

Vermont Department of Health

Physician Assistants

2014 Survey

Statistical Report



# 2014 Physician Assistants Survey

## Statistical Report

State of Vermont  
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Agency of Human Services  
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Department of Health  
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March, 2016

## Acknowledgments

This report would not have been possible without the cooperation of the Vermont Board of Medical Practice. We gratefully acknowledge their assistance in the collection of this information.

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 2014; 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 – also including anesthesiologist assistants and radiologist assistants) who renewed their license as of the end of January, 2014. A link to the online Workforce Census form was included in the online relicensing conducted by the Vermont Board of Medical Practice in the November 2013 through January 2014 period. The questions asked are included in this report as Appendix C. Follow-up mailings were made to those PAs who did not return the survey or did not answer critical questions. All potentially active PAs relicensed at the time were reached, thus the response rate was 100%.

Included in this report are physician assistants who provide patient care in Vermont. Like the 2012 report (but unlike those for 2004-2010), anesthesiology assistants (AAs), which have been a separate license type since after 2002, are included in this report. A number of PAs maintain Vermont licenses even though they do not practice in Vermont. Those PAs are excluded from this report.

This is the tenth bi-annual survey of physician assistants. Results from the previous surveys 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> – under Publications / Health Reports / Health Care Provider Surveys.

Limitations: The surveys were reviewed for accuracy and consistency during the data entry and processing phases. Missing and/or inconsistent data items were evaluated as to their importance. For those data items that were determined to be essential, such as specialty or number of patient care hours, follow-up by phone and/or mail was conducted. Other data were inferred from other data sources or reported as missing. 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.



## Summary

- This report includes data reported by 264 physician assistants providing patient care in Vermont as of January, 2014. This includes anesthesiologist assistants.
- 103 (39%) of the physician assistants work mainly in primary care including:
  - 76 Family Practice Medicine
  - 18 Primary Care Internal Medicine
  - 5 Obstetrics and Gynecology
  - 4 Pediatric Primary Care
- 161 (61%) physician assistants provide mainly specialty care including:
  - 53 Surgery (43 orthopedic, 2 general, 8 other)
  - 45 Emergency Medicine
  - 10 Anesthesiology
  - 10 Dermatology
  - 7 Specialty Internal Medicine
  - 36 other specialties
- Of the PAs in primary care, 22% are age 60 or older, compared to 9% of those in specialty care
- Of the 264 physician assistants, 162, or 61%, are women
- 46% of the women practice primary care, while 27% of the men practice primary care
- The 264 physician assistants represent the equivalent of 219.2 full-time providers (FTEs, defined as 40 or more hours of patient care per week). This includes 80.0 FTEs in primary care and 139.2 FTEs in specialty care
- 27% of the primary care, and 50% of the specialty care, FTEs are in Chittenden County
- 42% of all physician assistants work full-time (40 hours per week or more) - 28% of primary care providers and 51% of specialty care providers work full time
- Between 2012 and 2014 the number of physician assistants in primary care increased from 98 to 103, and the number in specialty care increased from 142 to 161
- Between 2004 and 2014 the number of physician assistants in primary care increased from 79 to 103, and the number in specialty care increased from 76 to 161

## Comparison of Selected Physician Assistant Data, 2000-2014 \*\*

	2000	2004	2008	2010	2012	2014
Total physician assistants active in VT	117	155	191	202	240	264
Percent female	56%	56%	58%	60%	57%	61%
Percent age 55 or older	7%	15%	25%	23%	23%	25%
Average patient care hours per week	34	37	36	36	35	35
Primary care PAs	70	79	85	83	98	103
Family Practice	51	55	58	60	77	76
Internal Medicine	7	10	15	11	12	18
Ob/Gyn	9	10	9	6	6	5
Pediatric Primary Care	3	4	3	6	3	4
% accepting new patients *	95%	97%	85%	82%	88%	83%
accepting new Medicaid patients *	89%	92%	66%	73%	78%	80%
accepting new Medicare patients *	93%	94%	77%	73%	82%	77%
Specialty care PAs **	47	76	106	119	142	161
Anesthesiology **					12	10
Emergency Medicine	25	37	35	40	43	45
Internal Medicine	1	5	9	11	10	7
Orthopedic Surgery	5	14	23	25	33	43
Primary care PA FTEs	50.9	62.3	64.8	67.0	76.6	80.0
Family Practice	39.3	45.4	46.0	49.3	62.5	59.7
Internal Medicine	4.7	7.5	11.8	9.4	8.6	13.1
Ob/Gyn	5.5	5.6	4.8	4.4	3.6	3.7
Pediatric Primary Care	1.4	3.9	2.1	3.9	1.9	3.4
FTEs/100,000 population	8.4	10.0	10.4	10.8	12.2	12.8
Specialty care PA FTEs **	42.1	69.2	93.9	105.7	123.3	139.2
Anesthesiology **					11.3	9.6
Emergency Medicine	21.8	33.8	31.2	32.4	34.2	34.4
Internal Medicine	1.1	4.8	8.1	9.6	7.9	5.9
Orthopedic Surgery	4.6	12.9	20.7	23.5	31.6	39.0

\* Each PA is counted only once (in each year).

See Note 10 in Appendix B on tabulation of availability of care.

\*\* Anesthesiologist assistants not included before 2012.

# Vermont Physician Assistants' Demographic Characteristics



Table 1 -- VT Physician Assistants, 2014  
 Summary of Active Physician Assistants

TOTAL	264	(100%)
Main specialty:		
Primary Care Total	103	( 39%)
Family Practice	76	( 29%)
Primary Care Internal Medicine	18	( 7%)
Obstetrics and Gynecology	5	( 2%)
Pediatric Primary Care	4	( 2%)
Specialty Care Total	161	( 61%)
Anesthesiology	10	( 4%)
Dermatology	10	( 4%)
Emergency Medicine	45	( 17%)
Hospitalist	5	( 2%)
Internal Medicine Specialties	7	( 3%)
Psychiatry	3	( 1%)
Radiology	3	( 1%)
Surgery: General	2	( 1%)
Surgery: Orthopedic	43	( 16%)
Surgery: Other	8	( 3%)
Urology	3	( 1%)
Other Specialties	22	( 8%)
Age groups:		
younger than 30	25	( 9%)
30 - 39	69	( 26%)
40 - 49	77	( 29%)
50 - 54	28	( 11%)
55 - 59	28	( 11%)
60 - 64	24	( 9%)
65 and older	13	( 5%)
Gender:		
Male	102	( 39%)
Female	162	( 61%)
Patient care hours:		
40 or more hours/week	111	( 42%)
30 to 39 hours/week	95	( 36%)
less than 30 hours/week	58	( 22%)
Number of practice sites:		
One	228	( 86%)
Two	32	( 12%)
Three or more	4	( 2%)

Table 2 -- VT Physician Assistants, 2014  
Age by Specialty and by Gender

	Total	Number in Age Group			Age 60+
		<40	40-59	60+	(%)
TOTAL	264	94	133	37	14%
MALES	102	27	53	22	22%
FEMALES	162	67	80	15	9%
PRIMARY CARE	103	32	48	23	22%
Family Practice	76	25	35	16	21%
Internal Medicine	18	4	8	6	33%
Ob/Gyn	5	1	3	1	20%
Pediatrics	4	2	2	.	.
SPECIALTY CARE	161	62	85	14	9%
Anesthesiology	10	2	8	.	.
Dermatology	10	4	6	.	.
Emergency Medicine	45	15	21	9	20%
Hospitalist	5	2	3	.	.
Internal Medicine	7	2	4	1	14%
Psychiatry	3	1	2	.	.
Radiology	3	.	3	.	.
Surgery: General	2	.	2	.	.
Surgery: Orthopedic	43	20	21	2	5%
Surgery: Other	8	4	3	1	13%
Urology	3	1	2	.	.
Other Specialties	22	11	10	1	5%
	Total	Percent in Age Group			Age 60+
		<40	40-59	60+	(%)
TOTAL	100%	36%	50%	14%	14%
MALES	100%	26%	52%	22%	22%
FEMALES	100%	41%	49%	9%	9%
PRIMARY CARE	100%	31%	47%	22%	22%
SPECIALTY CARE	100%	39%	53%	9%	9%

