

Vermont Department of Health

Physician Assistants

2018 Census

Statistical Report

2018 Physician Assistants Census

Statistical Report

State of Vermont
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Acknowledgments

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We also wish to express our appreciation to all the physician assistants who took the time and effort to complete our survey.

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Introduction

Since the health of Vermonters depends, in part, on access to health care, we need to identify and address problems related to the supply of health care providers, including their distribution by geography and specialty. In this report we present detailed profiles of physician assistants practicing in Vermont as of the beginning of the year 2018; these data, along with data on other health care providers, can be used as the basis for policy analysis, shortage area designations, and recruitment and retention activities.

Data Collection: This report includes physician assistants (PAs) who renewed their license as of the end of January 2018 and who provided patient care in Vermont at the time. A link to the online Workforce Census form was included in the online relicensing process conducted by the Vermont Board of Medical Practice in the November 2017 through January 2018 period. The questions asked are included in this report as Appendix C. PAs who did not complete the census were contacted later by the Board. All potentially active PAs relicensed at the time returned census data, thus the response rate was 100%.

Anesthesiology assistants (AAs) and radiology assistants (RAs) are included in this report along with the PAs. Altogether, 370 renewed their license. Some PAs maintain Vermont licenses even though they do not practice in Vermont. Those PAs are excluded from this report, which describes the 355 who were active in Vermont.

Results from the previous surveys (since 1998) are also available. Similar data are collected from other health professionals, including physicians, dentists and others. Results from all of these surveys are available on the Department of Health web site, at <http://healthvermont.gov/health-statistics-vital-records/health-care-systems-reporting/health-care-workforce>.

Limitations: The surveys were reviewed for accuracy and consistency. Missing and/or inconsistent data items were evaluated as to their importance. Missing data items that were determined to be essential were inferred from other data sources. In general, however, the information for this report was self-reported and was 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, and it is possible that a small number of inconsistencies have arisen from such occurrences.

Detailed notes and definitions are included in the Appendices. Please contact us if you have any questions about the survey or the report. Call or write the Department of Health, Public Health Statistics, P.O. Box 70, Burlington, VT 05402, tel. (802) 863-7300, or email AHS.VDHPhysicianCensus@vermont.gov.

Summary

- This report includes data reported by 355 physician assistants providing patient care in Vermont as of January, 2018. This includes anesthesiologist and radiologist assistants.
- 111 (31%) of the physician assistants work mainly in primary care including:
 - 87 Family Practice Medicine
 - 16 Primary Care Internal Medicine
 - 2 Obstetrics and Gynecology
 - 6 Pediatric Primary Care
- 244 (69%) of the physician assistants provide mainly specialty care including:
 - 66 Emergency Medicine
 - 62 Surgery (47 orthopedic, 3 general, 12 other)
 - 28 Urgent Care
 - 15 Anesthesiology
 - 15 Dermatology
 - 13 Internal Medicine Specialties
 - 45 Other specialties
- Of the PAs in primary care, 16% are age 60 or older, compared to 10% of those in specialty care
- Of the 355 physician assistants, 222, or 63%, are women
- 37% of the women practice primary care, while 21% of the men practice primary care
- The 355 physician assistants represent the equivalent of 291.9 full-time providers (FTEs, defined as 40 or more hours of patient care per week). This includes 87.1 FTEs in primary care and 204.7 FTEs in specialty care.
- 23% of the primary care, and 42% of the specialty care, FTEs are in Chittenden County
- 45% of all physician assistants work full-time (40 hours of patient care per week or more) - 32% of primary care providers and 50% of specialty care providers work full time
- Between 2016 and 2018 the number of physician assistants in primary care increased from 106 to 111, and the number in specialty care increased from 202 to 244
- Between 2008 and 2018 the number of physician assistants in primary care increased from 85 to 111, and the number in specialty care increased from 106 to 244

Comparison of Selected Physician Assistant Data, 2002-2018

	2002	2006	2010	2012	2014	2016	2018
Total physician assistants active in VT	130	163	202	240	264	308	355
Percent female	59%	57%	60%	57%	61%	61%	63%
Percent age 55 or older	9%	20%	23%	23%	25%	25%	22%
Average patient care hours per week	36	35	36	35	35	36	35
Primary care PAs	69	83	83	98	103	106	111
Family Practice	53	62	60	77	76	83	87
Internal Medicine	7	11	11	12	18	16	16
Ob/Gyn	8	8	6	6	5	2	2
Pediatric Primary Care	1	2	6	3	4	5	6
% accepting new patients *	92%	93%	82%	88%	83%	93%	87%
% accepting new Medicaid patients *	86%	82%	73%	78%	80%	88%	84%
% accepting new Medicare patients *	86%	81%	73%	82%	77%	88%	87%
Specialty care PAs **	61	80	119	142	161	202	244
Anesthesiology **	3			12	10	14	15
Emergency Medicine	33	30	40	43	45	58	66
Hospitalist **				3	5	4	6
Internal Medicine	1	4	11	10	7	8	13
Orthopedic Surgery	8	19	25	33	43	43	47
Urgent Care **				1	3	20	28
Primary care PA FTEs	54.3	62.6	67.0	76.6	80.0	82.5	87.1
Family Practice	43.6	48.2	49.3	62.5	59.7	63.4	67.1
Internal Medicine	5.3	7.9	9.4	8.6	13.1	13.3	13.5
Ob/Gyn	4.5	4.4	4.4	3.6	3.7	1.7	1.5
Pediatric Primary Care	1.0	2.1	3.9	1.9	3.4	4.1	5.0
FTEs/100,000 population	8.8	10.0	10.8	12.2	12.8	13.2	14.0
Specialty care PA FTEs **	54.8	70.2	105.7	123.3	139.2	171.9	204.7
Anesthesiology **	2.9			11.3	9.6	12.7	13.6
Emergency Medicine	29.4	24.8	32.4	34.2	34.4	43.1	50.3
Hospitalist **				2.3	4.4	4.1	5.1
Internal Medicine	1.0	3.1	9.6	7.9	5.9	6.7	8.7
Orthopedic Surgery	7.5	17.8	23.5	31.6	39.0	39.3	44.6
Urgent Care **				0.5	2.7	15.4	26.2

* See Note 6 in Appendix B on tabulation of availability of care.

** Anesthesiologist assistants weren't a separate license type in 2002, and have been added into the PA report since 2012. Hospitalists and Urgent Care were not listed as specialties until 2012.

Vermont Physician Assistants' Demographic Characteristics

Table 1 -- VT Physician Assistants, 2018
Summary of Active Physician Assistants

TOTAL	355	(100%)
Main specialty:		
Primary Care Total	111	(31%)
Family Practice	87	(25%)
Primary Care Internal Medicine	16	(5%)
Obstetrics and Gynecology	2	(1%)
Pediatric Primary Care	6	(2%)
Specialty Care Total	244	(69%)
Anesthesiology	15	(4%)
Dermatology	15	(4%)
Emergency Medicine	66	(19%)
Hospitalist	6	(2%)
Internal Medicine Specialties	13	(4%)
Psychiatry	4	(1%)
Radiology	5	(1%)
Surgery: General	3	(1%)
Surgery: Orthopedic	47	(13%)
Surgery: Other	12	(3%)
Urology	2	(1%)
Urgent Care	28	(8%)
Other Specialties	28	(8%)
Age groups:		
younger than 30	27	(8%)
30 - 39	123	(35%)
40 - 49	94	(26%)
50 - 54	33	(9%)
55 - 59	36	(10%)
60 - 64	19	(5%)
65 and older	23	(6%)
Gender:		
Male	132	(37%)
Female	222	(63%)
Other	1	
Patient care hours:		
40 or more hours/week	158	(45%)
30 to 39 hours/week	124	(35%)
less than 30 hours/week	73	(21%)
Number of practice sites:		
One	288	(81%)
Two	54	(15%)
Three or more	13	(4%)

Table 2 -- VT Physician Assistants, 2018
Age by Specialty and by Gender

	Total	Number in Age Group			Age 60+
		<40	40-59	60+	(%)
GRAND TOTAL	355	150	163	42	12%
MALES	132	40	69	23	17%
FEMALES	222	109	94	19	9%
PRIMARY CARE	111	45	48	18	16%
MALES	28	8	14	6	21%
FEMALES	83	37	34	12	14%
Family Practice	87	35	39	13	15%
Internal Medicine	16	5	6	5	31%
Ob/Gyn	2	2	.	.	.
Pediatrics	6	3	3	.	.
SPECIALTY CARE	244	105	115	24	10%
MALES	104	32	55	17	16%
FEMALES	139	72	60	7	5%
Anesthesiology	15	4	10	1	7%
Dermatology	15	4	11	.	.
Emergency Medicine	66	29	28	9	14%
Hospitalist	6	3	3	.	.
Internal Medicine	13	6	7	.	.
Psychiatry	4	.	4	.	.
Radiology	5	.	5	.	.
Surgery: General	3	1	2	.	.
Surgery: Orthopedic	47	26	16	5	11%
Surgery: Other	12	7	4	1	8%
Urology	2	1	1	.	.
Urgent Care	28	15	10	3	11%
Other Specialties	28	9	14	5	18%

See Note 1 for description of the calculation of age.

