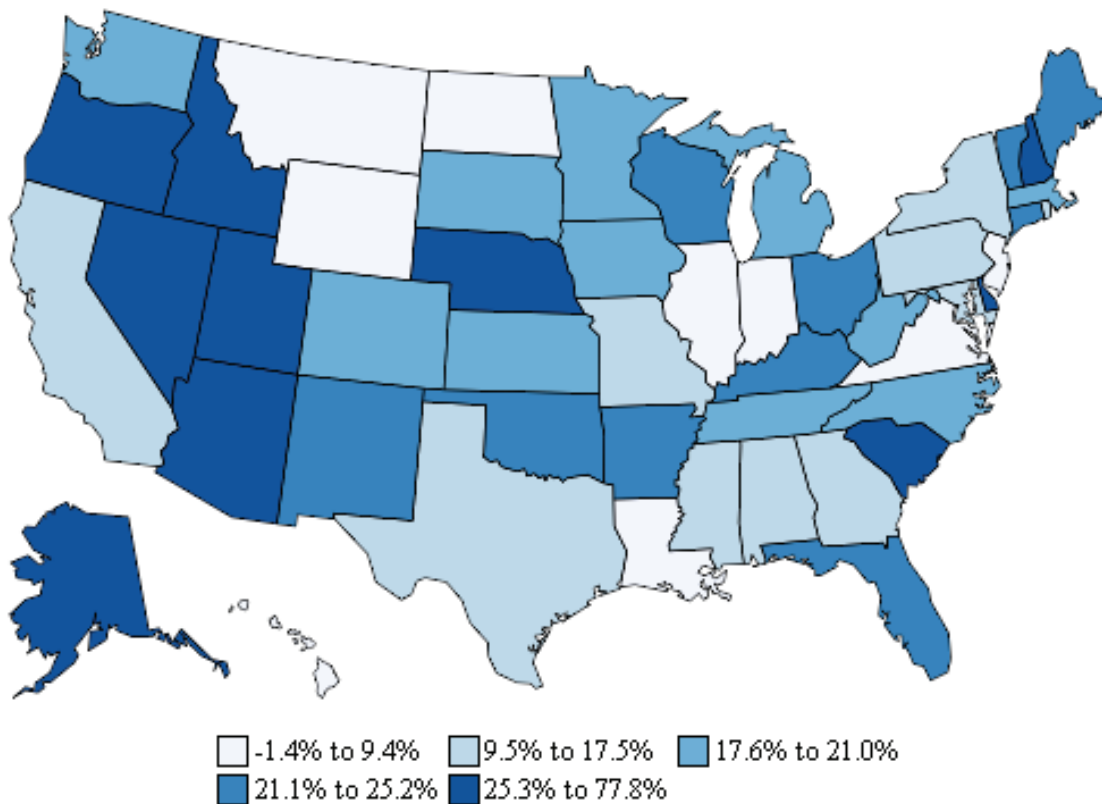
- Nationally, more than one quarter (27.4 percent) of the residents and fellows in ACGME training programs were IMGs in 2010. The percentage varied widely across the states. In Idaho, only 1.6 percent of the residents and fellows were IMGs. At the other end of the spectrum, in Wyoming nearly two thirds (64.1 percent) were IMGs (see Figure 14 and Table 14).
- In 2010, there were more residents and fellows in ACGME and OGME programs than there were students in medical and osteopathic schools in the US, due in part to the inflow of IMGs to GME. The ratio of total GME to total UME was 1.21. However, many states that had medical and osteopathic schools had fewer residents and fellows than students. Nevada had the lowest ratio of GME to UME (0.42) (see Figure 15 and Table 15).
- Between 2000 and 2010, the number of residents and fellows in ACGME programs increased by 14,720 (15.3 percent). Although most states saw an increase over that time period, Hawaii (-58, -13.5 percent), and Montana (-1, -5.0 percent) both had decreases in the number of residents and fellows (see Map 8, Figure 16, and Table 16). The rate of change varied widely by state, as can be seen in Map 9, Figure 16, and Table 16.

**Map 8. Change in Number of Residents and Fellows in ACGME Programs, 2000-2010**



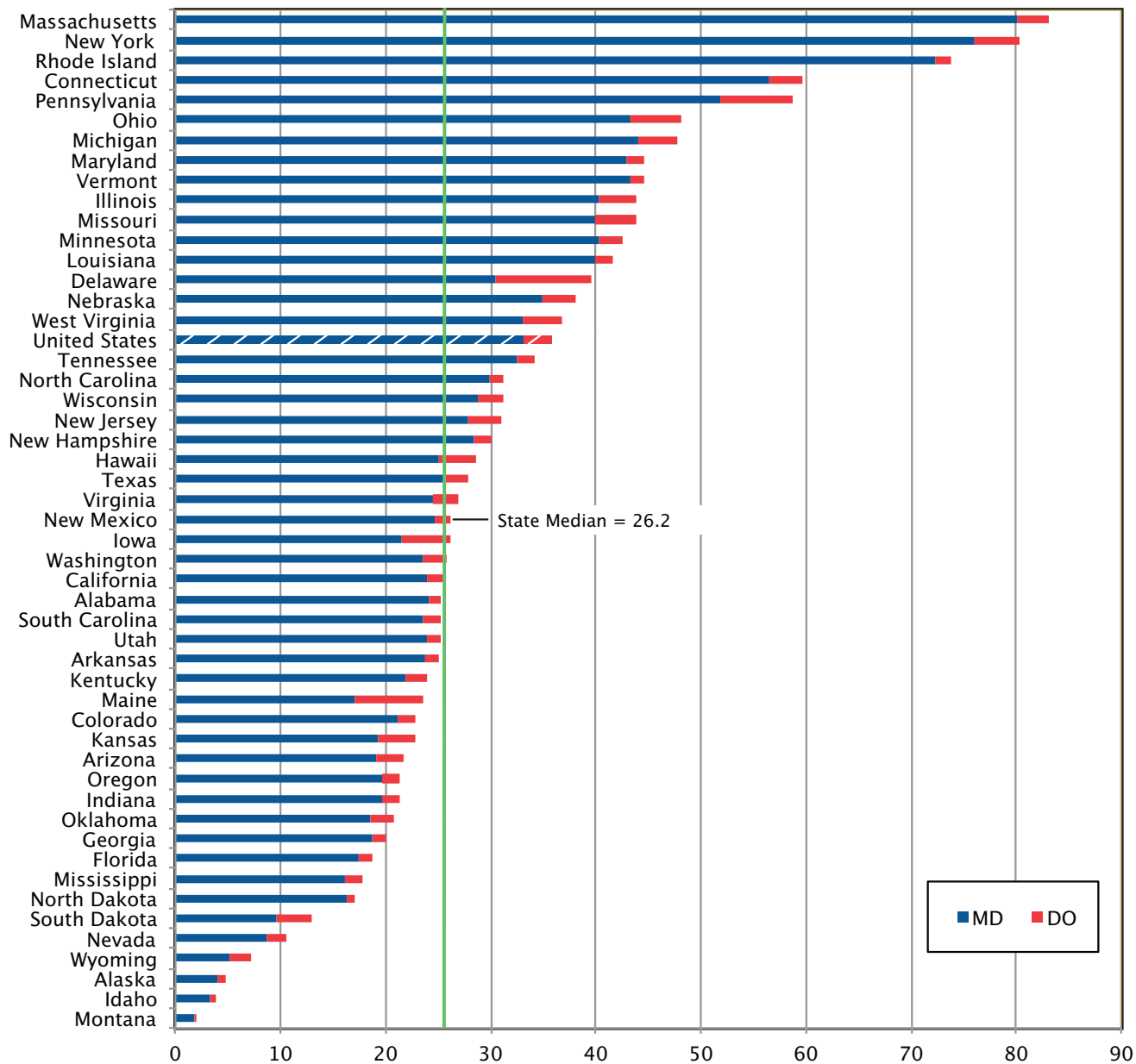
Source: JAMA.2000;284(9):1161-1162 and JAMA.2011;306(9):1022-1023.

Map 9. Percent Change in Residents and Fellows in ACGME Programs, 2000-2010



Source: JAMA.2000;284(9):1161-1162 and JAMA.2011; 306(9):1022-1023.

**Figure 12. Residents and Fellows on Duty as of December 31, 2010 in ACGME-Accredited Programs per 100,000 Population by Degree Type**



Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physicians in ACGME-accredited programs are from the 2010 AAMC/AMA National GME Census. Excludes residents whose degree type was unavailable (n=2).



**Table 12. Residents and Fellows on Duty as of December 31, 2010 in ACGME-Accredited Programs per 100,000 Population by Degree Type**