Table 3 -- VT Physician Assistants, 2014  
Specialty by Gender

Specialty	Total	Male	Female	Percent Female
TOTAL	264	102	162	61%
PRIMARY CARE	103	28	75	73%
Family Practice	76	24	52	68%
Internal Medicine	18	4	14	78%
Ob/Gyn	5	.	5	100%
Pediatrics	4	.	4	100%
SPECIALTY CARE	161	74	87	54%
Anesthesiology	10	6	4	40%
Dermatology	10	2	8	80%
Emergency Medicine	45	32	13	29%
Hospitalist	5	2	3	60%
Internal Medicine	7	3	4	57%
Psychiatry	3	.	3	100%
Radiology	3	2	1	33%
Surgery: General	2	1	1	50%
Surgery: Orthopedic	43	20	23	53%
Surgery: Other	8	4	4	50%
Urology	3	.	3	100%
Other Specialties	22	2	20	91%

Table 4 -- VT Physician Assistants, 2014  
Age by County

County	Total	Number in Age Group			Age 60+
		<40	40-59	60+	(%)
STATEWIDE TOTAL					
Total	264	94	133	37	14%
Primary Care	103	32	48	23	22%
Specialists	161	62	85	14	9%
Addison County					
Primary Care	3	.	3	.	.
Specialists	4	1	3	.	.
Bennington County					
Primary Care	6	3	.	3	50%
Specialists	4	2	1	1	25%
Caledonia County					
Primary Care	1	.	1	.	.
Specialists	4	2	2	.	.
Chittenden County					
Primary Care	28	9	15	4	14%
Specialists	77	34	41	2	3%
Essex County					
Primary Care	3	2	.	1	33%
Specialists	0	.	.	.	.
Franklin County					
Primary Care	13	9	4	.	.
Specialists	6	3	2	1	17%
Grand Isle County					
Primary Care	0	.	.	.	.
Specialists	0	.	.	.	.
Lamoille County					
Primary Care	0	.	.	.	.
Specialists	5	3	1	1	20%
Orange County					
Primary Care	2	.	1	1	50%
Specialists	6	.	6	.	.
Orleans County					
Primary Care	4	1	2	1	25%
Specialists	2	1	1	.	.
Rutland County					
Primary Care	11	.	7	4	36%
Specialists	13	7	4	2	15%
Washington County					
Primary Care	14	2	9	3	21%
Specialists	6	.	4	2	33%
Windham County					
Primary Care	8	3	2	3	38%
Specialists	8	1	5	2	25%
Windsor County					
Primary Care	10	3	4	3	30%
Specialists	26	8	15	3	12%

Each PA is counted once in this table, in his or her main specialty group, and, independently, main county of practice (see Note 2).

Table 5 -- VT Physician Assistants, 2014  
Education and Training

	PRIMARY CARE	SPECIALTY CARE
	-----	-----
TOTAL	103	161
Region where trained: *		
VT	3%	2%
NH	12%	12%
New England	27%	25%
Mid Atlantic	32%	32%
South	16%	19%
Central	3%	6%
West	7%	3%
unknown	1	.
Degree awarded:		
Certificate	22%	14%
Associate Degree	7%	4%
Bachelor	19%	15%
Master	50%	66%
other	1%	.
Certified by the NCCPA:	96%	95%
Completed post-graduate training:	22%	19%
Completed specialty certification:	3%	10%

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

Table 6 -- VT Physician Assistants, 2014  
Years in Clinical Practice

In Clinical Practice	PRIMARY CARE		SPECIALTY CARE	
	Anywhere	In Vermont	Anywhere	In Vermont
less than a year	4 ( 4%)	8 ( 8%)	5 ( 3%)	15 ( 9%)
1 or 2 years	12 (12%)	17 (17%)	19 (12%)	20 (12%)
3 or 4 years	8 ( 8%)	11 (11%)	8 ( 5%)	18 (11%)
5 to 9 years	13 (13%)	16 (16%)	42 (26%)	47 (29%)
10 to 14 years	21 (20%)	14 (14%)	36 (22%)	25 (16%)
15 to 19 years	13 (13%)	15 (15%)	18 (11%)	14 ( 9%)
20 to 24 years	6 ( 6%)	8 ( 8%)	12 ( 7%)	8 ( 5%)
25 to 29 years	8 ( 8%)	7 ( 7%)	8 ( 5%)	8 ( 5%)
30 years or more	18 (17%)	7 ( 7%)	12 ( 7%)	5 ( 3%)
unknown	0	0	1	1
Total	103	103	161	161
Median years	13	9	10	7

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



Table 7 -- VT Physician Assistants, 2014  
Full Time Equivalent (FTEs) by Age and Gender by Specialty

	Total	FTEs in Age Group			Age 60+
		<40	40-59	60+	(%)
TOTAL	219.2	81.9	110.4	27.0	12%
MALES	87.7	24.9	46.0	16.8	19%
FEMALES	131.5	57.0	64.4	10.2	8%
PRIMARY CARE	80.0	26.4	37.1	16.4	21%
Family Practice	59.7	20.0	27.8	11.9	20%
Internal Medicine	13.1	3.4	5.8	3.9	30%
Ob/Gyn	3.7	1.0	2.1	.6	17%
Pediatrics	3.4	2.0	1.4	.	.
SPECIALTY CARE	139.2	55.4	73.2	10.6	8%
Anesthesiology	9.6	1.9	7.7	.	.
Dermatology	9.6	3.9	5.7	.	.
Emergency Medicine	34.4	12.9	16.2	5.3	15%
Hospitalist	4.4	1.6	2.9	.	.
Internal Medicine	5.9	1.8	3.1	1.0	17%
Psychiatry	2.9	.9	2.0	.	.
Radiology	2.8	.	2.8	.	.
Surgery: General	2.1	.	2.1	<.05	.
Surgery: Orthopedic	39.0	19.4	17.7	1.9	5%
Surgery: Other	6.8	3.1	2.8	1.0	15%
Urology	3.1	1.0	2.1	.	.
Other Specialties	18.7	9.0	8.3	1.4	7%
	Total	% of total FTEs in Age Group			Age 60+
		<40	40-59	60+	(%)
TOTAL	100%	37%	50%	12%	12%
MALES	100%	28%	52%	19%	19%
FEMALES	100%	43%	49%	8%	8%
PRIMARY CARE	100%	33%	46%	21%	21%
SPECIALTY CARE	100%	40%	53%	8%	8%

Table 8 -- VT Physician Assistants, 2014  
Full Time Equivalents (FTEs) by Age by County

County	Total	FTEs in Age Group			Age 60+
		<40	40-59	60+	(%)
STATEWIDE TOTAL					
Total	219.2	81.9	110.4	27.0	12%
Primary Care	80.0	26.4	37.1	16.4	21%
Specialists	139.2	55.4	73.2	10.6	8%
Addison County					
Primary Care	2.4	.	2.4	.	.
Specialists	2.9	1.0	1.9	.	.
Bennington County					
Primary Care	4.7	2.7	.	2.1	44%
Specialists	3.9	1.9	1.0	1.0	26%
Caledonia County					
Primary Care	1.0	.	1.0	.	.
Specialists	3.9	1.9	2.0	.	.
Chittenden County					
Primary Care	21.7	7.3	11.4	3.0	14%
Specialists	69.7	30.9	36.9	1.9	3%
Essex County					
Primary Care	2.5	1.7	.	.9	34%
Specialists	.	.	.	.	.
Franklin County					
Primary Care	11.0	7.8	3.2	.	.
Specialists	5.9	3.1	1.9	.9	15%
Grand Isle County					
Primary Care	.3	.	.3	.	.
Specialists	.	.	.	.	.
Lamoille County					
Primary Care	.	.	.	.	.
Specialists	3.3	2.0	1.0	.2	7%
Orange County					
Primary Care	1.7	.	.9	.9	50%
Specialists	5.0	.	5.0	.	.
Orleans County					
Primary Care	3.5	1.0	1.5	1.0	28%
Specialists	2.0	1.0	1.0	.	.
Rutland County					
Primary Care	8.5	.	5.8	2.7	32%
Specialists	11.6	6.0	3.3	2.3	20%
Washington County					
Primary Care	11.2	1.9	6.9	2.4	22%
Specialists	4.7	.1	3.2	1.4	29%
Windham County					
Primary Care	5.3	1.8	1.2	2.4	45%
Specialists	5.3	.8	3.4	1.1	20%
Windsor County					
Primary Care	6.3	2.5	2.7	1.2	19%
Specialists	21.1	6.7	12.6	1.9	9%

Table 9 -- VT Physician Assistants, 2014  
 Numbers of PAs, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by County

Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL	264 219.2 9199	107 80.0 3315	173 139.2 5884
Addison County	8 5.3 232	3 2.4 100	6 2.9 132
Bennington County	10 8.6 351	6 4.7 189	4 3.9 162
Caledonia County	5 4.9 232	1 1.0 46	4 3.9 187
Chittenden County	107 91.4 3829	31 21.7 915	81 69.7 2913
Essex County	3 2.5 100	3 2.5 100	. . . .
Franklin County	22 16.9 709	14 11.0 440	11 5.9 269
Grand Isle County	1 .3 10	1 .3 10	. . . .
Lamoille County	5 3.3 130	. . . .	5 3.3 130
Orange County	8 6.7 285	2 1.7 68	6 5.0 217
Orleans County	6 5.5 242	4 3.5 162	2 2.0 80
Rutland County	25 20.1 875	11 8.5 351	17 11.6 524
Washington County	23 15.9 656	14 11.2 468	9 4.7 188
Windham County	18 10.6 429	8 5.3 212	11 5.3 217
Windsor County	37 27.5 1120	11 6.3 254	28 21.1 866

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

Table 10 -- VT Physician Assistants, 2014  
 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	107 80.0 3315	81 59.7 2430	18 13.1 563	7 3.7 161	4 3.4 161
Addison County	3 2.4 100	3 2.4 100	. . . . .	. . . . .	. . . . .
Bennington County	6 4.7 189	4 2.9 116	1 .8 32	. . . . .	1 1.0 41
Caledonia County	1 1.0 46	1 1.0 46	. . . . .	. . . . .	. . . . .
Chittenden County	31 21.7 915	22 14.8 603	6 5.4 255	2 .7 26	1 .8 31
Essex County	3 2.5 100	3 2.5 100	. . . . .	. . . . .	. . . . .
Franklin County	14 11.0 440	11 8.5 340	2 1.5 60	1 1.0 40	. . . . .
Grand Isle County	1 .3 10	1 .3 10	. . . . .	. . . . .	. . . . .
Lamoille County	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Orange County	2 1.7 68	2 1.7 66	. . . . .	1 .1 2	. . . . .
Orleans County	4 3.5 162	3 2.5 98	. . . . .	. . . . .	1 1.0 64
Rutland County	11 8.5 351	10 7.8 321	. . . . .	1 .8 30	. . . . .
Washington County	14 11.2 468	11 8.6 352	1 .7 28	2 1.3 63	1 .6 25
Windham County	8 5.3 212	7 4.3 172	1 1.0 40	. . . . .	. . . . .
Windsor County	11 6.3 254	4 2.6 106	7 3.7 148	. . . . .	. . . . .

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

Table 11 -- VT Physician Assistants, 2014  
 Numbers of Specialty Care Providers, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by County

Count FTEs Hours	SPECIALTY CARE								
	TOTAL	ANESTH- ESIOLOG.	DERMAT- OLOGY	EMERGENCY MEDICINE	INTERNAL MEDICINE	HOSP- ITALIST	ORTHOP. SURGERY	OTHER SURGERY	OTHER
STATEWIDE TOTAL	173 139.2 5884	10 9.6 403	10 9.6 407	53 34.4 1446	7 5.9 241	7 4.4 191	43 39.0 1649	13 8.9 394	46 27.5 1153
Addison County	6 2.9 132	.	.	3 1.0 42	.	1 .1 7	2 1.7 83	.	.
Bennington County	4 3.9 162	3 2.9 117	.	.	.	.	1 1.0 45	.	.
Caledonia County	4 3.9 187	.	.	.	.	1 .9 37	3 2.5 120	2 .5 30	.
Chittenden County	81 69.7 2913	7 6.7 287	10 9.6 407	13 10.2 416	3 2.8 111	.	18 16.6 675	8 6.4 287	25 17.5 731
Essex County	.	.	.	.	.	.	.	.	.
Franklin County	11 5.9 269	.	.	3 1.1 45	.	.	3 3.0 152	.	5 1.8 72
Grand Isle County	.	.	.	.	.	.	.	.	.
Lamoille County	5 3.3 130	.	.	1 .2 9	.	.	3 2.9 117	.	1 .1 4
Orange County	6 5.0 217	.	.	.	.	2 1.8 85	1 .8 30	1 .9 37	2 1.5 65
Orleans County	2 2.0 80	.	.	.	.	.	2 2.0 80	.	.
Rutland County	17 11.6 524	.	.	4 2.7 144	2 1.2 54	.	4 3.9 159	.	9 3.8 166
Washington County	9 4.7 188	.	.	3 1.6 62	.	.	4 1.9 76	1 <.05 0	3 1.2 50
Windham County	11 5.3 217	.	.	6 2.6 111	1 .9 36	3 1.6 62	.	.	1 .2 8
Windsor County	28 21.1 866	.	.	22 15.0 617	1 1.0 40	.	3 2.7 112	1 1.0 40	4 1.4 57

In this table PAs may be counted more than once (see Note 4).  
 'Other Surgery' in this table includes General Surgery.

Table 12 -- VT Physician Assistants, 2014  
 Primary Care Provider FTE to Population Ratios by County

County	FTEs	Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	80.0	626,562	12.8	7,833
Addison County	2.4	37,009	6.5	15,497
Bennington County	4.7	36,445	12.9	7,754
Caledonia County	1.0	30,981	3.2	30,981
Chittenden County	21.7	160,531	13.5	7,403
Essex County	2.5	6,125	40.8	2,450
Franklin County	11.0	48,642	22.6	4,423
Grand Isle County	.3	6,994	3.6	27,976
Lamoille County	.	25,082	.	
Orange County	1.7	28,859	5.9	16,976
Orleans County	3.5	27,082	12.8	7,831
Rutland County	8.5	60,086	14.2	7,065
Washington County	11.2	58,998	18.9	5,280
Windham County	5.3	43,714	12.1	8,241
Windsor County	6.3	56,014	11.3	8,851

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

Population estimates are from the Census Bureau for July 2014  
 (Note 7).

# Vermont Physician Assistants' Practice Characteristics



Table 13 -- VT Physician Assistants, 2014  
Detailed Specialty List

SPECIALTY GROUP Specialty	Count of PAs Working in Specialty		
	As Main Specialty	As Secondary Specialty	FTEs
TOTAL	264		
--- PRIMARY CARE ---			
FAMILY PRACTICE			
Adolescent Medicine (FP)	1	1	.5
Family Practice	71	4	55.5
General Practice	4	3	3.7
INTERNAL MEDICINE (PRIMARY)			
Geriatric Internal Medicine	2	.	1.5
Internal Medicine	16	.	11.6
OB/GYN			
Gynecology	4	1	2.7
Obstetrics & Gynecology	1	1	1.1
PEDIATRICS			
Adolescent Medicine (Pediatrics)	.	1	.5
Pediatrics (general)	4	.	2.9
--- SPECIALTY CARE ---			
ANESTHESIOLOGY			
Anesthesiology	9	.	8.6
Pain Management	1	.	1.0
DERMATOLOGY			
	10	.	9.6
EMERGENCY MEDICINE			
Emergency Medicine	45	7	34.2
Emergency Medicine: Sports	.	1	.2
HOSPITALIST			
	5	2	4.4
INTERNAL MEDICINE (SPECIALTY)			
Cardiovascular Disease	1	.	1.0
Clinical & Laboratory Immunology	1	.	1.0
Hematology (Internal Medicine)	.	1	.2
Internal Medicine	1	.	.9
Medical Oncology	2	.	1.0
Pulmonary Disease	1	.	.9
Rheumatology	1	.	.9
PSYCHIATRY			
	3	.	2.9
RADIOLOGY			
Diagnostic Radiology	.	1	<.05
Vascular/Interventional Radiology	3	.	2.8
SURGERY: GENERAL			
	2	3	2.1
SURGERY: ORTHOPEDIC			
Adult Reconstructive Orthopedics	3	.	2.4
Hand Surgery (Orthopedic)	4	1	3.9
Orthopedic Surgery	25	2	22.6
Orthopedic Surgery Of The Spine	6	.	5.5
Orthopedic Surgery: Sports	4	.	4.0
Orthopedic Trauma	1	.	.6
SURGERY: OTHER			
Abdominal Surgery	.	1	.5
Cardiovascular Surgery	1	.	1.0
General Vascular Surgery	2	.	1.5
Neurological Surgery	3	.	2.2
Surgical Critical Care	1	.	.6
Thoracic Surgery	1	.	1.0
UROLOGY			
Pediatric Urology	.	1	<.05
Urology	3	1	3.0
OTHER SPECIALTIES			
Family Practice (non-office)	2	2	2.1
Gynecologic Oncology	1	1	1.1
Neonatal-perinatal Medicine	1	.	.5
Otolaryngology	2	.	1.2
Palliative Care	1	.	.7
Pediatrics (non-office)	.	1	.2
Physical Medicine & Rehabilitation	1	.	.2
Plastic Surgery	1	.	1.3
Public Health & General Preventive	.	1	.1
Urgent Care	3	5	2.7
Unlisted Specialty	10	5	8.5

