

Report of Responses to the 2004, 2006, and 2008 Physician Assistant Re-Licensure Surveys

Produced by: Indiana Center for Health Workforce Studies

Bowen Research Center, Department of Family Medicine Indiana University School of Medicine

In collaboration with the: Indiana Area Health Education Centers Program

February 2010

Authors: Terrell W. Zollinger, DrPH Komal Kochhar, MBBS, MHA Jennifer M. Alyea, MPH



Report of Responses to the 2004, 2006, and 2008

Physician Assistant Re-Licensure Surveys

Produced by

The Indiana Center for Health Workforce Studies

Bowen Research Center, Department of Family Medicine Indiana University School of Medicine

In collaboration with Indiana Area Health Education Centers Program

February 2010

Terrell W. Zollinger, DrPH Komal Kochhar, MBBS, MHA Jennifer M. Alyea, MPH

Acknowledgements

We would like to extend our gratitude to all the talented and dedicated individuals who provided valuable and timely assistance to us during the project. Preparing this report required the assistance, cooperation, and effort of many individuals and agency staff. The survey data and additional data elements were provided by the Indiana Professional Licensing Agency and the Indiana State Department of Health.

An advisory committee provided direction and insights to the data analysis and report generation:
Augustine O. Agho, PhD, Dean and Professor, Indiana University School of Health &
Rehabilitation Sciences, Indiana University-Purdue University Indianapolis
Barbara Battista, SP, PA-C, Physician Assistant program, Indiana State University; PresidentElect, Indiana Academy of Physicians Assistants
Dawn LaBarbera, PhD, PA-C, Associate Professor and Chair, Department of Physician Assistant
Studies, University of Saint Francis
Jennifer Bruner, JD, Staff Attorney, Indiana State Department of Health
Jennifer Snyder, MPAS, PA-C, Associate Professor, Physician Assistant program, Butler
University
Jennifer Zorn, MS, PA-C, Assistant Professor, Physician Assistant program, Butler University
Kristen Kellev, Board Director, Medical Licensing Board of Indiana

The cooperation and support of the Indiana State Department of Health was instrumental in obtaining the survey data and interpreting it. The authors are grateful for the financial support received from the Indiana Area Health Education Centers Program to produce this report.

Terrell W. Zollinger, DrPH Komal Kochhar, MBBS, MHA Jennifer M. Alyea, MPH

Table of Contents

Acknowledgements	2
Table of Contents	3
Executive Summary	4
Chapter 1: Introduction	6
Chapter 2: Responses to the 2004, 2006, and 2008 Physician Assistant Surveys	9
Chapter 3: Location of Physician Assistants by County in Indiana	20
Chapter 4: Trends in the Physician Assistant Workforce	25
Chapter 5: Conclusions	27

Appendices

Appendix 1: 2004, 2006, and 2008 Physician Assistant Survey Instruments	28-47
Appendix 1A: 2004 Physician Assistant Survey Instrument	
Appendix 1B: 2006 Physician Assistant Survey Instrument	
Appendix 1C: 2008 Physician Assistant Survey Instrument	
Appendix 2: Comparison Chart of Variable Availability in Each Dataset	48
Appendix 3: Proposed Changes to the 2010 Physician Assistant Survey	49

Executive Summary

Introduction

The Indiana State Department of Health and the Indiana Professional Licensing Agency developed a collaborative partnership to collect data through the licensing process to better understand the health professions workforce within the state. Beginning in 2004, physician assistants were asked to participate in voluntary surveys when renewing their licenses every two years. The purpose of this report is to summarize the participants' responses to the survey items. The responses provide a detailed description of the physician assistant workforce in the state of Indiana to aid in the development of policies and programs to recruit and retain these health professionals where they are needed in Indiana.

Methods

Items in the re-licensure survey included demographics and characteristics of the respondent's primary position. The location of a respondent's physician assistant training program, as well as the level of education received, were also collected. A total of 432 (in 2004), 593 (in 2006), and 655 (in 2008) physician assistants renewed their licenses. The total response rates for the surveys were 75.9% (in 2004), 72.5% (in 2006), and 77.6% (in 2008). This report focuses on those physician assistants who renewed their licenses electronically and had the opportunity to complete the survey; those physician assistants whose licenses were active, valid to practice while reviewed, or on probation; who identified themselves as actively working as a physician assistant; and who held non-federal principal employment positions in Indiana.

Survey respondents' results for 2004, 2006 and 2008

Of the physician assistants who listed their principal position as being in the state of Indiana, nearly all (98.6% in 2004, 98.6% in 2006 and 98.8% in 2008) were actively working as physician assistants. Threefourths (70.4% in 2004, 72.0% in 2006, and 72.4% in 2008) of the respondents were under 45 years of age. Three-fifths of the respondents in 2004 (56.7%) and 2008 (63.7%) were female. Almost all (95.7% in 2004 and 93.6% in 2008) of the respondents were white, non-Hispanic. The questions on gender, race and ethnicity were not asked in 2006. Spanish was the most common language other than English spoken fluently (2.5% in 2004, 3.6% in 2006, and 2.8% in 2008). Three-fifths (60.2% in 2006 and 55.9% in 2008) indicated they had a bachelor's degree. One-third (31.7% in 2006 and 31.2% in 2008) received physician assistant degrees from Butler University¹. A majority of the respondents spent most of their time in "direct patient care and patient care-related" activities (96.5% in 2004, 96.4% in 2006, and 98.4% in 2008). The number of respondents who worked 40 or more hours dropped from 74.9% in 2004 to 67.9% in 2008. Those who responded they worked less than 20 hours, also dropped slightly from 3.9% in 2004 to 3.3% in 2008. A majority of the respondents (88.3% in 2004, 96.4% in 2006, and 93.6% in 2008) worked for a private-sector employer. One-tenth (12.8% in 2006 and 13.4% in 2008) indicated they had more than one position or employer. The largest proportion of physician assistants worked under the supervision of physicians in surgery, emergency medicine, and family medicine. One-fourth (27.9% in 2004, 28.6% in 2006 and 27.1% in 2008) reported having a supervising physician in Surgery, followed by emergency medicine and family medicine. Over the time period, the two most common workplace settings were "hospitals" and "physician private practices."

Location of physician assistants in Indiana

Counties with the largest populations tended to have the most physician assistants and the highest ratios per 100,000 population. Forty counties had no physician assistants participating in the re-licensure survey.

Time trends in the physician assistant workforce

The number of Indiana physician assistants who are estimated to be actively practicing in Indiana increased from 2004 to 2008. There has been a large increase in the number of physician assistants

between the ages of 25 and 34. The number of physician assistants noted as working 40 or more hours per week is projected to grow, as is the number of physician assistants working 20-39 hours per week.¹

Conclusions

The number of physician assistants actively working in Indiana has been growing; however in 2008 there were forty counties without any of these professionals. Most physician assistants were white, non-Hispanic, female and in the 25-34 age group. Nearly one-half received physician assistant degrees from Indiana institutions. A large majority of the physician assistants reported being either in "direct patient care in hospitals" or "private practice" settings. Surgery, emergency medicine, and family medicine were the most common specialties.

¹ The Physician Assistant program at Butler University was formerly known as Butler University / Methodist Hospital in Indiana.

Chapter 1: Introduction

Having an accurate understanding of the personal and professional characteristics of physician assistants licensed in Indiana is critical to develop and manage effective programs to recruit and retain physician assistants where they are most needed in the state. Having quality data about physician assistants in Indiana will help policymakers and other stakeholders' make more accurate decisions. The purpose of this report is to provide those data. The findings from this report may be used to identify physician assistants shortage areas, develop more recruitment and retention strategies and plan additional locations for training physician assistants within the state.

The Indiana State Department of Health (ISDH) and the Indiana Professional Licensing Agency (IPLA) collaborated in implementing the 2004, 2006, 2008 Indiana physician assistants re-licensure surveys. All physician assistants who renewed their license electronically during the 2004, 2006, and 2008 Indiana physician assistants re-licensure periods were asked to complete an electronic survey instrument.

The 2008 Indiana physician assistants re-licensure survey instrument included items to address current work status, principal practice location, principal position, activities performed in the principal practice location, major specialty of the supervising physician, principal practice setting, average hours worked, current education level, and demographic information. A copy of the 2004, 2006, and 2008 Indiana physician assistants re-licensure survey instruments is included in *Appendix 1*.

This report summarizes the responses to the 2004, 2006, and 2008 Indiana physician assistants relicensure survey.

Inclusion criteria

The major focus of this report includes only those physician assistants who renewed their licenses electronically and had the opportunity to complete the survey; those physician assistants whose licenses were active, valid to practice while reviewed, or on probation; who identified themselves as actively working as a physician assistant; and who held non-federal principal employment positions in Indiana. All others were generally excluded from the results shown in this report.

Response rates

Table 1.1 License Renewal 2006 2008 2004 **Electronic Survey** Number Percent Number Percent Number Percent Did not renew electronically 83 19.2 127 104 15.9 21.4 Renewed electronically and responded to at least one question 75.9 328 430 72.5 508 77.6 Renewed electronically but did not respond to any questions 21 4.9 36 6.1 43 6.6 100.0 593 655 Total 432 100.0 100.0

Table 1.1 shows that 432 (in 2004), 593 (in 2006) and 655 (in 2008) physician assistants renewed their licenses. Only those who renewed electronically were given the opportunity to complete the survey, since it was an on-line survey. In 2004, 328 physician assistants renewed electronically and responded to at least one question on the survey, yielding a 75.9% response rate. In 2006, 430 (72.5%) responded and in 2008, 508 (77.6%) responded to at least one question on the survey.

Current work status

	20)04	20	006	2008	
Work Status	Number	Percent	Number	Percent	Number	Percent
Actively working as a physician assistant	283	98.6	360	98.6	426	98.8
Retired as a physician assistant	0	0.0	0	0.0	0	0.0
Temporarily inactive as a physician assistant	4	1.4	5	1.4	5	1.2
Total	287	100.0	365	100.0	431	100.0
No response	3		1		2	

Table 1.2 Current Work Status of Physician Assistants in Indiana*

*These numbers represent survey respondents only.

Table 1.2 shows that most (98.6% in 2004, 98.6% in 2006, and 98.8% in 2008) of the respondents were actively working as physician assistants in Indiana. Slightly more than one percent identified themselves as being temporarily inactive. Only the actively working physician assistants were the major focus of this report. Some of the physician assistants who were licensed in Indiana did not indicate that they worked in Indiana and were also excluded from this report.

Data analysis

The Indiana State Department of Health provided the Indiana University Bowen Research Center three data files that contained responses to the 2004, 2006, and 2008 Indiana physician assistant surveys and corresponding data dictionaries to describe the data in each of those datasets. PASW (Predictive Analytics Software, formerly SPSS) statistical program, version 17.0, was used to perform the data analyses.