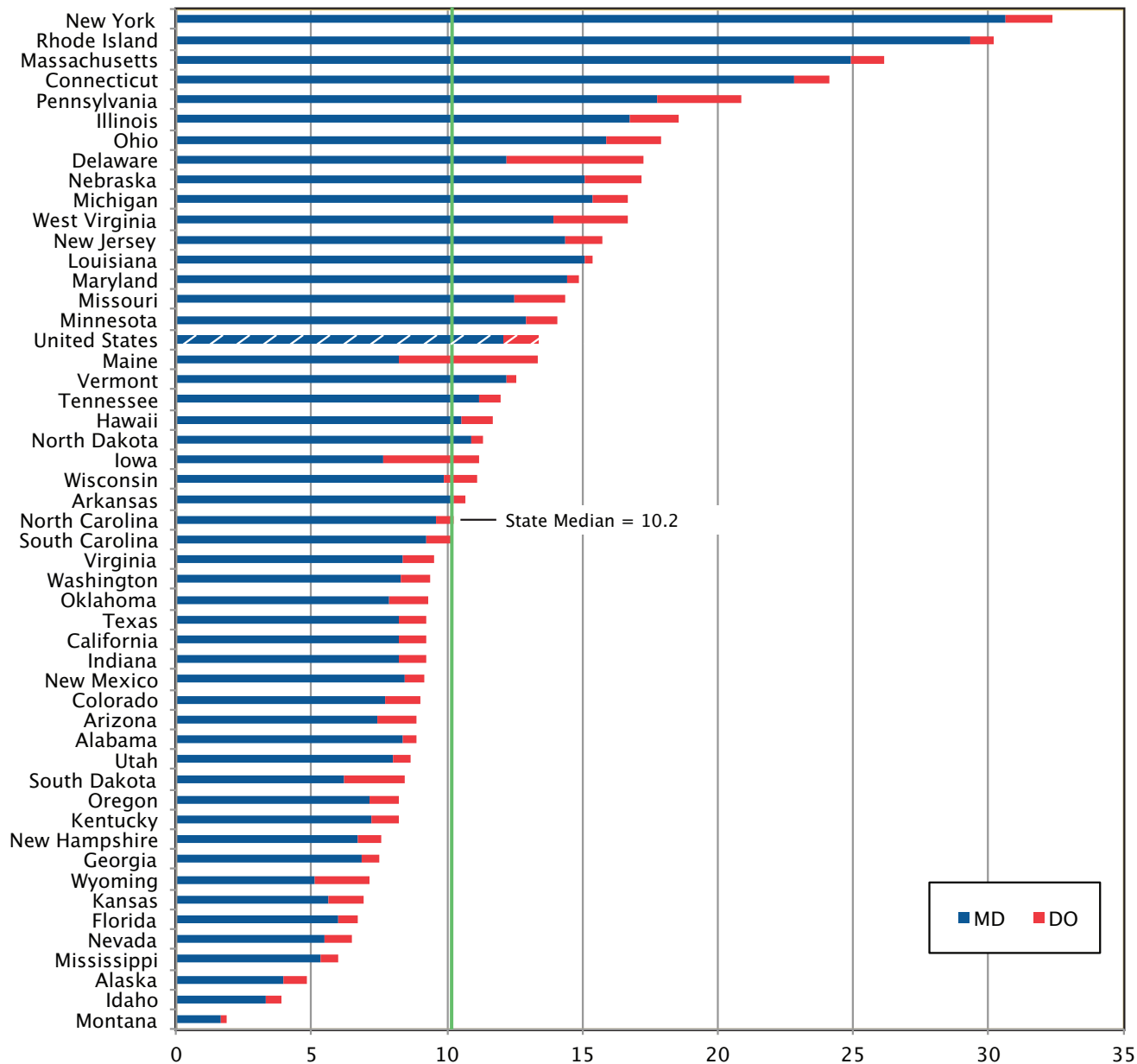
	Total Population	Total Residents/Fellows in ACGME Programs			M.D.s in ACGME Programs*		D.O.s in ACGME Programs	
		Number	Rate per 100,000		Number	Rate per 100,000	Number	Rate per 100,000
			Rank					
United States	309,050,816	110,692	35.8	N.R.	102,518	33.2	8,172	2.6
Alabama	4,729,656	1,198	25.3	29	1,145	24.2	53	1.1
Alaska	708,862	34	4.8	48	28	3.9	6	0.8
Arizona	6,676,627	1,452	21.7	37	1,274	19.1	178	2.7
Arkansas	2,910,236	729	25.0	32	694	23.8	35	1.2
California	37,266,600	9,475	25.4	28	8,908	23.9	567	1.5
Colorado	5,095,309	1,164	22.8	35	1,073	21.1	91	1.8
Connecticut	3,526,937	2,106	59.7	4	1,992	56.5	114	3.2
Delaware	891,464	352	39.5	14	271	30.4	81	9.1
District of Columbia	610,589	1,711	280.2	N.R.	1,639	268.4	72	11.8
Florida	18,678,049	3,512	18.8	42	3,246	17.4	266	1.4
Georgia	9,908,357	1,982	20.0	41	1,858	18.8	124	1.3
Hawaii	1,300,086	371	28.5	22	326	25.1	45	3.5
Idaho	1,559,796	61	3.9	49	52	3.3	9	0.6
Illinois	12,944,410	5,686	43.9	10	5,225	40.4	461	3.6
Indiana	6,445,295	1,372	21.3	39	1,270	19.7	102	1.6
Iowa	3,023,081	791	26.2	26	649	21.5	142	4.7
Kansas	2,841,121	649	22.8	36	549	19.3	100	3.5
Kentucky	4,339,435	1,038	23.9	33	951	21.9	87	2.0
Louisiana	4,529,426	1,882	41.6	13	1,813	40.0	69	1.5
Maine	1,312,939	310	23.6	34	225	17.1	85	6.5
Maryland	5,737,274	2,557	44.6	8	2,461	42.9	96	1.7
Massachusetts	6,631,280	5,515	83.2	1	5,309	80.1	206	3.1
Michigan	9,931,235	4,737	47.7	7	4,382	44.1	355	3.6
Minnesota	5,290,447	2,255	42.6	12	2,131	40.3	124	2.3
Mississippi	2,960,467	525	17.7	43	477	16.1	48	1.6
Missouri	6,011,741	2,632	43.8	11	2,400	39.9	232	3.9
Montana	980,152	19	1.9	50	17	1.7	2	0.2
Nebraska	1,811,072	691	38.2	15	634	35.0	57	3.1
Nevada	2,654,751	279	10.5	46	230	8.7	49	1.8
New Hampshire	1,323,531	397	30.0	21	376	28.4	21	1.6
New Jersey	8,732,811	2,705	31.0	20	2,439	27.9	266	3.0
New Mexico	2,033,875	534	26.3	25	503	24.7	31	1.5
New York	19,577,730	15,738	80.4	2	14,892	76.1	846	4.3
North Carolina	9,458,888	2,952	31.2	18	2,822	29.8	130	1.4
North Dakota	653,778	112	17.1	44	107	16.4	5	0.8
Ohio	11,532,111	5,554	48.2	6	4,989	43.3	564	4.9
Oklahoma	3,724,447	774	20.8	40	688	18.5	86	2.3
Oregon	3,855,536	823	21.3	38	760	19.7	63	1.6
Pennsylvania	12,632,780	7,430	58.8	5	6,540	51.8	890	7.0
Rhode Island	1,056,870	779	73.7	3	765	72.4	14	1.3
South Carolina	4,596,958	1,157	25.2	30	1,081	23.5	76	1.7
South Dakota	820,077	106	12.9	45	79	9.6	27	3.3
Tennessee	6,338,112	2,169	34.2	17	2,063	32.5	106	1.7
Texas	25,213,445	7,036	27.9	23	6,438	25.5	597	2.4
Utah	2,830,753	712	25.2	31	679	24.0	33	1.2
Vermont	622,433	277	44.5	9	270	43.4	7	1.1
Virginia	7,952,119	2,143	26.9	24	1,946	24.5	197	2.5
Washington	6,746,199	1,735	25.7	27	1,593	23.6	142	2.1
West Virginia	1,825,513	670	36.7	16	602	33.0	68	3.7
Wisconsin	5,668,519	1,765	31.1	19	1,629	28.7	136	2.4
Wyoming	547,637	39	7.1	47	28	5.1	11	2.0

Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physicians in ACGME-accredited programs are from the 2010 AAMC/AMA National GME Census.

N.R. = Not Ranked

\* Includes M.D.s from international medical schools.

**Figure 13. Residents and Fellows on Duty as of December 31, 2010 in ACGME-Accredited Primary Care Programs per 100,000 Population by Degree Type**



Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February 2011). Physicians in ACGME-accredited programs are from the 2010 AAMC/AMA National GME Census.

**Table 13. Residents and Fellows on Duty as of December 31, 2010 in ACGME-Accredited Primary Care Programs per 100,000 Population by Degree Type**