Table 14 -- VT Physician Assistants, 2014  
 Total 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	56.1	22.4	34.1	45.1	33.8	27.7
PRIMARY CARE	28.4	.	.	10.4	31.7	9.5
Family Practice	20.5	.	.	5.6	27.9	5.7
Internal Medicine	4.2	.	.	3.4	3.1	2.4
Ob/Gyn	.9	.	.	1.4	.1	1.4
Pediatrics	2.8	.	.	.	.6	.
SPECIALTY CARE	27.6	22.4	34.1	34.7	2.2	18.2
Anesthesiology	1.0	2.0	.	2.1	.	4.5
Dermatology	5.6	.	.	4.0	.	.
Emergency Medicine	.2	.	33.7	.3	.	.2
Hospitalist	.	3.8	.	.	.7	.
Internal Medicine	.	1.9	.	3.0	.	1.0
Psychiatry	1.0	.9	.	.	.	1.0
Radiology	.	2.0	.	.8	.	<.05
Surgery: General	<.05	.6	.	1.3	.	.2
Surgery: Orthopedic	15.3	2.4	.	18.2	.8	2.4
Surgery: Other	.	3.6	.	2.2	.	1.0
Urology	.6	2.0	.	.5	.	.
Other Specialties	3.9	3.2	.4	2.5	.8	7.9

All worksites of each PA are counted in this table (Note 4).

Table 15 -- VT Physician Assistants, 2014  
Detailed Practice Settings: FTEs by Primary and Specialty Care

Practice Setting	Primary Care		Specialty Care	
	FTEs	Percent	FTEs	Percent
Total	80.0	100%	139.2	100%
Ambulatory surgical center	.	.	1.0	1%
Clinic - federally qualified	28.8	36%	1.3	1%
Clinic - other	2.9	4%	.3	0%
Free Clinic	<.05	0%	.	.
Hospital - in- and out-patient	.	.	.9	1%
Hospital emergency department	.	.	34.1	24%
Hospital inpatient department	.	.	22.4	16%
Hospital outpatient department	10.4	13%	32.8	24%
Mental health facility	.	.	.6	0%
Occupational health setting	.	.	1.8	1%
Office - Multi-specialty	2.9	4%	4.3	3%
Office - Single-specialty	19.5	24%	21.0	15%
Office - solo practice	6.0	8%	2.4	2%
Rehabilitation Facility	.	.	.8	1%
School or college-based clinic	3.3	4%	1.0	1%
Urgent care / Walk in	.	.	4.5	3%
US Military	.5	1%	<.05	0%
Veterans Administration (VA)	2.7	3%	1.8	1%
Other settings	3.0	4%	8.4	6%

For each practice setting, this table counts the number of active physician assistant FTEs, separately for primary and specialty care. The percentages are based on the TOTAL line.

Table 16 -- VT Physician Assistants, 2014  
Practice Setting by Age

Practice Setting	Total	Number in Age Group		
		under 40	40-59	60 and older
TOTAL, all settings	264 (100%)	94	133	37
Solo Practice	10 ( 4%)	4	5	1
Single-Specialty Group	48 ( 18%)	21	18	9
Multi-Specialty Group	8 ( 3%)	2	4	2
Hospital Inpatient Dept	24 ( 9%)	9	15	.
Hospital Emergency Dept	44 ( 17%)	15	20	9
Hospital Outpatient Dept	50 ( 19%)	21	27	2
Hospital Ambulatory Care	1 ( 0%)	1	.	.
Hospital In/Outpatient	1 ( 0%)	.	1	.
Urgent Care / Walk-in	7 ( 3%)	4	3	.
FQHC	37 ( 14%)	13	15	9
Other Health Center	5 ( 2%)	1	4	.
Mental Health Center	1 ( 0%)	1	.	.
Rehabilitation	1 ( 0%)	.	1	.
Occupational Health	2 ( 1%)	.	2	.
School/College	6 ( 2%)	.	6	.
Veterans Administration	5 ( 2%)	.	3	2
Military	1 ( 0%)	.	1	.
Other	13 ( 5%)	2	8	3

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

Table 17 -- VT Physician Assistants, 2014  
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	264	35	36	35	30	42%
PRIMARY CARE	103	33	35	32	31	28%
Family Practice	76	32	33	31	32	25%
Internal Medicine	18	33	39	34	28	33%
Ob/Gyn	5	37	.	40	.	40%
Pediatrics	4	40	.	.	.	50%
SPECIALTY CARE	161	36	37	37	30	51%
Anesthesiology	10	40	.	41	.	80%
Dermatology	10	41	43	39	.	60%
Emergency Medicine	45	32	36	33	23	33%
Hospitalist	5	38	.	43	.	40%
Internal Medicine	7	34	.	33	.	43%
Psychiatry	3	42	.	.	.	67%
Radiology	3	41	.	41	.	67%
Surgery: General	2	.	.	.	.	.
Surgery: Orthopedic	43	40	41	38	.	74%
Surgery: Other	8	39	34	42	.	50%
Urology	3	44	.	.	.	67%
Other Specialties	22	30	30	29	.	23%

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 22).

Table 18 -- VT Physician Assistants, 2014  
Practice Availability by Specialty - Counts

Specialty	PAs	Accept New Patients	Participate in Medicaid	Accept New Medicaid Patients	Participate in Medicare	Accept New Medicare Patients
		(%)	(%)	(%)	(%)	(%)
TOTAL	164	89%	94%	82%	98%	85%
PRIMARY CARE	90	83%	99%	80%	99%	77%
Family Practice	68	83%	100%	82%	100%	78%
Internal Medicine	15	73%	93%	67%	93%	67%
Ob/Gyn	3	100%	100%	100%	100%	100%
Pediatrics	4	100%	100%	100%	n.a.	n.a.
SPECIALTY CARE	74	96%	89%	84%	97%	94%
Anesthesiology	4	100%	100%	100%	100%	100%
Dermatology	10	100%	40%	40%	100%	100%
Hospitalist	1	100%	100%	100%	100%	100%
Internal Medicine	4	75%	100%	75%	100%	75%
Psychiatry	2	0%	0%	0%	0%	0%
Radiology	1	100%	100%	100%	100%	100%
Surgery: General	1	.	.	.	.	.
Surgery: Orthopedic	38	100%	100%	97%	100%	100%
Surgery: Other	3	100%	100%	100%	100%	100%
Urology	1	100%	100%	100%	100%	100%
Other Specialties	9	88%	88%	75%	88%	75%

Only office settings are included (Note 11).

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 10 regarding tabulation of availability.

See next page for a similar table with FTEs rather than counts.

Table 19 -- VT Physician Assistants, 2014  
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	133.7	90%	95%	84%	99%	87%
PRIMARY CARE	70.5	84%	99%	83%	99%	78%
Family Practice	54.0	85%	100%	84%	100%	79%
Internal Medicine	10.7	70%	99%	69%	99%	69%
Ob/Gyn	2.4	100%	89%	89%	89%	89%
Pediatrics	3.4	100%	100%	100%	n.a.	n.a.
SPECIALTY CARE	63.2	97%	90%	85%	99%	96%
Anesthesiology	3.1	100%	100%	100%	100%	100%
Dermatology	9.6	100%	42%	42%	100%	100%
Hospitalist	.7	100%	100%	100%	100%	100%
Internal Medicine	3.0	70%	100%	70%	100%	70%
Psychiatry	1.0	0%	0%	0%	0%	0%
Surgery: General	1.3	100%	100%	100%	100%	100%
Surgery: Orthopedic	34.3	100%	100%	97%	100%	100%
Surgery: Other	2.2	100%	100%	100%	100%	100%
Urology	1.1	100%	100%	100%	100%	100%
Other Specialties	7.1	86%	92%	78%	92%	78%

Only office settings are included (Note 11).

Each site a PA practices in is counted, weighed by FTEs.

Denominators for percentages do not include unknowns.