Table 3 -- VT Physician Assistants, 2018
Specialty by Gender

Specialty	Total	Male	Female	Female (%)
TOTAL	355	132	222	63%
PRIMARY CARE	111	28	83	75%
Family Practice	87	25	62	71%
Internal Medicine	16	3	13	81%
Ob/Gyn	2	.	2	100%
Pediatrics	6	.	6	100%
SPECIALTY CARE	244	104	139	57%
Anesthesiology	15	9	6	40%
Dermatology	15	3	12	80%
Emergency Medicine	66	42	24	36%
Hospitalist	6	4	2	33%
Internal Medicine	13	4	8	69%
Psychiatry	4	1	3	75%
Radiology	5	2	3	60%
Surgery: General	3	2	1	33%
Surgery: Orthopedic	47	17	30	64%
Surgery: Other	12	2	10	83%
Urology	2	.	2	100%
Urgent Care	28	11	17	61%
Other Specialties	28	7	21	75%

The 'Total' column includes one PA with 'other' gender.

Table 4 -- VT Physician Assistants, 2018
Age by County

County	Total	Number in Age Group			Age 60+
		<40	40-59	60+	(%)
STATEWIDE TOTAL					
Total	355	150	163	42	12%
Primary Care	111	45	48	18	16%
Specialists	244	105	115	24	10%
Addison County					
Primary Care	3	2	1	.	.
Specialists	9	2	7	.	.
Bennington County					
Primary Care	6	3	1	2	33%
Specialists	14	8	5	1	7%
Caledonia County					
Primary Care	1	.	1	.	.
Specialists	5	3	1	1	20%
Chittenden County					
Primary Care	28	12	14	2	7%
Specialists	100	44	52	4	4%
Essex County					
Primary Care	5	3	2	.	.
Specialists	0	.	.	.	.
Franklin County					
Primary Care	11	8	2	1	9%
Specialists	9	7	1	1	11%
Grand Isle County					
Primary Care	1	.	.	1	100%
Specialists	0	.	.	.	.
Lamoille County					
Primary Care	1	.	1	.	.
Specialists	5	3	1	1	20%
Orange County					
Primary Care	4	2	1	1	25%
Specialists	6	1	4	1	17%
Orleans County					
Primary Care	4	1	2	1	25%
Specialists	3	1	2	.	.
Rutland County					
Primary Care	16	4	9	3	19%
Specialists	22	8	10	4	18%
Washington County					
Primary Care	10	3	5	2	20%
Specialists	14	7	5	2	14%
Windham County					
Primary Care	8	3	3	2	25%
Specialists	14	6	6	2	14%
Windsor County					
Primary Care	13	4	6	3	23%
Specialists	43	15	21	7	16%

Each PA is counted once in this table - see Note 2.
See Note 1 for description of the calculation of age.

Table 5 -- VT Physician Assistants, 2018
Education and Training

	PRIMARY CARE	SPECIALTY CARE
	-----	-----
TOTAL	111	244
Region where trained:		
New Hampshire	21%	15%
Rest of New England	27%	27%
Other Northeast	31%	30%
South	13%	21%
Central	2%	5%
West	6%	2%
unknown	1	2
Degree awarded:		
Certificate	15%	9%
Associate Degree	4%	4%
Bachelor	11%	12%
Master	71%	75%
other	0%	0%
Certified by the NCCPA:	99%	95%
Completed post-graduate training:	21%	25%
Completed specialty certification:	5%	14%

This table uses the standard mapping of states to regions, but separates out VT and NH (Note 12).

Table 6 -- VT Physician Assistants, 2018
Years in Clinical Practice

In Clinical Practice	PRIMARY CARE		SPECIALTY CARE	
	Anywhere	In Vermont	Anywhere	In Vermont
less than a year	6 (5%)	9 (8%)	14 (6%)	32 (13%)
1 to 2 years	11 (10%)	14 (13%)	22 (9%)	47 (19%)
3 to 4 years	10 (9%)	17 (15%)	21 (9%)	30 (12%)
5 to 9 years	23 (21%)	24 (22%)	54 (22%)	49 (20%)
10 to 14 years	15 (14%)	12 (11%)	45 (18%)	39 (16%)
15 to 19 years	17 (15%)	11 (10%)	42 (17%)	23 (9%)
20 to 24 years	12 (11%)	14 (13%)	19 (8%)	8 (3%)
25 to 29 years	2 (2%)	3 (3%)	4 (2%)	6 (2%)
30 years or more	15 (14%)	7 (6%)	23 (9%)	9 (4%)
unknown	0	0	0	1
Total	111 (100%)	111 (100%)	244 (100%)	244 (100%)
Median years:	11	8	11	5

Vermont Physician Assistants'
Distribution of Full Time Equivalents (FTEs)

Table 7 -- VT Physician Assistants, 2018
FTE by Age and Gender by Specialty

	Total	FTEs in Age Group			Age 60+
		<40	40-59	60+	(%)
GRAND TOTAL	291.9	129.9	131.6	30.4	10%
MALES	114.4	36.2	60.7	17.5	15%
FEMALES	176.8	92.9	70.9	12.9	7%
PRIMARY CARE	87.1	37.5	37.9	11.8	14%
MALES	23.5	6.8	12.4	4.3	18%
FEMALES	63.7	30.7	25.4	7.5	12%
Family Practice	67.1	28.6	30.1	8.4	13%
Internal Medicine	13.5	4.6	5.4	3.4	25%
Ob/Gyn	1.5	1.5	.	.	.
Pediatrics	5.0	2.7	2.3	.	.
SPECIALTY CARE	204.7	92.4	93.7	18.6	9%
MALES	90.9	29.4	48.2	13.2	15%
FEMALES	113.1	62.2	45.5	5.4	5%
Anesthesiology	13.6	3.8	8.9	1.0	7%
Dermatology	11.6	3.1	8.5	.	.
Emergency Medicine	50.3	23.8	20.1	6.4	13%
Hospitalist	5.1	2.3	2.8	.	.
Internal Medicine	8.7	3.6	5.1	.	.
Psychiatry	3.2	.	3.2	.	.
Radiology	3.0	.	3.0	.	.
Surgery: General	3.3	1.3	2.0	.	.
Surgery: Orthopedic	44.6	24.7	15.1	4.9	11%
Surgery: Other	9.8	5.7	3.1	1.0	10%
Urology	2.0	1.0	1.0	.	.
Urgent Care	26.2	15.2	9.0	2.0	8%
Other Specialties	23.3	8.0	12.0	3.2	14%

See Note 1 for a description of the calculations of ages

Table 8 -- VT Physician Assistants, 2018
Full Time Equivalentents (FTEs) by Age by County

County	Total	FTEs in Age Group			Age 60+ (%)
		<40	40-59	60+	
STATEWIDE TOTAL					
Total	291.9	129.9	131.6	30.4	10%
Primary Care	87.1	37.5	37.9	11.8	14%
Specialists	204.7	92.4	93.7	18.6	9%
Addison County					
Primary Care	2.4	1.6	.8	.	.
Specialists	6.8	2.1	4.7	.	.
Bennington County					
Primary Care	5.0	2.6	.9	1.5	31%
Specialists	12.4	7.5	4.6	.3	2%
Caledonia County					
Primary Care	.2	.	.2	.	.
Specialists	4.7	2.7	1.0	1.0	21%
Chittenden County					
Primary Care	19.9	8.6	10.1	1.2	6%
Specialists	86.8	39.0	44.3	3.5	4%
Essex County					
Primary Care	4.4	2.4	2.0	.	.
Specialists	<.05	.	.	.	.
Franklin County					
Primary Care	8.8	7.2	1.2	.4	5%
Specialists	9.5	7.3	1.2	1.1	11%
Grand Isle County					
Primary Care	.5	.	.	.5	100%
Specialists	<.05	.	.	.	.
Lamoille County					
Primary Care	.8	.	.8	.	.
Specialists	4.1	3.0	1.0	.1	3%
Orange County					
Primary Care	2.7	1.8	.6	.3	9%
Specialists	4.0	<.05	3.1	.9	23%
Orleans County					
Primary Care	3.4	.9	2.0	.5	15%
Specialists	2.8	1.0	1.8	.	.
Rutland County					
Primary Care	13.6	3.6	7.6	2.3	17%
Specialists	19.4	7.5	8.7	3.3	17%
Washington County					
Primary Care	8.3	2.6	3.7	2.0	24%
Specialists	13.8	7.0	5.4	1.5	11%
Windham County					
Primary Care	5.7	2.7	2.2	.8	14%
Specialists	12.7	5.6	5.1	1.9	15%
Windsor County					
Primary Care	11.4	3.4	5.7	2.3	20%
Specialists	27.7	9.8	12.8	5.1	18%

See Note 1 for description of the calculation of age.

