# Vermont Department of Health 1999 Dentist Survey Statistical Report

# 1999 Dentist Survey Statistical Report

State of Vermont James Douglas, Governor

Agency of Human Services Charles Smith, Secretary

Department of Health Paul Jarris, MD, MBA, Commissioner

#### Acknowledgments

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

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

We also wish to express our thanks to the Secretary of State Office who sent out the survey with the licensing material and then sent us the returned surveys.

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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. This effort depends largely on our capacity to collect timely and useful data. In this report we present detailed profiles of dentists practicing in Vermont; 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.

This is the first such survey of dentists in Vermont. Information on dentists who practice in Vermont will be updated every two years at the time of relicensing. Similar information is being collected from physicians, nurses, and other health professionals. Look for this and other, similar, reports at the Department of Health web site, http://www.healthyvermonters.info – look under "publications".

<u>Data Collection</u>: This report includes dentists who renewed their license as of the end of September, 1999. In cooperation with the Secretary of State Office and the Vermont Dental Society, the Department of Health included a survey with the relicensing renewal form in the fall of 1999. A copy of this survey is included in Appendix C.

The surveys that were returned were compared against a list of all dentists who were relicensed. Follow-up mailings and phone calls were then made to those dentists residing in Vermont, or a neighboring state, who did not return a survey, to determine if they were seeing patients in Vermont, and if so, to complete the survey.

Included in this report are dentists who provide patient care in Vermont. A number of dentists maintain Vermont licenses even though they do not practice in Vermont. These dentists are excluded from this report.

<u>Limitations</u>: 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 are 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 mailed 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.

<u>Table Notes:</u> Detailed notes and definitions are included in the Appendices. References to "Note(s)" in tables always refer to the Notes in Appendix B.

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 347 dentists providing patient care in Vermont. This represents 290.2 full-time equivalents, of which 228.4 are in primary care.
- ♦ 272 dentists work mainly in primary care including:
  - 262 General
    - 10 Pediatric
- ♦ 75 dentists provide mainly specialty care including:
  - 21 Oral Surgery
  - 10 Endodontics
  - 28 Orthodontics
  - 12 Periodontics
  - 4 Prosthodontics
- Patient care hours per week (does *not* include administration, teaching, and research):
  - 29% 40 or more hours per week
  - 51% 30 to 39 hours per week
  - 20% less than 30 hours per week
- ♦ Eighty-eight of the dentists are 55 or older, and 22 of these are 65 and older, thus retirement could be a major consideration in the future.
- ♦ Three hundred and three, or 87%, of the 347 dentists are men.

# Vermont Dentists Demographic Characteristics

Table 1 -- VT Dentists, 1999 Summary of Active Providers

TOTAL	347	(100%)
Age groups:		
less than 35 35 - 44 45 - 54 55 - 64 65 and up		. ,
Gender:		
Male Female	303 44	,
Patient care hours:		
40 or more hours/week 30 to 39 hours/week less than 30 hours/week		( 29%) ( 51%) ( 20%)
Number of practice sites:		
One Two Three or more	301 30 16	(9%)
Tried to add an associate:		
Yes, with success Yes, pending Yes, without success Did not try	51 16 26 253	( 4%) ( 7%)
Type of Practice:		
Primary Care Total	272	( 78%)
General Pediatric	262 10	( 76%) ( 3%)
Specialty Care Total	75	( 22%)
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	21 10 28 12 4	( 6%) ( 3%) ( 8%) ( 3%) ( 1%)

Table 2 -- VT Dentists, 1999 Age by Type of Practice and by Gender

	Total	Number in Age Group					Age 60+	
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	347	38	94	127	49	17	22	11%
MALES FEMALES	303 44	25 13	75 19	116 11	48 1	17 ·	22	13% .%
PRIMARY CARE	272	25	77	100	39	13	18	11%
General Pediatric	262 10	24 1	77 0	94 6	37 2	12 1	18 0	11% 10%
SPECIALTY CARE	75	13	17	27	10	4	4	11%
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	21 10 28 12 4	4 3 5 1 0	4 1 6 4 2	8 4 11 4 0	4 2 1 2 1	0 0 3 1 0	1 0 2 0 1	5% 0% 18% 8% 25%
	Total	Percent in Age Group						Age 60+
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	100%	11%	27%	37%	14%	5%	6%	11%
MALES FEMALES	100% 100%	8% 30%	25% 43%	38% 25%	16% 2%	6% .%	7% .%	13%
PRIMARY CARE SPECIALTY CARE	100% 100%	9% 17%	28% 23%	37% 36%	14% 13%	5% 5%	7% 5%	11% 11%

Table 3 -- VT Dentists, 1999 Age by Type of Practice for Each Gender

Type of Practice	Total	Number in Age Group					Age 60+	
		<35	35-44	45-54	55-59	60-64	65+	(%)
TOTAL	347	38	94	127	49	17	22	11%
MALES	303	25	75	116	48	17	22	13%
PRIMARY CARE	236	17	59	91	38	13	18	13%
General Pediatric	226 10	16 1	59 0	85 6	36 2	12 1	18 0	13% 10%
SPECIALTY CARE	67	8	16	25	10	4	4	12%
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	20 6 25 12 4	3 1 3 1 0	4 0 6 4 2	8 3 10 4 0	4 2 1 2 1	0 0 3 1 0	1 0 2 0 1	5% 0% 20% 8% 25%
FEMALES	44	13	19	11	1	0	0	0%
PRIMARY CARE	36	8	18	9	1	0	0	0%
General	36	8	18	9	1	0	0	0%
SPECIALTY CARE	8	5	1	2	0	0	0	0%
Oral Surgery Endodontics Orthodontics	1 4 3	1 2 2	0 1 0	0 1 1	0 0 0	0 0 0	0 0 0	0% 0% 0%

