

Vermont Department of Health  
2016 Physician Census  
Statistical Report



# 2016 Physician Census

## Statistical Report

State of Vermont  
Phil Scott, Governor

Agency of Human Services  
Al Gobeille, Secretary

Department of Health  
Mark Levine, MD, Commissioner

November, 2017

## Acknowledgments

This report would not have been possible without the cooperation of the Vermont Department of Health's Board of Medical Practice and the Secretary of State's Office of Professional Regulation. We gratefully acknowledge their assistance in the collection of this information.

We also wish to express our appreciation to all the physicians who took the time and effort to complete the census form.

## Contents

<u>Introduction</u> .....	1
<u>Summary</u> .....	3
<u>Comparison of Selected Physician Data, 1996-2016</u> .....	4
<u>Vermont Physicians' Demographics and Training</u>	
Table 1. Summary of Active Physicians.....	7
Table 2. Age by Specialty .....	8
Table 3. Specialty by Gender .....	9
Table 4. Age by County .....	10
Table 5. Years in Clinical Practice.....	11
Table 6. Medical School Location by Specialty .....	12
Table 7. Residency Training Location by Specialty .....	13
Table 8. Training at the University of Vermont.....	14
<u>Vermont Physicians' Distribution of Full Time Equivalents (FTEs)</u>	
Table 9. Full Time Equivalents (FTEs) by Age by Specialty.....	17
Table 10. Full Time Equivalents (FTEs) by Age by County .....	18
Table 11. Numbers of Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by County.....	19
Table 12. Numbers of Primary Care Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by County.....	20
Table 13. Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by County.....	21
Table 14. Primary Care Physician FTE to Population Ratios by County .....	23
<u>Vermont Physicians' Practice Characteristics</u>	
Table 15. Number of Physicians and Full Time Equivalents (FTEs), by Detailed Specialty .....	27
Table 16. Full Time Equivalents (FTEs) by Practice Setting by Specialty .....	30
Table 17. Primary and Specialty Care Full Time Equivalents (FTEs), by Detailed Practice Setting.....	31
Table 18. Practice Setting by Age .....	32
Table 19. Average Patient Care Hours per Week, by Specialty and Age.....	33
Table 20. Plan to Retire, Leave or Reduce Hours .....	34
Table 21. FTEs by Plan to Retire, Leave or Reduce Hours .....	35
Table 22. Practice Availability by Specialty: Numbers .....	36
Table 23. Practice Availability by Specialty: FTEs .....	37
Table 24. Practice Availability: FTEs by County .....	38
Table 25. Main and Secondary Specialties .....	39
Table 26. Use of Email, and Perception of its Benefit, by Specialty.....	40

### Distribution of Physicians by Health Care Areas

Table 27. Age by Health Care Area .....	43
Table 28. Age by Health Care Area: FTEs.....	44
Table 29. Numbers of Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by Health Care Area .....	45
Table 30. Numbers of Primary Care Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by Health Care Area.....	46
Table 31. Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by Health Care Area.....	47
Table 32. Primary Care Physician FTE to Population Ratios by Health Care Area .....	49

### Distribution of Physicians by Local Health Districts

Table 33. Age by Local Health District.....	50
Table 34. Age by Local Health District: FTEs.....	51
Table 35. Numbers of Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by Local Health District .....	52
Table 36. Numbers of Primary Care Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by Local Health District .....	53
Table 37. Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by Local Health District.....	54
Table 38. Primary Care Physician FTE to Population Ratios by Local Health District .....	56

### Special Groups of Physicians

Table 39. Locum Tenens, Telemedicine, & Physicians Working Few Hours .....	59
Table 40. Locum Tenens, Telemedicine, & Physicians Working Few Hours: FTEs.....	60
Table 41. Locum Tenens: Specialty by Practice Setting.....	61
Table 42. Locum Tenens: FTEs by Specialty by Practice Setting .....	62
Table 43. Physicians Working Few Hours: FTEs by Specialty by Practice Setting .....	63

### Comparison Between 2014 and 2016

Table 44. Summary of Changes in Active Physicians, 2014-2016 .....	67
Table 45. Numbers of Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by County, in 2014 and in 2016 .....	68
Table 46. Primary Care Physician Full Time Equivalents (FTEs), and Ratio to Population, by County, in 2014 and in 2016 .....	69
Table 47. Physicians who Discontinued their Vermont Practice: Age (in 2014) by Specialty and by Gender .....	70
Table 48. Physicians Active in 2016 who were Not Active in 2014: Age (in 2016) by Specialty and by Gender .....	71
Table 49. Physicians who Discontinued their Vermont Practice: FTEs by Age (in 2014) by Specialty and by Gender.....	72
Table 50. Physicians Active in 2016 who were Not Active in 2014: FTEs by Age (in 2016) by Specialty and by Gender.....	73

Table 51. Physicians who Discontinued their Vermont Practice: Count, FTEs, and Hours (in 2014), by County .....	74
Table 52. Physicians Active in 2016 who were Not Active in 2014: Count, FTEs, and Hours (in 2016), by County .....	75
Table 53. Physicians by Length of Time Active in VT as of 2014, and Whether Still Active in Vermont in 2016 .....	76
Table 54. Primary Care Physicians by Length of Time Active in VT as of 2014, and Whether Still Active in Vermont in 2016 .....	76

#### Comparison Between 2006 and 2016

Table 55. Summary of Changes in Active Physicians, 2006-2016.....	77
Table 56. Numbers of Physicians, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by County, in 2006 and in 2016 .....	78

#### Appendices

A. General Notes and Terms.....	81
B. Notes for Specific Tables (referred to by number) .....	84
C. 2016 Physician Census Form.....	87
D. Specialty List.....	91
E. Map of Vermont Counties and Towns.....	93
F. Map of Health Care Areas .....	94
G. Map of Local Health Districts.....	95





## Introduction

Since the health of Vermonters depends, in part, on access to health care, we need to measure the supply of health care providers, including their distribution by geography and specialty. In this report we present detailed profiles of physicians practicing in Vermont as of the end of the year 2016; these data can be used as the basis for policy analysis, shortage area designations, and recruitment and retention activities.

### Data Collection

This report includes physicians (MDs and DOs) who renewed their license as of late 2016. A link to the online Workforce Census form was included in the MD online relicensing conducted by the Vermont Board of Medical Practice in the fall of 2016. The questions asked are included in this report as Appendix C. The Board followed up with those who did not originally respond to the census.

A separate board licenses Doctors of Osteopathy (DO). A link to the census was included in the online relicensing done in late summer of 2016, and a paper form was included in the paper relicensing option. Follow-up was conducted as needed. Data from the DO census were combined with the MD census data to produce this report.

Included in this report are physicians who provide patient care in Vermont. Excluded are the substantial number of physicians who maintain Vermont licenses even though they do not practice in Vermont. Federally employed physicians who do not provide patient care outside a federal facility are not required to maintain a Vermont license, and are therefore not included, unless they do have a Vermont license. Physicians participating in residency programs are not required to maintain a Vermont license, although some choose to do so. For consistency, all residents, clinical fellows and research fellows are excluded from this report.

Similar surveys have been conducted every two years since 1992. Comparisons of the 2016 census to previous censii are included in this report. Similar data are collected from other health professionals. Results are available on the Department of Health web site at [healthvermont.gov/health-care-workforce-reports](http://healthvermont.gov/health-care-workforce-reports).

### Limitations

Information was obtained from or about all potentially active physicians who renewed their license by the end of 2016. Physicians who were in residency or fellowship training at the time are not included in this report. Work done on a *locum tenens* basis is not counted in this report, other than in the tables on pages 59-62. Some physicians worked partly as *locum tenens* and partly not - their non-*locum-tenens* work is reported here. (*Locum tenens* practitioners fill positions on a temporary basis when practitioners are on sabbatical, vacation, or absent for an extended period.) Physicians who worked partly in Vermont and partly elsewhere are reported here, but only their Vermont work is reported. Some physicians, notably many radiologists and some pathologists, provide services remotely from out of state to Vermont patients. They are counted in this report in the "telemedicine" practice setting, but since the portion of their work related to Vermont patients could not be determined, radiologists', pathologists' and all telemedicine hours are not reported, and full-time equivalents (FTEs) are not computed. Some physicians (mostly based at Dartmouth-Hitchcock or UVMHC) reported Vermont-specific telemedicine, meaning that they worked a specific number of hours on contract remotely providing care for a specific Vermont practice. They are counted where other telemedicine is not, since we could compute Vermont FTEs for them.

A significant number of physicians provide patient care for only a small number of hours in an average week. Some work mainly in teaching, research or administration, or are semi-retired, work

mainly out of state, or only work in Vermont seasonally. They are counted in this report, and thus one should interpret the counts with caution. The tables that report FTEs rather than counts may be more informative. See pages 59-63 for data on physicians with few hours.

The data and report were reviewed for accuracy and consistency. Missing and/or inconsistent data items were evaluated as to their importance. Non-critical missing data items are reported as missing. In a few instances where critical information was missing, but the physician is known to be practicing the same specialty in the same town as in 2014, the missing data were replaced with information from the previous census.

In general, information for this report was self-reported and not further verified. Data in this report are, therefore, subject to the limitations associated with the use of self-reported surveys. The possibility of misinterpretation of survey items is always present.

Detailed notes and definitions are included in the Appendices. Please contact us if you have any questions about the census or the report. Email us at [AHS.VDHPhysicianCensus@vermont.gov](mailto:AHS.VDHPhysicianCensus@vermont.gov), write the Department of Health, Public Health Statistics, P.O. Box 70, Burlington, VT 05402, or call us at (802) 863-7300.

## Summary of Active Physicians, 2016

- ◆ This report includes data reported by 2182 physicians providing patient care in Vermont. This includes 2082 Medical Doctors and 100 Doctors of Osteopathy. Residents and fellows are excluded from this report. Included are 122 who work in telemedicine.
- ◆ 636 physicians provide mainly primary care, and 647 physicians provide any primary care, corresponding to 468.6 Full Time Equivalents (FTEs) – a slight drop from 2014.
- ◆ 1546 physicians provide mainly specialty care. Excluding radiologists, pathologists, and telemedicine, 1301 physicians provide any specialty care, corresponding to 916.6 FTEs.
- ◆ 34% of primary care physicians are over age 60, as compared with 29% in 2014, 19% in 2008, and 9% in 2002. 46% of primary care internists are over age 60. 32% of family medicine FTEs, and 40% of primary care internal medicine, were provided by physicians over age 60.
- ◆ In half the counties, 39% or more of the primary care physicians are over age 60: Bennington (51%), Lamoille (50%), Windham (48%), Caledonia (46%), Orange (44%), Windsor (43%), and Franklin (39%).
- ◆ 27% of specialists are over age 60 (providing 26% of specialist FTEs). This includes 47% of psychiatrists, 39% of general surgeons, and 34% of ophthalmologists.
- ◆ The prevalence of tele-medicine has increased further, mostly in radiology, but now also in emergency medicine, internal medicine subspecialties, and others.
- ◆ 84% of primary care physicians (in office settings) accept new patients, but only 78% accept new Medicaid patients and 75% accept new Medicare patients.
- ◆ 838 or 38% of Vermont physicians, and 54% of primary care physicians, are women. In 1996 22% of Vermont physicians, and 28% of primary care physicians, were women.
- ◆ 674 or 33% of Vermont's physicians have attended the University of Vermont's College of Medicine and/or have completed a residency or fellowship there. 429 (21%) are graduates of the College of Medicine, and 422 (21%) did a residency or fellowship there.
- ◆ Vermont saw a drop of 8.3 primary care FTEs between 2014 and 2016, as some physicians have retired or reduced their work hours. Conversely, an increase of 80.5 FTEs was seen in specialty care, and that is excluding pathologists, radiologists and telemedicine.
- ◆ Within primary care, the total FTEs of internal medicine and pediatrics decreased between 2014 and 2016, while the total FTEs of family medicine increased slightly.
- ◆ The statewide ratio of primary care physician FTEs to population decreased between 2014 and 2016, with the largest decreases in Franklin and Addison Counties. Noticable increases were seen in Caledonia and Windham Counties.
- ◆ 66% of primary care physicians and 41% of specialty care physicians reported using electronic methods of communicating with patients. 49% of primary care and 36% of specialty care physicians felt it improved, or could improve communications.
- ◆ 107 physicians (not counted above) practice as locum tenens in Vermont and provide 27.9 FTEs, primarily in Emergency Medicine (7.6 FTEs) and Psychiatry (5.1 FTEs)
- ◆ See the next page for a fuller comparison of data over the years 1996-2016.

## Comparison of Selected Physician Data, 1996-2016

	1996	2000	2004	2008	2010	2014	2016
Total active * physicians	1384	1480	1612	1833	1877	1933	2182
Percent female	22%	26%	29%	31%	33%	38%	38%
Primary care physicians	535	585	634	634	628	636	636
Family Practice	227	258	280	279	284	285	286
Internal Medicine	155	164	177	175	167	163	162
Ob/Gyn	63	64	70	75	68	68	71
Pediatric Primary Care	90	99	107	105	109	120	117
% over age 60	13%	9%	12%	19%	21%	29%	34%
% accept new patients ^	91%	80%	81%	80%	83%	82%	84%
accept new Medicaid patients	86%	73%	70%	69%	72%	76%	78%
accept new Medicare patients	87%	74%	71%	69%	69%	72%	75%
Specialist physicians	849	895	978	1199	1249	1297	1546
Anesthesiology	60	59	78	97	93	97	105
Emergency Medicine	81	76	84	108	113	130	167
Internal Medicine @	124	138	157	217	227	192	246
Hospitalists @						95	92
Pathology #	42	42	47	53	55	55	62
Psychiatry	152	154	160	172	174	179	175
Radiology #	61	72	71	129	139	106	176
General Surgery	50	42	46	50	52	44	54
Orthopedic Surgery	50	55	57	72	76	67	81
Other Specialties	229	257	278	301	320	332	388
Primary care physician FTEs &	438.2	472.2	478.7	498.2	492.1	476.9	468.6
Family Practice	180.6	211.5	215.9	223.9	222.9	207.1	210.0
Internal Medicine	126.9	128.5	124.5	126.5	120.7	114.3	110.0
Ob/Gyn	55.1	53.3	58.3	62.5	59.1	58.2	58.8
Pediatric Primary Care	75.7	78.8	79.9	85.3	89.3	97.3	89.9
FTEs/100,000 population	73.4	77.6	77.0	80.2	78.6	76.1	75.0
% of FTEs in Chittenden Co.	30%	28%	29%	30%	31%	30%	32%
Specialist physician FTEs # &	573.2	621.3	656.1	818.1	843.7	836.1	916.6
Anesthesiology	56.4	56.4	67.7	85.5	85.7	84.9	91.1
Emergency Medicine	56.5	57.0	59.6	80.7	84.2	86.9	91.3
Internal Medicine ^ @	89.4	104.6	118.0	172.8	177.9	136.4	162.1
Hospitalists @						72.9	75.0
Psychiatry	104.1	117.5	118.8	129.9	130.3	116.6	116.0
General Surgery	41.6	36.0	36.4	46.7	44.6	36.8	45.6
Orthopedic Surgery	46.7	49.9	49.0	59.6	59.7	54.0	60.1
Other Specialties #	178.5	199.8	206.7	242.9	261.3	247.6	275.4
% of FTEs in Chittenden Co.	42%	43%	46%	45%	45%	45%	46%

\* providing patient care in Vermont (includes tele-medicine)

^ % of physicians not sites – see Notes 10 and 11

@ internists included hospitalists prior to 2014

# FTEs not computed for pathology, radiology, and all tele-medicine

& FTEs for 2004 may be underestimated by as much as 4% overall.

# Vermont Physicians Demographics and Training



Table 1 -- VT Physicians, 2016  
Summary of Active Physicians

TOTAL	2182	
Medical Doctor (MD)	2082	( 95%)
Doctor of Osteopathy (DO)	100	( 5%)
Main specialty:		
Primary Care Total	636	( 29%)
Family Practice	286	( 13%)
Primary Care Internal Medicine	162	( 7%)
Obstetrics and Gynecology	71	( 3%)
Pediatrics	117	( 5%)
Specialty Care Total	1546	( 71%)
Anesthesiology	105	( 5%)
Dermatology	23	( 1%)
Emergency Medicine	167	( 8%)
Hospitalist	92	( 4%)
Internal Medicine Specialties	246	( 11%)
Pediatrics Specialties	40	( 2%)
Neurology	44	( 2%)
Ophthalmology	41	( 2%)
Pathology	62	( 3%)
Psychiatry	175	( 8%)
Radiology	176	( 8%)
Surgery: General	54	( 2%)
Surgery: Orthopedic	81	( 4%)
Surgery: Other	40	( 2%)
Urology	23	( 1%)
Urgent Care	6	( 0%)
Other Specialties	171	( 8%)
Age groups:		
less than 35	105	( 5%)
35 - 44	511	( 23%)
45 - 54	593	( 27%)
55 - 59	339	( 16%)
60 - 64	330	( 15%)
65 and older	304	( 14%)
Gender:		
Male	1344	( 62%)
Female	838	( 38%)
Number of practice sites: *		
One	1834	( 89%)
Two	189	( 9%)
Three or more	37	( 2%)
Patient care hours: **		
40 or more hours/week	780	( 41%)
30 to 39 hours/week	432	( 23%)
10 to 30 hours/week	448	( 24%)
less than 10 hours/week	226	( 12%)

\* telemedicine excluded

\*\* pathology, radiology & telemedicine excluded

Table 2 -- VT Physicians, 2016  
Age by Specialty and by Gender

	Total	Number in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	2182	105	511	593	339	330	304	29%
MALES	1344	52	248	342	223	228	251	36%
FEMALES	838	53	263	251	116	102	53	18%
PRIMARY CARE	636	37	127	166	87	108	111	34%
Family Practice	286	16	55	79	37	55	44	35%
Internal Medicine	162	6	22	35	25	31	43	46%
Ob/Gyn	71	5	18	21	11	8	8	23%
Pediatrics	117	10	32	31	14	14	16	26%
SPECIALTY CARE	1546	68	384	427	252	222	193	27%
Anesthesiology	105	2	20	34	26	18	5	22%
Dermatology	23	1	8	7	2	1	4	22%
Emergency Medicine	167	13	52	43	30	21	8	17%
Hospitalist	92	8	33	28	13	6	4	11%
Internal Medicine	246	11	53	67	45	32	38	28%
Pediatrics	40	3	13	7	5	6	6	30%
Neurology	44	3	14	10	5	4	8	27%
Ophthalmology	41	1	12	8	6	8	6	34%
Pathology	62	3	18	22	6	8	5	21%
Psychiatry	175	3	35	29	25	32	51	47%
Radiology	176	9	48	57	30	23	9	18%
Surgery: General	54	1	9	14	9	11	10	39%
Surgery: Orthopedic	81	2	16	24	16	11	12	28%
Surgery: Other	40	.	11	16	5	5	3	20%
Urology	23	1	5	8	5	3	1	17%
Urgent Care	6	.	1	3	.	1	1	33%
Other Specialties	171	7	36	50	24	32	22	32%
	Total	Percent in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	5%	23%	27%	16%	15%	14%	29%
MALES	100%	4%	18%	25%	17%	17%	19%	36%
FEMALES	100%	6%	31%	30%	14%	12%	6%	18%
PRIMARY CARE	100%	6%	20%	26%	14%	17%	17%	34%
SPECIALTY CARE	100%	4%	25%	28%	16%	14%	12%	27%

See Note 1 for a description of the calculation of age.