Limitations

One limitation to the surveys is possible non-response bias, as only those who renewed electronically and chose to participate in the re-licensure survey are represented in the data analyses. This bias is presumed to be low, given that approximately three-fourths of those targeted participated in the surveys each year. Also, there is little difference in the age distribution of all actively practicing physician assistants in Indiana and the age distribution of those who responded to the survey (see Tables 2.1 and 2.2). More females were seen in the 25-44 age groups while males appeared to be higher in the 45-or-older age groups. For the maps and future projections of physician assistants, the count of physician assistants participating in the survey was corrected for the non-response proportion to provide more

7

accurate estimates of the number of these professionals in Indiana. The locations of non-respondents and respondents are assumed to be similar.

Organization of this report

The first chapter of this report provides an overview of the document. Chapter 2 presents the results of the surveys in tables for comparison of responses from 2004, 2006, and 2008. Chapter 3 includes maps of Indiana showing the number of physician assistants and the ratio of physician assistants to population in each county. Chapter 4 describes projected trends in the physician assistant workforce in Indiana. Finally, Chapter 5 summarizes the findings of the data analysis for 2008.

Appendices

Appendix 1 contains the survey instruments utilized in 2004, 2006, and 2008. *Appendix 2* provides a comparison chart to show the specific survey items used in each of the three re-licensure surveys. *Appendix 3* describes the proposed changes to the 2010 Indiana physician assistant re-licensure survey instrument.

Chapter 2: Responses to the 2004, 2006, and 2008 Physician Assistant Surveys

This chapter summarizes the findings of the 2004, 2006, and 2008 Indiana physician assistant relicensure surveys. Unless otherwise stated, the *numbers* are representative only of respondents and have not been adjusted to account for those who did not respond. However, the *percentages* shown are believed to be representative of all physician assistants actively practicing in Indiana. Missing responses have been noted in each table, and only valid percentages are presented.

Age

	20	04	20	06	2008		
Age	Number	Percent	Number	Percent	Number	Percent	
Under 25	19	4.4	29	4.9	5	0.8	
25-34	176	40.7	237	40.2	288	44.1	
35-44	109	25.2	159	26.9	180	27.6	
45-54	94	21.8	114	19.3	103	15.8	
55-64	31	7.2	47	8.0	71	10.9	
65 and over	3	0.7	4	0.7	6	0.9	
Total	432	100.0	590	100.0	653	100.0	
No response	0		3		2		

 Table 2.1
 Age Groups of All Physician Assistants

The data provided by the Indiana State Department of Health included the birthdates of all licensed physician assistants, regardless of whether they responded to the re-licensure survey. Thus, Table 2.1 shows the age distribution of *all* physician assistants who renewed their licenses in the 2004, 2006 and 2008 re-licensure periods. Almost three-fourths (70.4% in 2004, 72.0% in 2006, and 72.4% in 2008) were under 45 years of age.

Age of survey respondents

Table 2.2 Age Groups of Survey Respondents*							
	20	04	20	06	20	2008	
Age	Number	Percent	Number	Percent	Number	Percent	
Under 25	4	1.4	10	2.8	4	0.9	
25-34	122	43.1	157	44.0	198	46.7	
35-44	78	27.6	90	25.2	106	25.0	
45-54	58	20.5	69	19.3	68	16.0	
55-64	15	5.3	30	8.4	45	10.6	
65 and over	6	2.1	1	0.3	3	0.7	
Total	283	100.0	357	100.0	424	100.0	
No response	0		3		2		

* These numbers represent survey respondents only.

Table 2.2 shows the age distribution of respondents active in Indiana in 2004, 2006, and 2008 relicensure periods. More than two-fifths (43.1% in 2004, 44.0% in 2006, and 46.7% in 2008) of the respondents were in the 25-34 age group. Nearly one-half (48.1% in 2004, 44.5% in 2006, and 41.0% in 2008) of the respondents were in the 35-54 age group. About one-tenth (7.4% in 2004, 8.7% in 2006, and 11.3% in 2008) of the respondents were in the 55-or-older age group

Gender

Table 2.5 Gender of Sulvey Respondents							
	2004		20	06	2008		
Gender	Number	Percent	Number	Percent	Number	Percent	
Female	160	56.7	n/a	n/a	268	63.7	
Male	122	43.3	n/a	n/a	153	36.3	
Total	282	100.0	n/a	n/a	421	100.0	
No response	1				5		

Table 2.3 Gender of Survey Respondents*

* These numbers represent survey respondents only.

Gender distribution for respondents in 2004 and 2008 is shown in Table 2.3. The question on gender was not asked on the 2006 survey. Almost three-fifths of respondents in 2004 (56.7%) and 2008 (63.7%) were female.

Age and gender

	Fem	nale	Male					
Age	Number	Percent	Number	Percent				
Under 25	4	1.5	0	0.0				
25-34	154	57.5	41	27.2				
35-44	62	23.1	43	28.5				
45-54	35	13.1	33	21.9				
55-64	12	4.5	32	21.2				
65 and over	1	0.4	2	1.3				
Total	268	100.0	151	100.0				
No Response	0		2					

Table 2.4 Age and Gender of Survey Respondents, 2008*

Chi-square p-value < 0.0005

* These numbers represent survey respondents only.

Table 2.4 shows the age and gender distribution of the respondents in 2008. More than three-fourths (80.6%) of the female respondents were in the 25-44 age group. Over two-fifths (44.4%) of the male respondents were in the 45-or-older age group. The differences between the two groups were highly statistically significant.

Race

	2004		2006		2008	
Race	Number	Percent	Number	Percent	Number	Percent
White	270	95.7	n/a	n/a	393	93.6
Black/African American	2	0.7	n/a	n/a	8	1.9
Asian/Pacific Islander	4	1.4	n/a	n/a	11	2.6
American Indian/Native Alaskan	0	0.0	n/a	n/a	3	0.7
Multi-racial	2	0.7	n/a	n/a	0	0.0
Other	4	1.4	n/a	n/a	5	1.2
Total	282	100.0	n/a	n/a	420	100.0
No response	1				6	

Table 2.5 Race of Survey Respondents*

* These numbers represent survey respondents only.

Table 2.5 displays the races of physician assistant survey respondents in 2004 and 2008. The question on race was not asked on the 2006 survey. Almost all (95.7% in 2004 and 93.6% in 2008) of the respondents were white. Overall, the proportions of Black/African American, Asian/Pacific Islander, and American Indian/Native Alaskan respondents increased slightly over the time period. However, within the minority groups an increase was noted from 4.2% in 2004 to 6.4% in 2008.

Ethnicity

Table 2.6 Ethnicity of Survey Respondents*								
	2004		2006		2008			
Hispanic	Number	Percent	Number	Percent	Number	Percent		
Yes	4	1.4	n/a	n/a	7	1.7		
No	277	98.6	n/a	n/a	411	98.3		
Total	281	100.0	n/a	n/a	418	100.0		
No response	2				8			

* These numbers represent survey respondents only.

Table 2.6 shows the ethnicity of respondents for the 2004 and 2008 surveys. The question on ethnicity was not asked on the 2006 survey. The percentage of respondents who reported they were of Hispanic origin remained fairly stable from 2004 to 2008.

Language fluency

	20	2004		06	20	08
Language	Number	Percent	Number	Percent	Number	Percent
Spanish	7	2.5	13	3.6	12	2.8
French	n/a	n/a	3	0.8	6	1.4
Russian	n/a	n/a	1	0.3	4	0.9
Sign Language	n/a	n/a	0	0.0	4	0.9
Arabic	n/a	n/a	2	0.6	2	0.5
Tagalog	n/a	n/a	2	0.6	2	0.5
African	n/a	n/a	0	0.0	2	0.5
Portuguese	n/a	n/a	n/a	n/a	2	0.5
Chinese	n/a	n/a	2	0.6	1	0.2
Filipino	n/a	n/a	1	0.3	1	0.2
Hindi	n/a	n/a	0	0.0	1	0.2
Thai	n/a	n/a	0	0.0	1	0.2
Greek	n/a	n/a	2	0.6	0	0.0

Table 2.7 Language Fluency of Survey Respondents*

* These numbers represent survey respondents only.

Table 2.7 presents the respondents' fluency in languages other than English in 2004, 2006 and 2008. In 2004, fluency in Spanish was the only information gathered on languages. Additional languages were added in subsequent surveys. Spanish was the most common language other than English spoken fluently by the respondents (2.5% in 2004, 3.6% in 2006, and 2.8% in 2008). French, Russian and sign language were the next most common languages spoken fluently by the respondents in 2008.

Highest degree of physician assistants

Tuble 2.6 Ingliest Hysician Assistant creacitian Degree of Respondents								
	2004		20	06	2008			
Degree	Number	Percent	Number	Percent	Number	Percent		
Certificate of Completion	n/a	n/a	17	4.7	20	4.8		
Associate Degree	n/a	n/a	22	6.1	24	5.8		
Bachelor's Degree	n/a	n/a	216	60.2	233	55.9		
Master's Degree	n/a	n/a	104	29.0	140	33.6		
Total	n/a	n/a	359	100.0	417	100.0		
No Response			1		9			

Table 2.8 Highest Physician Assistant Credential/Degree of Respondents*

* These numbers represent survey respondents only.

Table 2.8 shows the highest degree or credential among the respondents. The question on highest physician assistant degree or credential was asked in 2006 and 2008 only. Three-fifths (60.2% in 2006 and 55.9% in 2008) of the respondents indicated having a bachelor's degree. About one-third (29.0% in 2006 and 33.6% in 2008) of the respondents indicated having a master's degree in the field. One-tenth (10.9% in 2006 and 10.6% in 2008) of the respondents indicated having either a certificate of completion

or an associate degree. The proportion of physician assistants obtaining master's degrees appears to be increasing.

Table 2.9 Highest degree and Gender of Survey Respondents, 2008*								
	Fem	nale	Ma	ale				
Highest degree	Number	Percent	Number	Percent				
Certificate of completion	11	4.1	9	6.1				
Associate	8	3.0	16	10.9				
Bachelors	152	57.1	78	53.1				
Masters	95	35.7	44	29.9				
Total	266	100.0	147	100.0				
No Response	2		6					

Highest degree and gender

Chi-square p-value = 0.007

* These numbers represent survey respondents only.

Table 2.9 presents the highest degree and gender distribution of respondents in 2008. Nearly three-fifths (57.1%) of the female respondents had a bachelor's degree. In addition, more than one-third (35.7%) of the female respondents had a master's degree. The differences between the two groups were statistically significant.