Table 9 -- VT Physician Assistants, 2018
 Numbers of Providers, Full Time Equivalents (FTEs),
 and Total Weekly Patient Care Hours, by County

Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL	355 291.9 12358	114 87.1 3596	256 204.7 8762
Addison County	15 9.2 420	3 2.4 113	13 6.8 307
Bennington County	23 17.3 714	6 5.0 199	18 12.4 515
Caledonia County	6 4.9 197	1 .2 8	5 4.7 189
Chittenden County	131 106.7 4543	28 19.9 822	104 86.8 3720
Essex County	5 4.4 174	5 4.4 174	. . .
Franklin County	27 18.3 766	12 8.8 361	17 9.5 405
Grand Isle County	1 .5 21	1 .5 21	. . .
Lamoille County	6 4.9 197	1 .8 32	5 4.1 165
Orange County	11 6.6 298	5 2.7 139	6 4.0 159
Orleans County	7 6.3 255	4 3.4 142	3 2.8 113
Rutland County	41 33.0 1368	16 13.6 562	27 19.4 806
Washington County	30 22.1 928	11 8.3 334	21 13.8 595
Windham County	27 18.4 750	9 5.7 229	20 12.7 521
Windsor County	58 39.1 1727	14 11.4 460	46 27.7 1267

In this table PAs may be counted more than once (Note 3).

Table 10 -- VT Physician Assistants, 2018
 Numbers of Primary Care Providers, 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	114 87.1 3596	90 67.1 2776	17 13.5 558	2 1.5 60	7 5.0 202
Addison County	3 2.4 113	3 2.4 113	.. .. .	.. .. .	.. .. .
Bennington County	6 5.0 199	4 3.2 127	. . . . .	. . . . .	2 1.8 72
Caledonia County	1 .2 8	1 .2 8	.. .. .	.. .. .	.. .. .
Chittenden County	28 19.9 822	22 15.5 647	4 3.1 123	1 .5 20	1 .8 32
Essex County	5 4.4 174	5 4.4 174	.. .. .	.. .. .	.. .. .
Franklin County	12 8.8 361	9 6.0 251	2 1.8 70	1 1.0 40	.. .. .
Grand Isle County	1 .5 21	1 .5 21	.. .. .	.. .. .	.. .. .
Lamoille County	1 .8 32	1 .8 32	.. .. .	.. .. .	.. .. .
Orange County	5 2.7 139	4 1.6 79	1 .5 36	. . . . .	1 .6 24
Orleans County	4 3.4 142	2 2.0 84	1 .5 20	. . . . .	1 .9 38
Rutland County	16 13.6 562	16 13.6 562	.. .. .	.. .. .	.. .. .
Washington County	11 8.3 334	11 8.3 334	.. .. .	.. .. .	.. .. .
Windham County	9 5.7 229	6 3.8 153	1 1.0 40	. . . . .	2 .9 36
Windsor County	14 11.4 460	7 4.8 191	8 6.7 269	.. .. .	.. .. .

In this table providers may be counted more than once (Note 3).

Table 11 -- VT Physician Assistants, 2018
 Numbers of Specialty Care PAs, Full Time Equivalents (FTEs),
 and Total Weekly Patient Care Hours, by County

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTH- ESIOLOG.	DERMAT- OLOGY	EMERGENCY MEDICINE	URGENT CARE	ORTHOP. SURGERY	OTHER SURGERY	ALL OTHER
STATEWIDE TOTAL	256 204.7 8762	15 13.6 566	15 11.6 480	79 50.3 2278	46 26.2 1138	48 44.6 1845	16 13.0 565	71 45.3 1890
Addison County	13 6.8 307	.	.	7 3.0 143	3 .9 37	3 1.9 88	.	1 1.0 40
Bennington County	18 12.4 515	5 4.3 173	.	2 1.3 56	7 3.4 137	3 2.9 129	.	4 .5 20
Caledonia County	5 4.7 189	.	.	1 1.0 39	.	2 1.5 60	2 1.3 50	1 1.0 40
Chittenden County	104 86.8 3720	10 9.1 385	13 11.4 470	17 10.5 454	8 5.3 268	19 17.7 734	10 9.7 427	35 23.2 982
Essex County	.	.	.	.	.	.	.	.
Franklin County	17 9.5 405	.	.	5 1.1 44	8 3.5 161	4 3.9 156	.	1 1.0 44
Grand Isle County	.	.	.	.	.	.	.	.
Lamoille County	5 4.1 165	.	.	1 .1 5	.	4 4.0 160	.	.
Orange County	6 4.0 159	.	.	.	.	1 .9 36	3 1.1 43	2 2.0 80
Orleans County	3 2.8 113	.	.	.	.	2 2.0 80	.	1 .8 33
Rutland County	27 19.4 806	.	.	6 3.9 165	5 4.0 160	4 3.9 162	1 1.0 45	14 6.7 274
Washington County	21 13.8 595	3 .2 8	.	4 2.5 126	9 6.3 265	2 2.0 81	.	6 2.7 114
Windham County	20 12.7 521	.	1 <.05 0	10 5.0 209	4 1.8 72	2 2.0 80	.	5 3.9 160
Windsor County	46 27.7 1267	.	1 .3 10	33 22.1 1037	4 1.0 39	2 2.0 80	.	9 2.4 101

In this table PAs may be counted more than once (see Note 3).
 'Other Surgery' here includes General Surgery.

Table 12 -- VT Physician Assistants, 2018
 Primary Care Provider FTE to Population Ratios
 by County

County	FTEs	Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	87.1	623,657	14.0	7,157
Addison County	2.4	36,776	6.6	15,040
Bennington County	5.0	35,594	14.0	7,155
Caledonia County	.2	30,164	.6	160,875
Chittenden County	19.9	162,372	12.3	8,157
Essex County	4.4	6,230	69.9	1,431
Franklin County	8.8	49,025	17.9	5,581
Grand Isle County	.5	6,998	7.4	13,436
Lamoille County	.8	25,337	3.2	31,671
Orange County	2.7	28,974	9.2	10,882
Orleans County	3.4	26,841	12.8	7,793
Rutland County	13.6	59,087	23.0	4,346
Washington County	8.3	58,290	14.3	7,002
Windham County	5.7	42,869	13.3	7,500
Windsor County	11.4	55,100	20.7	4,821

Only primary care PAs are included in this table.
 One Full Time Equivalent (FTE) is 40 (or more) hours per week,
 48 weeks per year or more. The FTEs are rounded to one digit for
 display only - ratios were calculated using the unrounded values.

Population estimates are from the Census Bureau for July 2017
 (Note 7).

Vermont Physician Assistants' Practice Characteristics

Table 13 -- VT Physician Assistants, 2018
Detailed Specialty List

SPECIALTY GROUP Specialty	Count of PAs Working in Specialty		
	As Main Specialty	As Secondary Specialty	FTEs
TOTAL	355		
FAMILY PRACTICE			
Adolescent Medicine	2	0	.3
Family Medicine	79	3	61.8
General Practice	6	1	5.0
INTERNAL MEDICINE (primary care)			
Geriatric Internal Medicine	3	0	2.0
Internal Medicine	13	1	11.5
OB/GYN			
Gynecology	1	0	.5
Obstetrics & Gynecology	1	0	1.0
PEDIATRICS (primary care)	6	1	5.0
ANESTHESIOLOGY			
Anesthesiology	14	0	13.2
Pain Management	1	0	.4
DERMATOLOGY	15	0	11.6
EMERGENCY MEDICINE			
Emergency Medicine	66	13	50.3
HOSPITALIST	6	3	5.1
INTERNAL MEDICINE (SPECIALTY)			
Cardiovascular Disease	2	0	1.3
Hematology (Internal Medicine)	1	1	.7
Hematology-Oncology (IM)	1	0	.3
Infectious Disease	1	0	.2
Internal Medicine (subspecialty)	3	0	2.0
Interventional Cardiology	1	0	1.0
Medical Oncology	2	0	1.6
Pulmonary Disease	2	0	1.7
PSYCHIATRY			
Psychiatry	3	0	2.3
Psychiatry & Neurology	1	0	1.0
RADIOLOGY			
Radiology	1	0	.1
Vascular/Interventional Radiology	4	0	2.9

