



Overview of the Physician Workforce 2017

Health Care Workforce Analysis Program | Office of Rural Health and Primary Care

October 2017

Table of Contents

Topic	Page
About this data	3
Section 1: Reference Maps	5
Section 2: Introduction to the Minnesota Physician Workforce	8
Where are physicians practicing? (State of practice)	9
Where are physicians practicing? (Region of practice)	10
Population for every one physician, by region, all physicians	11
Population for every one physician, by region, primary care	12
Where are physicians practicing? (RUCA of practice)	13
Population for every one physician, by RUCA, all physicians	14
Population for every one physician, by RUCA, primary care	15
Physicians by medical specialty	16
Physicians by medical specialty and region	17
Physicians by medical specialty and RUCA	18
Physicians by medical subspecialty	19
Section 3: Education of the Minnesota Physician Workforce	20
Location of physicians' medical school	21
Number of Minnesota residency positions, by year and specialty	22
Number of family medicine residency positions that are filled	24
Physicians' continuing education and training	25

Topic	Page
Section 4: Demographics of the Minnesota Physician Workforce	26
Physicians' gender	27
Physicians' age	28
Physicians' age by region	29
Physicians' age by RUCA	30
Physicians' race by region	31
Internationally-trained physicians by region	32
Languages spoken in clinical practice	33
Section 5: Minnesota Physicians' Work and Employment	34
Work status of actively licensed physicians	35
Work status by race	36
Work status by age group	37
Work status by region and RUCA	38
Physicians in private practice	39
Number of hours worked per week	40
Number of hours worked per week, by gender	41
Share of time spent providing patient care	42
Number of years physicians intend to continue practicing	43
Number of years physicians intend to continue practicing, by region	44

Topic	Page
Number of years physicians intend to continue practicing, by RUCA	45
Physicians' reasons for working five more years or less	46
Physicians' work satisfaction	47
Physicians' work settings	48
Physicians' primary work settings	49
Do physicians fill "gaps" in care?	50
Do physicians fill "gaps" in care?—Rural physicians only	51
Section 6: New and Emerging Models of Care	52
Share of physicians who use electronic health records	53
Share of physicians who use telemedicine equipment	54
Share of physicians who provide clinical training	55
Culturally competent care	56
Multi disciplinary care	57

The data in this report come from two sources:

- The **Minnesota Board of Medical Practices (BMP)** provides data on the entire population of physicians who have active licenses in the state of Minnesota. The BMP maintains this database primarily for administrative purposes. BMP provides the data to the Minnesota Department of Health, Office of Rural Health and Primary Care (MDH-ORHPC). This report uses data current as of January, 2017. At that time, there were a total of **23,032** physicians with active Minnesota licenses, approximately 74 percent of whom indicated that their primary business address was in Minnesota. (Note that the analyses exclude physicians whose licenses were active/restricted or active/conditional.)
- The **2016 Minnesota Department of Health-Office of Rural Health and Primary Care (MDH-ORHPC) Physician Workforce Survey** collects additional demographic and workforce data from physicians. MDH-ORHPC administered the survey to all physicians who renewed their Minnesota license in the calendar year of 2016. The response rate was 92.7 percent.

About this data, continued

All the charts and tables in this report rely on the BMP and MDH-ORHPC survey datasets. However, different analyses rely on slightly different subsets of licensees, depending on the purpose of the analysis. Therefore, different charts have different sample sizes. Source notes at the bottom of each page provide details. Broadly, however, there are six possible analytical groups:

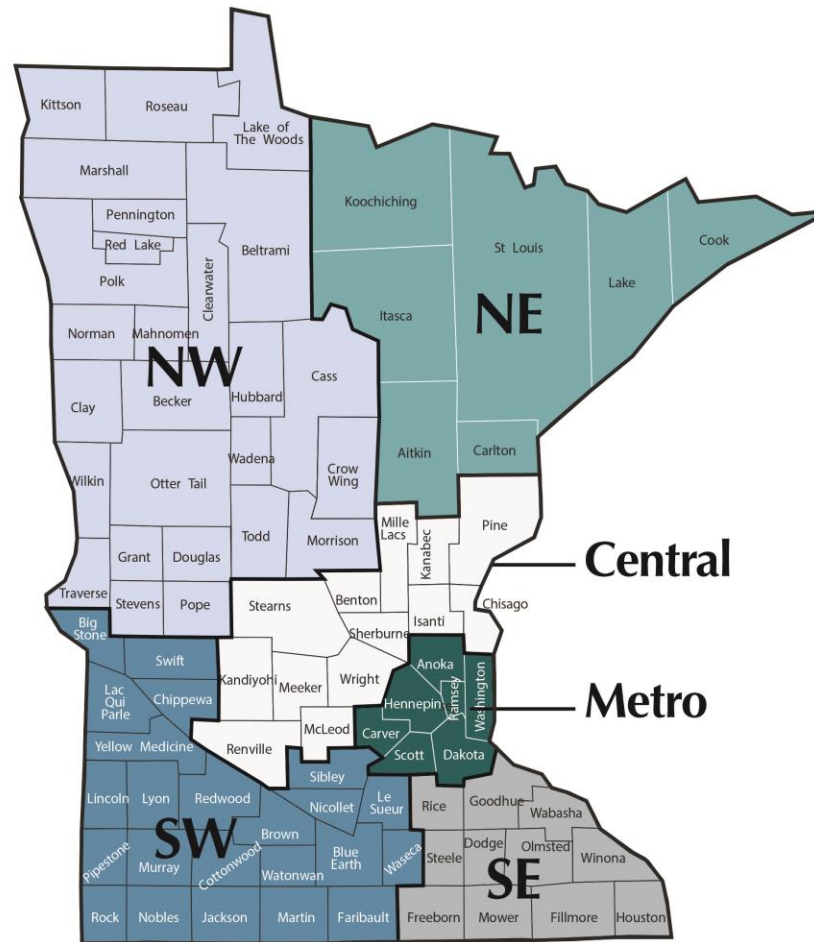
Group	N
All physicians with active Minnesota licenses*	23,032
All physicians with active Minnesota licenses <u>AND</u> whose primary business address was in Minnesota*	16,947
All physicians with active Minnesota licenses <u>AND</u> who responded to the MDH-ORHPC physician survey**	19,949
All physicians with active Minnesota licenses <u>AND</u> who responded to the MDH-ORHPC physician survey <u>AND</u> who indicated that they were employed as a physician.**	18,161
All physicians with active Minnesota licenses <u>AND</u> who responded to the MDH-ORHPC physician survey <u>AND</u> whose primary business address was in Minnesota.**	15,004
All physicians with active Minnesota licenses <u>AND</u> who responded to the MDH-ORHPC physician survey <u>AND</u> whose primary business address is in Minnesota, <u>AND</u> who indicated that they were employed as a physician.**	14,032

*Source : Board of Medical Practice January 2017.