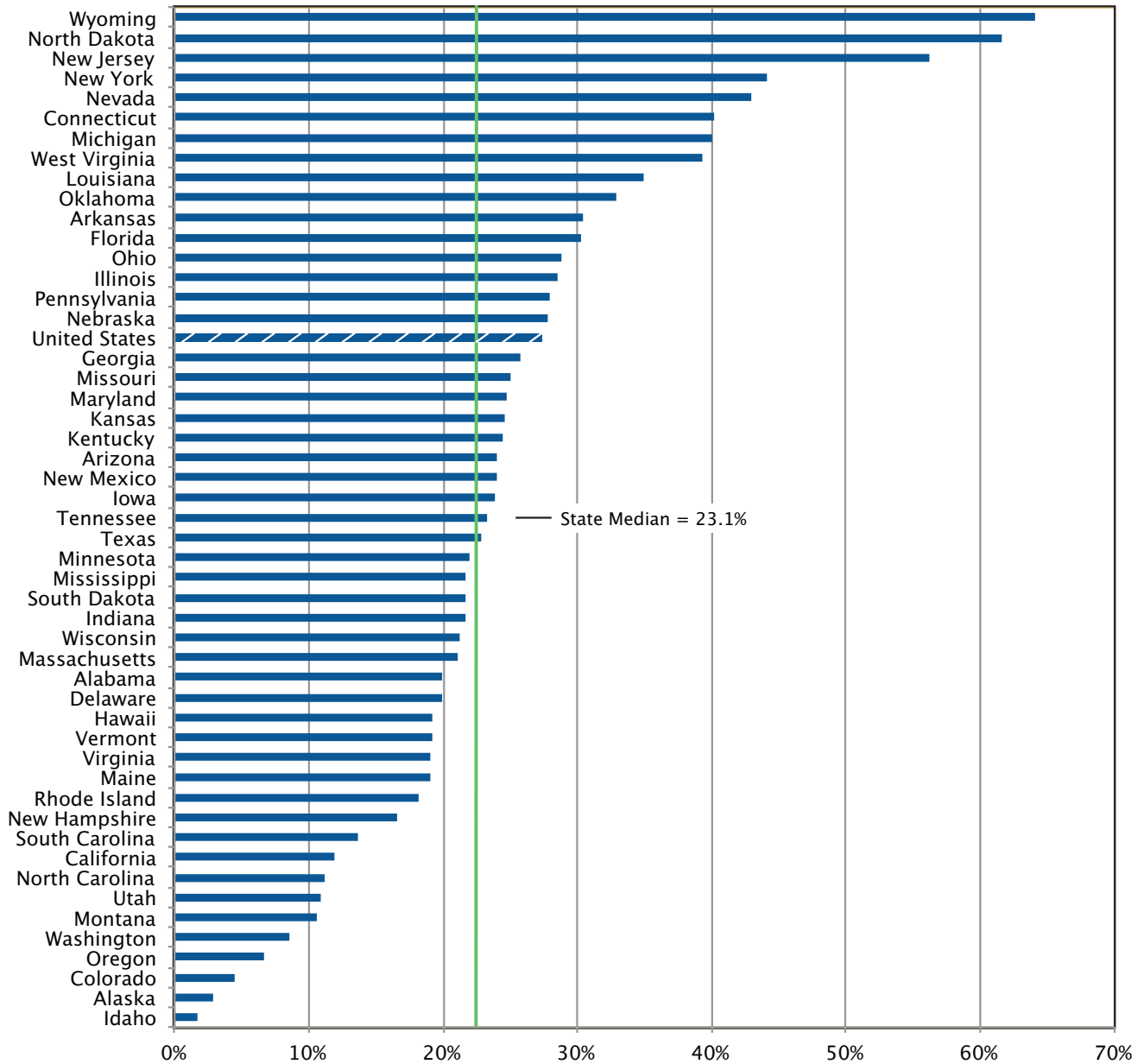
	Total Population	Total Residents in Primary Care ACGME Programs			M.D.s in Primary Care ACGME Programs*		D.O.s in Primary Care ACGME Programs	
		Number	Rate per		Number	Rate per	Number	Rate per
			100,000	Rank				
United States	309,050,816	41,339	13.4	N.R.	37,395	12.1	3,943	1.3
Alabama	4,729,656	420	8.9	36	394	8.3	26	0.5
Alaska	708,862	34	4.8	48	28	3.9	6	0.8
Arizona	6,676,627	593	8.9	35	494	7.4	99	1.5
Arkansas	2,910,236	311	10.7	24	298	10.2	13	0.4
California	37,266,600	3,435	9.2	31	3,065	8.2	370	1.0
Colorado	5,095,309	460	9.0	34	394	7.7	66	1.3
Connecticut	3,526,937	851	24.1	4	804	22.8	47	1.3
Delaware	891,464	154	17.3	8	109	12.2	45	5.0
District of Columbia	610,589	549	89.9	N.R.	538	88.1	11	1.8
Florida	18,678,049	1,254	6.7	45	1,111	5.9	143	0.8
Georgia	9,908,357	741	7.5	42	675	6.8	66	0.7
Hawaii	1,300,086	152	11.7	20	137	10.5	15	1.2
Idaho	1,559,796	60	3.8	49	51	3.3	9	0.6
Illinois	12,944,410	2,403	18.6	6	2,170	16.8	233	1.8
Indiana	6,445,295	594	9.2	32	530	8.2	64	1.0
Iowa	3,023,081	337	11.1	22	231	7.6	106	3.5
Kansas	2,841,121	196	6.9	44	160	5.6	36	1.3
Kentucky	4,339,435	356	8.2	40	313	7.2	43	1.0
Louisiana	4,529,426	695	15.3	13	683	15.1	12	0.3
Maine	1,312,939	175	13.3	17	108	8.2	67	5.1
Maryland	5,737,274	853	14.9	14	829	14.4	24	0.4
Massachusetts	6,631,280	1,734	26.1	3	1,650	24.9	84	1.3
Michigan	9,931,235	1,654	16.7	10	1,524	15.3	130	1.3
Minnesota	5,290,447	745	14.1	16	685	12.9	60	1.1
Mississippi	2,960,467	178	6.0	47	158	5.3	20	0.7
Missouri	6,011,741	863	14.4	15	751	12.5	112	1.9
Montana	980,152	18	1.8	50	16	1.6	2	0.2
Nebraska	1,811,072	311	17.2	9	273	15.1	38	2.1
Nevada	2,654,751	172	6.5	46	145	5.5	27	1.0
New Hampshire	1,323,531	100	7.6	41	89	6.7	11	0.8
New Jersey	8,732,811	1,373	15.7	12	1,255	14.4	118	1.4
New Mexico	2,033,875	187	9.2	33	171	8.4	16	0.8
New York	19,577,730	6,336	32.4	1	5,990	30.6	346	1.8
North Carolina	9,458,888	968	10.2	25	910	9.6	58	0.6
North Dakota	653,778	74	11.3	21	71	10.9	3	0.5
Ohio	11,532,111	2,068	17.9	7	1,834	15.9	234	2.0
Oklahoma	3,724,447	347	9.3	29	293	7.9	54	1.4
Oregon	3,855,536	318	8.2	39	275	7.1	43	1.1
Pennsylvania	12,632,780	2,636	20.9	5	2,244	17.8	392	3.1
Rhode Island	1,056,870	319	30.2	2	310	29.3	9	0.9
South Carolina	4,596,958	468	10.2	26	423	9.2	45	1.0
South Dakota	820,077	69	8.4	38	51	6.2	18	2.2
Tennessee	6,338,112	760	12.0	19	707	11.2	53	0.8
Texas	25,213,445	2,335	9.3	30	2,078	8.2	256	1.0
Utah	2,830,753	245	8.7	37	227	8.0	18	0.6
Vermont	622,433	78	12.5	18	76	12.2	2	0.3
Virginia	7,952,119	755	9.5	27	665	8.4	90	1.1
Washington	6,746,199	633	9.4	28	559	8.3	74	1.1
West Virginia	1,825,513	304	16.7	11	254	13.9	50	2.7
Wisconsin	5,668,519	629	11.1	23	561	9.9	68	1.2
Wyoming	547,637	39	7.1	43	28	5.1	11	2.0

Sources: July 1, 2010 population estimates are from the U.S. Census Bureau (Release date: February, 2011). Physicians in ACGME-accredited primary care programs are from the 2010 AAMC/AMA National GME Census.

N.R. = Not Ranked

\* Includes M.D.s from international medical schools.

**Figure 14. Percentage of Residents and Fellows in ACGME-Accredited Programs Who Are International Medical Graduates (IMGs), December 31, 2010**



Source: 2010 AAMC/AMA National GME Census.

**Table 14. Residents and Fellows on Duty as of December 31, 2010 in ACGME-Accredited Programs by Medical School Type**

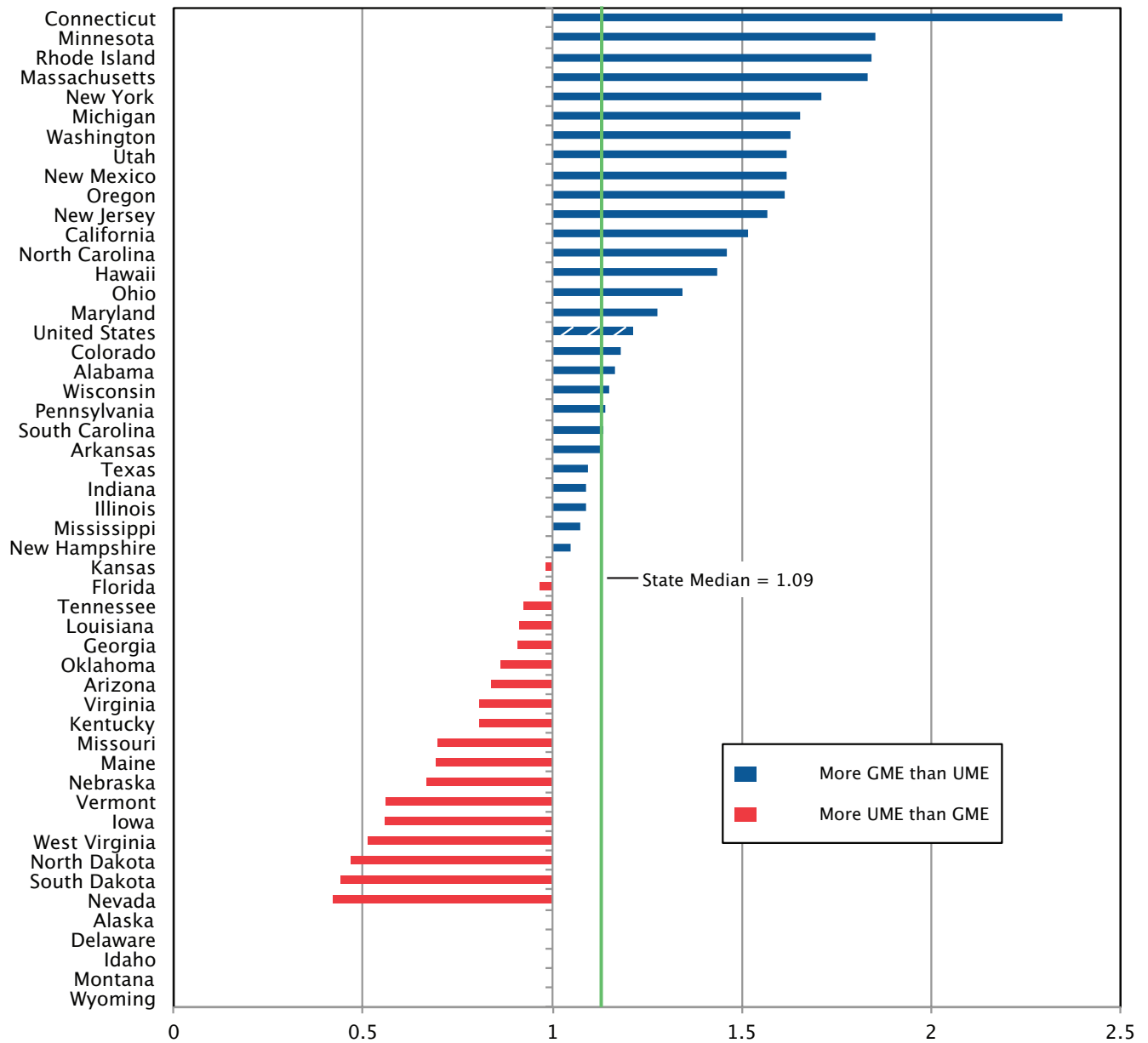
	Total Residents/ Fellows*	U.S.M.D.		D.O.		IMG		
		Number	Percent	Number	Percent	Number	Percent	Rank
United States	110,692	71,989	65.0%	8,172	7.4%	30,287	27.4%	N.R.
Alabama	1,198	904	75.5%	53	4.4%	239	19.9%	33
Alaska	34	27	79.4%	6	17.6%	1	2.9%	49
Arizona	1,452	923	63.6%	178	12.3%	349	24.0%	22
Arkansas	729	472	64.7%	35	4.8%	222	30.5%	11
California	9,475	7,754	81.8%	567	6.0%	1,125	11.9%	42
Colorado	1,164	1,018	87.5%	91	7.8%	52	4.5%	48
Connecticut	2,106	1,137	54.0%	114	5.4%	845	40.1%	6
Delaware	352	201	57.1%	81	23.0%	70	19.9%	34
District of Columbia	1,711	1,232	72.0%	72	4.2%	405	23.7%	N.R.
Florida	3,512	2,176	62.0%	266	7.6%	1,064	30.3%	12
Georgia	1,982	1,346	67.9%	124	6.3%	510	25.7%	17
Hawaii	371	255	68.7%	45	12.1%	71	19.1%	35
Idaho	61	51	83.6%	9	14.8%	1	1.6%	50
Illinois	5,686	3,595	63.2%	461	8.1%	1,621	28.5%	14
Indiana	1,372	970	70.7%	102	7.4%	297	21.6%	30
Iowa	791	458	57.9%	142	18.0%	189	23.9%	24
Kansas	649	389	59.9%	100	15.4%	160	24.7%	20
Kentucky	1,038	696	67.1%	87	8.4%	253	24.4%	21
Louisiana	1,882	1,155	61.4%	69	3.7%	658	35.0%	9
Maine	310	166	53.5%	85	27.4%	59	19.0%	38
Maryland	2,557	1,824	71.3%	96	3.8%	632	24.7%	19
Massachusetts	5,515	4,103	74.4%	206	3.7%	1,163	21.1%	32
Michigan	4,737	2,483	52.4%	355	7.5%	1,894	40.0%	7
Minnesota	2,255	1,623	72.0%	124	5.5%	496	22.0%	27
Mississippi	525	363	69.1%	48	9.1%	114	21.7%	28
Missouri	2,632	1,735	65.9%	232	8.8%	659	25.0%	18
Montana	19	15	78.9%	2	10.5%	2	10.5%	45
Nebraska	691	442	64.0%	57	8.2%	192	27.8%	16
Nevada	279	110	39.4%	49	17.6%	120	43.0%	5
New Hampshire	397	309	77.8%	21	5.3%	66	16.6%	40
New Jersey	2,705	914	33.8%	266	9.8%	1,522	56.3%	3
New Mexico	534	374	70.0%	31	5.8%	128	24.0%	23
New York	15,738	7,912	50.3%	846	5.4%	6,938	44.1%	4
North Carolina	2,952	2,482	84.1%	130	4.4%	332	11.2%	43
North Dakota	112	37	33.0%	5	4.5%	69	61.6%	2
Ohio	5,554	3,382	60.9%	564	10.2%	1,600	28.8%	13
Oklahoma	774	433	55.9%	86	11.1%	255	32.9%	10
Oregon	823	704	85.5%	63	7.7%	55	6.7%	47
Pennsylvania	7,430	4,454	59.9%	890	12.0%	2,074	27.9%	15
Rhode Island	779	620	79.6%	14	1.8%	142	18.2%	39
South Carolina	1,157	923	79.8%	76	6.6%	158	13.7%	41
South Dakota	106	56	52.8%	27	25.5%	23	21.7%	29
Tennessee	2,169	1,556	71.7%	106	4.9%	505	23.3%	25
Texas	7,036	4,829	68.6%	597	8.5%	1,608	22.9%	26
Utah	712	599	84.1%	33	4.6%	77	10.8%	44
Vermont	277	214	77.3%	7	2.5%	53	19.1%	36
Virginia	2,143	1,534	71.6%	197	9.2%	409	19.1%	37
Washington	1,735	1,441	83.1%	142	8.2%	148	8.5%	46
West Virginia	670	338	50.4%	68	10.1%	263	39.3%	8
Wisconsin	1,765	1,252	70.9%	136	7.7%	374	21.2%	31
Wyoming	39	3	7.7%	11	28.2%	25	64.1%	1