(continued on next page)

Table 13 -- VT Physician Assistants, 2018
Detailed Specialty List (continued)

SPECIALTY GROUP Specialty	Count of PAs Working in Specialty		
	As Main Specialty	As Secondary Specialty	FTEs
SURGERY: GENERAL	3	1	3.3
SURGERY: ORTHOPEDIC			
Adult Reconstructive Orthopedics	1	0	.9
Hand Surgery (Orthopedic)	6	1	6.4
Orthopedic Surgery	28	1	26.5
Orthopedic Surgery Of The Spine	5	0	4.7
Orthopedic Surgery: Sports	4	1	3.6
Orthopedic Trauma	2	0	2.0
Pediatric Orthopedics	1	0	.6
SURGERY: OTHER			
Cardiovascular Surgery	3	0	2.9
General Vascular Surgery	1	0	1.0
Neurological Surgery	6	0	4.1
Surgical Critical Care	1	0	.8
Thoracic Surgery	1	0	1.0
UROLOGY			
Pediatric Urology	0	1	.1
Urology	2	0	1.9
URGENT CARE			
FM in urgent care setting	7	4	7.3
GP in urgent care setting	1	1	.2
IM in urgent care setting	1	0	.9
Urgent Care	19	13	17.9
OTHER SPECIALTIES			
Addiction Medicine	0	2	.5
Family Medicine: Sports	0	1	.0
FM (in hospital or ED setting)	1	3	.7
General Practice (in hospital)	5	0	3.2
Gynecologic Oncology	2	0	1.7
Gynecology	0	1	.2
Neonatal-perinatal Medicine	2	0	2.0
Ob/Gyn (subspecialty)	1	0	.9
Occupational Medicine	2	1	1.5
Otolaryngology	4	0	2.8
Pain Medicine (PM)	1	0	.9
Physical Medicine & Rehabilitation	1	0	1.0
Plastic Surgery	2	0	2.0
Plastic Surgery within Head & Neck	0	1	.2
Sleep Medicine	0	1	.2
Unlisted Specialty	7	4	5.5

Table 14 -- VT Physician Assistants, 2018
 FTEs by (Grouped) Practice Setting by Specialty

Specialty Group	FTEs in Practice Setting						
	Office	Urgent Care	E.D.	Hospital Inpatient	Hospital Outpatient	Health Clinic	All Others
TOTAL	69.3	25.5	47.3	14.7	92.0	34.5	8.6
PRIMARY CARE	34.8	.	.	.	15.4	34.1	2.9
Family Practice	25.5	.	.	.	7.7	31.0	2.9
Internal Medicine	4.6	.	.	.	5.9	3.1	.
Ob/Gyn	1.5	.	.	.	.	.	.
Pediatrics	3.2	.	.	.	1.8	.	.
SPECIALTY CARE	34.5	25.5	47.3	14.7	76.6	.4	5.7
Anesthesiology	.	.	.	.	13.6	.	.
Dermatology	8.9	.	.	.	2.7	.	.
Emergency Medicine	.	2.5	45.8	.	1.9	.1	.
Hospitalist	.	.	.2	4.9	<.05	.	.
Internal Medicine	.	.	.	1.0	6.6	.	1.0
Psychiatry	1.5	.	.	1.8	.	.	.
Radiology	.	.	.	.	3.0	.	.
Surgery: General	.	.	.	.	3.3	.	.
Surgery: Orthopedic	16.7	<.05	.	1.6	26.2	.	<.05
Surgery: Other	1.1	.	.	.	8.7	.	.
Urology	.	.	.	1.0	1.0	.	.
Urgent Care	2.3	21.8	1.1	.	.7	.3	.
Other Specialties	4.0	1.2	.2	4.4	8.8	.	4.7

All worksites of each PA are counted in this table (Note 4).
 'Outpatient' here includes the Inpatient/Outpatient combined setting.
 The 'Urgent Care' column refers to the setting, while the 'Urgent Care' line
 refers to the specialty group - see Appendix A.

Table 15 -- VT Physician Assistants, 2018
 FTEs by Detailed Practice Settings

Practice Setting	Primary Care		Specialty Care	
	FTEs	Percent	FTEs	Percent
Total	87.1	100%	204.7	100%
Solo Practice	4.3	5%	3.6	2%
Single-Specialty Group	26.4	30%	22.0	11%
Multi-Specialty Group	4.2	5%	8.9	4%
Hospital Inpatient Dept	.	.	14.7	7%
Hospital Emergency Dept	.	.	47.3	23%
Hospital Outpatient Dept	12.3	14%	24.7	12%
Hospital In/Outpatient	3.0	3%	51.9	25%
Urgent Care / Walk-in	.	.	25.5	12%
Health Clinic/Center	34.1	39%	.4	0%
Substance Abuse Center	<.05	0%	.	.
School/College	2.9	3%	.7	0%
Other	.	.	5.1	2%

Table 16 -- VT Physician Assistants, 2018
Practice Setting by Age

Practice Setting	Total	Number in Age Group		
		under 40	40-59	60 and older
TOTAL, all settings	355 (100%)	150	163	42
Solo Practice	11 (3%)	5	5	1
Single-Specialty Group	58 (16%)	24	24	10
Multi-Specialty Group	16 (5%)	6	10	.
Hospital Inpatient Dept	17 (5%)	7	10	.
Hospital Emergency Dept	60 (17%)	28	25	7
Hospital Outpatient Dept	45 (13%)	20	22	3
Hospital In/Outpatient	63 (18%)	25	30	8
Urgent Care / Walk-in	28 (8%)	15	10	3
Health Clinic/Center	41 (12%)	19	15	7
School/College	7 (2%)	1	6	.
Other	9 (3%)	.	6	3

Each PA is counted once in this table, in their main practice setting.
See Note 1 for a description of the calculation of age.

Table 17 -- VT Physician Assistants, 2018
Practice Setting by Gender

Practice Setting	Total	Males		Females	
TOTAL, all settings	355	132 (100%)		222 (100%)	
Solo Practice	11	2 (2%)		9 (4%)	
Single-Specialty Group	58	16 (12%)		42 (19%)	
Multi-Specialty Group	16	7 (5%)		9 (4%)	
Hospital Inpatient Dept	17	7 (5%)		10 (5%)	
Hospital Emergency Dept	60	40 (30%)		20 (9%)	
Hospital Outpatient Dept	45	12 (9%)		33 (15%)	
Hospital In/Outpatient	63	24 (18%)		38 (17%)	
Urgent Care / Walk-in	28	9 (7%)		19 (9%)	
Health Clinic/Center	41	10 (8%)		31 (14%)	
School/College	7	1 (1%)		6 (3%)	
Other	9	4 (3%)		5 (2%)	

Each PA is counted once in this table, in their main practice setting.
Percentages are based on column totals.

Table 18 -- VT Physician Assistants, 2018
Average Patient Care Hours per Week, by Specialty and Age

Main Specialty	Total PAs	Average Patient Care Hours per Week				% Working Full Time (%)
		All Ages	Age < 40	Age 40-59	Age 60+	
ALL SPECIALTIES	355	35	37	34	30	45%
PRIMARY CARE	111	33	36	33	27	32%
Family Practice	87	33	36	32	26	30%
Internal Medicine	16	33	34	38	27	44%
Ob/Gyn	2	.	.	.	.	.
Pediatrics	6	33	35	31	.	0%
SPECIALTY CARE	244	36	38	34	32	50%
Anesthesiology	15	39	40	38	.	60%
Dermatology	15	32	31	32	.	47%
Emergency Medicine	66	36	39	34	32	39%
Hospitalist	6	29	21	38	.	50%
Internal Medicine	13	27	24	29	.	38%
Psychiatry	4	32	.	32	.	25%
Radiology	5	28	.	28	.	60%
Surgery: General	3	42	.	.	.	100%
Surgery: Orthopedic	47	39	40	39	39	66%
Surgery: Other	12	37	38	32	.	75%
Urology	2	.	.	.	.	.
Urgent Care	28	35	41	31	19	36%
Other Specialties	28	34	35	36	25	50%

Averages based on less than 3 people are suppressed.
'Full Time' is 40 (or more) hours of direct patient care per week in Vermont, 48 weeks per year (see Note 9).
See Note 1 for description of the calculation of age.

