



STATE HEALTH IMPROVEMENT PLAN

HEALTHY PENNSYLVANIANS 2010 AND BEYOND

Special Report On The Characteristics of the Dentist and Dental Hygienist Population in Pennsylvania

DATA FROM THE SURVEY OF DENTISTS
AND DENTAL HYGIENISTS RENEWING
LICENSES IN JUNE 2007

VOLUME 3, JUNE 2008



pennsylvania
DEPARTMENT OF HEALTH

ERRATA

Notice of correction to the Special Report on the Characteristics of the Dentist and Dental Hygienist Populations in Pennsylvania: A Report on the June, 2007 Survey of Dentists and Dental Hygienists.

This notice is to inform recipients of the **Special Report on the Characteristics of the Dentist and Dental Hygienist Populations in Pennsylvania: A Report on the June, 2007 Survey of Dentists and Dental Hygienists** that **Table 23** on **page 35** has errors in the **EMPLOYMENT OF PRACTICE AUXILIARIES** section. Please refer to the table shown below for the correct information.

We apologize for any inconvenience this has caused.

<u>PRINCIPAL ACTIVITY</u>	<u>Dental Assistant</u>		<u>Dental Hygienist</u>		<u>Expanded Function Dental Assistant</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
All Dentists	5,059	87.0%	3,843	66.1%	1,205	20.7%
General Dentistry	4,001	87.5%	3,401	74.3%	972	21.2%
Pediatric Dentistry	137	95.1%	129	89.6%	60	41.7%
Geriatric Dentistry	9	56.3%	8	50.0%	2	12.5%
Esthetic Dentistry	29	90.6%	27	84.4%	12	37.5%
Forensic Dentistry	4	100.0%	3	75.0%	0	-
Dental Implants	9	81.8%	7	63.6%	1	9.1%
Orthodontics	313	87.9%	29	8.1%	48	13.5%
Anesthesiology	1	9.1%	1	9.1%	2	18.2%
Facial/Pain Management and/or TMJ Treatment	1	33.3%	0	-	2	66.7%
Oral Surgery	167	74.9%	14	6.3%	24	10.8%
Periodontics	127	92.0%	117	84.8%	15	10.9%
Endodontics	140	90.3%	14	9.0%	34	21.9%
Prosthodontics	88	84.6%	66	63.5%	20	19.2%
Maxillofacial Radiology	1	100.0%	1	100.0%	0	-

TABLE OF CONTENTS

	PAGE
Introduction	i
Methodology and Technical Notes	iii
List of Tables	v
List of Figures	vii
<u>Section I: All Respondents to the Pennsylvania Dentist Survey, 2007</u>	
Employment Status / Primary Employment by State and Demographics	1
State of Employment/State of Graduation	4
<u>Dentists Indicating Residence in Pennsylvania, 2007</u>	
Demographics / Primary Employment	5
<u>Dentists Engaged in Direct Patient Care in Pennsylvania, 2007</u>	
Demographics	9
Education	11
Specialty Board Certification	13
Specialty Board Certification by Age	15
Principal Activity	17
Principal Activity by Age	18
Practice/Employment Sector	19
Employed in Urban/Rural Counties	20
Age Groups by County of Practice	21
Ability to Provide General Anesthesia or Deep Sedation	23
Ability to Accept New Patients by County of Primary Practice	25
Ability to Accept New Patients by Principal Activity	27
Medical Assistance and CHIP Programs by Principal Activity	28
Ability to Accept New Patients/Participation in Medical Assistance and CHIP Programs	30

TABLE OF CONTENTS (cont.)

	PAGE
Employment of Practice Auxiliaries	35
Vacancies of Practice Auxiliaries	36
Anticipating Practicing Dentistry	37
Anticipating Practicing Dentistry in Pennsylvania	38
<u>Section II: All Respondents to the Pennsylvania Dental Hygienist Survey, 2007</u>	
Employment Status and Primary Employment by State	39
State of Employment/State of Graduation	42
<u>Dental Hygienists Indicating Residence in Pennsylvania, 2007</u>	
Demographics / Employment Status	43
Primary Job Function by Age Group	47
<u>Dental Hygienists Employed in Direct Patient Care in Pennsylvania, 2007</u>	
Demographics	48
Graduation From Dental Hygiene School	50
Education and Training Received	52
Certifications	53
Employment Sectors	55
Employed in Urban / Rural Counties	56
Age Groups by County of Employment	58
Career and Job Satisfaction	60
Years Plan to Remain in Dental Hygiene	62
Years Plan to Remain in Dental Hygiene by Career/Job Satisfaction	64
Appendix 1: Data Collection Forms – Pennsylvania Survey of Dentists, 2007 and Pennsylvania Survey of Dental Hygienists, 2007	66
Appendix 2: Federally Designated Dentist Shortage Areas	70
Appendix 3: Comparison of Responses of the Pennsylvania Survey of Dentists and Dental Hygienists	71
Appendix 4: Analysis of Non-Renewing Dentists and Dental Hygienists	76

INTRODUCTION

This report is one in a series of Special Reports on the Health Workforce released under the auspices of the State Health Improvement Plan that will provide lawmakers, researchers, academics, and state agencies with objective, factual data concerning the characteristics of various health professional populations in the Commonwealth. Since 2002, the Department has released reports on the following components of the health workforce:

- ✓ Registered Nurses
- ✓ Licensed Practical Nurses
- ✓ Nursing Education Programs
- ✓ Physicians (MDs and DOs)
- ✓ Dentists
- ✓ Dental Hygienists

All of these reports are available for downloading on the Department's Web site, www.health.state.pa.us/SHIP under the State Health Improvement Plan (SHIP) section.

In response to legislative concerns about the lack of objective information to focus the policy discussion concerning the shortage of health professionals, the Department of Health convened a Health Professions Study Group. This group was comprised of academics, policy leaders, nursing association leaders, hospital and long-term care association representatives and other interested stakeholders working to identify strategies to assure that an adequate and appropriately distributed supply of health professionals will be available to meet the needs of Pennsylvania's diverse population.

This report represents a cooperative effort between the Department of Health and the Department of State, Bureau of Professional and Occupational Affairs. The Department of State agreed to allow the inclusion of a data questionnaire into license renewal applications for dentists and dental hygienists.

Dentists and dental hygienists are licensed as a group every two years. This report represents responses of both dentists and dental hygienists who renewed their licenses in the 2007 licensure cycle. This report marks the third such attempt to gather data about the dentist and dental hygienist population working in Pennsylvania.

How to Use this Report

This report examines a variety of attributes of the dentist and dental hygienist populations in Pennsylvania. It is divided into two sections:

Section 1 – Dentists who responded to the survey

This section is also divided into three parts: all respondents to the survey, dentists indicating residence in Pennsylvania, and dentists engaged in direct patient care in Pennsylvania.

Section 2 – Dental Hygienists who responded to the survey

This section is also divided into three parts: all respondents to the survey, dental hygienists indicating residence in Pennsylvania, and dental hygienists employed in direct patient care in Pennsylvania.

Non-Renewer Statistics

With the cooperation of the Department of State, Bureau of Professional and Occupational Affairs, descriptive data were also collected on the groups of dentists and dental hygienists who did not renew their Pennsylvania licenses. Data included age, state of residences, and non-response category (e.g. license expired or request for inactive status). While these data do not directly address the reasons for non-response (such as a decision to leave the profession or a temporary hiatus from work to raise children), they may be useful in assessing some general characteristics of non-renewers. The detail is reported in Appendix 4.

METHODOLOGY AND TECHNICAL NOTES

In 2004, in response to requests from the General Assembly and others, the Bureau of Professional and Occupational Affairs (BPOA) decided to incorporate the survey forms into the license renewal application for dentists and dental hygienists who renewed their licenses in 2005 and beyond. Also in 2004, BPOA encouraged electronic license renewal. Therefore, the survey instrument was also incorporated into the electronic renewal. Dentists and dental hygienists who desired, were permitted to complete and send a paper application, however the survey form was required as part of a complete application. Incorporating the survey forms into the license renewal applications ensures a higher response rate.

The completed written survey instruments were retrieved from re-licensure applications and sent to the Department of Health as they were received by the Department of State. Surveys were then grouped into batches of one hundred, logged, and sent to a data entry contractor to be keyed, and to be verified by a second operator. When returned, the data entry file was checked for forms with illegal entries, multiple entries, and missing entries. Where a batch yielded unusual numbers of such entries, Department of Health staff compared the paper forms with the data file. Discrepancies between batch counts and records returned were also reconciled.

Electronically completed survey forms were then reviewed by the Department of Health. Duplicate survey form data (electronic and hard copy) were controlled by merging the unique license numbers that were included on each survey form into one data file and looking for potential duplicates.

Comparisons for the response rates for the 2003, 2005, and 2007 licensure periods for dentists and dental hygienists appear below.

DENTISTS	Dentists 2003	Dentists 2005	Dentists 2007
Total # eligible for license renewal	10,235	10,249	9,937
# of license renewals received	9,241	8,757	9,222
Renewal rate (# renewals received/total # dentists)	90.29%	85.44%	92.80%
# of valid surveys received	6,800	6,956	8,326
Response rate (# valid surveys/renewals received)	73.59%	79.43%	90.28%

DENTAL HYGIENISTS	Dental Hygienists 2003	Dental Hygienists 2005	Dental Hygienists 2007
Total # eligible for license renewal	7,285	7,534	7,835
# of license renewals received	6,745	6,787	7,440
Renewal rate (# renewals received/total # hygienists)	92.59%	90.08%	94.96%
# of valid surveys received	5,453	5,738	6,878
Response rate (# valid surveys/renewals received)	80.85%	84.54%	92.45%

With data for approximately 10 percent of renewing dentists and 8 percent of renewing hygienists missing, a caution about the potential for bias is in order. Bias occurs when there is a correlation between some characteristic in the population and the decision to respond or not to respond. Dentists and dental hygienists with the characteristic may choose to respond at a higher rate than dentists and dental hygienists who do not have the characteristic. The surveyor usually has little or no data to show what characteristics are correlated with the decision to respond, or how strong any correlation might be. This publication, then, speaks for a large number of dentists and dental hygienists licensed in Pennsylvania, but not for all of them.

Technical Note on Uses and Limitations of Data

A reasonable estimate of the size and characteristics of the entire population of renewing dentists and dental hygienists can be obtained by applying the response rate to most of the counts reported in this data book.

The calculation for a reasonable estimate of Dentists for 2007 may be determined by using the Count (specific result from one of the surveys for Dentists) divided by the response rate for 2007 (.9028 [refer to bottom line of chart for Dentists on page iii]):

$$\text{Count} \div \text{response rate}$$

For example, if one wishes to estimate the number of female dentists residing in Pennsylvania, start with the number given in Table 4.

$$1,176 \div .9028 = 1,303$$

This method does not include an adjustment for items with missing values, and will yield a conservative, or low, estimate.

Percentages based on small numbers of events over a specified period of time or for under-represented areas should be of particular concern and used cautiously.

LIST OF TABLES

Section I

<u>All Respondents to the Pennsylvania Dentist Survey, 2007</u>		PAGE
Table 1:	Employment Status and Engaged in Direct Patient Care by State	2
Table 2:	Age, Race, Hispanic Origin and Gender	3
Table 3:	State of Employment and State of Graduation	4
<u>Dentists Indicating Residence in Pennsylvania, 2007</u>		
Table 4:	Age, Race, Hispanic Origin and Gender	6
Table 5:	Primary Employment of Dentists by County of Residence	7
<u>Dentists Engaged in Direct Patient Care in Pennsylvania, 2007</u>		
Table 6:	Age, Race, Hispanic Origin and Gender	10
Table 7:	Age/State Graduated From Dental School and Participation in an Accredited Advanced General Dentistry Program of At Least One Year	12
Table 8:	Specialty Board Certification	14
Table 9:	Specialty Board Certification by Age Group	16
Table 10:	Category of Principal Activity	17
Table 11:	Principal Activity by Age Group	18
Table 12:	Practice/Employment Sectors and Full-Time or Part-Time in Primary Job	19
Table 13:	Urban/Rural Practice	20
Table 14:	Age and Average Age of Dentists	21
Table 15:	Ability to Provide General Anesthesia or Deep Sedation by Type of Location	24
Table 16:	Ability to Accept New Patients	25
Table 17:	Ability to Accept New Patients by Principal Activity	27
Table 18:	Participation in Medical Assistance and CHIP Programs in Primary Job by Principal Activity	29
Table 19:	Participation in Medical Assistance and CHIP Programs by Practice Location	29
Table 20:	Availability of Services for New Patients by Participation in Medical Assistance and CHIP Programs	30
Table 21:	Ability to Provide General Anesthesia or Deep Sedation by Type of Location And Participation in Medical Assistance and CHIP Programs	32
Table 22:	Dentists Working in General Dentistry	33
Table 23:	Employment of Practice Auxiliaries by Principal Activity	35
Table 24:	Vacancies of Practice Auxiliaries Due to an Inability to Find Qualified Staff by Principal Activity	36
Table 25:	Years Anticipating Practicing Dentistry by Age of Dentist	37
Table 26:	Years Anticipating Practicing Dentistry in Pennsylvania by Age of Dentist	38

LIST OF TABLES (cont.)

Section II

<u>All Respondents to the Pennsylvania Dental Hygienist Survey, 2007</u>		PAGE
Table 1:	Employment Status and Employed in Direct Patient Care by State	40
Table 2:	Age, Race, Hispanic Origin and Gender	41
Table 3:	State of Employment and State of Graduation	42
<u>Dental Hygienists Indicating Residence in Pennsylvania, 2007</u>		
Table 4:	Age, Race, Hispanic Origin and Gender	44
Table 5:	Employment Status of Licensed Dental Hygienists by County of Residence	45
Table 6:	Primary Job Function by Age Group	47
<u>Dental Hygienists Employed in Direct Patient Care in Pennsylvania, 2007</u>		
Table 7:	Age, Race, Hispanic Origin and Gender	48
Table 8:	Age and State Graduated From Dental Hygiene School	51
Table 9A:	Dental Hygiene Education/Training	52
Table 9B:	Highest Educational Level Attained	52
Table 10:	Certifications by Type and Age by Type of Certification	54
Table 11:	Employment Sectors and Full-Time or Part-Time in Primary Job	55
Table 12:	Urban/Rural Employment	57
Table 13:	Age and Average Age of Dental Hygienists	58
Table 14:	Career and Job Satisfaction	61
Table 15:	Years Plan to Remain in Dental Hygiene by Age	63
Table 16:	Career and Job Satisfaction by Years Plan to Remain in Dental Hygiene	65

LIST OF FIGURES

Section I

All Respondents to the Pennsylvania Dentist Survey, 2007 PAGE

Figure 1: Employment Status	2
Figure 2A: Age Groups	3
Figure 2B: Race	3

Dentists Indicating Residence in Pennsylvania, 2007

Figure 4A: Age Groups	6
Figure 4B: Race	6

Dentists Engaged in Direct Patient Care in Pennsylvania, 2007

Figure 6A: Age Groups	10
Figure 6B: Race	10
Figure 9: Specialty Board Certifications With a Majority of Dentists Age 50 or Older	16
Figure 13: Age Groups of Dentists Practicing in Urban/Rural Counties	20
Figure 14: Average Age of Dentists Engaged in Direct Patient Care in Pennsylvania – 2007 (map)	22
Figure 15: Ability to Provide General Anesthesia or Deep Sedation by County of Primary Practice – 2007 (map)	24
Figure 16: Ability to Accept New Patients by County of Primary Practice – 2007 (map)	26

Section II

All Respondents to the Pennsylvania Dental Hygienist Survey, 2007

Figure 1: Employment Status	40
Figure 2A: Age Groups	41
Figure 2B: Race	41

Dental Hygienists Indicating Residence in Pennsylvania, 2007

Figure 4A: Age Groups	44
Figure 4B: Race	44

Dental Hygienists Employed in Direct Patient Care in Pennsylvania, 2007

Figure 7A: Age Groups	49
Figure 7B: Race	49
Figure 8: Single Year of Age Graduated	51
Figure 10: Type of Certification by Age Groups	54
Figure 12: Dental Hygienists Working in Urban/Rural Counties By Age Group	57
Figure 13: Average Age of Dental Hygienists Employed in Direct Patient Care in Pennsylvania – 2007 (map)	59
Figure 14A: Career Satisfaction	61
Figure 14B: Job Satisfaction	61
Figure 15: Years Plan to Remain in Dental Hygiene	63
Figure 16: Percent of Dental Hygienists Dissatisfied* With Career by Years Plan to Remain in Dental Hygiene	65

* Includes dissatisfied and very dissatisfied

Section I:
**All Respondents to the Pennsylvania
Dentist Survey, 2007**

2007 PENNSYLVANIA DENTIST SURVEY
ALL RESPONDENTS
**EMPLOYMENT STATUS / PRIMARY EMPLOYMENT BY STATE AND
DEMOGRAPHICS**

- √ Among all respondents to the Pennsylvania Dentist Survey, 89.5% were engaged in direct patient care, 3.2% were in dental/medical education, 2.6% were residents, and 1.4% were retired. (Table 1)
- √ Among all respondents to the Pennsylvania Dentist Survey who were engaged in direct patient care, 83.9% were in practice in Pennsylvania and 16.1% were employed in other states.

Age

- √ The average age of all respondents was 50.7 years. (Table 2)
- √ The 50-64 age group contained the highest percentage of dentists among all respondents (43.0%).

Race

- √ 86.9% of all respondents were **White**, 7.4% were **Asian**, and 2.7% were **Black**. (Note: 88.4% of the Pennsylvania population aged 30 and older are **White**, 1.5% are **Asian**, and 8.4% are **Black**.)

Ethnicity

- √ 1.7% percent of all respondents were of Hispanic origin. (Note: The percent of the overall Pennsylvania population age 30 and older of Hispanic origin is 2.1%.)

Gender

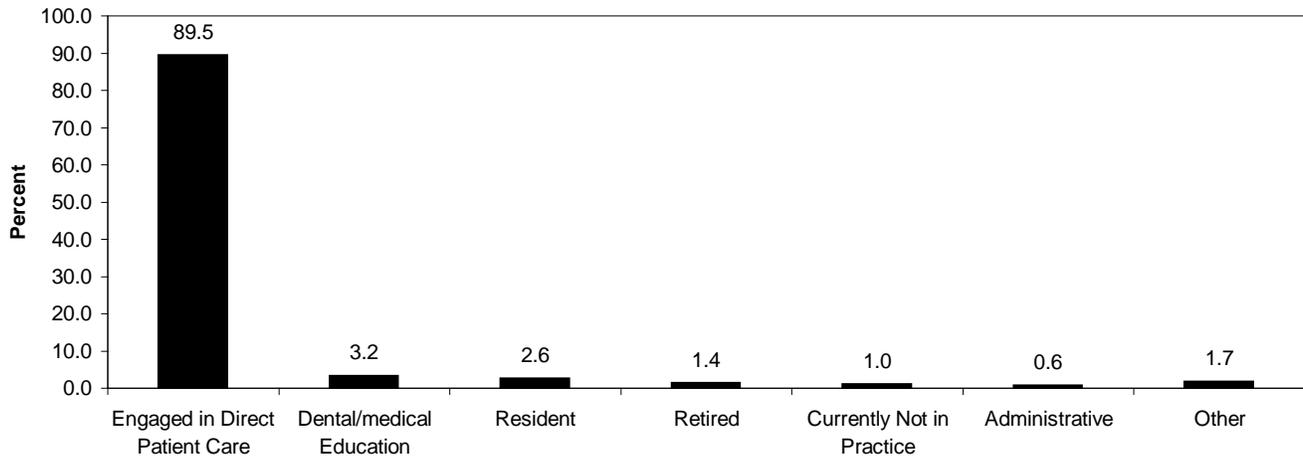
- √ 81.0% of all respondents were male and 19.0% were female. (Note: 46.7% of the Pennsylvania population age 30 and over are male and 53.3% are female.)

Refer to the following table for trended data (2003, 2005, and 2007):

- √ Pages 71-73: Appendix 3 “Comparison of Responses of the Pennsylvania Survey of Dentists Engaged in Direct Patient Care in Pennsylvania”

2007 PENNSYLVANIA DENTIST SURVEY
ALL RESPONDENTS
EMPLOYMENT STATUS AND PRIMARY EMPLOYMENT BY STATE

Figure 1: EMPLOYMENT STATUS



**Table 1: EMPLOYMENT STATUS AND
ENGAGED IN DIRECT PATIENT CARE BY STATE
(Questions 11 & 15)**

EMPLOYMENT STATUS	<u>Number</u>	<u>Percent</u>
Direct Patient Care	7,010	89.5%
Dental/Medical Education	254	3.2%
Resident	202	2.6%
Retired	110	1.4%
Currently Not in Practice	78	1.0%
Administrative	48	0.6%
Other	133	1.7%
Total	7,835	100.0%

STATE OF EMPLOYMENT PROVIDING DIRECT PATIENT CARE	<u>Number</u>	<u>Percent</u>
Pennsylvania	5,807	83.9%
New Jersey	293	4.2%
Maryland	97	1.4%
New York	91	1.3%
Florida	88	1.3%
California	59	0.9%
Ohio	58	0.8%
Delaware	45	0.7%
Virginia	45	0.7%
North Carolina	36	0.5%
All Other States	303	4.4%
Total	6,922	100.0%

Note: Percentages may not equal 100% due to rounding.

Note: "Other" includes other responses such as dental/medical research, other non-patient care, volunteer, and clinical fellow.

**2007 PENNSYLVANIA DENTIST SURVEY
ALL RESPONDENTS
DEMOGRAPHICS**

Figure 2A: AGE GROUPS

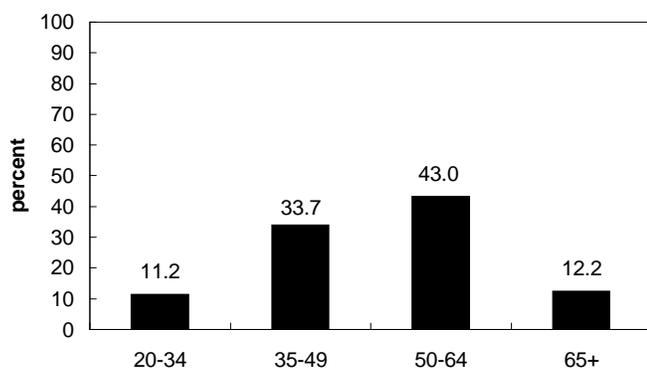
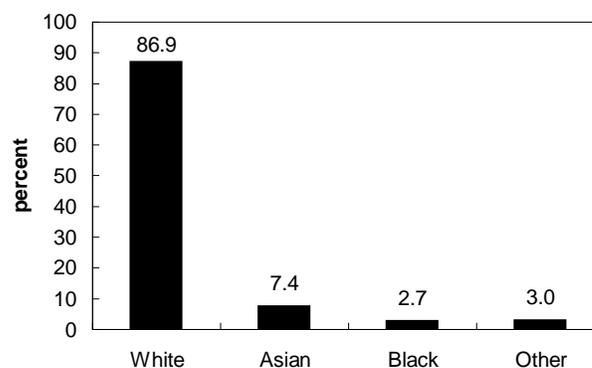


Figure 2B: RACE



**Table 2: AGE, RACE, HISPANIC ORIGIN AND GENDER
(Questions 1, 2, 3, & 4)**

AVERAGE AGE		50.7 years	
AGE	Number	Percent	Percent Pennsylvania Population 30 & Over *
20 - 34	926	11.2%	11.0%
35 - 49	2,792	33.7%	37.9%
50 - 64	3,563	43.0%	25.6%
65+	1,013	12.2%	25.5%
Total	8,294	100.0%	100.0%
RACE	Number	Percent	Percent Pennsylvania Population 30 & Over *
White	7,213	86.9%	88.4%
Asian	613	7.4%	1.5%
Black	224	2.7%	8.4%
Other	246	3.0%	1.7%
Total	8,296	100.0%	100.0%
HISPANIC ORIGIN	Number	Percent	Percent Pennsylvania Population 30 & Over *
	144	1.7%	2.1%
GENDER	Number	Percent	Percent Pennsylvania Population 30 & Over *
Male	6,730	81.0%	46.7%
Female	1,574	19.0%	53.3%
Total	8,304	100.0%	100.0%

Note: Percentages may not equal 100% due to rounding. * Based on 2000 U.S. Census
Note: 1.3% of all respondents are under the age of 30.

2007 PENNSYLVANIA DENTIST SURVEY
ALL RESPONDENTS
STATE OF EMPLOYMENT / STATE OF GRADUATION

- √ Among all respondents to the Pennsylvania Dentist Survey who renewed their Pennsylvania license, 4,525 (88.2%) of dentists who graduated from dental school in Pennsylvania are practicing in Pennsylvania. (Table 3)
- √ Among all respondents to the Pennsylvania Dentist Survey, 73.8% of dentists who practice in Pennsylvania graduated from dental school in Pennsylvania.