See Note 10 regarding tabulation of availability.

See previous page for a similar table with counts rather than FTEs.

Table 20 -- VT Physician Assistants, 2014  
Plan to Retire, Leave, or Reduce Hours Within 12 Months

Specialty	Total PAs	Plan to Retire or Leave VT	Plan to Reduce Hours
TOTAL	264	7	14
PRIMARY CARE	103	4	9
Family Practice	76	3	8
Internal Medicine	18	1	1
Ob/Gyn	5	0	0
Pediatrics	4	0	0
SPECIALTY CARE	161	3	5
Anesthesiology	10	0	0
Dermatology	10	0	0
Emergency Medicine	45	2	2
Hospitalist	5	0	1
Internal Medicine	7	0	0
Psychiatry	3	0	0
Radiology	3	0	0
Surgery: General	2	0	0
Surgery: Orthopedic	43	1	0
Surgery: Other	8	0	0
Urology	3	0	0
Other Specialties	22	0	2

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. 4 PAs answered 'yes' to both questions. PAs who indicated they planned to retire or leave were excluded from the number shown planning to reduce.

**Vermont Physician Assistants**  
**by Health Related Geographical Regions**



Table 21 -- VT Physician Assistants, 2014  
 Numbers of PAs, Full Time Equivalent (FTEs), and  
 Total Weekly Patient Care Hours, by Hospital Service Area

	Count FTEs Hours	TOTAL	PRIMARY CARE TOTAL	SPECIALTY CARE TOTAL
STATEWIDE TOTAL	264 219.2 9199		107 80.0 3315	173 139.2 5884
Barre	24 16.9 703		14 11.2 468	10 5.7 235
Bennington	12 9.0 368		6 4.7 189	6 4.3 179
Brattleboro	13 8.3 336		5 3.4 137	9 4.9 200
Burlington	108 92.0 3854		32 22.3 940	81 69.7 2913
Middlebury	8 5.3 232		3 2.4 100	6 2.9 132
Morrisville	5 3.3 130		. . . .	5 3.3 130
Newport	8 7.2 312		6 5.2 232	2 2.0 80
Randolph	7 5.7 239		2 1.5 59	6 4.2 180
Rutland	25 20.1 875		11 8.5 351	17 11.6 524
Springfield	29 18.2 740		7 4.4 174	22 13.8 566
St. Albans	22 16.5 694		14 10.6 425	11 5.9 269
St. Johnsbury	6 5.7 262		2 1.8 76	4 3.9 187
White River Jct	20 11.2 454		7 4.1 164	14 7.1 290

In this table PAs may be counted more than once (Note 4).  
 Hospital Service Areas defined using 1997-2001 inpatient data  
 for immediate care conditions discharges - see Appendices A and E.

Table 22 -- VT Physician Assistants, 2014  
 Numbers of Primary Care Providers, Full Time Equivalent (FTEs),  
 and Total Weekly Patient Care Hours, by Hospital Service Area

	Count FTEs Hours	PRIMARY CARE TOTAL	FAMILY	INTERNAL	OB/GYN	PEDIATRIC
STATEWIDE TOTAL	107 80.0 3315	81 59.7 2430	18 13.1 563	7 3.7 161	4 3.4 161	
Barre	14 11.2 468	11 8.6 352	1 .7 28	2 1.3 63	1 .6 25	
Bennington	6 4.7 189	4 2.9 116	1 .8 32	.	1 1.0 41	
Brattleboro	5 3.4 137	4 2.4 97	1 1.0 40	.	.	
Burlington	32 22.3 940	22 14.8 603	7 6.1 280	2 .7 26	1 .8 31	
Middlebury	3 2.4 100	3 2.4 100	.	.	.	
Newport	6 5.2 232	5 4.2 168	.	.	1 1.0 64	
Randolph	2 1.5 59	1 .9 34	1 .6 25	.	.	
Rutland	11 8.5 351	10 7.8 321	.	1 .8 30	.	
Springfield	7 4.4 174	4 2.9 116	3 1.5 59	.	.	
St. Albans	14 10.6 425	12 8.7 350	1 .9 35	1 1.0 40	.	
St. Johnsbury	2 1.8 76	2 1.8 76	.	.	.	
White River Jct	7 4.1 164	4 2.4 98	3 1.6 64	1 .1 2	.	

In this table PAs may be counted more than once (Note 4).  
 Hospital Service Areas defined using 1997-2001 inpatient data  
 for immediate care conditions discharges - see Appendices A and E.

Table 23 -- VT Physician Assistants, 2014  
 Numbers of Specialty Care Providers, Full Time Equivalents (FTEs),  
 and Total Weekly Patient Care Hours, by Hospital Service Area

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTH- ESIOL.	DERMAT- OLOGY	EMERGENCY MEDICINE	INTERNAL MEDICINE	HOSP- ITALIST	ORTHOP. SURGERY	OTHER SURGERY	OTHER OTHER
STATEWIDE TOTAL	173 139.2 5884	10 9.6 403	10 9.6 407	53 34.4 1446	7 5.9 241	7 4.4 191	43 39.0 1649	13 8.9 394	46 27.5 1153
Barre	10 5.7 235	. . . .	. . . .	3 1.6 62	. . . .	. . . .	4 1.9 76	1 <.05 0	4 2.2 97
Bennington	6 4.3 179	3 2.9 117	. . . .	2 .4 17	. . . .	. . . .	1 1.0 45	. . . .	. . . .
Brattleboro	9 4.9 200	. . . .	. . . .	4 2.2 93	1 .9 36	3 1.6 62	. . . .	. . . .	1 .2 8
Burlington	81 69.7 2913	7 6.7 287	10 9.6 407	13 10.2 416	3 2.8 111	. . . .	18 16.6 675	8 6.4 287	25 17.5 731
Middlebury	6 2.9 132	. . . .	. . . .	3 1.0 42	. . . .	1 .1 7	2 1.7 83	. . . .	. . . .
Morrisville	5 3.3 130	. . . .	. . . .	1 .2 9	. . . .	. . . .	3 2.9 117	. . . .	1 .1 4
Newport	2 2.0 80	. . . .	. . . .	. . . .	. . . .	. . . .	2 2.0 80	. . . .	. . . .
Randolph	6 4.2 180	. . . .	. . . .	. . . .	. . . .	2 1.8 85	1 .8 30	1 .9 37	2 .7 28
Rutland	17 11.6 524	. . . .	. . . .	4 2.7 144	2 1.2 54	. . . .	4 3.9 159	. . . .	9 3.8 166
Springfield	22 13.8 566	. . . .	. . . .	19 10.6 438	1 1.0 40	. . . .	2 2.0 80	. . . .	1 .2 8
St. Albans	11 5.9 269	. . . .	. . . .	3 1.1 45	. . . .	. . . .	3 3.0 152	. . . .	5 1.8 72
St. Johnsbury	4 3.9 187	. . . .	. . . .	. . . .	. . . .	1 .9 37	3 2.5 120	2 .5 30	. . . .
White River Jct	14 7.1 290	. . . .	. . . .	11 4.4 179	. . . .	. . . .	1 .7 32	1 1.0 40	2 .9 39

Hospital Service Areas defined using 1997-2001 inpatient data for immediate care conditions discharges - see Appendices A and E. In this table PAs may be counted more than once (see Note 4). 'Other Surgery' in this table includes General Surgery.

Table 24 -- VT Physician Assistants, 2014  
 Primary Care Provider FTE to Population Ratios  
 by Hospital Service Area

HSA	FTEs	Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	80.0	626,562	12.8	7,833
Barre	11.2	66,845	16.7	5,983
Bennington	4.7	39,458	11.9	8,395
Brattleboro	3.4	32,173	10.6	9,416
Burlington	22.3	180,039	12.4	8,070
Middlebury	2.4	28,500	8.4	11,934
Morrisville	.	26,437	.	.
Newport	5.2	27,922	18.7	5,361
Randolph	1.5	14,489	10.2	9,823
Rutland	8.5	60,825	14.0	7,152
Springfield	4.4	28,232	15.4	6,478
St. Albans	10.6	45,285	23.5	4,263
St. Johnsbury	1.8	28,267	6.2	16,153
White River Jct	4.1	48,090	8.5	11,780

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

Population estimates are from the Census Bureau for July 2014  
 (Note 7).

For a map of the service areas, see Appendix E.