**Source : Board of Medical Practice January 2-17 and responses to the 2016 MDH-ORHPC Physician Workforce Survey.

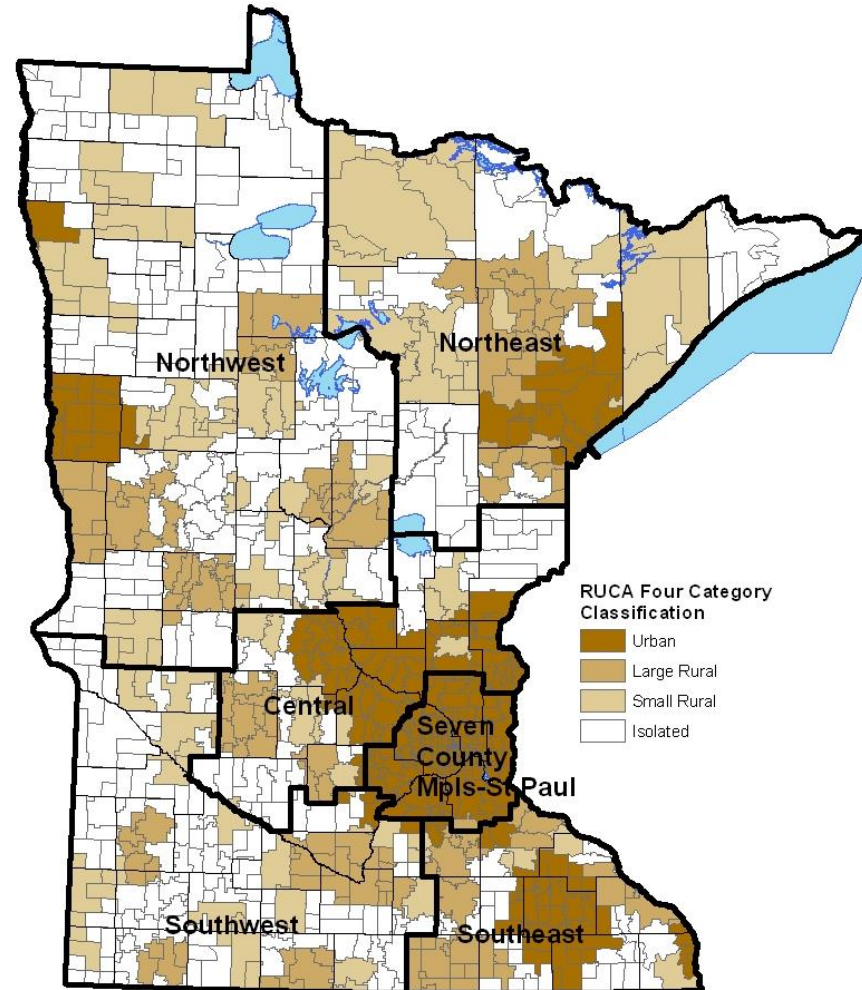
Section 1: Reference Maps

Map 1: Minnesota planning regions



These regions are defined by the Minnesota Department of Employment and Economic Development (DEED). For more information on these economic planning areas, visit the DEED website at: <https://apps.deed.state.mn.us/assets/lmi/areamap/plan.shtml>

Map 2: Minnesota rural-urban commuting areas (RUCAs)



For more information about how the Rural-Urban Commuting areas are defined, visit the MDH website at: <http://www.health.state.mn.us/divs/orhpc/workforce/method.html#ruca>.

Section 2: Introduction to the Minnesota Physician Workforce

Where are physicians practicing?

Minnesota's licensed physicians by state of practice

Location of Primary Business Address	Number of Physicians	Percent of Physicians
Minnesota	16,948	73.6%
Wisconsin	692	3.0%
North Dakota	570	2.5%
South Dakota	427	1.9%
Iowa	151	0.7%
Other state	2,475	10.7%
Canada	74	0.3%
Other country	75	0.3%
No address reported	1,620	7.0%
Total	23,032	100.0%

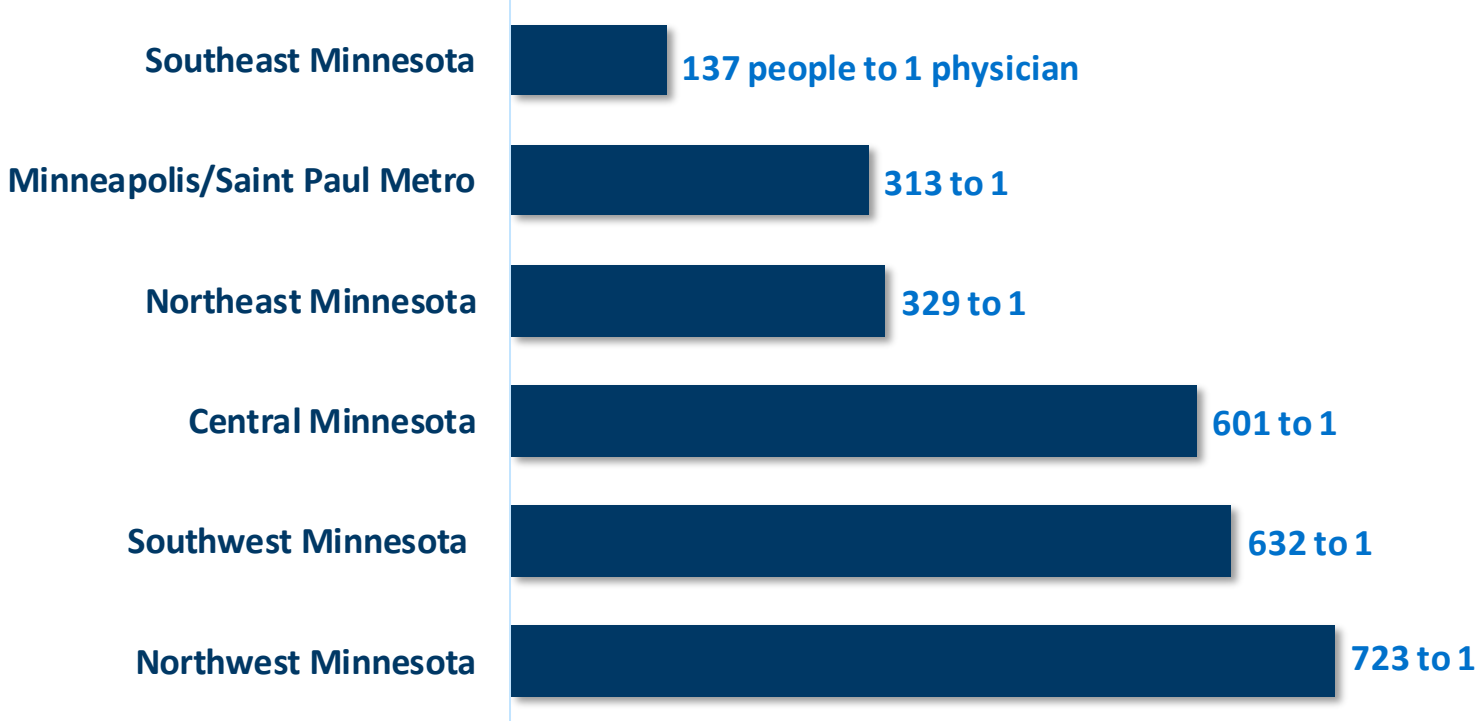
Source: Minnesota Board of Medical Practice, January 2017. Physicians are statutorily mandated to supply their primary practice address to the Board unless they are not working as a physician. The most common "other" states reported were Florida (327), California (259), Arizona (257) and Texas (213).

Where are physicians practicing?

Minnesota's licensed physicians, by Minnesota planning region

Region	Number of Physicians	Percent of Physicians
Central Minnesota	1,168	6.9%
Northeast Minnesota	989	5.8%
Northwest Minnesota	779	4.6%
Minneapolis/St. Paul Metro	9,705	57.3%
Southeast Minnesota	3,686	21.8%
Southwest Minnesota	620	3.7%
Total	16,947	100.0%

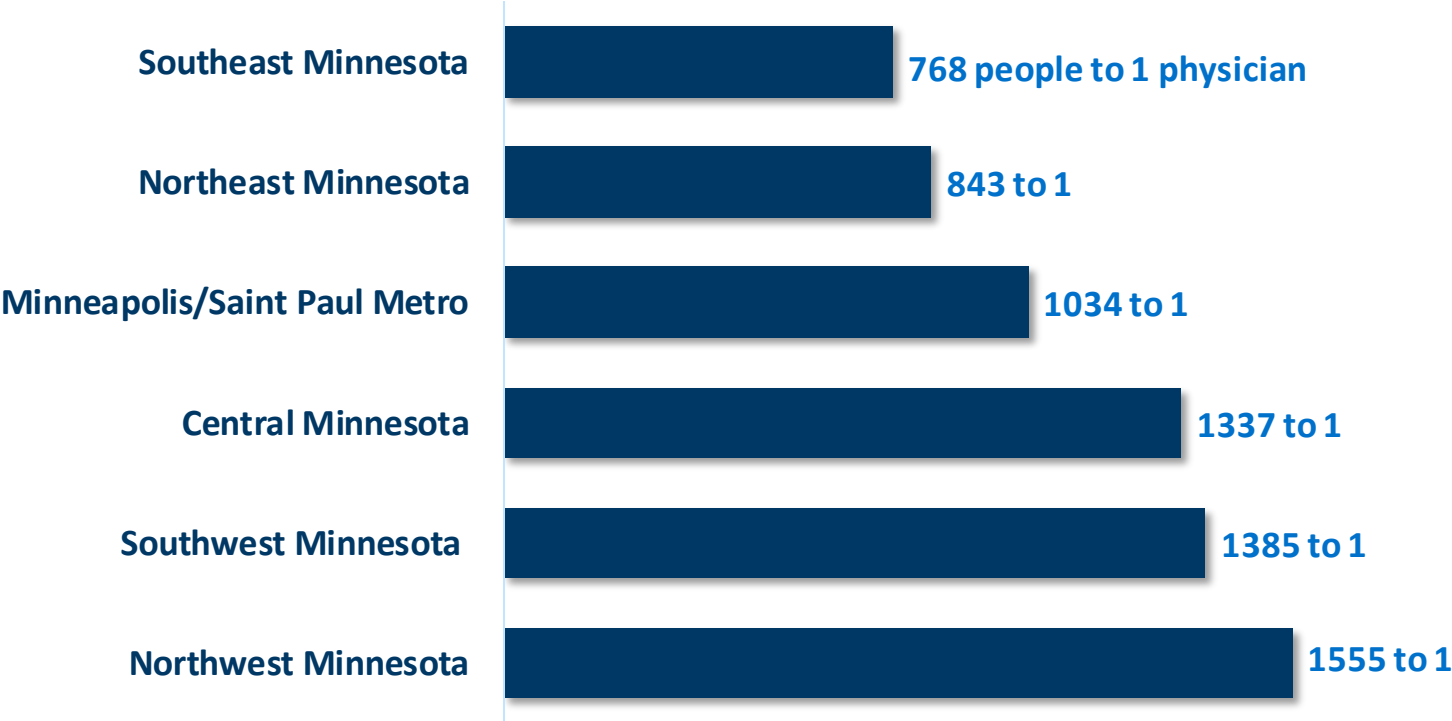
Population for every one physician by Minnesota planning region (all physicians included)