Table 3: STATE OF GRADUATION AND STATE OF EMPLOYMENT
(Questions 7 & 15)

STATE OF EMPLOYMENT OF DENTISTS WHO GRADUATED IN PENNSYLVANIA		
	<u>Number</u>	<u>Percent</u>
Pennsylvania	4,525	88.2%
New Jersey	168	3.3%
Florida	50	1.0%
California	39	0.8%
Maryland	36	0.7%
Delaware	34	0.7%
New York	34	0.7%
Virginia	29	0.6%
Ohio	26	0.5%
North Carolina	24	0.5%
All Other States	167	3.3%
Total	5,132	100.0%

STATE OF GRADUATION OF DENTISTS EMPLOYED IN PENNSYLVANIA		
	<u>Number</u>	<u>Percent</u>
Pennsylvania	5,139	73.8%
New York	346	5.0%
Maryland	270	3.9%
District of Columbia	204	2.9%
Massachusetts	170	2.4%
Ohio	156	2.2%
New Jersey	140	2.0%
West Virginia	136	2.0%
Michigan	50	0.7%
Illinois	46	0.7%
All Other States	303	4.4%
Total	6,960	100.0%

Note: Percentages may not equal 100% due to rounding

Dentists Indicating Residence in Pennsylvania, 2007

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS RESIDING IN PENNSYLVANIA
DEMOGRAPHICS AND PRIMARY EMPLOYMENT

Age

- √ The average age of dentists residing in Pennsylvania was 51.3 years. (Table 4)
- √ The 50-64 age group contained the highest percentage of dentists residing in Pennsylvania (44.4%).

Race

- √ 89.2% of dentists residing in Pennsylvania were **White**, 5.9% were **Asian**, and 2.2% were **Black**.
(Note: 88.4% of the Pennsylvania population aged 30 and older are **White**, 1.5% are **Asian**, and 8.4% are **Black**.)

Ethnicity

- √ 1.3% percent of dentists residing in Pennsylvania were of Hispanic origin.
(Note: The percent of the overall Pennsylvania population age 30 and older of Hispanic origin is 2.1%.)

Gender

- √ 82.2% of dentists residing in Pennsylvania were male and 17.8% were female.
(Note: 46.7% of the overall Pennsylvania population age 30 and over are male and 53.3% are female.)

Primary Employment by State of Residence

- √ 91.7% of dentists residing in Pennsylvania were engaged in direct patient care and 2.4% were engaged in dental/medical education. (Table 5)

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS RESIDING IN PENNSYLVANIA
DEMOGRAPHICS**

Figure 4A: AGE GROUPS

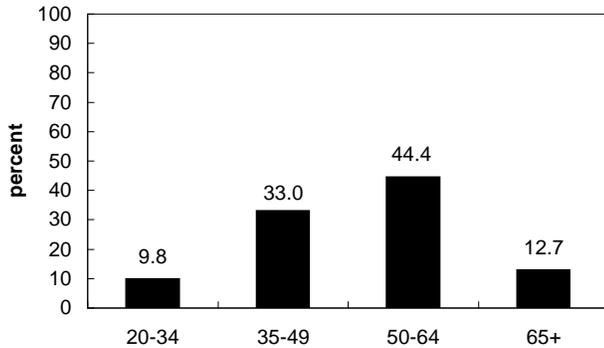


Figure 4B: RACE

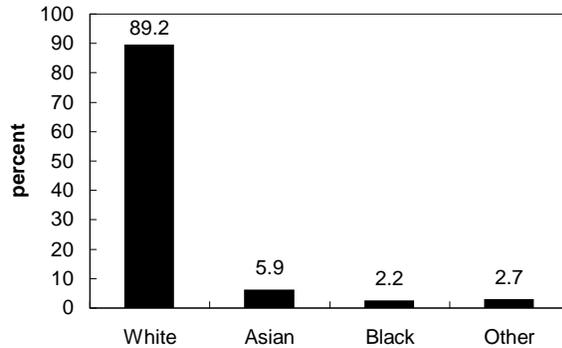


Table 4: AGE, RACE, HISPANIC ORIGIN AND GENDER

(Questions 1, 2, 3, & 4)

AVERAGE AGE		51.3 years	
<u>AGE</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
20 - 34	646	9.8%	11.0%
35 - 49	2,176	33.0%	37.9%
50 - 64	2,926	44.4%	25.6%
65+	836	12.7%	25.5%
Total	6,584	100.0%	100.0%
<u>RACE</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
White	5,878	89.2%	88.4%
Asian	391	5.9%	1.5%
Black	144	2.2%	8.4%
Other	176	2.7%	1.7%
Total	6,589	100.0%	100.0%
<u>HISPANIC ORIGIN</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
	85	1.3%	2.1%
<u>GENDER</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
Male	5,417	82.2%	46.7%
Female	1,176	17.8%	53.3%
Total	6,593	100.0%	100.0%
Note: Percentages may not equal 100% due to rounding.		* Based on 2000 U.S. Census	
Note: 1.2% of all dentists are under the age of 30.			

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS RESIDING IN PENNSYLVANIA
PRIMARY EMPLOYMENT**

**Table 5: PRIMARY EMPLOYMENT OF DENTISTS BY COUNTY OF RESIDENCE
(Questions 5 & 11)**

	Dental/Medical											
	Direct Patient Care			Research		Administrative		Dental/Medical Education			Other [^]	
	Number	Percent		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total												
<i>Pennsylvania</i>	6,231	5,712	91.7%	17	0.3%	30	0.5%	152	2.4%	320	5.1%	
<i>Urban Counties</i>	5,745	5,313	92.5%	17	0.3%	28	0.5%	148	2.6%	239	4.2%	
<i>Rural Counties</i>	486	399	82.1%	0	0.0%	2	0.4%	4	0.8%	81	16.7%	
<u>County</u>												
Adams*	38	33	86.8%	0	-	0	-	2	5.3%	3	7.9%	
Allegheny	868	763	87.9%	3	0.3%	5	0.6%	37	4.3%	60	6.9%	
Armstrong*	17	17	100.0%	0	-	0	-	0	-	0	-	
Beaver	62	59	95.2%	0	-	0	-	0	-	3	4.8%	
Bedford*	19	19	100.0%	0	-	0	-	0	-	0	-	
Berks	148	135	91.2%	0	-	0	-	4	2.7%	9	6.1%	
Blair	50	46	92.0%	0	-	0	-	0	-	4	8.0%	
Bradford*	18	16	88.9%	0	-	0	-	0	-	2	11.1%	
Bucks	445	425	95.5%	2	0.4%	4	0.9%	5	1.1%	9	2.0%	
Butler	98	90	91.8%	0	-	0	-	2	2.0%	6	6.1%	
Cambria	57	52	91.2%	1	1.8%	0	-	1	1.8%	3	5.3%	
Cameron	1	1	100.0%	0	-	0	-	0	-	0	-	
Carbon*	25	23	92.0%	0	-	1	4.0%	0	-	1	4.0%	
Centre	65	56	86.2%	0	-	0	-	1	1.5%	8	12.3%	
Chester	347	324	93.4%	2	0.6%	2	0.6%	7	2.0%	12	3.5%	
Clarion*	12	11	91.7%	0	-	0	-	0	-	1	8.3%	
Clearfield*	28	26	92.9%	0	-	0	-	0	-	2	7.1%	
Clinton*	10	10	100.0%	0	-	0	-	0	-	0	-	
Columbia	21	19	90.5%	0	-	0	-	0	-	2	9.5%	
Crawford*	31	30	96.8%	0	-	0	-	1	3.2%	0	-	
Cumberland	117	112	95.7%	0	-	1	0.9%	1	0.9%	3	2.6%	
Dauphin	129	120	93.0%	0	-	1	0.8%	1	0.8%	7	5.4%	
Delaware	325	296	91.1%	2	0.6%	1	0.3%	15	4.6%	11	3.4%	
Elk	9	9	100.0%	0	-	0	-	0	-	0	-	
Erie	144	137	95.1%	0	-	0	-	1	0.7%	6	4.2%	
Fayette	42	41	97.6%	0	-	0	-	1	2.4%	0	-	
Forest*	2	2	100.0%	0	-	0	-	0	-	0	-	
Franklin	47	44	93.6%	0	-	0	-	0	-	3	6.4%	
Fulton*	2	2	100.0%	0	-	0	-	0	-	0	-	
Greene*	7	6	85.7%	0	-	1	14.3%	0	-	0	-	
Huntingdon*	19	19	100.0%	0	-	0	-	0	-	0	-	
Indiana*	27	26	96.3%	0	-	0	-	1	3.7%	0	-	
Jefferson*	14	13	92.9%	0	-	0	-	0	-	1	7.1%	
Juniata*	4	3	75.0%	0	-	0	-	0	-	1	25.0%	
Lackawanna	137	133	97.1%	0	-	1	0.7%	0	-	3	2.2%	
Lancaster	191	179	93.7%	1	0.5%	0	-	0	-	11	5.8%	
Lawrence	43	41	95.3%	1	2.3%	0	-	0	-	1	2.3%	
Lebanon	46	45	97.8%	0	-	0	-	1	2.2%	0	-	
Lehigh	184	170	92.4%	0	-	0	-	1	0.5%	13	7.1%	
Luzerne	168	160	95.2%	0	-	1	0.6%	1	0.6%	6	3.6%	
Lycoming	41	38	92.7%	0	-	0	-	0	-	3	7.3%	
McKean*	11	11	100.0%	0	-	0	-	0	-	0	-	
Mercer	50	45	90.0%	1	2.0%	0	-	0	-	4	8.0%	
Mifflin*	10	10	100.0%	0	-	0	-	0	-	0	-	

* Rural County - based on the 2000 U.S. Census definition

[^] Includes other responses such as resident, other non-patient care, volunteer, clinical fellow, retired, and currently not in practice

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS RESIDING IN PENNSYLVANIA
PRIMARY EMPLOYMENT

Table 5: PRIMARY EMPLOYMENT OF DENTISTS BY COUNTY OF RESIDENCE (cont.)
(Questions 5 & 11)

	<u>Direct Patient Care</u>			<u>Dental/Medical Research</u>		<u>Administrative</u>		<u>Dental/Medical Education</u>		<u>Other[^]</u>	
	Number	Percent		Number	Percent	Number	Percent	Number	Percent	Number	Percent
	Total										
Monroe	43	41	95.3%	0	-	0	-	1	2.3%	1	2.3%
Montgomery	840	759	90.4%	2	0.2%	8	1.0%	35	4.2%	36	4.3%
Montour*	10	9	90.0%	0	-	0	-	0	-	1	10.0%
Northampton	129	125	96.9%	0	-	0	-	1	0.8%	3	2.3%
Northumberland	25	22	88.0%	0	-	0	-	1	4.0%	2	8.0%
Perry*	70	10	14.3%	0	-	0	-	0	-	60	85.7%
Philadelphia	299	273	91.3%	1	0.3%	1	0.3%	24	8.0%	0	-
Pike*	7	7	100.0%	0	-	0	-	0	-	0	-
Potter*	3	2	66.7%	0	-	0	-	0	-	1	33.3%
Schuylkill	49	48	98.0%	0	-	0	-	0	-	1	2.0%
Snyder*	8	7	87.5%	0	-	0	-	0	-	1	12.5%
Somerset*	25	25	100.0%	0	-	0	-	0	-	0	-
Sullivan*	0	0	-	0	-	0	-	0	-	0	-
Susquehanna*	12	12	100.0%	0	-	0	-	0	-	0	-
Tioga*	7	7	100.0%	0	-	0	-	0	-	0	-
Union	34	32	94.1%	0	-	0	-	0	-	2	5.9%
Venango*	19	19	100.0%	0	-	0	-	0	-	0	-
Warren*	14	8	57.1%	0	-	0	-	0	-	6	42.9%
Washington	98	93	94.9%	0	-	2	2.0%	2	2.0%	1	1.0%
Wayne*	13	12	92.3%	0	-	0	-	0	-	1	7.7%
Westmoreland	235	232	98.7%	0	-	0	-	3	1.3%	0	-
Wyoming*	4	4	100.0%	0	-	0	-	0	-	0	-
York	158	148	93.7%	1	0.6%	1	0.6%	2	1.3%	6	3.8%

* Rural County - based on the 2000 U.S. Census definition

[^] Includes other responses such as resident, other non-patient care, volunteer, clinical fellow, retired, and currently not in practice

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**Dentists Engaged in Direct Patient Care
in Pennsylvania, 2007**

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
DEMOGRAPHICS

Age

- √ The average age of dentists engaged in direct patient care in Pennsylvania was 51.3 years. (Table 6)
- √ The 50-64 age group contained the highest percentage of dentists engaged in direct patient care in Pennsylvania (45.7%).

Race

- √ 89.1% of dentists engaged in direct patient care in Pennsylvania were **White**, 5.8% were **Asian**, and 2.4% were **Black**.
(Note: 88.4% of the Pennsylvania population aged 30 and older are **White**, 1.5% are **Asian**, and 8.4% are **Black**.)

Ethnicity

- √ 1.2% percent of dentists engaged in direct patient care in Pennsylvania were of Hispanic origin.
(Note: The percent of the Pennsylvania population age 30 and older of Hispanic origin is 2.1%.)

Gender

- √ 82.5% of dentists engaged in direct patient care in Pennsylvania were male and 17.5% were female.
(Note: 46.7% of the Pennsylvania population age 30 and over are male and 53.3% are female.)

Refer to the following table for trended data (2003, 2005, and 2007):

- √ Pages 71-73: Appendix 3 “Comparison of Responses of the Pennsylvania Survey of Dentists Engaged in Direct Patient Care in Pennsylvania”

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
DEMOGRAPHICS

Figure 6A: AGE GROUPS

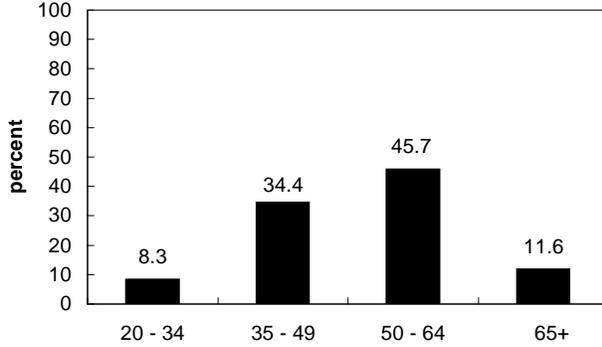


Figure 6B: RACE

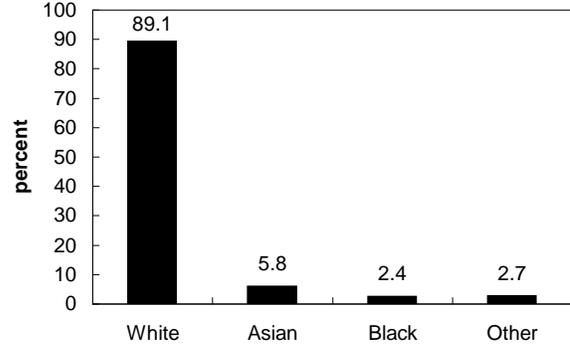


Table 6: AGE, RACE, HISPANIC ORIGIN AND GENDER
(Questions 1, 2, 3, & 4)

AVERAGE AGE		51.3 years	
<u>AGE</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
20 - 34	480	8.3%	11.0%
35 - 49	1,986	34.4%	37.9%
50 - 64	2,644	45.7%	25.6%
65+	671	11.6%	25.5%
Total	5,781	100.0%	100.0%
<u>RACE</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
White	5,155	89.1%	88.4%
Asian	336	5.8%	1.5%
Black	138	2.4%	8.4%
Other	156	2.7%	1.7%
Total	5,785	100.0%	100.0%
<u>HISPANIC ORIGIN</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
	71	1.2%	2.1%
<u>GENDER</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 30 & Over *</u>
Male	4,779	82.5%	46.7%
Female	1,014	17.5%	53.3%
Total	5,793	100.0%	100.0%
Note: Percentages may not equal 100% due to rounding.		* Based on 2000 U.S. Census	
Note: 1.0% of all respondents are under the age of 30.			

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EDUCATION

Age at Graduation from Dental School

- √ 51.2% of dentists engaged in direct patient care in Pennsylvania graduated from a dental school before the age of 30. (Table 7).

State Where Graduated from Dental School

- √ 77.9% of dentists engaged in direct patient care in Pennsylvania graduated from a dental school in Pennsylvania.

Accredited General Dentistry Education Program

- √ 51.2% of dentists engaged in direct patient care in Pennsylvania have never taken an accredited general dentistry education program of at least one-year duration.

State First Licensed

- √ 87.2% of dentists engaged in direct patient care in Pennsylvania indicated that they had received their first license in Pennsylvania.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EDUCATION

**Table 7: STATE / AGE GRADUATED FROM DENTAL SCHOOL AND PARTICIPATION
 IN AN ACCREDITED GENERAL DENTISTRY PROGRAM OF AT LEAST ONE YEAR
 (Questions 6, 7, & 9)**

AGE AT GRADUATION FROM DENTAL SCHOOL	Number	Percent
20-24	939	24.9%
25-29	993	26.3%
30-34	805	21.4%
35-39	470	12.5%
40-44	268	7.1%
45-49	167	4.4%
50-54	86	2.3%
55-59	30	0.8%
60-64	12	0.3%
65-69	0	-
70+	0	0.0%
Total	3,770	100.0%

STATE WHERE GRADUATED FROM DENTAL SCHOOL	Number	Percent
Pennsylvania	4,474	77.9%
New York	237	4.1%
Maryland	194	3.4%
District of Columbia	161	2.8%
West Virginia	113	2.0%
Ohio	107	1.9%
Massachusetts	100	1.7%
New Jersey	82	1.4%
Illinois	33	0.6%
Virginia	32	0.6%
All Other States	211	3.7%
Total	5,744	100.0%

EDUCATION PROGRAM	Number	Percent
Yes	2,798	48.8%
No	2,931	51.2%

Note: 87.2% of dentists engaged in direct patient care in Pennsylvania indicated they received their first license in Pennsylvania
 Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
SPECIALTY BOARD CERTIFICATION

- √ 88.8% of dentists who were engaged in direct patient care in Pennsylvania did not have any specialty board certification. (Table 8)

- √ The specialties with the highest percentages of dentists who were engaged in direct patient care in Pennsylvania included the following:
 - Orthodontics – 3.2%
 - Periodontology – 1.4%
 - Pediatric Dentistry – 1.3%
 - Endodontics – 1.2%

- √ 46 (67.6%) of the 68 responding dentists certified in Periodontology were primarily engaged in Private Practice Solo.

- √ 41 (60.3%) of the 68 responding dentists certified in Pediatric Dentistry were primarily engaged in Private Practice Solo.

- √ 97 (60.2%) of the 161 responding dentists certified in Orthodontics were primarily engaged in Private Practice Solo.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
SPECIALTY BOARD CERTIFICATION

Table 8: SPECIALTY BOARD CERTIFICATION
(Question 10)

SPECIALTY BOARD CERTIFICATION		<u>Number</u>	<u>Percent</u>
Orthodontics		178	3.2%
Periodontology		79	1.4%
Pediatric Dentistry		75	1.3%
Endodontics		65	1.2%
Oral and Maxillofacial Surgery		53	1.0%
Prosthodontics		32	0.6%
Dental Public Health		20	0.4%
Oral and Maxillofacial Pathology		10	0.2%
Maxillofacial Radiology		110	2.0%
None		4,943	88.8%

BOARD CERTIFICATION BY PRIMARY PRACTICE SECTOR									
PRIMARY PRACTICE SECTOR	Dental		Oral and Maxillofacial		Oral and Maxillofacial		Pediatric	Periodon-	Prosthodontics
	<u>Public Health</u>	<u>Endodontics</u>	<u>Pathology</u>	<u>Radiology</u>	<u>Surgery</u>	<u>Orthodontics</u>	<u>Dentistry</u>	<u>tology</u>	<u>ics</u>
Hospital	0	0	0	0	3	1	0	0	1
Nursing Home	0	0	0	0	0	0	0	0	0
Private Practice Solo	12	27	5	41	23	97	41	46	17
Private Practice Partnership	6	24	3	54	24	50	18	14	7
Employee of Another Dentist	1	8	0	5	1	10	6	6	2
Professional School	0	1	0	0	0	0	1	2	0
University/College	0	0	1	0	0	2	0	0	1
Health Center									
Public/Private Elementary/Secondary School	0	0	0	0	0	0	1	0	0
Correctional Facility	0	0	0	0	0	0	0	0	0
Consulting Firm	0	0	0	0	0	0	1	0	0
Non-profit Community	0	0	0	0	0	0	0	0	0
Health Center									
Government Administration	0	0	0	0	0	0	0	0	0
Government Inpatient/Outpatient Facility	0	0	0	0	0	0	0	0	0
Managed Care/Insurance Administration	0	0	0	0	0	0	0	0	0
Military (Federal or State)	0	0	0	0	0	0	0	0	0
Temp Agency/Personnel Pool	0	0	0	0	0	0	0	0	0
Managed Care/Insurance Clinical Staff	0	0	0	0	0	0	0	0	0
Other Business or Industry	0	0	1	2	1	1	0	0	0
Total	<u>19</u>	<u>60</u>	<u>10</u>	<u>102</u>	<u>52</u>	<u>161</u>	<u>68</u>	<u>68</u>	<u>28</u>

Note: Respondents were able to give more than one response for Specialty Board Certification.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
SPECIALTY BOARD CERTIFICATION BY AGE

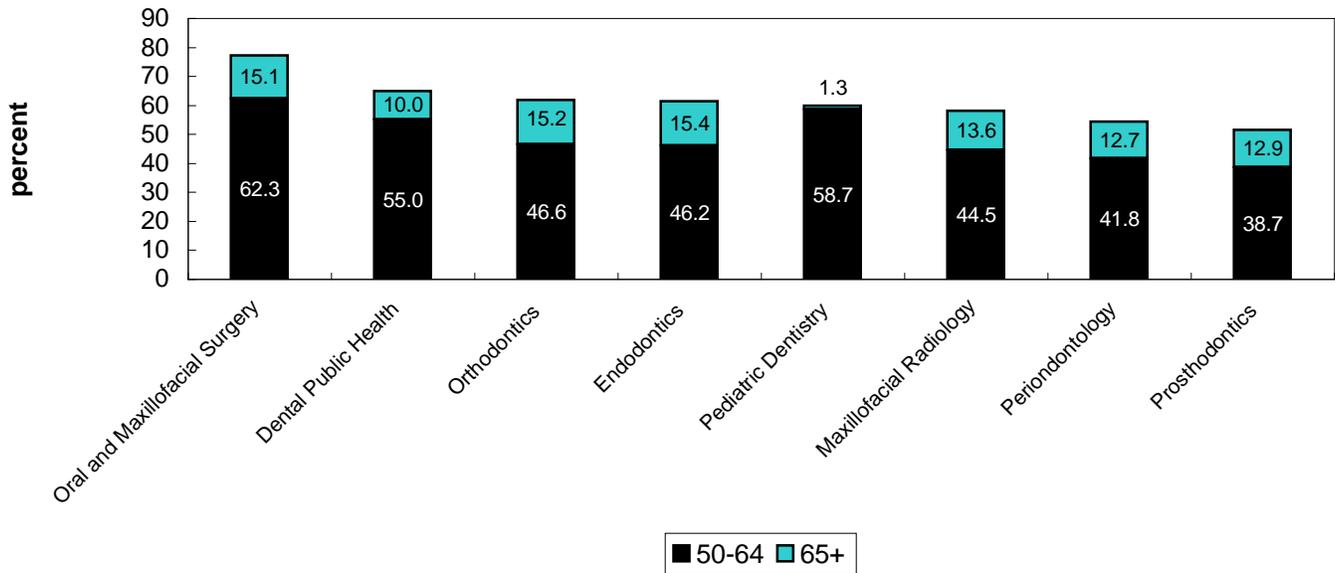
- √ Specialty board certifications with the highest percentages of dentists who were engaged in direct patient care in Pennsylvania and were younger than 50 were as follows (Table 9):
 - Prosthodontics – 48.4%
 - Periodontology – 45.6%
 - Maxillofacial Radiology – 41.8%

- √ Specialty board certifications with the highest percentages of dentists who were engaged in direct patient care in Pennsylvania and were 50-64 years of age were as follows:
 - Oral and Maxillofacial Surgery – 62.3%
 - Oral and Maxillofacial Pathology (6 of 10) – 60.0%
 - Pediatric Dentistry – 58.7%

- √ Specialty board certifications with the highest percentages of dentists who were engaged in direct patient care in Pennsylvania and were 65 or older were as follows:
 - Oral and Maxillofacial Pathology (2 of 10) – 20.0%
 - Endodontics – 15.4%
 - Orthodontics – 15.2%

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
SPECIALTY BOARD CERTIFICATION BY AGE**

**Figure 9: SPECIALTY BOARD CERTIFICATIONS WITH A MAJORITY OF DENTISTS
AGE 50 OR OLDER**



**Table 9: SPECIALTY BOARD CERTIFICATION BY AGE GROUP
(Questions 1 & 10)**

SPECIALTY BOARD CERTIFICATION	AGE GROUP						Total
	<50	Percent	50-64	Percent	65+	Percent	
Orthodontics	68	38.2%	83	46.6%	27	15.2%	178
Periodontology	36	45.6%	33	41.8%	10	12.7%	79
Pediatric Dentistry	30	40.0%	44	58.7%	1	1.3%	75
Endodontics	25	38.5%	30	46.2%	10	15.4%	65
Oral and Maxillofacial Surgery	12	22.6%	33	62.3%	8	15.1%	53
Prosthodontics	15	48.4%	12	38.7%	4	12.9%	31
Dental Public Health	7	35.0%	11	55.0%	2	10.0%	20
Oral and Maxillofacial Pathology	2	20.0%	6	60.0%	2	20.0%	10
Maxillofacial Radiology	46	41.8%	49	44.5%	15	13.6%	110
None	2,167	44.0%	2,231	45.3%	528	10.7%	4,926

Note: Respondents were able to give more than one response for Specialty Board Certification.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
PRINCIPAL ACTIVITY

√ Among dentists engaged in direct patient care in Pennsylvania (Table 10):

- General Dentistry– 79.2%
- Orthodontics – 6.2%
- Oral Surgery– 3.9%

Table 10: CATEGORY OF PRINCIPAL ACTIVITY
(Question 12)

<u>CATEGORY</u>	<u>Number</u>	<u>Percent</u>
General Dentistry	4,569	79.2%
Orthodontics	355	6.2%
Oral Surgery	223	3.9%
Endodontics	155	2.7%
Pediatric Dentistry	144	2.5%
Periodontics	138	2.4%
Prosthodontics	104	1.8%
Esthetic Dentistry	32	0.6%
Geriatric Dentistry	16	0.3%
Anesthesiology	11	0.2%
Dental Implants	11	0.2%
Forensic Dentistry	4	0.1%
Facial/ Pain Mgmt and/or TMJ treatment	3	0.1%
Maxillofacial Radiology	1	0.0%
Total	<u>5,766</u>	<u>100.0%</u>

Note: Percentages may not equal 100% due to rounding.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
PRINCIPAL ACTIVITY BY AGE**

- √ 66.8% of dentists engaged in direct patient care in Pennsylvania who worked in oral surgery were older than 50 years of age. (Table 11)
- √ 63.1% of dentists engaged in direct patient care in Pennsylvania who worked in prosthodontics were older than 50 years of age.
- √ 57.4% of dentists engaged in direct patient care in Pennsylvania who worked in general dentistry were older than 50 years of age.
- √ 46.2% of dentists engaged in direct patient care in Pennsylvania who worked in general dentistry were in the 50-64 year age group.
- √ 79.2% of all dentists engaged in direct patient care in Pennsylvania spent a majority of their practice time in general dentistry.