Table 3 -- VT Physicians, 2016  
Specialty by Gender

Specialty	Total	Male	Female	Percent Female
TOTAL	2182	1344	838	38%
PRIMARY CARE	636	295	341	54%
Family Practice	286	148	138	48%
Internal Medicine	162	90	72	44%
Ob/Gyn	71	21	50	70%
Pediatrics	117	36	81	69%
SPECIALTY CARE	1546	1049	497	32%
Anesthesiology	105	80	25	24%
Dermatology	23	10	13	57%
Emergency Medicine	167	125	42	25%
Hospitalist	92	57	35	38%
Internal Medicine	246	180	66	27%
Pediatrics	40	18	22	55%
Neurology	44	30	14	32%
Ophthalmology	41	29	12	29%
Pathology	62	29	33	53%
Psychiatry	175	99	76	43%
Radiology	176	116	60	34%
Surgery: General	54	45	9	17%
Surgery: Orthopedic	81	72	9	11%
Surgery: Other	40	35	5	13%
Urology	23	20	3	13%
Urgent Care	6	4	2	33%
Other Specialties	171	100	71	42%

Table 4 -- VT Physicians, 2016  
Age by County

County	Total	Number in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL								
Total	2182	105	511	593	339	330	304	29%
Primary Care	636	37	127	166	87	108	111	34%
Specialists	1546	68	384	427	252	222	193	27%
Addison County								
Primary Care	37	2	9	15	3	5	3	22%
Specialists	33	.	7	9	6	8	3	33%
Bennington County								
Primary Care	41	2	6	7	5	11	10	51%
Specialists	88	3	19	33	13	11	9	23%
Caledonia County								
Primary Care	28	1	3	7	4	5	8	46%
Specialists	49	4	8	17	6	10	4	29%
Chittenden County								
Primary Care	208	17	50	60	29	31	21	25%
Specialists	612	29	174	145	106	82	76	26%
Essex County								
Primary Care	4	.	1	1	1	1	.	25%
Specialists	.	.	.	.	.	.	.	.
Franklin County								
Primary Care	31	.	6	7	6	9	3	39%
Specialists	45	2	9	15	8	10	1	24%
Grand Isle County								
Primary Care	3	.	1	2	.	.	.	.
Specialists	1	.	.	.	.	.	1	100%
Lamoille County								
Primary Care	24	.	4	5	3	5	7	50%
Specialists	26	.	3	8	4	4	7	42%
Orange County								
Primary Care	25	1	5	3	5	3	8	44%
Specialists	34	.	5	8	12	7	2	26%
Orleans County								
Primary Care	18	2	3	7	1	3	2	28%
Specialists	45	.	10	13	12	4	6	22%
Rutland County								
Primary Care	44	2	8	11	12	5	6	25%
Specialists	109	6	20	33	23	14	13	25%
Washington County								
Primary Care	54	4	14	14	3	9	10	35%
Specialists	109	5	30	27	16	15	16	28%
Windham County								
Primary Care	52	2	8	13	4	11	14	48%
Specialists	158	7	32	47	19	26	27	34%
Windsor County								
Primary Care	67	4	9	14	11	10	19	43%
Specialists	108	5	22	30	13	16	22	35%

Each physician is counted once in this table, in their main specialty group, and, independently, in their main county of practice (see Note 2). Telemedicine is only counted in the statewide totals. The 'Total' lines include 7 physicians with undefined locations. See Table 10 for FTEs rather than counts.

Table 5 -- VT Physicians, 2016  
Years in Clinical Practice

In Clinical Practice	PRIMARY CARE		SPECIALTY CARE	
	Anywhere	In Vermont	Anywhere	In Vermont
less than a year	11 ( 2%)	30 ( 5%)	12 ( 1%)	77 ( 6%)
1 to 2 years	12 ( 2%)	49 ( 8%)	27 ( 2%)	138 (10%)
3 to 4 years	33 ( 5%)	40 ( 6%)	50 ( 4%)	109 ( 8%)
5 to 9 years	76 (12%)	110 (17%)	222 (16%)	259 (19%)
10 to 14 years	76 (12%)	66 (10%)	190 (14%)	207 (15%)
15 to 19 years	76 (12%)	82 (13%)	166 (12%)	171 (12%)
20 to 24 years	81 (13%)	75 (12%)	209 (15%)	168 (12%)
25 to 29 years	81 (13%)	67 (11%)	171 (12%)	91 ( 7%)
30 to 34 years	87 (14%)	45 ( 7%)	148 (11%)	67 ( 5%)
35 years or more	103 (16%)	71 (11%)	171 (12%)	81 ( 6%)
unknown	0	1	7	5
Total	636	636	1373	1373

Note: All telemedicine, including VT-specific, excluded from this table.

Table 6 -- VT Physicians, 2016  
 Medical School Location by Specialty

Specialty	Total	Percent Graduated from Medical School in Region								
		VT	NH	Other NewEng	Other NE	South	Central	West	Canada	Other Foreign
TOTAL	2060	21%	2%	11%	23%	13%	14%	5%	3%	8%
PRIMARY CARE	636	28%	3%	10%	24%	11%	11%	5%	3%	6%
Family Practice	286	26%	5%	11%	22%	10%	12%	4%	4%	5%
Internal Medicine	162	23%	3%	13%	25%	10%	14%	4%	1%	6%
Ob/Gyn	71	28%	3%	3%	25%	15%	7%	8%	4%	6%
Pediatrics	117	36%	2%	5%	23%	14%	8%	5%	3%	5%
SPECIALTY CARE	1424	18%	2%	11%	22%	14%	15%	6%	3%	9%
Anesthesiology	105	32%	2%	4%	16%	16%	16%	6%	2%	8%
Dermatology	22	27%	5%	18%	27%	.	9%	9%	5%	.
Emergency Medicine	152	17%	2%	11%	24%	15%	15%	9%	3%	4%
Hospitalist	92	29%	1%	5%	24%	18%	10%	3%	.	10%
Internal Medicine	229	11%	1%	13%	28%	10%	11%	4%	2%	21%
Pediatrics	40	18%	.	18%	25%	10%	15%	3%	8%	5%
Neurology	41	7%	.	15%	24%	17%	7%	5%	5%	20%
Ophthalmology	40	18%	3%	10%	33%	10%	25%	.	3%	.
Pathology	59	30%	2%	9%	9%	23%	14%	7%	.	7%
Psychiatry	171	18%	1%	12%	18%	11%	22%	6%	3%	8%
Radiology	115	12%	7%	8%	22%	16%	20%	4%	4%	7%
Surgery: General	54	28%	.	11%	15%	17%	13%	4%	2%	11%
Surgery: Orthopedic	81	12%	.	20%	23%	20%	17%	2%	4%	1%
Surgery: Other	40	20%	.	5%	23%	13%	25%	8%	5%	3%
Urology	23	22%	4%	4%	22%	13%	17%	4%	9%	4%
Urgent Care	6	.	.	17%	17%	50%	17%	.	.	.
Other Specialties	154	15%	3%	12%	21%	17%	14%	10%	4%	5%

This table excludes telemedicine.

State of medical school is not known for 10 of the specialists. This table uses the standard mapping of states to regions, but separates out VT and NH (Note 12).

Table 7 -- VT Physicians, 2016  
Residency Training Location by Specialty

Specialty	Total	Percent Received Residency Training in Region								
		VT	NH	Other NewEng	Other NE	South	Central	West	Canada	Other Foreign
TOTAL	2060	21%	6%	18%	19%	10%	12%	10%	2%	1%
PRIMARY CARE	636	25%	6%	16%	21%	10%	10%	10%	3%	1%
Family Practice	286	26%	2%	15%	23%	10%	9%	11%	4%	1%
Internal Medicine	162	23%	9%	22%	19%	7%	12%	8%	1%	1%
Ob/Gyn	71	28%	8%	10%	20%	11%	10%	8%	4%	.
Pediatrics	117	25%	9%	11%	19%	12%	10%	13%	1%	1%
SPECIALTY CARE	1424	19%	7%	19%	19%	10%	13%	10%	2%	1%
Anesthesiology	105	30%	9%	18%	16%	6%	10%	10%	2%	.
Dermatology	22	9%	23%	14%	18%	5%	23%	9%	.	.
Emergency Medicine	152	5%	1%	29%	27%	9%	14%	13%	2%	1%
Hospitalist	92	25%	7%	21%	21%	11%	7%	9%	.	.
Internal Medicine	229	16%	6%	22%	20%	9%	14%	8%	1%	4%
Pediatrics	40	28%	3%	20%	18%	10%	.	13%	8%	3%
Neurology	41	17%	5%	20%	17%	12%	12%	7%	5%	5%
Ophthalmology	40	3%	3%	5%	33%	20%	25%	10%	3%	.
Pathology	59	33%	3%	14%	12%	16%	16%	7%	.	.
Psychiatry	171	25%	16%	15%	13%	7%	11%	9%	2%	1%
Radiology	115	18%	8%	17%	16%	9%	15%	13%	4%	1%
Surgery: General	54	22%	4%	19%	22%	11%	15%	4%	2%	2%
Surgery: Orthopedic	81	21%	9%	15%	21%	11%	12%	7%	4%	.
Surgery: Other	40	20%	8%	13%	18%	13%	13%	10%	5%	3%
Urology	23	.	4%	17%	22%	17%	22%	4%	9%	4%
Urgent Care	6	.	17%	17%	.	33%	17%	17%	.	.
Other Specialties	154	17%	3%	16%	18%	14%	14%	14%	3%	.

This table excludes telemedicine.

The 2016 census only asked about one residency for each physician (Note 13). This table uses the standard mapping of states to regions, but separates out VT and NH (Note 12). Location of residency is not known for 1 of the primary care physicians and 11 of the specialists.

Table 8 -- VT Physicians, 2016  
 Training at the University of Vermont

	Total	Doctors with Known Medical School	Graduated from VT (UVM) Medical School
Primary Care	636	636	175 (28%)
Specialists	1424	1414	254 (18%)
Total	2060	2050	429 (21%)

	Total	Doctors with Known Residency	Completed VT (UVMVC) Residency
Primary Care	636	635	159 (25%)
Specialists	1424	1414	263 (19%)
Total	2060	2049	422 (21%)

	Total	Doctors with Any Known Training	Any Training in VT
Primary Care	636	636	261 (41%)
Specialists	1424	1416	413 (29%)
Total	2060	2052	674 (33%)

Percentages are based on the number of physicians with known training (in the same row).

This table excludes telemedicine. The 2016 census only asked about one residency for each physician (Note 13).

177 Vermont physicians both graduated from a VT Medical School (UVM) and did a residency in VT (FAHC). Therefore, the number under 'Any Training in VT' is less than the sum of VT graduates and residents (see Note 14).

# Vermont Physicians Distribution of Full Time Equivalents (FTEs)





Table 9 -- VT Physicians, 2016  
Full Time Equivalents (FTEs) by Age by Specialty and Gender

	Total	FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	1385.3	71.4	325.5	365.3	245.2	208.9	169.0	27%
MALES	838.4	33.2	149.6	210.4	162.0	142.9	140.3	34%
FEMALES	546.9	38.3	175.9	154.9	83.1	66.0	28.6	17%
PRIMARY CARE	468.6	29.6	96.7	127.1	71.5	76.0	67.8	31%
Family Practice	210.0	12.8	40.5	58.2	30.7	39.4	28.5	32%
Internal Medicine	110.0	4.6	15.0	26.0	20.4	18.3	25.5	40%
Ob/Gyn	58.8	4.8	16.4	18.4	8.1	6.8	4.4	19%
Pediatrics	89.9	7.4	24.8	24.5	12.3	11.5	9.5	23%
SPECIALTY CARE	916.6	41.9	228.8	238.2	173.6	132.9	101.1	26%
Anesthesiology	91.1	2.0	19.0	29.3	23.0	13.8	4.0	20%
Dermatology	17.1	.	6.0	5.9	1.8	1.0	2.4	20%
Emergency Medicine	91.3	8.2	24.2	23.6	20.3	11.6	3.3	16%
Hospitalist	75.0	6.1	26.5	22.4	12.1	5.3	2.6	11%
Internal Medicine	162.1	7.9	36.4	40.0	38.0	20.3	19.5	25%
Pediatrics	27.7	3.0	9.2	5.3	3.5	2.6	4.1	24%
Neurology	26.8	2.1	10.7	3.1	3.3	3.6	3.9	28%
Ophthalmology	34.9	1.0	10.9	8.2	5.8	5.0	4.0	26%
Psychiatry	116.0	1.6	27.0	16.0	17.8	21.4	32.3	46%
Surgery: General	45.6	1.0	8.3	13.3	7.9	9.1	6.0	33%
Surgery: Orthopedic	60.1	2.0	14.6	17.2	12.0	8.3	6.1	24%
Surgery: Other	34.6	.	9.9	13.7	4.8	4.0	2.1	18%
Urology	21.0	1.0	4.3	7.6	5.0	3.0	.2	15%
Urgent Care	3.4	.	1.3	.7	.3	.2	.9	33%
Other Specialties	110.0	6.0	20.5	32.1	18.0	23.7	9.7	30%

	Total	% of total FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	5%	23%	26%	18%	15%	12%	27%
MALES	100%	4%	18%	25%	19%	17%	17%	34%
FEMALES	100%	7%	32%	28%	15%	12%	5%	17%
PRIMARY CARE	100%	6%	21%	27%	15%	16%	14%	31%
SPECIALTY CARE	100%	5%	25%	26%	19%	15%	11%	26%

See Note 1 for a description of the calculation of age.  
Pathologists, radiologists and telemedicine excluded (Note 3).

Table 10 -- VT Physicians, 2016  
Full Time Equivalents (FTEs) by Age by County

County	Total	FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL								
Total	1385.3	71.4	325.5	365.3	245.2	208.9	169.0	27%
Primary Care	468.6	29.6	96.7	127.1	71.5	76.0	67.8	31%
Specialists	916.6	41.9	228.8	238.2	173.6	132.9	101.1	26%
Addison County								
Primary Care	24.5	1.9	7.3	10.6	1.8	2.1	.7	12%
Specialists	22.9	.	4.6	6.2	4.7	6.0	1.5	32%
Bennington County								
Primary Care	31.2	1.9	5.1	5.4	4.6	7.2	6.9	45%
Specialists	55.4	2.9	10.5	20.0	9.3	8.6	4.1	23%
Caledonia County								
Primary Care	20.9	.9	3.0	4.4	3.6	4.1	5.1	44%
Specialists	28.9	3.4	5.3	8.0	4.3	5.4	2.4	27%
Chittenden County								
Primary Care	148.8	12.5	34.9	45.5	20.9	22.3	12.7	24%
Specialists	419.2	19.6	126.6	94.2	79.5	52.5	46.8	24%
Essex County								
Primary Care	1.8	.	<.05	.6	.7	.5	.	28%
Specialists	.	.	.	.	.	.	.	.
Franklin County								
Primary Care	26.8	.	5.5	7.0	4.1	7.4	2.8	38%
Specialists	36.5	1.0	8.8	9.7	7.2	9.4	.4	27%
Grand Isle County								
Primary Care	1.8	.	.7	1.0	.	.	.	0%
Specialists	.1	.	.	.	.	.	.1	100%
Lamoille County								
Primary Care	18.0	.	2.6	4.0	2.8	4.1	4.4	47%
Specialists	22.5	.	3.2	7.4	4.8	2.1	5.0	31%
Orange County								
Primary Care	16.6	1.0	4.2	2.6	4.3	1.6	2.8	27%
Specialists	19.2	.	3.6	3.4	7.2	3.9	1.2	26%
Orleans County								
Primary Care	15.3	1.8	2.3	5.9	1.3	2.2	1.8	26%
Specialists	24.5	.	4.9	8.5	4.4	3.7	3.0	27%
Rutland County								
Primary Care	36.1	2.0	7.0	8.0	11.2	4.3	3.7	22%
Specialists	83.5	4.4	17.0	26.2	19.7	8.9	7.4	19%
Washington County								
Primary Care	45.5	3.1	11.8	12.5	3.0	7.7	7.4	33%
Specialists	85.1	5.1	25.9	20.2	13.0	11.6	9.4	25%
Windham County								
Primary Care	39.0	1.3	6.7	10.7	3.2	7.1	9.9	44%
Specialists	65.0	2.6	12.3	17.3	9.6	10.7	12.5	36%
Windsor County								
Primary Care	42.4	3.2	5.6	8.7	10.0	5.2	9.7	35%
Specialists	53.7	2.9	6.2	17.0	9.9	10.2	7.5	33%

Pathologists and radiologists are excluded from this table (see Note 3).  
See Note 4 regarding calculation of hours and FTEs by county.  
See Table 4 for counts rather than FTEs.

Table 11 -- VT Physicians, 2016  
 Numbers of Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by County

Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL	1890 1385.3 62314	647 468.6 20617	1301 916.6 41697
Addison County	77 47.4 2089	39 24.5 1058	40 22.9 1031
Bennington County	126 86.6 3833	42 31.2 1435	86 55.4 2398
Caledonia County	84 49.8 2266	29 20.9 884	58 28.9 1382
Chittenden County	770 568.0 25833	212 148.8 6527	573 419.2 19306
Essex County	4 1.8 90	4 1.8 90	. . .
Franklin County	78 63.3 2891	31 26.8 1197	50 36.5 1694
Grand Isle County	4 1.8 73	3 1.8 71	1 .1 3
Lamoille County	63 40.5 1834	25 18.0 809	42 22.5 1026
Orange County	62 35.8 1626	26 16.6 743	38 19.2 883
Orleans County	61 39.8 1700	22 15.3 668	43 24.5 1032
Rutland County	162 119.7 5713	45 36.1 1717	117 83.5 3996
Washington County	181 130.6 5795	56 45.5 2053	130 85.1 3742
Windham County	183 104.0 4445	52 39.0 1607	136 65.0 2839
Windsor County	171 96.1 4126	70 42.4 1760	107 53.7 2366

In this table physicians may be counted more than once (Note 4).  
 Pathologists, radiologists and telemedicine are excluded (Note 3).

Table 12 -- VT Physicians, 2016  
 Numbers of Primary Care Physicians, Full Time Equivalents  
 (FTEs), and Total Weekly Patient Care Hours, by County

Count FTEs Hours	PRIMARY CARE TOTAL	FAMILY	INTERNAL	OB/GYN	PEDIATRIC
STATEWIDE TOTAL	647 468.6 20617	293 210.0 9117	165 110.0 4778	75 58.8 2893	121 89.9 3829
Addison County	39 24.5 1058	24 13.4 594	4 2.3 91	4 3.0 132	8 5.8 241
Bennington County	42 31.2 1435	19 13.0 596	10 6.7 316	6 4.8 240	7 6.8 284
Caledonia County	29 20.9 884	13 8.4 339	8 5.5 226	3 2.8 142	6 4.2 177
Chittenden County	212 148.8 6527	82 55.0 2366	56 40.7 1772	30 22.2 1076	45 30.9 1313
Essex County	4 1.8 90	3 1.1 45	1 .5 30	. . . .	1 .2 15
Franklin County	31 26.8 1197	15 12.7 548	4 3.3 164	4 3.3 143	8 7.4 341
Grand Isle County	3 1.8 71	1 .7 30	2 1.0 41	. . . .	. . . .
Lamoille County	25 18.0 809	18 14.0 645	1 .8 32	4 1.8 78	2 1.4 54
Orange County	26 16.6 743	8 6.8 316	7 2.7 108	4 1.7 68	8 5.4 250
Orleans County	22 15.3 668	8 6.0 276	9 4.6 195	2 2.0 85	4 2.7 112
Rutland County	45 36.1 1717	22 16.4 685	12 9.4 464	5 5.0 331	8 5.4 237
Washington County	56 45.5 2053	28 22.8 1019	16 11.1 465	6 6.0 333	6 5.6 235
Windham County	52 39.0 1607	29 21.5 891	10 7.4 296	4 3.5 154	9 6.7 266
Windsor County	70 42.4 1760	28 18.2 769	27 14.0 579	5 2.8 110	10 7.5 302

In this table physicians may be counted more than once (Note 4).