Table 19 - VT Physician Assistants, 2018
Practice Availability by Specialty

Specialty	PA's	Accept New Patients (%)	Participate in Medicaid (%)	Accept New Medicaid Patients (%)	Participate in Medicare (%)	Accept New Medicare Patients (%)
TOTAL	224	93%	95%	84%	99%	90%
PRIMARY CARE	105	87%	100%	84%	100%	87%
Family Practice	81	89%	100%	85%	100%	90%
Internal Medicine	16	73%	100%	69%	100%	69%
Ob/Gyn	2	100%	100%	100%	100%	100%
Pediatrics	6	100%	100%	100%	n.a.	n.a.
SPECIALTY CARE	119	98%	90%	83%	98%	92%
Anesthesiology	15	100%	100%	88%	100%	100%
Dermatology	15	93%	43%	43%	100%	93%
Internal Medicine	10	100%	100%	80%	100%	80%
Psychiatry	2	100%	50%	50%	50%	50%
Surgery: General	3	100%	100%	100%	100%	100%
Surgery: Orthopedic	46	100%	100%	93%	100%	93%
Surgery: Other	12	100%	100%	91%	100%	91%
Urology	1	100%	100%	100%	100%	100%
Other Specialties	15	92%	85%	85%	92%	92%

Only office settings are included (Note 7).
Emergency Medicine and Urgent Care are excluded from this table.
Medicare does not generally cover pediatric care.

PAs 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 PA is counted once, in his or her main specialty. Only sites where the PA works in his or her main specialty are included. A PA 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. See Note 6 regarding tabulation of availability.

Table 20 -- VT Physician Assistants, 2018
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	187.4	94%	95%	86%	100%	92%
PRIMARY CARE	84.3	89%	100%	86%	100%	88%
Family Practice	64.3	90%	100%	87%	100%	91%
Internal Medicine	13.5	76%	100%	72%	100%	72%
Ob/Gyn	1.5	100%	100%	100%	100%	100%
Pediatrics	5.0	100%	100%	100%	n.a.	n.a.
SPECIALTY CARE	103.2	99%	91%	86%	99%	94%
Anesthesiology	13.6	100%	100%	86%	100%	100%
Dermatology	11.6	98%	37%	37%	100%	98%
Internal Medicine	6.6	100%	100%	92%	100%	92%
Psychiatry	1.5	100%	82%	82%	82%	82%
Surgery: General	3.3	100%	100%	92%	100%	92%
Surgery: Orthopedic	43.0	100%	100%	94%	100%	94%
Surgery: Other	9.8	100%	100%	89%	100%	89%
Urology	1.0	100%	100%	100%	100%	100%
Other Specialties	12.8	96%	92%	92%	96%	96%

Only office settings are included (Note 7).
Emergency Medicine and Urgent Care are excluded from this table.
Each site a PA practices in is counted, weighed by FTEs.
Denominators for percentages do not include unknowns.
Medicare does not generally cover pediatric care.
See Note 6 regarding tabulation of availability.

Table 21 -- VT Physician Assistants, 2018
 Plan to Retire, Leave, or Reduce Hours Within 12 months

Specialty	Total PAs	Plan to Retire or Leave VT	Plan to Reduce Hours
TOTAL	355	11	16
PRIMARY CARE	111	4	7
Family Practice	87	4	6
Internal Medicine	16	0	1
Ob/Gyn	2	0	0
Pediatrics	6	0	0
SPECIALTY CARE	244	7	9
Anesthesiology	15	2	1
Dermatology	15	0	1
Emergency Medicine	66	4	2
Hospitalist	6	0	1
Internal Medicine	13	0	0
Psychiatry	4	0	0
Radiology	5	0	0
Surgery: General	3	0	0
Surgery: Orthopedic	47	0	2
Surgery: Other	12	0	1
Urology	2	0	0
Urgent Care	28	0	0
Other Specialties	28	1	1

PAs 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. 8 PAs answered 'yes' to both questions, they are counted here only under 'plan to retire or leave VT'.

Vermont Physician Assistants
by Health Related Geographical Regions

Table 22 -- VT Physician Assistants, 2018
 Numbers of PAs, Full Time Equivalents (FTEs), and
 Total Weekly Patient Care Hours, by Health Care Area

	Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
		<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL		355 291.9 12358	114 87.1 3596	256 204.7 8762
Barre		30 22.1 928	11 8.3 334	21 13.8 595
Bennington		26 17.5 720	6 5.0 199	21 12.5 521
Brattleboro		19 13.6 559	5 2.7 109	15 10.9 449
Burlington		132 107.7 4583	29 20.9 862	104 86.8 3720
Middlebury		15 9.2 420	3 2.4 113	13 6.8 307
Morrisville		6 4.9 197	1 .8 32	5 4.1 165
Newport		9 8.3 334	6 5.4 221	3 2.8 113
Randolph		22 12.8 542	9 6.8 305	13 5.9 237
Rutland		41 33.0 1368	16 13.6 562	27 19.4 806
Springfield		42 27.8 1228	7 5.7 232	36 22.1 996
St. Albans		26 17.8 747	11 8.3 342	17 9.5 405
St. Johnsbury		9 7.3 292	4 2.6 103	5 4.7 189
Upper Valley		1 <.05 1	1 <.05 1	. . .
Windsor		22 9.8 440	6 4.5 181	16 5.3 259

In this table PAs may be counted more than once (Note 3).

Table 23 -- VT Physician Assistants, 2018
 Numbers of Primary Care Providers, 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	114 87.1 3596	90 67.1 2776	17 13.5 558	2 1.5 60	7 5.0 202
Barre	11 8.3 334	11 8.3 334	.. ..	.. ..	.. ..
Bennington	6 5.0 199	4 3.2 127	. . . .	. . . .	2 1.8 72
Brattleboro	5 2.7 109	3 1.6 65	1 1.0 40	. . . .	1 .1 4
Burlington	29 20.9 862	22 15.5 647	5 4.1 163	1 .5 20	1 .8 32
Middlebury	3 2.4 113	3 2.4 113	.. ..	.. ..	.. ..
Morrisville	1 .8 32	1 .8 32	.. ..	.. ..	.. ..
Newport	6 5.4 221	4 4.0 163	1 .5 20	. . . .	1 .9 38
Randolph	9 6.8 305	5 2.6 120	5 3.6 161	. . . .	1 .6 24
Rutland	16 13.6 562	16 13.6 562	.. ..	.. ..	.. ..
Springfield	7 5.7 232	3 2.2 88	3 2.7 112	. . . .	1 .8 32
St. Albans	11 8.3 342	9 6.6 272	1 .8 30	1 1.0 40	.. ..
St. Johnsbury	4 2.6 103	4 2.6 103	.. ..	.. ..	.. ..
Upper Valley	1 <.05 1	1 <.05 1	.. ..	.. ..	.. ..
Windsor	6 4.5 181	5 3.7 149	1 .8 32	.. ..	.. ..

In this table PAs may be counted more than once (Note 3).

Table 24 -- VT Physician Assistants, 2018
 Numbers of Specialty Care Providers, Full Time Equivalents (FTEs),
 and Total Weekly Patient Care Hours, by Health Care Area

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTH- ESIOLOG.	DERMAT- OLOGY	EMERGENCY MEDICINE	URGENT CARE	ORTHOP. SURGERY	OTHER SURGERY	ALL OTHER
STATEWIDE TOTAL	256 204.7 8762	15 13.6 566	15 11.6 480	79 50.3 2278	46 26.2 1138	48 44.6 1845	16 13.0 565	71 45.3 1890
Barre	21 13.8 595	3 .2 8	. . . . .	4 2.5 126	9 6.3 265	2 2.0 81	. . . . .	6 2.7 114
Bennington	21 12.5 521	5 4.3 173	. . . . .	4 1.4 60	8 3.4 138	3 2.9 129	. . . . .	5 .5 21
Brattleboro	15 10.9 449	. . . . .	1 <.05 0	7 4.8 205	1 .1 5	2 2.0 80	. . . . .	4 3.9 160
Burlington	104 86.8 3720	10 9.1 385	13 11.4 470	17 10.5 454	8 5.3 268	19 17.7 734	10 9.7 427	35 23.2 982
Middlebury	13 6.8 307	. . . . .	. . . . .	7 3.0 143	3 .9 37	3 1.9 88	. . . . .	1 1.0 40
Morrisville	5 4.1 165	. . . . .	. . . . .	1 .1 5	. . . . .	4 4.0 160	.. .. .	.. .. .
Newport	3 2.8 113	. . . . .	. . . . .	. . . . .	. . . . .	2 2.0 80	. . . . .	1 .8 33
Randolph	13 5.9 237	. . . . .	. . . . .	. . . . .	. . . . .	1 .9 36	3 1.1 43	9 4.0 158
Rutland	27 19.4 806	. . . . .	. . . . .	6 3.9 165	5 4.0 160	4 3.9 162	1 1.0 45	14 6.7 274
Springfield	36 22.1 996	. . . . .	. . . . .	29 17.1 789	6 2.6 104	2 2.0 80	. . . . .	2 .5 23
St. Albans	17 9.5 405	. . . . .	. . . . .	5 1.1 44	8 3.5 161	4 3.9 156	. . . . .	1 1.0 44
St. Johnsbury	5 4.7 189	. . . . .	. . . . .	1 1.0 39	. . . . .	2 1.5 60	2 1.3 50	1 1.0 40
Upper Valley	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Windsor	16 5.3 259	. . . . .	1 .3 10	15 5.0 249	.. .. .	.. .. .	.. .. .	.. .. .