Table 11: PRINCIPAL ACTIVITY BY AGE GROUP
(Questions 1 & 12)

CATEGORY	AGE GROUP								Total
	<u>20-34</u>	<u>Percent</u>	<u>35-49</u>	<u>Percent</u>	<u>50-64</u>	<u>Percent</u>	<u>65+</u>	<u>Percent</u>	
General Dentistry	409	9.0%	1,530	33.6%	2,101	46.2%	507	11.2%	4,547
Orthodontics	17	4.8%	146	41.1%	137	38.6%	55	15.5%	355
Oral Surgery	8	3.6%	66	29.6%	116	52.0%	33	14.8%	223
Pediatric Dentistry	19	13.2%	47	32.6%	69	47.9%	9	6.3%	144
Periodontics	7	5.1%	54	39.1%	60	43.5%	17	12.3%	138
Endodontics	11	7.1%	59	38.1%	70	45.2%	15	9.7%	155
Prosthodontics	3	2.9%	35	34.0%	48	46.6%	17	16.5%	103
Esthetic Dentistry	2	6.3%	18	56.3%	11	34.4%	1	3.1%	32
Geriatric Dentistry	0	-	9	56.3%	5	31.3%	2	12.5%	16
Anesthesiology	2	18.2%	3	27.3%	5	45.5%	1	9.1%	11
Dental Implants	1	9.1%	5	45.5%	3	27.3%	2	18.2%	11
Forensic Dentistry	0	-	2	50.0%	1	25.0%	1	25.0%	4
Facial/Pain Management and/or TMJ Treatment	0	-	1	33.3%	1	33.3%	1	33.3%	3
Maxillofacial Radiology	0	-	1	-	0	-	0	-	1

Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
PRACTICE/EMPLOYMENT SECTOR

- √ The three most common practice/employment sectors most frequently identified as primary were (Table 12):
 - Private Practice Solo – 61.1%
 - Private Practice Partnership – 22.6%
 - Employee of Another Dentist – 10.8%

- √ 85.7% of male dentists and 68.8% of female dentists worked full-time in their primary jobs.

Table 12: PRACTICE/EMPLOYMENT SECTORS AND FULL-TIME OR PART-TIME BY GENDER IN PRIMARY JOB
(Questions 2, 14, & 15)

<u>PRACTICE/EMPLOYMENT SECTOR</u>	<u>Number</u>		<u>Percent</u>	
Private Practice Solo	3,346		61.1%	
Private Practice Partnership	1,239		22.6%	
Employee of Another Dentist	592		10.8%	
Non-profit Community Health Center	85		1.6%	
Correctional Facility	43		0.8%	
Hospital	39		0.7%	
University/College Health Center	14		0.3%	
Government Inpatient/Outpatient Facility	13		0.2%	
Nursing Home	13		0.2%	
Professional School	10		0.2%	
Military (Federal or State)	6		0.1%	
Temp Agency/Personnel Pool	6		0.1%	
Public/Private Elementary/Secondary School	4		0.1%	
Government Administration	1		0.0%	
Managed Care/Insurance Clinical Staff	1		0.0%	
Other Business or Industry	68		1.2%	
Total	5,480		100.0%	

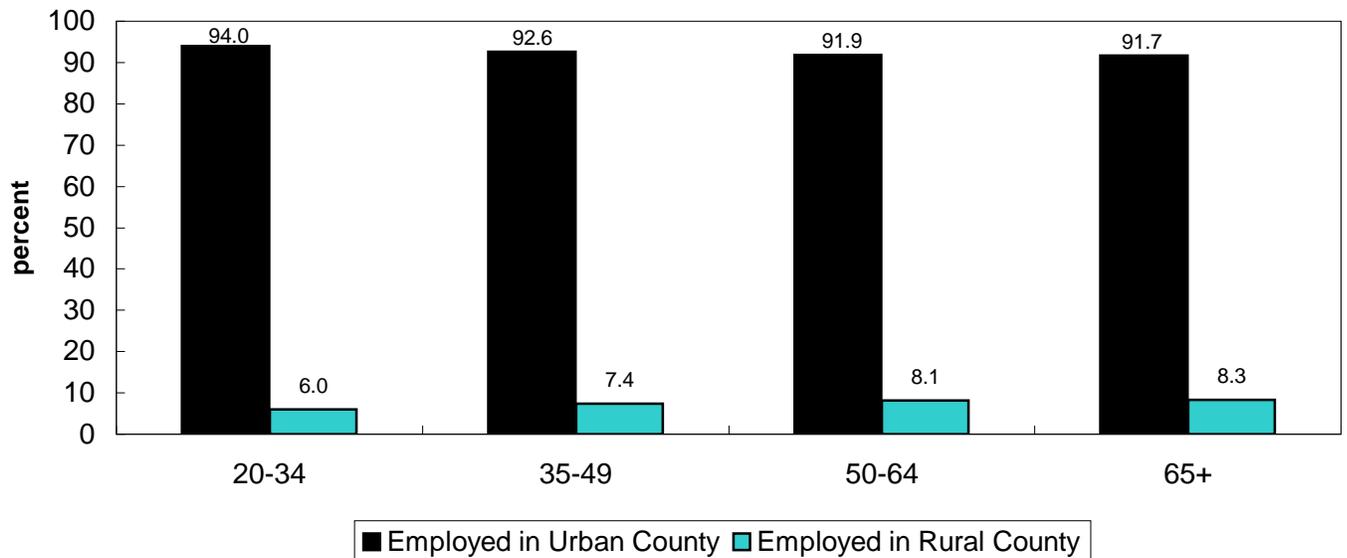
<u>FULL-TIME/PART-TIME EMPLOYMENT</u>	<u>Male</u>		<u>Female</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Full-Time	4,076	85.7%	693	68.8%
Part-Time	682	14.3%	315	31.3%
Total	4,758	100.0%	1,008	100.0%

Note: Percentages may not equal 100% due to rounding.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EMPLOYED IN URBAN/RURAL COUNTIES**

- √ Of dentists engaged in direct patient care in Pennsylvania, 92.3% were practicing in an urban county and 7.7% were practicing in a rural county. (Table 13)
- √ The number of dentists engaged in direct patient care in Pennsylvania per 100,000 population was higher in urban counties (48.9) than in rural counties (30.3).

**Figure 13: AGE GROUPS OF DENTISTS
PRACTICING IN URBAN / RURAL COUNTIES**



**Table 13: URBAN / RURAL PRACTICE
(Question 15)**

DENTISTS PRACTICING IN URBAN/RURAL COUNTY *	<u>Number</u>	<u>Percent</u>	<u>Dentists per 100,000 Population[^]</u>
Urban PA County	5,361	92.3%	48.9
Rural PA County	446	7.7%	30.3
Total	5,807	100.0%	46.7

[^] Population data taken from 2006 U.S. Census estimates
* Urban/Rural defined by 2000 U.S. Census
Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
AGE GROUPS BY COUNTY OF PRACTICE

Table 14: AGE AND AVERAGE AGE OF DENTISTS
(Questions 1 & 15)

	Total	20-34		35-49		50-64		65+		Average Age
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<i>Pennsylvania</i>	5,781	480	8.3%	1,986	34.4%	2,644	45.7%	671	11.6%	51.3
<i>Urban Counties</i>	4,910	410	8.4%	1,704	34.7%	2,236	45.5%	560	11.4%	51.2
<i>Rural Counties</i>	871	70	8.0%	282	32.4%	408	46.8%	111	12.7%	52.0
<u>County</u>										
Adams*	29	3	10.3%	13	44.8%	10	34.5%	3	10.3%	49.0
Allegheny	778	51	6.6%	260	33.4%	374	48.1%	93	12.0%	52.2
Armstrong*	24	1	4.2%	7	29.2%	11	45.8%	5	20.8%	54.5
Beaver	75	7	9.3%	22	29.3%	39	52.0%	7	9.3%	51.5
Bedford*	16	2	12.5%	5	31.3%	8	50.0%	1	6.3%	51.3
Berks	146	13	8.9%	59	40.4%	60	41.1%	14	9.6%	49.7
Blair	52	2	3.8%	22	42.3%	21	40.4%	7	13.5%	51.0
Bradford*	20	4	20.0%	7	35.0%	7	35.0%	2	10.0%	48.5
Bucks	368	39	10.6%	124	33.7%	167	45.4%	38	10.3%	50.4
Butler*	86	11	12.8%	37	43.0%	33	38.4%	5	5.8%	48.9
Cambria	56	3	5.4%	17	30.4%	29	51.8%	7	12.5%	51.5
Cameron*	2	1	50.0%	0	-	0	-	1	50.0%	48.0
Carbon	23	2	8.7%	7	30.4%	13	56.5%	1	4.3%	49.1
Centre	51	8	15.7%	24	47.1%	15	29.4%	4	7.8%	45.6
Chester	256	19	7.4%	103	40.2%	104	40.6%	30	11.7%	50.8
Clarion*	12	2	16.7%	3	25.0%	5	41.7%	2	16.7%	50.5
Clearfield*	29	4	13.8%	15	51.7%	8	27.6%	2	6.9%	46.6
Clinton*	14	0	-	5	35.7%	4	28.6%	5	35.7%	54.2
Columbia*	21	2	9.5%	7	33.3%	10	47.6%	2	9.5%	50.0
Crawford*	30	2	6.7%	4	13.3%	17	56.7%	7	23.3%	55.9
Cumberland	113	2	1.8%	34	30.1%	63	55.8%	14	12.4%	52.8
Dauphin	129	12	9.3%	55	42.6%	50	38.8%	12	9.3%	50.0
Delaware	330	30	9.1%	99	30.0%	160	48.5%	41	12.4%	51.7
Elk*	8	1	12.5%	2	25.0%	3	37.5%	2	25.0%	51.6
Erie	133	8	6.0%	49	36.8%	56	42.1%	20	15.0%	52.3
Fayette*	47	6	12.8%	17	36.2%	20	42.6%	4	8.5%	49.4
Forest*	3	0	-	0	-	2	66.7%	1	33.3%	62.3
Franklin*	46	2	4.3%	12	26.1%	26	56.5%	6	13.0%	53.0
Fulton*	3	1	33.3%	1	33.3%	1	33.3%	0	-	43.0
Greene*	9	0	-	1	11.1%	7	77.8%	1	11.1%	56.7
Huntingdon*	13	0	-	4	30.8%	7	53.8%	2	15.4%	55.0
Indiana*	29	0	-	7	24.1%	17	58.6%	5	17.2%	54.5
Jefferson*	13	0	-	3	23.1%	9	69.2%	1	7.7%	54.0
Juniata*	3	0	-	1	33.3%	2	66.7%	0	-	48.7
Lackawanna	113	7	6.2%	42	37.2%	50	44.2%	14	12.4%	51.7
Lancaster	187	20	10.7%	72	38.5%	84	44.9%	11	5.9%	49.1
Lawrence*	40	2	5.0%	13	32.5%	20	50.0%	5	12.5%	52.0
Lebanon*	51	4	7.8%	10	19.6%	24	47.1%	13	25.5%	55.1
Lehigh	184	14	7.6%	63	34.2%	87	47.3%	20	10.9%	50.5
Luzerne	154	11	7.1%	53	34.4%	71	46.1%	19	12.3%	51.8
Lycoming	40	2	5.0%	9	22.5%	23	57.5%	6	15.0%	55.1
McKean*	12	1	8.3%	3	25.0%	7	58.3%	1	8.3%	53.9
Mercer	48	0	-	22	45.8%	20	41.7%	6	12.5%	52.1
Mifflin*	15	3	20.0%	4	26.7%	7	46.7%	1	6.7%	49.5
Monroe*	46	9	19.6%	15	32.6%	18	39.1%	4	8.7%	49.3
Montgomery	561	49	8.7%	201	35.8%	241	43.0%	70	12.5%	51.4

* Urban/Rural defined by 2000 U.S. Census

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
AGE GROUPS BY COUNTY OF PRACTICE**

Table 14: AGE AND AVERAGE AGE OF DENTISTS (cont.)

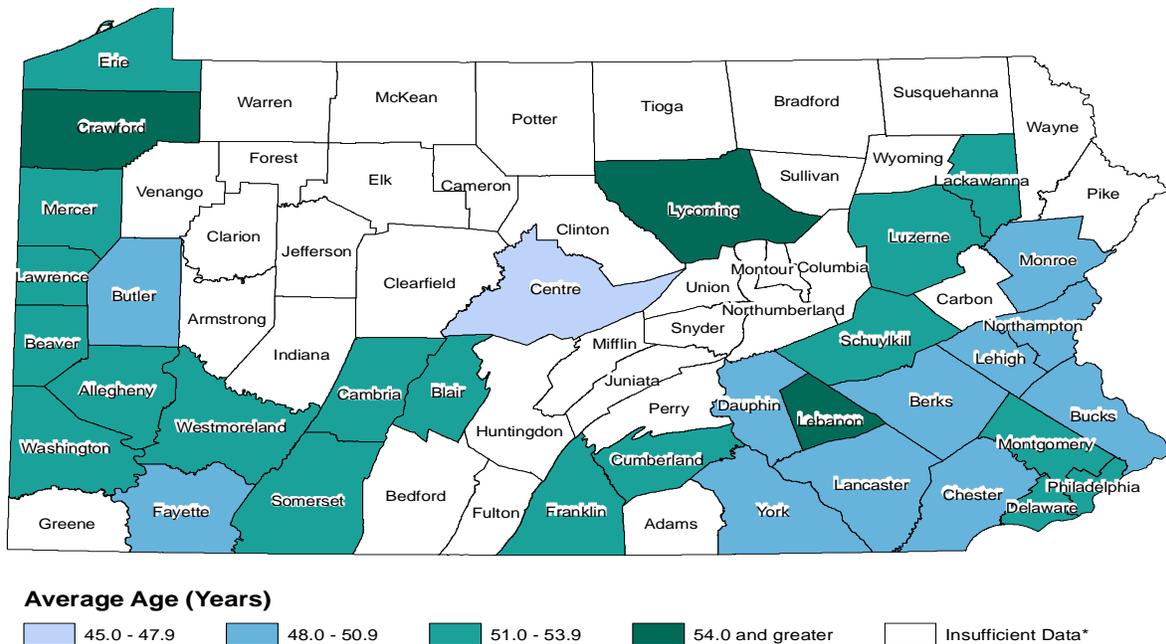
(Questions 1 & 15)

	<u>20-34</u>		<u>35-49</u>		<u>50-64</u>		<u>65+</u>		<u>Average Age</u>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Total										
Montour*	7	0	-	1	14.3%	5	71.4%	1	14.3%	54.6
Northampton	128	15	11.7%	47	36.7%	57	44.5%	9	7.0%	48.6
Northumberland*	28	1	3.6%	7	25.0%	16	57.1%	4	14.3%	54.0
Perry*	11	0	-	1	9.1%	8	72.7%	2	18.2%	58.2
Philadelphia	581	70	12.0%	171	29.4%	259	44.6%	81	13.9%	51.6
Pike*	13	0	-	7	53.8%	6	46.2%	0	-	49.2
Potter*	3	1	33.3%	0	-	2	66.7%	0	-	50.0
Schuylkill*	54	2	3.7%	17	31.5%	28	51.9%	7	13.0%	53.8
Snyder*	13	0	-	6	46.2%	7	53.8%	0	-	49.1
Somerset*	27	1	3.7%	9	33.3%	14	51.9%	3	11.1%	52.4
Sullivan*	0	0	-	0	-	0	-	0	-	-
Susquehanna*	8	0	-	5	62.5%	3	37.5%	0	-	48.4
Tioga*	8	0	-	3	37.5%	5	62.5%	0	-	52.5
Union*	20	2	10.0%	6	30.0%	9	45.0%	3	15.0%	51.1
Venango*	19	0	-	5	26.3%	11	57.9%	3	15.8%	56.5
Warren*	10	0	-	4	40.0%	3	30.0%	3	30.0%	56.4
Washington	88	4	4.5%	33	37.5%	43	48.9%	8	9.1%	51.2
Wayne*	17	2	11.8%	11	64.7%	2	11.8%	2	11.8%	47.6
Westmoreland	168	9	5.4%	61	36.3%	83	49.4%	15	8.9%	51.3
Wyoming*	12	0	-	4	33.3%	6	50.0%	2	16.7%	52.4
York	148	13	8.8%	55	37.2%	67	45.3%	13	8.8%	49.7

* Urban/Rural defined by 2000 U.S. Census

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**Figure 14: AVERAGE AGE OF DENTISTS
ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA - 2007**



* Less than 30 total responses.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION

- √ Among dentists engaged in direct patient care in Pennsylvania who indicated that they were able to provide general anesthesia or deep sedation, the following were the primary locations where the service was provided (Table 15):
- Office – 64.7%
 - Hospital – 26.8%
 - Ambulatory Surgical Setting – 8.4%
- √ Among dentists whose principal activity was general dentistry and who indicated that they were able to provide general anesthesia or deep sedation in general dentistry, the services were primarily provided at the following locations:
- Office – 71.1%
 - Hospital – 19.3%
 - Ambulatory Surgical Setting – 9.6%
- √ Among dentists who indicated that they were able to provide general anesthesia or deep sedation in pediatric dentistry, the services were primarily provided at the following locations:
- Hospital – 68.3%
 - Office – 25.4%
 - Ambulatory Surgical Setting – 6.3%
- √ Among dentists who indicated that they were able to provide general anesthesia or deep sedation in oral surgery, the services were primarily provided at the following locations:
- Office – 75.0%
 - Hospital – 16.7%
 - Ambulatory Surgical Setting – 8.3%

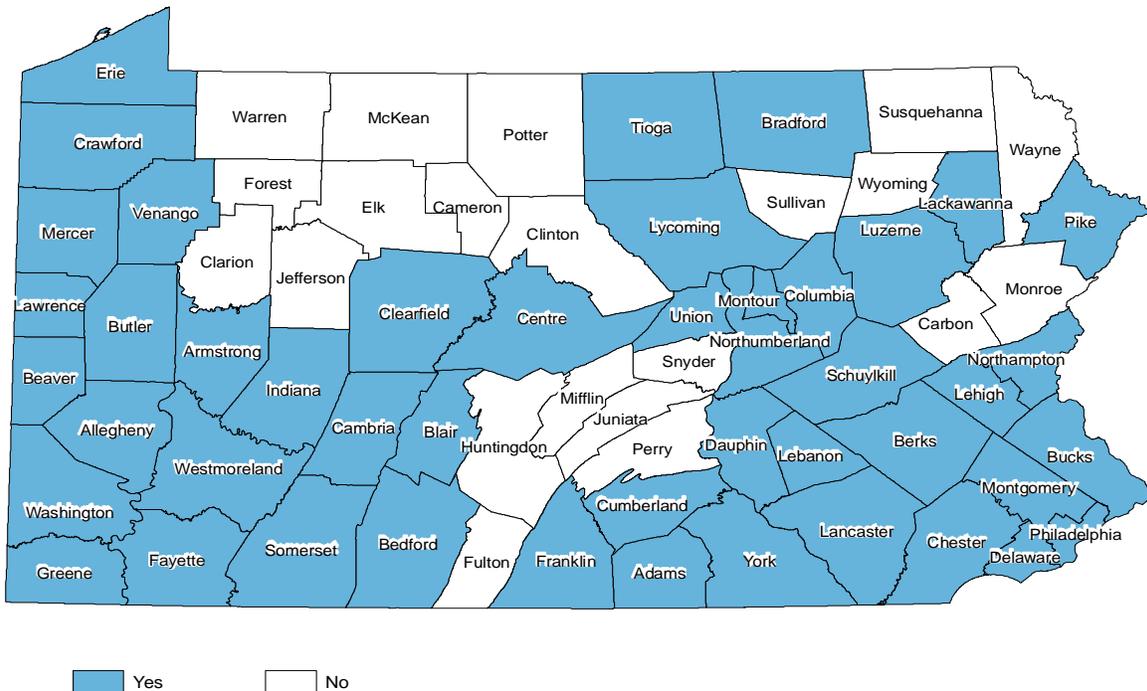
2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION
Table 15: ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION
BY TYPE OF LOCATION
(Questions 12 & 13)

TYPE OF LOCATION	Total	Hospital		Ambulatory Surgical Setting		Office	
		Number	Percent	Number	Percent	Number	Percent
	380	102	26.8%	32	8.4%	246	64.7%

PRINCIPAL ACTIVITY	Total	Hospital		Ambulatory Surgical Setting		Office	
		Number	Percent	Number	Percent	Number	Percent
General Dentistry	197	38	19.3%	19	9.6%	140	71.1%
Pediatric Dentistry	63	43	68.3%	4	6.3%	16	25.4%
Oral Surgery	60	10	16.7%	5	8.3%	45	75.0%
Periodontics	14	1	7.1%	2	14.3%	11	78.6%
Prosthodontics	13	2	15.4%	0	-	11	84.6%
Anesthesiology	10	2	20.0%	1	10.0%	7	70.0%
Endodontics	9	0	-	0	-	9	100.0%
Orthodontics	3	2	66.7%	0	-	1	33.3%
Esthetic Dentistry	2	1	50.0%	0	-	1	50.0%
Geriatric Dentistry	2	0	-	1	50.0%	1	50.0%
Dental Implants	2	1	50.0%	0	-	1	50.0%
Forensic Dentistry	1	0	-	0	-	1	100.0%

Note: Percentages may not equal 100% due to rounding.