Location of physician assistant training program

Table 2.10 Location of Physician As	-	004	-	06	2008	
Education Location	Number	Percent	Number	Percent	Number	Percent
Butler University-Indiana	n/a	n/a	110	31.7	129	31.2
University of St. Francis-Indiana	n/a	n/a	61	17.6	69	16.7
Alabama	n/a	n/a	3	0.9	3	0.7
Arizona	n/a	n/a	7	2.0	8	1.9
California	n/a	n/a	3	0.9	4	1.0
Connecticut	n/a	n/a	1	0.3	3	0.7
Florida	n/a	n/a	5	1.4	7	1.7
Georgia	n/a	n/a	3	0.9	3	0.7
Illinois	n/a	n/a	35	10.1	43	10.4
Iowa	n/a	n/a	2	0.6	2	0.5
Kansas	n/a	n/a	2	0.6	2	0.5
Kentucky	n/a	n/a	6	1.7	15	3.6
Louisiana	n/a	n/a	1	0.3	0	0.0
Maryland	n/a	n/a	0	0.0	2	0.5
Massachusetts	n/a	n/a	0	0.0	1	0.2
Michigan	n/a	n/a	7	2.0	7	1.7
Missouri	n/a	n/a	3	0.9	1	0.2
Nebraska	n/a	n/a	24	6.9	28	6.8
Nevada	n/a	n/a	0	0.0	1	0.2
New Jersey	n/a	n/a	2	0.6	1	0.2
New York	n/a	n/a	5	1.4	8	1.9
North Carolina	n/a	n/a	5	1.4	6	1.4
North Dakota	n/a	n/a	3	0.9	2	0.5
Ohio	n/a	n/a	18	5.2	23	5.6
Oklahoma	n/a	n/a	5	1.4	3	0.7
Oregon	n/a	n/a	0	0.0	1	0.2
Pennsylvania	n/a	n/a	16	4.6	18	4.3
South Carolina	n/a	n/a	1	0.3	2	0.5
Tennessee	n/a	n/a	3	0.9	6	1.4
Texas	n/a	n/a	6	1.7	6	1.4
Virginia	n/a	n/a	1	0.3	2	0.5
Washington	n/a	n/a	1	0.3	1	0.2
West Virginia	n/a	n/a	5	1.4	3	0.7
Wisconsin	n/a	n/a	3	0.9	4	1.0
Total	n/a	n/a	347	100.0	414	100.0
No response			13		12	

Table 2.10 Location of Physician Assistant Programs Attended by Survey Respondents*

* These numbers represent survey respondents only.

Table 2.10 shows the location of physician assistant training programs that the respondents attended. Nearly one-third (31.7% in 2006 and 31.2% in 2008) of all respondents received physician assistant degrees from Butler University². Less than one-fifth (17.6% in 2006 and 16.7% in 2008) of all respondents received a degree from the University of Saint Francis in Indiana. ³

² The physician assistant program at Butler University was formerly known as Butler University / Methodist Hospital in Indiana.

³ The physician assistant program at University of Saint Francis in Indiana was formerly known as Saint Francis / Lutheran College of Indiana.

Professional activities

	2004		2006		2008	
Activity	Number	Percent	Number	Percent	Number	Percent
Direct patient care/related activities	272	96.5	347	96.4	418	98.4
Administration	5	1.8	2	0.6	0	0.0
Teaching	5	1.8	6	1.7	7	1.6
Research	0	0.0	1	0.3	0	0.0
Other	0	0.0	4	1.1	0	0.0
Total	282	100.0	360	100.0	425	100.0
No Response	1		0		1	

Table 2.11 Activity in Which Most Professional Time Was Spent by Survey Respondents*

* These numbers represent survey respondents only.

The activity in which respondents spent most of their professional time is shown in Table 2.11. A majority of the respondents spent most of their professional time in "direct patient care and "patient-care-related" activities (96.5% in 2004, 96.4% in 2006, and 98.4% in 2008). Teaching was the second-most frequently cited activity.

Average number of hours worked weekly in all physician assistant activities

	2004		2006		2008	
Hours	Number	Percent	Number	Percent	Number	Percent
1-9	4	1.4	4	1.1	3	0.7
10-19	7	2.5	9	2.5	11	2.6
20-29	19	6.7	26	7.2	39	9.2
30-39	41	14.5	72	20.1	83	19.6
40 and over	212	74.9	248	69.1	288	67.9
Total	283	100.0	359	100.0	424	100.0
No Response	0		1		2	

Table 2.12 Average Hours Worked per Week in Physician Assistant Activities by Survey Respondents*

* These numbers represent survey respondents only.

Table 2.12 shows the average number of hours worked per week by all respondents. The number of respondents who worked 40 or more hours has dropped from 74.9% in 2004 to 67.9% in 2008. The number who responded they worked less than 20 hours also dropped slightly from 3.9% in 2004 to 3.3% in 2008.

Average number of hours worked and gender

	Fem	nale	Male		
Average hours worked	Number	Percent	Number	Percent	
1-9 hrs	2	0.7	1	0.7	
10-19 hrs	10	3.7	1	0.7	
20-29 hrs	32	11.9	6	3.9	
30-39 hrs	61	22.8	22	14.5	
40 and over hrs	163	60.8	122	80.3	
Total	268	100.0	152	100.0	
No Response	0		1		

Table 2.13 Average hours worked and Gender of Survey Respondents, 2008*

Chi-square p-value = 0.001

* These numbers represent survey respondents only.

Table 2.13 displays the average number of hours worked per week and the gender distribution of respondents in 2008. One-third (34.7%) of the female respondents indicated working 20-39 hours per week in contrast to one-fifth (18.4%) of the male respondents. In addition, three-fifths (60.8%) of the female respondents indicated working 40 or more hours compared to four-fifths (80.3%) of the male respondents. The differences between the two groups were statistically significant.

Table 2.14 Respondents Primary Type of Employer						
20	04	2006		2008		
Number	Percent	Number	Percent	Number	Percent	
249	88.3	347	96.4	395	93.6	
3	1.1	2	0.6	1	0.2	
1	0.4	6	1.7	2	0.5	
3	1.1	1	0.3	3	0.7	
2	0.7	4	1.1	1	0.2	
24	8.5	0	0.0	20	4.7	
282	100.0	360	100.0	422	100.0	
1		0		4		
	20 Number 249 3 1 3 2 24	2004 Number Percent 249 88.3 3 1.1 1 0.4 3 1.1 2 0.7 24 8.5	2004 20 Number Percent Number 249 88.3 347 3 1.1 2 1 0.4 6 3 1.1 1 2 0.7 4 24 8.5 0 282 100.0 360	2004 2006 Number Percent Number Percent 249 88.3 347 96.4 3 1.1 2 0.6 1 0.4 6 1.7 3 1.1 1 0.3 2 0.7 4 1.1 24 8.5 0 0.0 282 100.0 360 100.0	2004 2006 20 NumberPercentNumberPercentNumber24988.334796.439531.120.6110.461.7231.110.3320.741.11248.500.020282100.0360100.0422	

Primary type of employer

Table 2.14 Respondents' Primary Type of Employer*

* These numbers represent survey respondents only.

Table 2.14 shows the type of employer reported by the respondents. A majority of the

respondents (88.3% in 2004, 96.4% in 2006, and 93.6% in 2008) worked for a private-sector employer.

More than one position or employer

	20	2004		2006		2008	
More than One Position / Employer	Number	Percent	Number	Percent	Number	Percent	
Yes	n/a	n/a	46	12.8	57	13.5	
No	n/a	n/a	314	87.2	366	86.5	
Total	n/a	n/a	360	100.0	423	100.0	
No Response			0		3		

Table 2.15 Respondents with More than One Position/Employer as a Physician Assistant*

* These numbers represent survey respondents only.

Table 2.15 describes whether the respondent held more than one position or had more than one employer as a physician assistant. This question was not asked on the 2004 survey. Over one-tenth (12.8% in 2006 and 13.5% in 2008) of all respondents indicated having more than one position or employer.

Physician assistants by aggregated specialty of supervising physician

Table 2.16 Physician Assistar		2004		2006		08
Specialty	Number	Percent	Number	Percent	Number	Percent
Surgery	79	27.9	103	28.6	115	27.1
Emergency Medicine	55	19.4	65	18.1	82	19.3
Family Practice/Family Medicine	50	17.7	59	16.4	75	17.6
Internal Medicine	14	4.9	25	6.9	22	5.2
Cardiology	n/a	n/a	10	2.8	19	4.5
Dermatology	7	2.5	11	3.1	17	4.0
Urology	11	3.9	11	3.1	13	3.1
Occupational Medicine	13	4.6	12	3.3	12	2.8
Radiology	n/a	n/a	13	3.6	12	2.8
Urgent Care Medicine	n/a	n/a	n/a	n/a	10	2.4
Pediatrics	6	2.1	8	2.2	7	1.6
Hematology/Oncology	1	0.4	6	1.7	6	1.4
Other Specialty	24	8.5	8	2.2	5	1.2
Pain Management	n/a	n/a	6	1.7	5	1.2
Gastroenterology	2	0.7	3	0.8	4	0.9
Neurology	2	0.7	3	0.8	4	0.9
Pulmonology	4	1.4	2	0.6	4	0.9
Otolaryngology	2	0.7	2	0.6	3	0.7
Physical Medicine & Rehabilitation	4	1.4	0	0.0	2	0.5
Addiction Medicine	n/a	n/a	n/a	n/a	1	0.2
Allergy & Immunology	0	0.0	0	0.0	1	0.2
Critical Care Medicine	n/a	n/a	n/a	n/a	1	0.2
Hospitalist	n/a	n/a	n/a	n/a	1	0.2
Infectious Diseases	2	0.7	0	0.0	1	0.2
Nephrology	1	0.4	1	0.3	1	0.2
Obstetrics & Gynecology	2	0.7	4	1.1	1	0.2
Psychiatry	n/a	n/a	1	0.3	1	0.2
General Practice	4	1.4	4	1.1	0	0.0
Not Applicable	0	0.0	3	0.8	0	0.0
Total	283	100.0	0	0.0	425	100.0
No response	0		0		1	

Table 2.16 Physician Assistants by Aggregated Specialty of Supervising Physician*

* These numbers represent survey respondents only.

Table 2.16 describes the aggregated specialty of supervising physician among respondents. More than one-fourth of all physician assistants reported having a supervising physician in surgery (27.9% in 2004, 28.6% in 2006 and 27.1% in 2008) followed by emergency medicine (19.4% in 2004, 18.1% in 2006 and 19.3% in 2008) and family medicine (17.7% in 2004, 16.4% in 2006 and 17.6% in 2008).