Table 25 -- VT Physician Assistants, 2014  
 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		264 219.2 9199	107 80.0 3315	173 139.2 5884
Barre		24 16.9 703	14 11.2 468	10 5.7 235
Bennington		10 8.6 351	6 4.7 189	4 3.9 162
Brattleboro		15 8.7 354	5 3.4 137	11 5.3 217
Burlington		107 91.4 3829	31 21.7 915	81 69.7 2913
Middlebury		8 5.3 232	3 2.4 100	6 2.9 132
Morrisville		5 3.3 130	. . . .	5 3.3 130
Newport		8 7.2 312	6 5.2 232	2 2.0 80
Rutland		25 20.1 875	11 8.5 351	17 11.6 524
Springfield		33 24.1 981	8 5.1 204	25 19.0 777
St. Albans		22 17.1 719	14 11.2 450	11 5.9 269
St. Johnsbury		7 6.5 296	3 2.6 110	4 3.9 187
Wht Rvr Jct		13 10.1 418	7 4.0 159	8 6.1 259

In this table PAs may be counted more than once (Note 4).  
 For a map of the districts, see Appendix F.

Table 26 -- VT Physician Assistants, 2014  
 Numbers of Primary Care Providers, 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	107 80.0 3315	81 59.7 2430	18 13.1 563	7 3.7 161	4 3.4 161
Barre	14 11.2 468	11 8.6 352	1 .7 28	2 1.3 63	1 .6 25
Bennington	6 4.7 189	4 2.9 116	1 .8 32	. . . . .	1 1.0 41
Brattleboro	5 3.4 137	4 2.4 97	1 1.0 40	. . . . .	. . . . .
Burlington	31 21.7 915	22 14.8 603	6 5.4 255	2 .7 26	1 .8 31
Middlebury	3 2.4 100	3 2.4 100	. . . . .	. . . . .	. . . . .
Newport	6 5.2 232	5 4.2 168	. . . . .	. . . . .	1 1.0 64
Rutland	11 8.5 351	10 7.8 321	. . . . .	1 .8 30	. . . . .
Springfield	8 5.1 204	5 3.6 146	3 1.5 59	. . . . .	. . . . .
St. Albans	14 11.2 450	12 8.7 350	2 1.5 60	1 1.0 40	. . . . .
St. Johnsbury	3 2.6 110	3 2.6 108	. . . . .	1 .1 2	. . . . .
Wht Rvr Jct	7 4.0 159	3 1.7 70	4 2.2 89	. . . . .	. . . . .

In this table PAs may be counted more than once (Note 4).  
 For a map of the districts, see Appendix F.

Table 27 -- VT Physician Assistants, 2014  
 Numbers of Specialty Care Providers, Full Time Equivalent (FTEs),  
 and Total Weekly Patient Care Hours, by Local Health District

Count FTEs Hours	SPECIALTY CARE TOTAL	ANESTH- ESIOLOG.	DERMAT- OLOGY	EMERGENCY MEDICINE	INTERNAL MEDICINE	HOSP- ITALIST	ORTHOP. SURGERY	OTHER SURGERY	OTHER OTHER
STATEWIDE TOTAL	173 139.2 5884	10 9.6 403	10 9.6 407	53 34.4 1446	7 5.9 241	7 4.4 191	43 39.0 1649	13 8.9 394	46 27.5 1153
Barre	10 5.7 235	. . . .	. . . .	3 1.6 62	. . . .	. . . .	4 1.9 76	1 .0 0	4 2.2 97
Bennington	4 3.9 162	3 2.9 117	. . . .	. . . .	. . . .	. . . .	1 1.0 45	. . . .	. . . .
Brattleboro	11 5.3 217	. . . .	. . . .	6 2.6 111	1 .9 36	3 1.6 62	. . . .	. . . .	1 .2 8
Burlington	81 69.7 2913	7 6.7 287	10 9.6 407	13 10.2 416	3 2.8 111	. . . .	18 16.6 675	8 6.4 287	25 17.5 731
Middlebury	6 2.9 132	. . . .	. . . .	3 1.0 42	. . . .	1 .1 7	2 1.7 83	. . . .	. . . .
Morrisville	5 3.3 130	. . . .	. . . .	1 .2 9	. . . .	. . . .	3 2.9 117	. . . .	1 .1 4
Newport	2 2.0 80	. . . .	. . . .	. . . .	. . . .	. . . .	2 2.0 80	. . . .	. . . .
Rutland	17 11.6 524	. . . .	. . . .	4 2.7 144	2 1.2 54	. . . .	4 3.9 159	. . . .	9 3.8 166
Springfield	25 19.0 777	. . . .	. . . .	22 15.0 617	1 1.0 40	. . . .	3 2.7 112	. . . .	1 .2 8
St. Albans	11 5.9 269	. . . .	. . . .	3 1.1 45	. . . .	. . . .	3 3.0 152	. . . .	5 1.8 72
St. Johnsbury	4 3.9 187	. . . .	. . . .	. . . .	. . . .	1 .9 37	3 2.5 120	2 .5 30	. . . .
Wht Rvr Jct	8 6.1 259	. . . .	. . . .	. . . .	. . . .	2 1.8 85	1 .8 30	2 1.9 77	3 1.6 67

In this table PAs may be counted more than once (see Note 4).  
 'Other Surgery' in this table includes General Surgery.  
 For a map of the districts, see Appendix F.

Table 28 -- VT Physician Assistants, 2014  
 Primary Care Provider FTE to Population Ratios  
 by Local Health District

District	FTEs	Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	80.0	626,562	12.8	7,833
Barre	11.2	66,108	16.9	5,917
Bennington	4.7	36,445	12.9	7,754
Brattleboro	3.4	35,732	9.6	10,458
Burlington	21.7	160,501	13.5	7,402
Middlebury	2.4	36,876	6.5	15,441
Morrisville	.0	31,080	.0	.
Newport	5.2	27,922	18.7	5,361
Rutland	8.5	60,249	14.1	7,085
Springfield	5.1	33,523	15.2	6,562
St. Albans	11.2	55,636	20.2	4,947
St. Johnsbury	2.6	34,536	7.5	13,283
Wht Rvr Jct	4.0	47,954	8.3	12,117

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

Population estimates are from the Census Bureau for July 2014  
 (Note 7).

For a map of the districts, see Appendix F.

**Vermont Physician Assistants**  
**Comparisons Between 2014, 2012 and 2004**



Table 29 -- VT PAs, 2012 and 2014  
 Changes in Number of PAs, Patient Care Hours  
 and Specialties, between 2012 and 2014

	2012	2014	Change	
TOTAL	240	264	+24	+10%
Main specialty:				
Primary Care Total	98	103	+5	+5%
Family Practice	77	76	-1	-1%
Internal Medicine	12	18	+6	+50%
Ob/Gyn	6	5	-1	-17%
Pediatrics	3	4	+1	+33%
Specialty Care Total	142	161	+19	+13%
Anesthesiology	12	10	-2	-17%
Dermatology	8	10	+2	+25%
Emergency Medicine	43	45	+2	+5%
Hospitalist	0	5	+5	
Internal Medicine	10	7	-3	-30%
Psychiatry	3	3	0	0%
Radiology	3	3	0	0%
Surgery: General	5	2	-3	-60%
Surgery: Orthopedic	33	43	+10	+30%
Surgery: Other	8	8	0	0%
Urology	4	3	-1	-25%
Other Specialties	13	22	+9	+69%
Age groups:				
younger than 35	51	61	+10	+20%
35 - 44	69	75	+6	+9%
45 - 54	64	63	-1	-2%
55 - 64	50	52	+2	+4%
65 and older	6	13	+7	+117%
Gender:				
Male	103	102	-1	-1%
Female	137	162	+25	+18%
Patient care hours: (radiologists excluded)				
40 or more hours/week	127	109	-18	-14%
30 to under 40 hours/week	55	94	+39	+71%
less than 30 hours/week	55	58	+3	+5%