**Figure 15: ABILITY TO PROVIDE GENERAL ANETHESIA OR DEEP SEDATION
BY COUNTY OF PRIMARY PRACTICE - 2007**



2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ABILITY TO ACCEPT NEW PATIENTS BY COUNTY OF PRIMARY PRACTICE

√ 97.8% of dentists engaged in direct patient care in Pennsylvania indicated that they were able to accept new patients. (Table 16)

Table 16: ABILITY TO ACCEPT NEW PATIENTS
(Questions 15 & 16)

	Total	YES	
		Number	Percent
<i>Pennsylvania</i>	5,589	5,468	97.8%
<i>Urban Counties</i>	5177	5072	98.0%
<i>Rural Counties</i>	412	396	96.1%
<u>County</u>			
Adams*	29	29	100.0%
Allegheny	766	751	98.0%
Armstrong*	24	24	100.0%
Beaver	74	74	100.0%
Bedford*	11	10	90.9%
Berks	139	139	100.0%
Blair	49	47	95.9%
Bradford*	17	17	100.0%
Bucks	361	356	98.6%
Butler	84	82	97.6%
Cambria	52	51	98.1%
Cameron	2	2	100.0%
Carbon*	22	22	100.0%
Centre	50	47	94.0%
Chester	248	244	98.4%
Clarion*	12	12	100.0%
Clearfield*	29	28	96.6%
Clinton*	13	13	100.0%
Columbia	19	19	100.0%
Crawford*	30	28	93.3%
Cumberland	108	102	94.4%
Dauphin	127	125	98.4%
Delaware	320	317	99.1%
Elk	8	8	100.0%
Erie	130	127	97.7%
Fayette	45	44	97.8%
Forest*	3	1	33.3%
Franklin	44	44	100.0%
Fulton*	3	3	100.0%
Greene*	7	7	100.0%
Huntingdon*	12	9	75.0%
Indiana*	27	25	92.6%
Jefferson*	11	11	100.0%
Juniata*	3	3	100.0%
Lackawanna	111	110	99.1%
Lancaster	176	173	98.3%
Lawrence	39	38	97.4%
Lebanon	46	45	97.8%
Lehigh	181	179	98.9%
Luzerne	149	146	98.0%
Lycoming	34	32	94.1%
McKean*	10	9	90.0%
Mercer	48	48	100.0%

* Rural County - based on the 2000 U.S. Census definition

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ABILITY TO ACCEPT NEW PATIENTS BY COUNTY OF PRIMARY PRACTICE**

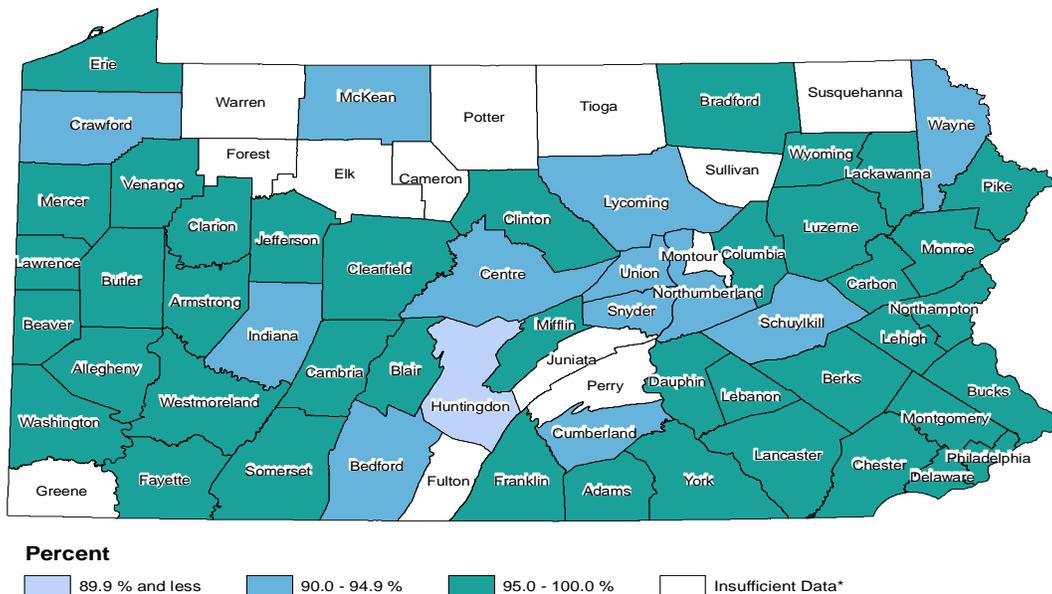
**Table 16: ABILITY TO ACCEPT NEW PATIENTS (cont.)
(Questions 15 & 16)**

		YES	
		Number	Percent
Mifflin*	13	13	100.0%
Monroe	44	43	97.7%
Montgomery	545	531	97.4%
Montour*	6	6	100.0%
Northampton	128	127	99.2%
Northumberland	25	23	92.0%
Perry*	7	6	85.7%
Philadelphia	567	547	96.5%
Pike*	12	12	100.0%
Potter*	3	3	100.0%
Schuylkill	49	45	91.8%
Snyder*	12	11	91.7%
Somerset*	28	28	100.0%
Sullivan*	0	0	-
Susquehanna*	6	6	100.0%
Tioga*	6	6	100.0%
Union	19	18	94.7%
Venango*	18	18	100.0%
Warren*	9	8	88.9%
Washington	87	87	100.0%
Wayne*	17	16	94.1%
Westmoreland	166	165	99.4%
Wyoming*	12	12	100.0%
York	137	136	99.3%

* Rural County - based on the 2000 U.S. Census definition

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**Figure 16: ABILITY TO ACCEPT NEW PATIENTS
BY COUNTY OF PRIMARY PRACTICE - 2007**



* Less than 10 total responses.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ABILITY TO ACCEPT NEW PATIENTS BY PRINCIPAL ACTIVITY

√ 100% of dentists who were engaged in direct patient care in Pennsylvania for the following principal activities indicated that they were able to accept new patients (Table 17):

- Periodontics – 100.0%
- Esthetic Dentistry – 100.0%
- Forensic Dentistry (4) – 100.0%
- Facial/Pain Management/ or TMJ Treatment (3) – 100.0%
- Maxillofacial Radiology (1) – 100.0%

√ Geriatric dentistry and anesthesiology were the only principal activities in which less than 95% of dentists who worked in direct patient care accepted new patients.

Table 17: ABILITY TO ACCEPT NEW PATIENTS BY PRINCIPAL ACTIVITY
(Questions 12 & 17)

<u>PRINCIPAL ACTIVITY</u>	<u>Total Responses</u>	<u>Able to Accept*</u>	<u>Percent</u>
General Dentistry	4,372	4,279	97.9%
Orthodontics	349	347	99.4%
Oral Surgery	220	217	98.6%
Endodontics	155	150	96.8%
Pediatric Dentistry	142	139	97.9%
Periodontics	133	133	100.0%
Prosthodontics	103	98	95.1%
Esthetic Dentistry	31	31	100.0%
Geriatric Dentistry	16	12	75.0%
Dental Implants	11	10	90.9%
Anesthesiology	10	6	60.0%
Forensic Dentistry	4	4	100.0%
Facial/Pain Management and/or TMJ Treatment	3	3	100.0%
Maxillofacial Radiology	1	1	100.0%
* New Patients			

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
MEDICAL ASSISTANCE AND CHIP PROGRAMS
BY PRINCIPAL ACTIVITY

- √ 19.4% of dentists engaged in direct patient care in Pennsylvania indicated that they participate in the Medical Assistance program and 38.4% participate in the Children's Health Insurance Program (CHIP) in their primary practice location. (Table 18)
- √ Dentists engaged in direct patient care in Pennsylvania indicated that they were more likely to participate in the Medical Assistance program at a secondary practice location (25.5%) compared to the primary (19.4%) or tertiary (22.2%) practice location. (Table 19)
- √ Dentists engaged in direct patient care in Pennsylvania indicated that they were more likely to participate in the CHIP Program at the primary practice location (38.4%) compared to the secondary (29.8%) or tertiary practice locations (20.5%).
- √ Note: Dental providers may not be able to identify CHIP members based on the insurance identification card.
- √ Note: Orthodontic care is typically not a covered benefit under CHIP.
- √ For trend data regarding MA and CHIP participation, refer to Appendix 3, "Comparison of Responses of the Pennsylvania Survey" on page 73.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
 MEDICAL ASSISTANCE AND CHIP PROGRAMS BY PRINCIPAL ACTIVITY

Table 18: PARTICIPATION IN MEDICAL ASSISTANCE AND CHIP PROGRAMS IN PRIMARY JOB BY PRINCIPAL ACTIVITY
(Questions 12 & 15)

PRINCIPAL ACTIVITY	Participate in Medical Assistance			Participate in CHIP		
	Total Responses	Programs	Percent	Total Responses	Programs	Percent
Total (Primary Practice)	4,450	863	19.4%	4,988	1,917	38.4%
General Dentistry	3,379	679	20.1%	3,922	1,683	42.9%
Orthodontics	345	30	8.7%	322	7	2.2%
Oral Surgery	169	63	37.3%	174	101	58.0%
Pediatric Dentistry	104	55	52.9%	98	53	54.1%
Endodontics	123	2	1.6%	148	42	28.4%
Periodontics	134	6	4.5%	129	2	1.6%
Prosthodontics	97	5	5.2%	99	5	5.1%
Esthetic Dentistry	25	0	0.0%	32	7	21.9%
Anesthesiology	8	5	62.5%	5	2	40.0%
Dental Implants	10	1	10.0%	9	0	0.0%
Facial/Pain Management and/or TMJ Treatment	3	2	66.7%	2	0	0.0%
Maxillofacial Radiology	0	0	-	0	0	-
Forensic Dentistry	3	0	0.0%	4	2	50.0%

Note: CHIP does not generally cover orthodontics.

**Table 19: PARTICIPATION IN MEDICAL ASSISTANCE AND CHIP PROGRAMS
 BY PRACTICE LOCATION**
(Question 15)

	Primary Practice Location			Secondary Practice Location			Tertiary Practice Location		
	Total	Participate	Percent	Total	Participate	Percent	Total	Participate	Percent
Medical Assistance	4,450	863	19.4%	880	224	25.5%	162	36	22.2%
CHIP	4,988	1,917	38.4%	860	256	29.8%	151	31	20.5%

Note: CHIP members are not necessarily identified.

Note: Please refer to appendix 3 on page 73 for trending information.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
**ABILITY TO ACCEPT NEW PATIENTS/PARTICIPATION IN MEDICAL ASSISTANCE AND
 CHIP PROGRAMS**

√ At least 96.6% of dentists engaged in direct patient care in Pennsylvania were able to accept new patients regardless of their participation in Medical Assistance or CHIP programs in their primary practice (Table 20)

**Table 20: AVAILABILITY OF SERVICES FOR NEW PATIENTS
 BY PARTICIPATION IN MEDICAL ASSISTANCE AND CHIP PROGRAMS**
(Questions 15 & 16)

	<u>Total</u>	<u>Accept New Patients</u>	<u>Percent</u>
Participate in Medical Assistance	820	808	98.5%
Do Not Participate in Medical Assistance	<u>3,448</u>	<u>3,346</u>	<u>97.0%</u>
	4,268	4,154	97.3%
	<u>Total</u>	<u>Accept New Patients</u>	<u>Percent</u>
Participate in CHIP Programs	1,845	1,836	99.5%
Do Not Participate in CHIP Programs	<u>2,954</u>	<u>2,853</u>	<u>96.6%</u>
	4,799	4,689	97.7%

Note: CHIP members are not necessarily identified.

2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
**ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION BY MEDICAL
ASSISTANCE AND CHIP PROGRAMS**

- √ Among the 398 dentists engaged in direct patient care in Pennsylvania who were able to provide general anesthesia or deep sedation, 115 (28.9%) participated in the Medical Assistance program and 131 (32.9%) participated in the CHIP program. (Table 21)
- √ 37.8% of dentists, who participated in medical assistance programs and provided general anesthesia or deep sedation, worked in a hospital. 9.9% worked in an ambulatory surgical setting and 52.3% worked in an office setting.
- √ 66.9% of dentists, who did not participate in medical assistance programs and provide general anesthesia or deep sedation, worked in an office setting.
- √ 69.7% of dentists, who participated in CHIP programs and provided general anesthesia or deep sedation, worked in an office setting. 21.8% worked in a hospital and 8.4% worked in an ambulatory surgical setting.
- √ 66.7% of dentists, who did not participate in CHIP programs and provide general anesthesia or deep sedation, worked in an office setting.
- √ Among dentists, engaged in direct patient care and who worked in general dentistry, 10.6% of those who worked in urban counties and 24.9% of those who worked in rural counties participated in medical assistance. (Table 22)
- √ Among dentists, engaged in direct patient care and who worked in general dentistry, 28.7% of those who worked in urban counties and 32.7% of those who worked in rural counties participated in CHIP.
- √ Note: Dental providers may not be able to identify CHIP members based on the insurance identification card.
- √ Note: Orthodontic care is typically not a covered benefit under CHIP.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
 ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION
 BY MEDICAL ASSISTANCE AND CHIP PROGRAMS

**Table 21: ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION
 BY TYPE OF LOCATION AND PARTICIPATION IN MEDICAL ASSISTANCE AND CHIP PROGRAMS**
(Questions 13 & 15)

ABILITY TO PROVIDE GENERAL ANESTHESIA OR DEEP SEDATION BY MEDICAL ASSISTANCE AND CHIP PROGRAM PARTICIPATION						
	Total		Medical Assistance Participation		CHIP Participation	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Yes	398	6.9%	115	13.5%	131	6.9%
No	5,363	93.1%	738	86.5%	1,768	93.1%
Total	<u>5,761</u>	<u>100.0%</u>	<u>853</u>	<u>100.0%</u>	<u>1,899</u>	<u>100.0%</u>

LOCATION OF GENERAL ANESTHESIA OR DEEP SEDATION BY MEDICAL ASSISTANCE PARTICIPATION					
	Does Not Participate in Medical Assistance		Participates in Medical Assistance		
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	
Hospital	42	23.6%	42	37.8%	
Ambulatory Surgical Setting	17	9.6%	11	9.9%	
Office	119	66.9%	58	52.3%	
Total	<u>178</u>	<u>100.0%</u>	<u>111</u>	<u>100.0%</u>	

LOCATION OF GENERAL ANESTHESIA OR DEEP SEDATION BY CHIP PARTICIPATION					
	Does Not Participate in CHIP		Participates in CHIP		
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	
Hospital	39	25.0%	26	21.8%	
Ambulatory Surgical Setting	13	8.3%	10	8.4%	
Office	104	66.7%	83	69.7%	
Total	<u>156</u>	<u>100.0%</u>	<u>119</u>	<u>100.0%</u>	

Note: CHIP members are not necessarily identified.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
COUNTY OF PRACTICE BY DENTISTS WORKING IN GENERAL DENTISTRY**

Table 22: DENTISTS WORKING IN GENERAL DENTISTRY (Questions 12, 15, 16)

		<u>GENERAL DENTISTRY</u>		<u>ACCEPT NEW PATIENTS</u>		<u>PARTICIPATE IN MEDICAL ASSISTANCE</u>		<u>PARTICIPATE IN CHIP</u>	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
County Total									
<i>Pennsylvania</i>	5,807	4,569	78.7%	4,279	73.7%	679	11.7%	1,683	29.0%
<i>Urban Counties</i>	5,361	4,175	77.9%	3,932	73.3%	568	10.6%	1,537	28.7%
<i>Rural Counties</i>	446	394	88.3%	347	77.8%	111	24.9%	146	32.7%
<u>County</u>									
Adams*	29	21	72.4%	21	72.4%	2	6.9%	4	13.8%
Allegheny	784	588	75.0%	567	72.3%	77	9.8%	284	36.2%
Armstrong*	24	23	95.8%	23	95.8%	8	33.3%	14	58.3%
Beaver	76	58	76.3%	56	73.7%	9	11.8%	27	35.5%
Bedford*	16	15	93.8%	9	56.3%	7	43.8%	7	43.8%
Berks	146	117	80.1%	111	76.0%	10	6.8%	34	23.3%
Blair	52	37	71.2%	33	63.5%	12	23.1%	17	32.7%
Bradford*	20	18	90.0%	15	75.0%	8	40.0%	3	15.0%
Bucks	368	280	76.1%	271	73.6%	16	4.3%	83	22.6%
Butler	86	70	81.4%	67	77.9%	10	11.6%	39	45.3%
Cambria	56	48	85.7%	44	78.6%	22	39.3%	22	39.3%
Cameron	2	2	100.0%	2	100.0%	2	66.7%	1	50.0%
Carbon*	23	19	82.6%	18	78.3%	2	8.7%	10	43.5%
Centre	51	40	78.4%	37	72.5%	5	9.8%	9	17.6%
Chester	258	204	79.1%	195	75.6%	15	5.8%	38	14.7%
Clarion*	12	10	83.3%	10	83.3%	4	33.3%	2	16.7%
Clearfield*	29	24	82.8%	24	82.8%	10	34.5%	10	34.5%
Clinton*	14	14	100.0%	13	92.9%	3	21.4%	9	64.3%
Columbia	22	20	90.9%	17	77.3%	10	45.5%	6	27.3%
Crawford*	30	23	76.7%	21	70.0%	15	50.0%	7	23.3%
Cumberland	113	93	82.3%	82	72.6%	9	8.0%	33	29.2%
Dauphin	129	99	76.7%	97	75.2%	9	7.0%	43	33.3%
Delaware	331	257	77.6%	246	74.3%	21	6.3%	68	20.5%
Elk	8	7	87.5%	7	87.5%	0	-	6	75.0%
Erie	134	104	77.6%	99	73.9%	23	17.2%	51	38.1%
Fayette	47	42	89.4%	39	83.0%	13	27.7%	15	31.9%
Forest*	3	3	100.0%	1	33.3%	0	-	0	-
Franklin	46	43	93.5%	41	89.1%	13	28.3%	12	26.1%
Fulton*	3	3	100.0%	3	100.0%	1	33.3%	3	100.0%
Greene*	9	9	100.0%	7	77.8%	2	22.2%	3	33.3%
Huntingdon*	13	13	100.0%	9	69.2%	5	38.5%	3	23.1%
Indiana*	29	25	86.2%	21	72.4%	4	13.8%	9	31.0%
Jefferson*	13	11	84.6%	9	69.2%	5	38.5%	8	61.5%
Juniata*	3	3	100.0%	3	100.0%	1	33.3%	2	66.7%
Lackawanna	114	87	76.3%	83	72.8%	19	16.7%	46	40.4%
Lancaster	188	150	79.8%	137	72.9%	15	8.0%	41	21.8%
Lawrence	40	35	87.5%	33	82.5%	7	17.5%	15	37.5%
Lebanon	51	47	92.2%	41	80.4%	5	9.8%	7	13.7%
Lehigh	184	137	74.5%	133	72.3%	12	6.5%	48	26.1%
Luzerne	155	124	80.0%	115	74.2%	31	20.0%	47	30.3%
Lycoming	40	26	65.0%	18	45.0%	4	10.0%	10	25.0%
McKean*	12	12	100.0%	9	75.0%	3	25.0%	4	33.3%
Mercer	48	39	81.3%	39	81.3%	13	27.1%	14	29.2%
Mifflin*	15	15	100.0%	13	86.7%	4	26.7%	4	26.7%

* Rural County - based on the 2000 U.S. Census definition

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

Note: CHIP members are not necessarily identified.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
COUNTY OF PRACTICE BY DENTISTS WORKING IN GENERAL DENTISTRY**

Table 22: DENTISTS WORKING IN GENERAL DENTISTRY (cont.) (Questions 12, 15, 16)

	<u>GENERAL DENTISTRY</u>		<u>ACCEPT NEW PATIENTS</u>		<u>PARTICIPATE IN MEDICAL ASSISTANCE</u>		<u>PARTICIPATE IN CHIP</u>		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total									
Monroe	46	36	78.3%	35	76.1%	1	2.2%	18	39.1%
Montgomery	564	411	72.9%	378	67.0%	17	3.0%	93	16.5%
Montour*	7	6	85.7%	6	85.7%	1	14.3%	0	-
Northampton	128	102	79.7%	101	78.9%	4	3.1%	29	22.7%
Northumberland	29	27	93.1%	21	72.4%	6	20.7%	13	44.8%
Perry*	11	11	100.0%	6	54.5%	0	-	2	18.2%
Philadelphia	585	454	77.6%	423	72.3%	115	19.7%	164	28.0%
Pike*	13	9	69.2%	8	61.5%	0	-	2	15.4%
Potter*	3	3	100.0%	3	100.0%	1	33.3%	1	33.3%
Schuylkill	54	45	83.3%	36	66.7%	5	9.3%	30	55.6%
Snyder*	13	9	69.2%	8	61.5%	0	-	3	23.1%
Somerset*	28	25	89.3%	25	89.3%	9	32.1%	8	28.6%
Sullivan*	0	0	-	0	-	0	-	0	-
Susquehanna*	8	8	100.0%	6	75.0%	1	12.5%	4	50.0%
Tioga*	8	7	87.5%	5	62.5%	2	25.0%	3	37.5%
Union	20	16	80.0%	14	70.0%	2	10.0%	4	20.0%
Venango*	19	18	94.7%	17	89.5%	3	15.8%	9	47.4%
Warren*	10	10	100.0%	8	80.0%	2	20.0%	2	20.0%
Washington	88	70	79.5%	69	78.4%	5	5.7%	49	55.7%
Wayne*	17	15	88.2%	14	82.4%	2	11.8%	7	41.2%
Westmoreland	169	135	79.9%	132	78.1%	23	13.6%	65	38.5%
Wyoming*	12	12	100.0%	12	100.0%	6	50.0%	3	25.0%
York	149	125	83.9%	113	75.8%	8	5.4%	56	37.6%

* Rural County - based on the 2000 U.S. Census definition

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable .

Note: CHIP members are not necessarily identified.

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EMPLOYMENT OF PRACTICE AUXILIARIES

√ Dentists engaged in direct patient care in Pennsylvania indicated that they employed the following practice auxiliaries in their office (Table 23):

- Dental Assistant – 87.0%
- Dental Hygienist – 66.1%

√ The principal activities with the highest percentages for dental assistants employed in dentist offices (minimum of 10 responses) were:

- Pediatric Dentistry– 95.1%
- Periodontics – 92.0%

√ The principal activities with the highest percentages for dental hygienists employed in dentist offices (minimum of 10 responses) were:

- Pediatric Dentistry – 89.6%
- Periodontics – 84.8%

√ The principal activities with the highest percentages of expanded function dental assistants employed in dentist offices (minimum of 10 responses) were:

- Pediatric Dentistry – 41.7%
- Esthetic Dentistry – 37.5%

Table 23: EMPLOYMENT OF PRACTICE AUXILIARIES BY PRINCIPAL ACTIVITY
(Questions 12, 15, & 18)

<u>PRINCIPAL ACTIVITY</u>	<u>Dental Assistant</u>		<u>Dental Hygienist</u>		<u>Expanded Function Dental Assistant</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
All Dentists	5,059	87.0%	3,843	66.1%	1,205	20.7%
General Dentistry	4,001	87.5%	3,401	74.3%	972	21.2%
Pediatric Dentistry	137	95.1%	129	89.6%	60	41.7%
Geriatric Dentistry	9	56.3%	8	50.0%	2	12.5%
Esthetic Dentistry	29	90.6%	27	84.4%	12	37.5%
Forensic Dentistry	4	100.0%	3	75.0%	0	-
Dental Implants	9	81.8%	7	63.6%	1	9.1%
Orthodontics	313	87.9%	29	8.2%	48	13.5%
Anesthesiology	1	9.1%	1	9.1%	2	18.2%
Facial/Pain Management and/or TMJ Treatment	1	33.3%	0	-	2	66.7%
Oral Surgery	167	74.9%	14	6.3%	24	10.8%
Periodontics	127	92.0%	117	84.8%	15	10.9%
Endodontics	140	90.3%	14	9.0%	34	21.9%
Prosthodontics	88	84.6%	66	63.5%	20	19.2%
Maxillofacial Radiology	1	100.0%	1	100.0%	0	-

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
VACANCIES OF PRACTICE AUXILIARIES

- √ 9.1% of dentists who are engaged in direct patient care in Pennsylvania and employ dental assistants, indicated difficulty in filling a vacant position, 5.6% of dentists employing dental hygienists indicated difficulty in filling a vacant position, and 2.1% of dentists employing expanded function dental assistants indicated difficulty in filling a vacant position due to an inability to find qualified staff. (Table 24)

- √ The principal activities of dentists who had the most difficult time filling vacancies with qualified dental assistants (minimum of 10 responses) included the following:
 - Orthodontics – 16.6%
 - Prosthodontics – 12.5%
 - Pediatric Dentistry – 11.8%

- √ 6.2% of dentists indicated that they have vacancies for dental hygienists in their office due to an inability to find qualified staff.

- √ 2.2% of dentists indicated that they have vacancies for expanded function dental assistants in their office due to an inability to find qualified staff.

Table 24: VACANCIES OF PRACTICE AUXILIARIES DUE TO AN INABILITY TO FIND QUALIFIED STAFF BY PRINCIPAL ACTIVITY
(Questions 12 & 18)

<u>PRINCIPAL ACTIVITY</u>	<u>Dental Assistant</u>		<u>Dental Hygienist</u>		<u>Expanded Function Dental Assistant</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
All Dentists	524	9.1%	319	5.6%	121	2.1%
General Dentistry	373	8.2%	285	6.2%	100	2.2%
Pediatric Dentistry	17	11.8%	9	6.3%	4	2.8%
Geriatric Dentistry	2	12.5%	1	6.3%	1	6.3%
Esthetic Dentistry	5	15.6%	3	9.4%	1	3.1%
Forensic Dentistry	2	50.0%	0	-	0	-
Dental Implants	1	9.1%	0	-	0	-
Orthodontics	59	16.6%	0	-	7	2.0%
Anesthesiology	0	-	1	9.1%	0	-
Facial/Pain Management and/or TMJ Treatment	0	-	0	-	0	-
Oral Surgery	21	9.4%	0	-	2	0.9%
Periodontics	16	11.6%	9	6.5%	0	-
Endodontics	9	5.8%	0	-	1	0.6%
Prosthodontics	13	12.5%	6	5.8%	5	4.8%
Maxillofacial Radiology	0	-	0	-	0	-

2007 PENNSYLVANIA DENTIST SURVEY
 DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ANTICIPATING PRACTICING DENTISTRY

- √ 14.2% of dentists engaged in direct patient care in Pennsylvania indicated that they would be likely to leave dentistry practice within the next five years. 20.7% indicated they would be likely to leave within 6-10 years. (Table 25)
- √ 3.1% of dentists under the age of 35 indicated that they are planning to leave dentistry in the next 10 years.

**Table 25: YEARS ANTICIPATING PRACTICING DENTISTRY
 BY AGE OF DENTIST
 (Question 1 & 19)**

TOTAL RESPONSES									
	<u>Total Number</u>	<u>0-5 Years</u>		<u>6-10 Years</u>		<u>11-15 Years</u>		<u>16+ Years</u>	
		<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
All Ages	5,750	816	14.2%	1,193	20.7%	1,299	22.6%	2,442	42.5%
AGE GROUP									
20-34	479	12	2.5%	3	0.6%	18	3.8%	446	93.1%
35-49	1,973	38	1.9%	103	5.2%	396	20.1%	1,436	72.8%
50-64	2,613	329	12.6%	920	35.2%	849	32.5%	515	19.7%
65+	660	429	65.0%	163	24.7%	29	4.4%	39	5.9%

Note: Percentages may not equal 100% due to rounding.