Principal work setting

Table 2.17	Principal Work Settings of Survey Respondents*	
	This part work settings of survey hespondents	

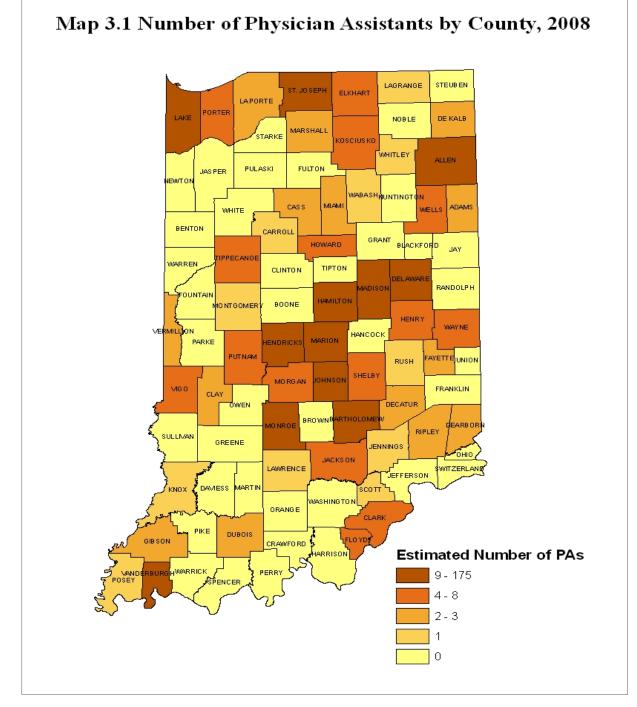
SettingNumberPercentNumberPercentNumberPercentAdult day caren/an/a10.00.0Ambulatory care setting (surg,/other)176.0133.6122.8Assisted living facility/unitn/an/a00.00.00.0College health facility20.720.630.7Community health center/clinic103.5102.81002.4Community mettal health centern/an/an/an/a10.2Continuing education/staff development00.00.00.00.00.0Drug company00.000.00.00.00.00.0Hospital (in-actient only)186.4205.6215.01.7Hospital (in-actient only)103.51.63.81.71.7.24.5Hospital EK/ED4516.0591.6.47.31.7.24.5Hospital factify facture are unit/critical care unit00.00.00.00.00.0Long-term acute care facility/unitn/an/a1.03.33.01.7Hospital factify actie are facility/unitn/an/a1.00.00.00.0Long-term acute care facility/unitn/an/a1.00.00.00.00.0Long-term acute care facility/unitn/an/a1.01.0			04		06	20	08
Adult day care n/a n/a n/a 1 0.3 0 0.0 Ambulatory care setting (surg,/other) 17 6.0 13 3.6 12 2.8 Assisted living facility/unit n/a n/a 0 0.0 0.00 College health facility 2 0.7 2 0.6 3 0.7 Community mental health center n/a n/a n/a n/a n/a n/a 1 0.2 Continuing education/staff development 0 0.0 0 </th <th>Setting</th> <th></th> <th></th> <th>Number</th> <th>Percent</th> <th>Number</th> <th>Percent</th>	Setting			Number	Percent	Number	Percent
Ambulatory care setting (surg./other) 17 6.0 13 3.6 12 2.8 Assisted living facility/unit n/a n/a n/a 0 0.0 0 0.0 College health facility 2 0.7 2 0.6 3 0.7 Community mental health center 10 3.5 10 2.8 10 2.4 Community substance abuse agency n/a n/a n/a n/a n/a 0.0 0.0 0.0 0.0 Community substance abuse agency 0 0.0 0 0.0 <t< td=""><td></td><td>n/a</td><td>n/a</td><td>1</td><td>0.3</td><td></td><td>0.0</td></t<>		n/a	n/a	1	0.3		0.0
Assisted living facility/unit n/a n/a n/a n/a 0 0.0 0.0 College health facility 2 0.7 2 0.6 3 0.7 Community health center/clinic 10 3.5 10 2.8 10 2.4 Community mental health center n/a n/a n/a 0 0.0 0 0.00 Continuing ducation/staff development 0 0.0 0 0.00 0 0.00 Hospical (in-& out-patient) 37 13.1 41 11.4 53 12.5 Hospital (in-& out-patient only) 18 6.4 20 5.6 21 5.0 Hospital (in-patient only) 18 6.4 20 5.6 23 5.5 Hospital Intensive care unit/critical care unit 0 0.00 2 0.6 2 0.5 Hospital facility 3 1.1 1 0.3 3 0.7 Industrial facility 3 1.1 1				13		12	
College health facility 2 0.7 2 0.6 3 0.7 Community health center/clinic 10 3.5 10 2.8 10 2.4 Community metal health center n/a n/a n/a n/a 1 0.2 Continuing education/staff development 0 0.0 0 0.0 0 0.0 Drug company 0 0.0 0 0.0 0 0.0 0 0.0 Home health care agency 0 0.0 0 0.0 0 0.0 0 0.0 <		n/a					
Community health center/clinic 10 3.5 10 2.8 10 2.4 Community mental health center n/a n/a n/a 0 0.0 0.0 0.0 Community substance abuse agency n/a n/a n/a n/a n/a 1 0.2 Continuing education/staff development 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0						3	
Community mental health center n/a n/a n/a n/a n/a n/a n/a n/a n/a 1 0.2 Community substance abuse agency n/a n/a n/a n/a n/a n/a n/a 1 0.2 Community substance abuse agency 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0							
Community substance abuse agency n/a n/a n/a n/a n/a n/a n/a n/a 1 0.2 Continuing education/staff development 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0		n/a					
Continuing education/staff development 0 0.0 0 0.0 0 0.0 0 0.0 Drug company 0 0.00 0 0.00 0 0.00 Home health care agency 0 0.00 0 0.00 0.00 0.00 Hospital (in- & out-patient) 37 13.1 41 11.4 53 12.5 Hospital (out-patient only) 18 6.4 20 5.6 21 5.0 Hospital (preprint only) 10 3.5 3 0.8 7 1.7 Hospital Aperating room 8 2.8 13 3.6 16 3.8 Industrial facility 3 1.1 1 0.3 3 0.7 Insurance company 0 0.0 0 0 0.0 0 0.0 Long-term Acute care facility/unit 1 0.4 2 0.6 1 0.22 Long-term/extended care facility/unit n/a n/a n/a 0							
Drug company 0 0.0 0 0.0 0.0 0.0 Home health care agency 0 0.0 0.0 0.0 0.0 0.0 Hospital (in- & out-patient) 37 13.1 41 11.4 53 12.5 Hospital (in-patient only) 18 6.4 20 5.6 21 5.0 Hospital (out-patient only) 10 3.5 3 0.8 7 1.7 Hospital fex/ED 45 16.0 59 16.4 73 17.2 Hospital operating room 8 2.8 13 3.6 16 3.8 Industrial facility 3 1.1 1 0.3 3 0.7 Insurance company 0 0.0 0 0.0 0 0.0 Law firm n/a n/a 0 0.0 0 0.0 Law firm n/a n/a 0 0.0 0 0.0 Law firm n/a n/a							
Home health care agency 0 0.0 0 0.0 0 0.0 Hospice 0 0.0 0 0.0 0 0.0 Hospital (in-k out-patient only) 18 6.4 20 5.6 21 5.0 Hospital (out-patient only) 10 3.5 3 0.8 7 1.7 Hospital (out-patient only) 45 16.0 59 16.4 73 17.2 Hospital intensive care unit/critical care unit 0 0.0 2 0.6 2 0.5 Hospital facility 3 1.1 1 0.3 3 0.8 1.6 3.8 Industrial facility 3 1.1 1 0.3 0.0							
Hospice 0 0.0 0 0.0 0 0.0 Hospital (in-& out-patient only) 13 13.1 41 11.4 53 12.5 Hospital (in-patient only) 10 3.5 3 0.8 7 1.7 Hospital intensive care unit/critical care unit 0 0.0 2 0.6 2 0.5 Hospital intensive care unit/critical care unit 0 0.0 2 0.6 2 0.5 Hospital facility 3 1.1 1 0.3 3 0.7 Industrial facility 3 1.1 1 0.3 3 0.7 Insurance company 0 0.0 0 0 0.0 0 0.0							
Hospital (in-& out-patient)3713.14111.45312.5Hospital (in-patient only)186.4205.6215.0Hospital (out-patient only)103.530.871.7.2Hospital ER/ED4516.05916.47317.2Hospital operating room82.8133.6163.8Industrial facility31.110.330.7Insurance company00.000.000.0Long-term acute care facility/unit10.420.610.2Long-term acute care facility/unitn/an/a00.00.00.0Non-residential care facility/unitn/an/a00.00.00.0Non-residential care facility/unitn/an/a10.20.00.0Occupational health settingn/an/a10.000.00.0Non-residential care facility/unitn/an/a10.210.2Physician private practice-single specialty group155.3267.24310.1Physician private practice-solo physician10.400.000.0Physician private practice-solo physician10.400.000.0Physician private practice-solo physician10.400.000.0Physician private practice-s							
Hospital (in-patient only)186.4205.6215.0Hospital (out-patient only)103.530.871.7Hospital ER/ED4516.05916.47317.2Hospital intensive care unit/critical care unit00.020.620.5Hospital operating room82.8133.6163.8Industrial facility31.110.330.7Insurance company00.000.000.0Long-term acute care facility/unitn/an/a00.000.0Long-term/extended care facility/unitn/an/a00.000.0Non-residential care facility/unitn/an/a00.000.0Occupational health settingn/an/a1231.11Other103.582.251.22Physician private practice-multi-specialty group155.3267.24310.1Physician private practice-slop physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility/unitn/an/a10.300.00Outigation private practice-slop physician196.74312.04410.4Primary care center/clinic							
Hospital (out-patient only) 10 3.5 3 0.8 7 1.7 Hospital ER/ED 45 16.0 59 16.4 73 17.2 Hospital intensive care unit/critical care unit 0 0.0 2 0.6 2 0.5 Hospital operating room 8 2.8 13 3.6 16 3.8 Industrial facility 3 1.1 1 0.3 3 0.7 Insurance company 0 0.0 0 0.0 0 0.0 0 0.0							
Hospital ER/ED4516.05916.47317.2Hospital intensive care unit/critical care unit00.020.620.5Hospital operating room82.8133.6163.8Industrial facility31.110.330.7Insurance company00.000.000.0Law firmn/an/a00.000.0Long-term acute care facility/unit10.420.610.2Long-term/extended care facility/unitn/an/a00.000.0Non-residential care facility/unitn/an/a00.000.0Otcupational health settingn/an/a123.3133.1Other103.582.251.22Physician assistant educational program31.120.610.2Physician private practice-single specialty group5820.67721.49121.5Physician private practice-single specialty group5820.67721.49121.5Physician private practice-single specialty group5820.6110.20.00.0Public health department (city, county or state)10.400.00.00.0State agency (other than state public health department)n/an/a10.300.00.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Hospital intensive care unit/critical care unit 0 0.0 2 0.6 2 0.5 Hospital operating room 8 2.8 13 3.6 16 3.8 Industrial facility 3 1.1 1 0.3 3 0.7 Insurance company 0 0.0 0 0.0 0 0.0 Law firm n/a n/a 0 0.0 0 0.0 0.0 Long-term acute care facility/unit n/a n/a n/a 0 0.0 0 0.0 Mental health addictions (retardation) facility/unit n/a n/a n/a 0 0.0 0 0.0							
Hospital operating room82.8133.6163.8Industrial facility31.110.330.7Insurance company00.00000Law firmn/an/a00.000Long-term acute care facility/unit10.420.610.2Long-term/extended care facility/unit00.0000.000.0Mental health addictions (retardation) facility/unit00.0000.000.000.000.000.000.000.000.000.00.000.000.000.000.000.000.000.000.000.000.000.0000.000.000.0000000000000000000000000000000000111 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Industrial facility 3 1.1 1 0.3 3 0.7 Insurance company 0 0.0 0 0.0 0 0.0 Law firm n/a n/a 0 0.0 0 0.0 Long-term acute care facility/unit 1 0.4 2 0.6 1 0.2 Long-term/extended care facility/unit n/a n/a n/a 0 0.0 0 0.0 Mental health addictions (retardation) facility/unit 0 0.0 0 0 0.0 0 0 0 0 0 0 0 0 0 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•						
Insurance company 0 0.0 0 0.0 0 0.0 Law firm n/a n/a n/a 0 0.0 0 0.0 Long-term acute care facility/unit 1 0.4 2 0.6 1 0.2 Long-term/extended care facility/unit n/a n/a 0 0.0 0 0.0 Mental health addictions (retardation) facility/unit 0 0.0 0 0.0 0 0.0 0 0.0							