Source: 2010 AAMC/AMA National GME Census

N.R. = Not Ranked

\* Total includes 242 physicians who are graduates of Canadian schools and 2 physicians whose medical school information is unknown.

**Figure 15. Ratio of Residents and Fellows (GME) to Medical and Osteopathic Students (UME), Academic Year 2009-2010**



Sources: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010. Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org> (August 4, 2011). Residents on duty in ACGME programs are from JAMA. 2010;304(11):1262. Residents on duty in OGME programs are from JAOA. 2011;111(4):235.

**Table 15. Ratio of Residents and Fellows (GME) to Medical and Osteopathic Students (UME), Academic Year 2009-2010\***

	Students Enrolled in UME			Residents and Fellows in GME			GME to UME Ratio	Rank
	Total	Medical School	Osteopathic School	Total	ACGME Programs	OGME Programs		
United States	94,482	76,339	18,143	114,558	108,753	5,805	1.21	N.R.
Alabama	1,037	1,037	---	1,206	1,206	0	1.16	18
Alaska	---	---	---	44	35	9	---	---
Arizona	1,710	597	1,113	1,434	1,395	39	0.84	34
Arkansas	633	633	---	715	713	2	1.13	22
California	6,430	5,007	1,423	9,765	9,543	222	1.52	12
Colorado	991	679	312	1,170	1,167	3	1.18	17
Connecticut	877	877	---	2,057	2,053	4	2.35	1
Delaware	---	---	---	271	253	18	---	---
District of Columbia	2,050	2,050	---	1,741	1,741	---	0.85	N.R.
Florida	3,898	2,344	1,554	3,769	3,397	372	0.97	29
Georgia	2,233	1,894	339	2,026	2,005	21	0.91	32
Hawaii	254	254	---	365	365	---	1.44	14
Idaho	---	---	---	55	55	---	---	---
Illinois	5,623	4,901	722	6,114	5,792	322	1.09	25
Indiana	1,256	1,256	---	1,366	1,344	22	1.09	24
Iowa	1,510	641	869	842	814	28	0.56	41
Kansas	739	739	---	726	715	11	0.98	28
Kentucky	1,396	1,094	302	1,127	1,106	21	0.81	36
Louisiana	1,975	1,975	---	1,803	1,803	---	0.91	31
Maine	495	---	495	343	301	42	0.69	38
Maryland	1,933	1,933	---	2,470	2,470	---	1.28	16
Massachusetts	2,900	2,900	---	5,318	5,303	15	1.83	4
Michigan	3,608	2,649	959	5,976	4,595	1,381	1.66	6
Minnesota	1,200	1,200	---	2,225	2,215	10	1.85	2
Mississippi	468	468	---	502	496	6	1.07	26
Missouri	3,837	2,126	1,711	2,671	2,550	121	0.70	37
Montana	---	---	---	19	19	---	---	---
Nebraska	1,004	1,004	---	669	669	---	0.67	39
Nevada	770	247	523	323	253	70	0.42	45
New Hampshire	366	366	---	384	384	---	1.05	27
New Jersey	1,945	1,482	463	3,051	2,680	371	1.57	11
New Mexico	332	332	---	537	537	---	1.62	9
New York	9,504	7,934	1,570	16,254	15,658	596	1.71	5
North Carolina	2,006	2,006	---	2,934	2,923	11	1.46	13
North Dakota	246	246	---	115	115	---	0.47	43
Ohio	4,547	4,084	463	6,102	5,471	631	1.34	15
Oklahoma	1,027	670	357	886	749	137	0.86	33
Oregon	522	522	---	843	832	11	1.61	10
Pennsylvania	7,218	5,044	2,174	8,228	7,334	894	1.14	20
Rhode Island	430	430	---	792	769	23	1.84	3
South Carolina	1,023	1,023	---	1,161	1,146	15	1.13	21
South Dakota	218	218	---	96	96	---	0.44	44
Tennessee	2,329	1,854	475	2,153	2,140	13	0.92	30
Texas	6,373	5,688	685	6,960	6,840	120	1.09	23
Utah	415	415	---	672	672	---	1.62	8
Vermont	478	478	---	268	268	---	0.56	40
Virginia	2,573	1,866	707	2,078	2,001	77	0.81	35
Washington	1,050	901	149	1,711	1,706	5	1.63	7
West Virginia	1,523	745	778	780	653	127	0.51	42
Wisconsin	1,530	1,530	---	1,757	1,726	31	1.15	19
Wyoming	---	---	---	44	40	4	---	---

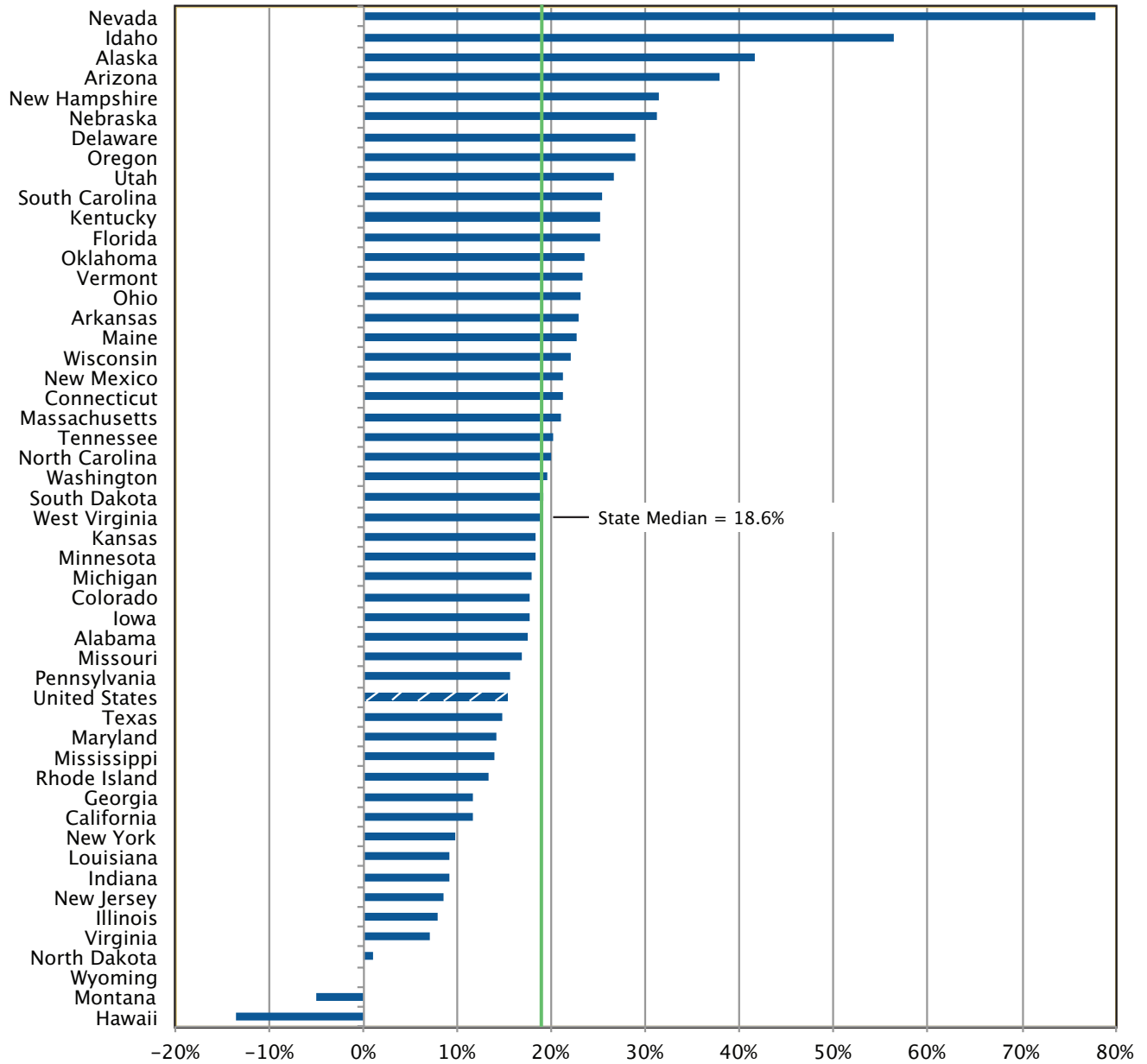
Sources: Medical enrollment data are from the AAMC Data Warehouse STUDENT file as of October 26, 2010. Osteopathic enrollment data are from *Osteopathic Medical College Information Book: 2012 Entering Class*, accessed online at <http://www.aacom.org> (August 4, 2011). Residents on duty in ACGME programs are from JAMA. 2010;304(11):1262. Residents on duty in OGME programs are from JAOA. 2011;111(4):235.