As one indicator of access to care, the information in this chart is based on **all licensed physicians**. Note that primary care physicians comprise only about 30 percent of the physicians above. Other specialists, sub-specialists, facility-based physicians, and physicians without board certification are also included. The lowest population-to-physician ratio is in Southeast Minnesota (due primarily to the large Mayo-affiliated workforce) and the Twin Cities and Northeast regions. The areas of Central, Southwest, and Northwest Minnesota all have relatively high population-to-physician ratios, suggesting that residents there may encounter more difficulty accessing care from physicians. On the other hand, Minnesota residents, particularly those in the Sioux Falls, Fargo-Moorhead and East Grand Forks regions, often cross state lines to access care.

Sources: Minnesota Board of Medical Practice, January 2017. Includes all physicians who have an active Minnesota license and a primary business address in Minnesota (n=16,947). Population data upon which these calculations are based are from the Minnesota State Demographic Center/Metropolitan Council, release date July 2017 (for the 2016 population).

Population for every one physician by Minnesota planning region (primary care physicians only)



As another indicator of access to care, the information in this chart is based on only **primary care physicians**. Primary care physicians are those with a single, general board certification in family medicine; internal medicine; or pediatrics (based on the definition of primary care physician in Minnesota Statutes section 137.38).

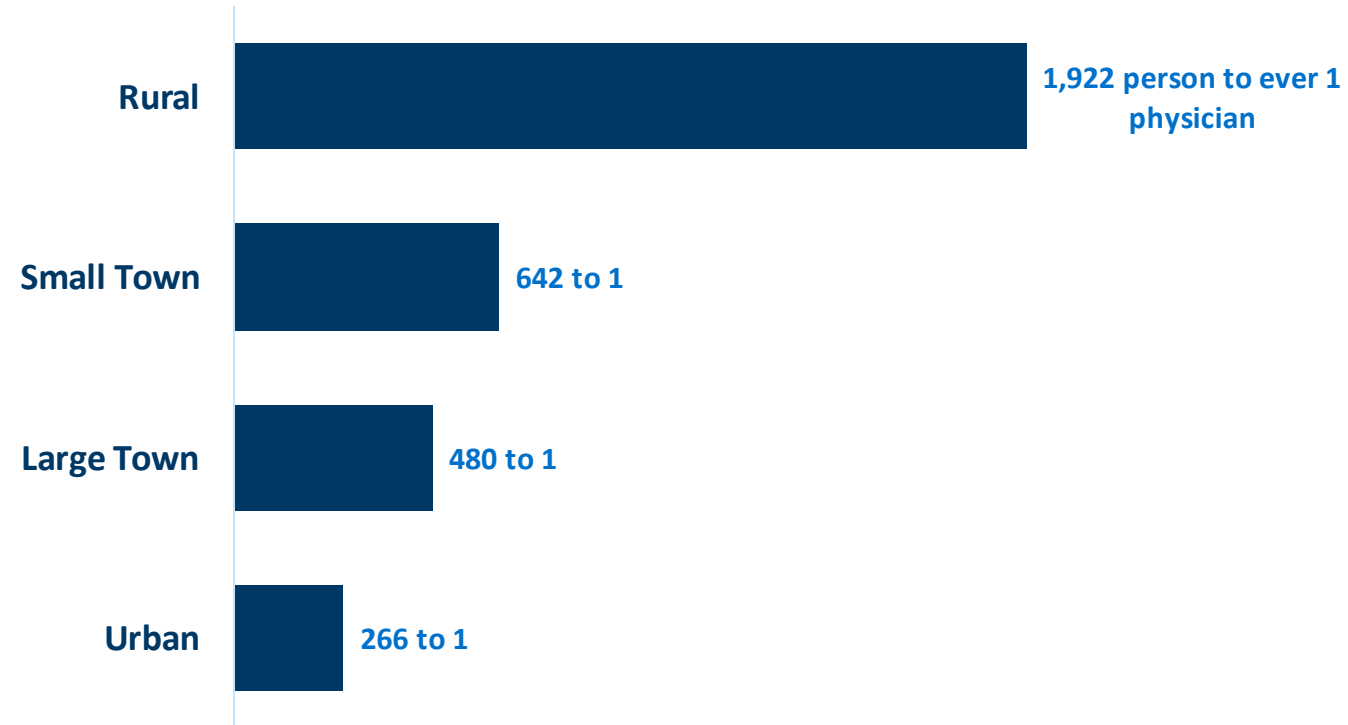
Sources: Minnesota Board of Medical Practice, January 2017. Includes all physicians who have an active Minnesota license and a primary business address in Minnesota (n=5,265 primary care physicians). Population data upon which these calculations are based are from the Minnesota State Demographic Center/Metropolitan Council, release date July 2017 (for the 2016 population).

Where are physicians practicing?

Minnesota's licensed physicians by MN Rural-Urban Commuting Area (RUCA)

Region	Number of Physicians	Percent of Physicians
Urban	14,847	87.6%
Large Rural	1,267	7.5%
Small Rural	607	3.6%
Isolated	226	1.3%
Total	16,947	100.0%

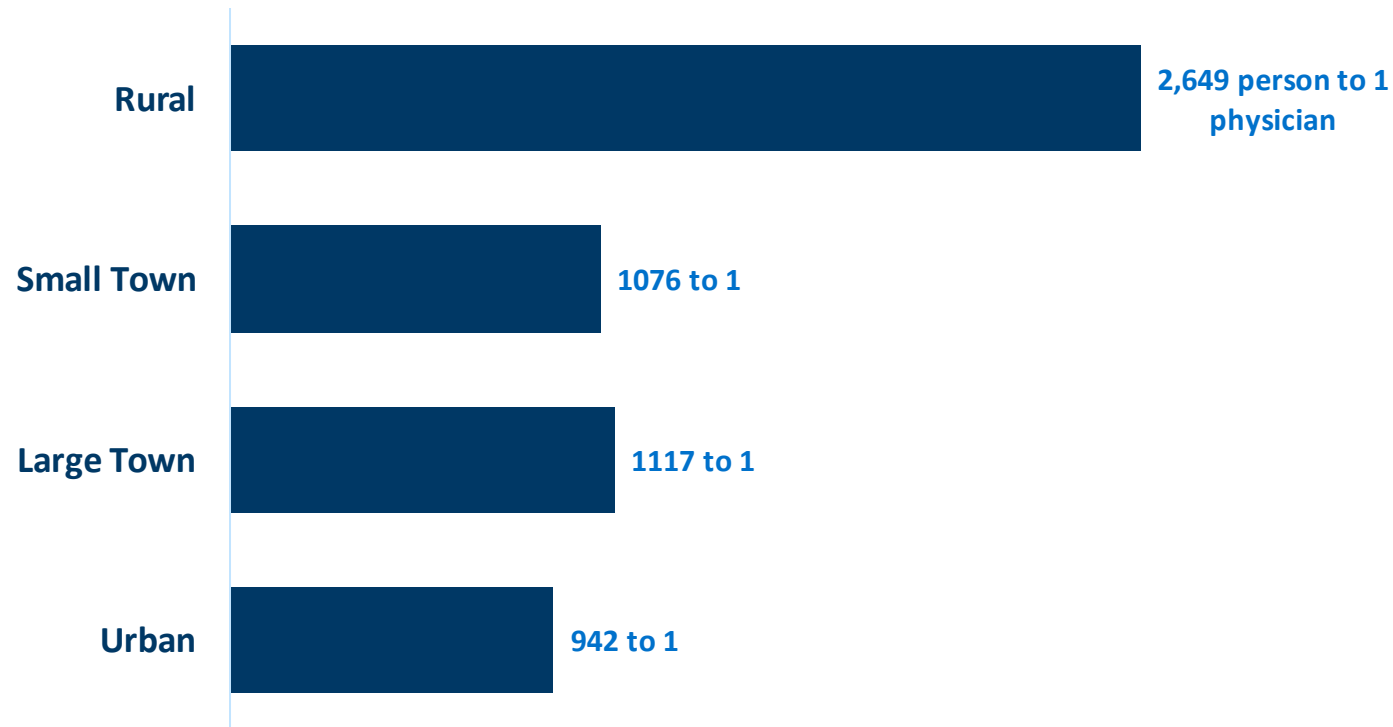
Population for every one physician by Rural Urban Commuting Area (all physicians included)