Table 4 -- VT Dentists, 1999 Age by County

County	Total	Number in Age Group					Age 60+	
		<35	35-44	45-54	55-59	60-64	65+	(%)
STATEWIDE TOTAL Total Primary Care Specialists	347 272 75	38 25 13	94 77 17	127 100 27	49 39 10	17 13 4	22 18 4	11% 11% 11%
Addison County Primary Care Specialists	10 1	1	0	3	4 0	1	1	20% 0%
Bennington County Primary Care Specialists	20 7	1	3 2	12 2	1 2	0 1	3	15% 14%
Caledonia County Primary Care Specialists	14 2	1	3	5 2	3	0	2	14% 0%
Chittenden County Primary Care Specialists	75 37	9	28 12	28 6	5 6	4 1	1 3	7% 11%
Essex County Primary Care Specialists	1	0	1	0	0	0	0	0%
Franklin County Primary Care	13	1	7	4	1	0	0	0%
Grand Isle County Primary Care Specialists	1	0	1	0	0	0	0	0%
Lamoille County Primary Care	15	4	4	4	1	1	1	13%
Orange County Primary Care	9	1	2	3	1	1	1	22%
Orleans County Primary Care	6	0	1	2	3	0	0	0%
Rutland County Primary Care Specialists	33 7	1	8 2	12 4	5 1	3	4 0	21% 0%
Washington County Primary Care Specialists	27 6	3	4 1	13 4	5 0	1	1 0	7% 0%
Windham County Primary Care Specialists	24 6	0	7 0	7	4	2 1	4 1	25% 33%
Windsor County Primary Care Specialists	24 9	3 2	8	7 5	6 1	0 1	0	0% 11%

Each provider is counted once in this table, in the county where they practice the most hours.

Table 5 -- VT Dentists, 1999 Years in Clinical Practice

In Clinical Practice	Total	In Vermont
less than a year 1 or 2 years 3 or 4 years 5 to 9 years 10 to 14 years 15 to 19 years 20 years or more	3 ( 1%) 7 ( 3%) 4 ( 2%) 22 ( 9%) 31 ( 13%) 42 ( 17%) 137 ( 56%)	8 ( 3%) 16 ( 7%) 18 ( 7%) 29 ( 12%) 32 ( 13%) 31 ( 13%) 112 ( 46%)
unknown	101	101
Total	347	347
Modian woons:	22	18
Median years:	22	ΤΟ

### **Vermont Dentists**

Distribution of Full Time Equivalents (FTEs)

Table 6 -- VT Dentists, 1999
Numbers of Providers, Full Time Equivalents (FTEs),
and Total Weekly Patient Care Hours, by County

	Count FTEs Hours	TOTAL	GENERAL	PEDIATRIC	OTHER
STATEWIDE TOT	AL	347 290.2 12018	262 221.7 9074	10 6.7 277	75 61.8 2667
Addison Count	Y	14 10.2 423	10 8.6 358	· ·	4 1.6 66
Bennington Co	unty	28 21.7 893	20 16.1 660	· ·	8 5.6 233
Caledonia Cou	nty	22 15.3 626	17 12.6 518	2 .7 28	3 2.0 81
Chittenden Co	unty	113 91.1 3791	71 61.0 2507	4 3.2 132	38 26.9 1153
Essex County		1 1.0 40	1 1.0 40	· ·	
Franklin Coun	ty	19 12.0 492	13 10.3 418	· ·	6 1.7 74
Grand Isle Co	unty	1 .9 35	1 .9 35	:	
Lamoille Coun	ty	22 12.1 507	16 11.4 472	.0 1	5 .7 34
Orange County		9 7.1 288	9 7.1 288	:	
Orleans Count	У	9 5.4 230	6 4.5 194	1 .6 23	2 .3 12
Rutland Count	У	40 32.4 1319	32 25.4 1029	1 1.0 44	7 6.0 246
Washington Co	unty	47 32.7 1390	32 25.6 1054	1 .1 5	14 7.0 331
Windham Count	У	31 24.0 999	24 19.6 799	· ·	7 4.4 200
Windsor Count	У	34 24.4 985	23 17.5 703	2 1.1 44	9 5.8 237

In this table providers may be counted in more than one county (see note 4).

Table 7 -- VT Dentists, 1999

Numbers of Specialty Care Providers, Full Time Equivalents (FTEs), and Total Weekly Patient Care Hours, by County

Count FTEs Hours	SPECIALTY CARE TOTAL	ORAL SURGERY	ENDO- DONTICS	ORTHO- DONTICS	PERIO- DONTICS	PROSTHO- DONTICS
STATEWIDE TOTAL	75 61.8 2667	21 18.9 866	10 9.2 377	28 21.6 925	12 9.0 363	4 3.1 136
Addison County	4 1.6 66	1 1.0 42		2 .4 17	1 .2 8	
Bennington County	8 5.6 233	2 1.7 69	1 .4 17	3 1.6 65	1 .8 32	1 1.0 50
Caledonia County	3 2.0 81	1 .9 38		2 1.1 43	· ·	· ·
Chittenden County	38 26.9 1153	10 7.2 325	6 5.3 214	12 7.6 337	8 5.4 219	2 1.4 57
Essex County	· ·	· ·		: :	· ·	· ·
Franklin County	6 1.7 74	2 .8 40		3 .7 29	1 .1 5	
Grand Isle County	· ·	· ·		:	· ·	· ·
Lamoille County	5 . 7 34	· ·		4 .6 31	1 .1 3	
Orange County	· ·	· ·		: :		· ·
Orleans County	2 .3 12	· ·	· ·	2 .3 12		
Rutland County	7 6.0 246	2 1.9 82	1 .6 25	3 2.5 101	1 .9 38	
Washington County	14 7.0 331	3 3.0 157	1 1.0 41	8 2.6 117	2 .4 17	
Windham County	7 4.4 200	3 2.3 113	· ·	3 1.5 63	1 .6 25	· ·
Windsor County	9 5.8 237	· ·	2 1.9 81	5 2.8 110	1 .4 17	1 .7 30

In this table providers may be counted in more than one county (see note 4).