In this table PAs may be counted more than once (see Note 3).
 'Other Surgery' here includes General Surgery.

Table 25 -- VT Physician Assistants, 2018
 Primary Care Provider FTE to Population Ratios
 by Health Care Area

Health Care Area	FTEs	Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	87.1	623,657	14.0	7,157
Barre	8.3	63,981	13.0	7,685
Bennington	5.0	38,525	12.9	7,744
Brattleboro	2.7	31,574	8.6	11,626
Burlington	20.9	178,218	11.7	8,525
Middlebury	2.4	28,335	8.6	11,588
Morrisville	.8	30,308	2.6	37,885
Newport	5.4	27,735	19.6	5,114
Randolph	6.8	34,923	19.5	5,117
Rutland	13.6	59,778	22.7	4,397
Springfield	5.7	27,604	20.8	4,817
St. Albans	8.3	45,558	18.2	5,485
St. Johnsbury	2.6	27,720	9.2	10,818
Upper Valley	<.05	16,365	.1	
Windsor	4.5	13,033	34.7	2,880

Only primary care PAs are included in this table.
 One Full Time Equivalent (FTE) is 40 (or more) hours per week,
 48 weeks per year or more. The FTEs are rounded to one digit for
 display only - ratios were calculated using the unrounded values.

Population estimates are from the Census Bureau for July 2017
 (Note 4).

Table 26 -- VT Physician Assistants, 2018
 Numbers of PAs, Full Time Equivalents (FTEs), and Total
 Weekly Patient Care Hours, by Local Health District

	Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
		-----	-----	-----
STATEWIDE TOTAL		355 291.9 12358	114 87.1 3596	256 204.7 8762
Barre		30 22.1 928	11 8.3 334	21 13.8 595
Bennington		23 17.3 714	6 5.0 199	18 12.4 515
Brattleboro		21 13.7 565	5 2.7 109	17 11.0 456
Burlington		131 106.7 4543	28 19.9 822	104 86.8 3720
Middlebury		15 9.2 420	3 2.4 113	13 6.8 307
Morrisville		6 4.9 197	1 .8 32	5 4.1 165
Newport		9 8.3 334	6 5.4 221	3 2.8 113
Rutland		41 33.0 1368	16 13.6 562	27 19.4 806
Springfield		51 36.7 1633	11 9.4 378	41 27.4 1255
St. Albans		27 18.8 787	12 9.3 382	17 9.5 405
St. Johnsbury		9 7.3 292	4 2.6 103	5 4.7 189
Wht Rvr Jct		25 13.6 578	13 7.7 341	13 5.9 237

In this table PAs may be counted more than once (Note 3).

Table 27 -- VT Physician Assistants, 2018
 Numbers of Primary Care Providers, Full Time Equivalent (FTEs),
 and Total Weekly Patient Care Hours, by Local Health District

Count FTEs Hours	PRIMARY CARE TOTAL	FAMILY	INTERNAL	OB/GYN	PEDIATRIC
STATEWIDE TOTAL	114 87.1 3596	90 67.1 2776	17 13.5 558	2 1.5 60	7 5.0 202
Barre	11 8.3 334	11 8.3 334	.. .. .	.. .. .	.. .. .
Bennington	6 5.0 199	4 3.2 127	. . . . .	. . . . .	2 1.8 72
Brattleboro	5 2.7 109	3 1.6 65	1 1.0 40	. . . . .	1 .1 4
Burlington	28 19.9 822	22 15.5 647	4 3.1 123	1 .5 20	1 .8 32
Middlebury	3 2.4 113	3 2.4 113	.. .. .	.. .. .	.. .. .
Morrisville	1 .8 32	1 .8 32	.. .. .	.. .. .	.. .. .
Newport	6 5.4 221	4 4.0 163	1 .5 20	. . . . .	1 .9 38
Rutland	16 13.6 562	16 13.6 562	.. .. .	.. .. .	.. .. .
Springfield	11 9.4 378	6 5.0 202	4 3.5 144	. . . . .	1 .8 32
St. Albans	12 9.3 382	9 6.6 272	2 1.8 70	1 1.0 40	.. .. .
St. Johnsbury	4 2.6 103	4 2.6 103	.. .. .	.. .. .	.. .. .
Wht Rvr Jct	13 7.7 341	9 3.5 156	5 3.6 161	. . . . .	1 .6 24

In this table PAs may be counted more than once (Note 3).

Table 28 -- VT Physician Assistants, 2018
 Numbers of Specialty Care Providers, Full Time Equivalents (FTEs),
 and Total Weekly Patient Care Hours, by Local Health District

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTH- ESIOLOG.	DERMAT- OLOGY	EMERGENCY MEDICINE	URGENT CARE	ORTHOP. SURGERY	OTHER SURGERY	ALL OTHER
STATEWIDE TOTAL	256 204.7 8762	15 13.6 566	15 11.6 480	79 50.3 2278	46 26.2 1138	48 44.6 1845	16 13.0 565	71 45.3 1890
Barre	21 13.8 595	3 .2 8	. . . .	4 2.5 126	9 6.3 265	2 2.0 81	. . . .	6 2.7 114
Bennington	18 12.4 515	5 4.3 173	. . . .	2 1.3 56	7 3.4 137	3 2.9 129	. . . .	4 .5 20
Brattleboro	17 11.0 456	. . . .	1 <.05 0	9 4.9 209	2 .2 7	2 2.0 80	. . . .	5 3.9 160
Burlington	104 86.8 3720	10 9.1 385	13 11.4 470	17 10.5 454	8 5.3 268	19 17.7 734	10 9.7 427	35 23.2 982
Middlebury	13 6.8 307	. . . .	. . . .	7 3.0 143	3 .9 37	3 1.9 88	. . . .	1 1.0 40
Morrisville	5 4.1 165	. . . .	. . . .	1 .1 5	. . . .	4 4.0 160	.. ..	.. ..
Newport	3 2.8 113	. . . .	. . . .	. . . .	. . . .	2 2.0 80	. . . .	1 .8 33
Rutland	27 19.4 806	. . . .	. . . .	6 3.9 165	5 4.0 160	4 3.9 162	1 1.0 45	14 6.7 274
Springfield	41 27.4 1255	. . . .	1 .3 10	33 22.1 1038	6 2.6 104	2 2.0 80	. . . .	2 .5 23
St. Albans	17 9.5 405	. . . .	. . . .	5 1.1 44	8 3.5 161	4 3.9 156	. . . .	1 1.0 44
St. Johnsbury	5 4.7 189	. . . .	. . . .	1 1.0 39	. . . .	2 1.5 60	2 1.3 50	1 1.0 40
Wht Rvr Jct	13 5.9 237	. . . .	. . . .	. . . .	. . . .	1 .9 36	3 1.1 43	9 4.0 158

In this table PAs may be counted more than once (see Note 3).
 'Other Surgery' here includes General Surgery.

Table 29 -- VT Physician Assistants, 2018
 Primary Care Provider FTE to Population Ratios
 by Local Health District

District	FTEs	Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	87.1	623,657	14.0	7,157
Barre	8.3	65,544	12.7	7,873
Bennington	5.0	35,594	14.0	7,155
Brattleboro	2.7	35,052	7.7	12,906
Burlington	19.9	162,340	12.3	8,155
Middlebury	2.4	36,648	6.7	14,988
Morrisville	.8	31,196	2.6	38,995
Newport	5.4	27,735	19.6	5,114
Rutland	13.6	59,247	22.9	4,358
Springfield	9.4	32,753	28.6	3,492
St. Albans	9.3	56,023	16.6	6,021
St. Johnsbury	2.6	33,900	7.6	13,229
Wht Rvr Jct	7.7	47,625	16.2	6,174

Only primary care PAs are included in this table.
 One Full Time Equivalent (FTE) is 40 (or more) hours per week,
 48 weeks per year or more. The FTEs are rounded to one digit for
 display only - ratios were calculated using the unrounded values.

Population estimates are from the Census Bureau for July 2017
 (Note 4).