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states did not have a medical or osteopathic school or a GME program in the 2009-2010 academic year.

\*GME data in this table are from academic year 2009-2010, which differs from other tables. OGME data for 2010-2011 were not available at time of printing.

Figure 16. Percentage Change in Number of Residents and Fellows in ACGME-Accredited Programs, 2000 to 2010



Sources: JAMA.2001;286(9):1097-1098 and JAMA.2011; 306(9):1022-1023.



**Table 16. Change in Number of Residents and Fellows in ACGME-Accredited Programs, 2000 and 2010**

	Total Residents and Fellows in ACGME-Accredited Programs				
	2000	2010	Number Change	Percent Change	Rank
United States	96,117	110,837	14,720	15.3%	N.R.
Alabama	1,047	1,230	183	17.5%	32
Alaska	24	34	10	41.7%	3
Arizona	1,055	1,453	398	37.7%	4
Arkansas	594	730	136	22.9%	16
California	8,661	9,656	995	11.5%	40
Colorado	991	1,166	175	17.7%	30
Connecticut	1,739	2,106	367	21.1%	20
Delaware	204	263	59	28.9%	7
District of Columbia	1,769	1,758	-11	-0.6%	N.R.
Florida	2,792	3,491	699	25.0%	12
Georgia	1,787	1,994	207	11.6%	39
Hawaii	429	371	-58	-13.5%	50
Idaho	39	61	22	56.4%	2
Illinois	5,323	5,739	416	7.8%	45
Indiana	1,254	1,367	113	9.0%	43
Iowa	705	829	124	17.6%	31
Kansas	594	702	108	18.2%	27
Kentucky	872	1,091	219	25.1%	11
Louisiana	1,723	1,881	158	9.2%	42
Maine	252	309	57	22.6%	17
Maryland	2,164	2,471	307	14.2%	36
Massachusetts	4,531	5,482	951	21.0%	21
Michigan	4,012	4,726	714	17.8%	29
Minnesota	1,906	2,252	346	18.2%	28
Mississippi	461	525	64	13.9%	37
Missouri	2,242	2,619	377	16.8%	33
Montana	20	19	-1	-5.0%	49
Nebraska	528	692	164	31.1%	6
Nevada	158	281	123	77.8%	1
New Hampshire	302	397	95	31.5%	5
New Jersey	2,479	2,687	208	8.4%	44
New Mexico	435	527	92	21.1%	19
New York	14,327	15,712	1,385	9.7%	41
North Carolina	2,472	2,964	492	19.9%	23
North Dakota	110	111	1	0.9%	47
Ohio	4,511	5,552	1,041	23.1%	15
Oklahoma	629	777	148	23.5%	13
Oregon	637	821	184	28.9%	8
Pennsylvania	6,490	7,495	1,005	15.5%	34
Rhode Island	687	778	91	13.2%	38
South Carolina	930	1,166	236	25.4%	10
South Dakota	89	106	17	19.1%	25
Tennessee	1,803	2,164	361	20.0%	22
Texas	6,130	7,027	897	14.6%	35
Utah	566	716	150	26.5%	9
Vermont	224	276	52	23.2%	14
Virginia	1,922	2,057	135	7.0%	46
Washington	1,450	1,733	283	19.5%	24
West Virginia	564	671	107	19.0%	26
Wisconsin	1,445	1,763	318	22.0%	18
Wyoming	39	39	0	0.0%	48

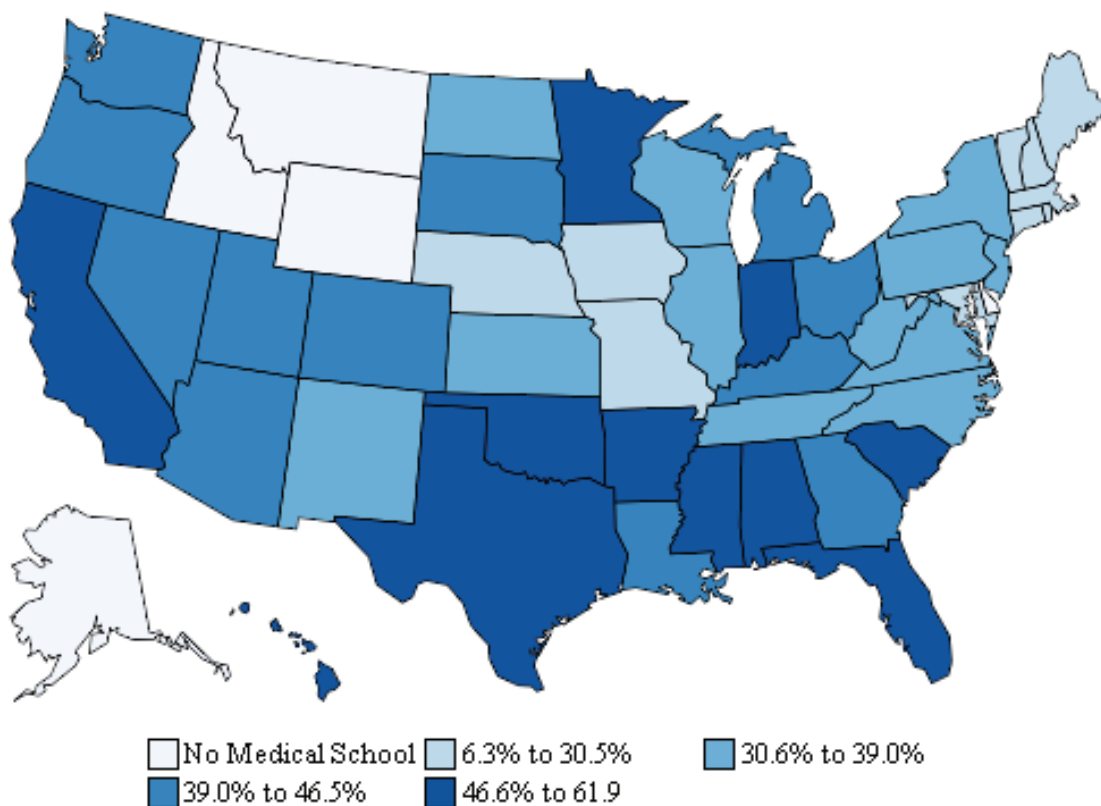
Sources: JAMA.2001;286(9):1097-1098 and JAMA.2011;306(9):1022-1023.

N.R. = Not Ranked

## Key Findings – Retention

- Overall, 38.6 percent of medical and osteopathic students end up practicing in the same state where they received their undergraduate medical education (UME). Seven of the top 10 states in terms of UME retention were in the South (see Map 10, Figure 17, and Table 17).

**Map 10. Percentage of Physicians Retained From UME, 2010**

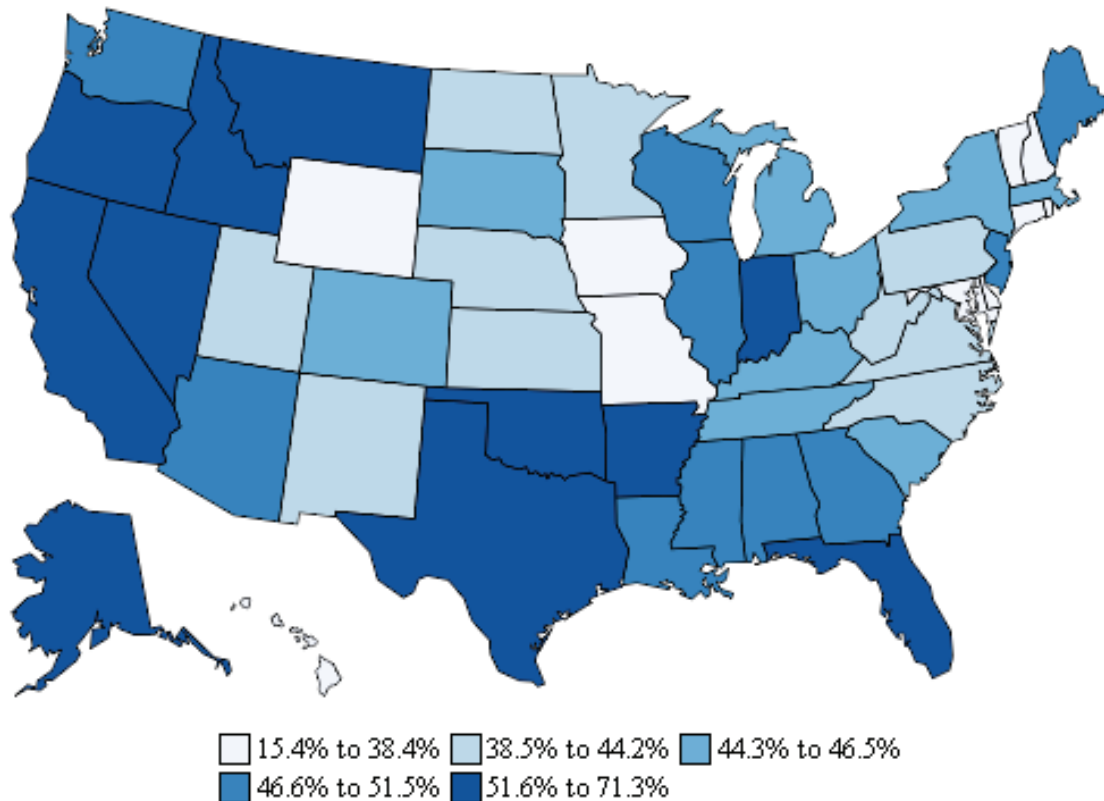


Source: AMA Physician Masterfile (December 31, 2010)

- In 2010, 46.8 percent of the physicians who graduated from a public medical or osteopathic school were practicing in the state from which they graduated (see Figure 18 and Table 18).