Table 8 -- VT Dentists, 1999
Primary Care Dentistry FTE to Population Ratios by County

ounty FTEs		Population	FTEs per 100,000	Population per FTE
STATEWIDE TOTAL	228.41	604210	37.80	2645
Addison County Bennington County Caledonia County Chittenden County Essex County Franklin County Grand Isle County Lamoille County Orange County Orleans County	8.63	35677	24.18	4136
	16.11	36849	43.72	2287
	13.29	29509	45.04	2220
	64.21	145154	44.24	2260
	.99	6445	15.35	6513
	10.34	44908	23.02	4344
	.88	6762	12.96	7714
	11.43	22913	49.88	2005
	7.14	28017	25.50	3922
	5.09	26059	19.54	5116
Rutland County Washington County Windham County Windsor County	26.43	63210	41.81	2392
	25.70	57704	44.53	2246
	19.62	43940	44.64	2240
	18.56	57063	32.52	3075

Only providers of General and Pediatric dentistry are included. In this table providers are counted anywhere they work (Note 4).

Population data is for 1999, from post-2000-census re-estimates (see Note 7).

One FTE is defined as 40 (or more) hours per week (see note 22). The FTEs are rounded to two digits for display only. The ratios were calculated using the unrounded values.

Table 9 -- VT Dentists, 1999 Total FTEs by Practice Setting

Type of Practice

FTEs in Setting

	Solo Practice	Practice of 2 dentists	Practice of 3+ dentists	Extended Care	Volunteer	Other
General	128.9	61.2	30.0	.1		1.5
Pediatric	2.8	.8	3.1	•	•	
Oral Surgery	5.8	3.9	9.0		. 2	
Endodontics	4.8	1.9	2.4	•		
Orthodontics	10.6	3.2	7.8		•	
Periodontics	3.8	1.6	3.6		•	
Prosthodontics	2.7	. 4				

All worksites of each provider are counted in this table (see note 4).

## Vermont Dentists'

Training

Table 10 -- VT Dentists, 1999 Dental School Location by Type of Practice

Type of Practice	Total	Number	Gradua <sup>.</sup>	ted fro	om Denta	l Scho	ool in 1	Region
		New England	Mid Atlant	South	Central	West	Canada	Unknown
TOTAL	347	51	82	37	54	3	7	113
PRIMARY CARE	272	30	68	34	46	2	5	87
General Pediatric	262 10	28 2	66 2	32 2	44 2	2	5 0	85 2
SPECIALTY CARE	75	21	14	3	8	1	2	26
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	21 10 28 12 4	6 2 6 5 2	5 3 4 1 1	1 1 1 0	4 0 2 2 0	0 0 1 0	0 0 1 1	5 4 13 3 1

See note 12 for definition of regions.

Table 11 -- VT Dentists, 1999
UVM dental GPR Program Participation by Type of Practice

Type of Practice	Total	Ever Enro	lled in UV	M GPR Program
		Yes	No	Unknown
TOTAL	347	20	213	114
PRIMARY CARE	272	17	169	86
General Pediatric	262 10	16 1	161 8	85 1
SPECIALTY CARE	75	3	44	28
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	21 10 28 12 4	1 1 0 1 0	14 5 14 8 3	6 4 14 3 1

# Vermont Dentists Practice Characteristics

Table 12 -- VT Dentists, 1999 Practice Setting by Type of Practice

Type of Practice	Total		Number in	Setting	ting ————————		
		Solo Practice		Practice of 3+ dentists	Other		
TOTAL	347 (100%)	190	91	64	2		
General	262 ( 76%)	152	75	33	2		
Pediatric	10 ( 3%)	5	1	4			
Oral Surgery	21 ( 6%)	6	5	10			
Endodontics	10 ( 3%)	5	2	3			
Orthodontics	28 ( 8%)	14	5	9			
Periodontics	12 ( 3%)	5	2	5			
Prosthodontics	4 ( 1%)	3	1				

Each provider is counted once in this table, in their type of practice, and in their main practice setting.

Table 13 -- VT Dentists, 1999
Practice Setting by Age

Care Setting	То	tal	Number in Age Group			oup		
			<35	35-44	45-54	55-59	60-64	65+
Total, all settings	347	(100%)	38	94	127	49	17	22
Solo Practice Group of 2 dentists Group of 3+ dentists Other	190 91 64	( 55%) ( 26%) ( 18%) ( 1%)	11 12 15	46 26 21	84 26 16	28 15 6	9 5 3	12 7 3

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

See Note 1 for description of age calculation.

Table 14 -- VT Dentists, 1999 Practice Setting by Gender

Care Setting	Total Males Fe		Females
Total, all settings	347	303 (100%)	44 (100%)
Solo Practice Group of 2 dentists Group of 3+ dentists Other	190 91 64 2	171 ( 56%) 75 ( 25%) 55 ( 18%) 2 ( 1%)	19 ( 43%) 16 ( 36%) 9 ( 20%) 0 ( 0%)

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

Percentages are based on 'Total' row.