Table 30 -- VT PAs, 2012 and 2014  
Full Time Equivalents (FTEs) by County

PRIMARY CARE:	2012	2014	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	76.6	80.0	+3.4
Addison County	1.7	2.4	+ .7
Bennington County	3.6	4.7	+1.1
Caledonia County	.8	1.0	+ .2
Chittenden County	21.4	21.7	+ .3
Essex County	2.9	2.5	- .4
Franklin County	11.1	11.0	- .1
Grand Isle County	1.0	.3	- .7
Lamoille County	.	.	.
Orange County	1.8	1.7	- .1
Orleans County	3.0	3.5	+ .5
Rutland County	6.7	8.5	+1.8
Washington County	10.6	11.2	+ .6
Windham County	4.2	5.3	+1.1
Windsor County	8.0	6.3	-1.7
SPECIALTY CARE:	2012	2014	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	123.3	139.2	+15.9
Addison County	2.0	2.9	+ .9
Bennington County	6.4	3.9	-2.5
Caledonia County	3.0	3.9	+ .9
Chittenden County	60.4	69.7	+9.3
Essex County	.	.	.
Franklin County	4.9	5.9	+1.0
Grand Isle County	.	.	.
Lamoille County	3.7	3.3	- .4
Orange County	3.9	5.0	+1.1
Orleans County	.3	2.0	+1.7
Rutland County	9.5	11.6	+2.1
Washington County	5.3	4.7	- .6
Windham County	5.8	5.3	- .5
Windsor County	18.0	21.1	+3.1

Table 31 -- VT PAs, 2004 and 2014  
 Changes in Number of PAs, Patient Care Hours  
 and Specialties, between 2004 and 2014

	2004	2014	Change	
TOTAL	155	264	+109	+70%
Main specialty:				
Primary Care Total	79	103	+24	+30%
Family Practice	55	76	+21	+38%
Internal Medicine	10	18	+8	+80%
Ob/Gyn	10	5	-5	-50%
Pediatrics	4	4	0	0%
Specialty Care Total	76	161	+85	+112%
Anesthesiology	0	10	+10	
Dermatology	6	10	+4	+67%
Emergency Medicine	37	45	+8	+22%
Hospitalist	0	5	+5	
Internal Medicine	5	7	+2	+40%
Psychiatry	0	3	+3	
Radiology	0	3	+3	
Surgery: General	3	2	-1	-33%
Surgery: Orthopedic	14	43	+29	+207%
Surgery: Other	1	8	+7	+700%
Urology	4	3	-1	-25%
Other Specialties	6	22	+16	+267%
Age groups:				
younger than 35	38	61	+23	+61%
35 - 44	40	75	+35	+88%
45 - 54	53	63	+10	+19%
55 - 64	24	52	+28	+117%
65 and older	0	13	+13	
Gender:				
Male	68	102	+34	+50%
Female	87	162	+75	+86%
Patient care hours: (radiologists excluded)				
40 or more hours/week	87	109	+22	+25%
30 to under 40 hours/week	33	94	+61	+185%
less than 30 hours/week	35	58	+23	+66%

Table 32 -- VT PAs, 2004 and 2014  
Full Time Equivalents (FTEs) by County

PRIMARY CARE:	2004	2014	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	62.3	80.0	+17.7
Addison County	1.8	2.4	+ .6
Bennington County	4.8	4.7	- .1
Caledonia County	.7	1.0	+ .3
Chittenden County	19.2	21.7	+2.5
Essex County	1.0	2.5	+1.5
Franklin County	5.8	11.0	+5.2
Grand Isle County	1.0	.3	- .7
Lamoille County	.2	.	- .2
Orange County	1.0	1.7	+ .7
Orleans County	1.9	3.5	+1.6
Rutland County	8.4	8.5	+ .1
Washington County	7.0	11.2	+4.2
Windham County	3.0	5.3	+2.3
Windsor County	6.6	6.3	- .3
SPECIALTY CARE:	2004	2014	Change
	<hr/>	<hr/>	<hr/>
STATEWIDE TOTAL	69.2	139.2	+70.0
Addison County	1.8	2.9	+1.1
Bennington County	4.4	3.9	- .5
Caledonia County	2.0	3.9	+1.9
Chittenden County	27.3	69.7	+42.4
Essex County	.	.	.
Franklin County	2.8	5.9	+3.1
Grand Isle County	.	.	.
Lamoille County	.7	3.3	+2.6
Orange County	.	5.0	+5.0
Orleans County	.	2.0	+2.0
Rutland County	6.7	11.6	+4.9
Washington County	6.0	4.7	-1.3
Windham County	3.3	5.3	+2.0
Windsor County	14.2	21.1	+6.9

# Appendices



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

### **Definition of Active Physician Assistant**

A physician assistant (PA) who was relicensed for the period 2014-2015 in Vermont, and who provided patient care hours in Vermont (not as locum tenens) as reported in the survey, is considered an active physician assistant. This one includes anesthesiologist assistants (AA) and radiologist assistants (RA).

### **Physician assistants not represented in these tables**

Only *active* PAs are reported. Those 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 practice, and geriatric medicine.
- 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**

- Anesthesiology
- Dermatology
- Emergency Medicine
- Hospitalist – now considered a specialty, unlike in previous reports
- Internal Medicine includes several internal medicine subspecialties
- Psychiatry
- Radiology
- General Surgery
- Orthopedic Surgery
- 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.
- Urology
- Other Specialties includes all specialties not listed above.

### **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.

### **Hospital Service Areas**

Hospital Service Areas (HSAs) in this report are as redefined in 2004, based on inpatient discharges where the diagnosis indicates the need for immediate care, for the years 1997-2001. Unlike versions prior to 2004, all Vermont towns have been assigned to a Vermont HSA. The name of each HSA is based on the most populous town in that service area. For a map of these HSAs 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.

## Appendix B. Notes for specific tables

1. **Calculation of Age**  
Ages are computed as 2014 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.

(note 3 skipped intentionally)

4. **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 22 regarding the calculation of weekly hours and FTEs.

(notes 5 and 6 skipped intentionally)

7. **Population Estimates**  
Population estimates are for July 1, 2014, as released by the Census Bureau.
8. **“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.

(note 9 skipped intentionally)

10. **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, 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.

Emergency Medicine is 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.

11. **Practice settings included**

Only office-based settings were counted for this purpose. This includes ambulatory care and office-based specialties.

12. **Geographical Regions - States were grouped into the following regions:**

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

Mid Atlantic: 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

(notes 13 through 21 skipped intentionally)

22. **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 PA Census 2014

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### Identification

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

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

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

4) Vermont Physician (or Anesthesiologist) Assistant License Number\* \_\_\_\_\_

### Demographics

5) Date of birth\* \_\_\_\_\_

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

Certificate / Diploma

Associate degree

Bachelor's degree

Master's degree

Military training certificate

Other (specify): \_\_\_\_\_

10) Please enter the two letter code for the state where you completed your physician assistant education:  
(Use 2-letter abbreviations for states; CC for Canada, XX for other foreign countries) \_\_\_\_\_

**11) Name of school or program where you completed your PA education?** \_\_\_\_\_

**12) In what year did you complete your physician assistant education?** \_\_\_\_\_

**13) Are you certified by the National Commission on Certification of Physician Assistants (NCCPA)?**

Yes       No

**14) Have you completed physician assistant post-graduate training?**

Yes       No

**15) Have you completed specialty certification?**

Yes       No

**16) In what year did you start practicing (anywhere) as a physician assistant? (if never, leave blank)**

\_\_\_\_\_

**17) In what year did you start practicing as a physician assistant in Vermont? (if never, leave blank)**

\_\_\_\_\_

## Currently active

**18) Please check all of the boxes that describe your practice as a PA (or AA):\***

Active in clinical practice in Vermont as a PA

Active in clinical practice outside Vermont as a PA

Working in a position that is not clinical practice, but requires a PA license

Actively working in a field other than physician assistant

Not currently working

Retired

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

**(if not active in Vermont stop here)**

**20) Do you plan to retire, or leave your principal Vermont clinical practice, 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

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

**23) Vermont town name (not a mailing address):\***

\_\_\_\_\_

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

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

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

- Office-based private solo physician practice
- Office-based private single-specialty physician group
- Office-based private multi-specialty physician group
- Hospital inpatient department
- Hospital outpatient department
- Hospital emergency department
- Urgent Care / Walk in
- Federally qualified health center (FQHC/RHC)
- Public or community health clinic (not federally qualified)
- Ambulatory surgical center
- Rehabilitation facility
- Behavioral / mental health facility
- School or college-based clinic
- Occupational health setting
- Extended care / nursing home
- Home Health Agency

- Hospice
- Free Clinic
- US Military
- Veterans Administration (VA)
- Telemedicine
- Other - please specify: \_\_\_\_\_\*

**The following questions are about direct patient care:**

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

**28) Main specialty you actually practice at this site: (with or without a certification) \*** \_\_\_\_\_

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

**30) Secondary specialty you actually practice at this site, if any:** \_\_\_\_\_

**31) Hours per working week here in direct patient care in secondary specialty, if any:** \_\_\_\_\_

**32) Tertiary specialty you actually practice at this site, if any:** \_\_\_\_\_

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

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

	yes	no
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	( )	( )
I work as a locum tenens here	( )	( )