Table 13 -- VT Physicians, 2016  
 Numbers of Specialty Care Physicians, Full Time Equivalents  
 (FTEs), and Total Weekly Patient Care Hours, by County

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTHES- IOLOGY	EMERGENCY MEDICINE	HOSPITALIST	INTERNAL MEDICINE	NEUROLOGY	OPHTHALM- OLOGY
STATE TOTAL	1301 916.6 41697	105 91.1 4211	157 91.3 3707	107 75.0 3367	240 162.1 7444	42 26.8 1171	41 34.9 1557
Addison County	40 22.9 1031	2 1.4 55	10 5.1 205	3 1.3 74	8 2.1 94	. . . . .	1 1.0 50
Bennington County	86 55.4 2398	4 3.4 148	15 8.6 356	12 9.1 380	17 12.1 494	3 .9 37	4 3.3 140
Caledonia County	58 28.9 1382	3 .5 20	8 3.0 122	5 2.8 156	21 6.4 277	2 1.8 86	2 2.0 82
Chittenden County	573 419.2 19306	56 49.5 2300	26 16.3 667	25 18.4 832	124 88.3 4154	27 16.2 701	19 15.2 674
Essex County	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Franklin County	50 36.5 1694	5 3.8 183	12 8.0 335	6 3.7 166	4 1.3 60	1 .2 8	2 1.9 80
Grand Isle County	1 .1 3	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Lamoille County	42 22.5 1026	3 2.7 131	9 5.5 223	1 1.0 47	8 2.4 101	1 1.0 50	. . . . .
Orange County	38 19.2 883	5 4.0 165	7 4.0 160	2 1.5 67	3 .3 10	1 .5 19	1 1.0 40
Orleans County	43 24.5 1032	3 2.9 123	10 5.2 214	4 2.3 107	8 3.8 155	1 .8 32	2 1.3 53
Rutland County	117 83.5 3996	7 6.1 311	20 12.4 497	13 10.4 428	27 20.3 958	2 1.9 95	4 3.0 142
Washington County	130 85.1 3742	11 6.0 294	14 9.8 391	15 10.2 444	20 14.6 650	5 2.5 101	4 3.0 118
Windham County	136 65.0 2839	5 3.9 171	32 11.5 465	6 3.8 191	19 6.4 315	1 1.0 40	2 1.3 54
Windsor County	107 53.7 2366	9 7.0 311	7 1.8 73	17 10.4 477	17 4.1 177	1 <.05 1	2 1.9 124

(continued on next page)

Table 13 (continued) -- VT Physicians, 2016  
 Numbers of Specialty Care Physicians, Full Time Equivalents  
 (FTEs), and Total Weekly Patient Care Hours, by County

Count FTEs Hours	SPECIALTY CARE TOTAL	PSYCHIATRY	GENERAL SURGERY	ORTHOP. SURGERY	OTHER SURGERY	UROLOGY	OTHER
STATE TOTAL	1301 916.6 41697	173 116.0 4941	57 45.6 2320	81 60.1 3048	44 34.6 1877	23 21.0 1088	273 158.2 6967
Addison County	40 22.9 1031	5 2.3 98	2 2.0 103	2 2.0 121	. . . .	1 .9 36	7 4.8 196
Bennington County	86 55.4 2398	6 3.1 131	4 3.9 207	4 2.6 145	2 1.0 61	2 1.9 76	16 5.5 223
Caledonia County	58 28.9 1382	3 2.1 84	1 1.0 40	3 3.0 156	2 2.0 118	1 1.0 40	8 3.2 203
Chittenden County	573 419.2 19306	66 43.2 1865	14 9.0 442	25 21.6 1073	35 28.7 1550	10 8.9 473	162 103.9 4574
Essex County	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Franklin County	50 36.5 1694	4 3.5 141	4 4.0 226	4 4.0 188	. . . .	2 1.0 88	8 5.1 219
Grand Isle County	1 .1 3	. . . .	. . . .	. . . .	. . . .	. . . .	1 .1 3
Lamoille County	42 22.5 1026	5 2.1 86	1 1.0 55	5 4.8 245	. . . .	1 .8 30	8 1.3 60
Orange County	38 19.2 883	7 2.5 100	3 2.1 134	1 1.0 73	2 1.3 52	1 .7 48	5 .4 15
Orleans County	43 24.5 1032	5 1.6 64	4 3.8 164	2 1.3 56	. . . .	1 .1 8	4 1.4 57
Rutland County	117 83.5 3996	14 7.1 321	7 5.5 364	6 6.0 323	3 1.3 81	1 1.0 65	15 8.6 412
Washington County	130 85.1 3742	28 16.4 694	7 5.7 258	8 7.2 364	1 .1 4	3 2.0 88	17 7.6 336
Windham County	136 65.0 2839	32 21.4 916	4 3.1 127	19 5.1 242	1 <.05 1	2 1.2 63	18 6.3 255
Windsor County	107 53.7 2366	24 10.6 443	6 4.5 200	3 1.6 62	1 .3 10	3 1.5 73	21 10.1 415

In this table physicians may be counted more than once (Note 4).  
 Pathologists and radiologists are excluded from this table (Note 3).

Table 14 -- VT Physicians, 2016  
 Primary Care Physicians: Ratio of Full Time Equivalents (FTEs)  
 to Population, by County

County	FTEs	Population	FTEs per 100,000 Population	Population per FTE
STATEWIDE TOTAL	468.6	624,594	75.0	1,333
Addison County	24.5	36,959	66.3	1,509
Bennington County	31.2	36,191	86.3	1,159
Caledonia County	20.9	30,333	69.1	1,448
Chittenden County	148.8	161,531	92.1	1,086
Essex County	1.8	6,176	29.2	3,421
Franklin County	26.8	48,915	54.7	1,827
Grand Isle County	1.8	6,919	25.6	3,900
Lamoille County	18.0	25,333	70.9	1,410
Orange County	16.6	28,919	57.3	1,745
Orleans County	15.3	26,863	57.0	1,754
Rutland County	36.1	59,310	60.9	1,641
Washington County	45.5	58,504	77.8	1,286
Windham County	39.0	43,145	90.3	1,108
Windsor County	42.4	55,496	76.3	1,310

Only primary care physicians are included in this table.  
 An FTE is defined as 40 (or more) hours/week, 48 weeks/year.  
 The FTEs are rounded to 1 decimal for display only.  
 The ratios were calculated using the unrounded values,  
 then rounded in turn to 1 decimal for display.

Population estimates are for July 2016, from the Census Bureau  
 (see Note 4 and Note 7).





# Vermont Physician Practice Characteristics



Table 15 -- VT Physicians, 2016  
Detailed Specialty List - Counts and FTEs

SPECIALTY GROUP Specialty	Number of Physicians	FTEs
TOTAL		1385.3
--- PRIMARY CARE ---		
FAMILY PRACTICE		
Adolescent Medicine (FP)	1	.7
Family Practice	265	191.6
General Practice	12	6.0
Geriatric Family Medicine	14	6.6
Osteopathic Medicine (general)	10	5.1
INTERNAL MEDICINE (PRIMARY)		
Geriatric Internal Medicine	18	9.1
Internal Medicine	149	100.8
OB/GYN		
Gynecology	14	8.3
Obstetrics	2	.5
Obstetrics & Gynecology	59	50.0
PEDIATRICS (PRIMARY)		
Adolescent Medicine (Pediatrics)	5	2.7
Pediatrics (general)	117	87.1
--- SPECIALTY CARE ---		
ANESTHESIOLOGY		
Anesthesiology	85	72.8
Critical Care Medicine (Anesthes.)	6	3.5
Pain Management	9	5.9
Pain Medicine	8	4.8
Pediatric Anesthesiology	5	4.1
DERMATOLOGY		
Clinical & Laboratory Dermatology	1	1.0
Dermatology	22	16.1
EMERGENCY MEDICINE		
Emergency Medicine	169	90.4
Emergency Medicine: Pediatric	2	.7
Emergency Medicine: Sports	1	.2
Medical Toxicology (Emerg. Med.)	1	.0
INTERNAL MEDICINE (SPECIALTY)		
Cardiac Electrophysiology	9	6.9
Cardiovascular Disease	41	29.2
Critical Care Internal Medicine	31	10.5
Endocrinology Diabetes & Metabol.	15	9.8
Gastroenterology	25	18.9
Geriatric Int Med (subspecialty)	3	.0
Hematology (Internal Medicine)	5	1.5
Hematology-Oncology (IM)	22	15.6
Infectious Disease	16	9.3
Internal Medicine (subspecialty)	10	1.0
Interventional Cardiology	3	2.2
Medical Oncology	11	6.9
Nephrology	21	12.4
Pulmonary Disease	21	9.3
Radiation Oncology	13	8.8
Rheumatology	18	11.7
Sleep Medicine (IM)	9	4.6
NEUROLOGY		
Child Neurology	4	1.5

continued...

Table 15 -- VT Physicians, 2016  
Detailed Specialty List (continued)

SPECIALTY GROUP Specialty	Number of Physicians	FTEs
Clinical Neurophysiology	8	4.5
Neurology	27	18.8
Sleep Medicine (psych/neuro)	2	1.1
Vascular Neurology	4	.9
OPHTHALMOLOGY		
Ophthalmology	40	33.4
Pediatric Ophthalmology	2	1.6
PATHOLOGY		
Anatomic & Clinical Pathology	18	.
Anatomic Pathology	14	.
Blood Banking/Transfusion Medicine	2	.
Chemical Pathology	1	.
Clinical Pathology	2	.
Cytopathology	1	.
Dermatopathology (Pathology)	8	.
Forensic Pathology	2	.
Hematology (Pathology)	4	.
Medical Microbiology	1	.
Molecular Genetic Pathology	4	.
Neuropathology	2	.
Pathology	5	.
Pediatric Pathology	1	.
PEDIATRICS		
Child Abuse Medicine	1	.9
Develop-Behav Pediatrics	2	.8
Neonatal-perinatal Medicine	7	3.9
Neurodevelopmental Disabilities	2	1.1
Pediatric Cardiology	5	3.7
Pediatric Critical Care Medicine	5	4.5
Pediatric Endocrinology	2	1.7
Pediatric Gastroenterology	4	3.1
Pediatric Hematology-oncology	3	2.0
Pediatric Infectious Disease	2	.6
Pediatric Nephrology	3	2.8
Pediatric Pulmonology	3	2.3
Pediatric Rheumatology	2	.4
Pediatrics subspecialties	1	.1
PSYCHIATRY		
Addiction Psychiatry	18	8.9
Child & Adolescent Psychiatry	35	20.2
Forensic Psychiatry	2	2.0
Geriatric Psychiatry	4	2.0
Psychiatry	129	78.7
Psychiatry & Neurology	2	1.7
Psychoanalysis	6	2.4
RADIOLOGY		
Diagnostic Radiology	141	.
Neuroradiology	13	.
Nuclear Radiology	1	.
Pediatric Radiology	6	.
Radiation Oncology	2	.
Radiology	14	.
Vascular/Interventional Radiology	6	.
SURGERY: GENERAL		
	57	45.6
SURGERY: ORTHOPEDIC		
Adult Reconstructive Orthopedics	10	8.5
Hand Surgery (Orthopedic)	11	8.5

continued...

Table 15 -- VT Physicians, 2016  
Detailed Specialty List (continued)

SPECIALTY GROUP Specialty	Number of Physicians	FTEs
Orthopedic Surgery	27	20.2
Orthopedic Surgery Of The Spine	8	6.9
Orthopedic Surgery: Sports	11	8.8
Orthopedic Trauma	15	6.3
Pediatric Orthopedics	1	.9
SURGERY: OTHER		
Abdominal Surgery	6	4.9
Cardiovascular Surgery	6	4.6
Colon & Rectal Surgery	4	3.5
General Vascular Surgery	6	5.0
Neurological Surgery	8	7.1
Oral & Maxillofacial Surgery	3	2.9
Pediatric Surgery	1	1.0
Surgical Critical Care	6	4.1
Thoracic Surgery	4	1.5
URGENT CARE	9	3.4
UROLOGY		
Female Pelvic Medicine	1	1.0
Pediatric Urology	2	2.0
Urology	20	18.0
OTHER SPECIALTIES		
Acupuncture	2	.3
Addiction Medicine	17	7.5
Allergy	4	2.3
Allergy & Immunology	3	1.8
Clinical Cytogenetics	1	.5
Clinical Genetics	1	.8
Family Medicine subspecialties	1	.0
Family Medicine: Sports	9	5.8
Family Practice (subspecialty)	41	13.1
General Practice (in hospital)	1	.4
Gynecologic Oncology	3	2.7
Gynecology subspecialty	1	.1
Hand Surgery (Plastic)	1	.2
Hepatology	2	.7
Hospitalist	91	69.5
Hospitalist (non-hospital setting)	12	4.2
Hospitalist: pediatric	4	1.3
Internal Med - hospital inpatient	6	3.5
Maternal & Fetal Medicine	9	4.4
Nuclear Medicine	2	.6
Nutrition	1	.1
Ob/Gyn (subspecialty)	1	1.0
Occupational Medicine	10	5.2
Otolaryngology	16	12.0
Otology/neurotology	1	1.0
Pain Medicine (PM)	3	2.7
Palliative Care	17	7.5
Pediatric Allergy	1	.4
Pediatric Otolaryngology	2	2.0
Pediatric Rehabilitation Med	1	1.0
Pediatrics (subspecialty)	15	5.5
Physical Medicine & Rehabilitation	10	8.8
Plastic Surgery	7	4.9
Public Health & General Preventive	2	.6
Reproductive Endocrinology	8	5.8
Sleep Medicine	2	.9
Sleep Medicine (otolarynx)	1	1.0
Urogynecology	3	2.6
Unlisted Specialty	25	6.0

FTEs not calculated for pathologists, radiologists, & telemedicine (Note 3)

Table 16 -- VT Physicians, 2016  
Full Time Equivalents (FTEs) by Practice Setting by Specialty

Specialty Group	FTEs in Practice Setting					
	Office	Hospital Inpatient	Hospital E.D.	Hospital Outpatient	Health Clinic	All Others
TOTAL	561.5	158.7	89.7	397.4	110.1	67.8
PRIMARY CARE	295.1	.	.	69.2	77.3	27.1
Family Practice	131.4	.	.	17.3	51.7	9.6
Internal Medicine	64.4	.	.	14.2	14.1	17.3
Ob/Gyn	36.6	.	.	21.9	.3	.
Pediatrics	62.7	.	.	15.7	11.3	.2
SPECIALTY CARE	266.4	158.7	89.7	328.3	32.8	40.7
Anesthesiology	4.6	18.9	.	64.0	.	3.6
Emergency Medicine	.7	.1	87.1	2.0	.	1.5
Hospitalist	.8	70.7	.4	1.7	.3	1.1
Internal Medicine	56.0	11.9	.	89.9	.	4.4
Ophthalmology	27.6	.	.	7.3	.	.
Psychiatry	40.3	22.5	.9	16.5	26.8	8.9
Surgery: General	22.8	2.6	.	20.2	.	.
Surgery: Orthopedic	33.3	1.7	.6	22.0	.	2.5
Surgery: Other	10.5	2.3	.	21.6	.	.3
Other Specialties	69.9	28.0	.7	83.2	5.7	18.5

"Hospital Outpatient" includes "Hospital Inpatient and Outpatient".  
All worksites of each physician are counted in this table (Note 4).  
Pathologists, radiologists and telemedicine excluded (Note 3).

Table 17 -- VT Physicians, 2016  
Detailed Practice Settings

Practice Setting	Primary Care		Specialty Care	
	FTEs	Percent	FTEs	Percent
TOTAL	468.6	100%	916.6	100%
Community Health Center	77.3	17%	11.9	1%
Extended Care	7.4	2%	1.2	<1%
Free Clinic	1.0	<1%	.2	<1%
Home Health	1.0	<1%	.1	<1%
Hospice Care	<.05	<1%	1.9	<1%
Hospital Ambulatory Care	7.1	2%	13.2	1%
Hospital Emergency Dept	.	.	89.7	10%
Hospital In/Outpatient	28.4	6%	237.4	26%
Hospital Inpatient Dept	.	.	158.7	17%
Hospital Outpatient Dept	33.7	7%	77.7	8%
Mental Health Center	.	.	20.9	2%
Multi-Specialty Group	54.4	12%	82.5	9%
Occupational Health	.6	<1%	1.7	<1%
School or College	2.8	1%	2.5	<1%
Single-Specialty Group	191.9	41%	114.1	12%
Solo Practice	48.8	10%	69.9	8%
Urgent Care / Walk-in	.	.	15.6	2%
Veterans Administration	10.2	2%	8.4	1%
VT-Specific Telemedicine	.	.	.7	<1%
Other	4.1	1%	8.3	1%

For each practice setting, this table counts the number of active physician FTEs, separately for primary and specialty care. The percentages are based on the TOTAL line. Radiology, pathology, and telemedicine are excluded (Note 3).

Table 18 -- VT Physicians, 2016  
Practice Setting by Age

Practice Setting	Total		Number in Age Group					
			<35	35-44	45-54	55-59	60-64	65+
TOTAL, all settings	2182	(100%)	105	511	593	339	330	304
Community Health Center	116	( 5%)	7	21	28	19	20	21
Extended Care	16	( 1%)	.	4	5	1	4	2
Free Clinic	17	( 1%)	.	.	3	.	4	10
Home Health	3	( 0%)	.	1	1	.	1	.
Hospice	7	( 0%)	.	1	3	1	.	2
Hospital Ambulatory Care	30	( 1%)	1	7	9	4	3	6
Hospital Emergency Dept	140	( 6%)	12	41	33	27	20	7
Hospital In/Outpatient	418	( 19%)	23	107	124	69	55	40
Hospital Inpatient Dept	208	( 10%)	17	74	51	34	21	11
Hospital Outpatient Dept	160	( 7%)	12	42	43	17	33	13
Mental Health Center	32	( 1%)	1	5	3	5	9	9
Multi-Specialty Group	177	( 8%)	4	41	40	31	32	29
Occupational Health	5	( 0%)	.	.	1	2	2	.
School or College	8	( 0%)	.	2	4	1	1	.
Single-Specialty Group	393	( 18%)	17	78	130	57	49	62
Solo Practice	162	( 7%)	1	9	21	31	41	59
Urgent Care / Walk-in	50	( 2%)	.	10	17	6	6	11
Veterans Administration	34	( 2%)	1	6	12	5	1	9
VT-Specific Telemedicine	44	( 2%)	2	12	11	11	8	.
Other Telemedicine	122	( 6%)	7	41	40	14	14	6
Other	40	( 2%)	.	9	14	4	6	7

Each physician is counted once in this table, in their main practice setting.

See Note 1 for a description of the calculation of age.



Table 19 -- VT Physicians, 2016  
Average Patient Care Hours per Week,  
by Provider Specialty and Age

Main Specialty	Total	Average Patient Care Hours per Week					% Working Full Time (%)
		All Ages	Age < 45	Age 45-54	Age 55-64	Age 65+	
ALL SPECIALTIES	1886	33	35	34	35	25	41%
PRIMARY CARE	636	33	35	34	34	27	38%
Family Practice	286	33	34	32	34	29	34%
Internal Medicine	162	31	30	33	34	25	35%
Ob/Gyn	71	42	48	44	40	23	62%
Pediatrics	117	32	33	34	34	25	37%
SPECIALTY CARE	1250	33	35	33	35	25	43%
Anesthesiology	105	40	47	39	39	37	70%
Dermatology	22	34	32	35	46	25	41%
Emergency Medicine	152	25	24	25	26	16	12%
Hospitalist	92	36	36	35	41	29	53%
Internal Medicine	229	32	34	30	38	22	42%
Pediatrics	40	30	34	33	23	28	38%
Neurology	41	29	33	22	35	21	32%
Ophthalmology	40	39	43	43	38	27	65%
Psychiatry	171	29	33	25	29	29	28%
Surgery: General	54	43	45	52	43	28	69%
Surgery: Orthopedic	81	38	47	37	39	22	64%
Surgery: Other	40	47	49	46	54	27	73%
Urology	23	47	41	43	62	.	74%
Urgent Care	6	19	.	9	.	.	17%
Other Specialties	154	29	31	32	31	17	36%

Average hours based on less than 3 people are suppressed.

'Full Time' is defined as 40 (or more) hours/week, 48 weeks/year, of direct patient care in Vermont (excluding teaching, administration and research - see Note 15).

See Note 1 for a description of the calculation of age.

Pathologists and radiologists and telemedicine excluded (see Note 3).

Table 20 -- VT Physicians, 2016  
Plan to Retire, Leave, or Reduce Hours Within 12 Months

Specialty	Total Physicians	Plan to Retire or Leave VT (%)	Plan to Reduce Hours (%)
TOTAL	2009	5%	8%
PRIMARY CARE	636	5%	9%
Family Practice	286	5%	12%
Internal Medicine	162	9%	6%
Ob/Gyn	71	3%	6%
Pediatrics	117	4%	8%
SPECIALTY CARE	1373	4%	8%
Anesthesiology	105	4%	12%
Dermatology	22	5%	18%
Emergency Medicine	149	4%	12%
Hospitalist	92	3%	9%
Internal Medicine	229	6%	4%
Pediatrics	40	0%	10%
Neurology	39	3%	8%
Ophthalmology	40	8%	8%
Pathology	52	6%	2%
Psychiatry	170	4%	8%
Radiology	77	3%	3%
Surgery: General	54	7%	8%
Surgery: Orthopedic	81	5%	4%
Surgery: Other	40	5%	5%
Urology	23	4%	9%
Urgent Care	6	0%	33%
Other Specialties	154	1%	8%

All telemedicine & locum tenens physicians are excluded from this table.