Law firmn/an/an/a00.000.0Long-term acute care facility/unit10.420.610.2Long-term/extended care facility/unitn/an/a00.000.0Mental health addictions (retardation) facility/unit00.0000.00Non-residential care facility/unitn/an/an/a00.000.0Occupational health settingn/an/an/a123.3133.1Other103.582.251.2Physician assistant educational program31.120.610.2Physician private practice-multi-specialty group5820.67721.49121.5Physician private practice-solo physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility/unitn/an/a00.00.00.0Public health department (city, county or state)10.400.00.00.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/an/a10.20.00.0Supplemental staffing agencyn/an/an/a10.20.00.0Supplemental staffing agencyn/an/an/an	-		0.0				
Long-term acute care facility/unit 1 0.4 2 0.6 1 0.2 Long-term/extended care facility/unit n/a n/a 0 0.0 0 0.0 Mental health addictions (retardation) facility/unit 0 0.0 0 0.0 0 0.0 Non-residential care facility/unit n/a n/a n/a 0 0.0 0 0.0 Occupational health setting n/a n/a n/a 12 3.3 13 3.1 Other 10 3.5 8 2.2 5 1.2 Physician assistant educational program 3 1.1 2 0.6 1 0.2 Physician private practice-single specialty group 15 5.3 26 7.2 43 10.1 Physician private practice-solo physician 19 6.7 43 12.0 44 10.4 Primary care center/clinic 10 3.5 9 2.5 11 2.6 Prison/correctional facility/unit							
Long-term/extended care facility/unit n/a n/a n/a 0 0.0 0 0.0 Mental health addictions (retardation) facility/unit 0 0.0 0 0.0 0 0.0 Non-residential care facility/unit n/a n/a n/a 0 0.0 0 0.0 Occupational health setting n/a n/a n/a 12 3.3 13 3.1 Other 10 3.5 8 2.2 5 1.2 Physician assistant educational program 3 1.1 2 0.6 1 0.2 Physician private practice-single specialty group 58 20.6 7.7 21.4 91 21.5 Physician private practice-solo physician 19 6.7 43 12.0 44 10.4 Primary care center/clinic 10 3.5 9 2.5 11 2.6 Prison/correctional facility 0 0.0 2 0.6 1 0.2 Psychiatric inpatient facilit							
Mental health addictions (retardation) facility/unit 0 0.0 0 0.0 0 0.0 Non-residential care facility/unit n/a n/a n/a 0 0.0 0 0.0 Occupational health setting n/a n/a n/a 12 3.3 13 3.1 Other 10 3.5 8 2.2 5 1.2 Physician assistant educational program 3 1.1 2 0.6 1 0.2 Physician private practice-multi-specialty group 15 5.3 26 7.2 43 10.1 Physician private practice-solo physician 19 6.7 43 12.0 44 10.4 Primary care center/clinic 10 3.5 9 2.5 11 2.6 Prison/correctional facility 0 0.00 2 0.6 1 0.2 Psychiatric inpatient facility/unit n/a n/a n/a 0 0.0 0.0 Public health department (city, county or state)							
Non-residential care facility/unit n/a n/a n/a 0 0.0 0 0.0 Occupational health setting n/a n/a n/a 12 3.3 13 3.1 Other 10 3.5 8 2.2 5 1.2 Physician assistant educational program 3 1.1 2 0.6 1 0.2 Physician private practice-multi-specialty group 15 5.3 26 7.2 43 10.1 Physician private practice-single specialty group 58 20.6 77 21.4 91 21.5 Physician private practice-solo physician 19 6.7 43 12.0 44 10.4 Primary care center/clinic 10 3.5 9 2.5 11 2.6 Prison/correctional facility/unit n/a n/a n/a 0 0.0 0 0.0 Public health department (city, county or state) 1 0.4 0 0.0 0 0.0 0 0							
Occupational health setting n/a n/a n/a 12 3.3 13 3.1 Other 10 3.5 8 2.2 5 1.2 Physician assistant educational program 3 1.1 2 0.6 1 0.2 Physician private practice-multi-specialty group 15 5.3 26 7.2 43 10.1 Physician private practice-single specialty group 58 20.6 77 21.4 91 21.5 Physician private practice-solo physician 19 6.7 43 12.0 44 10.4 Primary care center/clinic 10 3.5 9 2.5 11 2.6 Prison/correctional facility/unit 0 0.0 2 0.6 1 0.2 Public health department (city, county or state) 1 0.4 0 0.0 0.0 Research Setting n/a n/a n/a 0 0.0 0.0 0.0 0.0 School-based health facility 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Other103.582.251.2Physician assistant educational program31.120.610.2Physician private practice-multi-specialty group155.3267.24310.1Physician private practice-single specialty group5820.67721.49121.5Physician private practice-solo physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility00.020.610.2Psychiatric inpatient facility/unitn/an/a00.000.0Public health department (city, county or state)10.400.000.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/an/a00.00.0Surgical center, freestanding145.0123.3112.6							
Physician assistant educational program31.120.610.2Physician private practice-multi-specialty group155.3267.24310.1Physician private practice-single specialty group5820.67721.49121.5Physician private practice-solo physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility00.020.610.2Psychiatric inpatient facility/unitn/an/a00.000.0Public health department (city, county or state)10.400.000.0State agency (other than state public health department)n/an/a10.300.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/an/an/a10.2Urgent care center/clinic, free-standing145.0123.3112.6	· _						
Physician private practice-multi-specialty group155.3267.24310.1Physician private practice-single specialty group5820.67721.49121.5Physician private practice-solo physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility00.020.610.2Psychiatric inpatient facility/unitn/an/a00.000.0Public health department (city, county or state)10.400.000.0Research Settingn/an/a10.300.00.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/an/a00.00.0Surgical center, freestandingn/an/an/a10.2Urgent care center/clinic, free-standing145.0123.3112.6							
Physician private practice-single specialty group5820.67721.49121.5Physician private practice-solo physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility00.020.610.2Psychiatric inpatient facility/unitn/an/a00.000.0Public health department (city, county or state)10.400.000.0Research Settingn/an/a10.300.00.0State agency (other than state public health department)n/an/a00.010.2Supplemental staffing agencyn/an/an/a00.00.00.0Surgical center, freestanding145.0123.3112.6							
Physician private practice-solo physician196.74312.04410.4Primary care center/clinic103.592.5112.6Prison/correctional facility00.020.610.2Psychiatric inpatient facility/unitn/an/a00.000.0Public health department (city, county or state)10.400.000.0Research Settingn/an/a10.300.0State agency (other than state public health department)n/an/a10.300.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/an/a00.00.0Surgical center, freestanding145.0123.3112.6							
Primary care center/clinic 10 3.5 9 2.5 11 2.6 Prison/correctional facility 0 0.0 2 0.6 1 0.2 Psychiatric inpatient facility/unit n/a n/a 0 0.0 0 0 0.0 Public health department (city, county or state) 1 0.4 0 0.0 0 0.0 Research Setting n/a n/a n/a 1 0.3 0 0.0 State agency (other than state public health department) n/a n/a 0 0.0 1 0.2 School-based health facility 1 0.4 0 0.0 1 0.2 Supplemental staffing agency n/a n/a n/a 0 0.0 0 0.0 Surgical center, freestanding n/a n/a n/a n/a 1 0.2 0.2 Urgent care center/clinic, free-standing 14 5.0 12 3.3 11 2.6				43			
Psychiatric inpatient facility/unit n/a n/a n/a 0 0.0 0 0.0 Public health department (city, county or state) 1 0.4 0 0.0 0 0.0 Research Setting n/a n/a 1 0.3 0 0.0 State agency (other than state public health department) n/a n/a 0 0.0 0 0.0 School-based health facility 1 0.4 0 0.0 1 0.2 Supplemental staffing agency n/a n/a n/a 0 0.0 0.0 Surgical center, freestanding n/a n/a n/a n/a 1 0.2 Urgent care center/clinic, free-standing 14 5.0 12 3.3 11 2.6			3.5				
Psychiatric inpatient facility/unit n/a n/a n/a 0 0.0 0 0.0 Public health department (city, county or state) 1 0.4 0 0.0 0 0.0 Research Setting n/a n/a 1 0.3 0 0.0 State agency (other than state public health department) n/a n/a 0 0.0 0 0.0 School-based health facility 1 0.4 0 0.0 1 0.2 Supplemental staffing agency n/a n/a n/a 0 0.0 0.0 Surgical center, freestanding n/a n/a n/a n/a 1 0.2 Urgent care center/clinic, free-standing 14 5.0 12 3.3 11 2.6	•					1	
Public health department (city, county or state)10.400.000.0Research Settingn/an/a10.300.0State agency (other than state public health department)n/an/a00.000.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/a00.000.0Surgical center, freestandingn/an/an/an/a10.2Urgent care center/clinic, free-standing145.0123.3112.6							
Research Settingn/an/a10.300.0State agency (other than state public health department)n/an/a00.000.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/a00.000.0Surgical center, freestandingn/an/an/an/a10.2Urgent care center/clinic, free-standing145.0123.3112.6						0	
State agency (other than state public health department)n/an/a00.000.0School-based health facility10.400.010.2Supplemental staffing agencyn/an/a00.000.0Surgical center, freestandingn/an/an/an/a10.2Urgent care center/clinic, free-standing145.0123.3112.6		n/a		1		0	
School-based health facility 1 0.4 0 0.0 1 0.2 Supplemental staffing agency n/a n/a 0 0.0 0 0.0 Surgical center, freestanding n/a n/a n/a n/a 1 0.2 Urgent care center/clinic, free-standing 14 5.0 12 3.3 11 2.6	-	-		0		0	
Supplemental staffing agency n/a n/a 0 0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Surgical center, freestandingn/an/an/an/a10.2Urgent care center/clinic, free-standing145.0123.3112.6		n/a	n/a	0			
Urgent care center/clinic, free-standing 14 5.0 12 3.3 11 2.6				n/a		1	
		282	100.0	359	100.0	424	100.0
No Response 1 1 2							