Table 15 -- VT Dentists, 1999 Practice Settings by County

County	Total	Number in Setting							
		Solo Practice	Practice of 2 dentists	Practice of 3+ dentists	Other				
STATEWIDE TOTAL Total Primary Care Specialists	347 272 75	190 157 33	91 76 15	64 37 27	2 2				
Addison County Primary Care Specialists	10	8 1	2	:					
Bennington County Primary Care Specialists	20 7	14 4	6 3	:					
Caledonia County Primary Care Specialists	14 2	8 2	2	4					
Chittenden County Primary Care Specialists	75 37	36 9	27 5	11 23	1				
Essex County Primary Care Specialists	1 .		1						
Franklin County Primary Care Specialists	13	9	4						
Grand Isle County Primary Care Specialists	1	1 .							
Lamoille County Primary Care Specialists	15 ·	4	3 .	8 .					
Orange County Primary Care Specialists	9	6	3 .						
Orleans County Primary Care Specialists	6	4	2						
Rutland County Primary Care Specialists	33 7	18 7	9	5	1				
Washington County Primary Care Specialists	27 6	18 4	4 2	5					
Windham County Primary Care Specialists	24 6	14 2	6	4 4					
Windsor County Primary Care Specialists	24 9	17 4	7 5		:				

Each provider is counted once in this table, in their main practice setting, and, independently, in their main county of practice (see note 9).

Table 16 -- VT Dentists, 1999

Average Patient Care Hours per Week,

by Type of Practice and Age

Type of Practice	Count	Average Patient Care Hours per Week				% Working Full Time	
		All Ages	Age < 45	Age 45-54	Age 55+	(%)	
ALL PROVIDERS	347	35	37	35	31	29%	
PRIMARY CARE	272	34	36	35	31	27%	
General Pediatric	262 10	35 28	36 45	36 28	31 21	27% 20%	
SPECIALTY CARE	75	36	38	36	30	36%	
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	21 10 28 12 4	41 38 33 30 34	37 34 39 39 45	46 42 29 30	39 37 30 16 23	57% 60% 18% 17% 50%	

Full Time' is 40 (or more) hours of direct patient care per week in Vermont (see note 22).

Table 17 -- VT Dentists, 1999

Average Patient Care Hours per Week,

by Provider Gender, Type of practice and Age

Type of Practice	Total	Aver	% Working Full Time			
		All Ages	Age < 45	Age 45-54	Age 55+	(왕)
MALES:						
ALL PRACTICE TYPES	303	35	38	36	31	30%
PRIMARY CARE	236	35	37	35	31	28%
General Pediatric	226 10	35 28	37 45	36 28	31 21	28% 20%
SPECIALTY CARE	67	36	41	37	30	37%
Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	20 6 25 12 4	43 39 34 30 34	41 36 41 39 45	46 42 30 30	39 37 30 16 23	60% 67% 20% 17% 50%
FEMALES:						
ALL PRACTICE TYPES	44	32	33	32	15	20%
PRIMARY CARE	36	33	34	33	15	19%
General	36	33	34	33	15	19%
SPECIALTY CARE	8	28	28	31		25%
Oral Surgery Endodontics Orthodontics	1 4 3	8 35 26	8 33 29	42 20		0% 50% 0%

Full Time' is 40 (or more) hours of direct patient care per week in Vermont (see note 22).

Table 18 -- VT Dentists, 1999 Average Patient Care Hours per Week, by Provider Age, by County

County	Total		age Pa Nours p	% Working Full Time		
		All Ages	Age < 45	Age 45-54	Age 55+	(%)
STATEWIDE TOTAL Primary Care Specialists	272 75	34 36	36 38	35 36	31 30	27% 36%
Addison County Primary Care Specialists	10 1	36 42	36 ·	33 42	37	40% 100%
Bennington County Primary Care Specialists	20 7	33 31	41 43	34 20	24 30	30% 14%
Caledonia County Primary Care Specialists	14 2	37 37	39 •	34 37	37	64% 0%
Chittenden County Primary Care Specialists	75 37	35 37	37 38	35 41	29 32	28% 43%
Essex County Primary Care Specialists	1	40	40			0%
Franklin County Primary Care Specialists	13	32	31	36 ·	23	15%
Grand Isle County Primary Care Specialists	1	35	35			0%
Lamoille County Primary Care Specialists	15 ·	37	40	33	33	33%
Orange County Primary Care Specialists	9	32	33	38	26	22%
Orleans County Primary Care Specialists	6	35	45	38	30	50%
Rutland County Primary Care Specialists	33 7	33 38	32 42	34 36	33 36	12% 29%
Washington County Primary Care Specialists	27 6	37 47	37 50	38 45	33	37% 83%
Windham County Primary Care Specialists	24 6	34 32	36 17	39 40	28 27	17% 17%
Windsor County Primary Care Specialists	24 9	31 26	34 31	30 26	28 23	13% 11%

Each provider is counted once, in main county of practice. 'Full Time' is 40 (or more) hours of direct patient care per week in Vermont (see note 22). See Note 1 for description of age calculation.

Table 19 -- VT Dentists, 1999
In Practice with Dental Hygienists, by Specialty

Type of practice	Total Dentists		s who work al Hygienists
TOTAL	347	264	(76%)
PRIMARY CARE General Pediatric	272 262 10	237 229 8	(87%) (87%) (80%)
SPECIALTY CARE Oral Surgery Endodontics Orthodontics Periodontics Prosthodontics	75 21 10 28 12 4	27 1 0 11 12 3	(36%) (5%) (0%) (39%) (100%) (75%)

This table counts dentists, not sites nor hygienists.