Physicians were asked if they plan to retire, or leave their Vermont practice, within the next 12 months, and, separately, whether they plan to reduce their patient care hours in Vermont within the next 12 months. 62 physicians (3%) answered 'yes' to both questions.

Physicians who indicated they planned to retire or leave Vermont were excluded from the numerator for the percentage planning to reduce hours. Physicians who did not answer the question on retirement were excluded from calculation of the percentage planning to retire or leave Vermont. Physicians who did not answer the question on reducing hours were excluded from calculation of the percentage planning to reduce hours.

See the next page for similar tabulation with FTEs rather than counts.

Table 21 -- VT Physicians, 2016  
Plan to Retire, Leave, or Reduce Hours Within 12 Months

Specialty	FTEs	Plan to Retire or Leave VT (%)	Plan to Reduce Hours (%)
TOTAL	1385.3	4%	8%
PRIMARY CARE	468.6	5%	9%
Family Practice	210.0	4%	11%
Internal Medicine	110.0	8%	7%
Ob/Gyn	58.8	2%	7%
Pediatrics	89.9	4%	7%
SPECIALTY CARE	915.9	4%	7%
Anesthesiology	91.1	4%	10%
Dermatology	17.1	5%	17%
Emergency Medicine	91.2	4%	11%
Hospitalist	75.0	5%	8%
Internal Medicine	162.1	5%	4%
Pediatrics	27.7	0%	12%
Neurology	26.7	3%	5%
Ophthalmology	34.9	5%	8%
Psychiatry	115.6	3%	8%
Surgery: General	45.6	6%	6%
Surgery: Orthopedic	60.1	5%	4%
Surgery: Other	34.6	6%	3%
Urology	21.0	5%	8%
Urgent Care	3.4	0%	6%
Other Specialties	110.0	2%	7%

All telemedicine & locum tenens physicians are excluded from this table. Percentages here are of the FTEs, not physicians nor sites.

Physicians were asked if they plan to retire, or leave their Vermont practice, within the next 12 months, and, separately, whether they plan to reduce their patient care hours in Vermont within the next 12 months. 37.6 FTE physicians (3%) answered 'yes' to both questions.

Physicians who indicated they planned to retire or leave Vermont were excluded from the numerator for the percentage planning to reduce hours. Physicians who did not answer the question on retirement were excluded from calculation of the percentage planning to retire or leave Vermont. Physicians who did not answer the question on reducing hours were excluded from calculation of the percentage planning to reduce hours.

See preceding page for similar tabulation with counts rather than FTEs.

Table 22 -- VT Physicians, 2016  
Practice Availability by Specialty - Numbers

Specialty	Physicians	Accept New Patients	Participate in Medicaid	Accept New Medicaid Patients	Participate in Medicare	Accept New Medicare Patients
		(%)	(%)	(%)	(%)	(%)
TOTAL	1377	91%	97%	87%	98%	86%
PRIMARY CARE	581	84%	98%	78%	98%	75%
Family Practice	263	81%	96%	73%	98%	76%
Internal Medicine	131	67%	98%	60%	98%	63%
Ob/Gyn	70	100%	100%	99%	100%	94%
Pediatrics	117	97%	99%	97%	n.a.	n.a.
SPECIALTY CARE	796	97%	96%	93%	98%	94%
Anesthesiology	80	100%	100%	100%	100%	96%
Dermatology	21	95%	80%	70%	100%	95%
Internal Medicine	197	98%	100%	98%	100%	96%
Pediatrics	25	96%	100%	96%	n.a.	n.a.
Neurology	39	95%	97%	92%	100%	94%
Ophthalmology	40	100%	100%	98%	100%	95%
Psychiatry	124	89%	90%	79%	92%	83%
Surgery: General	51	100%	100%	100%	100%	98%
Surgery: Orthopedic	63	100%	100%	100%	100%	98%
Surgery: Other	35	100%	100%	100%	100%	100%
Urology	23	100%	100%	100%	100%	100%
Other Specialties	98	97%	89%	87%	87%	86%

Pathologists, radiologists, and emergency medicine are excluded from this table. See Note 10 regarding tabulation of availability.

Only office settings are included (see Note 11).

Physicians were asked if they accept new patients and if they participate in Medicaid and Medicare for each site where they practice. In this table each physician is counted once, in his or her main specialty. Only sites where the physician works in his or her main specialty are included. A physician is counted as accepting new patients if they accept new patients at any site, and as participating in Medicaid or Medicare if they participate at any site.

Denominators for percentages do not include unknowns.

See the next page for similar tabulation with FTEs rather than counts.

Table 23 -- VT Physicians, 2016  
Practice Availability by Specialty - FTEs

Specialty	FTEs	Accept New Patients	Participate in Medicaid	Accept New Medicaid Patients	Participate in Medicare	Accept New Medicare Patients
		(%)	(%)	(%)	(%)	(%)
TOTAL	1060.8	93%	98%	88%	98%	89%
PRIMARY CARE	442.5	86%	98%	80%	99%	78%
Family Practice	200.4	84%	97%	76%	98%	79%
Internal Medicine	93.7	68%	100%	59%	99%	66%
Ob/Gyn	58.8	100%	100%	99%	100%	95%
Pediatrics	89.6	99%	99%	98%	n.a.	n.a.
SPECIALTY CARE	618.2	98%	97%	95%	98%	95%
Anesthesiology	68.6	100%	100%	100%	100%	97%
Dermatology	16.4	94%	83%	70%	100%	94%
Internal Medicine	145.8	99%	100%	99%	100%	98%
Pediatrics	17.5	100%	100%	100%	n.a.	n.a.
Neurology	26.7	99%	96%	95%	100%	99%
Ophthalmology	34.9	100%	100%	99%	100%	94%
Psychiatry	82.2	88%	92%	80%	94%	83%
Surgery: General	43.0	100%	100%	100%	100%	99%
Surgery: Orthopedic	55.3	100%	100%	100%	100%	98%
Surgery: Other	32.0	100%	100%	100%	97%	97%
Urology	21.0	100%	100%	100%	100%	100%
Other Specialties	74.8	97%	93%	90%	91%	90%

See Note 10 regarding tabulation of availability.  
Only office settings are included (Note 11).  
Each site a physician practices in is counted, weighed by FTEs.  
Pathologists, radiologists, and emergency medicine are excluded here.  
Denominators for percentages do not include unknowns.

See preceding page for similar tabulation with counts rather than FTEs.

Table 24 -- VT Physicians, 2016  
Practice Availability by County - FTEs

County	FTEs	Accept New Patients	Accept New Medicaid Patients	Accept New Medicare Patients
		(%)	(%)	(%)
STATEWIDE TOTAL				
Primary Care	442.5	86%	80%	78%
Specialists	618.2	98%	95%	95%
Addison County				
Primary Care	23.5	89%	89%	85%
Specialists	14.5	100%	98%	99%
Bennington County				
Primary Care	28.7	89%	85%	86%
Specialists	32.5	97%	97%	97%
Caledonia County				
Primary Care	20.9	80%	77%	71%
Specialists	21.3	99%	94%	87%
Chittenden County				
Primary Care	141.3	80%	71%	70%
Specialists	318.1	98%	94%	95%
Essex County				
Primary Care	1.8	66%	66%	61%
Specialists	.			
Franklin County				
Primary Care	26.1	90%	88%	73%
Specialists	22.6	100%	100%	100%
Grand Isle County				
Primary Care	1.7	100%	100%	100%
Specialists	.			
Lamoille County				
Primary Care	17.7	92%	79%	87%
Specialists	15.2	100%	99%	94%
Orange County				
Primary Care	16.5	99%	93%	95%
Specialists	12.1	100%	99%	99%
Orleans County				
Primary Care	13.4	100%	100%	100%
Specialists	15.8	100%	100%	100%
Rutland County				
Primary Care	35.1	95%	83%	88%
Specialists	51.3	99%	97%	99%
Washington County				
Primary Care	43.7	78%	78%	75%
Specialists	52.5	94%	92%	90%
Windham County				
Primary Care	36.9	83%	79%	78%
Specialists	31.6	97%	97%	97%
Windsor County				
Primary Care	35.2	90%	88%	83%
Specialists	31.0	93%	86%	85%

Percentages here are of the FTEs, not physicians nor sites.  
Only office settings are included (see Note 11).  
Pathologists, radiologists, and emergency medicine excluded.  
See Note 10 regarding tabulation of availability.

Table 25 -- VT Physicians, 2016  
Main and Secondary Specialties

Specialty	Main Specialty		Secondary Specialty	
	Number	FTE	Number	FTE
TOTAL	2182	1364.0	117	21.2
PRIMARY CARE	636	466.0	19	2.6
Family Practice	286	209.0	8	1.0
Internal Medicine	162	109.6	3	.3
Ob/Gyn	71	58.5	4	.3
Pediatrics	117	88.9	4	1.0
SPECIALTY CARE	1546	898.0	98	18.6
Anesthesiology	105	91.1	.	.
Dermatology	23	17.1	.	.
Emergency Medicine	167	90.4	5	.9
Hospitalist	92	72.2	15	2.8
Internal Medicine	246	159.6	11	2.5
Pediatrics	40	27.6	2	.1
Neurology	44	26.8	1	<.05
Ophthalmology	41	34.6	1	.3
Pathology	62	.	1	.
Psychiatry	175	115.4	2	.5
Radiology	176	.	2	.
Surgery: General	54	45.1	3	.5
Surgery: Orthopedic	81	60.1	.	.
Surgery: Other	40	34.1	4	.5
Urology	23	21.0	.	.
Urgent Care	6	2.7	3	.7
Other Specialties	171	100.2	48	9.8

For each specialty group, this table counts the number of active physicians who practice in the specialty as their main, or as a secondary (or tertiary, etc), specialty. Most physicians did not report a secondary specialty.

FTEs not computed for pathologists, radiologists and telemedicine (Note 3).

Table 26 -- VT Physicians, 2016  
Use of Email, and Perception of its Benefit

Specialty	Total Physicians	Use Email (%)	Feel it is Beneficial (%)
TOTAL	2060	49%	40%
PRIMARY CARE	636	66%	49%
Family Practice	286	73%	55%
Internal Medicine	162	66%	47%
Ob/Gyn	71	44%	32%
Pediatrics	117	64%	50%
SPECIALTY CARE	1424	41%	36%
Anesthesiology	105	16%	22%
Dermatology	22	59%	45%
Emergency Medicine	152	9%	27%
Hospitalist	92	10%	25%
Internal Medicine	229	67%	45%
Pediatrics	40	60%	54%
Neurology	41	73%	39%
Ophthalmology	40	41%	20%
Pathology	59	39%	45%
Psychiatry	171	53%	48%
Radiology	115	31%	40%
Surgery: General	54	28%	25%
Surgery: Orthopedic	81	42%	31%
Surgery: Other	40	43%	30%
Urology	23	70%	30%
Urgent Care	6	17%	50%
Other Specialties	154	47%	39%

Excludes telemedicine.

Physicians were asked if they use email (or other electronic text-based methods) for two-way communication with some of their patients, and, separately, whether they feel that these electronic methods improve, or could improve, their engagement or communication with their patients.

20 physicians (1%) did not answer the first question.

433 physicians said 'no, although my practice offers this option'.

615 physicians said 'no, my practice does not offer this option'.

646 physicians (32%) answered 'yes' to both questions.

Physicians who answered 'my practice does not offer this option' were included in the denominator of the percentage using email.

Physicians who answered 'not sure' were treated as 'no' in the calculation of the percentage feeling that email is beneficial.



# Distribution of Physicians by Health Related Geographical Regions:

Health Care Areas  
Local Health Districts



Table 27 -- VT Physicians, 2016  
Age by Health Care Area

Health Care Area	Total	Number in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL								
Total	2182	105	511	593	339	330	304	29%
Primary Care	636	37	127	166	87	108	111	34%
Specialists	1546	68	384	427	252	222	193	27%
Barre								
Primary Care	56	4	14	15	3	10	10	36%
Specialists	110	6	30	27	16	15	16	28%
Bennington								
Primary Care	44	2	7	8	5	11	11	50%
Specialists	85	3	18	32	13	10	9	22%
Brattleboro								
Primary Care	43	2	7	10	4	10	10	47%
Specialists	154	7	31	46	19	25	26	33%
Burlington								
Primary Care	213	17	51	61	30	32	22	25%
Specialists	613	28	174	145	106	82	78	26%
Middlebury								
Primary Care	36	2	9	15	3	4	3	19%
Specialists	31	0	6	9	6	8	2	32%
Morrisville								
Primary Care	28	1	4	7	3	5	8	46%
Specialists	31	0	4	10	4	5	8	42%
Newport								
Primary Care	21	2	4	7	2	4	2	29%
Specialists	45	0	10	13	12	4	6	22%
Randolph								
Primary Care	54	2	8	12	5	10	17	50%
Specialists	74	2	17	22	13	11	9	27%
Rutland								
Primary Care	44	2	8	11	12	5	6	25%
Specialists	112	6	21	34	23	15	13	25%
Springfield								
Primary Care	19	2	1	4	3	2	7	47%
Specialists	38	1	4	7	6	9	11	53%
St. Albans								
Primary Care	28	0	6	7	5	8	2	36%
Specialists	45	2	9	15	8	10	1	24%
St. Johnsbury								
Primary Care	25	0	3	6	4	5	7	48%
Specialists	45	4	8	15	6	9	3	27%
Upper Valley								
Primary Care	9	0	3	1	4	0	1	11%
Specialists	3	0	0	1	2	0	0	0%
Windsor								
Primary Care	16	1	2	2	4	2	5	44%
Specialists	31	2	7	9	4	4	5	29%

Each physician is counted once in this table, in their main specialty group, and, independently, in their main service area (see Note 2). Telemedicine is only counted in the statewide totals. See Appendices A and F for Health Care Areas definition. See the next page for similar tabulation with FTEs rather than counts.

Table 28 -- VT Physicians, 2014  
FTEs by Age by Health Care Area

Health Care Area	Total	FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL								
Total	1385.3	71.4	325.5	365.3	245.2	208.9	169.0	27%
Primary Care	468.6	29.6	96.7	127.1	71.5	76.0	67.8	31%
Specialists	916.6	41.9	228.8	238.2	173.6	132.9	101.1	26%
Barre								
Primary Care	45.5	3.1	11.8	12.5	3.0	7.7	7.4	33%
Specialists	85.1	5.1	25.9	20.2	13.0	11.6	9.4	25%
Bennington								
Primary Care	33.5	1.9	6.1	6.3	4.6	7.2	7.3	43%
Specialists	55.5	2.9	10.5	20.1	9.3	8.6	4.1	23%
Brattleboro								
Primary Care	31.9	1.3	5.7	8.1	3.2	6.1	7.4	42%
Specialists	63.0	2.6	12.3	17.3	9.6	9.7	11.5	34%
Burlington								
Primary Care	153.1	12.5	35.6	46.5	21.4	23.3	13.7	24%
Specialists	419.3	19.6	126.6	94.2	79.5	52.5	46.9	24%
Middlebury								
Primary Care	24.5	1.9	7.3	10.6	1.8	2.1	.7	12%
Specialists	22.9	.	4.6	6.2	4.7	6.0	1.5	32%
Morrisville								
Primary Care	20.8	.9	2.6	5.5	2.8	4.1	4.9	43%
Specialists	22.6	.	3.2	7.4	4.8	2.1	5.1	32%
Newport								
Primary Care	16.5	1.8	2.3	5.9	2.0	2.7	1.8	27%
Specialists	24.5	.	4.9	8.5	4.4	3.7	3.0	27%
Randolph								
Primary Care	28.2	1.8	4.7	7.1	3.9	4.6	6.1	38%
Specialists	37.8	.4	7.7	12.8	8.7	5.8	2.5	22%
Rutland								
Primary Care	36.1	2.0	7.0	8.0	11.2	4.3	3.7	22%
Specialists	83.5	4.4	17.0	26.2	19.7	8.9	7.4	19%
Springfield								
Primary Care	16.7	1.5	.8	3.4	3.1	1.8	6.1	47%
Specialists	22.5	1.0	.2	4.0	4.7	6.0	6.6	56%
St. Albans								
Primary Care	24.2	.	5.5	7.0	3.6	6.4	1.8	34%
Specialists	36.5	1.0	8.8	9.7	7.2	9.4	.4	27%
St. Johnsbury								
Primary Care	18.8	.	3.0	3.6	3.6	4.1	4.6	46%
Specialists	28.8	3.4	5.3	8.0	4.3	5.4	2.4	27%
Upper Valley								
Primary Care	7.4	.	2.6	1.0	3.5	.	.3	4%
Specialists	1.5	.	.	<.05	1.3	<.05	.2	13%
Windsor								
Primary Care	11.5	.9	1.7	1.4	3.8	1.5	2.2	32%
Specialists	13.1	1.5	1.8	3.6	2.4	3.3	.4	28%

Pathologists and radiologists are excluded from this table (see Note 3).  
See Note 4 regarding calculation of hours and FTEs by county.  
See Appendices A and F for Health Care Areas definition.  
See preceding page for similar tabulation with counts rather than FTEs.

Table 29 -- VT Physicians, 2016  
 Numbers of Physicians, Full Time Equivalents (FTEs), and  
 Total Weekly Patient Care Hours, by Health Care Area

	Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL		1890 1385.3 62314	647 468.6 20617	1301 916.6 41697
Barre		181 130.6 5795	56 45.5 2053	130 85.1 3742
Bennington		130 89.0 3929	45 33.5 1526	88 55.5 2403
Brattleboro		169 94.8 4073	43 31.9 1323	131 63.0 2750
Burlington		777 572.5 26023	218 153.1 6715	574 419.3 19308
Middlebury		77 47.4 2089	39 24.5 1058	40 22.9 1031
Morrisville		66 43.4 1950	29 20.8 922	43 22.6 1028
Newport		62 40.9 1763	23 16.5 731	43 24.5 1032
Randolph		126 66.0 2823	55 28.2 1150	77 37.8 1673
Rutland		162 119.7 5713	45 36.1 1717	117 83.5 3996
Springfield		58 39.1 1671	21 16.7 699	37 22.5 973
St. Albans		75 60.7 2774	28 24.2 1080	50 36.5 1694
St. Johnsbury		81 47.6 2177	26 18.8 797	57 28.8 1380
Upper Valley		16 8.9 436	9 7.4 375	8 1.5 61
Windsor		47 24.6 1097	18 11.5 471	30 13.1 626

See Appendices A and F for the definition of Health Care Areas.  
 In this table physicians may be counted more than once (Note 4).  
 Pathologists and radiologists are excluded from this table (Note 3).

Table 30 -- VT Physicians, 2016  
 Numbers of Primary Care Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Health Care Area

Count FTEs Hours	PRIMARY CARE TOTAL	FAMILY	INTERNAL	OB/GYN	PEDIATRIC
STATEWIDE TOTAL	647 468.6 20617	293 210.0 9117	165 110.0 4778	75 58.8 2893	121 89.9 3829
Barre	56 45.5 2053	28 22.8 1019	16 11.1 465	6 6.0 333	6 5.6 235
Bennington	45 33.5 1526	22 15.3 687	10 6.7 316	6 4.8 240	7 6.8 284
Brattleboro	43 31.9 1323	24 17.5 731	7 5.2 209	4 3.5 154	8 5.8 230
Burlington	218 153.1 6715	85 57.4 2459	59 42.7 1867	30 22.2 1076	45 30.9 1313
Middlebury	39 24.5 1058	24 13.4 594	4 2.3 91	4 3.0 132	8 5.8 241
Morrisville	29 20.8 922	21 16.3 738	2 1.3 52	4 1.8 78	2 1.4 54
Newport	23 16.5 731	9 6.4 294	9 5.1 225	2 2.0 85	4 3.0 127
Randolph	55 28.2 1150	18 10.5 422	24 10.1 425	5 2.6 104	8 4.9 200
Rutland	45 36.1 1717	22 16.4 685	12 9.4 464	5 5.0 331	8 5.4 237
Springfield	21 16.7 699	11 9.3 404	4 3.2 127	3 1.8 73	3 2.4 95
St. Albans	28 24.2 1080	13 11.2 485	3 2.3 110	4 3.3 143	8 7.4 341
St. Johnsbury	26 18.8 797	11 6.8 272	7 5.0 206	3 2.8 142	6 4.2 177
Upper Valley	9 7.4 375	5 4.3 215	1 .8 32	1 <.05 2	3 2.3 126
Windsor	18 11.5 471	5 2.6 113	8 4.7 190	. . . .	5 4.2 168

See Appendices A and F for the definition of Health Care Areas.  
 In this table physicians may be counted more than once (Note 4).