Vermont Physician Assistants
Comparisons Between 2008, 2016 and 2018

Table 30 -- VT PAs, 2016 and 2018
 Changes in Number of PAs, Patient Care Hours
 and Specialties, between 2016 and 2018

	2016	2018	Change	
			#	%
TOTAL	308	355	+47	+15%
Main specialty:				
Primary Care Total	106	111	+5	+5%
Family Practice	83	87	+4	+5%
Internal Medicine	16	16	0	0%
Ob/Gyn	2	2	0	0%
Pediatrics	5	6	+1	+20%
Specialty Care Total	202	244	+42	+21%
Anesthesiology	14	15	+1	+7%
Dermatology	12	15	+3	+25%
Emergency Medicine	58	66	+8	+14%
Hospitalist	4	6	+2	+50%
Internal Medicine	8	13	+5	+63%
Psychiatry	4	4	0	0%
Radiology	3	5	+2	+67%
Surgery: General	4	3	-1	-25%
Surgery: Orthopedic	43	47	+4	+9%
Surgery: Other	9	12	+3	+33%
Urology	2	2	0	0%
Urgent Care	20	28	+8	+40%
Other Specialties	21	28	+7	+33%
Age groups:				
younger than 35	71	95	+24	+34%
35 - 44	78	92	+14	+18%
45 - 54	82	90	+8	+10%
55 - 64	50	55	+5	+10%
65 and older	27	23	-4	-15%
Gender:				
Male	119	132	+13	+11%
Female	189	222	+33	+17%
Patient care hours:				
40 or more hours/week	139	158	+19	+14%
30 to under 40 hours/week	94	124	+30	+32%
less than 30 hours/week	75	73	-2	-3%

Table 31 -- VT PAs, 2016 and 2018
Full Time Equivalents (FTEs) by County

PRIMARY CARE:	2016	2018	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	82.5	87.1	+4.6
Addison County	1.5	2.4	+.9
Bennington County	4.2	5.0	+.8
Caledonia County	.7	.2	-.5
Chittenden County	21.9	19.9	-2.0
Essex County	2.5	4.4	+1.9
Franklin County	9.2	8.8	-.4
Grand Isle County	.	.5	+.5
Lamoille County	.	.8	+.8
Orange County	2.9	2.7	-.2
Orleans County	4.9	3.4	-1.5
Rutland County	10.5	13.6	+3.1
Washington County	8.5	8.3	-.2
Windham County	4.9	5.7	+.8
Windsor County	10.8	11.4	+.6
SPECIALTY CARE:	2016	2018	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	171.9	204.7	+32.8
Addison County	4.6	6.8	+2.2
Bennington County	7.5	12.4	+4.9
Caledonia County	3.0	4.7	+1.7
Chittenden County	77.1	86.8	+9.7
Essex County	.	.	.
Franklin County	7.6	9.5	+1.9
Grand Isle County	.	.	.
Lamoille County	4.6	4.1	-.5
Orange County	3.6	4.0	+.4
Orleans County	1.1	2.8	+1.7
Rutland County	12.7	19.4	+6.7
Washington County	13.8	13.8	.
Windham County	15.5	12.7	-2.8
Windsor County	20.8	27.7	+6.9

Table 32 -- VT PAs, 2008 and 2018
 Changes in Number of PAs, Patient Care Hours
 and Specialties, between 2008 and 2018

	2008	2018	Change	
			#	%
TOTAL	191	355	+164	+86%
Main specialty:				
Primary Care Total	85	111	+26	+31%
Family Practice	58	87	+29	+50%
Internal Medicine	15	16	+1	+7%
Ob/Gyn	9	2	-7	-78%
Pediatrics	3	6	+3	+100%
Specialty Care Total	106	244	+138	+130%
Anesthesiology	0	15	+15	.
Dermatology	8	15	+7	+88%
Emergency Medicine	35	66	+31	+89%
Hospitalist	0	6	+6	
Internal Medicine	9	13	+4	+44%
Psychiatry	3	4	+1	+33%
Radiology	2	5	+3	+150%
Surgery: General	3	3	0	0%
Surgery: Orthopedic	23	47	+24	+104%
Surgery: Other	8	12	+4	+50%
Urology	4	2	-2	-50%
Urgent Care	0	28	+28	
Other Specialties	11	28	+17	+155%
Age groups:				
younger than 35	29	95	+66	+228%
35 - 44	67	92	+25	+37%
45 - 54	48	90	+42	+88%
55 - 64	47	55	+8	+17%
65 and older	0	23	+23	
Gender:				
Male	81	132	+51	+63%
Female	110	222	+112	+102%
Patient care hours:				
40 or more hours/week	115	158	+43	+37%
30 to under 40 hours/week	30	124	+94	+313%
less than 30 hours/week	46	73	+27	+59%

Table 33 -- VT PAs, 2008 and 2018
Full Time Equivalents (FTEs) by County

PRIMARY CARE:	2008	2018	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	64.8	87.1	+22.3
Addison County	.9	2.4	+1.5
Bennington County	3.9	5.0	+1.1
Caledonia County	2.0	.2	-1.8
Chittenden County	15.6	19.9	+4.3
Essex County	1.0	4.4	+3.4
Franklin County	8.6	8.8	+.2
Grand Isle County	.8	.5	-.3
Lamoille County	.	.8	+.8
Orange County	2.6	2.7	+.1
Orleans County	3.9	3.4	-.5
Rutland County	8.0	13.6	+5.6
Washington County	8.6	8.3	-.3
Windham County	3.6	5.7	+2.1
Windsor County	5.3	11.4	+6.1
SPECIALTY CARE:	2008	2018	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	93.9	204.7	+110.8
Addison County	2.9	6.8	+3.9
Bennington County	3.4	12.4	+9.0
Caledonia County	3.1	4.7	+1.6
Chittenden County	43.4	86.8	+43.4
Essex County	.	.	.
Franklin County	1.1	9.5	+8.4
Grand Isle County	.	.	.
Lamoille County	2.7	4.1	+1.4
Orange County	2.9	4.0	+1.1
Orleans County	1.3	2.8	+1.5
Rutland County	7.4	19.4	+12.0
Washington County	5.5	13.8	+8.3
Windham County	4.8	12.7	+7.9
Windsor County	15.4	27.7	+12.3

Appendices

Appendix A. General Notes and Terms

Definition of Active Physician Assistant

A physician assistant (PA) who was relicensed for the period 2018-2019 in Vermont, and who provided patient care hours in Vermont (not as locum tenens) as reported in the census, is considered an active physician assistant. This includes anesthesiologist assistants (AA) and radiologist assistants (RA).

Physician assistants not represented in these tables

Only *active* PAs are reported. Those (few) who hold a Vermont license but are not actively in practice in Vermont are excluded from all tables.

Specialties

Physician assistants reported their specialties using a predefined list. See Table 13 for the exact specialties reported. For the rest of the tables the detailed specialties were grouped in the following way:

Primary Care

- Family Practice includes general practice, family medicine, and geriatric medicine – but only if practiced in a “medical home” setting – not inpatient and not walk-in or urgent care.
- Internal Medicine includes general internal medicine and geriatric internal medicine.
- Obstetrics and Gynecology (Ob/Gyn) includes physician assistants who reported a solely gynecological practice or a solely obstetrical practice, along with those who reported both obstetrics and gynecology.
- Pediatrics includes pediatric primary care as well as adolescent medicine.

Specialty Care

- Hospitalist – now considered a specialty
- Internal Medicine includes several internal medicine subspecialties
- Other Surgery includes most other (non-orthopedic) surgical specialties, such as general vascular surgery, abdominal surgery, cardiovascular surgery, colon and rectal surgery, neurological surgery, oral and maxillofacial surgery, pediatric surgery, surgical critical care, thoracic surgery, and traumatic surgery.
- Urgent Care includes family and internal medicine and general practice in the urgent care setting.
- Other Specialties includes all specialties not listed above, including family medicine and general practice in non-primary-care settings.

Determination of a physician assistant’s main specialty

A PA’s “main” specialty is the specialty group in which the PA works the most hours. In case of a tie (equal hours reported 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 specific 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:	Primary Care	48	10	0.25
	Specialty Care	48	10	0.25
	Total		20	0.50
Example 2:	Primary Care	52	10	0.27
	Specialty Care	52	10	0.27
	Total		20	0.54
Example 3:	Primary Care	52	20	0.50
	Specialty Care	52	20	0.50
	Total		40	1.00
Example 4:	Primary Care	48	35	0.50
	Specialty Care	24	70	0.50
	Total		70	1.00

In the first example, the physician assistant works half-time and has hours split equally between primary and specialty care. The second example is similar except for the number of weeks being more than 48 so the FTEs are adjusted upwards. The pattern is the same in Example 3, except the hours total 40 for 1.0 FTE, and the adjustment for 52 weeks does not matter since the total FTE for a person is never more than 1.0. In the fourth example the physician assistant spends an average of 70 hours per week in patient care: 35 hours of primary care every week, and 70 hours of specialty care in each of only 24 weeks per year. This is calculated as 1.0 FTE total, and 0.5 FTE for each of primary care and specialty care.