**The following questions are about activities *other than* direct patient care:**

**35) Hours per working week in administration at this site:**

---

**36) Hours per working week in teaching at this site:**

---

**37) Hours per working week in quality improvement or patient safety activities at this site:**

---

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

---

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

---

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

---

**(Similar questions about second and third Vermont practice sites)**

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

---



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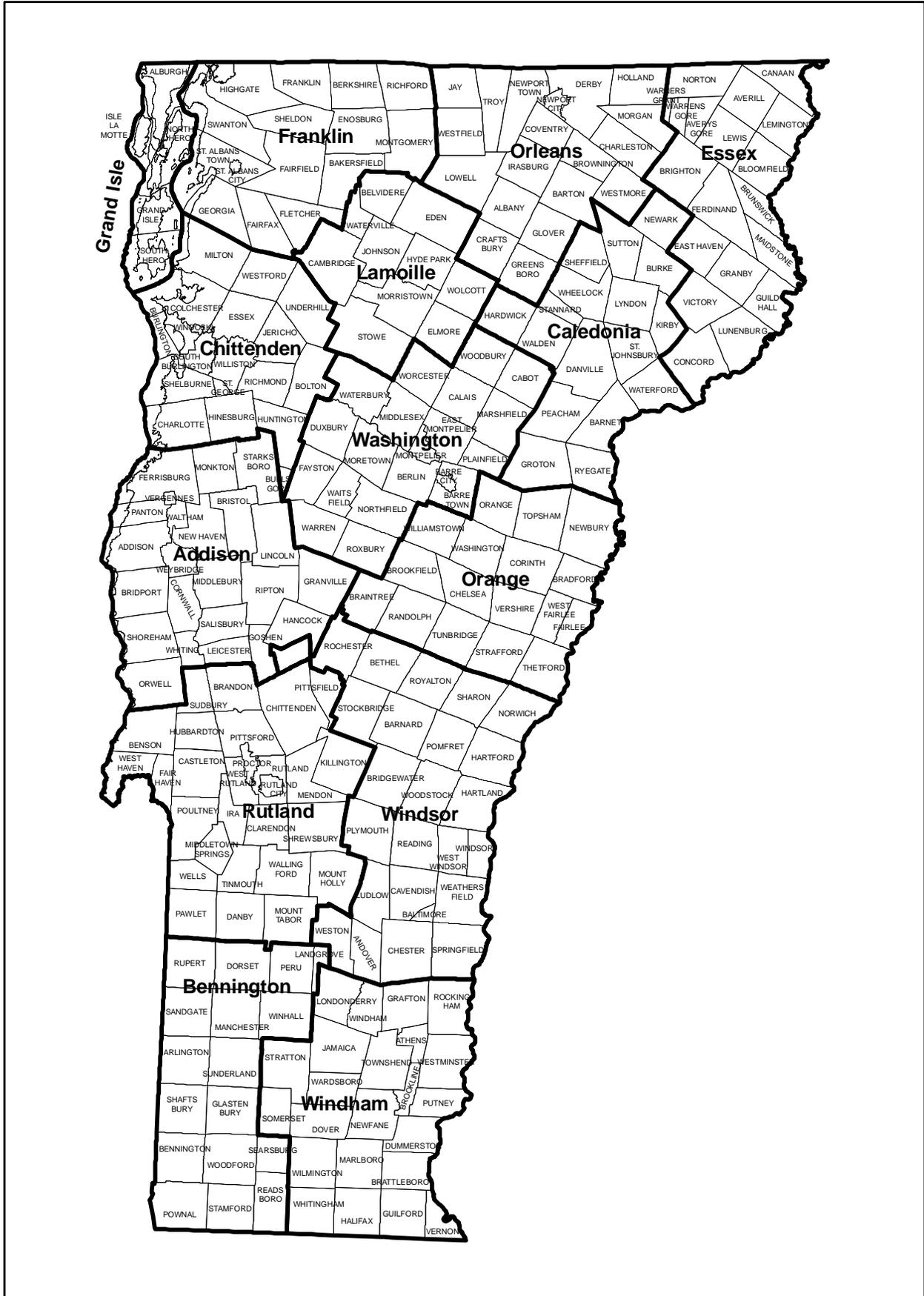
**77) Thank you. If there is anything else you want to tell us about your practice, or this census, please enter it here:**

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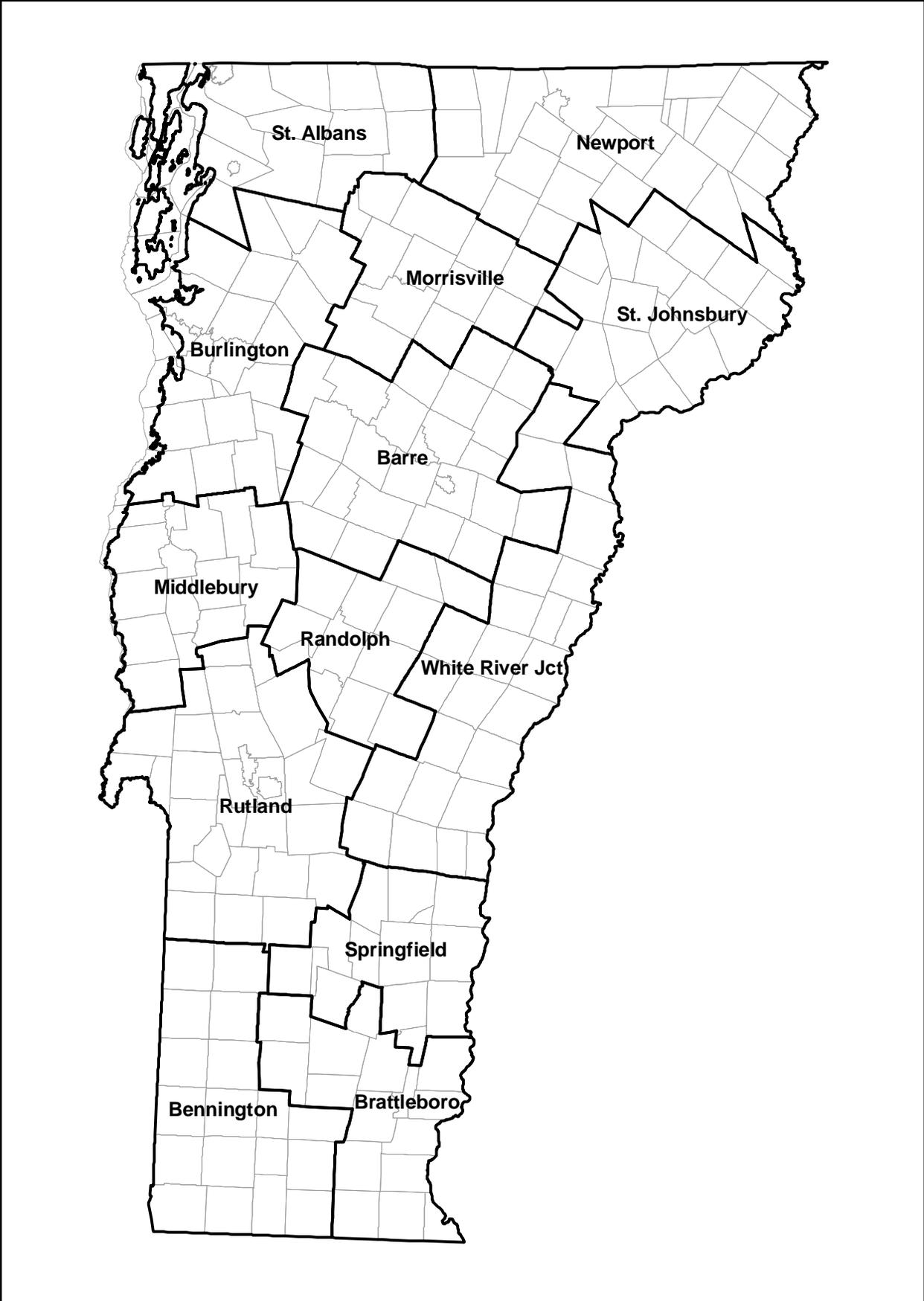


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# Appendix D: Vermont Counties and Towns



Appendix E: Hospital Service Areas



# Appendix F: Local Health Districts