As one indicator of access to care, the information in this chart is based on **all physicians**. Only about 30 percent of these are primary care physicians. Also included are other specialists, sub-specialists, facility-based physicians, and physicians without board certification.

Sources: Minnesota Board of Medical Practice, January 2017. Includes all physicians who have an active Minnesota license and a primary business address in Minnesota (n=16,947). Population data upon which these calculations are based are from the Minnesota State Demographic Center/Metropolitan Council, release date July 2017 (for the 2016 population).

Population for every one physician by Rural Urban Commuting Area (primary care physicians only)



As another indicator of access to care, this chart includes only **primary care physicians**. Primary care physicians are those with a single, general board certification in family medicine; internal medicine; or pediatrics (based on the definition of primary care physician in Minnesota Statutes section 137.38).

Sources: Minnesota Board of Medical Practice, January 2017. Includes all physicians who have an active Minnesota license and a primary business address in Minnesota (n=16,947). Population data upon which these calculations are based are from the Minnesota State Demographic Center/Metropolitan Council, release date July, 2017 (for the 2016 population).

Physicians by medical specialty

Medical Specialty (specialty board certification)	Number of all Licensed Physicians	Percent of all Licensed Physicians	Percent of all <u>Employed</u> Licensed Physicians
Primary Care Specialties	6,432	27.9%	29.7%
General Family Medicine	3,174	13.8%	15.2%
General Internal Medicine	2,315	10.1%	10.2%
General Pediatrics	943	4.1%	4.3%
Other Specialties	13,892	72.1%	70.3%
General OB/GYN	452	2.0%	1.9%
General Surgery	556	2.4%	2.4%
Other Surgery	1,826	7.9%	8.1%
General Psychiatry	540	2.3%	2.5%
General Facility-Based	2,708	11.8%	11.8%
General Other	823	3.6%	3.6%
Subspecialties and Mixed Specialties (see page 18 for more information)	5,800	25.2%	26.9%
No Specialty Board Certification	3,895	16.9%	13.0%
Total	23,032	100.0%	100.0%

Source: Number and percent of all licensed physicians are from the Minnesota Board of Medical Practice, January 2017. Includes all physicians with active Minnesota licenses. Percent of all employed licensed physicians are from the MDH-ORHPC Physician Workforce Survey, 2016. Includes all physicians with active Minnesota licenses who report being employed as a physician on the MDH-ORHPC survey (N=18,161). All board certifications listed above are from either the American Board of Medical Specialties or the American Osteopathic Association. Primary care specialties are based on the definition in Minnesota Statutes section 137.38. Per Minn. Stat. 137.38, primary care physicians include family medicine, general internists and general pediatricians.

Physicians by medical specialty and Minnesota region

Region	General Family Medicine	General Internal Medicine	General Pediatrics	General OB/GYN	General Surgery	Other Surgery	General Psychiatry	General Facility-based	Other	Subspecialties and Mixed Specialties	No Certification	Total
Central (N=1,168 physicians)	31.7%	8.7%	4.5%	2.7%	3.0%	6.8%	2.3%	9.8%	2.6%	15.3%	12.6%	100.0%
Northeast (989)	25.8%	10.1%	3.1%	2.0%	2.4%	9.2%	1.0%	12.7%	2.5%	19.4%	11.6%	100.0%
Northwest (779)	32.3%	10.8%	3.3%	1.9%	4.4%	6.8%	3.6%	9.6%	1.7%	10.4%	15.1%	100.0%
Minneapolis / St. Paul Metro (9,705)	13.0%	11.2%	6.1%	2.3%	1.6%	7.9%	2.7%	11.4%	3.9%	26.4%	13.6%	100.0%
Southeast (3,686)	6.4%	12.2%	2.3%	0.7%	2.1%	5.0%	1.3%	9.8%	3.4%	30.1%	26.7%	100.0%
Southwest (620)	32.9%	8.5%	4.2%	2.6%	3.7%	6.1%	2.7%	8.1%	1.6%	12.1%	17.4%	100.0%
Statewide (16,947 physicians)	15.2%	11.1%	4.8%	1.9%	2.0%	7.2%	2.3%	10.8%	3.4%	24.8%	16.5%	100.0%

Physicians by medical specialty and RUCA

Region	General Family Medicine	General Internal Medicine	General Pediatrics	General OB/GYN	General Surgery	Other Surgery	General Psychiatry	General Facility-based	Other	Subspecialties and Mixed Specialties	No Certification	Total
Urban (N=14,847)	11.9%	11.3%	5.0%	1.9%	1.7%	7.3%	2.3%	11.3%	3.7%	27.0%	16.6%	100.0%
Large Rural (1,267)	28.0%	28.0%	4.5%	3.0%	4.2%	8.3%	3.0%	9.2%	2.1%	11.7%	15.5%	100.0%
Small Rural (607)	50.4%	7.9%	1.3%	2.1%	5.8%	4.4%	1.3%	6.6%	0.5%	4.9%	14.7%	100.0%
Isolated (226)	66.4%	5.8%	0.4%	0.4%	2.7%	0.9%	0.4%	0.9%	0.4%	3.5%	18.1%	100.0%
Statewide (16,947)	15.2%	11.1%	4.8%	1.9%	2.0%	7.2%	2.3%	10.8%	3.4%	24.8%	16.5%	100.0%

Physicians by medical subspecialties

Medical Subspecialty	Number of all Licensed Physicians	Percent of all Licensed Physicians
No Certification	3,895	16.9%
Family Medicine Subspecialty (including adolescent, geriatric, pain, and sleep medicine, among others)	220	1.0%
Internal Medicine Subspecialty (including cardiology, critical care, endocrinology, and gastroenterology, among others)	2,550	11.1%
Pediatric Subspecialty (including pediatric cardiology, pediatric endocrinology, pediatric nephrology, and pediatric emergency medicine, among others)	431	1.9%
OB/GYN Subspecialty (including female pelvic medicine and reconstructive surgery, maternal and fetal medicine, and gynecologic oncology, among others)	76	0.3%
Surgical Subspecialty (including pediatric surgery, surgery of the hand, complex general surgical oncology, and surgical critical care, among others)	358	1.6%
Psychiatric Subspecialty (including addiction psychiatry, child and adolescent psychiatry, geriatric psychiatry, and pain medicine, among others)	301	1.3%
Facility-Based Subspecialties (including neuroradiology, pediatric urology, pediatric anesthesiology, hematopathology, and cytopathology, among others)	767	3.3%
Other Subspecialties (including neurology, physical medicine and rehabilitation, sports medicine, pain medicine, and dermatology, among others)	335	1.5%
Mixed Specialties (physicians who have mixed general or sub-specialties)	729	3.2%
General Certifications (Physicians without subspecialties)	13,370	58.0%
Total	23,032	100.0%

Section 3: Education of the Minnesota Physician Workforce

Location of physicians' medical school

Location of Medical School	Number of Physicians	Percent of Physicians
Minnesota	6,747	29.3%
Wisconsin	931	4.0%
North Dakota	652	2.8%
South Dakota	333	1.4%
Iowa	1,051	4.6%
Other state	8,975	39.0%
Canada	396	1.7%
Other country—outside U.S. and Canada	3,864	16.8%
Missing data—no medical school information provided to the Board of Medical Practice	83	0.4%
Total	23,032	100.0%

Source: Minnesota Board of Medical Practice, January 2017. Includes all physicians with active Minnesota licenses. Note that these data refer to the location where the physician earned his or her *medical degree*, not where s/he completed residency training. The most commonly reported states (other than border states) were Illinois (1,215), Missouri (738), New York (659), Nebraska (624), Michigan (527), Pennsylvania (499), and Ohio (488).