Multiple hygienists in practice with the same dentist are counted as one, and multiple dentists may work with the same hygienist(s). Dentists may work with hygienists in one site but not in another. One dentist did not report whether (s)he works with hygienists, but (s)he was included in the denominator for the percentage.

Table 20 -- VT Dentists, 1999
In Practice with Dental Hygienists, by Setting

Practice Setting	Total Dentists	Dentists with Dental	
TOTAL	347	264	(76%)
Solo Practice Practice of 2 Dentists Practice of 3+ Dentist Other	190 91 s 64 2	137 75 52 0	(72%) (82%) (81%) (0%)

This table counts dentists, not sites nor hygienists.

Multiple hygienists in practice with the same dentist are counted as one, and multiple dentists may work with the same hygienist(s). Dentists may work with hygienists in one site but not in another. One dentist did not report whether (s)he works with hygienists, but (s)he was included in the denominator for the percentage.

Table 21 -- VT Dentists, 1999 Practice Availability by Type of Practice

Type of Practice	Offices	Plan to Continue Practice	Accept New Patients	Accept New Medicaid Patients	Average weeks wait new patient	Average weeks wait cur patient
		(%)	/ % \	( % )		
		(%)	(%)	(%)		
TOTAL	415	97%	88%	52%	4	3
PRIMARY CARE	296	97%	85%	43%	4	3
General	280	98%	84%	40%	4	3
Pediatric	16	88%	100%	94%	6	4
SPECIALTY CARE	119	97%	97%	75%	3	3
Oral Surgery	24	96%	96%	83%	2	1
Endodontics	11	91%	100%	22%	11	11
Orthodontics	63	98%	97%	85%	3	2
Periodontics	17	100%	94%	65%	3	2
Prosthodontics	4	100%	100%	25%	4	4

See Note 10 for information about practice availability. Solo and Group settings only (see note 11). Each site a provider practices in is counted separately. 'Plan to Continue Practice' is for 12 months following the survey. Denominators for percentages do not include unknowns.

Table 22 -- VT Dentists, 1999 Practice Availability by County

County	Offices	Plan to Continue Practice	Accept New Patients	Accept New Medicaid Patients	Avg weeks wait - new patient	Avg weeks wait - cur patient
		(%)	(%)	( % )		
STATEWIDE TOTAL Primary Care Specialists	296 119	97% 97%	85% 97%	43% 75%	4 3	3 3
Addison County Primary Care Specialists	10 4	90% 100%	60% 100%	10% 100%	2 2	2 1
Bennington County Primary Care Specialists	20 8	100% 88%	75% 88%	25% 63%	7 4	4 3
Caledonia County Primary Care Specialists	18	94% 100%	83% 100%	61% 100%	3 2	3 2
Chittenden County Primary Care Specialists	88 52	95% 96%	95% 96%	44% 80%	4 4	3 3
Essex County Primary Care	1	100%	100%	100%	1	6
Franklin County Primary Care Specialists	13 6	100% 100%	92% 100%	69% 100%	4 3	3 2
Grand Isle County Primary Care	1	100%	100%	100%	2	1
Lamoille County Primary Care Specialists	16 5	94% 100%	94% 100%	69% 75%	2 4	2 2
Orange County Primary Care	9	100%	67%	22%	4	3
Orleans County Primary Care Specialists	6 2	100% 100%	83% 100%	83% 100%	2 2	2 1
Rutland County Primary Care Specialists	32 7	100% 100%	75% 86%	34% 57%	6 1	2 2
Washington County Primary Care Specialists	33 14	94% 100%	79% 100%	36% 86%	3 3	3 2
Windham County Primary Care Specialists	24 7	100% 100%	79% 100%	30% 43%	3 2	3 1
Windsor County Primary Care Specialists	25 11	100% 100%	88% 100%	44% 45%	3 3	2 2

See Note 10 for information about practice availability.

Solo and Group settings only (see note 11).

Each site a provider practices in is counted separately.

'Plan to Continue Practice' is for 12 months following the survey.

### Table 23 -- VT Dentists, 1999 Tried to Add an Associate, by Type of Practice

### Tried to Add an Associate

Type of Practice	Total	With Success	Pending	Without Success	Did Not Try
TOTAL	347	51 (15%)	16 ( 5%)	26 ( 7%)	253
General	262	29 (11%)	11 (4%)	25 (10%)	196
Pediatric	10	3 (30%)	. ( .%)	. ( .%)	7
Oral Surgery	21	8 (38%)	4 (19%)	1 (5%)	8
Endodontics	10	3 (30%)	1 (10%)	. ( .%)	6
Orthodontics	28	5 (18%)	. ( .%)	. ( .%)	23
Periodontics	12	3 (25%)	. ( .%)	. ( .%)	9
Prosthodontics	4	. ( .%)	. ( .웅)	. ( .%)	4

Percentages are based on the row total. Data is missing for one dentist, but (s)he is counted in the "Total" column.

Table 24 -- VT Dentists, 1999 Tried to Add an Associate, by Age

Tried to Add an Associate

Age Group	Total	With Success	Pending	Without Success	Did Not Try
Total	347	51 (15%)	16 ( 5%)	26 ( 7%)	253
Less then 35	38	10 (26%)	2 ( 5%)	1 ( 3%) 7 ( 7%) 8 ( 6%) 6 (12%)	25
35-44	94	14 (15%)	6 ( 6%)		67
45-54	127	16 (13%)	5 ( 4%)		97
55-59	49	4 (8%)	2 ( 4%)		37
60-64	17	2 (12%)	1 ( 6%)	2 (12%)	12
65 or more	22	5 (23%)	. ( .%)	2 ( 9%)	15

Percentages are based on the row total. Data is missing for one dentist, but (s)he is counted in the "Total" column.