Health Care Areas

In this report we use Health Care Areas (HCAs) as defined by the Vermont Blueprint for Health rather than Hospital Service Areas (HSAs). 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 E.

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

Main county is the county in which the physician assistant practices the greatest number of patient care hours. Similarly for main hospital service area, etc.

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 physician assistants are exact integers, however, and should add up to displayed totals.

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

Most of the tables contain information that is individual-based (e.g., age, sex, and board certification). Each PA 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 PAs in more than one row or column, e.g., in every county the PA 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.

Urgent Care

“Urgent Care” is used in three different ways in this report. First, it is a *setting*, such as “walk-in” and “express care” centers. Second, it was reported as a *specialty*, although it is not a board-certified specialty for PAs at this time. A few PAs reported the urgent care specialty in settings other than urgent care, e.g., emergency departments and ski areas. Third, it appears in this report as a *specialty group*, which includes the urgent care specialty (in any setting), along with family medicine, internal medicine, and general practice where reported in the urgent care setting.

Note that in the 2016 report the urgent care specialty group did not include the other specialties in the urgent care setting as was done in this report. Thus the 2016 numbers in the Summary, and in Table 30, of this report differ slightly from the 2016 report.

Appendix B. Notes for specific tables

1. Calculation of Age

Ages are computed as 2018 minus the year of the DOB. Ages in earlier years, referred to in some tables, are as of those earlier times.

2. “Main” Specialty and “Main” County determined independently

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

3. Notes regarding tables listing physician assistant Full Time Equivalent (FTE) and Hours by County or by other geographical areas:

These tables count each physician assistant who provides primary and/or specialty care in that county or area. The same physician assistant may be counted in more than one town, more than one area, and in both the “primary” and “specialty” columns.

Because of this inclusive approach taken in tallying physician assistants across many practice locations, 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 the area totals which sum the town-level physician assistant counts, the state totals which sum the area-level counts, and the “Total” of primary and secondary care combined. Unlike the totals for the counts of physician assistants, 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 error).

See also Note 9 regarding the calculation of weekly hours and FTEs.

4. Population Estimates

Population estimates are for July 1, 2017, as released by the Census Bureau. (Estimates for 2018 are not yet available as of the publication of this report.)

5. “Main” Setting and “Main” Specialty determined independently

Each PA’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 PA will be counted. Secondary settings and specialties are ignored. A PA may practice their main specialty primarily in a setting other than their main overall setting, but that is ignored in this table.

6. Notes regarding Availability of Care

The survey form allowed the physician assistant to answer the questions whether they accept new patients (“availability”) separately for each site.

In the table depicting availability of care by specialty by person, each PA is counted once, in his or her main specialty. A PA 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 table depicting availability of care by specialty by FTE, all sites are counted, but weighted by FTE.

Emergency medicine, pathology, radiology, urgent care, and hospitalist specialties are excluded regardless of setting. The following specialties are excluded from the “accept Medicare patients” statistic (both numerator and denominator): all pediatric specialties (including adolescent medicine), maternal & fetal medicine, reproductive endocrinology, and child and adolescent psychiatry.

7. Practice settings included

Only office-based settings were counted for this purpose. This includes solo practice, group practice (single- or multi-specialty), community clinics, hospital outpatient and ambulatory care centers, and those who indicated both inpatient and outpatient work.

8. 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

9. Patient Care Hours

"Full Time" is defined as 40 (or more) hours of direct patient care per week, for 48 or more weeks per year, in Vermont. Average weekly hours (and FTEs), based on 48 weeks per year, were computed for PAs 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 PAs provide additional patient care outside Vermont, or do other types of work besides direct patient care.

Appendix C:

Vermont Physician Assistant Census 2018

- 1) First Name* _____
- 2) Middle Name (if any) _____
- 3) Last Name* _____
- 4) Vermont Physician Assistant, Anesthesiologist, or Radiologist Assistant License Number* _____

Demographics

- 5) Date of birth (M/D/YYYY)* _____
- 6) Gender Male Female Other
- 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?

- Yes No Prefer not to answer

Training

9) Which of the following describes the degree or certificate you were awarded upon completion of your physician, anesthesiologist, or radiologist assistant training?

- Certificate / Diploma
- Associate degree
- Bachelor's degree
- Master's degree
- Other (specify): _____*

10) Please enter the two letter code for the state where you completed your Physician Assistant (PA)/ Anesthesiologist Assistant (AA)/ Radiologist Assistant (RA) education: (Use 2-letter abbreviations for states; CC for Canada, XX for other foreign countries) _____

11) Are you certified by the National Commission on Certification of Physician Assistants (NCCPA)? Yes No

12) Have you completed Physician Assistant/AA/RA post-graduate training? Yes No

13) Have you completed specialty certification? Yes No

14) In what year did you start practicing (anywhere) as a Physician Assistant/AA/RA? (if never, leave blank) _____

15) Please check all of the boxes that describe your work as a Physician Assistant/AA/RA:*

- Working IN VERMONT as a PA/AA/RA
 - Working OUTSIDE Vermont as a PA/AA/RA
 - Working in a position that does not require a PA license
 - Not currently working
 - Retired
-

[if not working in Vermont]

17) Do you plan to start (or resume) work and/or clinical practice in Vermont within the next 12 months? Yes No

[skip to “final comments” page]

Active in Clinical Practice

18) In what year did you start practicing as a Physician Assistant in Vermont? (if never, leave blank) _____

19) Do you have a (personal) NPI? Yes No

[if yes:] Please enter your (personal) NPI: _____

20) Do you plan to retire, or stop practicing in Vermont within the next 12 months? Yes No

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

Yes No

The following questions are about your direct patient care practice sites **over the previous year**. If you have more than one location in Vermont where you practice, please enter the information on a separate page for each location. This page is for the first (principal) site. Additional pages will appear later as needed. If practicing in two settings within the same town, enter as separate "sites".

Practice Site 1 (your principal clinical practice site):

22) Vermont town name (not a mailing address):*

23) ZIP code of practice location (not a mailing address):*

24) Phone number of this practice location (the public access number):* _____

25) Practice name: _____

26) Street Address: _____

27) Who owns this practice?

- Privately owned - single site
- Privately owned - multiple sites
- Academic hospital owned
- Other hospital owned
- FQHC
- Other - please specify:

_____*

28) 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 inpatient department
- Hospital outpatient department
- Hospital BOTH inpatient and outpatient departments
- Hospital emergency department
- Urgent care / walk in
- Federal or community health center
- Community mental health center / clinic / agency
- Substance abuse / addiction clinic
- Clinic serving students in a school or college
- Telemedicine
- Other - please specify: _____*

The following questions are about direct patient care:

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

30) Main specialty you practice here: [2-stage dropdown list]

31) If you selected "not listed specialty", please explain:

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

33) Secondary specialty you practice here, if any: [2-stage dropdown list]

34) If you selected "not listed specialty", please explain:

35) Hours per working week here in direct patient care in secondary specialty, if any: _____

36) Tertiary specialty you practice here, if any: [2-stage dropdown list]

37) Hours per working week in direct patient care in tertiary specialty, if any _____

38) Are you required to hold hospital privileges at this site?

- Yes No

39) Do you admit your own patients at this site or are patients admitted through your attending physician?

- Admit own patients
- Patients are admitted through attending physician
- Don't know

40) 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I participate in Medicaid here	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I will accept new Medicaid patients here	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I participate in Medicare here	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I will accept new Medicare patients here	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

41) Do you work as a locum tenens Physician Assistant/AA/RA with a contract term of less than 12 months at this site? (A locum tenens is an employee contracted through a staffing firm or is a self-employed contractor)

Yes No Don't Know

[if yes:] Have you worked here on a locum tenens basis for more than a year? Yes No

42) Does your work site accept Physician Assistant/AA/RA students? Yes No

43) The following questions are about hours worked per week at this site in activities *other than* direct patient care:

	Hours per working week
Administration	
Teaching	
Research	
Quality improvement or patient safety activities	
Other activities	

Please describe these other activities, if any:

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

[similar questions for additional practice sites]

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 Medicine	4022 Orthopedic Surgery Of The Spine
0604 Adolescent Medicine (FM)	4023 Orthopedic Trauma
0602 Geriatric Medicine (FM)	4027 Pediatric Orthopedics
0603 Sports Medicine (FM)	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	Osteopathic Manipulative 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	4041	Urgent Care
2006	Forensic Psychiatry		
2007	Geriatric Psychiatry	9999	Other - Please Specify
2009	Neurodevelopmental Disabilities		

CODES CONTINUED ON FRONT

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



Appendix F: Local Health Districts