Table 31 -- VT Physicians, 2016  
 Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Health Care Area

	Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTHES- IOLOGY	EMERGENCY MEDICINE	HOSPITALIST	INTERNAL MEDICINE	NEUROLOGY	OPHTHALM OLOGY
STATE TOTAL		1301 916.6 41697	105 91.1 4211	157 91.3 3707	107 75.0 3367	240 162.1 7444	42 26.8 1171	41 34.9 1557
Barre		130 85.1 3742	11 6.0 294	14 9.8 391	15 10.2 444	20 14.6 650	5 2.5 101	4 3.0 118
Bennington		88 55.5 2403	4 3.4 148	16 8.7 359	12 9.1 380	17 12.1 494	3 .9 37	4 3.3 140
Brattleboro		131 63.0 2750	5 3.9 171	32 11.5 462	6 3.8 191	19 6.4 315	1 1.0 40	2 1.3 54
Burlington		574 419.3 19308	56 49.5 2300	26 16.3 667	25 18.4 832	124 88.3 4154	27 16.2 701	19 15.2 674
Middlebury		40 22.9 1031	2 1.4 55	10 5.1 205	3 1.3 74	8 2.1 94	. . . . .	1 1.0 50
Morrisville		43 22.6 1028	3 2.7 131	9 5.5 223	1 1.0 47	8 2.4 101	1 1.0 50	. . . . .
Newport		43 24.5 1032	3 2.9 123	10 5.2 214	4 2.3 107	8 3.8 155	1 .8 32	2 1.3 53
Randolph		77 37.8 1673	8 5.8 235	10 5.5 219	7 3.3 158	12 2.8 127	2 .5 20	1 1.0 40
Rutland		117 83.5 3996	7 6.1 311	20 12.4 497	13 10.4 428	27 20.3 958	2 1.9 95	4 3.0 142
Springfield		37 22.5 973	5 4.2 183	2 .3 10	6 4.9 227	4 .5 21	. . . . .	1 .9 36
St. Albans		50 36.5 1694	5 3.8 183	12 8.0 335	6 3.7 166	4 1.3 60	1 .2 8	2 1.9 80
St. Johnsbury		57 28.8 1380	3 .5 20	8 3.0 122	5 2.8 156	21 6.4 277	2 1.8 86	2 2.0 82
Upper Valley		8 1.5 61	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Windsor		30 13.1 626	1 1.0 58	3 .1 4	8 3.7 158	4 1.0 39	. . . . .	1 1.0 88

(continued on next page)

Table 31 (continued) -- VT Physicians, 2016  
 Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Health Care Area

Count FTEs Hours	SPECIALTY CARE						
	TOTAL	PSYCHIATRY	GENERAL SURGERY	ORTHOP. SURGERY	OTHER SURGERY	UROLOGY	OTHER
STATE TOTAL	1301 916.6 41697	173 116.0 4941	57 45.6 2320	81 60.1 3048	44 34.6 1877	23 21.0 1088	273 158.2 6967
Barre	130 85.1 3742	28 16.4 694	7 5.7 258	8 7.2 364	1 .1 4	3 2.0 88	17 7.6 336
Bennington	88 55.5 2403	6 3.1 131	4 3.9 207	4 2.6 145	2 1.0 61	2 1.9 76	17 5.5 226
Brattleboro	131 63.0 2750	29 19.5 833	4 3.1 127	18 5.1 241	1 <.05 1	2 1.2 63	17 6.2 252
Burlington	574 419.3 19308	66 43.2 1865	14 9.0 442	25 21.6 1073	35 28.7 1550	10 8.9 473	163 104.0 4577
Middlebury	40 22.9 1031	5 2.3 98	2 2.0 103	2 2.0 121	. . . .	1 .9 36	7 4.8 196
Morrisville	43 22.6 1028	5 2.1 86	1 1.0 55	5 4.8 245	. . . .	1 .8 30	9 1.3 62
Newport	43 24.5 1032	5 1.6 64	4 3.8 164	2 1.3 56	. . . .	1 .1 8	4 1.4 57
Randolph	77 37.8 1673	19 8.6 348	3 2.1 134	2 1.3 83	3 1.6 62	1 1.0 68	12 4.4 178
Rutland	117 83.5 3996	14 7.1 321	7 5.5 364	6 6.0 323	3 1.3 81	1 1.0 65	15 8.6 412
Springfield	37 22.5 973	8 3.7 151	4 3.4 156	3 1.3 53	. . . .	1 1.0 43	3 2.3 93
St. Albans	50 36.5 1694	4 3.5 141	4 4.0 226	4 4.0 188	. . . .	2 1.0 88	8 5.1 219
St. Johnsbury	57 28.8 1380	3 2.1 84	1 1.0 40	3 3.0 156	2 2.0 118	1 1.0 40	7 3.1 201
Upper Valley	8 1.5 61	6 1.5 58	. . . .	. . . .	. . . .	. . . .	2 .1 3
Windsor	30 13.1 626	3 1.3 68	2 1.1 44	. . . .	. . . .	1 .3 10	8 3.6 157

See Appendices A and F for definition of the Health Care Areas.  
 In this table physicians may be counted more than once (Note 4).  
 Pathologists and radiologists are excluded from this table (Note 3).



Table 32 -- VT Physicians, 2016  
 Primary Care Physicians: Ratio of Full Time Equivalents  
 (FTEs) to Population, by Health Care Area

Health Care Area	FTEs	Population	FTEs per 100,000 Population	Population per FTE
STATEWIDE TOTAL	468.6	624,594	75.0	1,333
Barre	45.5	64,155	70.9	1,410
Bennington	33.5	39,140	85.6	1,168
Brattleboro	31.9	31,789	100.3	997
Burlington	153.1	177,329	86.4	1,158
Middlebury	24.5	28,468	86.0	1,163
Morrisville	20.8	30,330	68.5	1,460
Newport	16.5	27,733	59.4	1,685
Randolph	28.2	35,042	80.5	1,242
Rutland	36.1	60,026	60.2	1,661
Springfield	16.7	27,859	59.8	1,673
St. Albans	24.2	45,444	53.3	1,878
St. Johnsbury	18.8	27,818	67.6	1,479
Upper Valley	7.4	16,371	45.1	2,215
Windsor	11.5	13,090	87.8	1,139

Only primary care physicians are included in this table.  
 An FTE is defined as 40 (or more) hours/week, 48 weeks/year.  
 The FTEs are rounded to 1 decimal for display only.  
 The ratios were calculated using the unrounded values,  
 then rounded in turn to 1 decimal for display.

See Appendices A and F for the definition of Health Care Areas.

Population estimates are for July 2016, from the Census Bureau  
 (see Note 4 and Note 7).

Table 33 -- VT Physicians, 2016  
Age by Local Health District

Local Health District	Total	Number in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL								
Total	2182	105	511	593	339	330	304	29%
Primary Care	636	37	127	166	87	108	111	34%
Specialists	1546	68	384	427	252	222	193	27%
Barre								
Primary Care	55	4	14	14	3	10	10	36%
Specialists	109	5	30	27	16	15	16	28%
Bennington								
Primary Care	41	2	6	7	5	11	10	51%
Specialists	88	3	19	33	13	11	9	23%
Brattleboro								
Primary Care	46	2	8	11	4	10	11	46%
Specialists	154	7	31	46	19	25	26	33%
Burlington								
Primary Care	208	17	50	60	29	31	21	25%
Specialists	613	29	174	145	106	82	77	26%
Middlebury								
Primary Care	36	2	9	15	3	4	3	19%
Specialists	32	0	7	9	6	8	2	31%
Morrisville								
Primary Care	28	1	4	7	3	5	8	46%
Specialists	26	0	3	8	4	4	7	42%
Newport								
Primary Care	21	2	4	7	2	4	2	29%
Specialists	45	0	10	13	12	4	6	22%
Rutland								
Primary Care	44	2	8	11	12	5	6	25%
Specialists	109	6	20	33	23	14	13	25%
Springfield								
Primary Care	28	3	1	6	6	4	8	43%
Specialists	68	3	10	16	10	13	16	43%
St. Albans								
Primary Care	34	0	7	9	6	9	3	35%
Specialists	46	2	9	15	8	10	2	26%
St. Johnsbury								
Primary Care	29	0	4	6	7	5	7	41%
Specialists	49	4	8	17	6	10	4	29%
Wht Rvr Jct								
Primary Care	66	2	12	13	7	10	22	48%
Specialists	78	2	18	23	15	11	9	26%

Each physician is counted once in this table, in their main specialty group, and, independently, in their main district (see Note 2).

Telemedicine is only counted in the statewide totals which also include 7 physicians with undefined locations.

See Appendices A and G for definition of the Local Health Districts.

See the next page for similar tabulation with FTEs rather than counts.

Table 34 -- VT Physicians, 2016  
FTEs by Age by Local Health District

District	Total	FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL								
Total	1385.3	71.4	325.5	365.3	245.2	208.9	169.0	27%
Primary Care	468.6	29.6	96.7	127.1	71.5	76.0	67.8	31%
Specialists	916.6	41.9	228.8	238.2	173.6	132.9	101.1	26%
Barre								
Primary Care	45.5	3.1	11.8	12.5	3.0	7.7	7.4	33%
Specialists	85.1	5.1	25.9	20.2	13.0	11.6	9.4	25%
Bennington								
Primary Care	31.2	1.9	5.1	5.4	4.6	7.2	6.9	45%
Specialists	55.4	2.9	10.5	20.0	9.3	8.6	4.1	23%
Brattleboro								
Primary Care	34.1	1.3	6.7	9.0	3.2	6.1	7.8	41%
Specialists	63.1	2.6	12.3	17.3	9.6	9.8	11.5	34%
Burlington								
Primary Care	148.8	12.5	34.9	45.5	20.9	22.3	12.7	24%
Specialists	419.2	19.6	126.6	94.2	79.5	52.5	46.8	24%
Middlebury								
Primary Care	24.5	1.9	7.3	10.6	1.8	2.1	.7	12%
Specialists	22.9	.	4.6	6.2	4.7	6.0	1.5	32%
Morrisville								
Primary Care	20.8	.9	2.6	5.5	2.8	4.1	4.9	43%
Specialists	22.6	.	3.2	7.4	4.8	2.1	5.1	32%
Newport								
Primary Care	16.5	1.8	2.3	5.9	2.0	2.7	1.8	27%
Specialists	24.5	.	4.9	8.5	4.4	3.7	3.0	27%
Rutland								
Primary Care	36.1	2.0	7.0	8.0	11.2	4.3	3.7	22%
Specialists	83.5	4.4	17.0	26.2	19.7	8.9	7.4	19%
Springfield								
Primary Care	23.6	2.4	.8	4.9	5.9	3.1	6.6	41%
Specialists	35.1	2.5	1.8	7.4	7.1	9.3	7.0	46%
St. Albans								
Primary Care	28.5	.	6.2	8.0	4.1	7.4	2.8	36%
Specialists	36.6	1.0	8.8	9.7	7.2	9.4	.4	27%
St. Johnsbury								
Primary Care	22.1	.	3.6	3.6	6.3	4.1	4.6	39%
Specialists	28.9	3.4	5.3	8.0	4.4	5.4	2.4	27%
Wht Rvr Jct								
Primary Care	36.8	1.8	8.4	8.1	5.7	4.8	8.1	35%
Specialists	39.7	.4	7.9	13.0	10.0	5.8	2.7	21%

Pathologists and radiologists are excluded from this table (see Note 3).  
See Note 4 regarding calculation of hours and FTEs by county.

See Appendices A and G for definition of the Local Health Districts.

See preceding page for similar tabulation with counts rather than FTEs.

Table 35 -- VT Physicians, 2016  
 Numbers of Physicians, Full Time Equivalent (FTEs), and  
 Total Weekly Patient Care Hours, by Local Health District

	Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL		1890 1385.3 62314	647 468.6 20617	1301 916.6 41697
Barre		181 130.6 5795	56 45.5 2053	130 85.1 3742
Bennington		126 86.6 3833	42 31.2 1435	86 55.4 2398
Brattleboro		173 97.2 4170	46 34.1 1414	132 63.1 2755
Burlington		770 568.0 25833	212 148.8 6527	573 419.2 19306
Middlebury		77 47.4 2089	39 24.5 1058	40 22.9 1031
Morrisville		66 43.4 1950	29 20.8 922	43 22.6 1028
Newport		62 40.9 1763	23 16.5 731	43 24.5 1032
Rutland		162 119.7 5713	45 36.1 1717	117 83.5 3996
Springfield		93 58.7 2566	30 23.6 987	64 35.1 1579
St. Albans		82 65.1 2964	34 28.5 1268	51 36.6 1697
St. Johnsbury		85 51.0 2346	30 22.1 964	58 28.9 1382
Wht Rvr Jct		145 76.6 3293	68 36.8 1541	83 39.7 1752

In this table physicians may be counted more than once (Note 4).  
 Pathologists and radiologists are excluded from this table (Note 3).

Table 36 -- VT Physicians, 2016  
 Numbers of Primary Care Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Local Health District

Count FTEs Hours	PRIMARY CARE TOTAL	FAMILY	INTERNAL	OB/GYN	PEDIATRIC
STATEWIDE TOTAL	647 468.6 20617	293 210.0 9117	165 110.0 4778	75 58.8 2893	121 89.9 3829
Barre	56 45.5 2053	28 22.8 1019	16 11.1 465	6 6.0 333	6 5.6 235
Bennington	42 31.2 1435	19 13.0 596	10 6.7 316	6 4.8 240	7 6.8 284
Brattleboro	46 34.1 1414	27 19.7 822	7 5.2 209	4 3.5 154	8 5.8 230
Burlington	212 148.8 6527	82 55.0 2366	56 40.7 1772	30 22.2 1076	45 30.9 1313
Middlebury	39 24.5 1058	24 13.4 594	4 2.3 91	4 3.0 132	8 5.8 241
Morrisville	29 20.8 922	21 16.3 738	2 1.3 52	4 1.8 78	2 1.4 54
Newport	23 16.5 731	9 6.4 294	9 5.1 225	2 2.0 85	4 3.0 127
Rutland	45 36.1 1717	22 16.4 685	12 9.4 464	5 5.0 331	8 5.4 237
Springfield	30 23.6 987	13 11.2 490	8 5.7 229	3 1.8 73	6 4.9 195
St. Albans	34 28.5 1268	16 13.5 577	6 4.3 205	4 3.3 143	8 7.4 341
St. Johnsbury	30 22.1 964	15 10.1 437	7 5.0 206	4 2.8 144	6 4.2 177
Wht Rvr Jct	68 36.8 1541	21 12.2 498	29 13.1 545	5 2.6 104	13 8.9 394

In this table physicians may be counted more than once (Note 4).

Table 37 -- VT Physicians, 2016  
 Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Local Health District

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTHES- IOLOGY	EMERGENCY MEDICINE	HOSPITALIST	INTERNAL MEDICINE	NEUROLOGY	OPHTHALM OLOGY
STATE TOTAL	1301 916.6 41697	105 91.1 4211	157 91.3 3707	107 75.0 3367	240 162.1 7444	42 26.8 1171	41 34.9 1557
Barre	130 85.1 3742	11 6.0 294	14 9.8 391	15 10.2 444	20 14.6 650	5 2.5 101	4 3.0 118
Bennington	86 55.4 2398	4 3.4 148	15 8.6 356	12 9.1 380	17 12.1 494	3 .9 37	4 3.3 140
Brattleboro	132 63.1 2755	5 3.9 171	32 11.5 465	6 3.8 191	19 6.4 315	1 1.0 40	2 1.3 54
Burlington	573 419.2 19306	56 49.5 2300	26 16.3 667	25 18.4 832	124 88.3 4154	27 16.2 701	19 15.2 674
Middlebury	40 22.9 1031	2 1.4 55	10 5.1 205	3 1.3 74	8 2.1 94	. . . .	1 1.0 50
Morrisville	43 22.6 1028	3 2.7 131	9 5.5 223	1 1.0 47	8 2.4 101	1 1.0 50	. . . .
Newport	43 24.5 1032	3 2.9 123	10 5.2 214	4 2.3 107	8 3.8 155	1 .8 32	2 1.3 53
Rutland	117 83.5 3996	7 6.1 311	20 12.4 497	13 10.4 428	27 20.3 958	2 1.9 95	4 3.0 142
Springfield	64 35.1 1579	6 5.2 241	4 .4 14	14 8.6 385	8 1.5 60	. . . .	2 1.9 124
St. Albans	51 36.6 1697	5 3.8 183	12 8.0 335	6 3.7 166	4 1.3 60	1 .2 8	2 1.9 80
St. Johnsbury	58 28.9 1382	3 .5 20	8 3.0 122	5 2.8 156	21 6.4 277	2 1.8 86	2 2.0 82
Wht Rvr Jct	83 39.7 1752	8 5.8 235	10 5.5 219	7 3.3 158	12 2.8 127	2 .5 20	1 1.0 40

(continued on next page)

Table 37 (continued) -- VT Physicians, 2016  
 Numbers of Specialty Care Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Local Health District

	Count	SPECIALTY CARE						
	FTEs Hours	TOTAL	PSYCHIATRY	GENERAL SURGERY	ORTHOP. SURGERY	OTHER SURGERY	UROLOGY	OTHER
STATE TOTAL		1301	173	57	81	44	23	273
		916.6	116.0	45.6	60.1	34.6	21.0	158.2
		41697	4941	2320	3048	1877	1088	6967
Barre		130	28	7	8	1	3	17
		85.1	16.4	5.7	7.2	.1	2.0	7.6
		3742	694	258	364	4	88	336
Bennington		86	6	4	4	2	2	16
		55.4	3.1	3.9	2.6	1.0	1.9	5.5
		2398	131	207	145	61	76	223
Brattleboro		132	29	4	18	1	2	18
		63.1	19.5	3.1	5.1	<.05	1.2	6.3
		2755	833	127	241	1	63	255
Burlington		573	66	14	25	35	10	162
		419.2	43.2	9.0	21.6	28.7	8.9	103.9
		19306	1865	442	1073	1550	473	4574
Middlebury		40	5	2	2	.	1	7
		22.9	2.3	2.0	2.0	.	.9	4.8
		1031	98	103	121	.	36	196
Morrisville		43	5	1	5	.	1	9
		22.6	2.1	1.0	4.8	.	.8	1.3
		1028	86	55	245	.	30	62
Newport		43	5	4	2	.	1	4
		24.5	1.6	3.8	1.3	.	.1	1.4
		1032	64	164	56	.	8	57
Rutland		117	14	7	6	3	1	15
		83.5	7.1	5.5	6.0	1.3	1.0	8.6
		3996	321	364	323	81	65	412
Springfield		64	9	6	3	.	2	11
		35.1	4.5	4.5	1.3	.	1.3	5.9
		1579	199	200	53	.	53	250
St. Albans		51	4	4	4	.	2	9
		36.6	3.5	4.0	4.0	.	1.0	5.2
		1697	141	226	188	.	88	222
St. Johnsbury		58	3	1	3	2	1	8
		28.9	2.1	1.0	3.0	2.0	1.0	3.2
		1382	84	40	156	118	40	203
Wht Rvr Jct		83	24	3	2	3	1	13
		39.7	10.5	2.1	1.3	1.6	1.0	4.5
		1752	427	134	83	62	68	179

In this table physicians may be counted more than once (Note 4).  
 Pathologists and radiologists are excluded from this table (Note 3).  
 See Appendices A and G for definition of the Local Health Districts.