**2007 PENNSYLVANIA DENTIST SURVEY
DENTISTS ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA
ANTICIPATING PRACTICING DENTISTRY IN PENNSYLVANIA**

- √ 17.0% of dentists engaged in direct patient care in Pennsylvania anticipate leaving dentistry in Pennsylvania within the next five years. (Table 26)
- √ 18.2% of dentists engaged in direct patient care in Pennsylvania under the age of 35 indicated that they are planning to leave dentistry in Pennsylvania in the next 10 years.

**Table 26: YEARS ANTICIPATING PRACTICING DENTISTRY IN PENNSYLVANIA
BY AGE OF DENTIST
(Questions 1 & 20)**

TOTAL RESPONSES									
	<u>Total Number</u>	<u>0-5 Years</u>		<u>6-10 Years</u>		<u>11-15 Years</u>		<u>16+ Years</u>	
		<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
	5,769	978	17.0%	1,319	22.9%	1,368	23.7%	2,104	36.5%
AGE GROUP									
20-34	477	59	12.4%	28	5.9%	19	4.0%	371	77.8%
35-49	1,979	82	4.1%	136	6.9%	422	21.3%	1,339	67.7%
50-64	2,624	380	14.5%	980	37.3%	892	34.0%	372	14.2%
65+	664	449	67.6%	171	25.8%	28	4.2%	16	2.4%
Note: Percentages may not equal 100% due to rounding.									

Section II:
All Respondents to the Pennsylvania
Dental Hygienist Survey, 2007

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
ALL RESPONDENTS
EMPLOYMENT STATUS AND PRIMARY EMPLOYMENT BY STATE

- √ 90.5% of dental hygienists who responded to the survey were employed in dental hygiene. (Table 1, top portion)
- √ 88.9% of dental hygienists, who responded to the survey indicated that they work in direct patient care, were employed in Pennsylvania. (Table 1, bottom portion)

Age

- √ The average age of all respondents was 42.1 years. (Table 2)
- √ The 35-49 age group contained the highest percentage of dental hygienists among all respondents (48.6%).

Race

- √ 97.1% of all respondents were **White**, 1.4% were **Black**, and 0.6% were **Asian**.
(Note: 87.2% of the Pennsylvania population aged 20 and older are **White**, 8.9% are **Black**, and 1.7% are **Asian**.)

Ethnicity

- √ 1.1% percent of all respondents were of Hispanic origin.
(Note: The percent of the Pennsylvania population age 20 and older of Hispanic origin is 2.5%.)

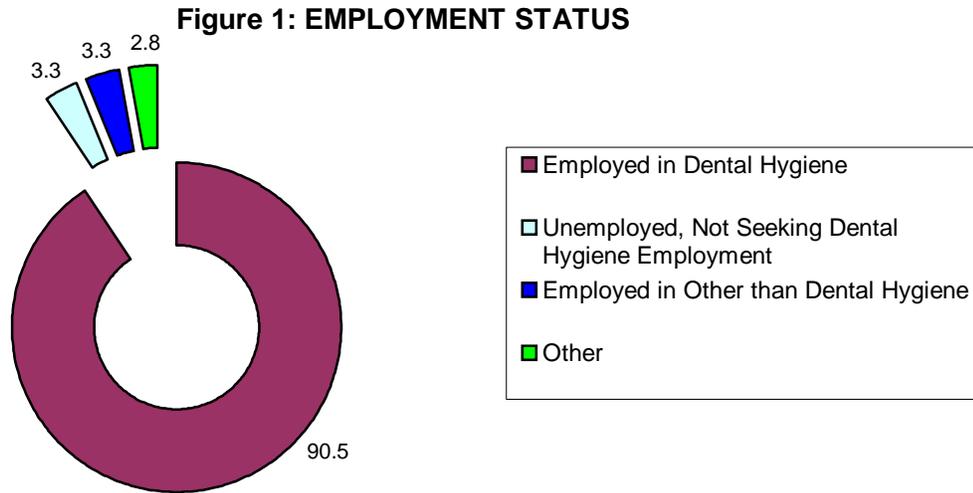
Gender

- √ 99.1% of all respondents were female and 0.9% were male.
(Note: 52.8% of the Pennsylvania population age 20 and over are female and 47.2% are male.)

Refer to the following table for trended data (2003, 2005, and 2007):

- √ Pages 74 and 75: Appendix 3 “Comparison of Responses of the Pennsylvania Survey of Dental Hygienists Employed in Direct Patient Care in Pennsylvania”

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
ALL RESPONDENTS
EMPLOYMENT STATUS AND PRIMARY EMPLOYMENT BY STATE



**Table 1: EMPLOYMENT STATUS AND
EMPLOYED IN DIRECT PATIENT CARE BY STATE**
(Questions 11 & 14)

<u>EMPLOYMENT STATUS</u>	<u>Number</u>	<u>Percent</u>
Employed in Dental Hygiene	6,316	90.5%
Unemployed, Not Seeking Dental Hygiene Employment	233	3.3%
Employed in Other than Dental Hygiene	230	3.3%
Unemployed, Seeking Dental Hygiene Employment	120	1.7%
Retired	53	0.8%
Student	25	0.4%
Total	6,977	100.0%
STATE OF EMPLOYMENT PROVIDING DIRECT PATIENT CARE		
<u>STATE OF EMPLOYMENT PROVIDING DIRECT PATIENT CARE</u>	<u>Number</u>	<u>Percent</u>
Pennsylvania	5,296	88.9%
New Jersey	194	3.3%
Maryland	87	1.5%
Ohio	52	0.9%
Delaware	50	0.8%
New York	40	0.7%
Florida	32	0.5%
Virginia	31	0.5%
West Virginia	22	0.4%
California	19	0.3%
All Other States	133	2.2%
Total	5,956	100.0%

Note: Percentages may not equal 100% due to rounding.

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
ALL RESPONDENTS
DEMOGRAPHICS**

Figure 2A: AGE GROUPS

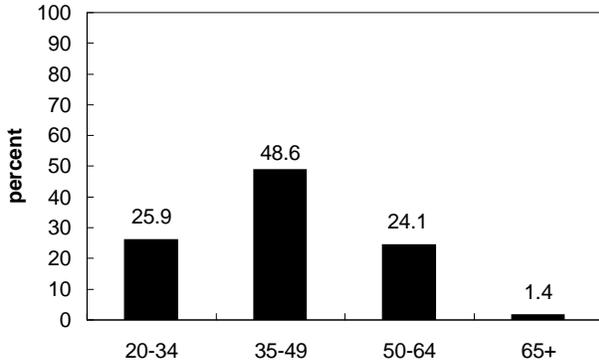
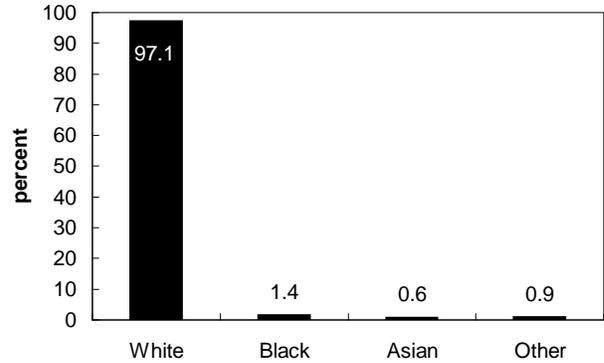


Figure 2B: RACE



**Table 2: AGE, RACE, HISPANIC ORIGIN AND GENDER
(Questions 1, 2, 3, & 4)**

AVERAGE AGE		42.1 years	
<u>AGE</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 20 & Over *</u>
20 - 34	1,773	25.9%	25.6%
35 - 49	3,331	48.6%	31.7%
50 - 64	1,655	24.1%	21.4%
65+	98	1.4%	21.3%
Total	6,857	100.0%	100.0%
<u>RACE</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 20 & Over *</u>
White	6,659	97.1%	87.2%
Black	93	1.4%	8.9%
Asian	44	0.6%	1.7%
Other	63	0.9%	2.2%
Total	6,859	100.0%	100.0%
<u>HISPANIC ORIGIN</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 20 & Over *</u>
	76	1.1%	2.5%
<u>GENDER</u>	<u>Number</u>	<u>Percent</u>	<u>Percent Pennsylvania Population 20 & Over*</u>
Male	63	0.9%	47.2%
Female	6,808	99.1%	52.8%
Total	6,871	100.0%	100.0%
Note: Percentages may not equal 100% due to rounding.		* Based on 2000 U.S. Census	

2007 DENTAL HYGIENIST SURVEY
ALL RESPONDENTS
STATE OF EMPLOYMENT / STATE OF GRADUATION

- √ Among all respondents to the Pennsylvania Dental Hygienist Survey, 93.1% who graduated from a Pennsylvania dental hygiene school were employed in Pennsylvania. (Table 3) (Note: Only dental hygienists who renewed their Pennsylvania license were surveyed.)
- √ Of all respondents to the Pennsylvania Dental Hygienist Survey, 75.4% who were employed in Pennsylvania graduated in Pennsylvania.

Table 3: STATE OF EMPLOYMENT AND STATE OF GRADUATION
(Questions 7 & 14)

STATE OF EMPLOYMENT FOR DENTAL HYGIENISTS WHO GRADUATED IN PENNSYLVANIA		
	Number	Percent
Pennsylvania	4,148	93.1%
New Jersey	107	2.4%
Maryland	33	0.7%
California	19	0.4%
Florida	18	0.4%
Virginia	18	0.4%
Delaware	16	0.4%
North Carolina	9	0.2%
Texas	9	0.2%
New York	8	0.2%
All Other States	70	1.6%
Total	4,455	100.0%
STATE OF GRADUATION FOR DENTAL HYGIENISTS EMPLOYED IN PENNSYLVANIA		
	Number	Percent
Pennsylvania	4,148	75.4%
West Virginia	332	6.0%
Maryland	263	4.8%
New York	255	4.6%
Ohio	116	2.1%
New Jersey	71	1.3%
Connecticut	32	0.6%
Massachusetts	32	0.6%
Delaware	26	0.5%
Virginia	23	0.4%
All Other States	206	3.7%
Total	5,504	100.0%
Note: Percentages may not equal 100% due to rounding.		

**Dental Hygienists Indicating
Residence in Pennsylvania, 2007**

2007 DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS RESIDING IN PENNSYLVANIA
DEMOGRAPHICS / EMPLOYMENT STATUS

Age

- √ The average age of all dental hygienists who reside in Pennsylvania was 42.1 years. (Table 4)
- √ The 35-49 age group had the highest percentage of dental hygienists residing in Pennsylvania (49.0%).

Race

- √ 97.4% of all dental hygienists who reside in Pennsylvania were **White**, 1.1% were **Black**, and 0.6% were **Asian**.
(Note: 87.2% of the Pennsylvania population aged 20 and older are **White**, 8.9% are **Black**, and 1.7% are **Asian**.)

Ethnicity

- √ 1.0% percent of all dental hygienists who reside in Pennsylvania were of Hispanic origin.
(Note: The percent of the overall Pennsylvania population age 20 and older of Hispanic origin is 2.5%.)

Gender

- √ 99.1% of all dental hygienists who resided in Pennsylvania were female and 0.9% were male.
(Note: 52.8% of the overall Pennsylvania population age 20 and over are female and 47.2% are male.)

Employment Status

- √ 91.0% of dental hygienists who reside in Pennsylvania were employed in dental hygiene. (Table 5)
- √ 3.2% of dental hygienists who reside in Pennsylvania were unemployed but were not seeking dental hygiene employment.

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS RESIDING IN PENNSYLVANIA
DEMOGRAPHICS**

Figure 4A: AGE GROUPS

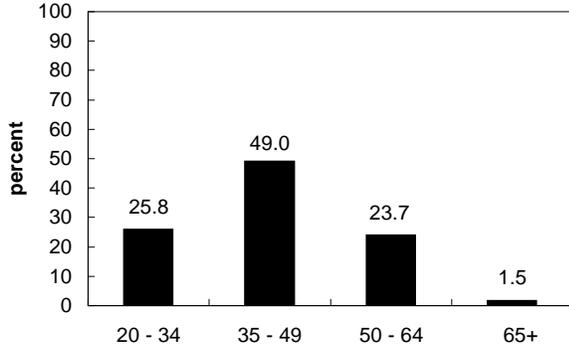
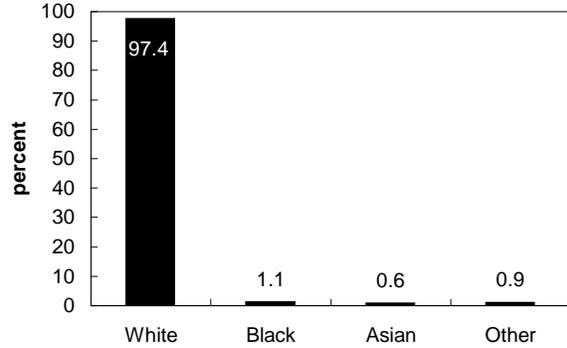


Figure 4B: RACE



**Table 4: AGE, RACE, HISPANIC ORIGIN AND GENDER
(Questions 1, 2, 3, & 4)**

AVERAGE AGE		42.1 years	
AGE	Number	Percent	Percent Pennsylvania Population 20 & Over *
20 - 34	1,562	25.8%	25.6%
35 - 49	2,962	49.0%	31.7%
50 - 64	1,434	23.7%	21.4%
65+	90	1.5%	21.3%
Total	6,048	100.0%	100.0%
RACE		Number	Percent
White	5,897	97.4%	87.2%
Black	69	1.1%	8.9%
Asian	34	0.6%	1.7%
Other	52	0.9%	2.2%
Total	6,052	100.0%	100.0%
HISPANIC ORIGIN		Number	Percent
	60	1.0%	2.5%
GENDER		Number	Percent
Male	56	0.9%	47.2%
Female	6,002	99.1%	52.8%
Total	6,058	100.0%	100.0%

Note: Percentages may not equal 100% due to rounding. * Based on 2000 U.S. Census

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS RESIDING IN PENNSYLVANIA
EMPLOYMENT STATUS**

**Table 5: EMPLOYMENT STATUS OF LICENSED DENTAL HYGIENISTS
BY COUNTY OF RESIDENCE
(Questions 5 & 11)**

	Total	Employed in Dental Hygiene		Unemployed, Seeking Dental Hygiene Employment		Unemployed, Not Seeking Dental Hygiene Employment		Other [^]	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
<i>Pennsylvania</i>	6,052	5,506	91.0%	92	1.5%	192	3.2%	262	4.3%
<i>Urban Counties</i>	5,461	4,965	90.9%	82	1.5%	173	3.2%	241	4.4%
<i>Rural Counties</i>	591	541	91.5%	10	1.7%	19	3.2%	21	3.6%
<u>County</u>									
Adams*	51	45	88.2%	1	2.0%	4	7.8%	1	2.0%
Allegheny	543	486	89.5%	6	1.1%	19	3.5%	32	5.9%
Armstrong*	31	31	100.0%	0	-	0	-	0	-
Beaver	65	55	84.6%	0	-	2	3.1%	8	12.3%
Bedford*	34	32	94.1%	0	-	0	-	2	5.9%
Berks	202	186	92.1%	2	1.0%	5	2.5%	9	4.5%
Blair	58	53	91.4%	1	1.7%	2	3.4%	2	3.4%
Bradford*	25	24	96.0%	0	-	0	-	1	4.0%
Bucks	418	375	89.7%	11	2.6%	7	1.7%	25	6.0%
Butler	120	110	91.7%	1	0.8%	6	5.0%	3	2.5%
Cambria	43	40	93.0%	0	-	3	7.0%	0	-
Cameron	0	0	-	0	-	0	-	0	-
Carbon*	46	42	91.3%	0	-	4	8.7%	0	-
Centre	57	53	93.0%	0	-	1	1.8%	3	5.3%
Chester	294	249	84.7%	3	1.0%	20	6.8%	22	7.5%
Clarion*	12	11	91.7%	1	8.3%	0	-	0	-
Clearfield*	29	24	82.8%	2	6.9%	2	6.9%	1	3.4%
Clinton*	16	13	81.3%	1	6.3%	0	-	2	12.5%
Columbia	37	34	91.9%	1	2.7%	1	2.7%	1	2.7%
Crawford*	37	30	81.1%	1	2.7%	0	-	6	16.2%
Cumberland	173	161	93.1%	1	0.6%	7	4.0%	4	2.3%
Dauphin	122	109	89.3%	2	1.6%	3	2.5%	8	6.6%
Delaware	239	223	93.3%	1	0.4%	6	2.5%	9	3.8%
Elk	11	11	100.0%	0	-	0	-	0	-
Erie	139	130	93.5%	2	1.4%	3	2.2%	4	2.9%
Fayette	52	45	86.5%	1	1.9%	3	5.8%	3	5.8%
Forest*	0	0	-	0	-	0	-	0	-
Franklin	60	58	96.7%	0	-	0	-	2	3.3%
Fulton*	7	6	85.7%	0	-	1	14.3%	0	-
Greene*	15	13	86.7%	1	6.7%	0	-	1	6.7%
Huntingdon*	24	24	100.0%	0	-	0	-	0	-
Indiana*	23	19	82.6%	1	4.3%	2	8.7%	1	4.3%
Jefferson*	8	8	100.0%	0	-	0	-	0	-
Juniata*	9	9	100.0%	0	-	0	-	0	-
Lackawanna	117	107	91.5%	4	3.4%	1	0.9%	5	4.3%
Lancaster	264	248	93.9%	1	0.4%	5	1.9%	10	3.8%
Lawrence	24	23	95.8%	0	-	1	4.2%	0	-
Lebanon	68	65	95.6%	0	-	1	1.5%	2	2.9%
Lehigh	206	188	91.3%	2	1.0%	9	4.4%	7	3.4%
Luzerne	219	196	89.5%	9	4.1%	7	3.2%	7	3.2%
Lycoming	75	70	93.3%	2	2.7%	1	1.3%	2	2.7%
McKean*	14	14	100.0%	0	-	0	-	0	-
Mercer	32	28	87.5%	0	-	2	6.3%	2	6.3%

* Rural County - based on the 2000 U.S. Census definition

[^] Includes other responses such as employed in other than dental hygiene, retired, and student

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS RESIDING IN PENNSYLVANIA
EMPLOYMENT STATUS**

**Table 5: EMPLOYMENT STATUS OF LICENSED DENTAL HYGIENISTS
BY COUNTY OF RESIDENCE (cont.)
(Questions 5 & 11)**

	<u>Employed in Dental Hygiene</u>		<u>Unemployed, Seeking Dental Hygiene Employment</u>		<u>Unemployed, Not Seeking Dental Hygiene Employment</u>		<u>Other[^]</u>		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Mifflin*	18	18	100.0%	0	-	0	-	0	-
Monroe	55	50	90.9%	2	3.6%	2	3.6%	1	1.8%
Montgomery	528	475	90.0%	12	2.3%	18	3.4%	23	4.4%
Montour*	7	5	71.4%	1	14.3%	1	14.3%	0	-
Northampton	239	224	93.7%	3	1.3%	6	2.5%	6	2.5%
Northumberland	45	41	91.1%	2	4.4%	2	4.4%	0	-
Perry*	19	18	94.7%	1	5.3%	0	-	0	-
Philadelphia	253	233	92.1%	5	2.0%	3	1.2%	12	4.7%
Pike*	15	14	93.3%	0	-	0	-	1	6.7%
Potter*	5	4	80.0%	0	-	1	20.0%	0	-
Schuylkill	69	65	94.2%	1	1.4%	0	-	3	4.3%
Snyder*	18	16	88.9%	0	-	1	5.6%	1	5.6%
Somerset*	29	28	96.6%	0	-	1	3.4%	0	-
Sullivan*	2	2	100.0%	0	-	0	-	0	-
Susquehanna*	21	17	81.0%	0	-	2	9.5%	2	9.5%
Tioga*	8	8	100.0%	0	-	0	-	0	-
Union	28	26	92.9%	0	-	0	-	2	7.1%
Venango*	16	15	93.8%	0	-	0	-	1	6.3%
Warren*	18	17	94.4%	0	-	0	-	1	5.6%
Washington	98	86	87.8%	0	-	9	9.2%	3	3.1%
Wayne*	14	14	100.0%	0	-	0	-	0	-
Westmoreland	255	229	89.8%	4	1.6%	12	4.7%	10	3.9%
Wyoming*	20	20	100.0%	0	-	0	-	0	-
York	253	233	92.1%	3	1.2%	6	2.4%	11	4.3%

* Rural County - based on the 2000 U.S. Census definition

[^] Includes other responses such as employed in other than dental hygiene, retired, and student

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS RESIDING IN PENNSYLVANIA
PRIMARY JOB FUNCTION BY AGE GROUP

- √ 96.8% of dental hygienists who reside in Pennsylvania were employed in direct patient care, 1.9% were employed as an Educator and 0.8% were employed in administration/management. (Table 6)
- √ More than 93% of dental hygienists who reside in Pennsylvania were employed in direct patient care among all age groups.

Table 6: PRIMARY JOB FUNCTION BY AGE GROUP
(Questions 1 & 12)

<u>PRIMARY JOB</u>			<u>Number</u>		<u>Percent</u>			
Direct Patient Care			5,258		96.8%			
Educator (includes in-service)			105		1.9%			
Administration/Management			45		0.8%			
Researcher/Consultant			10		0.2%			
Other			16		0.3%			
Total			<u>5,434</u>		<u>100.0%</u>			

<u>PRIMARY JOB</u>	<u>20-34</u>		<u>35-49</u>		<u>50-64</u>		<u>65+</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Direct Patient Care	1,455	99.1%	2,561	97.2%	1,163	93.0%	64	97.0%
Administration/Management	2	0.1%	22	0.8%	21	1.7%	0	0.0%
Educator (includes in-service)	4	0.3%	43	1.6%	56	4.5%	2	3.0%
Researcher/Consultant	1	0.1%	3	0.1%	6	0.5%	0	-
Other	6	0.4%	5	0.2%	5	0.4%	0	-
Total	<u>1,468</u>	<u>100.0%</u>	<u>2,634</u>	<u>100.0%</u>	<u>1,251</u>	<u>100.0%</u>	<u>66</u>	<u>100.0%</u>

Note: Percentages may not equal 100% due to rounding.

**Dental Hygienists Employed in Direct Patient Care
in Pennsylvania, 2007**

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
DEMOGRAPHICS

Age

- √ The average age of dental hygienists employed in direct patient care was 41.4 years. (Table 7)
- √ The 35-49 age group had the highest percentage of dental hygienists employed in direct patient care in Pennsylvania (48.8%).

Race

- √ 97.4% of dental hygienists employed in direct patient care were **White**, 1.2% were **Black**, and 0.6% were **Asian**.
(Note: 87.2% of the Pennsylvania population aged 20 and older are **White**, 8.9% are **Black**, and 1.7% are **Asian**.)

Ethnicity

- √ 1.0% percent of dental hygienists employed in direct patient care were of Hispanic origin.
(Note: The percent of the Pennsylvania population age 20 and older of Hispanic origin is 2.5%.)

Gender

- √ 99.1% of dental hygienists employed in direct patient care were female and 0.9% were male.
(Note: 52.8% of the Pennsylvania population age 20 and over are female and 47.2% are male.)