* These numbers represent survey respondents only.

Principal work settings for physician assistants are shown in Table 2.17. Over the time period, the two most common workplace settings were "hospitals" and "physician private practices." Of those who worked in a hospital, the emergency room was the most common setting. And of those who worked in private practice, a single specialty group was the most common setting.

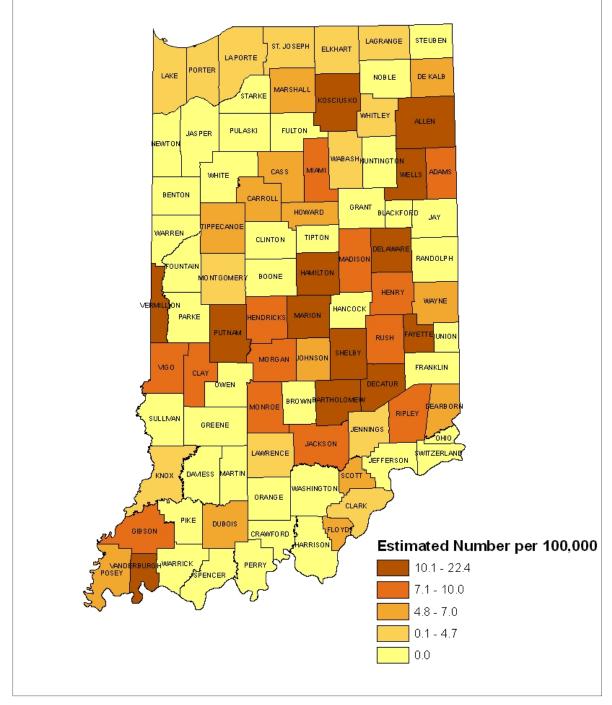
Chapter 3: Location of Physician Assistants by County in Indiana

The following maps display the estimated number of physician assistants in each county within the state of Indiana in 2008. As shown in Table 3.1, the number of physician assistants in each county was adjusted (weighted) for the specific response rate for the survey (77.6%) to ensure that the data shown in these maps is representative of the actual number of physician assistant population in each county. Thus, the counts of physician assistants used in these maps are *estimates* of the actual number of physician assistants in each county.



Map 3.1 shows that the number of physician assistants in Indiana counties is distributed roughly by population. Counties with the largest populations tended to have the most physician assistants. These included Allen (Fort Wayne), Bartholomew (Columbus), Delaware (Muncie), Hamilton (Carmel), Hendricks (Avon), Johnson (Greenwood), Lake (Gary), Madison (Anderson), Marion (Indianapolis), Monroe (Bloomington), St. Joseph (South Bend), and Vanderburgh (Evansville) counties. Forty counties had zero physician assistants.





Map 3.2 shows the estimated number of physician assistants per 100,000 population by county. Counties with the highest *ratios* per 100,000 included Allen (Fort Wayne), Bartholomew (Columbus), Decatur (Greensburg), Delaware (Muncie), Fayette (Connersville), Hamilton (Carmel), Kosciusko (Warsaw), Marion (Indianapolis), Putnam (Greencastle), Shelby (Shelbyville), Vanderburgh (Evansville) Vermillion (Newport) and Wells (Bluffton) counties.

	nated Number of Ph	-		-
County	Number	Weighted	Population	Ratio_per_100,000
Adams	2	3	33,985	7.6
Allen	61	79	350,523	22.4
Bartholomew	7	9	75,360	12.0
Benton	0	0	8,769	0.0
Blackford	0	0	13,093	0.0
Boone	0	0	55,027	0.0
Brown	0	0	14,550	0.0
Carroll	1	1	19,864	6.5
Cass	2	3	39,123	6.6
Clark	3	4	106,673	3.6
Clay	2	3	26,703	9.7
Clinton	0	0	34,069	0.0
Crawford	0	0	10,624	0.0
Daviess	0	0	30,147	0.0
DeKalb	2	3	41,884	6.2
Dearborn	2	3	49,985	5.2
Decatur	2	3	24,998	10.3
Delaware	10	13	114,685	11.2
Dubois	2	3	41,449	6.2
Elkhart	6	8	199,137	3.9
Fayette	2	3	24,265	10.6
Floyd	4	5	73,780	7.0
Fountain	0	0	17,041	0.0
Franklin	0	0	23,343	0.0
Fulton	0	0	20,319	0.0
Gibson	2	3	32,666	7.9
Grant	0	0	68,609	0.0
Greene	0	0	32,577	0.0
Hamilton	30	39	269,785	14.3
Hancock	0	0	67,282	0.0
Harrison	0	0	37,067	0.0
Hendricks	8	10	137,240	7.5
Henry	3	4	47,162	8.2
Howard	4	5	83,381	6.2
Huntington	0	0	37,570	0.0
Jackson	3	4	42,193	9.2
Jasper	0	0	32,544	0.0
Jay	0	0	21,412	0.0
Jefferson	0	0	32,820	0.0
Jennings	1	1	28,040	4.6
Johnson	7	9	139,158	6.5
Knox	1	1	38,057	3.4
Kosciusko	6	8	76,275	10.1
LaPorte	2	3	110,888	2.3
Lagrange	1	1	37,172	3.5
- apronac	<u>۲</u>	±	51,112	5.5

Table 3.1: Estimated Number of Physician Assistants by County and Per 100,000 Population

	-	-	n Assistants by County and Per 100,000 Population (Contd				
County	Number	Weighted	Population	Ratio_per_100,000			
Lake	18	23	493,800	4.7			
Lawrence	1	1	45,913	2.8			
Madison	9	12	131,501	8.8			
Marion	136	175	880,380	19.9			
Marshall	2	3	46,709	5.5			
Martin	0	0	9,969	0.0			
Miami	2	3	36,219	7.1			
Monroe	10	13	128,992	10.0			
Montgomery	1	1	37,805	3.4			
Morgan	5	6	70,668	9.1			
Newton	0	0	13,933	0.0			
Noble	0	0	47,601	0.0			
Ohio	0	0	5,773	0.0			
Orange	0	0	19,571	0.0			
Owen	0	0	22,375	0.0			
Parke	0	0	17,152	0.0			
Perry	0	0	18,929	0.0			
Pike	0	0	12,569	0.0			
Porter	5	6	162,181	4.0			
Posey	1	1	26,079	4.9			
Pulaski	0	0	13,712	0.0			
Putnam	3	4	37,183	10.4			
Randolph	0	0	25,801	0.0			
Ripley	2	3	27,400	9.4			
Rush	1	1	17,297	7.5			
Scott	1	1	23,627	5.5			
Shelby	4	5	44,186	11.7			
Spencer	0	0	20,111	0.0			
St. Joseph	8	10	266,680	3.9			
Starke	0	0	23,658	0.0			
Steuben	0	0	33,368	0.0			
Sullivan	0	0	21,328	0.0			
Switzerland	0	0	9,696	0.0			
Tippecanoe	6	8	164,237	4.7			
Tipton	0	0	15,923	0.0			
Union	0	0	7,157	0.0			
Vanderburgh	16	21	174,729	11.8			
Vermillion	2	3	16,234	15.9			
Vigo	6	8	105,968	7.3			
Wabash	1	1	32,706	3.9			
Warren	0	0	8,547	0.0			
Warrick	0	0	57,656	0.0			
Washington	0	0	27,949	0.0			
Wayne	3	4	67,795	5.7			
Wells	3	4	27,964	13.8			
White	0	0	23,800	0.0			
Whitley	1	1	32,667	3.9			
······································	±	±	52,007	5.5			

Chapter 4: Trends in the Physician Assistant Workforce

This chapter presents trends based on the 2004, 2006, and 2008 physician assistant surveys. Trend lines have been shown in each figure to provide an understanding of the changing supply of physician assistants. The numbers of physician assistants has been weighted based on response rates for the respective years. The weighting provides an *estimate* of the actual number of physician assistants practicing in Indiana each year, and not just the number of survey respondents. The trends presented include the number of licensed physician assistants in the state, the age of physician assistants, and the average hours worked.

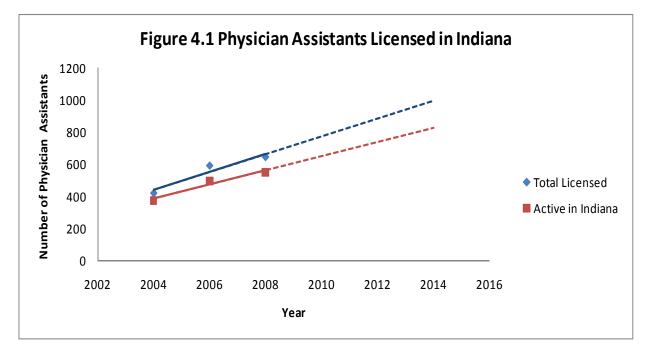


Figure 4.1 shows the total number of active physician assistants licensed in the state of Indiana. The number of Indiana physician assistants who renewed their licenses and who are actively practicing in Indiana has increased from 2004 to 2008.

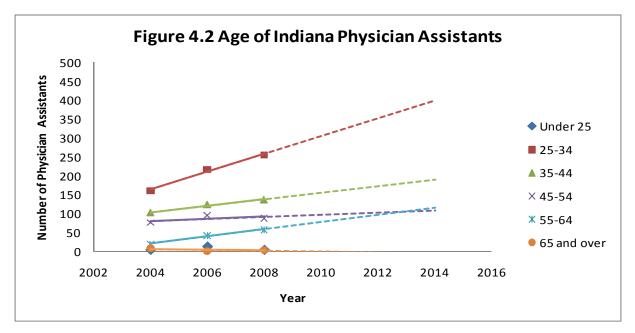


Figure 4.2 shows the number of physician assistants active in Indiana, by age group. There has been a large increase in the number of physician assistants between the ages of 25 and 34. The number of physician assistants in the 35-44, 45-54, and 55-64 year age groups also showed an increase, but to a lesser extent.

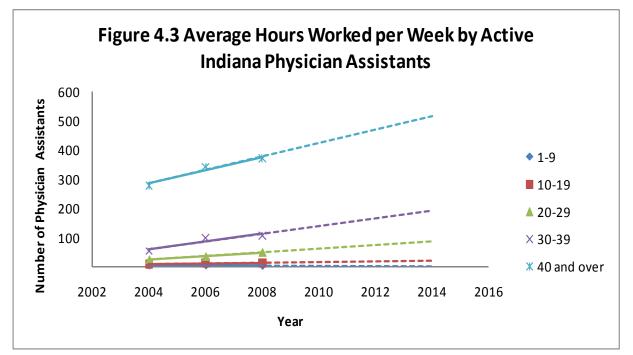


Figure 4.3 shows the number of physician assistants active in Indiana, by the average hours worked. The number of physician assistants working 40 or more hours per week is projected to grow more than the number working 20-39 hours per week. The number of physician assistants working 1-19 hours is projected to remain stable.

Chapter 5: Conclusions

Between 2004 and 2008, the number of physician assistants licensed in the state of Indiana increased, from 432 in 2004, to 593 in 2006, and to 655 in 2008. Each re-licensure year, approximately four fifths of all physician assistants renewed their licenses electronically and could complete the on-line re-licensure survey. Approximately three fourths of all licensed physician assistants responded to the survey in 2004, 2006, and 2008.

In 2008, more than four fifths of all respondents were between the ages of 25 and 54 years. Three fifths of the respondents were female. The large majority was white non-Hispanic. Spanish was the most frequently spoken second language, followed by French, Russian and sign language.

More than one half of all respondents indicated having a bachelor's degree as their highest physician assistant credential in 2008. Another one third reported having a master's degree. Nearly one half attended a physician assistant training program within the state of Indiana.