Table 38 -- VT Physicians, 2016  
 Primary Care Physicians: Ratio of Full Time Equivalents  
 (FTEs) to Population, by Local Health District

District	FTEs	Population	FTEs per 100,000 Population	Population per FTE
STATEWIDE TOTAL	468.6	624,594	75.0	1,333
Barre	45.5	65,700	69.3	1,444
Bennington	31.2	36,191	86.3	1,159
Brattleboro	34.1	35,291	96.8	1,033
Burlington	148.8	161,501	92.1	1,085
Middlebury	24.5	36,825	66.5	1,504
Morrisville	20.8	31,216	66.5	1,503
Newport	16.5	27,733	59.4	1,685
Rutland	36.1	59,474	60.8	1,646
Springfield	23.6	33,055	71.4	1,400
St. Albans	28.5	55,834	51.1	1,956
St. Johnsbury	22.1	34,012	65.0	1,538
Wht Rvr Jct	36.8	47,762	77.1	1,297

Only primary care physicians are included in this table.  
 An FTE is defined as 40 (or more) hours/week, 48 weeks/year.  
 The FTEs are rounded to 1 decimal for display only.  
 The ratios were calculated using the unrounded values,  
 then rounded in turn to 1 decimal for display.

Population estimates are for July 2016, from the Census Bureau  
 (see Note 4 and Note 7.)



# Special Groups of Physicians

Locum Tenens

Telemedicine

Physicians Working Few Hours



Table 39 -- VT Physicians, 2016  
Summary of Active Physicians

	locum tenens	tele- medicine	<4 hrs / week	all others
TOTAL	107	122	117	1943
Medical Doctor (MD)	97	117	114	1851
Doctor of Osteopathy (DO)	10	5	3	92
Main specialty:				
Primary Care Total	13	.	23	613
Family Practice	5	.	9	277
Primary Care Internal Medicine	2	.	12	150
Obstetrics and Gynecology	5	.	2	69
Pediatrics	1	.	.	117
Specialty Care Total	94	122	94	1330
Anesthesiology	7	.	5	100
Dermatology	.	1	1	21
Emergency Medicine	32	15	14	138
Hospitalist	8	.	2	90
Internal Medicine Specialties	7	17	19	210
Pediatrics	.	.	5	35
Neurology	.	3	2	39
Ophthalmology	.	1	1	39
Pathology	3	3	.	59
Psychiatry	14	4	10	161
Radiology	6	61	.	115
Surgery: General	3	.	.	54
Surgery: Orthopedic	6	.	14	67
Surgery: Other	.	.	1	39
Urology	3	.	.	23
Urgent Care	.	.	2	4
Other Specialties	5	17	18	136
Age groups:				
less than 35	10	7	0	98
35 - 44	27	41	20	450
45 - 54	23	40	36	517
55 - 59	13	14	12	313
60 - 64	11	14	19	297
65 and up	23	6	30	268
Gender:				
Male	68	78	90	1176
Female	39	44	27	767
Patient care hours:				
40 or more hours/week	6	.	0	780
30 to 39 hours/week	6	.	0	432
10 to 30 hours/week	25	.	0	448
less than 10 hours/week	61	.	117	109
hours n/a	9	122	0	174

Hours not computed for pathologists, radiologists and telemedicine.  
The Locum Tenens physicians are excluded from most tables in this report.  
The telemedicine physicians, along with pathologists and radiologists,  
are excluded from tables reporting hours or FTEs.  
See next page for similar tabulation by FTEs rather than counts.

Table 40 -- VT Physicians, 2016  
FTEs of Active Physicians

	locum tenens	tele- medicine	<4 hrs / week	all others
TOTAL	27.9	.	4.5	1380.8
Medical Doctor (MD)	26.6	.	4.4	1310.6
Doctor of Osteopathy (DO)	1.3	.	.1	70.2
Main specialty:				
Primary Care Total	4.8	.	.9	467.8
Family Practice	.9	.	.4	209.6
Primary Care Internal Medicine	.7	.	.4	109.6
Obstetrics and Gynecology	2.8	.	.1	58.7
Pediatrics	.3	.	.	89.9
Specialty Care Total	23.1	.	3.6	913.0
Anesthesiology	1.1	.	.3	90.7
Dermatology	.	.	<.05	17.0
Emergency Medicine	7.6	.	.5	90.8
Hospitalist	3.9	.	.1	74.9
Internal Medicine Specialties	.7	.	.6	161.4
Pediatrics	.	.	.2	27.5
Neurology	.	.	.1	26.7
Ophthalmology	.	.	.1	34.8
Psychiatry	5.1	.	.4	115.6
Surgery: General	.7	.	.	45.6
Surgery: Orthopedic	2.0	.	.5	59.7
Surgery: Other	.	.	<.05	34.6
Urology	.4	.	.	21.0
Urgent Care	.	.	.1	3.3
Other Specialties	1.7	.	.7	109.4
Age groups:				
less than 35	2.4	.	<.05	71.4
35 - 44	5.6	.	.8	324.7
45 - 54	5.2	.	1.3	364.0
55 - 59	3.8	.	.4	244.7
60 - 64	2.3	.	.8	208.1
65 and up	8.4	.	1.2	167.8
unknown *	<.05	.	<.05	<.05
Gender:				
Male	18.3	.	3.5	834.9
Female	9.6	.	1.0	545.8
unknown *	<.05	.	<.05	<.05
Patient care hours: (excluding pathologists and radiologists)				
40 or more hours/week	6.3	.	<.05	779.9
30 to 39 hours/week	6.3	.	<.05	359.7
10 to 30 hours/week	9.9	.	<.05	224.3
less than 10 hours/week	5.4	.	4.5	16.8
hours n/a	<.05	.	<.05	<.05

Hours not computed for pathologists, radiologists and telemedicine (Note 3).  
The Locum Tenens physicians are excluded from most tables in this report.  
The telemedicine physicians, along with pathologists and radiologists,  
are excluded from tables reporting hours or FTEs.

Table 41 -- VT Locum Tenens Physicians, 2016  
 Locum Tenens - Practice Setting by Specialty

Specialty Group	Number in Practice Setting					
	Office	Hospital Inpatient	Hospital E.D.	Hospital Outpatient	Health Clinic	All Others
TOTAL	9	25	25	29	4	15
PRIMARY CARE	4	.	.	6	2	1
Family Practice	1	.	.	2	1	1
Internal Medicine	1	.	.	1	.	.
Ob/Gyn	1	.	.	3	1	.
Pediatrics	1	.	.	.	.	.
SPECIALTY CARE	5	25	25	23	2	14
Anesthesiology	.	1	.	4	.	2
Emergency Medicine	.	.	24	2	.	6
Hospitalist	.	8	.	.	.	.
Internal Medicine	1	1	.	4	.	1
Pathology	.	.	.	3	.	.
Psychiatry	.	13	.	1	.	.
Radiology	.	.	.	4	.	2
Surgery: General	1	1	.	1	.	.
Surgery: Orthopedic	2	.	.	2	.	2
Urology	.	.	1	2	.	.
Other Specialties	1	1	.	.	2	1

This table only includes Locum Tenens physicians.  
 They are excluded from other tables.

Each physician is counted once in this table, in their main specialty group, and, independently, in their main practice setting (see Note 8).

See Table 42 for a similar tabulation by FTEs rather than counts.

Table 42 -- VT Locum Tenens Physicians, 2016  
 Locum Tenens - FTEs by Practice Setting by Specialty

Specialty Group	FTEs in Practice Setting					
	Office	Hospital Inpatient	Hospital E.D.	Hospital Outpatient	Health Clinic	All Others
TOTAL	3.5	9.6	6.5	4.4	1.7	2.2
PRIMARY CARE	1.9	.	.	1.6	1.2	<.05
Family Practice	.2	.	.	.5	.2	<.05
Internal Medicine	.5	.	.	.2	.	.
Ob/Gyn	1.0	.	.	.8	1.0	.
Pediatrics	.3	.	.	<.05	.	.
SPECIALTY CARE	1.6	9.6	6.5	2.8	.5	2.2
Anesthesiology	.	.3	.	.5	.	.3
Emergency Medicine	.	.	6.3	.1	.	1.2
Hospitalist	.	3.9	<.05	.	.	.
Internal Medicine	.4	<.05	.	.3	.	<.05
Psychiatry	.	4.4	.	.4	.	.3
Surgery: General	.1	.5	.	.1	.	.
Surgery: Orthopedic	.8	.	.	1.1	.	.1
Urology	.	.	.1	.2	.	.
Other Specialties	.2	.6	.	.1	.5	.3

This table only includes Locum Tenens physicians.  
 They are excluded from other tables.

All worksites of each physician are counted in this table (Note 4).  
 Pathologists, radiologists and telemedicine excluded (Note 3).

See Table 41 for a similar tabulation by counts rather than FTEs.

Table 43 -- VT Physicians, 2016  
Physicians providing patient care less than 4 hours/week  
FTEs by Practice Setting by Specialty

Specialty Group	FTEs in Practice Setting					
	Office	Hospital Inpatient	Hospital E.D.	Hospital Outpatient	Health Clinic	All Others
TOTAL	.8	.4	.3	.7	.4	2.2
PRIMARY CARE	.2	.	.	.	.3	.4
Family Practice	.1	.	.	.	.2	.1
Internal Medicine	<.05	.	.	.	.1	.3
Ob/Gyn	<.05	.	.	.	<.05	.
SPECIALTY CARE	.6	.4	.3	.7	.1	1.8
Anesthesiology	.1	.	.	.1	.	.1
Dermatology	<.05	.	.	.	.	.
Emergency Medicine	<.05	.	.3	.	.	.3
Hospitalist	.	.1	.	.	.	.
Internal Medicine	.1	.1	.	.3	.	.3
Pediatrics	.	<.05	.	.1	.	<.05
Neurology	<.05	.	.	.1	.	.1
Ophthalmology	.1	.	.	.	.	.
Psychiatry	.1	.1	.	<.05	.1	.1
Surgery: Orthopedic	.	.	.	.	.	.5
Surgery: Other	<.05	<.05	.	.	.	.
Urgent Care	.1	.	.	.	.	<.05
Other Specialties	.1	.1	.	.1	.	.3

This table includes the 139 physicians providing patient care < 4 hours/week and who are not Locum Tenens. They are also included in the other tables.

All worksites of each physician are counted in this table (Note 4).  
Pathologists, radiologists and telemedicine excluded (Note 3).





# 2016 compared with 2014 and 2006



Table 44 -- VT Physicians, 2014 and 2016  
 Changes in Number of Physicians, Patient Care  
 Hours and Specialties, between 2014 and 2016

	2014	2016	Change	
TOTAL	1933	2182	+249	+13%
Medical Doctor (MD)	1852	2082	+230	+12%
Doctor of Osteopathy (DO)	81	100	+19	+23%
Main specialty:				
Primary Care Total	636	636	0	0%
Family Practice	285	286	+1	+0%
Primary Care Internal Medicine	163	162	-1	-1%
Obstetrics and Gynecology	68	71	+3	+4%
Pediatric Primary Care	120	117	-3	-3%
Specialty Care Total	1297	1546	+249	+19%
Anesthesiology	97	105	+8	+8%
Emergency Medicine	130	167	+37	+28%
Hospitalist	95	92	-3	-3%
Internal Medicine Specialties	192	246	+54	+28%
Neurology	32	44	+12	+38%
Ophthalmology	43	41	-2	-5%
Pathology	55	62	+7	+13%
Psychiatry	179	175	-4	-2%
Radiology	106	176	+70	+66%
Surgery: General	44	54	+10	+23%
Surgery: Orthopedic	67	81	+14	+21%
Surgery: Other	38	40	+2	+5%
Urology	21	23	+2	+10%
Other Specialties	198	240	+42	+21%
Age groups:				
less than 35	92	105	+13	+14%
35 - 44	438	511	+73	+17%
45 - 54	549	593	+44	+8%
55 - 59	350	339	-11	-3%
60 - 64	256	330	+74	+29%
65 and up	248	304	+56	+23%
Gender:				
Male	1204	1344	+140	+12%
Female	729	838	+109	+15%
Patient care hours: (excluding pathologists and radiologists)				
40 or more hours/week	782	780	-2	-0%
30 to 39 hours/week	346	432	+86	+25%
less than 30 hours/week	626	674	+48	+8%

Table 45 -- VT Physicians, 2014 vs. 2016  
 Numbers of Physicians, Full Time Equivalents (FTEs), and  
 Total Weekly Patient Care Hours, by County, in 2014 and in 2016

	2014			2016		
	Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL	TOTAL	PRIMARY CARE TOTAL
STATE TOTAL	1765 1312.9 60066	652 476.9 21255	1185 836.1 38810	1890 1385.3 62314	647 468.6 20617	1301 916.6 41697
Addison County	83 51.9 2240	40 28.1 1160	46 23.8 1080	77 47.4 2089	39 24.5 1058	40 22.9 1031
Bennington County	120 83.9 3903	43 31.9 1535	83 52.0 2368	126 86.6 3833	42 31.2 1435	86 55.4 2398
Caledonia County	72 43.4 1982	29 20.0 886	47 23.4 1096	84 49.8 2266	29 20.9 884	58 28.9 1382
Chittenden County	692 516.4 23980	210 144.0 6354	503 372.3 17627	770 568.0 25833	212 148.8 6527	573 419.2 19306
Essex County	4 2.4 112	4 2.4 112	. . . .	4 1.8 90	4 1.8 90	. . . .
Franklin County	79 63.1 2979	40 33.8 1568	42 29.3 1411	78 63.3 2891	31 26.8 1197	50 36.5 1694
Grand Isle County	2 1.1 42	2 1.1 42	. . . .	4 1.8 73	3 1.8 71	1 .1 3
Lamoille County	61 42.0 1896	23 18.5 868	44 23.5 1028	63 40.5 1834	25 18.0 809	42 22.5 1026
Orange County	57 33.9 1494	26 17.6 754	34 16.3 740	62 35.8 1626	26 16.6 743	38 19.2 883
Orleans County	56 40.5 1830	19 15.4 683	39 25.2 1147	61 39.8 1700	22 15.3 668	43 24.5 1032
Rutland County	157 114.1 5371	46 37.6 1761	114 76.6 3610	162 119.7 5713	45 36.1 1717	117 83.5 3996
Washington County	183 122.3 5417	57 45.1 1995	131 77.2 3423	181 130.6 5795	56 45.5 2053	130 85.1 3742
Windham County	158 101.0 4545	52 37.7 1665	113 63.2 2881	183 104.0 4445	52 39.0 1607	136 65.0 2839
Windsor County	171 96.3 4254	73 43.6 1872	103 52.8 2382	171 96.1 4126	70 42.4 1760	107 53.7 2366

In this table physicians may be counted more than once (Note 4).  
 Pathologists, radiologists and telemedicine are excluded from this table (Note 3).

Table 46 -- VT Physicians, 2014 vs. 2016  
 Primary Care Physician Full Time Equivalentents (FTEs) and  
 Ratio to Population, by County, in 2014 and in 2016

County	2014			2016			Change in Ratio
	FTEs	Population	FTEs per 100,000 Population	FTEs	Population	FTEs per 100,000 Population	
STATEWIDE TOTAL	476.9	626,562	76.1	468.6	624,594	75.0	-1.1
Addison County	28.1	37,009	76.0	24.5	36,959	66.3	-9.7
Bennington County	31.9	36,445	87.5	31.2	36,191	86.3	-1.2
Caledonia County	20.0	30,981	64.7	20.9	30,333	69.1	4.4
Chittenden County	144.0	160,531	89.7	148.8	161,531	92.1	2.4
Essex County	2.4	6,125	39.6	1.8	6,176	29.2	-10.4
Franklin County	33.8	48,642	69.5	26.8	48,915	54.7	-14.8
Grand Isle County	1.1	6,994	15.0	1.8	6,919	25.6	10.6
Lamoille County	18.5	25,082	73.8	18.0	25,333	70.9	-2.9
Orange County	17.6	28,859	61.0	16.6	28,919	57.3	-3.7
Orleans County	15.4	27,082	56.7	15.3	26,863	57.0	.3
Rutland County	37.6	60,086	62.5	36.1	59,310	60.9	-1.6
Washington County	45.1	58,998	76.5	45.5	58,504	77.8	1.3
Windham County	37.7	43,714	86.3	39.0	43,145	90.3	4.0
Windsor County	43.6	56,014	77.8	42.4	55,496	76.3	-1.4

Only primary care physicians are included in this table.  
 An FTE is defined as 40 (or more) hours/week, 48 weeks/year.  
 The FTEs are rounded to 1 digits for display only.  
 The ratios were calculated using the unrounded values.

Table 47 -- Physicians who Discontinued their Vermont Practice  
between 2014 and 2016 -- Age by Specialty and by Gender

	Total	Number in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	268	23	64	46	41	41	53	35%
MALES	174	10	41	24	26	27	46	42%
FEMALES	94	13	23	22	15	14	7	22%
PRIMARY CARE	85	7	12	12	18	16	20	42%
Family Practice	32	2	7	4	4	9	6	47%
Internal Medicine	27	1	2	3	9	3	9	44%
Ob/Gyn	9	2	1	1	3	2	.	22%
Pediatrics	17	2	2	4	2	2	5	41%
SPECIALTY CARE	183	16	52	34	23	25	33	32%
Anesthesiology	14	.	4	7	.	1	2	21%
Emergency Medicine	13	2	3	.	1	5	2	54%
Hospitalist	14	3	6	3	2	.	.	.
Internal Medicine	29	4	9	6	4	2	4	21%
Neurology	3	.	1	.	1	.	1	33%
Ophthalmology	8	3	2	.	1	1	1	25%
Pathology	9	.	2	1	1	2	3	56%
Psychiatry	30	1	10	2	2	6	9	50%
Radiology	7	1	3	.	3	.	.	.
Surgery: General	7	.	2	1	2	1	1	29%
Surgery: Orthopedic	10	.	3	2	.	.	5	50%
Surgery: Other	4	.	2	.	.	1	1	50%
Urology	3	.	.	1	1	.	1	33%
Other Specialties	32	2	5	11	5	6	3	28%
	Total	Percent in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	9%	24%	17%	15%	15%	20%	35%
MALES	100%	6%	24%	14%	15%	16%	26%	42%
FEMALES	100%	14%	24%	23%	16%	15%	7%	22%
PRIMARY CARE	100%	8%	14%	14%	21%	19%	24%	42%
SPECIALTY CARE	100%	9%	28%	19%	13%	14%	18%	32%

Telemedicine excluded.

See Note 1 for a description of the calculation of age.

Table 48 -- VT Physicians Active in 2016  
 who were Not Active in 2014  
 Age by Specialty and by Gender

	Total	Number in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	401	73	148	71	33	33	43	19%
MALES	241	37	80	49	25	19	31	21%
FEMALES	160	36	68	22	8	14	12	16%
PRIMARY CARE	92	26	27	14	5	10	10	22%
Family Practice	38	10	14	7	1	4	2	16%
Internal Medicine	21	3	2	4	2	4	6	48%
Ob/Gyn	18	5	6	3	1	1	2	17%
Pediatrics	15	8	5	.	1	1	.	7%
SPECIALTY CARE	309	47	121	57	28	23	33	18%
Anesthesiology	25	2	11	6	4	2	.	8%
Dermatology	6	.	4	2	.	.	.	.
Emergency Medicine	41	7	16	8	4	3	3	15%
Hospitalist	18	6	4	3	3	1	1	11%
Internal Medicine	52	10	21	6	3	4	8	23%
Pediatrics	11	3	6	2	.	.	.	.
Neurology	13	2	8	1	.	1	1	15%
Ophthalmology	5	1	4	.	.	.	.	.
Pathology	19	2	8	4	1	1	3	21%
Psychiatry	21	1	8	2	2	4	4	38%
Radiology	18	5	6	4	1	.	2	11%
Surgery: General	10	1	3	2	2	.	2	20%
Surgery: Orthopedic	22	2	5	6	4	2	3	23%
Surgery: Other	11	.	6	2	.	2	1	27%
Urology	5	1	.	2	2	.	.	.
Urgent Care	3	.	1	2	.	.	.	.
Other Specialties	29	4	10	5	2	3	5	28%

	Total	Percent in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	18%	37%	18%	8%	8%	11%	19%
MALES	100%	15%	33%	20%	10%	8%	13%	21%
FEMALES	100%	23%	43%	14%	5%	9%	8%	16%
PRIMARY CARE	100%	28%	29%	15%	5%	11%	11%	22%
SPECIALTY CARE	100%	15%	39%	18%	9%	7%	11%	18%

Telemedicine excluded.

See Note 1 for a description of the calculation of age.