Refer to the following table for trended data (2003, 2005, and 2007):

- √ Pages 74 and 75: Appendix 3, section titled “Comparison of Responses of the Pennsylvania Survey of Dental Hygienists Employed in Direct Patient Care in Pennsylvania”

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
 DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
DEMOGRAPHICS

Figure 7A: AGE GROUPS

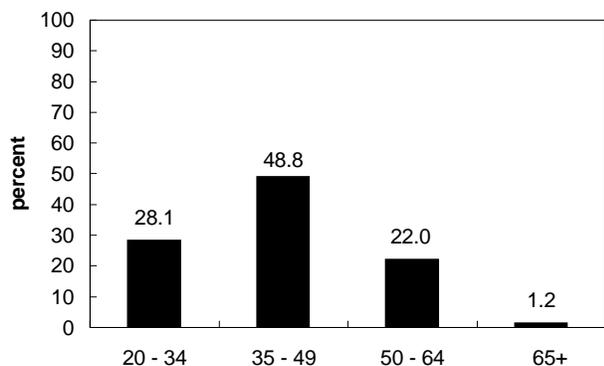


Figure 7B: RACE

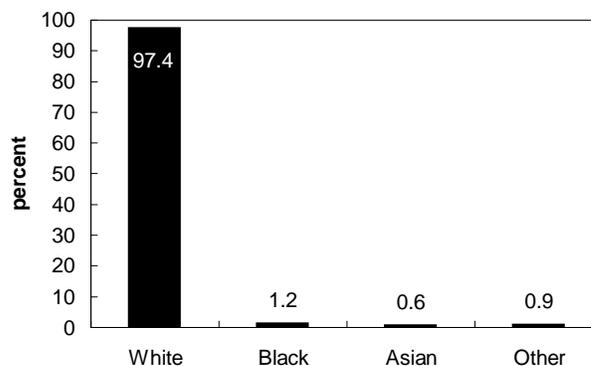


Table 7: AGE, RACE, HISPANIC ORIGIN AND GENDER
 (Questions 1, 2, 3, & 4)

AVERAGE AGE		41.4 years	
AGE	Number	Percent	Percent Pennsylvania Population 20 & Over *
20 - 34	1,484	28.1%	25.6%
35 - 49	2,576	48.8%	31.7%
50 - 64	1,161	22.0%	21.4%
65+	62	1.2%	21.3%
Total	5,283	100.0%	100.0%
RACE	Number	Percent	Percent Pennsylvania Population 20 & Over *
White	5,145	97.4%	87.2%
Black	65	1.2%	8.9%
Asian	30	0.6%	1.7%
Other	45	0.9%	2.2%
Total	5,285	100.0%	100.0%
HISPANIC ORIGIN	Number	Percent	Percent Pennsylvania Population 20 & Over *
	52	1.0%	2.5%
GENDER	Number	Percent	Percent Pennsylvania Population 20 & Over*
Male	47	0.9%	47.2%
Female	5,243	99.1%	52.8%
Total	5,290	100.0%	100.0%

Note: Percentages may not equal 100% due to rounding. * Based on 2000 U.S. Census

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
GRADUATION FROM DENTAL HYGIENE SCHOOL

- √ 67.2% of dental hygienists employed in direct patient care in Pennsylvania were between the ages of 20 and 24 when they graduated from dental hygiene school. (Table 8, top portion)
- √ 22.4% of dental hygienists employed in direct patient care in Pennsylvania reported that they graduated from dental hygiene school at the age of 20. (Figure 8)
- √ 75.5% of dental hygienists employed in direct patient care in Pennsylvania graduated from a Pennsylvania dental hygiene school. (Table 8, bottom portion)

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
 DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
GRADUATION FROM DENTAL HYGIENE SCHOOL

Figure 8: SINGLE YEAR OF AGE GRADUATED

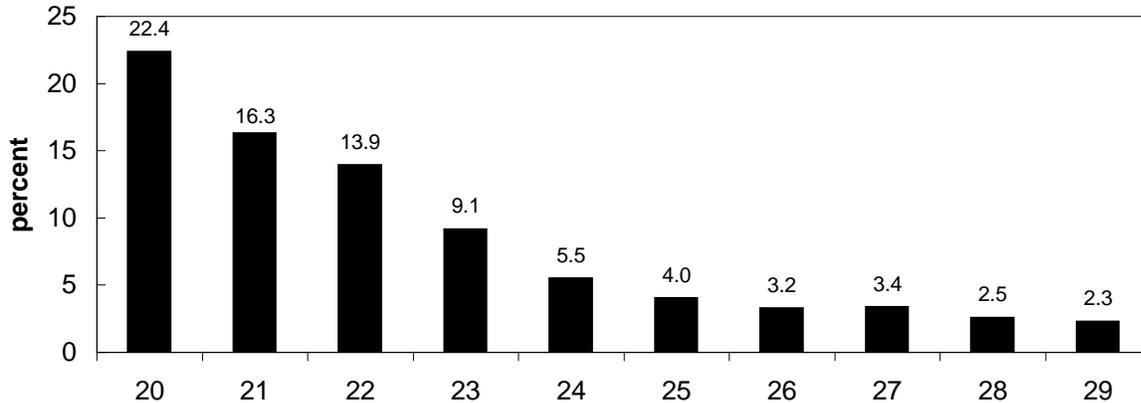


Table 8: AGE AND STATE GRADUATED FROM DENTAL HYGIENE SCHOOL
(Questions 1 & 7)

<u>AGE</u>	<u>Number</u>	<u>Percent</u>
18-19	80	1.6%
20-24	3,413	67.2%
25-29	786	15.5%
30-34	381	7.5%
35-39	240	4.7%
40-44	126	2.5%
45-49	43	0.8%
50-54	12	0.2%
60-64	1	0.0%
Total	5,082	100.0%

<u>STATE</u>	<u>Number</u>	<u>Percent</u>
Pennsylvania	3,986	75.5%
West Virginia	321	6.1%
Maryland	256	4.8%
New York	236	4.5%
Ohio	114	2.2%
New Jersey	66	1.2%
Massachusetts	29	0.5%
Connecticut	28	0.5%
Delaware	25	0.5%
Virginia	23	0.4%
All Other States	197	3.7%
Total	5,281	100.0%

Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EDUCATION AND TRAINING RECEIVED

- √ When asked to indicate whether their dental hygiene education/training was either through an associate degree program or bachelor’s degree program, 86.2% of dental hygienists employed in direct patient care in Pennsylvania indicated education/training in an Associate’s Degree Program and 13.8% indicated education/training in a Bachelor’s Degree Program (Table 9A).
- √ In a separate question, dental hygienists were asked about their highest educational level attained. Of the 86.2% of dental hygienists indicating dental hygiene training through an associate degree program, 10.4% reported attaining an educational level of bachelor’s degree or higher.
- √ 77.3% of dental hygienists employed in direct patient care in Pennsylvania indicated their highest educational level attained was an associate’s degree (Table 9B).

Table 9A: DENTAL HYGIENE EDUCATION/TRAINING
(Questions 8 & 9)

<u>EDUCATION</u>	<u>Number</u>	<u>Percent</u>
Associate's Degree Program	4,555	86.2%
Bachelor's Degree Program	730	13.8%
Total	<u>5,285</u>	<u>100.0%</u>

Note: Percentages may not equal 100% due to rounding.

Table 9B: HIGHEST EDUCATIONAL LEVEL ATTAINED
(Questions 8 & 9)

<u>HIGHEST EDUCATIONAL LEVEL ATTAINED</u>	<u>Number</u>	<u>Percent</u>
Associate	4,083	77.3%
Bachelor	1,106	20.9%
Master	83	1.6%
Doctorate	9	0.2%
Total	<u>5,281</u>	<u>100.0%</u>

Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
CERTIFICATIONS

- √ The majority (92.1) of dental hygienists employed in direct patient care in Pennsylvania reported no advanced certification. (Table 10, top portion)

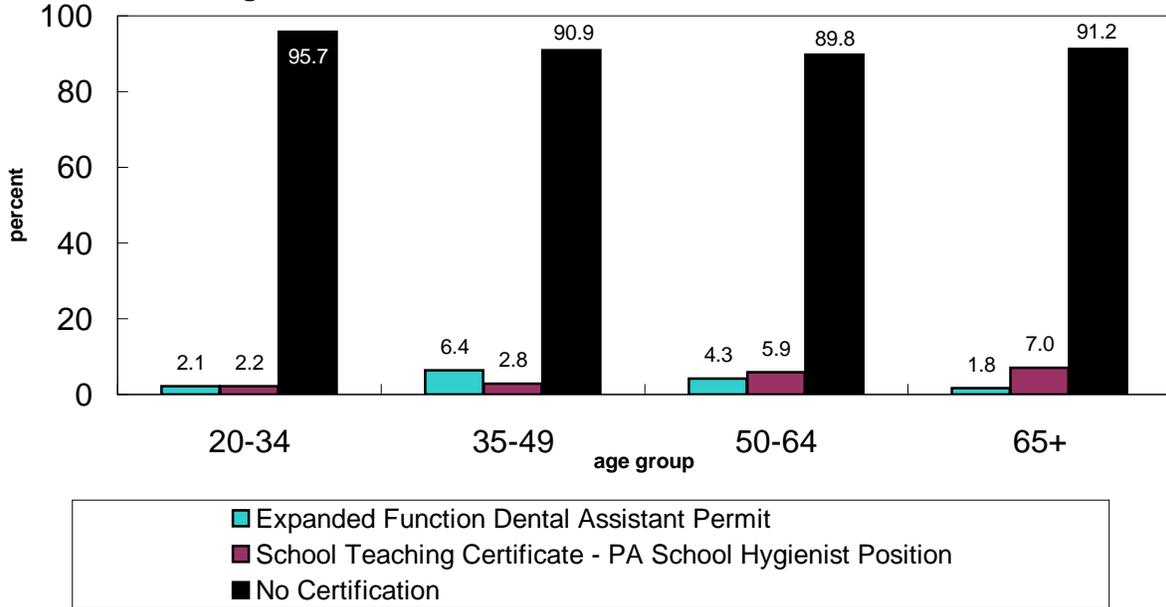
- √ The percentages of dental hygienists employed in direct patient care in Pennsylvania with no advanced certification were (Figure 10):
 - 95.7% for those under the age of 35
 - 90.9% of those ages 35-49
 - 89.8% of those ages 50-64
 - 91.2% of those ages 65 and older

- √ The percentages of dental hygienists with a school teaching certificate were:
 - 2.2% for those under age 35
 - 2.8% of those ages 35-49
 - 5.9% of those ages 50-64,
 - 7.0% of those ages 65 and older

- √ 66.7% of dental hygienists with an expanded function dental assistant permit and 40.7% of dental hygienists with a school teaching certificate were between the ages of 35 and 49. (Table 10, bottom portion)

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
CERTIFICATIONS**

Figure 10: TYPE OF CERTIFICATION BY AGE GROUPS



**Table 10: CERTIFICATIONS BY TYPE AND AGE BY TYPE OF CERTIFICATION
(Questions 1 & 10)**

<u>CERTIFICATION</u>	<u>Number</u>		<u>Percent</u>	
Expanded Function Dental Assistant Permit	241		4.7%	
School Teaching Certificate-PA School Hygienist Position	173		3.3%	
None	4,763		92.1%	

<u>AGE GROUP</u>	<u>Expanded Function Dental Assistant Permit</u>		<u>School Teaching Certificate-PA School Hygienist Position</u>		<u>No Certifications</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
20-34	31	12.9%	32	18.6%	1,411	29.7%
35-49	160	66.7%	70	40.7%	2,287	48.1%
50-64	48	20.0%	66	38.4%	1,006	21.2%
65+	1	0.4%	4	2.3%	52	1.1%
Total	<u>240</u>	<u>100.0%</u>	<u>172</u>	<u>100.0%</u>	<u>4,756</u>	<u>100.0%</u>

2007 DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EMPLOYMENT SECTORS

- √ 61.4% of dental hygienists employed in direct patient care in Pennsylvania worked in a private practice/solo dentist setting, while 33.5% worked in a private practice partnership setting. (Table 11)
- √ 54.3% of dental hygienists employed in direct patient care in Pennsylvania indicated that they worked full-time.

**Table 11: EMPLOYMENT SECTORS AND FULL-TIME OR PART-TIME
IN PRIMARY JOB
(Questions 13 & 14)**

<u>EMPLOYMENT SECTOR</u>	<u>Number</u>	<u>Percent</u>
Private Practice, Solo Dentist	3,243	61.4%
Private Practice Partnership	1,769	33.5%
Non-profit Community Health Center	69	1.3%
Hospital	46	0.9%
Temp Agency/Personnel Pool	39	0.7%
Correctional Facility	33	0.6%
University/College Health Center	14	0.3%
Professional School	11	0.2%
Public/Private Elementary/Secondary School	8	0.2%
Nursing Home	6	0.1%
Government Inpatient/Outpatient Facility	5	0.1%
Government Administration	3	0.1%
Military	3	0.1%
Consulting Firm	1	0.0%
Managed Care/Insurance Administration	1	0.0%
Managed Care/Insurance Clinical Staff	1	0.0%
Other Business or Industry	28	0.5%
Total	<u>5,280</u>	<u>100.0%</u>

<u>FULL-TIME/PART-TIME EMPLOYMENT</u>	<u>Number</u>	<u>Percent</u>
Full-Time	2,869	54.3%
Part-Time	<u>2,412</u>	<u>45.7%</u>
Total	<u>5,281</u>	<u>100.0%</u>

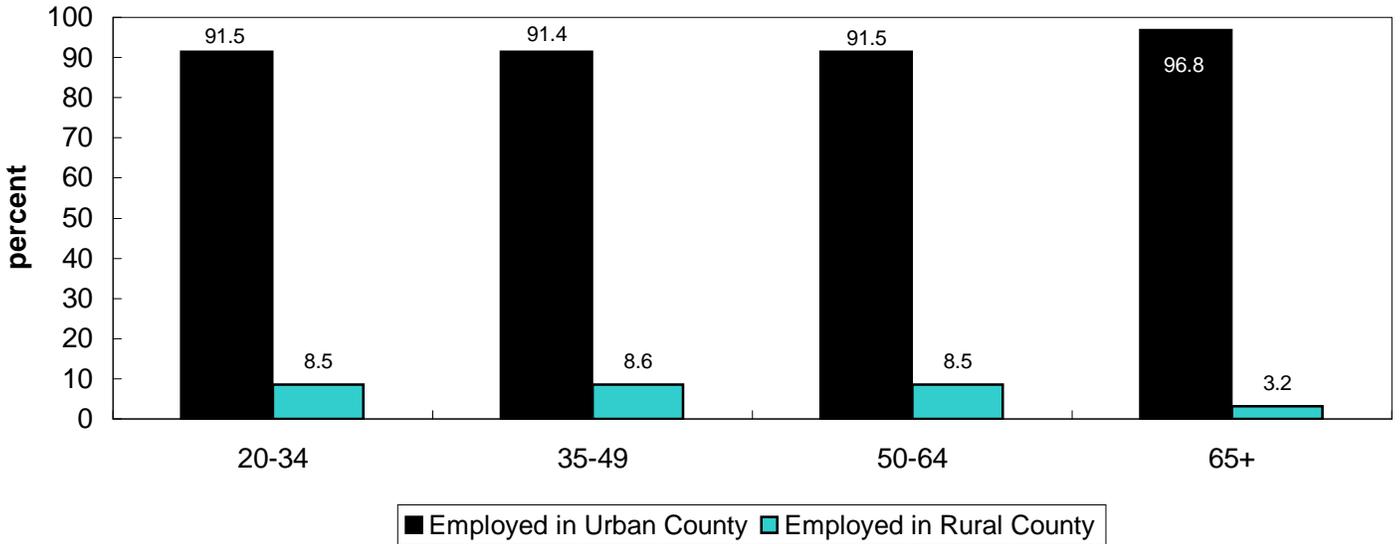
Note: Percentages may not equal 100% due to rounding.

2007 DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EMPLOYED IN URBAN/RURAL COUNTIES

- √ 91.5% of dental hygienists employed in direct patient care in Pennsylvania worked in urban counties and 8.5% worked in rural counties. (Table 12)
- √ There was a higher per capita rate of dental hygienists employed in direct patient care in Pennsylvania in urban counties (44.18 per 100,000 population) compared to rural counties (30.58).
- √ The average age of dental hygienists employed in direct patient care in urban and rural counties was 41.5 and 41.1, respectively. (Table 13)

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
EMPLOYED IN URBAN/RURAL COUNTIES**

**Figure 12: DENTAL HYGIENISTS WORKING
IN URBAN/RURAL COUNTIES BY AGE GROUP**



**Table 12: URBAN / RURAL EMPLOYMENT
(Question 14)**

DENTAL HYGIENISTS EMPLOYED IN URBAN/RURAL COUNTY*	Number	Percent	Dental Hygienists per 100,000 Population^
Urban PA County	4,846	91.5%	44.18
Rural PA County	450	8.5%	30.58
Total	5,296	100.0%	42.57

^ Population data taken from 2006 U.S. Census estimates
* Urban/Rural defined by 2000 U.S. Census
Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
AGE GROUPS BY COUNTY OF EMPLOYMENT

Table 13: AGE AND AVERAGE AGE OF DENTIST HYGIENISTS

(Questions 1 & 14)

	<u>20-34</u>		<u>35-49</u>		<u>50-64</u>		<u>65+</u>		<u>Average Age</u>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Total										
<i>Pennsylvania</i>	5,283	1,484	28.1%	2,576	48.8%	1,161	22.0%	62	1.2%	41.4
<i>Urban Counties</i>	4,834	1,358	28.1%	2,354	48.7%	1,062	22.0%	60	1.2%	41.5
<i>Rural Counties</i>	449	126	28.1%	222	49.4%	99	22.0%	2	0.4%	41.1
<u>County</u>										
Adams*	32	7	21.9%	19	59.4%	5	15.6%	1	3.1%	41.9
Allegheny	586	178	30.4%	261	44.5%	139	23.7%	8	1.4%	41.6
Armstrong*	18	5	27.8%	10	55.6%	3	16.7%	0	-	40.4
Beaver	58	14	24.1%	28	48.3%	15	25.9%	1	1.7%	42.9
Bedford*	20	5	25.0%	11	55.0%	4	20.0%	0	-	40.2
Berks	177	46	26.0%	92	52.0%	37	20.9%	2	1.1%	41.2
Blair	51	14	27.5%	29	56.9%	8	15.7%	0	-	39.3
Bradford*	26	5	19.2%	12	46.2%	9	34.6%	0	-	44.3
Bucks	311	70	22.5%	178	57.2%	59	19.0%	4	1.3%	41.8
Butler	101	48	47.5%	42	41.6%	11	10.9%	0	-	37.3
Cambria	41	16	39.0%	19	46.3%	6	14.6%	0	-	37.5
Cameron	1	0	-	0	-	1	100.0%	0	-	51.0
Carbon*	19	2	10.5%	10	52.6%	7	36.8%	0	-	45.5
Centre	69	21	30.4%	39	56.5%	9	13.0%	0	-	39.6
Chester	229	56	24.5%	108	47.2%	61	26.6%	4	1.7%	42.6
Clarion*	9	5	55.6%	4	44.4%	0	-	0	-	36.1
Clearfield*	28	7	25.0%	14	50.0%	7	25.0%	0	-	42.4
Clinton*	12	2	16.7%	9	75.0%	1	8.3%	0	-	43.2
Columbia	39	15	38.5%	23	59.0%	1	2.6%	0	-	37.6
Crawford*	28	4	14.3%	15	53.6%	9	32.1%	0	-	42.4
Cumberland	163	43	26.4%	80	49.1%	40	24.5%	0	-	42.1
Dauphin	152	48	31.6%	70	46.1%	32	21.1%	2	1.3%	40.6
Delaware	230	66	28.7%	102	44.3%	55	23.9%	7	3.0%	42.5
Elk	9	1	11.1%	6	66.7%	2	22.2%	0	-	43.9
Erie	123	43	35.0%	52	42.3%	27	22.0%	1	0.8%	40.4
Fayette	44	13	29.5%	26	59.1%	5	11.4%	0	-	39.4
Forest*	1	0	-	0	-	1	100.0%	0	-	60.0
Franklin	57	16	28.1%	26	45.6%	15	26.3%	0	-	41.3
Fulton*	4	2	50.0%	0	-	2	50.0%	0	-	38.3
Greene*	13	2	15.4%	9	69.2%	2	15.4%	0	-	42.5
Huntingdon*	16	7	43.8%	5	31.3%	4	25.0%	0	-	39.5
Indiana*	21	12	57.1%	5	23.8%	4	19.0%	0	-	36.4
Jefferson*	11	3	27.3%	6	54.5%	2	18.2%	0	-	39.0
Juniata*	5	1	20.0%	3	60.0%	1	20.0%	0	-	41.0
Lackawanna	111	28	25.2%	66	59.5%	17	15.3%	0	-	40.8
Lancaster	248	70	28.2%	118	47.6%	58	23.4%	2	0.8%	41.7
Lawrence	27	10	37.0%	10	37.0%	7	25.9%	0	-	40.4
Lebanon	44	16	36.4%	17	38.6%	11	25.0%	0	-	40.1
Lehigh	173	43	24.9%	79	45.7%	48	27.7%	3	1.7%	42.6
Luzerne	160	45	28.1%	97	60.6%	18	11.3%	0	-	39.5
Lycoming	54	11	20.4%	32	59.3%	11	20.4%	0	-	42.8
McKean*	8	5	62.5%	2	25.0%	1	12.5%	0	-	34.5
Mercer	37	13	35.1%	18	48.6%	6	16.2%	0	-	40.4
Mifflin*	16	3	18.8%	9	56.3%	4	25.0%	0	-	42.3
Monroe	50	18	36.0%	17	34.0%	15	30.0%	0	-	40.7
Montgomery	476	97	20.4%	244	51.3%	122	25.6%	13	2.7%	43.5

* Rural County - based on the 2000 U.S. Census definition

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
AGE GROUPS BY COUNTY OF EMPLOYMENT**

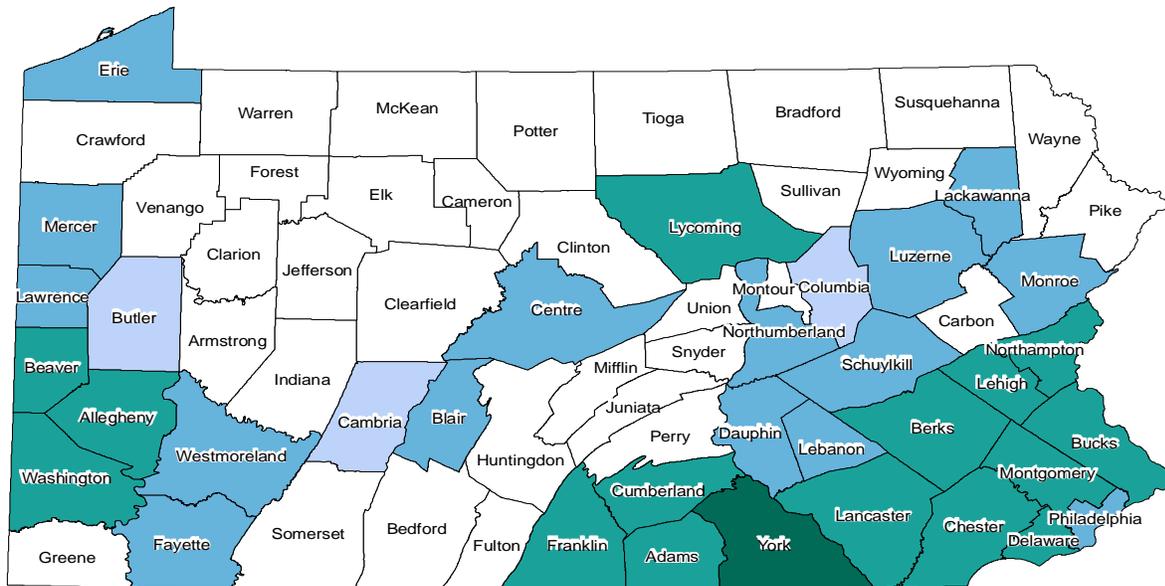
**Table 13: AGE AND AVERAGE AGE OF DENTAL HYGIENISTS (cont.)
(Questions 1 & 14)**

	<u>20-34</u>		<u>35-49</u>		<u>50-64</u>		<u>65+</u>		<u>Average Age</u>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Total										
Montour*	9	44.4%	3	33.3%	2	22.2%	0	-	37.3	
Northampton	163	19.6%	78	47.9%	53	32.5%	0	-	43.7	
Northumberland	41	12	29.3%	24	58.5%	5	12.2%	0	-	39.2
Perry*	6	1	16.7%	4	66.7%	1	16.7%	0	-	41.2
Philadelphia	299	119	39.8%	119	39.8%	54	18.1%	7	2.3%	39.2
Pike*	17	3	17.6%	10	58.8%	3	17.6%	1	5.9%	44.4
Potter*	6	1	16.7%	2	33.3%	3	50.0%	0	-	48.5
Schuylkill	47	17	36.2%	24	51.1%	6	12.8%	0	-	39.9
Snyder*	18	6	33.3%	8	44.4%	4	22.2%	0	-	40.6
Somerset*	22	6	27.3%	12	54.5%	4	18.2%	0	-	41.0
Sullivan*	1	0	-	0	-	1	100.0%	0	-	-
Susquehanna*	8	2	25.0%	6	75.0%	0	-	0	-	39.3
Tioga*	10	4	40.0%	4	40.0%	2	20.0%	0	-	42.6
Union	20	4	20.0%	12	60.0%	4	20.0%	0	-	40.7
Venango*	13	3	23.1%	7	53.8%	3	23.1%	0	-	41.4
Warren*	17	5	29.4%	8	47.1%	4	23.5%	0	-	38.2
Washington	76	21	27.6%	34	44.7%	21	27.6%	0	-	41.8
Wayne*	21	7	33.3%	10	47.6%	4	19.0%	0	-	40.3
Westmoreland	172	57	33.1%	89	51.7%	25	14.5%	1	0.6%	39.8
Wyoming*	14	7	50.0%	5	35.7%	2	14.3%	0	-	36.5
York	195	37	19.0%	95	48.7%	58	29.7%	5	2.6%	44.4

* Rural County - based on the 2000 U.S. Census definition

Note: Percentages based on less than 10 respondents or on a total response less than 30 are considered statistically unreliable.

**Figure 13: AVERAGE AGE OF DENTAL HYGIENISTS
EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA - 2007**



Average Age (Years)

35.0 - 37.9
 38.0 - 40.9
 41.0 - 43.9
 44.0 and greater
 Insufficient Data*

* Less than 30 total responses.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
CAREER AND JOB SATISFACTION

Career Satisfaction

- √ 88.5% of dental hygienists employed in direct patient care in Pennsylvania indicated that they were either “very satisfied” or “somewhat satisfied” with their career. (Table 14)
- √ 11.4% of dental hygienists employed in direct patient care in Pennsylvania indicated that they were either “very dissatisfied” or “dissatisfied” with their career.