Number of Minnesota residency positions, by year and specialty (page 1)

Primary Care Residencies	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Family Medicine	90	96	80	71	72	71	67	68	73	71	77	76	77	81	85
Internal Medicine	108	109	108	105	101	105	104	104	107	106	110	111	111	113	118
Pediatrics	32	33	33	33	33	35	35	35	37	34	34	35	35	37*	38**
Internal Medicine / Pediatrics (dual specialty)	10	10	12	12	12	12	9	10	10	10	10	10	10	10	10**
Primary Care Total	240	248	233	221	218	223	215	217	227	221	231	232	233	241	251
Non-Primary Care Residencies	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Anesthesiology (PY-1)	12	12	12	13	12	12	12	12	12	13	13	13	17	16	19
Anesthesiology (PY-2)	11	11	11	11	12	12	10	10	12	11	12	12	8	8	6
Anesthesiology (Physician)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Child Neurology	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2
Dermatology (PY-1)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dermatology (PY-2)	8	12	10	10	10	9	10	10	10	11	10	10	10	10	10
Dermatology (Physician)	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Emergency Medicine	26	26	26	28	28	28	28	29	29	29	29	29	30	30	30
Internal Medicine/Dermatology	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2
Internal/Emergency Medicine	-	-	-	2	2	2	2	2	2	2	2	2	2	3	2
Interventional Radiology (PY-1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Interventional Radiology (PY-2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Neurological Surgery	2	3	-	-	-	-	6	5	5	5	5	5	5	5	5
Neurology (PY-1)	-	-	-	-	11	12	12	12	12	12	12	12	12	12	12

Source: National Residency Matching Program, Main Residency Match: Match Results by State and Specialty, 2003-2017. All residencies reflect PY-1 unless otherwise specified.

* Includes two International Medical Graduate residencies funded by the MDH-ORHPC IMG program. ** Includes one International Medical Graduate residencies funded by the MDH-ORHPC IMG program.

Number of Minnesota residency positions, by year and specialty (page 2)

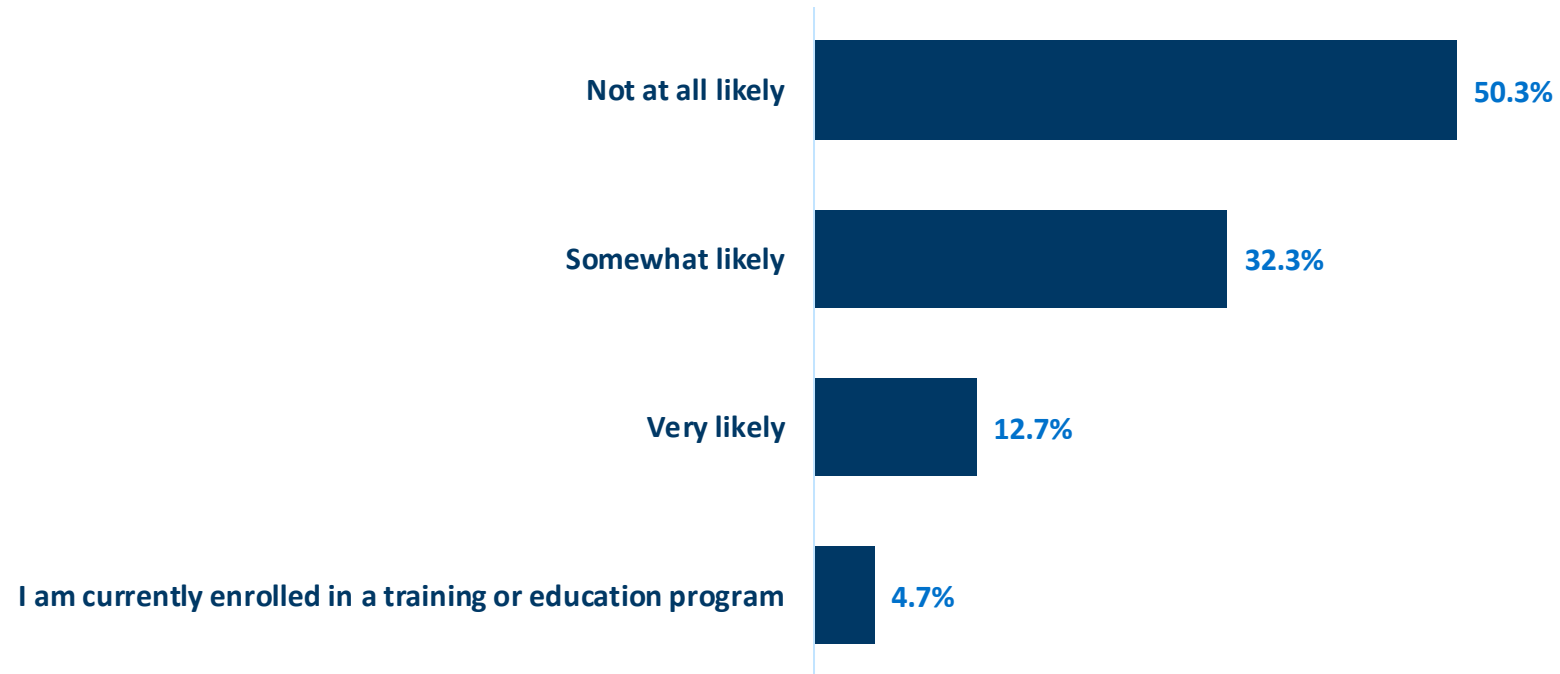
Non-Primary Care Residencies (cont.)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Neurology (PGY-2)	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3
Obstetrics and Gynecology	13	13	14	14	14	13	13	13	13	14	13	14	13	14	14
Orthopedic Surgery	15	18	18	17	18	18	20	20	20	20	20	20	20	20	20
Otolaryngology	-	-	-	8	8	8	8	8	8	8	8	8	8	9	9
Pathology	-	-	-	-	-	-	-	-	-	13	10	11	13	12	12
Pathology - Anatomic and Clinical	8	10	11	8	9	12	10	10	11	-	-	-	-	-	-
Physical Medicine & Rehabilitation (PGY-1)	3	3	3	4	3	5	4	5	5	5	7	6	6	6	7
Physical Medicine & Rehabilitation (PGY-2)	11	10	10	7	8	8	7	6	7	7	6	6	6	6	6
Plastic Surgery (Integrated)	-	-	-	-	-	-	-	-	-	-	1	5	5	5	5
Psychiatry	19	21	19	19	16	18	19	22	22	21	23	24	24	24	23
Psychiatry/Family Practice	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiation Oncology (PGY-2)	4	4	3	3	4	4	4	4	5	5	4	4	5	5	4
Radiology-Diagnostic (PGY-1)	10	10	8	9	8	9	9	10	10	9	11	10	10	10	8
Radiology-Diagnostic (PGY-2)	11	12	12	11	14	13	13	12	13	13	13	13	13	13	12
Radiology-Diagnostic (Physician)	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1
Surgery (General)	44	45	58	56	59	60	54	55	53	52	52	48	46	46	46
Transitional Year	10	11	10	11	10	12	10	14	11	11	11	12	8	8	8
Urology	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vascular Surgery	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
Non-Primary Care, Total	204	211	215	220	241	250	246	254	255	258	259	264	255	257	255

Number of family medicine residency positions that are filled, by year

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residency positions	90	96	80	71	72	71	67	68	73	71	77	76	77	81	85
Positions filled	73	69	65	54	66	64	64	65	73	70	76	70	77	80	84
Share of positions filled	81%	72%	81%	76%	92%	90%	96%	96%	100%	99%	99%	92%	100%	99%	99%