Table 49 -- Physicians who Discontinued their Vermont Practice  
between 2014 and 2016  
FTE by Age by Specialty and Gender

	Total	FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	157.7	14.7	41.5	32.8	20.2	22.8	25.7	31%
MALES	101.2	6.8	27.1	15.0	12.8	15.2	24.3	39%
FEMALES	56.5	7.8	14.4	17.8	7.4	7.6	1.5	16%
PRIMARY CARE	57.9	6.5	9.9	11.6	9.5	8.5	12.0	35%
Family Practice	20.6	1.5	5.5	4.0	2.2	4.5	3.0	36%
Internal Medicine	16.1	1.0	1.4	2.8	4.0	1.8	5.2	43%
Ob/Gyn	7.2	2.0	1.3	1.0	2.0	.9	.	13%
Pediatrics	14.0	2.0	1.8	3.8	1.3	1.3	3.9	37%
SPECIALTY CARE	99.8	8.2	31.7	21.2	10.7	14.3	13.7	28%
Anesthesiology	11.7	.	3.2	6.6	.	.8	1.0	16%
Emergency Medicine	6.5	.6	.9	.	1.0	2.9	1.0	61%
Hospitalist	9.2	2.5	3.3	1.7	1.7	.	.	.
Internal Medicine	16.3	2.2	6.5	2.4	2.3	1.0	1.9	18%
Neurology	1.5	.	1.0	.	.4	.	<.05	2%
Ophthalmology	4.2	.7	2.0	.	1.0	.1	.4	12%
Psychiatry	18.2	<.05	7.7	1.5	.1	5.4	3.5	49%
Surgery: General	5.3	.	1.5	.3	1.5	1.0	1.0	38%
Surgery: Orthopedic	4.1	.	1.2	1.6	.	.	1.3	30%
Surgery: Other	1.2	.	.2	.	.	.	1.0	80%
Urology	2.0	.	.	<.05	1.0	.	1.0	50%
Other Specialties	19.6	2.2	4.0	7.0	1.7	3.1	1.6	24%
	Total	% of total FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	9%	26%	21%	13%	14%	16%	31%
MALES	100%	7%	27%	15%	13%	15%	24%	39%
FEMALES	100%	14%	26%	31%	13%	13%	3%	16%
PRIMARY CARE	100%	11%	17%	20%	16%	15%	21%	35%
SPECIALTY CARE	100%	8%	32%	21%	11%	14%	14%	28%

See Note 1 for a description of the calculation of age.  
Pathologists, radiologists and Telemedicine excluded (Note 3).



Table 50 -- VT Physicians Active in 2016  
 who were Not Active in 2014  
 FTE by Age by Specialty and Gender

	Total	FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	240.5	54.8	94.6	36.9	21.9	17.0	15.3	13%
MALES	135.8	26.4	47.2	26.5	15.3	10.3	10.2	15%
FEMALES	104.7	28.4	47.4	10.4	6.6	6.8	5.2	11%
PRIMARY CARE	65.0	20.8	20.5	9.8	4.3	5.0	4.7	15%
Family Practice	27.8	8.2	10.1	5.4	1.0	2.3	.8	11%
Internal Medicine	11.8	2.1	.8	2.2	1.6	1.6	3.6	44%
Ob/Gyn	13.8	4.8	5.5	2.2	.8	.2	.4	4%
Pediatrics	11.6	5.7	4.1	.	.9	.9	.	8%
SPECIALTY CARE	175.5	34.0	74.1	27.1	17.6	12.1	10.6	13%
Anesthesiology	19.7	2.0	10.0	4.2	3.1	.4	.	2%
Dermatology	4.0	.	2.5	1.5	.	.	.	0%
Emergency Medicine	19.1	5.2	5.5	4.9	2.0	1.2	.3	8%
Hospitalist	14.7	5.0	3.2	1.4	3.0	1.1	1.0	14%
Internal Medicine	32.4	7.9	15.6	2.4	3.0	1.8	1.8	11%
Pediatrics	6.8	3.0	3.1	.6	.	.	.1	1%
Neurology	9.2	1.3	6.7	.0	.	1.0	.2	13%
Ophthalmology	5.3	1.0	4.0	.3	.	.	.	0%
Psychiatry	14.4	.3	6.8	1.6	.1	2.5	3.0	38%
Surgery: General	8.2	1.0	2.8	1.5	2.0	.	.9	11%
Surgery: Orthopedic	9.2	2.0	3.8	1.4	1.5	.1	.6	7%
Surgery: Other	9.7	.	5.3	1.4	.	2.0	1.0	31%
Urology	5.0	1.0	.	2.0	2.0	.	.	0%
Urgent Care	1.7	.	1.0	.6	.	.1	.	6%
Other Specialties	16.0	4.4	3.7	3.3	1.0	1.8	1.8	22%
	Total	% of total FTEs in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	23%	39%	15%	9%	7%	6%	13%
MALES	100%	19%	35%	19%	11%	8%	7%	15%
FEMALES	100%	27%	45%	10%	6%	6%	5%	11%
PRIMARY CARE	100%	32%	32%	15%	7%	8%	7%	15%
SPECIALTY CARE	100%	19%	42%	15%	10%	7%	6%	13%

See Note 1 for a description of the calculation of age.  
 Pathologists, radiologists and telemedicine excluded from this table (Note 3).

Table 51 -- Physicians who Discontinued their Vermont Practice  
between 2014 and 2016  
Numbers of Physicians, Full Time Equivalents (FTEs),  
and Total Weekly Patient Care Hours, by County

Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL	252 157.7 7230	90 57.9 2598	173 99.8 4632
Addison County	13 6.5 282	6 3.4 148	8 3.1 134
Bennington County	22 12.5 597	7 5.1 252	15 7.4 345
Caledonia County	11 5.8 260	4 2.1 94	7 3.7 166
Chittenden County	73 48.8 2272	18 11.5 505	59 37.3 1767
Essex County	.	.	.
Franklin County	8 5.2 255	5 3.7 190	3 1.5 64
Grand Isle County	.	.	.
Lamoille County	12 7.5 325	2 1.8 90	11 5.7 235
Orange County	7 4.0 183	5 3.7 169	3 .3 14
Orleans County	9 6.7 277	6 5.1 209	3 1.6 68
Rutland County	19 11.0 524	7 4.8 225	13 6.1 299
Washington County	24 13.3 574	8 5.2 210	17 8.0 364
Windham County	31 16.7 688	8 3.6 143	23 13.2 545
Windsor County	40 19.2 975	16 8.0 364	26 11.3 611

In this table physicians may be counted more than once (Note 4).  
Pathologists, radiologists and telemedicine are excluded (Note 3).

Table 52 -- VT Physicians Active in 2016  
 who were Not Active in 2014  
 Numbers of Physicians, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by County

Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL	365 240.5 10793	93 65.0 2888	280 175.5 7904
Addison County	11 7.3 331	9 6.1 286	2 1.1 45
Bennington County	23 16.1 688	5 3.0 142	18 13.1 547
Caledonia County	21 10.8 490	3 2.7 106	18 8.2 384
Chittenden County	138 98.5 4500	28 18.6 820	113 79.8 3680
Essex County	.	.	.
Franklin County	11 8.7 362	1 1.0 40	10 7.7 322
Grand Isle County	2 .1 4	1 .0 1	1 .1 3
Lamoille County	10 5.1 267	3 1.3 77	7 3.7 190
Orange County	17 10.7 489	8 6.2 260	9 4.5 229
Orleans County	11 6.9 275	5 4.3 172	6 2.6 103
Rutland County	24 17.9 877	4 4.0 220	20 13.9 657
Washington County	29 22.6 1034	7 5.7 272	23 16.9 762
Windham County	54 21.8 907	8 5.5 229	46 16.4 678
Windsor County	32 14.0 569	12 6.5 264	22 7.5 305

In this table physicians may be counted more than once (Note 4).  
 Pathologists, radiologists and telemedicine are excluded (Note 3).

Table 53 -- VT Physicians by Length of Time Active in Vermont as of 2014, and Whether Still Active in Vermont in 2016

Tenure in VT as of 2014	Physicians Active in 2014	Still Active in VT in 2016	No Longer Active in VT in 2016
TOTAL	1885 (100%)	1617	268 ( 14%)
1-4 years	341 ( 18%)	254	87 ( 26%)
5-9 years	331 ( 18%)	289	42 ( 13%)
10-14 years	299 ( 16%)	268	31 ( 10%)
15-19 years	260 ( 14%)	239	21 ( 8%)
20-24 years	210 ( 11%)	195	15 ( 7%)
25-29 years	165 ( 9%)	146	19 ( 12%)
30+ years	275 ( 15%)	224	51 ( 19%)
unknown	4 ( 0%)	2	2 ( 50%)

Table 54 -- VT Primary Care Physicians by Length of Time Active in Vermont as of 2014, and Whether Still Active in Vermont in 2016

Tenure in VT as of 2014	PC Physicians Active in 2014	Still Active in VT in 2016	No Longer Active in VT in 2016
TOTAL	636 (100%)	551	85 ( 13%)
1-4 years	101 ( 16%)	81	20 ( 20%)
5-9 years	94 ( 15%)	82	12 ( 13%)
10-14 years	83 ( 13%)	75	8 ( 10%)
15-19 years	90 ( 14%)	85	5 ( 6%)
20-24 years	68 ( 11%)	62	6 ( 9%)
25-29 years	73 ( 11%)	63	10 ( 14%)
30+ years	127 ( 20%)	103	24 ( 19%)

Percentages in the 'Active in 2014' column are based on the 'TOTAL' row. Percentages in the 'No Longer Active' column are based on the 'Active in 2014' column.

Table 55 -- VT Physicians, 2006 and 2016  
 Changes in Number of Physicians, Patient Care  
 Hours and Specialties, between 2006 and 2016

	2006	2016	Change	
TOTAL	1730	2182	+452	+26%
Medical Doctor (MD)	1680	2082	+402	+24%
Doctor of Osteopathy (DO)	50	100	+50	+100%
Main specialty:				
Primary Care Total	640	636	-4	-1%
Family Practice	291	286	-5	-2%
Primary Care Internal Medicine	174	162	-12	-7%
Obstetrics and Gynecology	67	71	+4	+6%
Pediatric Primary Care	108	117	+9	+8%
Specialty Care Total	1090	1546	+456	+42%
Anesthesiology	79	105	+26	+33%
Emergency Medicine	96	167	+71	+74%
Hospitalist	.	92		
Internal Medicine Specialties	183	246	+63	+34%
Neurology	37	44	+7	+19%
Ophthalmology	41	41	0	0%
Pathology	56	62	+6	+11%
Psychiatry	169	175	+6	+4%
Radiology	106	176	+70	+66%
Surgery: General	49	54	+5	+10%
Surgery: Orthopedic	65	81	+16	+25%
Surgery: Other	39	40	+1	+3%
Urology	26	23	-3	-12%
Other Specialties	165	240	+75	+45%
Age groups:				
less than 35	79	105	+26	+33%
35 - 44	456	511	+55	+12%
45 - 54	647	593	-54	-8%
55 - 59	256	339	+83	+32%
60 - 64	162	330	+168	+104%
65 and up	123	304	+181	+147%
Gender:				
Male	1234	1344	+110	+9%
Female	496	838	+342	+69%
Patient care hours: (excluding pathologists and radiologists)				
40 or more hours/week	863	780	-83	-10%
30 to 39 hours/week	246	432	+186	+76%
less than 30 hours/week	459	674	+215	+47%

Table 56 -- VT Physicians, 2006 vs. 2016  
 Numbers of Physicians, Full Time Equivalents (FTEs), and  
 Total Weekly Patient Care Hours, by County, in 2006 and in 2016

Count FTEs Hours	2006			2016		
	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATE TOTAL	1568 1239.6 58183	655 503.6 23212	973 736.0 34971	1890 1385.3 62314	647 468.6 20617	1301 916.6 41697
Addison County	86 49.6 2208	43 30.3 1361	46 19.2 847	77 47.4 2089	39 24.5 1058	40 22.9 1031
Bennington County	120 86.6 4039	43 34.0 1672	78 52.6 2368	126 86.6 3833	42 31.2 1435	86 55.4 2398
Caledonia County	65 39.8 1763	28 21.3 912	41 18.5 851	84 49.8 2266	29 20.9 884	58 28.9 1382
Chittenden County	622 488.5 23233	200 149.0 6657	442 339.4 16577	770 568.0 25833	212 148.8 6527	573 419.2 19306
Essex County	4 3.2 158	4 3.2 158	. . . .	4 1.8 90	4 1.8 90	. . . .
Franklin County	94 62.4 2964	40 32.9 1507	55 29.5 1457	78 63.3 2891	31 26.8 1197	50 36.5 1694
Grand Isle County	3 1.1 48	3 1.1 48	. . . .	4 1.8 73	3 1.8 71	1 .1 3
Lamoille County	63 36.7 1774	24 17.9 894	42 18.8 880	63 40.5 1834	25 18.0 809	42 22.5 1026
Orange County	59 32.6 1470	23 13.8 614	40 18.9 856	62 35.8 1626	26 16.6 743	38 19.2 883
Orleans County	56 36.7 1675	22 18.0 822	34 18.7 853	61 39.8 1700	22 15.3 668	43 24.5 1032
Rutland County	152 108.3 5336	51 40.8 2116	105 67.4 3219	162 119.7 5713	45 36.1 1717	117 83.5 3996
Washington County	154 108.5 5050	59 49.8 2240	96 58.7 2810	181 130.6 5795	56 45.5 2053	130 85.1 3742
Windham County	133 87.8 4072	62 42.0 1977	77 45.8 2096	183 104.0 4445	52 39.0 1607	136 65.0 2839
Windsor County	169 97.8 4394	80 49.5 2235	98 48.4 2158	171 96.1 4126	70 42.4 1760	107 53.7 2366

In this table physicians may be counted more than once (Note 4).  
 Pathologists and radiologists are excluded from this table (Note 3).

# Appendices





## **Appendix A. General Notes and Terms**

### **Definition of Active Physician**

A physician who was relicensed for the period 2017-2018 in Vermont, and who provided patient care hours in Vermont as reported in the survey. Physicians who were licensed in Vermont for the first time in late 2016, and were not required to relicense at this time, are not included. Residents and fellows are excluded. *Locum tenens* are excluded except where noted. (*Locum tenens* practitioners fill positions on a temporary basis when practitioners are on sabbatical, vacation, or absent for an extended period.)

### **Physicians not represented in these tables**

Only *active* physicians are reported. Those who hold a Vermont license but are not actively in practice in Vermont are excluded from all tables. Residents, clinical fellows, research fellows are excluded from all tables. Pathologists, radiologists and telemedicine are excluded from tables that list hours or FTEs.

### **Specialties**

Physicians reported their specialties by picking from a predefined list (see Appendix D), although they could also write in a specialty if not in the list. For the purposes of these tables the detailed specialties were grouped in the following way:

#### **Primary Care**

- Family Practice includes general practice, family practice, and geriatric medicine.
- Internal Medicine includes general internal medicine and geriatric internal medicine. Internal Medicine in a “hospitalist” setting was not considered primary care.
- Obstetrics and Gynecology (Ob/Gyn) includes physicians who reported a solely gynecological practice or a solely obstetrical practice, along with those who reported working in both obstetrics and gynecology.
- Pediatrics includes pediatric primary care as well as adolescent medicine.

#### **Specialty Care**

- Anesthesiology
- Emergency Medicine
- Dermatology
- Hospitalist includes those who chose the hospitalist specialty (not by setting)
- Internal Medicine includes several internal medicine subspecialties
- Neurology
- Ophthalmology
- Pathology (excluded from tables reporting FTEs as noted)
- Psychiatry
- Radiology (excluded from tables reporting FTEs as noted)
- General Surgery
- Orthopedic Surgery
- Other Surgery includes most other surgical specialties, such as vascular surgery, abdominal surgery, colon and rectal surgery, neurological surgery, oral and maxillofacial surgery, pediatric surgery, surgical critical care, and thoracic surgery.
- Neurology
- Urgent Care
- Urology

Other Specialties includes all specific specialties that are not included in the specialty groups listed above. (In some tables where there is no room to list all the groups separately, the "other" category in those tables includes some of the groups listed separately above.)

**Hospitalists**

Hospitalists provide general care to hospitalized inpatients. In the past Hospitalist was listed as a practice setting, but not as a specialty. Since the 2010 census “Hospitalist” was included in the list of specialties. In this 2016 census it was no longer listed as a practice setting. A few physicians reported general practice or general internal medicine in a hospital inpatient setting, this may be similar to hospitalists but is counted separately.

**Determination of a physician’s main specialty**

A physician’s “main” specialty is the specialty group in which the physician works the most hours. In case of a tie (equal hours in two specialties), the specialty group listed first in the above list is chosen. This has the effect of choosing primary care over specialty care, and more common specialties over the “other specialties” category, in case of a tie.

**Definition of Full Time Equivalent (FTE)**

Reported hours per week were prorated based on the number of work weeks per year. Full time is defined as 40 patient care hours per week or more, for 48 weeks per year. Reported hours per week were adjusted to an annual average, based on a standard of 48 weeks per year. E.g., if 52 weeks were reported, the hours were multiplied by 52/48. A physician reporting more than 40 (adjusted) hours per week is defined as *one* FTE regardless of the number of hours. See the following examples:

		<u>Weeks</u>	<u>Hours</u>	<u>FTE</u>
Example 1:	Specialty 1	48	10	0.25
	Specialty 2	48	10	0.25
	Total		20	0.50
Example 2:	Specialty 1	52	10	0.27
	Specialty 2	52	10	0.27
	Total		20	0.54
Example 3:	Specialty 1	48	40	0.80
	Specialty 2	24	20	0.20
	Total			1.00

In Example 1, the physician works half-time and has hours split equally between 2 specialties. The second example is similar except for the number of weeks being more than 48 so the FTEs are adjusted upwards. In Example 3 the physician provides an average of 40 hours per week year round (40 adjusted hours) in specialty 1, and another 20 hours of work in specialty 2 in each of only 24 weeks per year (10 adjusted hours). This is calculated as 1.0 FTE total for the person, apportioned between the two specialties by the adjusted hours.

### **Hospital Service Areas**

Unlike previous reports, where some tables reported counts and FTEs by Hospital Service Areas (HSAs), in this report we instead used Health Care Areas (HCAs) as defined by the Vermont Blueprint for Health. Those are similar to the HSAs, with the main differences affecting the White River Junction HSA which is split into three parts: the northern part is called Upper Valley, the Southern part is called Windsor, and the middle part is appended to the Randolph area. For a map of these HCAs see Appendix F.

### **Local Health Districts**

The Local Health Districts are groups of towns whose residents receive services through the local District Office of the Vermont Department of Health. See Appendix G for a map of the Local Health Districts.

### **Determination of a physician's main County (or other area)**

Main county is the county in which the physician practices the greatest number of patient care hours. Similarly for main health care area, or district.

### **Numerical precision**

Most numbers are displayed in finite precision in that they are individually rounded. Thus, some rows or columns of numbers may not add exactly to the displayed total (to the last, rightmost digit). This applies to FTEs, percentages and hours, for example, whether the numerals displayed are decimal or whole numbers. Counts of physicians are exact integers, however, and should add up to displayed totals.

### **Tables displaying each physician in a single cell vs. multiple-count tables**

Many of the tables contain information that is individual-based, and each physician is represented in only one cell in the table. Those with more than one specialty, or more than one practice site or setting, are counted only in the row and column representing their main specialty, main setting, or main practice location.

Other tables count some physicians in more than one row or column, e.g., in every county the physician works in, and thus the numbers in the "total" row or column may be less than the sum of the rows or columns. Wherever this is the case, it is stated in the notes specific to that table.

## **Appendix B. Notes for specific tables (to be referred to by number)**

### **1. Calculation of Age**

Ages were calculated as 2016 minus the year of birth, i.e., as of 12/31/2016. Tables that refer to physicians' age in 2014 are based on ages as of 12/31/2014.

### **2. “Main” Specialty And “Main” County (Or Other Geographical Area) Determined Independently**

Each provider's main practice specialty and main county of practice are determined independently, and are used to determine the row and column in the table in which the provider will be counted. Secondary specialties and counties are ignored. A provider may practice their main specialty primarily in a county other than their main overall county, but that is ignored in this table.

### **3. Table Excludes Pathologists, Radiologists and Telemedicine**

Pathology and radiology specialties are excluded from this table. We are no longer able to determine total radiology FTEs because much of the radiology work is now done remotely by out-of-state radiologists, and the portion of their total time spent on Vermont patients is unknown. Hours in active pathology practice are not part of our definition of direct patient care, and are not included in any table quantifying patient care (e.g., as FTEs).