Job Satisfaction

- √ 87.4% of dental hygienists employed in direct patient care in Pennsylvania indicated that they were either “very dissatisfied” or “dissatisfied” with their job.
- √ 12.6% of dental hygienists employed in direct patient care in Pennsylvania indicated that they were either “very dissatisfied” or “dissatisfied” with their job.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
 DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
CAREER AND JOB SATISFACTION

Figure 14A: CAREER SATISFACTION

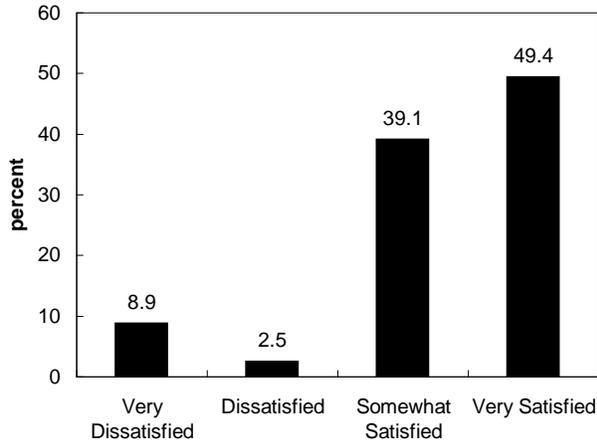


Figure 14B: JOB SATISFACTION

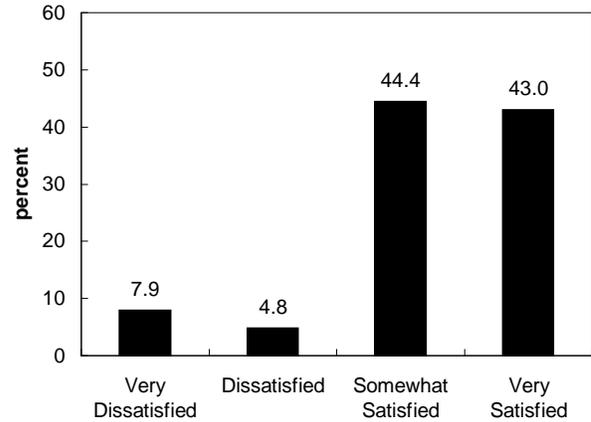


Table 14: CAREER AND JOB SATISFACTION
(Questions 9, 15, & 16)

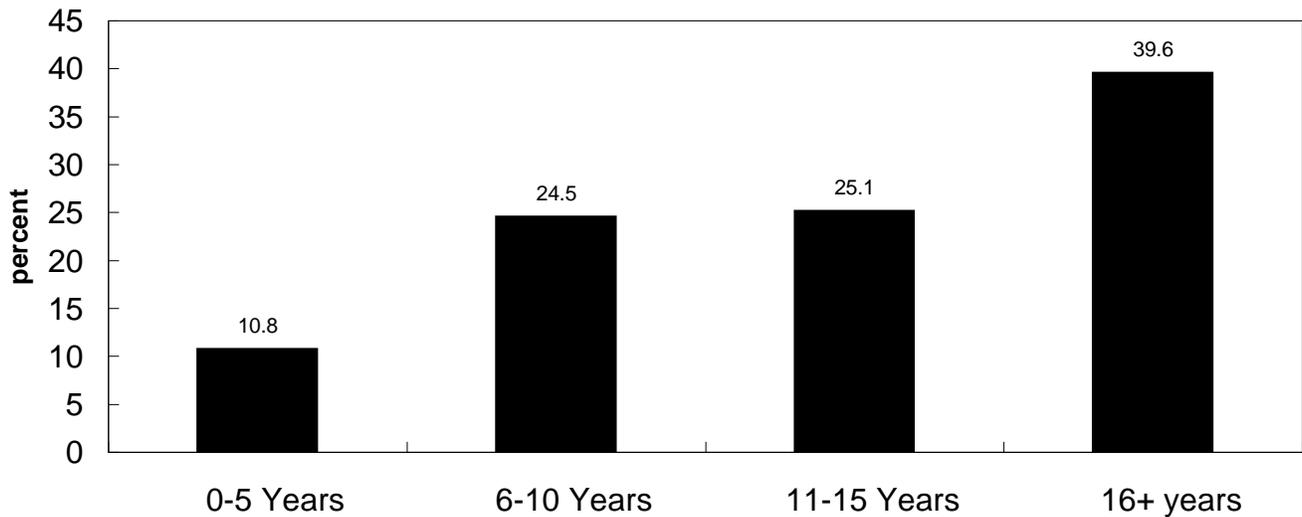
CAREER SATISFACTION									
	<u>Total</u>	<u>Very Dissatisfied</u>		<u>Dissatisfied</u>		<u>Somewhat Satisfied</u>		<u>Very Satisfied</u>	
	<u>Number</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
	5,260	466	8.9%	134	2.5%	2,059	39.1%	2,601	49.4%
CAREER SATISFACTION BY EDUCATIONAL LEVEL ATTAINED									
Associate	4,055	378	9.3%	87	2.1%	1,526	37.6%	2,064	50.9%
Bachelor	1,101	80	7.3%	40	3.6%	484	44.0%	497	45.1%
Master	81	5	6.2%	5	6.2%	38	46.9%	33	40.7%
Doctorate	8	1	12.5%	1	12.5%	4	50.0%	2	25.0%
JOB SATISFACTION									
	<u>Total</u>	<u>Very Dissatisfied</u>		<u>Dissatisfied</u>		<u>Somewhat Satisfied</u>		<u>Very Satisfied</u>	
	<u>Number</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
	5,256	414	7.9%	250	4.8%	2,333	44.4%	2,259	43.0%
JOB SATISFACTION BY EDUCATIONAL LEVEL ATTAINED									
Associate	4,051	334	8.2%	184	4.5%	1,782	44.0%	1,751	43.2%
Bachelor	1,100	72	6.5%	58	5.3%	505	45.9%	465	42.3%
Master	82	6	7.3%	5	6.1%	36	43.9%	35	42.7%
Doctorate	8	0	-	1	12.5%	4	50.0%	3	37.5%
Note: Percentages may not equal 100% due to rounding.									

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
YEARS PLAN TO REMAIN IN DENTAL HYGIENE

- √ In the survey, 10.8% of respondents employed in direct patient care in Pennsylvania indicated that they would be likely to leave dental hygiene within the next five years. (Table 15, top portion)
- √ 24.5% of respondents employed in direct patient care in Pennsylvania indicated they would be likely to leave within 6-10 years.
- √ 17.4% of respondents employed in direct patient care in Pennsylvania under the age of 35 indicated that they are planning to leave dental hygiene in the next 10 years. (Table 15, bottom portion)

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
YEARS PLAN TO REMAIN IN DENTAL HYGIENE**

Figure 15: YEARS PLAN TO REMAIN IN DENTAL HYGIENE



**Table 15: YEARS PLAN TO REMAIN IN DENTAL HYGIENE BY AGE
(Questions 1 & 17)**

	Total	0-5 Years		6-10 Years		11-15 Years		16+ years	
	Number	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	5,273	567	10.8%	1,294	24.5%	1,325	25.1%	2,087	39.6%
AGE GROUP									
20-34	1,481	82	5.5%	175	11.8%	227	15.3%	997	67.3%
35-49	2,564	153	6.0%	562	21.9%	834	32.5%	1,015	39.6%
50-64	1,153	273	23.7%	545	47.3%	263	22.8%	72	6.2%
65+	62	53	85.5%	7	11.3%	1	1.6%	1	1.6%

Note: Percentages may not equal 100% due to rounding.

2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
YEARS PLAN TO REMAIN
IN DENTAL HYGIENE BY CAREER / JOB SATISFACTION

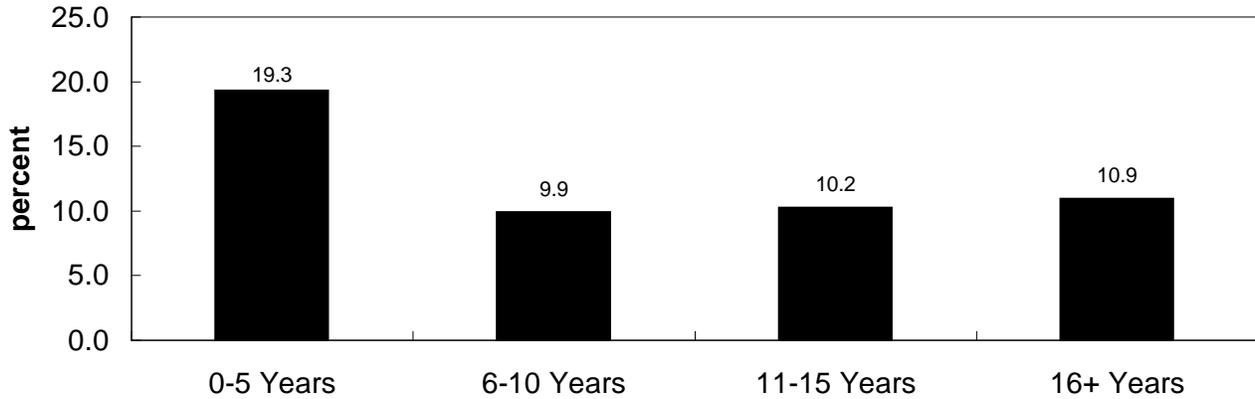
- √ At least 80% of dental hygienists were satisfied with their career or job regardless of the number of years they were planning to stay in dental hygiene. (Table 16)

- √ 19.3% of dental hygienists employed in direct patient care in Pennsylvania who indicated that they planned to leave dental hygiene within five years were dissatisfied with their careers. (Figure 16)

- √ 10.9% of dental hygienists employed in direct patient care in Pennsylvania who indicated that they planned to remain in dental hygiene for 16 or more years were dissatisfied with their careers.

**2007 PENNSYLVANIA DENTAL HYGIENIST SURVEY
DENTAL HYGIENISTS EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA
YEARS PLAN TO REMAIN IN DENTAL HYGIENE BY CAREER/JOB SATISFACTION**

Figure 16: PERCENT OF DENTAL HYGIENISTS DISSATISFIED* WITH CAREER BY YEARS PLAN TO REMAIN IN DENTAL HYGIENE



* Includes dissatisfied and very dissatisfied

**Table 16: CAREER AND JOB SATISFACTION
BY YEARS PLAN TO REMAIN IN DENTAL HYGIENE
(Questions 15, 16, & 17)**

	0-5 Years		6-10 Years		11-15 Years		16+ years	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
CAREER SATISFACTION								
Very Dissatisfied	45	8.0%	95	7.4%	114	8.6%	211	10.2%
Dissatisfied	64	11.3%	32	2.5%	21	1.6%	16	0.8%
Somewhat Satisfied	288	51.0%	667	51.9%	518	39.3%	583	28.1%
Very Satisfied	168	29.7%	490	38.2%	666	50.5%	1,267	61.0%
Total	565	100%	1,284	100%	1,319	100%	2,077	100%
JOB SATISFACTION								
Very Dissatisfied	47	8.3%	81	6.3%	93	7.1%	191	9.2%
Dissatisfied	65	11.5%	70	5.5%	47	3.6%	67	3.2%
Somewhat Satisfied	292	51.7%	662	51.8%	620	47.1%	753	36.2%
Very Satisfied	161	28.5%	466	36.4%	557	42.3%	1,067	51.3%
Total	565	100%	1,279	100%	1,317	100%	2,078	100%

Note: Percentages may not equal 100% due to rounding.

APPENDICES

1. Data Collection Forms - Pennsylvania Survey of Dentists, 2007 and Pennsylvania Survey of Dental Hygienists, 2007
2. Federally Designated Dentist Shortage Areas
3. Comparison of Responses of the Pennsylvania Surveys of Dentists and Dental Hygienists
4. Analysis of Non-Renewing Dentists and Dental Hygienists

In order to gain a better understanding of the dentist workforce, the Department of Health, with the support of the Department of State, asks that you complete this brief survey.

****If you complete the online license renewal survey when completing the license renewal application there is NO NEED TO COMPLETE AND SUBMIT this paper survey.****

Individual information from this survey is confidential and will not be shared or distributed. Your participation assures that policymakers and legislators have accurate and timely information. Information gained from the survey is used to improve knowledge of the dentist workforce and guide policy development. To view dentist workforce reports, visit www.health.state.pa.us and under Health Planning, click on State Health Improvement Plan and SHIP Health Care Workforce Reports. Thank you for your cooperation.

1. **Year of Birth** 2. **Sex** Male Female
3. **Hispanic Origin** Yes No
4. **Race (check one)** White Black American Indian/Alaska Native
 Asian Native Hawaiian/ Other Pacific Islander Other
5. **State of Residence (Enter two letter postal code)**
County of Residence (PA only – see codes on back of form)
Zip Code of Residence
6. **In what year did you graduated from dental school?**
7. **In which state did you graduate from dental school? (Enter two letter postal code)**
8. **In what state were you first licensed as a dentist? (Enter two letter postal code)**
9. **Have you taken an accredited general dentistry education program of at least one-year duration?**
 Yes No
10. **Specialty Board Certification (Check all that apply)**
- | | |
|--|---|
| <input type="checkbox"/> 01=American Board of Dental Public Health | <input type="checkbox"/> 02=American Board of Endodontics |
| <input type="checkbox"/> 03=American Board of Oral and Maxillofacial Pathology | <input type="checkbox"/> 04=American Board of Maxillofacial Radiology |
| <input type="checkbox"/> 05=American Board of Oral and Maxillofacial Surgery | <input type="checkbox"/> 06=The American Board of Orthodontics |
| <input type="checkbox"/> 07=American Board of Pediatric Dentistry | <input type="checkbox"/> 08=American Board of Periodontology |
| <input type="checkbox"/> 09=American Board of Prosthodontics | <input type="checkbox"/> 00=None |
11. **Primary Employment (Check the one which best describes your situation)**
- | | | | |
|---|--|--|------------------------------------|
| <input type="checkbox"/> Direct Patient Care | <input type="checkbox"/> Dental/Medical Research | <input type="checkbox"/> Retired | <input type="checkbox"/> Resident |
| <input type="checkbox"/> Administrative | <input type="checkbox"/> Other non-patient care | <input type="checkbox"/> Currently not in practice | <input type="checkbox"/> Volunteer |
| <input type="checkbox"/> Dental/medical Education | <input type="checkbox"/> Research Fellow | <input type="checkbox"/> Clinical Fellow | <input type="checkbox"/> Other |

Please answer questions 12-20 only if practicing direct patient care

12. **Please indicate in what category the majority of your practice time is spent (Check one)**
- | | | |
|---|--|--|
| <input type="checkbox"/> General Dentistry | <input type="checkbox"/> Pediatric Dentistry | <input type="checkbox"/> Geriatric Dentistry |
| <input type="checkbox"/> Esthetic Dentistry | <input type="checkbox"/> Forensic Dentistry | <input type="checkbox"/> Dental Implants |
| <input type="checkbox"/> Orthodontics | <input type="checkbox"/> Anesthesiology | <input type="checkbox"/> Facial/Pain Mgmt and/or TMJ treatment |
| <input type="checkbox"/> Oral Surgery | <input type="checkbox"/> Periodontics | <input type="checkbox"/> Endodontics |
| <input type="checkbox"/> Prosthodontics | <input type="checkbox"/> Maxillofacial Radiology | <input type="checkbox"/> N/A |

PLEASE COMPLETE THE REVERSE SIDE OF FORM

13. In your practice, are you able to offer general dentistry with the aid of general anesthesia or deep sedation when needed on patients with severe developmental or physical handicaps?

No Yes If yes, please indicate primary location: Hospital Ambulatory surgical setting Office N/A

14. Practice or employment sector (The sector in which you spend the majority of scheduled time. Primary job only – check one)

- 01=Hospital 02=Nursing Home 03=Private Practice Solo
 04=Private Practice Partnership 05=Employee of another dentist 06=Professional School
 07=Univ./College Health Ctr 08=Public/Private Elementary/Secondary school 09=Correctional Facility
 10=Consulting Firm 11=Non-profit Community Health Center 12=Government Administration
 13=Gov't Inpt/Outpt Facility 14=Managed Care/Insurance Administration 15=Military (Federal or State)
 16=Temp Agency/Personnel Pool 17=Managed Care/Insurance Clinical Staff 18=Other
 19=N/A

15. Practice Locations

Practice Site Locations (By descending order of office time spent)	Location of site where you practice or are employed			List the regularly scheduled hours you practice at each site per week	Are you considered full time or part time at this site?		For each practice site, indicate whether you participate (accept patients) in the Medical Assistance, CHIP, and Adult Basic Programs						Employment Sector (enter using codes in item 14) * if retired, enter 19	
	State-Enter two letter postal code	County – PA only – see codes below	Zip Code of site where practice is located		Regularly Scheduled Hours	FT	PT	Medical Assistance?		CHIP		Adult Basic		
								Yes	No	Yes	No	Yes		No
Primary	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Second	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
Third	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	

16. Please indicate the ability of your practice to accept new patients. (Check one)

Yes, practice is able to accept new patients No, practice is unable to accept new patient N/A

17. Please indicate which of the following practice auxiliaries are employed in your office. (Check all that apply)

None Dental Assistant Dental Hygienist Expanded Function Dental Assistant N/A

18. Please indicate if you have any vacancies in the following positions due to an inability to find qualified staff. (Check all that apply)

None Dental Assistant Dental Hygienist Expanded Function Dental Assistant N/A

19. How long do you anticipate you will continue practicing dentistry?

0 – 5 years 6 – 10 years 11 – 15 years 16+ years Currently not in practice

20. How long do you anticipate you will continue practicing dentistry in Pennsylvania?

0 – 5 years 6 – 10 years 11 – 15 years 16+ years Not currently practicing in Pennsylvania

PENNSYLVANIA COUNTY CODES

- | | | | | |
|--------------|---------------|---------------|-------------------|-----------------|
| 01=Adams | 15=Chester | 29=Fulton | 43=Mercer | 57=Sullivan |
| 02=Allegheny | 16=Clarion | 30=Greene | 44=Mifflin | 58=Susquehanna |
| 03=Armstrong | 17=Clearfield | 31=Huntingdon | 45=Monroe | 59=Tioga |
| 04=Beaver | 18=Clinton | 32=Indiana | 46=Montgomery | 60=Union |
| 05=Bedford | 19=Columbia | 33=Jefferson | 47=Montour | 61=Venango |
| 06=Berks | 20=Crawford | 34=Juniata | 48=Northampton | 62=Warren |
| 07=Blair | 21=Cumberland | 35=Lackawanna | 49=Northumberland | 63=Washington |
| 08=Bradford | 22=Dauphin | 36=Lancaster | 50=Perry | 64=Wayne |
| 09=Bucks | 23=Delaware | 37=Lawrence | 51=Philadelphia | 65=Westmoreland |
| 10=Butler | 24=Elk | 38=Lebanon | 52=Pike | 66=Wyoming |
| 11=Cambria | 25=Erie | 39=Lehigh | 53=Potter | 67=York |
| 12=Cameron | 26=Fayette | 40=Luzerne | 54=Schuylkill | |
| 13=Carbon | 27=Forest | 41=Lycoming | 55=Snyder | |
| 14=Centre | 28=Franklin | 42=McKean | 56=Somerset | |



Commonwealth of Pennsylvania License Number _____
Department of Health
2007 Survey of Dental Hygienists

In order to gain a better understanding of the dental hygienist workforce, the Department of Health, with the support of the Department of State, asks that you complete this brief survey.

If you complete the online license renewal survey when completing the license renewal application there is NO NEED TO COMPLETE AND SUBMIT this paper survey.

Individual information from this survey is confidential and will not be shared or distributed. Your participation assures that policymakers and legislators have accurate and timely information. Information gained from the survey is used to improve knowledge of the dental hygienist workforce and guide policy development. To view dental hygienist workforce reports, visit www.health.state.pa.us and under Health Planning, click on State Health Improvement Plan and SHIP Health Care Workforce Reports. Thank you for your cooperation.

DEMOGRAPHIC INFORMATION: This information will be used to develop aggregate baseline information about the demographic makeup of the dentist workforce in Pennsylvania

- 1. Year of Birth [][][][] 2. Sex [] Male [] Female
3. Hispanic Origin [] Yes [] No
4. Race (check one) [] White [] Black [] American Indian/Alaska Native
[] Asian [] Native Hawaiian/ Other Pacific Islander [] Other
5. State of Residence (enter two letter postal code) [][]
County of Residence (PA only - see codes on back of form) [][]
Zip Code of Residence [][][][][]
6. In what year did you graduate from dental hygiene school? [][][][]
7. In which state did you graduate from dental hygiene school? (Two letter postal code) [][]
8. Dental Hygiene Education/Training (check one)
[] Associate Degree Program [] Bachelors Degree Program
9. Highest Educational Level Attained (Check one):
[] Associate [] Bachelor [] Master [] Doctorate
10. Certifications (Check all that apply):
[] Expanded Function Dental Assistant Permit [] School teaching certificate-PA school hygienist position
[] None
11. Employment Status (Check one)
[] Employed in dental hygiene [] Employed in other than dental hygiene
[] Unemployed, seeking dental hygiene employment [] Unemployed, not seeking dental hygiene employment
[] Retired [] Student
Please answer items 12-17 only if currently employed in dental hygiene. If checked "retired" for question 11, check N/A for questions 12,13, 15 & 16
12. Type of position (Primary job only - check one)
[] Direct patient care [] Administration/Management [] Educator (includes in-service)
[] Researcher/Consultant [] Other [] N/A

PLEASE COMPLETE THE REVERSE SIDE OF FORM

13. Employment sector (Sector which best describes job setting-primary job only –check one)

- | | | |
|--|--|--|
| <input type="checkbox"/> 01=Hospital | <input type="checkbox"/> 02=Nursing Home | <input type="checkbox"/> 03=Private Practice Partnership |
| <input type="checkbox"/> 04=Private Practice, Solo Dentist | <input type="checkbox"/> 05=Military(Federal or State) | <input type="checkbox"/> 06=Professional School |
| <input type="checkbox"/> 07=Univ./College Health Ctr | <input type="checkbox"/> 08=Public/Private Elementary/Secondary school | <input type="checkbox"/> 09=Correctional Facility |
| <input type="checkbox"/> 10=Consulting Firm | <input type="checkbox"/> 11=Non-profit Community Health Center | <input type="checkbox"/> 12=Government Administration |
| <input type="checkbox"/> 13=Gov't Inpt/Outpt Facility | <input type="checkbox"/> 14=Managed Care/Insurance Administration | <input type="checkbox"/> 15=Temp Agency/Personnel Pool |
| <input type="checkbox"/> 16=Other Business or industry | <input type="checkbox"/> 17=Managed Care/Insurance Clinical Staff | <input type="checkbox"/> 18=N/A |

14. Current Employer(s)

	Location of site where employed			List the regularly scheduled hours worked in the past TWO WEEKS .				Employment Sector (enter using codes in item 13) * if retired, enter 19
	State-Enter two letter postal code	County – PA only – see codes below	Zip Code of site where employed	Indicate whether your employer considers you a full-time or part-time employee.		Direct Patient Care		
				Regularly Scheduled Hours	FT PT	Yes	No	
Primary Job	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Second Job	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Third Job	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

15. How satisfied are you with dental hygiene as a career?

- Very dissatisfied Dissatisfied Satisfied Very satisfied N/A

16. How satisfied are you with your current primary job?

- Very dissatisfied Dissatisfied Satisfied Very satisfied N/A

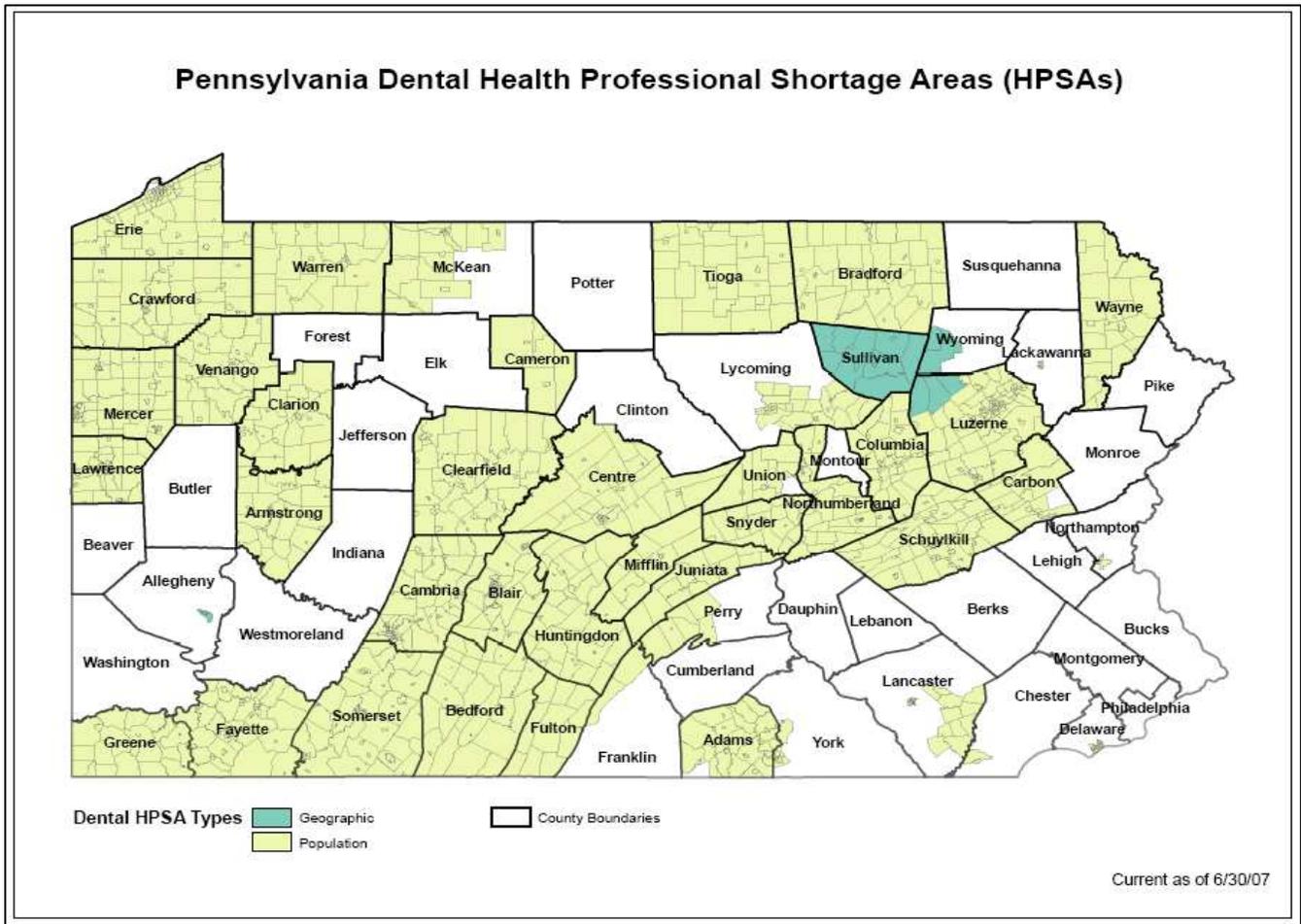
17. How much longer do you plan to remain in dental hygiene?