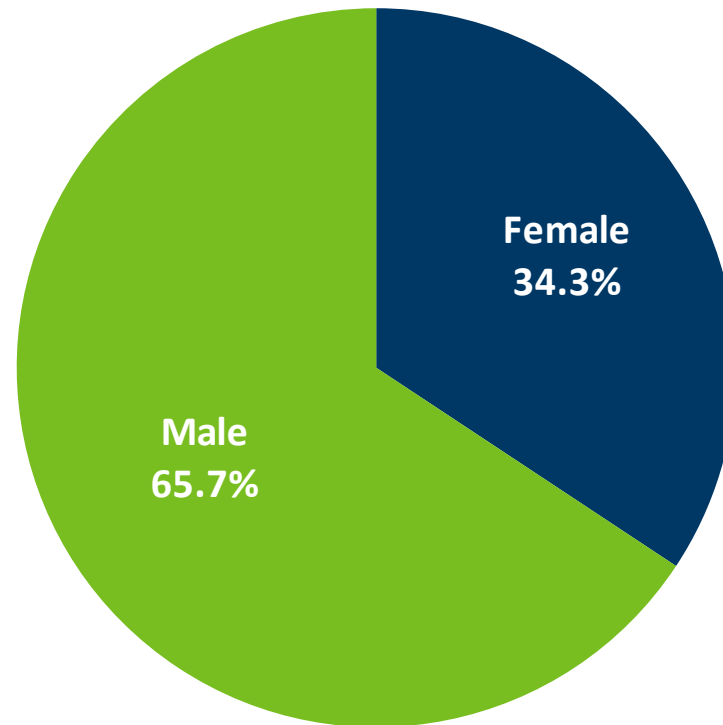
Physicians' continuing education and training

“How likely are you to pursue more education or credentials to advance in your field (not including mandatory continuing education units)?”



Section 4: Demographics of the Minnesota Physician Workforce

Physicians' gender



Physicians' age

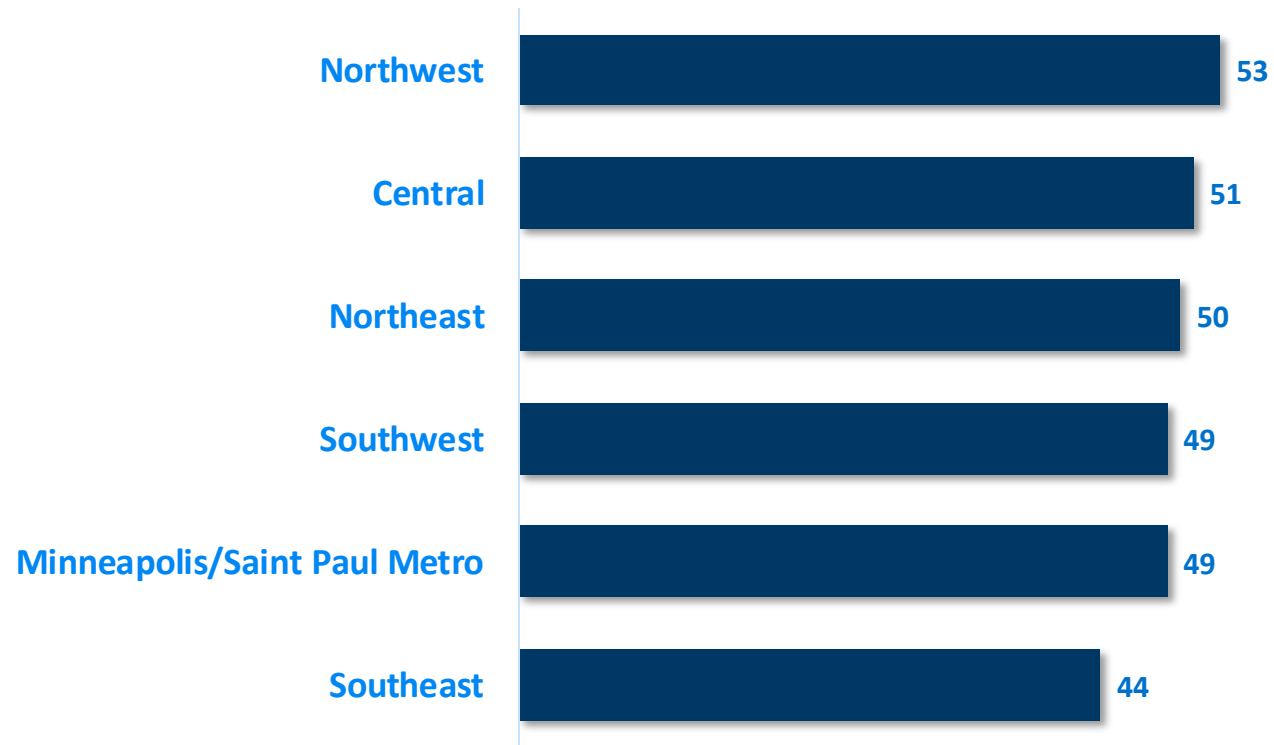
Age group	Number of Physicians	Percent of Physicians	All Occupations, U.S.*
34 and younger	2,654	11.5%	34.8%
35 to 44	5,985	26.0%	20.8%
45-54	5,340	23.2%	21.6%
55-64	5,432	23.6%	16.9%
65 and older	3,620	15.7%	5.9%
Total	23,031	100.0%	100.0%

Source: Minnesota Board of Medical Practice, January 2017. Includes all physicians with a active Minnesota licenses. The median age of Minnesota physicians is 50.

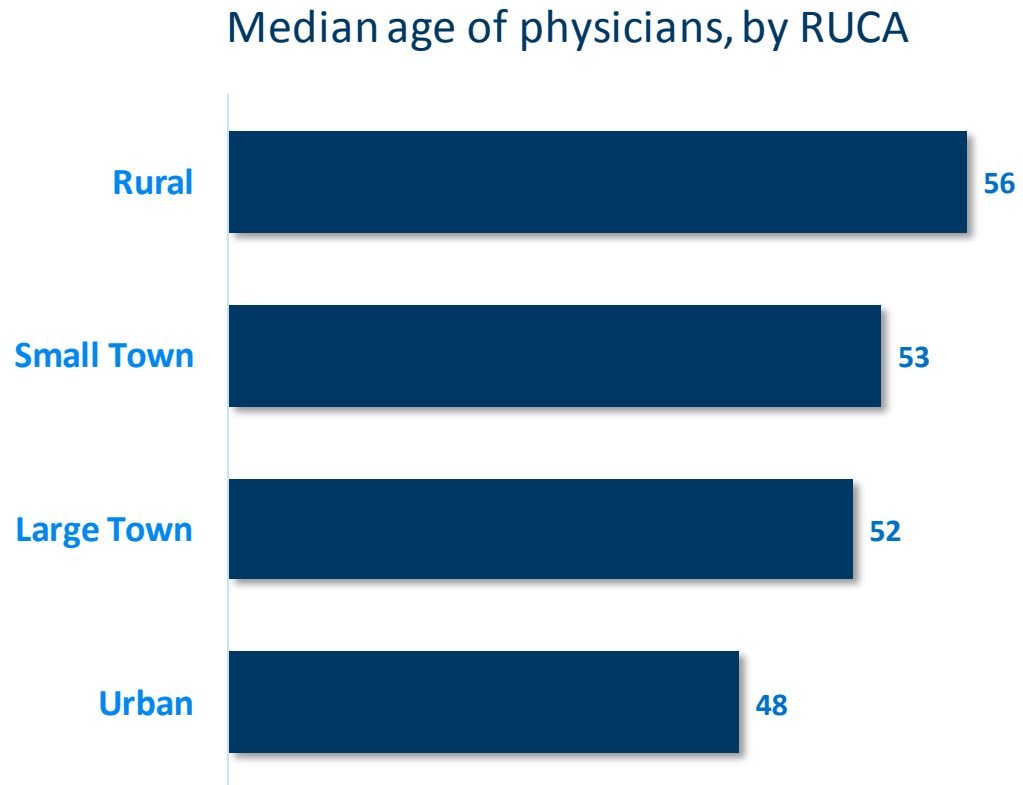
*Data on the age distribution for all occupations in the U.S. come from the Current Population Survey, Employed Persons by Detailed Occupation and Age, 2016: <https://www.bls.gov/cps/cpsaat11b.htm>