- After completing training in an ACGME-accredited program, 47.8 percent of physicians either stayed or returned to the state where they completed their most recent graduate medical education (GME). Six of the top 10 states with the highest GME retention rates were in the West (see Map 11, Figure 19, and Table 19).

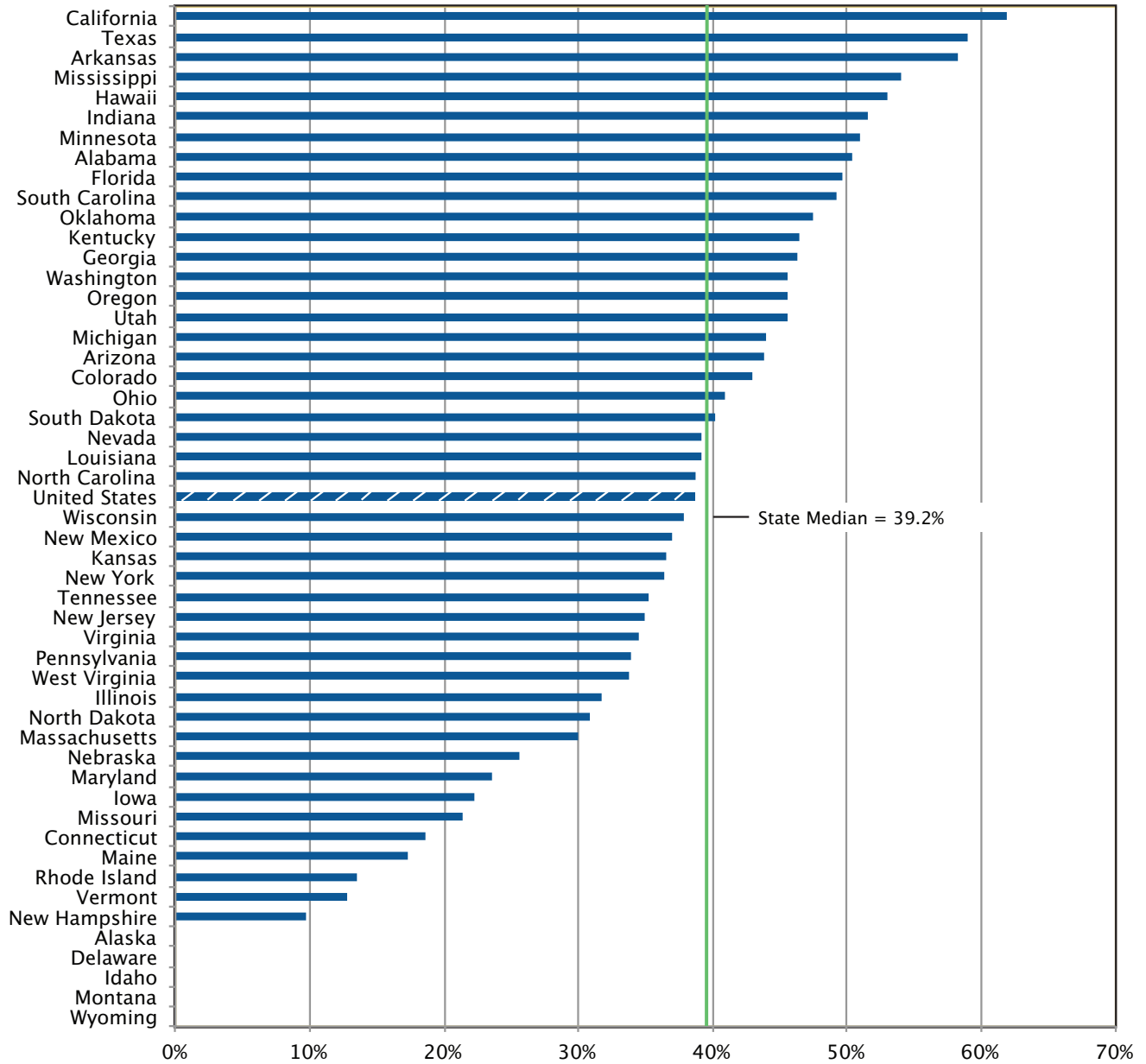
**Map 11. Percentage of Residents and Fellows Retained From ACGME Programs, 2010**



Source: AMA Physician Masterfile (December 31, 2010)

- Retention rates were highest for physicians who completed both UME and GME in the same state. Two thirds (66.6 percent) of the physicians who completed UME and GME in the same state remained in state to practice. In terms of overall retention (i.e., UME and GME were completed in the same state), 8 of the top 10 states were in the South and West (see Figure 20 and Table 20).

Figure 17. Physicians Retained from Undergraduate Medical Education (UME)



Source: AMA Physician Masterfile (December 31, 2010).

**Table 17. Physicians Retained from Undergraduate Medical Education (UME)**

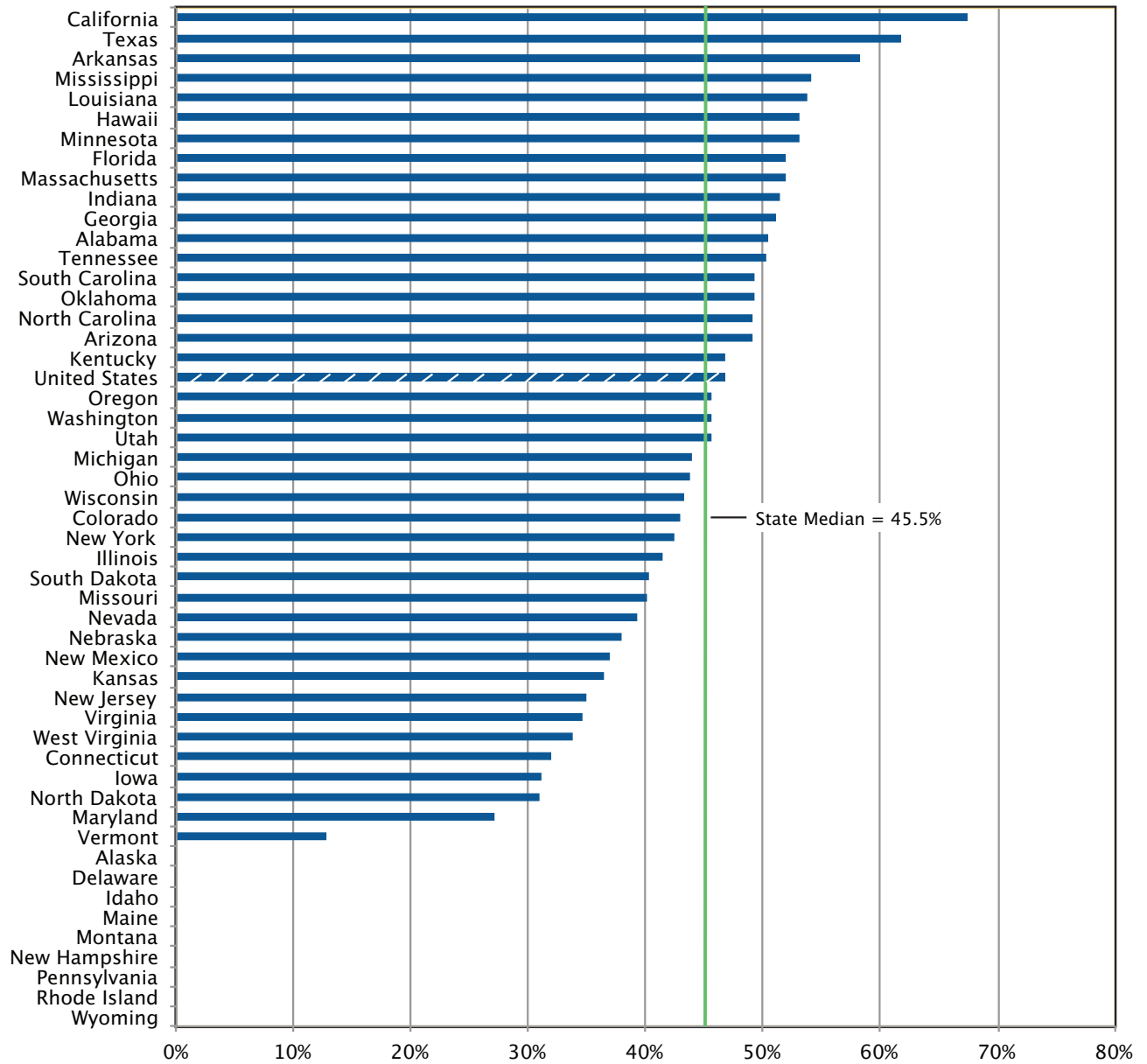
	Active Physicians Who Graduated from Medical or Osteopathic School In-State	Active Physicians Who Graduated from Medical or Osteopathic School In-State and Are Active In-State		
		Number	Percent	Rank
United States	596,819	230,655	38.6%	N.R.
Alabama	7,083	3,572	50.4%	8
Alaska	---	---	---	---
Arizona	3,583	1,571	43.8%	18
Arkansas	4,641	2,702	58.2%	3
California	38,038	23,556	61.9%	1
Colorado	4,600	1,974	42.9%	19
Connecticut	6,275	1,166	18.6%	41
Delaware	---	---	---	---
District of Columbia	16,155	1,011	6.3%	N.R.
Florida	14,284	7,088	49.6%	9
Georgia	11,545	5,343	46.3%	13
Hawaii	1,767	937	53.0%	5
Idaho	---	---	---	---
Illinois	40,902	12,988	31.8%	34
Indiana	9,873	5,084	51.5%	6
Iowa	12,040	2,675	22.2%	39
Kansas	6,313	2,303	36.5%	27
Kentucky	8,416	3,904	46.4%	12
Louisiana	14,736	5,771	39.2%	23
Maine	1,948	337	17.3%	42
Maryland	13,939	3,278	23.5%	38
Massachusetts	20,584	6,178	30.0%	36
Michigan	22,698	9,984	44.0%	17
Minnesota	10,055	5,128	51.0%	7
Mississippi	3,918	2,117	54.0%	4
Missouri	26,557	5,672	21.4%	40
Montana	---	---	---	---
Nebraska	8,772	2,251	25.7%	37
Nevada	1,225	480	39.2%	22
New Hampshire	2,010	195	9.7%	45
New Jersey	10,382	3,633	35.0%	30
New Mexico	2,208	815	36.9%	26
New York	66,783	24,257	36.3%	28
North Carolina	14,106	5,469	38.8%	24
North Dakota	1,470	454	30.9%	35
Ohio	28,973	11,846	40.9%	20
Oklahoma	7,607	3,611	47.5%	11
Oregon	3,645	1,661	45.6%	15
Pennsylvania	46,895	15,871	33.8%	32
Rhode Island	2,015	273	13.5%	43
South Carolina	6,456	3,179	49.2%	10
South Dakota	1,335	537	40.2%	21
Tennessee	14,205	5,001	35.2%	29
Texas	36,401	21,494	59.0%	2
Utah	3,511	1,599	45.5%	16
Vermont	3,163	406	12.8%	44
Virginia	13,022	4,491	34.5%	31
Washington	5,627	2,567	45.6%	14
West Virginia	5,619	1,898	33.8%	33
Wisconsin	11,439	4,328	37.8%	25
Wyoming	---	---	---	---