Almost all respondents spent most of their professional time in "direct patient care and patientcare-related" activities in 2008. Those who responded they worked 40 hours or more per week dropped slightly over the time period 2004 to 2008. Private-sector employers were the predominant employers of respondents, and more than one tenth of all respondents had more than one position or employer as a physician assistant. Surgery, emergency medicine, and family medicine were the most frequent specialty areas of their supervising physicians. The majority worked either in a hospital or private-practice setting. The number of physician assistants actively working in Indiana has been growing; however in 2008 there were forty counties within the state still without any of these professionals.

In 2008, counties with the largest populations tended to have the most physician assistants and the highest ratios per 100,000 population. There has been an increase in the number of Indiana physician assistants who renewed their licenses from 2004 to 2008. There has also been a large increase in the number of physician assistants between the ages of 25 and 34. The number of physician assistants noted to work 40 or more hours per week is projected to grow.

Appendix 1: Physician Assistant Survey Instruments

Appendix 1A: 2004 Indiana Physician Assistant Survey

Your answers to these questions will help the Indiana State Department of Health to respond to emergencies and to identify health professional shortages and geographic shortage areas. The survey is voluntary and will not affect the status of your license.

Thank you very much for your help.

- What is your current work status as physician assistant (PA)? Please choose only one. DROP-DOWN LIST.
 Actively working as a PA (patient care activities, teaching, administration, or research) Retired as a PA
 Temporarily inactive as a PA
- 2. If you are actively working as a PA in patient care, administration, teaching or research, please type the 5-digit zip code of your principal position location in the box below and go on to answer questions 3-14. If you are retired or temporarily inactive, please type the zip code of your mailing address in the box and then proceed to questions 8-14. Text box.
- In which activity do you spend most of your time? Please choose only one.
 DROP-DOWN LIST
 Direct patient care/patient care activities
 Administration
 Teaching
 Research
 Other
- 4. What is the major specialty of your supervising physician? **Please choose only one**. DROP-DOWN LIST
 - Allergy & Immunology Anesthesiology Dermatology Emergency Medicine Family Practice Gastroenterology General Internal Medicine General Practice Geriatrics Hematology/Oncology Infectious Diseases Internal Medicine-General

Internal Medicine/Pediatrics Nephrology **Obstetrics & Gynecology Occupational Medicine** Otolaryngology Neurology Pediatrics-Adolescent Medicine **Pediatrics-General Pediatrics** Pediatrics-Pediatric Cardiology Pediatrics-Pediatric Critical Care Medicine Pediatrics-Pediatric Emergency Medicine Pediatrics-Pediatric Endocrinology Pediatrics-Pediatric Gastroenterology Pediatrics-Pediatric Hematology/Oncology Pediatrics-Pediatric Infectious Disease Pediatrics-Pediatric Medical Toxicology Pediatrics-Pediatric Nephrology Pediatrics-Pediatric Pulmonology Pediatrics-Pediatric Rheumatology Pediatrics-Pediatric Sports Medicine Physical Medicine & Rehabilitation Public Health Pulmonology Rheumatology Sports Medicine Surgery-Critical Care Surgery-Cardiothoracic Surgery-Cardiovascular Surgery-Colon & Rectal Surgery-General Surgery-Hand Surgery-Head and Neck Surgery-Neurological Surgery-Orthopedic Surgery-Pediatric Surgery-Pediatric Cardiothoracic Surgery-Pediatric Neurological Surgery-Pediatric Orthopedic Surgery-Plastic Surgery-Trauma Surgery-Vascular Surgery-Other Surgical Subspecialty Urology Urology-Pediatric Other Specialty

Not Applicable

- 5. What type of employer do you work for? Please choose only one. DROP-DOWN LIST Private sector employer A branch of the military (Army, Navy, etc.) Federal government State government Local government Other type of employer
- 6. What type of setting do you spend most of your time in? **Please choose only one.** DROP-DOWN LIST

Ambulatory care setting (surg./other)

College health facility Community health center/clinic Continuing education/staff development Drug company Home health care agency Hospice Hospital (in- & out-patient) Hospital (in-patient only) Hospital (out-patient only) Hospital ER/ED Hospital operating room Hospital intensive care/critical care unit Industrial facility Insurance company Longterm care facility/unit Mental health/addictions facility/unit Physician assistant educational program Physician private practice-solo physician Physician private practice-single specialty group Physician private practice-multi-specialty group Primary care center/clinic Prison/Correctional facility Public health department School-based health facility Urgent care center/clinic

- Other
- How many hours per week on average do you spend in ALL activities as a physician assistant?
 Please choose only one.
 DROP-DOWN LIST
 1-9
 10-19
 20-29

30-39 40 or more

- 8. Would you like to receive information on the Indiana Medical Reserve Corps (MRC)? MRCs will coordinate the skills of practicing and retired physicians, nurses, and other health professionals who volunteer during emergency situations. If you answer "Yes," we may contact you using your HPB address information. Yes No
- Would you be willing to provide volunteer services in case of a bio-terrorism event or other public health emergency? If you answer "Yes," we may contact you using your HPB address information.
 Yes No
- 10. Are you fluent in Spanish? Yes No
- 11. Are you fluent in any Asian languages? Yes No
- 12. What is your sex? Female Male
- Which of the following best describes your race? Please choose only one. White
 Black/African American
 Asian/Pacific Islander
 American Indiana/Native Alaskan
 Multi-racial
 Other
- 14. Are you of Hispanic origin? Yes No

Appendix 1B: 2006 Indiana Physician Assistant Survey

Your answers to these questions will help the Indiana State Department of Health to respond to emergencies and to identify health professional shortages and geographic shortage areas. The survey is voluntary and will not affect the status of your license or your renewal.

Thank you very much for your help.

- What is your current work status as physician assistant (PA)? Please choose only one. DROP-DOWN LIST.
 Actively working as a PA (patient care activities, teaching, administration, or research) Retired as a PA
 Temporarily inactive as a PA
- 2. If you are actively working as a PA, please type the 5-digit zip code of your principal employment location in the box adjacent to this question and proceed to questions 3-13. "Principal employment location" is the location at which you work the most hours as a PA. If you are retired, or temporarily inactive, please type the zip code of your residence and then proceed to questions 9-13. Text box.
- In which activity do you spend most of your professional time? Please choose only one. DROP-DOWN LIST
 Direct patient care/patient care activities
 Administration
 Teaching
 Research
 Other
- 4. What is the major specialty of your supervising physician at your principal PA position (the position in which you spend the most time)? **Please choose only one**.

DROP-DOWN LIST Addiction Medicine Allergy & Immunology Anesthesiology Cardiology Cardiology-Interventional Critical Care Dermatology Emergency Medicine Endocrinology Family Practice Gastroenterology General Internal Medicine General Practice Geriatrics

Hematology/Oncology Infectious Diseases Internal Medicine-General Internal Medicine/Pediatrics Nephrology Neurology Obstetrics & Gynecology **Occupational Medicine** Oncology Otolaryngology Neurology Pain Management Pathology Pediatrics-Adolescent Medicine **Pediatrics-General Pediatrics** Pediatrics-Pediatric Cardiology Pediatrics-Pediatric Critical Care Medicine Pediatrics-Pediatric Emergency Medicine Pediatrics-Pediatric Endocrinology Pediatrics-Pediatric Gastroenterology Pediatrics-Pediatric Hematology/Oncology Pediatrics-Pediatric Infectious Disease Pediatrics-Pediatric Medical Toxicology Pediatrics-Neonatal-Perinatal Pediatrics-Pediatric Nephrology Pediatrics-Pediatric Neurology Pediatrics-Pediatric Oncology Pediatrics-Pediatric Pulmonology Pediatrics-Pediatric Rheumatology Pediatrics-Pediatric Sports Medicine Physical Medicine & Rehabilitation Psychiatry Public Health Pulmonology Radiology Radiology-Interventional Rheumatology **Sports Medicine** Surgery-Critical Care Surgery-Cardiothoracic Surgery-Cardiovascular Surgery-Colon & Rectal Surgery-General Surgery-Hand Surgery-Head and Neck

Surgery-Neurological Surgery-Orthopedic Foot & Ankle Surgery-Orthopedic-General Surgery-Orthopedic-Hand Surgery-Orthopedic-Joints Surgery-Orthopedic-Spine Surgery-Orthopedic-Sports Surgery-Orthopedic-Trauma Surgery-Pediatric Surgery-Pediatric Cardiothoracic Surgery-Pediatric Neurological Surgery-Pediatric Orthopedic Surgery-Plastic Surgery-Trauma Surgery-Vascular Surgery-Other Surgical Subspecialty Urology Urology-Pediatric Other Specialty Not Applicable

- 5. What type of employer do you work for in your principal PA position? Please choose only one. DROP-DOWN LIST Private sector employer A branch of the military (Army, Navy, etc.) Federal government State government Local government Other type of employer
- 6. In what type of setting do you spend most of your time at your principal PA position? Please choose only one. **DROP-DOWN LIST** Adult day care Ambulatory care setting (surg./other) Assisted living facility/unit College health facility Community health center/clinic Community mental health center Community substance abuse agency Continuing education/staff development Drug company Home health care agency Hospice Hospital (in- & out-patient) Hospital (in-patient only) Hospital (out-patient only)

Hospital ER/ED Hospital intensive care/critical care unit Hospital operating room Industrial facility Insurance company Law firm Long term acute care facility/unit Long term/extended care facility/unit Mental retardation facility/unit Non-residential care facility/unit (e.g. elder day care) Occupational health setting Physician assistant educational program Physician private practice-solo physician Physician private practice-single specialty group Physician private practice-multi-specialty group Primary care center/clinic Prison/correctional facility Psychiatric inpatient facility/unit Public health department (city, county or state) Research setting State agency (other than state public health department) School-based health facility Supplemental staffing agency Surgical center, freestanding Urgent care center/clinic, free-standing Other

How many hours per week on average do you spend in ALL activities as a physician assistant?
 Please choose only one.

DROP-DOWN LIST 1-9 10-19 20-29 30-39 40 or more

- B. Do you hold more than one position as a PA (more than one employer)?
 DROP-DOWN LIST
 Yes
 No
- Would you be willing to provide services in case of a bio-terrorism event or other public health emergency? If you answer "Yes," we may contact you using your PLA contact information.
 DROP-DOWN LIST
 Yes No

- 10. Would you be willing to attend specialized training related to public health emergency response?
 DROP-DOWN LIST
 Yes No
- 11. Are you fluent in any of the following languages? PLEASE SELECT ALL THAT APPLY. DROP-DOWN LIST

Arabic Chinese Filipino French German Greek Hindi Italian Japanese Korean Polish Russian Spanish Tagalog Thai Turkish

- 12. What is your <u>highest</u> PA credential/degree? Please choose only one. DROP-DOWN LIST
 Certificate of completion
 Associate degree
 Bachelor's degree
 Master's degree
- 13. Where is the location of the institution that granted your highest PA credential? Please choose only one.
 DROP-DOWN LIST
 Methodist Hospital and/or Butler University--Indiana

Methodist Hospital and/or Butler University--Indiana University of St. Francis—Indiana Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming Non-U.S. PA educational program

Appendix 1C: 2008 Physician Assistant Survey

Your answers to these questions will help the Indiana State Department of Health to respond to emergencies and to identify health professional shortages and geographic shortage areas. The survey is voluntary and will not affect the status of your license or your renewal. Thank you very much for your help.