See Note 1 for description of age calculation.

## Table 25 -- VT Dentists, 1999 Tried to Add an Associate, by County

### Tried to Add an Associate

County	Total	With Success	Pending	Without Success	Did Not Try
STATEWIDE TOTAL Primary Care Specialists	272 75	32 (12%) 19 (25%)	11 ( 4%) 5 ( 7%)	25 ( 9%) 1 ( 1%)	203 50
Addison County Primary Care Specialists	10 1	2 (20%) . ( .%)	. ( .%) . ( .%)	1 (10%)	7 1
Bennington County Primary Care Specialists	20 7	1 ( 5%) . ( .%)	. ( .%) . ( .%)	1 ( 5%)	17 7
Caledonia County Primary Care Specialists	14 2	3 (21%) . ( .%)	· ( .%)	1 ( 7%) 1 (50%)	10 1
Chittenden County Primary Care Specialists	75 37	13 (17%) 11 (30%)	4 ( 5%) 4 (11%)	6 ( 8%) . ( .%)	52 22
Essex County Primary Care Specialists	1	1 (**%)	. ( .%)	. ( .%)	
Franklin County Primary Care Specialists	13 0	1 ( 8%)	1 ( 8%)	2 (15%)	9
Grand Isle County Primary Care Specialists	1	. ( .%)	. ( .%)	. ( .%)	1
Lamoille County Primary Care Specialists	15 0	5 (33%)	. ( .%)	2 (13%)	8
Orange County Primary Care Specialists	9 0	. ( .%)	. ( .%)	2 (22%)	7
Orleans County Primary Care Specialists	6 0	1 (17%)	. ( .%)	. ( .%)	5
Rutland County Primary Care Specialists	33 7	. ( .%) . ( .%)	3 ( 9%) 1 (14%)	4 (12%) . ( .%)	26 6
Washington County Primary Care Specialists	27 6	2 ( 7%) 2 (33%)	1 ( 4%)	1 ( 4%)	23 4
Windham County Primary Care Specialists	24 6	1 ( 4%) 3 (50%)	1 ( 4%)	2 ( 8%)	20 3
Windsor County Primary Care Specialists	24 9	2 ( 8%) 3 (33%)	1 ( 4%)	3 (13%) . ( .%)	18 6

Percentages are based on the row total. Data is missing for one dentist, but (s)he is counted in the "Total" column.

Table 26 -- VT Dentists, 1999 Plan to Retire, by Age

Plan to Retire	То	tal		Numbe	er in A	Age Gro	oup	
			<35	35-44	45-54	55-59	60-64	65+
Total	347	(100%)	38	94	127	49	17	22
In less than one year In the next 1-5 years In the next 6-10 years	8 24 42	( 2%) ( 7%) ( 12%)	2 .	1	1 5 24	7 9	3 3 6	2 9 2
More than 10 years Not sure No answer	132 35 106	( 38%) ( 10%) ( 31%)	14 4 18	55 10 28	51 11 35	12 5 16	1 4	4 5

See Note 1 for description of age calculation.

Table 27 -- VT Dentists, 1999 Plan to Retire, by Practice Setting

Plan to Retire	Total		Number in Setting				
		Solo Practice	Practice of 2 dentists	Practice of 3+ dentists	Other		
Total	347	190	91	64	2		
In less than one year In the next 1-5 years In the next 6-10 years More than 10 years Not sure No answer	8 24 42 132 35 106	4 14 28 77 14 53	3 7 7 29 14 31	1 3 6 26 6 22	i i		

# Appendices

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

### **Definition of Active Dentist**

A dentist who was licensed or relicensed for the period 2000-2001 in Vermont, and who provided patient care hours in Vermont as reported in the survey, is considered an active dentist. Only *active* dentists are reported. Those who hold a Vermont license but are not actively in practice in Vermont are excluded from all tables.

### **Type of Practice**

Dentists reported their type of practice using a list of predefined options that were provided on the survey form in question 2 (see Appendix C). Only general and pediatric dentistry were considered "primary care" in this report.

**General Practitioner** – includes general practice and family practice;

Oral and maxiollofacial surgery;

**Endodontics**;

**Orthodontics**;

**Pediatric dentistry** – includes only those dentists certified as pediatric dentists;

**Periodontics**;

Prosthodontics; and

**Public Health** 

### **Practice Setting**

The practice setting is the context in which patient care is given. Practice settings were reported (labeled "practice type") on pages 2 and 3 of the survey instrument (see Appendix C) and were categorized in the following way:

**Solo practice:** 

Practice of 2 dentists;

Practice of 3 or more dentists;

**Hospital dentistry (inpatient)**;

**Nursing home**;

Volunteer clinic; and

**Other** – all other settings.

### **Main setting**

Main setting is the practice setting in which the dentist provides the greatest number of patient care hours.