Physician's age by region

Median age of physicians, by region



Physician's age by Rural Urban Commuting Area (RUCA)



Physicians' race by Minnesota region

Race	Statewide	Central Minnesota	Northeast Minnesota	Northwest Minnesota	Minneapolis-Saint Paul Metro	Southeast Minnesota	Southwest Minnesota
American Indian	0.2%	0.3%	0.4%	0.7%	0.1%	0.2%	0.4%
Asian	12.8%	9.1%	6.3%	9.7%	12.0%	16.1%	18.1%
Black	2.4%	2.0%	1.6%	2.4%	2.3%	2.0%	4.3%
Hispanic	1.8%	1.0%	1.3%	.8%	1.6%	2.8%	1.8%
Multiple races	3.0%	2.8%	3.3%	2.5%	2.8%	3.5%	2.7%
White	77.1%	82.1%	84.5%	81.7%	78.7%	72.5%	71.0%
Other	2.6%	2.9%	2.6%	2.1%	2.4%	2.9%	1.8%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Internationally-trained physicians by planning region

Region	Number of internationally-trained physicians	Total number of licensed physicians in region	Share of internationally-trained physicians in region
Central	153	1,165	13.1%
Northeast	93	986	9.4%
Northwest	136	773	17.6%
Minneapolis/Saint Paul Metro	1,429	9,666	14.8%
Southeast	847	3,677	23.0%
Southwest	159	617	25.8%
Statewide	2,817	16,884	16.7%

Source: Minnesota Board of Medical Practice, January 2017. Includes all internationally-trained physicians who have a active Minnesota licenses and primary business addresses in Minnesota. Excludes physicians who did not provide a practice to the board or whose practice address was outside Minnesota. The most common foreign countries from which Minnesota recruits physicians are (in this order): India, Pakistan, Canada, and the Philippines.

Internationally-trained physicians, also known as International Medical Graduates (IMGs), are defined as individuals who obtained their basic medical degree outside the U.S. and Canada. IMGs in the U.S. include several distinct subsets: (1) U.S.-born citizens who obtained their medical degree overseas (most commonly in the Caribbean or Central America) (sometimes referred to as U.S.-IMGs); (2) foreign-born individuals with medical degrees who reside in the U.S. on non-immigrant visas (such as J-1, O-1 or H1-B visas) and (3) immigrants to the U.S. classified as either permanent residents ("green card" holders), U.S. citizens, asylees or refugees. For more information on the definition of an IMG, visit the Educational Commission for Foreign Medical Graduates website at <http://www.ecfmg.org/certification/definition-img.html>.

Languages spoken in clinical practice

“Other than English, what languages do you speak in your practice?”
(Check all that apply. Do not include languages spoken only through a medical interpreter.)

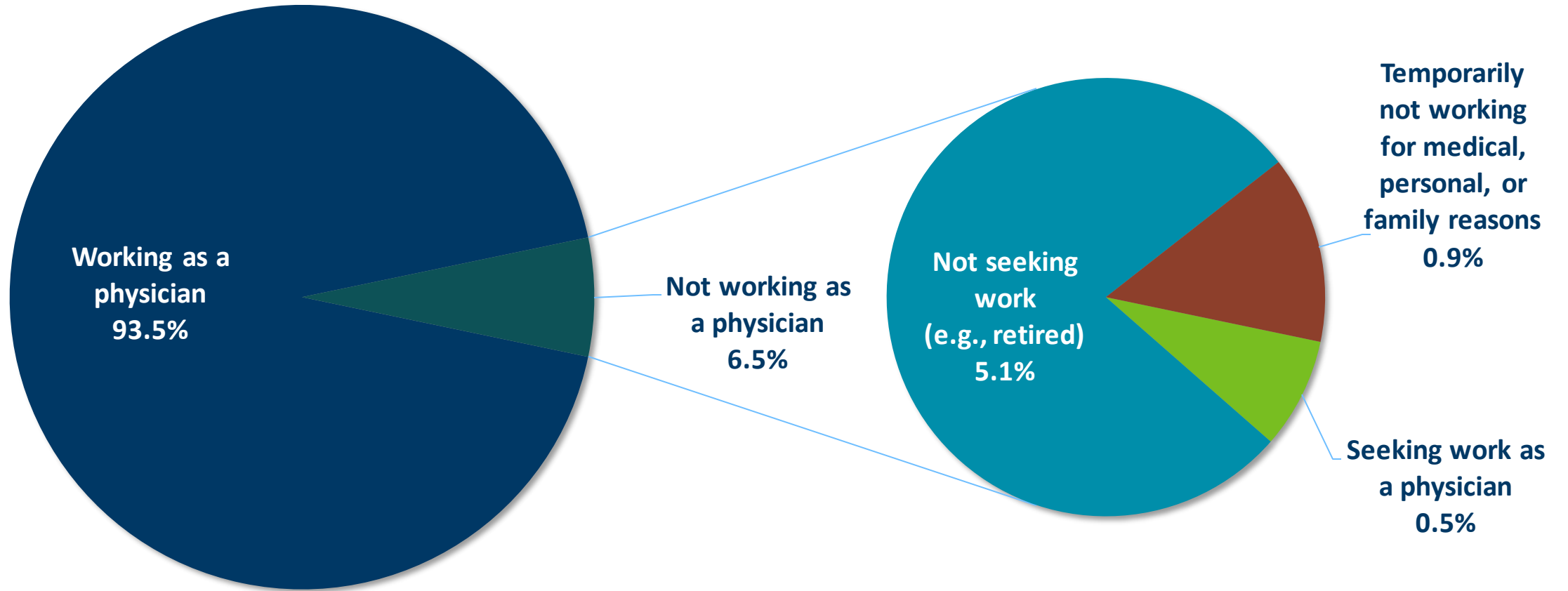
Language	Share of physicians who communicate in this language	Share of MN households with this language as the primary language spoken at home*
Spanish	8.7%	5.1%
French	2.1%	0.1%
Arabic	1.3%	0.3%
Russian	0.7%	0.3%
Vietnamese	0.3%	0.5%
Somali	0.2%	2.0%
Hmong	0.2%	2.4%
Amharic	0.2%	0.2%
Oromo	0.1%	0.2%
Lao	0.1%	0.2%
Karen	0.0%	N/A
Other	8.9%	

Source: MDH-ORHPC Physician Workforce Survey, 2016. N=19,950. Responses are from the question: Commonly spoken “Other” languages include Chinese, Farsi, Filipino, German, Greek, Hindi, Urdu, Italian and Korean.

*Data on languages spoken in Minnesota homes is from the United States Census American FactFinder tool: <https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>.

Section 5: Minnesota Physicians' Work and Employment

Work status of actively licensed physicians



Work status by race

Race	Share of active licensees who are working as a physician
American Indian	95.5%
Asian	95.4%
Black	97.8%
Hispanic	97.1%
White	91.9%
Multiple races	92.3%
Other	95.4%

Work status by age group

Age group	Share of active licensees who are working as a physician
34 and younger	98.6%
35 to 44	98.1%
45 to 54	97.4%
55 to 64	94.1%
65 and older	72.1%

Work status by region and RUCA

By region

Region	Share of active licensees who are working as a physician
Central	95.5%
Northeast	95.1%
Northwest	93.9%
Minneapolis-Saint Paul Metro	95.2%
Southeast	96.5%
Southwest	96.3%

By RUCA

RUCA	Share of active licensees who are working as a physician
Urban	95.6%
Large town	94.3%
Small town	94.3%
Rural	95.6%

Physicians in private practice

“Do you own (or co-own) an individual or group private practice?”

Private practice (Y/N)	Percentage of physicians
Yes	16.6%
No	83.4%
Total	100.0%

Number of hours worked per week

“Approximately how many hours do you work in a typical week?”
(Please include all hours worked on all activities. Your best estimate is fine.)