### **4. Notes Regarding Tables Listing Provider Full Time Equivalent (FTE) And Hours By Area (e.g., County), or by Setting:**

These tables count each provider who provides primary and/or specialty care in that county or area. The same provider may be counted in more than one area, or more than one specialty.

Because of this inclusive approach taken in tallying providers across practice locations and specialties, the numbers in the “Total” rows and “Total” columns will generally be less than the sum of the individual rows and columns. This applies to state totals which sum the county-level counts, and the “Total” of combined specialties. Unlike the totals for the counts of providers, however, the numbers listed in the “Total” rows and “Total” columns for the “FTE” and “Hours” statistics *do* equal the sums of the individual items (except for rounding errors).

See also Note 22 regarding the calculation of weekly hours and FTEs.

(notes 5 and 6 skipped intentionally)

7. **Population Estimates**

The population estimates used in this report are from the Census Bureau, with the “2016” populations as estimated for July, 2016.

8. **“Main” Setting and “Main” Specialty determined independently**

Each provider’s main practice setting and their main specialty are determined independently, and are used to determine the row and column in the table in which the provider will be counted. Secondary settings and specialties are ignored. A provider may practice their main specialty primarily in a setting other than their main overall setting, but that is ignored in this table.

(note 9 skipped intentionally)

10. **Notes Regarding Availability of Care**

The survey queried physicians on whether they accept new patients, and whether they participate in Medicaid and Medicare, separately for each site where they practice.

In the first table depicting availability of care by specialty, each provider is counted once, in his or her main specialty. A provider is counted as accepting new patients if they accept new patients at any site, and as participating in Medicaid or Medicare if they participate at any site.

In the second table, depicting FTEs, availability of care by specialty, each site of each provider is counted, pro-rated by the fractional FTEs computed for each site.

In the table depicting availability of care by county, the unit of counting is neither the provider nor the site, but rather the provider - site association. More than one response per provider is tabulated if that provider reported working at more than one site. Each site of each provider is tabulated under the (main) specialty reported for that site, whether or not that is the provider’s overall main specialty.

The following specialties are excluded from the “accept Medicare patients” statistic (both numerator and denominator): all pediatric specialties and subspecialties (including adolescent medicine), maternal and fetal medicine, reproductive endocrinology, child neurology and child and adolescent psychiatry.

11. **Office Settings Only**

Only ambulatory and office-based settings are counted in this table. For 2016 the following settings are included: Solo practice, group practice (single- or multi-specialty), community clinic (including mental health agencies), home health, hospital outpatient and ambulatory care centers, and those who indicated both inpatient and outpatient work. This is not exactly comparable to previous surveys, as the list of settings has changed. These differences did not seem to make a large difference in the computed percentages accepting new patients.

12. **Geographical Regions**

States were grouped into the following regions:

New England: ME, NH, VT, MA, CT, RI

Other Northeast: NY, NJ, PA

South: DE, MD, DC, VA, WV, NC, SC, GA, FL, KY, TN, AL, MS, AR, OK, LA, TX

Central: OH, IN, IL, MI, WI, MN, IA, MO, ND, SD, NE, KS

West: MT, WY, CO, NM, ID, UT, AZ, NV, WA, OR, CA, AK, HI

13. **Residency by Region**

As in 2014, and unlike prior years, the 2016 census only asked about one residency for each physician. Therefore, the percentages for all the regions within a row should not add up to more than 100. Information on multiple residencies is absent, though.

14. **Determining UVM Training**

In a few cases residency information is available, or school information is available, but not both. These cases are **included** in the last section of the table ("Doctors with *Any Known Training*") along with the doctors for whom both school and residency information are known.

15. **Patient Care Hours**

"Full Time" is defined here as 40 (or more) hours of direct patient care per week in Vermont, 48 weeks per year. Average weekly hours (and FTEs), based on 48 weeks per year, were computed for providers who reported working more or less than 48 weeks per year. This results in fractional hours, and rounding errors may affect the displayed hours. Thus, in some cases the hours in the "total" columns differ, usually by one hour, from the totals of the hours displayed in the detail columns. Some providers provide additional care (not listed here): outside Vermont, or as *locum tenens*, or do other types of work besides direct patient care, e.g., administration, teaching or research.

# Appendix C:

## Vermont MD Census 2016

---

### Identification

1) First Name\* \_\_\_\_\_

2) Middle Name (if any) \_\_\_\_\_

3) Last Name\* \_\_\_\_\_

4) Vermont Physician License Number\* \_\_\_\_\_

---

### Demographics

5) Date of birth (M/D/YYYY)\* \_\_\_\_\_

6) Sex

( ) Male

( ) Female

7) How would you classify your race (check all that apply):

American Indian or Alaska Native

Black or African American

White

Asian

Native Hawaiian or other Pacific Islander

Prefer not to answer

Other - please specify: \_\_\_\_\_

8) Are you Hispanic, Latino/a, or of Spanish origin?

No

Yes, Mexican, Mexican American, Chicano/a

Yes, Puerto Rican

Yes, Cuban

Yes, another Hispanic, Latino/a, or of Spanish origin

Prefer not to answer

---

### Training

9) Please enter the two letter code for the state where you completed your Medical Doctor education: \_\_\_\_\_

10) If completed outside the U.S. or Canada, please specify country: \_\_\_\_\_

11) Please enter the two letter code for the state where you completed your first residency, if any: \_\_\_\_\_

12) In what year did you start practicing (anywhere) as a Physician? (if never, leave blank) \_\_\_\_\_

13) In what year did you start practicing as a Physician in Vermont? (if never, leave blank) \_\_\_\_\_

---

## Currently active

**14) Please check all of the boxes that describe your practice as a Physician:\***

- Active in clinical practice in Vermont
- Active in clinical practice outside Vermont
- Actively working in a field other than medicine
- Not currently working
- Retired

---

## if not active

**16) How many years has it been since you provided clinical or patient care?**

- less than 2 years
- 2 to 5 years
- 5 to 10 years
- more than 10 years
- I have never provided clinical or patient care

**17) Do you plan to start (or resume) clinical practice in Vermont within the next 12 months?**

- yes
- no

[and skip to end of census form]

## if currently active

**18) Do you plan to retire, or leave your principal Vermont clinical practice, within the next 12 months?**

- yes
- no

**19) Do you plan to reduce your patient care hours in Vermont within the next 12 months?**

- yes
- no

**20) Do you use email (or other electronic text-based methods such as texting, or web-based forms) for two-way communication with some of your clients/patients?**

- Yes
- No, although my practice site offers this option
- No, my practice site does not offer this option

**21) Do you feel that these electronic methods improve, or could improve, your engagement/communication with your patients?**

- Yes
- No
- Not sure



**Practice Site 1 (your principal Vermont clinical practice site):**

22) Vermont town name:\* \_\_\_\_\_

23) ZIP code of practice location:\* \_\_\_\_\_

24) Practice name: \_\_\_\_\_

25) Street Address: \_\_\_\_\_

26) Choose the **ONE** description that best fits your practice setting at this site:\*

- Office-based solo physician practice
- Office-based single-specialty physician group
- Office-based multi-specialty physician group
- Hospital emergency department
- Hospital inpatient department
- Hospital outpatient department
- Hospital in- and out-patient
- Hospital ambulatory care center
- Urgent Care / Walk in
- Federal hospital / VA
- Federal / community health center (FQHC/RHC/CHC)
- Community Mental Health Center
- Home health setting
- Nursing home / extended care facility
- Hospice care
- Clinic serving a School or college
- Occupational health setting
- Free Clinic
- Telemedicine
- Other - please specify: \_\_\_\_\_\*

27) Do you work here as locum tenens, on a contract that is for less than a year? (A locum tenens is an employee contracted through a staffing firm or is a self-employed contractor)

Yes       No

The following questions are about direct patient care:

28) Enter the number of weeks per year during which you provide any direct patient care here: (48 weeks per year is considered "year-round".)\* \_\_\_\_\_

29) Main specialty you actually practice at this site (with or without a certification): [pull-down menu]

30) If you selected "Other specialties, Not listed", please describe: \_\_\_\_\_

31) Hours per working week in direct patient care in main specialty here: (Direct patient care includes diagnosis, treatment and clinical reporting.)\* \_\_\_\_\_

32) Secondary specialty you actually practice at this site (if any): [pull-down menu]

33) If you selected "Other specialties, Not listed", please describe: \_\_\_\_\_

34) Hours per working week in direct patient care in Secondary specialty, if any: \_\_\_\_\_

35) Tertiary specialty you actually practice at this site (if any): [pull-down menu]

36) Hours per working week in direct patient care in tertiary specialty, if any: \_\_\_\_\_

**37) Please answer each of the following questions about *your work at this site* providing direct patient care:**

	yes	no	n.a.
I will accept new patients here	( )	( )	( )
I participate in Medicaid here	( )	( )	( )
I will accept new Medicaid patients here	( )	( )	( )
I participate in Medicare here	( )	( )	( )
I will accept new Medicare patients here	( )	( )	( )

**38) Please tell us about time you spend on activities *other than direct patient care at this site*:**

Hours per working week in administration at this site: \_\_\_\_\_

Hours per working week in supervision at this site: \_\_\_\_\_

Hours per working week in teaching at this site: \_\_\_\_\_

Hours per working week in research at this site: \_\_\_\_\_

Hours per working week in other activities (not mentioned above) at this site: \_\_\_\_\_

**Please describe these other activities, if any, e.g., quality improvement, continuing education, etc:**

\_\_\_\_\_

**39) If there is anything else you want to tell us about your practice at this site please enter it here:**

\_\_\_\_\_

---

## Second Vermont practice site

**40) Do you have a second practice site in Vermont?\***

( ) yes            ( ) no

[if yes, same questions as for Site 1]

---

## Third Vermont practice site

**58) Do you have a third practice site in Vermont?\***

( ) yes            ( ) no

[if yes, same questions as for Site 1]

---

**75) Do you have more than three practice sites in Vermont?**

( ) yes            ( ) no

**76) Please describe your work at additional sites beyond the three you entered above, briefly, including locations, specialties and hours:** \_\_\_\_\_

**77) Thank you. If there is anything else you want to tell us about your practice, or this census, please enter it here:**

\_\_\_\_\_

**Appendix D:****SPECIALTY CODES****(primary care specialties in boldface)****(note: codes are not in numerical order, please check them carefully)**

0101 Allergy and Immunology	0801 Medical Genetics
4005 Allergy	0802 Clinical Biochemical Genetics
4015 Immunology	0804 Clinical Cytogenetics
0102 Clinical & Laboratory Immunology	0805 Clinical Genetics (MD)
4025 Pediatric Allergy	0806 Clinical Molecular Genetics
	0807 Molecular Genetics Pathology
0201 Anesthesiology	0901 Neurological Surgery
0202 Critical Care Medicine (Anesth.)	1001 Nuclear Medicine
0203 Pain Management	
0301 Colon & Rectal Surgery	1101 Obstetrics & Gynecology
	4011 Gynecology
0401 Dermatology	4020 Obstetrics
0404 Dermatological Immunology	1102 Critical Care Medicine (OBGYN)
0402 Dermatopathology	1103 Gynecologic Oncology
0405 Pediatric Dermatology	1104 Maternal & Fetal Medicine
	1105 Reproductive Endocrinology
0501 Emergency Medicine	1201 Ophthalmology
0502 Medical Toxicology	4026 Pediatric Ophthalmology
0503 Pediatric Emergency Medicine	
0504 Sports Medicine (EM)	1301 Orthopaedic Surgery
0505 Underseas Medicine (EM)	4004 Adult Reconstructive Orthopedics
	1302 Hand Surgery
0601 Family Practice	4022 Orthopedic Surgery Of The Spine
0604 Adolescent Medicine (FP)	4023 Orthopedic Trauma
0602 Geriatric Medicine (FP)	4027 Pediatric Orthopedics
0603 Sports Medicine (FP)	4032 Sports Medicine (Ortho Surg)
	4033 Traumatic Surgery
4010 General Practice	
	1401 Otolaryngology
0701 Internal Medicine (primary care)	1402 Otology/Neurotology
0702 Adolescent Medicine (IM)	1403 Pediatric Otolaryngology
0703 Clinical Cardiac Electrophysiology	1404 Plastic Surgery Within the Head and Neck
0704 Cardiovascular Disease	1405 Sleep Medicine (otolaryng.)
0706 Clinical & Laboratory Immunology	
0705 Critical Care Medicine (IM)	1500 Pathology
0707 Endocrinology Diabetes & Metabolism	1501 Anatomic & Clinical Pathology
0708 Gastroenterology	1502 Anatomic Pathology
0709 Geriatric Medicine (IM)	1503 Clinical Pathology
0710 Hematology	1504 Blood Banking/Transfusion Medicine
0711 Infectious Disease	1505 Chemical Pathology
0717 Interventional Cardiology	1506 Cytopathology
0712 Medical Oncology	1507 Dermatopathology
0713 Nephrology	1508 Forensic Pathology
0714 Pulmonary Disease	1509 Hematology
0715 Rheumatology	1511 Medical Microbiology
0718 Sleep Medicine (IM)	1514 Molecular Genetic Pathology
0716 Sports Medicine (IM)	1512 Neuropathology
0719 Transplant Hepatology (IM)	1513 Pediatric Pathology
	4031 Radioisotopic Pathology

**CODES CONTINUED ON BACK**

# SPECIALTY CODES

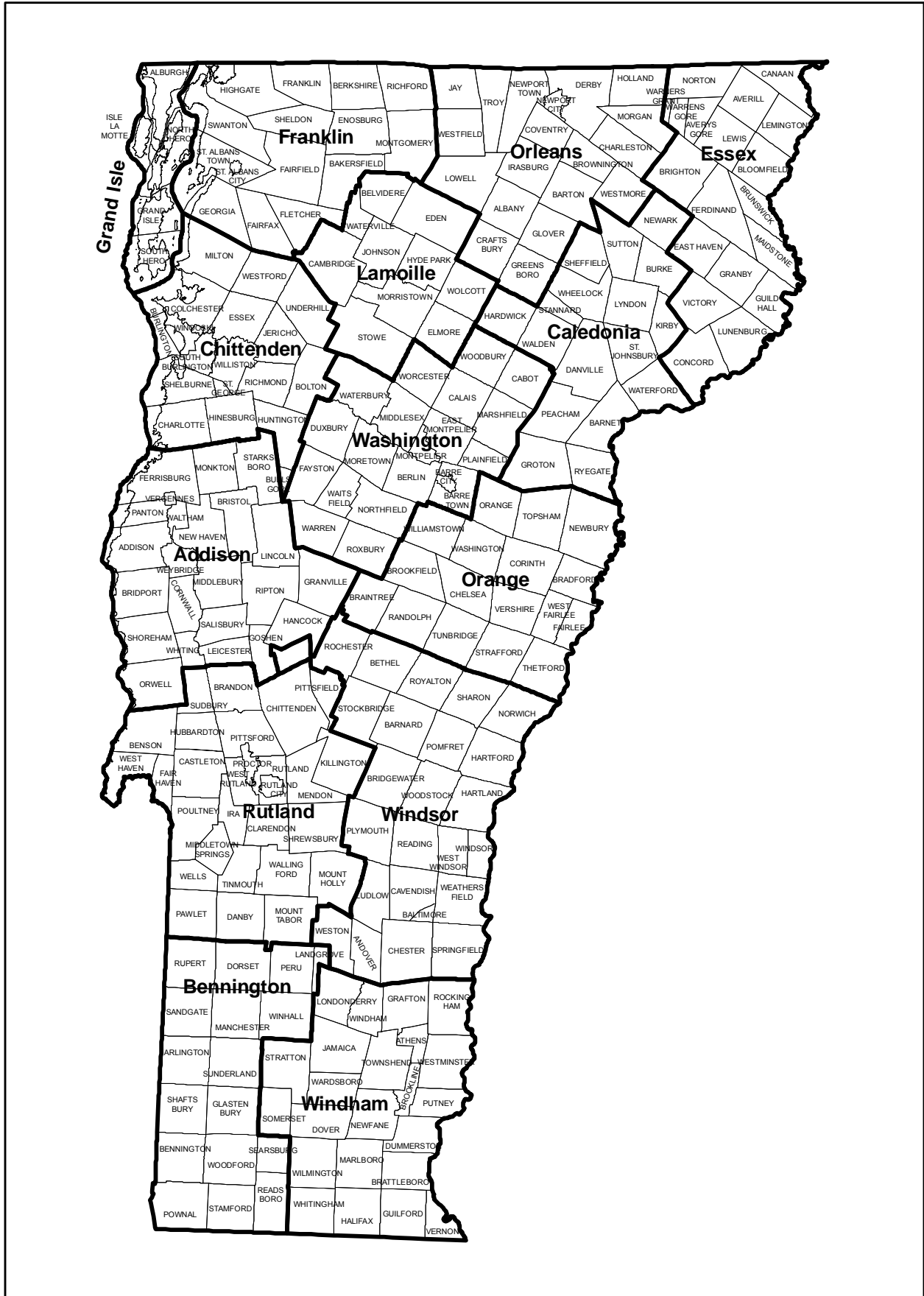
(continued)

(primary care specialties in boldface)

1601	Pediatrics	2010	Pain Medicine (neurology)
1602	Adolescent Medicine	4030	Psychoanalysis
1603	Clinical & Laboratory Immunology	2011	Psychosomatic Medicine
1622	Child Abuse Medicine	2012	Sleep Medicine (psy/neuro)
1618	Developmental-Behavioral Pediatrics	2013	Vascular Neurology
1604	Medical Toxicology		
1605	Neonatal-Perinatal Medicine	2101	Radiology
1619	Neurodevelopmental Disabilities (peds)	2102	Diagnostic Radiology
1606	Pediatric Cardiology	2103	Radiation Oncology
1607	Pediatric Critical Care Medicine	2104	Radiological Physics
1608	Pediatric Emergency Medicine	4018	Neuroradiology
1609	Pediatric Endocrinology	2105	Nuclear Radiology
1610	Pediatric Gastroenterology	2106	Pediatric Radiology
1611	Pediatric Hematology-Oncology	2107	Vascular & Interventional Radiology
1612	Pediatric Infectious Disease		
1613	Pediatric Nephrology	2201	Surgery
1614	Pediatric Pulmonology	4001	Abdominal Surgery
1615	Pediatric Rheumatology	4006	Cardiovascular Surgery
1616	Pediatric Sports Medicine	4012	Head & Neck Surgery
1617	Children With Special Health Needs	4021	Oral & Maxillofacial Surgery
1620	Pediatric Transplant Hepatology	2203	Pediatric Surgery
1621	Sleep Medicine (peds)	2202	Surgery Of The Hand
		2204	Surgical Critical Care
1701	Physical Medicine & Rehabilitation	2205	Vascular Surgery
1702	Pain Medicine (phys med)		
1703	Pediatric Rehabilitation Medicine	2301	Thoracic Surgery
1704	Spinal Cord Injury Medicine		
		2401	Urology
1801	Plastic Surgery	4029	Pediatric Urology
1802	Hand Surgery		
1803	Plastic Surgery Within the Head and Neck	3201	General Osteopathic Medicine
1901	Preventive Medicine		Misc. Specialties – not board names:
1902	Aerospace Medicine	4002	Acupuncture
1903	Occupational Medicine	4003	Addiction Medicine
1904	Public Health & General Preventive	4007	Clinical Pharmacology
1905	Medical Toxicology	4013	Hepatology
1906	Underseas Medicine (PM)	4014	Homeopathic Medicine
		4040	Hospitalist
Psychiatry & Neurology		4016	Legal Medicine
(board name - not a specialty)		4017	Musculoskeletal Oncology
2001	Psychiatry	4019	Nutrition
2002	Neurology	4024	Pain Medicine
2003	Neurology With Special Qualifications In Child Neurology	4035	Phlebology
2004	Addiction Psychiatry	4036	Palliative Care
2005	Child & Adolescent Psychiatry	4034	Sleep Medicine
2008	Clinical Neurophysiology		
2006	Forensic Psychiatry	9999	Other - Please Specify
2007	Geriatric Psychiatry		
2009	Neurodevelopmental Disabilities		

CODES CONTINUED ON FRONT

# Appendix E: Vermont Counties and Towns



Appendix F: Health Care Areas used by the Vermont Blueprint for Health



Appendix G: Local Health Districts