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

Full time is defined as 40 patient care hours per week or more for 48 weeks. A dentist reporting more than 40 hours per week is defined as *one* FTE regardless of the number of hours. See the following examples:

### **Examples of FTE Calculation**

		<u>Hours</u>	<u>FTE</u>
Example 1:	Site 1	10	0.25
	Site 2	10	0.25
	Total	20	0.50
Example 2:	Site 1	20	0.50
1	Site 2	20	0.50
	Total	40	1.00
Example 3:	Site 1	35	0.50
	Site 2	35	0.50
	Total	70	1.00

In the first example, the dentist works half-time and has hours split equally between site 1 and 2. The pattern is the same in Example 2, except the hours total 40 for 1.0 FTE. In the third example the dentist spends 70 hours per week in patient care. This is calculated as 1.0 FTE total, and 0.5 FTE for each of the 35 weekly hours spent in site 1 and in site 2.

### **Main County**

Main county is the county in which the dentist practices the greatest number of patient care hours.

### **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 dentists are exact integers, however, and should add up to displayed totals.

### Tables displaying each dentist 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 dentist is represented in only one cell in the table. Those with more than one practice site or setting, are counted only in the row and column representing their practice type, main setting, or main practice location.

Other tables may have some dentists counted in more than one row or column, if they work in more than one site, 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 (referred to by number)

### 1. Calculation of Age

For the survey of dentists, ages are calculated as of 9/30/99, based on the date of birth. For example, a person born in September 1959 is considered 40 years old, while a person born in October 1959 is considered 39 years old.

(Notes 2 and 3 skipped intentionally)

## 4. Notes regarding tables listing provider Full Time Equivalents (FTE) and Hours by County (or HCA, or other areas):

These tables count each provider who provides care in that town or county. The same provider may be counted in more than one town and more than one county.

Because of this inclusive approach taken in tallying provider 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 county totals which sum the town-level provider counts and the state totals which sum the county-level counts. Unlike the totals for the counts of providers, however, the numbers listed in the "Total" rows and "Total" columns for the "FTE" and "Hours" statistics *do* equal the sums of the individual items (except for rounding error).

(Notes 5 and 6 skipped intentionally)

### 7. **Population Estimates**

Population estimates are for 1999. These estimates include corrections based on the 2000 census, and differ from some previously published population figures for 1999.

(Note 8 skipped intentionally)

## 9. "Main" Setting, and "Main" County determined independently

Each provider's main practice setting and main county of practice are determined independently, and are used to determine the row and column in the table in which the provider will be counted.

### 10. Notes regarding Availability of Care

The survey form allowed the provider to answer the "availability" questions (e.g., whether they accept new patients) separately for each site. Therefore, in the tables about availability of care, the unit of counting is neither the provider nor the site, but rather the provider - site association.

Dentists were not asked about Medicare patients, since Medicare does not cover dental care.

### 11. Office settings only

Only office settings are counted. Included are private practices (both solo and group). Volunteer work is not counted here.

### 12. Geographical Regions

States were grouped into the following regions:

### **Northeast:**

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

Mid Atlantic: NY, NJ, PA

### South:

South Atlantic: DE, MD, DC, VA, WV, NC, SC, GA, FL

East South Central: KY, TN, AL, MS West South Central: AR, OK, LA, TX

### **North Central:**

East North Central: OH, IN, IL, MI, WI

West North Central: MN, IA, MO, ND, SD, NE, KS

### West:

Mountain: MT, WY, CO, NM, ID, UT, AZ, NV

Pacific: WA, OR, CA, AK, HI

(Notes 13 through 21 skipped intentionally)

### 22. Patient Care Hours

"Full Time" is defined here as 40 (or more) hours of direct patient care per week in Vermont, for 48 weeks per year. Average weekly hours (based on 48 weeks per year) were computed for providers who worked more or less than 48 weeks per year.



### VERMONT DEPARTMENT OF HEALTH SURVEY OF DENTISTS



This survey is designed to assess the distribution of dentists throughout the state and assist in recruitment and retention efforts. Please answer all questions completely. If you have any questions, please contact the Department of Health at (802)-863-7300. Thank you for your cooperation.

1	

(Please print legibly using a dark blue or black pen and	uppercase letters; fill in small check boxes entirely)			
Vermont License Number Gender	Month Day Year			
0 1 6 - 0 0 0 Male F	Date of 1 9 1 9			
First Name	Middle Name			
Last Name	Daytime Phone Number			
(Please fill in check boxes completely using a dark blue	or black pen)			
Please fill in all of the boxes below that describe your	Chook how overmale:			
☐ Provide patient care in Vermont	□ Scans well			
<ul> <li>□ Provide patient care outside Vermont</li> <li>□ Retired from active practice</li> </ul>	□ Does not scan well			
☐ Other: IF YOU DO NOT PROVIDE PATIENT CARE IN VERMONT	, PLEASE STOP HERE AND RETURN SURVEY			
Which of the following best describes your primary practice? (Please fill in only one box)	3. Were you ever enrolled in the Fletcher Allen Health Care/UVM dental GPR program?			
<ul><li>☐ General practitioner</li><li>☐ Oral and maxillofacial surgery</li></ul>	□ Yes □ No			
<ul><li>☐ Endodontics</li><li>☐ Orthodontics</li><li>☐ Pediatric dentistry</li></ul>	4. Please enter the two letter state code for the dental school where you earned your DDS/DMD degree:			
☐ Periodontics ☐ Prosthodontics ☐ Public health	State			
5. In what year did you first start working as a dentist?				
6. In what year did you first start working as a dentist IN VERMONT?  1 9				
7. Have you tried adding an associate to your practice during the last two years?	Do you plan to retire or leave your practice of dentistry in Vermont?			
☐ Yes - with success	☐ In less than one year			
☐ Yes - pending	☐ In the next 1-5 years			
☐ Yes - without success ☐ No	<ul><li>□ In the next 6-10 years</li><li>□ More than 10 years from now</li><li>□ Don't know/not sure</li></ul>			





### VERMONT DEPARTMENT OF HEALTH SURVEY OF DENTISTS



This survey is designed to assess the distribution of dentists throughout the state and assist in recruitment and retention efforts. Please answer all questions completely. If you have any questions, please contact the Department of Health at (802)-863-7300. Thank you for your cooperation.