Hours worked per week	Percentage of physicians
10 or less	2.5%
11-20	3.0%
21-30	5.3%
31-40	24.1%
41-50	26.1%
51-60	24.6%
61 or more	14.4%
Total	100.0%

Number of hours worked per week, by gender

Hours worked per week	Percentage of male physicians	Percentage of female physicians
10 or less	2.9%	1.9%
11-20	2.5%	4.0%
21-30	3.5%	8.9%
31-40	22.1%	27.7%
41-50	27.1%	24.2%
51-60	26.7%	20.5%
61 or more	15.2%	12.8%
Total	100.0%	100.0%

Share of time spent providing patient care

“In a typical week, how much time do you spend providing direct patient or client care?”

*(Different providers define “direct patient/client care” in different ways. Some include time spent on paperwork, care coordination, or appointment scheduling, while others include only face-to-face time. Please use **your own definition** of direct patient/client care when answering this question.)*

Share of time spent on patient care	All physicians	Primary care physicians only
None—I do not hold a position that involves direct patient care	5.1%	2.8%
Up to a quarter of my time	5.6%	3.6%
Between a quarter and a half of my time	4.5%	4.3%
Between a half and three quarters of my time	13.4%	12.8%
More than three-quarters of my time	71.5%	76.6%
Total	100.0%	100.0%

Number of years physicians intend to continue practicing

“About how many more years do you plan to work in this profession?”

Years intending to practice	Percentage of physicians
5 years or less	17.4%
6 to 10 years	21.1%
More than 10 years	61.5%
Total	100.0%

Number of years physicians intend to continue practicing, by region

Years intending to practice	Central MN	Northeast MN	Northwest MN	Minneapolis/Saint Paul	Southeast MN	Southwest MN
5 years or less	18.7%	19.7%	23.2%	17.7%	13.2%	20.7%
6 to 10 years	26.4%	22.3%	20.6%	20.7%	15.0%	20.6%
More than 10 years	54.9%	58.0%	56.2%	61.6%	71.8%	58.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Number of years physicians intend to continue practicing, by RUCA

Years intending to practice	Urban	Large Town	Small Town	Rural
5 years or less	16.4%	22.6%	21.9%	32.6%
6 to 10 years	19.6%	22.7%	22.5%	23.3%
More than 10 years	64.0%	54.8%	55.7%	44.0%
Total	100.0%	100.0%	100.0%	100.0%

Physicians' reasons for working five more years or less

If the physician indicated s/he plans to work five more years or less:

“What is the main reason you plan to leave the profession within the next five years?”

*(If more than one of these reasons applies, select the one that **best** applies to you.)*

Reason	Percentage of Physicians
To retire	83.0%
To leave the profession because of burnout or dissatisfaction	9.2%
To pursue a different career	2.6%
To pursue training in order to advance in my current or a related profession	1.4%
For family or other personal reasons	2.3%
For some other reason	1.5%
Total	100.0%

Physicians' work satisfaction

“How satisfied have you been with your career *in the last 12 months?*”
“How satisfied have you been with your career *overall?*”

Career satisfaction	Last 12 months	Overall
Very satisfied	38.2%	48.2%
Satisfied	48.1%	45.5%
Dissatisfied	10.7%	5.0%
Very dissatisfied	3.0%	1.3%
Total	100.0%	100.0%

Based on physicians' survey responses, the most important source of work *satisfaction* was being able to provide high-quality direct patient care. Physicians very much valued the relationships they had with patients.

The most important source of work *dissatisfaction* was administrative work, which physicians perceived to be increasing, and not always directly supportive of patient care.

Physicians' work settings

“At how many different physical locations do you work?”

Number of locations	Percentage of Physicians
One	51.5%
Two	23.9%
Three or more	24.7%
Total	100.0%

(If the physician works at three or more locations)

“Do you have a primary work location (that is, a physical work site where you spend the largest share of your time)?”

Yes/No	Percentage of Physicians
Yes	84.2%
No	15.8%
Total	100.0%

Physicians' primary work settings

Primary Work Setting	Percentage of Physicians
Academic (Teaching/Research)	18.4%
Clinic / Professional Office / Health Center / Ambulatory Care	51.9%
Community / Faith-Based Organization	1.2%
Correctional Facility	0.1%
Home Health Care	0.1%
Hospital	23.6%
Insurance / Benefits Management Organization	0.7%
Long-Term Care Facility	0.4%
Pharmacy	0.0%
Public Health Agency	0.2%
Commercial or Private Research Laboratory	0.1%
School (K-12)	0.0%
State, County, or City Agency	0.2%
Other	3.0%
Total	100.0%

Do physicians fill “gaps” in care?

“How often do you provide care that a different specialist might otherwise provide if they were available/accessible?”

Frequency	Type of Care					
	Any Specialty (N=16,986)	Mental Health* (N=10,535)	Oral Health* (N=10,531)	OB/GYN* (N=10,509)	Pediatrics* (N=12,544)	Other** (N=13,570)
Never	39.0%	17.0%	32.9%	34.9%	25.7%	39.1%
Occasionally	37.4%	20.2%	23.9%	15.1%	14.9%	7.6%
Frequently	17.2%	19.0%	4.4%	7.8%	13.2%	4.7%
All the time	6.3%	5.7%	0.1%	4.1%	7.9%	4.3%

Source: MDH-ORHPC Physician Workforce Survey, 2016.

* The percentages for the five specialties listed here represent the number of all licensed physicians who are working in Minnesota and whose job involves providing patient care. Therefore, the interpretation for mental health, for example, is that roughly 5.7 percent of all Minnesota-based practicing physicians say that they fill gaps in mental health care “all the time.”

** The most common “other” specialties listed include addiction medicine; cardiology; dermatology; emergency medicine; family medicine; geriatrics; radiology; and sports medicine.

Do physicians fill “gaps” in care? – Rural physicians only

**“How often do you provide care that a different specialist might otherwise provide if they were available/accessible?”
(Rural physicians only)**

Frequency	Type of Care					
	Any specialty (N=186)	Mental Health* (N=166)	Oral Health* (N=167)	OB/GYN* (N=167)	Pediatrics* (N=167)	Other** (N=148)
Never	10.2%	5.9%	15.6%	19.9%	6.5%	45.1%
Occasionally	32.2%	26.9%	64.5%	40.3%	20.4%	15.6%
Frequently	41.4%	48.4%	8.1%	22.6%	48.9%	14.5%
All the time	16.1%	8.1%	1.6%	7.0%	14.0%	4.3%

Source: MDH-ORHPC Physician Workforce Survey, 2016.

* The percentages for the five specialties listed here represent the number of all licensed physicians who are working in rural Minnesota (see Map 2 for definitions) and whose job involves providing patient care. Therefore, the interpretation for mental health, for example, is that roughly 8.1% percent of all practicing rural physicians say that they fill gaps in mental health care “all the time.”

** The most common “other” specialties listed include cardiology; surgery; and orthopedics.

Section 6: New and Emerging Models of Care

Share of physicians who use electronic health records

“How often do you use electronic health records or similar patient/client electronic records?”

Frequency	Share of physicians
Never	2.1%
Occasionally	2.3%
Frequently	7.3%
All the time	88.3%
Total	100.0%

Share of physicians who use telemedicine equipment

“How often do you diagnose or consult with patients or clients in real-time using dedicated telemedicine equipment or software?”

Frequency	Share of physicians
Never	71.9%
Occasionally	19.4%
Frequently	5.3%
All the time	3.4%
Total	100.0%

Share of physicians who provide clinical training

“How often do you provide clinical training, precepting, or supervision to students, interns, or residents?”

Frequency	Share of physicians
Never	18.6%
Occasionally	44.0%
Frequently	25.5%
All the time	11.9%
Total	100.0%

Culturally competent care

“Which of the following work or educational experiences *best prepared you to work with people from a variety of backgrounds when providing care* (sometimes referred to as “culturally competent” care)?”

Frequency	Share of physicians
None	5.0%
Informal learning on the job	47.1%
Formal on-the-job training (e.g., seminars, preceptorship or mentorship)	15.6%
Course work or training in my formal educational program	14.3%
Continuing education or professional development coursework	14.8%
Does not apply—culturally competent care is not part of my job	3.1%
Total	100.0%

Multidisciplinary care

Which of the following work or educational experiences *best prepared you to work with a multidisciplinary team when providing care?*

Frequency	Share of physicians
None	4.1%
Informal learning on the job	48.7%
Formal on-the-job training (e.g., seminars, preceptorship or mentorship)	19.5%
Course work or training in my formal educational program	15.3%
Continuing education or professional development coursework	9.7%
Does not apply—culturally competent care is not part of my job	2.7%
Total	100.0