- 0 – 5 years
 6 – 10 years
 11 – 15 years
 16+ years
 Retired/Not currently in practice

PENNSYLVANIA COUNTY CODES

- | | | | | |
|--------------|---------------|---------------|-------------------|-----------------|
| 01=Adams | 15=Chester | 29=Fulton | 43=Mercer | 57=Sullivan |
| 02=Allegheny | 16=Clarion | 30=Greene | 44=Mifflin | 58=Susquehanna |
| 03=Armstrong | 17=Clearfield | 31=Huntingdon | 45=Monroe | 59=Tioga |
| 04=Beaver | 18=Clinton | 32=Indiana | 46=Montgomery | 60=Union |
| 05=Bedford | 19=Columbia | 33=Jefferson | 47=Montour | 61=Venango |
| 06=Berks | 20=Crawford | 34=Juniata | 48=Northampton | 62=Warren |
| 07=Blair | 21=Cumberland | 35=Lackawanna | 49=Northumberland | 63=Washington |
| 08=Bradford | 22=Dauphin | 36=Lancaster | 50=Perry | 64=Wayne |
| 09=Bucks | 23=Delaware | 37=Lawrence | 51=Philadelphia | 65=Westmoreland |
| 10=Butler | 24=Elk | 38=Lebanon | 52=Pike | 66=Wyoming |
| 11=Cambria | 25=Erie | 39=Lehigh | 53=Potter | 67=York |
| 12=Cameron | 26=Fayette | 40=Luzerne | 54=Schuylkill | |
| 13=Carbon | 27=Forest | 41=Lycoming | 55=Snyder | |
| 14=Centre | 28=Franklin | 42=McKean | 56=Somerset | |

Appendix 2 Federally Designated Dentist Shortage Areas



Health Professional Shortage Areas (HPSAs) are defined service areas that demonstrate a critical Shortage of dentists.

Geographic HPSAs evaluate the shortage using the total population of the area and the total providers in the area.

Population HPSAs evaluate the shortage using an identified population group, such as persons below 200% of poverty, and the providers who are available to serve this population.

Appendix 3
COMPARISON OF RESPONSES OF THE PENNSYLVANIA SURVEY OF DENTISTS
ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA

Measure	Dentist 2003	Dentist 2005	Dentist 2007
Gender			
Female	14.1%	16.6%	17.5%
Male	85.9%	83.4%	82.5%
Race			
White	93.3%	90.3%	89.1%
Black	1.5%	2.5%	2.4%
Asian	3.8%	4.9%	5.8%
Native Hawaiian / Pacific Islander	0.2%	0.2%	0.2%
American Indian / Alaska Native	0.0%	0.0%	0.0%
Other	1.2%	2.1%	2.4%
Ethnicity			
Hispanic	1.0%	1.1%	1.2%
Average Age	50.5	50.3	51.3
Age			
20-34	6.9%	8.8%	8.3%
35-49	40.2%	38.1%	34.4%
50-64	42.3%	43.1%	45.7%
65+	10.6%	10.1%	11.6%
Urban/Rural County of Practice			
Urban	84.1%	84.7%	92.3%*
Rural	15.9%	15.3%	7.7%
Full-Time / Part-Time			
Full-Time	83.9%	84.6%	82.7%
Part-Time	16.1%	15.4%	17.3%
Primary Employment[^]			
Direct Patient Care	91.1%	90.0%	89.5%
Dental/Medical Research	0.3%	0.3%	0.3%
Retired	2.7%	1.7%	1.4%
Resident	0.9%	2.2%	2.6%
Administrative	0.6%	0.6%	0.6%
Other non-patient care	0.2%	0.1%	0.1%
Currently not in practice	1.1%	1.3%	1.0%
Volunteer	0.1%	0.1%	0.1%
Dental/Medical Education	2.3%	2.7%	3.2%
Research Fellow	0.0%	0.0%	0.0%
Other	0.5%	0.9%	1.1%
Majority of Practice Time Spent^{**}			
General Dentistry	79.7%	78.3%	79.2%
Pediatric Dentistry	2.3%	2.9%	2.5%
Geriatric Dentistry	0.8%	0.3%	0.3%
Esthetic Dentistry	0.8%	0.7%	0.6%
Forensic Dentistry	0.1%	0.0%	0.1%
Dental Implants	0.3%	0.2%	0.2%
Orthodontics	4.7%	5.3%	6.2%
Anesthesiology	0.2%	0.3%	0.2%
Facial/Pain Mgmt and/or TMJ treatment	0.3%	0.1%	0.0%
Oral Surgery	4.0%	4.4%	3.9%
Periodontics	2.2%	2.7%	2.4%
Endodontics	2.2%	2.8%	2.7%
Prosthodontics	2.1%	2.0%	1.8%
Maxillofacial Radiology	0.2%	0.0%	0.0%
[^] All Respondents			
[*] The definition of urban/rural has changed from the April 2006 report. It is now defined by the 2000 U.S. Census			
^{**} Option of N/A (not applicable) included on previous 2005 survey forms			

**COMPARISON OF RESPONSES OF THE PENNSYLVANIA SURVEY OF DENTISTS
ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA (cont.)**

Measure	Dentist 2003	Dentist 2005	Dentist 2007
Employment Sector**			
Hospital	0.5%	0.9%	0.7%
Nursing Home	0.3%	0.2%	0.2%
Private Practice Solo	60.4%	65.2%	61.0%
Private Practice Partnership	30.2%	19.9%	22.6%
Employee of Another Dentist	5.4%	10.2%	10.8%
Professional School	0.1%	0.1%	0.2%
University/College Health Center	0.2%	0.5%	0.3%
Public/Private Elementary/Secondary School	0.0%	0.0%	0.1%
Correctional Facility	0.8%	0.7%	0.8%
Consulting Firm	0.0%	0.0%	0.0%
Non-profit Community Health Center	1.1%	1.3%	1.5%
Government Administration	0.0%	0.0%	0.0%
Government Inpatient/Outpatient Facility	0.4%	0.5%	0.2%
Managed Care/Insurance Administration	0.0%	0.0%	0.0%
Military (Federal or State)	0.1%	0.1%	0.1%
Temp Agency/Personnel Pool	0.0%	0.1%	0.1%
Managed Care/Insurance Clinical Staff	0.1%	0.1%	0.0%
Other Business or Industry	0.2%	0.3%	1.3%
Ability to Accept New Patients**			
Yes	94.6%	96.1%	97.8%
No	5.4%	3.4%	0.0%
Practice Auxiliaries Employed in Office**			
Dental Assistant	85.9%	86.3%	88.7%
Dental Hygienist	64.5%	64.3%	20.6%
Expanded Function Dental Assistant	21.0%	20.7%	6.0%
Vacancies Due to Inability to Find Qualified Staff**			
Dental Assistant	13.0%	10.5%	9.1%
Dental Hygienist	11.3%	9.3%	5.6%
Expanded Function Dental Assistant	5.9%	4.8%	2.1%
Anticipating Practicing Dentistry			
0-5 Years	13.3%	13.7%	14.2%
6-10 Years	21.4%	21.2%	20.7%
11-15 Years	25.8%	23.3%	22.6%
16+ Years	39.5%	41.8%	42.5%
Anticipating Practicing Dentistry in Pennsylvania			
0-5 Years	15.5%	16.7%	17.0%
6-10 Years	22.2%	21.6%	22.9%
11-15 Years	25.0%	22.7%	23.7%
16+ Years	37.3%	39.0%	36.5%
** Option of N/A (not applicable) included on previous survey forms			

**COMPARISON OF RESPONSES OF THE PENNSYLVANIA SURVEY OF DENTISTS
ENGAGED IN DIRECT PATIENT CARE IN PENNSYLVANIA (cont.)**

MEDICAL ASSISTANCE (MA) PROGRAM									
PRINCIPAL ACTIVITY	2003*			2005			2007		
	Total Responses	Participate in MA Program	Percent	Total Responses	Participate in MA Program	Percent	Total Responses	Participate in MA Program	Percent
Total (Primary Practice)	4,768	831	17.4%	5,024	874	17.4%	4,450	863	19.4%
General Dentistry	3,724	646	17.3%	3,894	659	16.9%	3,379	679	20.1%
Orthodontics	218	22	10.1%	265	30	11.3%	345	30	8.7%
Oral Surgery	180	58	32.2%	222	66	29.7%	169	63	37.3%
Pediatric Dentistry	107	44	41.1%	147	71	48.3%	104	55	52.9%
Endodontics	101	5	5.0%	139	9	6.5%	123	2	1.6%
Periodontics	105	6	5.7%	131	5	3.8%	134	6	4.5%
Prosthodontics	100	7	7.0%	101	8	7.9%	97	5	5.2%
Esthetic Dentistry	37	4	10.8%	36	0	0.0%	25	0	0.0%
Anesthesiology	12	4	33.3%	16	10	62.5%	8	5	62.5%
Geriatric Dentistry	36	9	25.0%	15	7	46.7%	13	8	61.5%
Dental Implants	13	5	38.5%	8	1	12.5%	10	1	10.0%
Facial/Pain Management and/or TMJ Treatment	15	1	6.7%	6	1	16.7%	3	2	66.7%
Maxillofacial Radiology	9	1	11.1%	0	0	-	0	0	-
Forensic Dentistry	5	0	-	0	0	-	3	0	0.0%

Children's Health Insurance Program (CHIP)									
PRINCIPAL ACTIVITY	2003*			2005			2007		
	Total Responses	Participate in CHIP	Percent	Total Responses	Participate in CHIP	Percent	Total Responses	Participate in CHIP	Percent
Total (Primary Practice)	4,696	1,972	42.0%	4,960	2,020	40.7%	4,988	1,917	38.4%
General Dentistry	3,674	1,690	46.0%	3,859	1,703	44.1%	3,922	1,683	42.9%
Orthodontics	210	8	3.8%	252	12	4.8%	322	7	2.2%
Oral Surgery	173	101	58.4%	220	128	58.2%	174	101	58.0%
Pediatric Dentistry	109	67	61.5%	142	86	60.6%	98	53	54.1%
Endodontics	100	27	27.0%	136	38	27.9%	148	42	28.4%
Periodontics	104	6	5.8%	130	5	3.8%	129	2	1.6%
Prosthodontics	95	7	7.4%	100	10	10.0%	99	5	5.1%
Esthetic Dentistry	37	12	32.4%	37	7	18.9%	32	7	21.9%
Anesthesiology	12	8	66.7%	15	9	60.0%	5	2	40.0%
Dental Implants	12	6	50.0%	8	2	25.0%	9	0	0.0%
Facial/Pain Management and/or TMJ Treatment	15	1	6.7%	5	0	-	2	0	0.0%
Maxillofacial Radiology	9	1	11.1%	0	0	-	0	0	-
Forensic Dentistry	5	0	-	0	0	-	4	2	50.0%

* In the 2003 report, the differences in the total (primary practice) and the sum of the individual principal activities are due to missing responses in Question 10: Please indicate what category the majority of your practice time was spent

Note: CHIP does not generally cover orthodontics

Primary Practice Location									
	2003			2005			2007		
	Total	Participate	Percent	Total	Participate	Percent	Total	Participate	Percent
MA	4,768	753	15.8%	5,024	874	17.4%	4,450	863	19.4%
CHIP	4,696	1,931	41.1%	4,960	2,020	40.7%	4,988	1,917	38.4%

Secondary Practice Location									
	2003			2005			2007		
	Total	Participate	Percent	Total	Participate	Percent	Total	Participate	Percent
MA	763	187	24.5%	772	211	27.3%	880	224	25.5%
CHIP	745	296	39.7%	761	287	37.7%	860	256	29.8%

Tertiary Practice Location									
	2003			2005			2007		
	Total	Participate	Percent	Total	Participate	Percent	Total	Participate	Percent
MA	134	43	32.1%	150	43	28.7%	162	36	22.2%
CHIP	134	49	36.6%	152	52	34.2%	151	31	20.5%

Note: CHIP members are not necessarily identified.

**COMPARISON OF RESPONSES OF THE PENNSYLVANIA SURVEY OF DENTAL HYGIENISTS
EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA**

Measure	Hygienist 2003	Hygienist 2005	Hygienist 2007
Gender			
Female	99.3%	99.2%	99.1%
Male	0.7%	0.8%	0.9%
Race			
White	98.2%	97.3%	97.4%
Black	0.8%	1.3%	1.2%
Asian	0.4%	0.4%	0.6%
Native Hawaiian / Pacific Islander	0.1%	0.1%	0.1%
American Indian / Alaska Native	0.0%	0.1%	0.2%
Other	0.4%	0.7%	0.6%
Ethnicity			
Hispanic	0.7%	0.9%	1.0%
Average Age	39.6	40.8	41.4
Age			
20-34	32.5%	28.7%	28.1%
35-49	52.3%	52.1%	48.8%
50-64	14.4%	18.0%	22.0%
65+	0.9%	1.2%	1.2%
Urban/Rural County of Practice			
Urban	83.2%	83.3%	91.5%*
Rural	16.8%	16.7%	8.5%
Full-Time / Part-Time			
Full-Time	50.2%	53.4%	54.3%
Part-Time	49.8%	46.6%	45.7%
Dental Hygiene Education/Training			
Associate Degree Program	85.5%	87.4%	86.2%
Bachelors Degree Program	14.5%	12.6%	13.8%
Highest Educational Level Attained			
Associate	76.5%	77.4%	77.3%
Bachelor	21.7%	21.2%	20.9%
Master	1.7%	1.3%	1.6%
Doctorate	0.1%	0.1%	0.2%
Certification			
Expanded Function Dental Assistant Permit	7.1%	5.7%	4.7%
School Teaching Certificate PA school hygienist position	4.6%	4.6%	3.3%
None	89.0%	90.4%	92.1%
Employment Status [^]			
Employed in dental hygiene	91.1%	90.3%	90.5%
Employed in other than dental hygiene	3.0%	3.3%	3.3%
Unemployed, seeking dental hygiene employmen	0.9%	1.5%	1.7%
Unemployed, not seeking dental hygiene employr	3.9%	3.7%	3.3%
Retired	0.9%	0.9%	0.8%
Student	0.2%	0.2%	0.4%
[^] All Respondents * The definition of urban/rural has changed from the April 2006 report. It is now defined by the 2000 U.S. Census ** Option of N/A (not applicable) included on previous survey forms			

**COMPARISON OF RESPONSES OF THE PENNSYLVANIA SURVEY OF DENTAL HYGIENISTS
EMPLOYED IN DIRECT PATIENT CARE IN PENNSYLVANIA (cont.)**

Measure	Hygienist 2003	Hygienist 2005	Hygienist 2007
Type of Position**			
Direct Patient Care	96.6%	88.9%	96.3%
Administration/Management	0.7%	1.0%	0.9%
Educator (includes in-service)	2.2%	2.3%	2.1%
Researcher/Consultant	0.1%	0.2%	0.2%
Other	0.3%	0.4%	0.3%
Employment Sector**			
Hospital	0.9%	0.9%	0.9%
Nursing Home	0.1%	0.1%	0.1%
Private Practice Partnership	28.7%	43.2%	33.5%
Private Practice, Solo Dentist	67.6%	53.1%	61.4%
Military (Federal or State)	0.1%	0.0%	0.1%
Professional School	0.0%	0.0%	0.2%
University/College Health Center	0.2%	0.1%	0.3%
Public/Private Elementary/Secondary School	0.2%	0.0%	0.2%
Correctional Facility	0.7%	0.5%	0.6%
Consulting Firm	0.0%	0.0%	0.0%
Non-profit Community Health Center	0.8%	1.0%	1.3%
Government Administration	0.0%	0.0%	0.1%
Government Inpatient/Outpatient Facility	0.1%	0.2%	0.1%
Managed Care/Insurance Administration	0.0%	0.0%	0.0%
Temp Agency/Personnel Pool	0.3%	0.5%	0.7%
Other Business or Industry	0.2%	0.2%	0.5%
Managed Care/Insurance Clinical Staff	0.1%	0.1%	0.0%
Career Satisfaction**			
Very Dissatisfied	6.4%	7.9%	8.9%
Dissatisfied	1.8%	2.8%	2.5%
Somewhat Satisfied	30.0%	40.0%	39.1%
Very Satisfied	61.7%	49.3%	49.4%
Job Satisfaction**			
Very Dissatisfied	6.1%	6.9%	7.9%
Dissatisfied	3.0%	4.5%	4.8%
Somewhat Satisfied	36.3%	43.7%	44.4%
Very Satisfied	54.6%	44.9%	43.0%
Planning to Remain in Dental Hygiene			
0-5 Years	11.0%	11.6%	10.8%
6-10 Years	25.9%	25.2%	24.5%
11-15 Years	27.4%	23.6%	25.1%
16+ Years	35.7%	39.7%	39.6%
** Option of N/A (not applicable) included on previous survey forms			

Appendix 4 – Analysis of Non-Renewing Dentists and Dental Hygienists

Some data are available on the Dentists and Dental Hygienists who did not renew in the 2007 renewal cycle.

Age at time of non-renewal

Dentists tend to give up their licenses at a later age than dental hygienists. The median age for respondent dentists was 41, while the median age for respondent dental hygienists was 52. The highest proportion of dentists gave up their license between the ages of 30-34 and the non-renewals taper off gradually after the 30-34 age group before rising again at that 50-54 age group. The highest proportion of dental hygienists also gave up their licenses between the ages of 30-34. The number of non-renewals gradually tapers off as they get older. The proportion of non-renewals at each age is displayed in Figure 3.1 and Table 3.1.

Figure 3.1: AGE GROUPS OF NON-RENEWING DENTISTS AND DENTAL HYGIENISTS

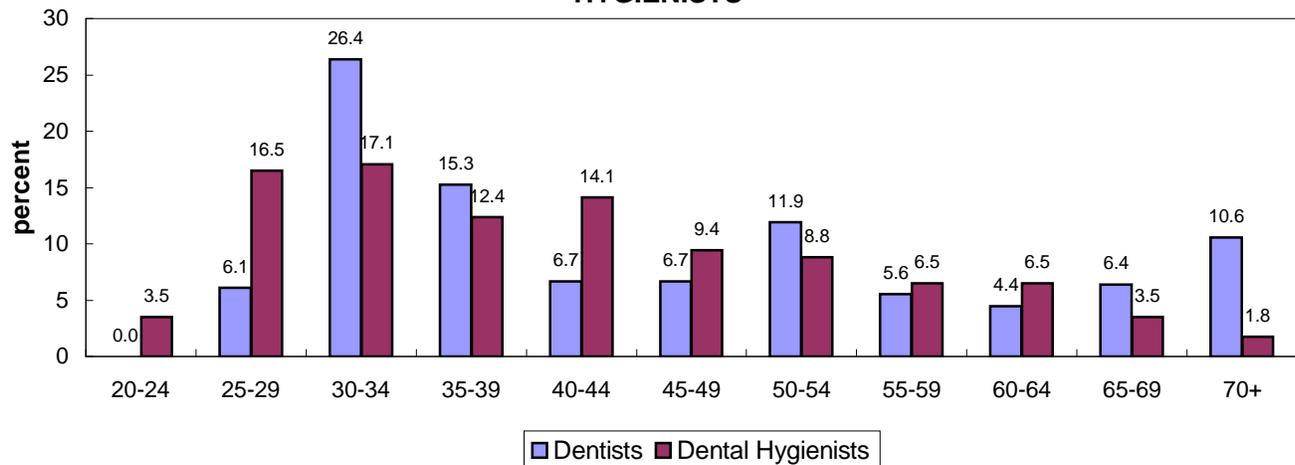


Table 3.1: AGE GROUPS OF NON-RENEWING DENTISTS AND DENTAL HYGIENISTS

Age Group	Dentist		Dental Hygienist	
	Non-Renewals	%	Non-Renewals	%
20-24	0	0.0	6	3.5
25-29	22	6.1	28	16.5
30-34	95	26.4	29	17.1
35-39	55	15.3	21	12.4
40-44	24	6.7	24	14.1
45-49	24	6.7	16	9.4
50-54	43	11.9	15	8.8
55-59	20	5.6	11	6.5
60-64	16	4.4	11	6.5
65-69	23	6.4	6	3.5
70+	38	10.6	3	1.8
	<u>360</u>		<u>170</u>	

Appendix 4 (cont.) - Analysis of Non-Renewing Dentists and Dental Hygienists

State of residence at time of non-renewal

Figure 3.2 and Table 3.2 show that the percent of license expirations is lower for non-renewers residing in all other states than it is for non-renewers in Pennsylvania and contiguous states to Pennsylvania.

Figure 3.2: State of Residence of Non-Renewers

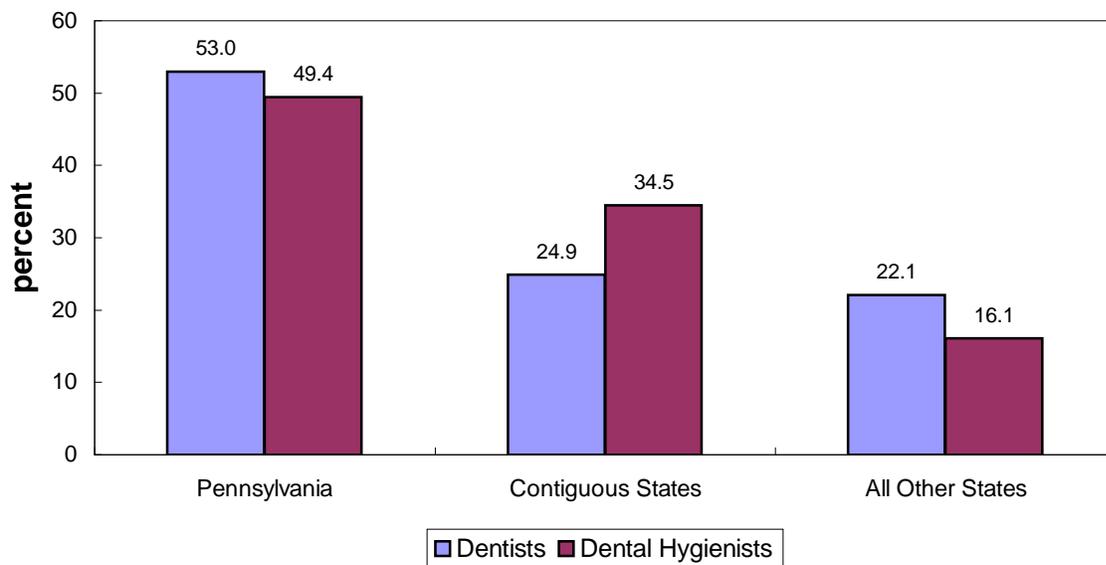


Table 3.1: State of Residence of Non-Renewers

STATE OF RESIDENCE	Dentists		Dental Hygienists	
	Number	Percent	Number	Percent
Pennsylvania	185	53.0%	83	49.4%
Contiguous States	87	24.9%	58	34.5%
All Other States	77	22.1%	27	16.1%
Total	349	100.0%	168	100.0%

ACKNOWLEDGEMENTS

PA DEPARTMENT OF HEALTH

Bureau of Health Planning
Room 1033, Health and Welfare Building
7th and Forester Streets
Harrisburg, Pennsylvania 17120
Telephone: 717-772-5298

Bureau of Health Statistics and Research
555 Walnut Street, 6th Floor
Harrisburg, Pennsylvania 17101-1914
Telephone: 717-783-2548

PA DEPARTMENT OF STATE

Bureau of Professional and Occupational Affairs
2601 North Third Street
Harrisburg, Pennsylvania 17110
Telephone: 717-783-7192

Bureau of Management Information Systems
B08 North Office Building
Harrisburg, PA 17120