Vermont License Number		
0 1 6 0 0 0 (Please re-enter your license number for scanning purposes)		
Please enter site information FOR EACH LOCATION where you treat patients IN VERMONT. If you provide care at two locations in the same town, please enter a separate site for each. Hours spent TREATING PATIENTS should include diagnosis, treatment planning, direct care and clinical report.		
SITE ONE - (Enter the town for each Vermont location where you work, not a mailing address)		
1. Please enter the total number of weeks you work TREATING PATIENTS in a year.		
Please enter the average HOURS PER WEEK you spend TREATING PATIENTS     during the weeks you worked.  Hours Per Week		
3. On average, how many WEEKS will it take a NEW PATIENT  New Patient:  Weeks		
and a PATIENT OF RECORD to get an appointment to see you at this site? (If not accepting new patients, enter 99; enter 01 for patient waits of one week or less.)  Patient of Record:  Weeks		
4. Please fill in only ONE practice type:  5. Please fill in 'Yes' or 'No' for all the questions below:		
☐ Solo practice ☐ Yes ☐ No I plan to continue at this site for the next 12 months ☐ Practice of 2 dentists		
☐ Practice of 3 or more dentists ☐ Yes ☐ No ☐ I am working with dental hygienists at this site ☐ Hospital dentistry (inpatient)		
☐ Nursing home ☐ Yes ☐ No I will accept new patients at this site ☐ Volunteer clinic ☐ Yes ☐ No I will accept new Medicaid patients at this site		
Other:		
SITE TWO - (Enter the town for each Vermont location where you work, not a mailing address)		
Weeks Per Year		
1. Please enter the total number of weeks you work TREATING PATIENTS in a year.		
Please enter the average HOURS PER WEEK you spend TREATING PATIENTS     during the weeks you worked.  Hours Per Week		
3. On average, how many WEEKS will it take a NEW PATIENT  and a PATIENT OF RECORD to get an appointment to see  you at this site? (If not accepting new patients, enter 99;		
enter 01 for patient waits of one week or less.)		
4. Please fill in only ONE practice type:  5. Please fill in 'Yes' or 'No' for all the questions below:		
☐ Solo practice ☐ Yes ☐ No I plan to continue at this site for the next 12 months ☐ Practice of 2 dentists ☐ Yes ☐ No I am working with dental hygienists at this site		
☐ Hospital dentistry (inpatient)		
□ Nursing home □ Volunteer clinic □ Other:		





### VERMONT DEPARTMENT OF HEALTH SURVEY OF DENTISTS



This survey is designed to assess the distribution of dentists throughout the state and assist in recruitment and retention efforts. Please answer all questions completely. If you have any questions, please contact the Department of Health at (802)-863-7300. Thank you for your cooperation.

3

Vermont License Number		
Please enter site information FOR EACH LOCATION where you treat patients IN VERMONT. If you		
provide care at two locations in the same town, please enter a separate site for each. Hours spent TREATING PATIENTS should include diagnosis, treatment planning, direct care and clinical report.		
SITE THREE - (Enter the town for each Vermont location where you work, not a mailing address)		
Weeks Per Year		
<ol> <li>Please enter the total number of weeks you work TREATING PATIENTS in a year.</li> <li>Please enter the average HOURS PER WEEK you spend TREATING PATIENTS</li> <li>Hours Per Week</li> </ol>		
during the weeks you worked.  3. On average, how many WEEKS will it take a NEW PATIENT  New Patient:  Weeks		
and a PATIENT OF RECORD to get an appointment to see		
enter 01 for patient waits of one week or less.)		
<ul><li>4. Please fill in only ONE practice type:</li><li>□ Solo practice</li><li>5. Please fill in 'Yes' or 'No' for all the questions below:</li></ul>		
☐ Practice of 2 dentists ☐ Yes ☐ No I plan to continue at this site for the next 12 months		
☐ Hospital dentistry (inpatient)		
☐ Nursing home ☐ Yes ☐ No I will accept new patients at this site ☐ Volunteer clinic ☐ Yes ☐ No I will accept new patients at this site		
☐ Other: ☐ Yes ☐ No I will accept new Medicaid patients at this site		
SITE FOUR - (Enter the town for each Vermont location where you work, not a mailing address)		
1. Please enter the total number of weeks you work TREATING PATIENTS in a year.		
2. Please enter the average HOURS PER WEEK you spend TREATING PATIENTS during the weeks you worked.  Hours Per Week		
3. On average, how many WEEKS will it take a NEW PATIENT  and a PATIENT OF RECORD to get an appointment to see		
you at this site? (If not accepting new patients, enter 99; enter 01 for patient waits of one week or less.)  Patient of Record:		
4. Please fill in only ONE practice type:  5. Please fill in 'Yes' or 'No' for all the questions below:		
☐ Solo practice ☐ Yes ☐ No I plan to continue at this site for the next 12 months ☐ Practice of 2 dentists		
☐ Practice of 3 or more dentists ☐ Yes ☐ No I am working with dental hygienists at this site		
☐ Hospital dentistry (inpatient) ☐ Yes ☐ No I will accept new patients at this site		
☐ Volunteer clinic ☐ Yes ☐ No I will accept new Medicaid patients at this site ☐ Other:		