Source: AMA Physician Masterfile (December 31, 2010)

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states do not have a medical or osteopathic school.

**Figure 18. Physicians Retained from Public Undergraduate Medical Education**



Source: AMA Physician Masterfile (December 31, 2010).

**Table 18. Physicians Retained from Public Undergraduate Medical Education**

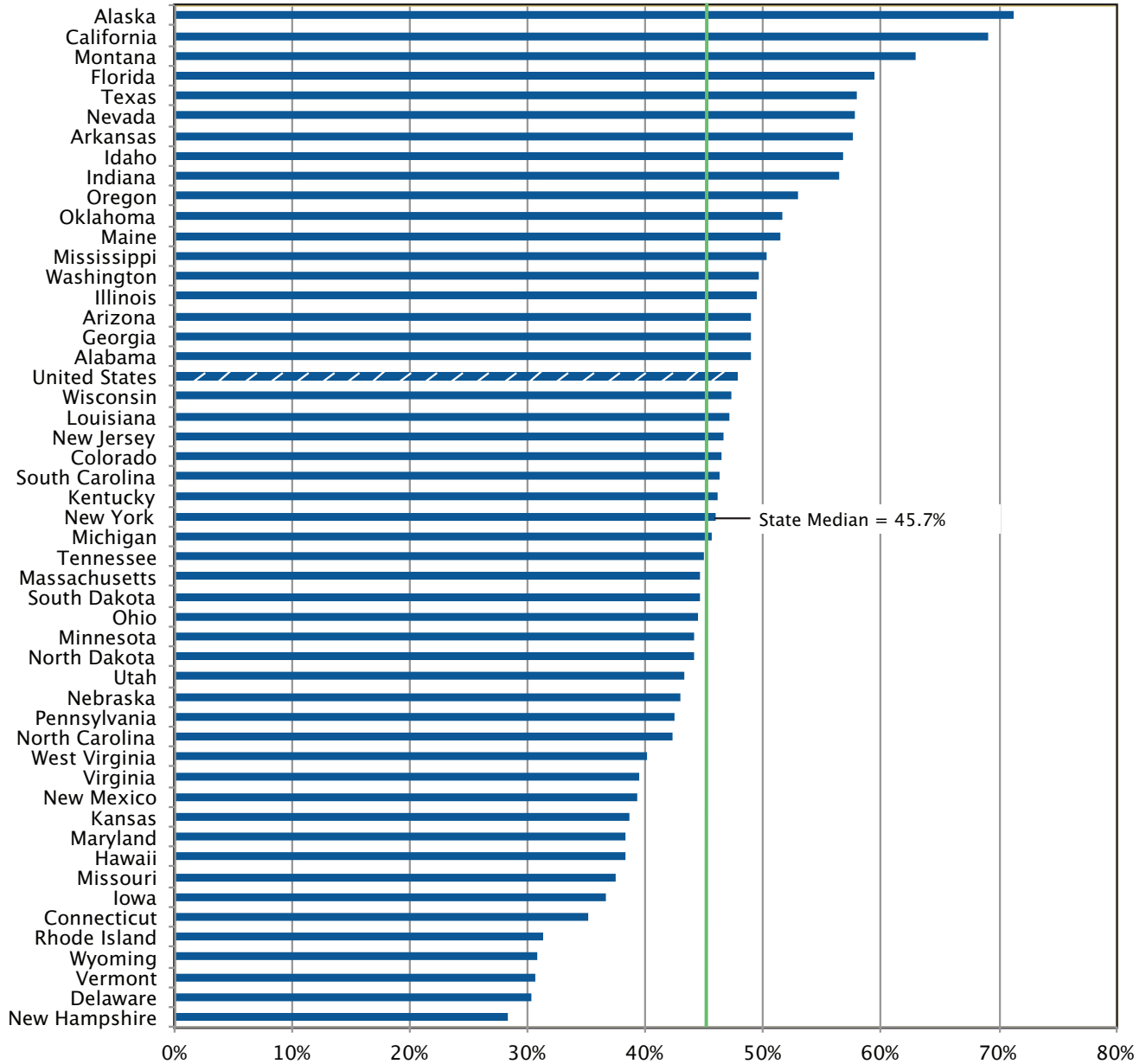
	Active Physicians Who Graduated from Public Medical or Osteopathic School In-State	Active Physicians Who Graduated from Public Medical or Osteopathic School In-State and Are Active In-State		
		Number	Percent	Rank
United States	327,717	153,255	46.8%	N.R.
Alabama	7,083	3,572	50.4%	12
Alaska	---	---	---	---
Arizona	2,810	1,378	49.0%	17
Arkansas	4,641	2,702	58.2%	3
California	21,067	14,211	67.5%	1
Colorado	4,600	1,974	42.9%	25
Connecticut	2,430	778	32.0%	37
Delaware	---	---	---	---
District of Columbia	---	---	---	N.R.
Florida	6,421	3,332	51.9%	8
Georgia	6,073	3,105	51.1%	11
Hawaii	1,767	937	53.0%	6
Idaho	---	---	---	---
Illinois	12,708	5,270	41.5%	27
Indiana	9,873	5,084	51.5%	10
Iowa	5,950	1,852	31.1%	38
Kansas	6,313	2,303	36.5%	33
Kentucky	8,088	3,784	46.8%	18
Louisiana	8,978	4,821	53.7%	5
Maine	---	---	---	---
Maryland	9,478	2,576	27.2%	40
Massachusetts	2,728	1,415	51.9%	9
Michigan	22,698	9,984	44.0%	22
Minnesota	8,909	4,723	53.0%	7
Mississippi	3,918	2,117	54.0%	4
Missouri	6,096	2,440	40.0%	29
Montana	---	---	---	---
Nebraska	4,697	1,785	38.0%	31
Nevada	1,224	480	39.2%	30
New Hampshire	---	---	---	---
New Jersey	10,382	3,633	35.0%	34
New Mexico	2,208	815	36.9%	32
New York	21,346	9,040	42.3%	26
North Carolina	6,657	3,272	49.2%	16
North Dakota	1,470	454	30.9%	39
Ohio	23,840	10,435	43.8%	23
Oklahoma	7,281	3,581	49.2%	15
Oregon	3,645	1,661	45.6%	19
Pennsylvania	---	---	---	---
Rhode Island	---	---	---	---
South Carolina	6,456	3,179	49.2%	14
South Dakota	1,335	537	40.2%	28
Tennessee	7,808	3,923	50.2%	13
Texas	30,668	18,913	61.7%	2
Utah	3,511	1,599	45.5%	21
Vermont	3,163	406	12.8%	41
Virginia	12,967	4,480	34.5%	35
Washington	5,618	2,560	45.6%	20
West Virginia	5,619	1,898	33.8%	36
Wisconsin	5,193	2,246	43.3%	24
Wyoming	---	---	---	---

Source: AMA Physician Masterfile (December 31, 2010)

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states do not have a public medical or osteopathic school.

Figure 19. Physicians Retained from GME



Source: AMA Physician Masterfile (December 31, 2010)



**Table 19. Physicians Retained from GME**

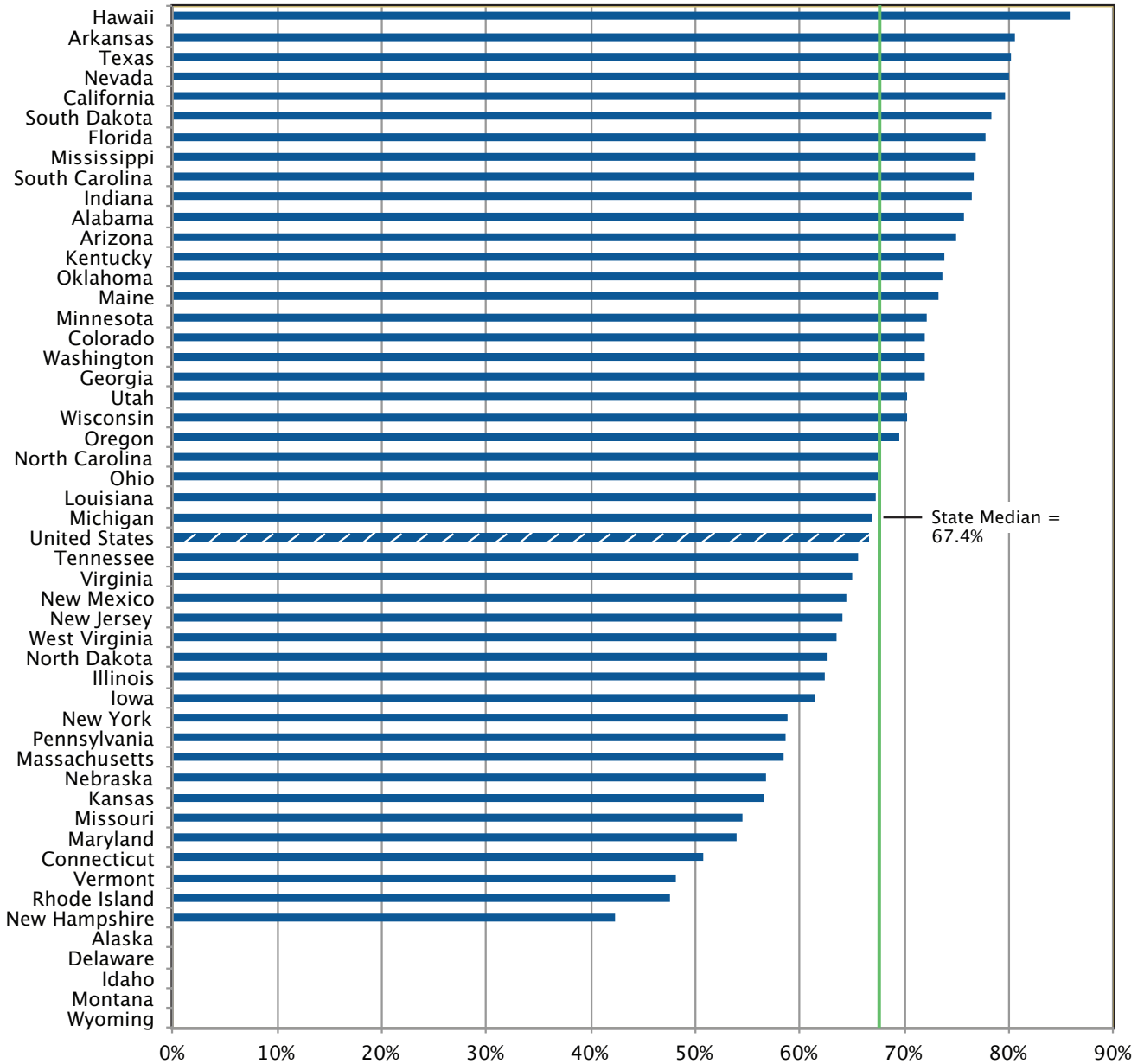
	Active Physicians Who Completed GME In-State	Active Physicians Who Completed GME In-State and are Active In-State		
		Number	Percent	Rank
United States	759,058	362,763	47.8%	N.R.
Alabama	7,978	3,898	48.9%	18
Alaska	94	67	71.3%	1
Arizona	7,568	3,708	49.0%	16
Arkansas	4,383	2,525	57.6%	7
California	76,259	52,685	69.1%	2
Colorado	9,519	4,421	46.4%	22
Connecticut	13,265	4,662	35.1%	45
Delaware	1,519	461	30.3%	49
District of Columbia	16,006	2,461	15.4%	N.R.
Florida	21,394	12,698	59.4%	4
Georgia	13,881	6,796	49.0%	17
Hawaii	2,998	1,149	38.3%	42
Idaho	317	180	56.8%	8
Illinois	41,480	20,505	49.4%	15
Indiana	9,722	5,489	56.5%	9
Iowa	6,476	2,371	36.6%	44
Kansas	5,643	2,178	38.6%	40
Kentucky	7,527	3,473	46.1%	24
Louisiana	12,422	5,855	47.1%	20
Maine	1,802	927	51.4%	12
Maryland	19,277	7,392	38.3%	41
Massachusetts	34,345	15,313	44.6%	28
Michigan	32,760	14,927	45.6%	26
Minnesota	17,516	7,735	44.2%	31
Mississippi	3,344	1,678	50.2%	13
Missouri	17,738	6,636	37.4%	43
Montana	81	51	63.0%	3
Nebraska	4,019	1,727	43.0%	34
Nevada	916	529	57.8%	6
New Hampshire	1,805	510	28.3%	50
New Jersey	18,132	8,462	46.7%	21
New Mexico	3,056	1,201	39.3%	39
New York	110,084	50,544	45.9%	25
North Carolina	17,663	7,454	42.2%	36
North Dakota	837	369	44.1%	32
Ohio	37,686	16,747	44.4%	30
Oklahoma	5,637	2,906	51.6%	11
Oregon	5,276	2,794	53.0%	10
Pennsylvania	50,430	21,437	42.5%	35
Rhode Island	4,229	1,323	31.3%	46
South Carolina	7,343	3,393	46.2%	23
South Dakota	709	316	44.6%	29
Tennessee	13,444	6,034	44.9%	27
Texas	44,704	25,863	57.9%	5
Utah	4,442	1,921	43.2%	33
Vermont	1,631	498	30.5%	48
Virginia	14,310	5,640	39.4%	38
Washington	11,200	5,549	49.5%	14
West Virginia	3,979	1,598	40.2%	37
Wisconsin	11,865	5,600	47.2%	19
Wyoming	347	107	30.8%	47

Source: AMA Physician Masterfile (December 31, 2010)

N.R. = Not Ranked



Figure 20. Physicians Retained from Undergraduate Medical Education (UME) and GME Combined



Source: AMA Physician Masterfile (December 31, 2010).

**Table 20. Physicians Retained from Undergraduate Medical Education (UME) and GME Combined**

	Active Physicians Who Graduated from Medical or Osteopathic School In State <i>and</i> Completed GME In State	Active Physicians Who Graduated from Medical or Osteopathic School In State, Completed GME In State, and are Active In State		
		Number	Percent	Rank
United States	232,309	154,614	66.6%	N.R.
Alabama	2,942	2,225	75.6%	11
Alaska	---	---	---	---
Arizona	1,222	916	75.0%	12
Arkansas	2,268	1,828	80.6%	2
California	23,989	19,084	79.6%	5
Colorado	1,658	1,192	71.9%	17
Connecticut	1,475	747	50.6%	42
Delaware	---	---	---	---
District of Columbia	3,573	691	19.3%	N.R.
Florida	4,991	3,883	77.8%	7
Georgia	4,179	3,002	71.8%	19
Hawaii	577	495	85.8%	1
Idaho	---	---	---	---
Illinois	15,134	9,447	62.4%	33
Indiana	4,721	3,610	76.5%	10
Iowa	2,352	1,445	61.4%	34
Kansas	2,342	1,325	56.6%	39
Kentucky	2,954	2,179	73.8%	13
Louisiana	6,001	4,031	67.2%	25
Maine	176	129	73.3%	15
Maryland	3,589	1,932	53.8%	41
Massachusetts	7,863	4,588	58.3%	37
Michigan	10,193	6,811	66.8%	26
Minnesota	5,127	3,692	72.0%	16
Mississippi	1,568	1,204	76.8%	8
Missouri	5,663	3,088	54.5%	40
Montana	---	---	---	---
Nebraska	2,238	1,269	56.7%	38
Nevada	180	144	80.0%	4
New Hampshire	163	69	42.3%	45
New Jersey	2,927	1,876	64.1%	30
New Mexico	596	384	64.4%	29
New York	33,451	19,639	58.7%	35
North Carolina	4,507	3,037	67.4%	23
North Dakota	310	194	62.6%	32
Ohio	12,535	8,439	67.3%	24
Oklahoma	2,698	1,986	73.6%	14
Oregon	1,066	740	69.4%	22
Pennsylvania	18,581	10,873	58.5%	36
Rhode Island	284	135	47.5%	44
South Carolina	2,389	1,829	76.6%	9
South Dakota	222	174	78.4%	6
Tennessee	4,741	3,105	65.5%	27
Texas	18,612	14,932	80.2%	3
Utah	926	650	70.2%	20
Vermont	333	160	48.0%	43
Virginia	3,731	2,422	64.9%	28
Washington	1,938	1,393	71.9%	18
West Virginia	1,725	1,095	63.5%	31
Wisconsin	3,599	2,525	70.2%	21
Wyoming	---	---	---	---

Source: AMA Physician Masterfile (December 31, 2010)

N.R. = Not Ranked

--- Indicates that the data are not applicable. Some states do not have a medical or osteopathic school.

## Summary

### State Medians Physicians Workforce Indicators 2008 and 2010

- Between 2008 and 2010 there has been a small increase in the median number of active physicians and active patient care physicians per 100,000 population but no appreciable increase in the median number of active primary care physicians. The medians for the percent of physicians who are female and the percent over age 60 were higher in 2010. While the median number of students enrolled in undergraduate medical education has increased relative to the population, median number of residents in GME has remained flat. The median retention from undergraduate medical education has increased by two percentage points while retention from graduate medical education has increased only slightly (45.7 percent vs. 45.4 percent).

**Table 21. State Medians for Key Physician Workforce Measures, 2008 and 2010**

	Median <sup>1</sup> 2008	Median 2010
<b>Physician Supply</b>		
Active Physicians per 100,000 Population	239.6	244.2
Total Active Patient Care Physicians per 100,000 Population	213.5	215.1
Active Primary Care Physicians per 100,000 Population	89.9	91.0
Active Patient Care Primary Care Physicians per 100,000 Population	80.1	80.4
Percent of Active Physicians who are Female	28.0%	29.3%
Percent of Active Physicians who are International Medical Graduates	17.6%	17.8%
Percentage of Active Physicians who are Age 60 or Older	23.4%	25.2%
<b>Undergraduate Medical Education (UME)</b>		
Students Enrolled in Medical or Osteopathic School per 100,000 Population	25.4	27.9
Students Enrolled in Public Medical or Osteopathic Schools per 100,000 Population	15.5	19.7
Percent of Medical School Matriculants from In-State	64.4%	67.1%
<b>Graduate Medical Education</b>		
Total Residents/Fellows in ACGME Programs per 100,000 Population	26.8	26.2
Total Residents/Fellows in Primary Care ACGME Programs per 100,000 Population	10.5	10.2
Percentage of International Medical Graduates in ACGME Programs	22.9%	23.1%
Ratio of Residents and Fellows (GME) to Medical and Osteopathic Students (UME)	1.11	1.09
<b>Retention</b>		
Percent of Physicians Retained in State from UME	37.2%	39.2%
Percent of Physicians Retained in State from UME (Public )	42.4%	45.5%
Percent of Physicians Retained in State from GME	45.4%	45.7%
Percent of Physicians Retained in State from UME and GME Combined	66.5%	67.4%

<sup>1</sup>2009 State Physician Workforce Data Book, AAMC, <https://www.aamc.org/download/47340/data/statedata2009.pdf>



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