- What is your current work status as physician assistant (PA)? Please choose only one. DROP-DOWN LIST
 Actively working as a PA (patient care activities, teaching, administration, or research) Retired as a PA
 Temporarily inactive as a PA
- 2. If you are actively working as a PA, please type the 5-digit zip code of your principal employment location in the box adjacent to this question and proceed to questions 3-16. "Principal employment location" is the location at which you work the most hours as a PA. If you are retired, or temporarily inactive, please type the zip code of your residence and then proceed to questions 9-16. TEXT BOX
- Do you hold more than one position as a PA (more than one employer)? DROP-DOWN LIST Yes No
- In which activity do you spend most of your professional time? Please choose only one. DROP-DOWN LIST
 Direct patient care/patient care activities
 Administration
 Teaching
 Research
 Other
- 5. What is the major specialty of your supervising physician at your principal PA position (the position in which you spend the most time)? **Please choose only one**.

DROP-DOWN LIST Addiction Medicine (ADM) Adolescent Medicine (AMI) Aerospace Medicine (AM) Allergy (A) Allergy & Immunology (AI) Allergy & Immunology-Diagnostic Laboratory Immunology (ALI) Alternative Medicine (ALTM) Anesthesiology (AN) Anesthesiology (AN) Anesthesiology-Pain Management (APM) Anesthesiology-Pediatric (PAN)

Cardiology-Cardiovascular Disease (CD) Cardiology-Cardiac Electrophysiology (ICE) Cardiology-Interventional Cardiology (IC) Cardiology-Nuclear Cardiology (NC) Critical Care Medicine (CCM) Dermatology (D) Dermatology-Clinical and Laboratory Dermatological Immunology (DDL) Dermatology-Dermatological Immunology/Diagnostic and Laboratory Immunology (DLAB) Dermatology-Dermatopathology (DMP) Dermatology-Pediatric Dermatology (PDD) Dermatology-Procedural Dermatology (PRD) Diabetes (DIA) Emergency Medicine (EM) Emergency Medicine-Medical Toxicology (ETX) Emergency Medicine-Pediatric Emergency Medicine (PE) **Emergency Medicine-Sports Medicine (ESM)** Endocrinology, Diabetes and Metabolism (END) Epidemiology (EP) Family Practice/Family Medicine (FM) Family Practice-Adolescent Medicine (AMF) Family Practice-Geriatric Medicine (FPG) Family Practice-Sports Medicine (FSM) Gastroenterology (GE) General Internal Medicine (IM) General Practice (GP) General Preventive Medicine (GPM) Genetics-Clinical Biochemical Genetics (CBG) Genetics-Clinical Cytogenetics (CCG) Genetics-Clinical Genetics (CG) Genetics-Clinical Molecular Genetics (CMG) Genetics-Medical Genetics (MG) Genetics-Molecular Genetic Pathology (MGG) Geriatrics (GERI) Gynecological Oncology (GO) Gynecology (GYN) Hematology (HEM) Hematology/Oncology (HO) Hepatology (HEP) Hospitalist (HOS) Immunology (IG) Infectious Diseases (ID) Internal Medicine-General Internal Medicine (IM) Internal Medicine-Cardiac Electrophysiology (ICE) Internal Medicine-Diagnostic Laboratory Immunology (ILI) Internal Medicine-Geriatrics (IMG)

Internal Medicine-Pediatrics (MPD) Internal Medicine-Sports Medicine (ISM) Legal Medicine (LM) Maternal & Fetal Medicine (MFM) Medical Informatics Medical Management (MDM) Medical Microbiology (MM) Neonatal-Perinatal Medicine (NPM) Nephrology (NEP) Nephrology-Pediatric Nephrology (PN) Neurology (N) Neurology-Child Neurology (CHN) Neurology-Clinical Neurophysiology (CN) Neurology-Neurodevelopmental Disabilities (NDN) Neurology-Neurology/Diagnostic Radiology/Neuroradiology (NRN) Neurology-Neuromuscular Medicine Neurology-Neuropsychiatry (NUP) Neurology-Neuroradiology (RNR) Neurology-Vascular Neurology (VN) Neuroradiology-Endovascular Surgical (ESN) Nuclear Medicine (NM) Nuclear Radiology (NR) Nutrition (NTR) Obstetrics & Gynecology (OBG) Obstetrics & Gynecology-Critical Care (OCC) Obstetrics (OBS) Occupational Medicine (OM) Oncology (ON) Ophthalmology (OPH) Ophthalmology-Pediatric Ophthalmology (PO) Orthopedic Surgery (ORS) Orthopedic Surgery-Foot and Ankle (OFA) Orthopedic Surgery-Hand Surgery (HSO) Orthopedic Surgery-Orthopedic Musculoskeletal Oncology (OMO) Orthopedic Surgery-Orthopedic Adult Reconstructive Surgery (OAR) Orthopedic Surgery-Pediatric Orthopedic Surgery (OP) Orthopedic Surgery-Sports Medicine (OSM) Orthopedic Surgery-Surgery of the Spine (OSS) Orthopedic Surgery-Trauma (OTR) Osteopathic Manipulative Medicine (OMM) Otolaryngology (OTO) Otolaryngology-Pediatric Otolaryngology (PDO) Otology-Neurotology (NO) Pain Medicine (PMD) Palliative Medicine (PLM) Pathology-Anatomic Pathology (ATP)

Pathology-Anatomic/Clinical Pathology (PTH) Pathology-Bloodbanking (BBK) Pathology-Chemical Pathology (PCH) Pathology-Clinical Pathology (CLP) Pathology-Cytopathology (PCP) Pathology-Forensic Pathology (FOP) Pathology-Hematology (HMP) Pathology-Medical Microbiology Pathology-Molecular Genetic Pathology (MGP) Pathology-Neuropathology (NP) Pathology-Pediatric Pathology (PP) Pathology-Selective Pathology (SP) Pediatrics-General Pediatrics (PD) Pediatrics-Adolescent Medicine (ADL) Pediatrics-Critical Care (CCP) Pediatrics-Developmental Behavioral Pediatrics (DBP) Pediatrics-Neonatal-Perinatal Medicine (NPM) Pediatrics-Neurodevelopmental Disabilities (NDP) Pediatrics-Pediatric Allergy (PDA) Pediatrics-Pediatric Cardiology (PDC) Pediatrics-Pediatric Cardiothoracic Surgery (PCS) Pediatrics-Pediatric Dermatology (PDD) Pediatrics-Pediatric Diagnostic Laboratory Immunology (PLI) Pediatrics-Pediatric Emergency Medicine (PEM) Pediatrics-Pediatric Endocrinology (PDE) Pediatrics-Pediatric Gastroenterology (PG) Pediatrics-Pediatric Hematology/Oncology (PHO) Pediatrics-Pediatric Infectious Diseases (PDI) Pediatrics-Pediatric Medical Toxicology (PDT) Pediatrics-Pediatric Otolaryngology (PDO) Pediatrics-Pediatric Pathology (PP) Pediatrics-Pediatric Pulmonology (PDP) Pediatrics-Pediatric Radiology (PDR) Pediatrics-Pediatric Rehabilitation Medicine (RPM) Pediatrics-Pediatric Rheumatology (PPR) Pediatrics-Pediatric Sports Medicine (PSM) Pediatrics-Pediatric Surgery (PDS) Pharmaceutical Medicine (PHM) Pharmacology-Clinical Pharmacology (PA) Phlebology (PHL) Physical Medicine & Rehabilitation (PM) Physical Medicine and Rehabilitation-Spinal Cord Injury (SCI) Physical Medicine and Rehabilitation-Sports Medicine (PMM) Plastic Surgery (PS) Plastic Surgery-Facial Plastic Surgery (FPS) Plastic Surgery-Head & Neck (PSH)

Preventive Medical Toxicology (PTX) Proctology (PRO) Psychiatry (P) Psychiatry-Addiction (ADP) Psychiatry-Child Psychiatry (CHP) Psychiatry-Forensic Psychiatry (PFP) Psychiatry-Geriatric Psychiatry (PYG) Psychiatry-Pain Medicine (PPN) Psychiatry-Psychoanalysis (PYA) Psychiatry-Psychosomatic Medicine (PYM) Public Health/General Preventive Medicine (PHP) Pulmonary Critical Care Medicine (PCC) Pulmonary Disease (PUD) Radiation Oncology (RO) Radiology (R) Radiology-Abdominal Radiology (AR) Radiology-Cardiothoracic Radiology (CTR) Radiology-Diagnostic Radiology (DR) Radiology-Musculoskeletal Radiology(MSR) Radiology-Neuroradiology (RNR) Radiology-Neuroradiology-Endovascular Surgical (ESN) Radiology-Nuclear Radiology (NR) Radiology-Pediatric Radiology (PDR) Radiology-Radiological Physics (RP) Radiology-Vascular & Interventional Radiology (VIR) Reproductive Endocrinology (REN) Rheumatology (RHU) Sclerotherapeutic Pain Management (SPMO) Sleep Medicine (SME) Spinal Cord Injury Medicine (SCI) Surgery-Abdominal (AS) Surgery-Colon & Rectal (CRS) Surgery-Cosmetic (CS) Surgery-Craniofacial Surgery (CFS) Surgery-Critical Care (CCS) Surgery-Dermatologic Surgery (DS) Surgery-General Surgery (GS) Surgery-Hand Surgery (HS) Surgery-Head & Neck Surgery (HNS) Surgery-Neurological Surgery (NS) Surgery-Neuroradiology-Endovascular Surgical (ESN) Surgery-Oral And Maxillofacial Surgery (OMF) Surgery-Pediatric Cardiothoracic Surgery (PCS) Surgery-Pediatric Neurological Surgery (NSP) Surgery-Pediatric Orthopedic Surgery (OP) Surgery-Pediatric Surgery (PDS)

Surgery-Plastic Surgery (PS) Surgery-Surgical Oncology (SO) Surgery-Thoracic Surgery (TS) Surgery-Transplant Surgery (TTS) Surgery-Traumatic Surgery (TRS) Surgery-Urological Surgery (U) Surgery-Vascular Surgery (VS) Undersea Medicine and Hyperbaric Medicine (UM) Undersea and Hyperbaric Medicine-Emergency Medicine (UME) Urgent Care Medicine (UCM) Urology (U) Urology (U) Urology-Pediatric Urology (UP) Vascular Medicine (VM) Vascular Neurology (VN) Other Specialty (OS)

6. What type of employer do you work for in your principal PA position? Please choose only one. DROP-DOWN LIST Private sector employer A branch of the military (Army, Navy, etc.) Federal government State government Local government Other type of employer

7. In what type of setting do you spend most of your time at your principal PA position? Please choose only one. **DROP-DOWN LIST** Adult day care Ambulatory care setting (surg./other) Assisted living facility/unit College health facility Community health center/clinic Community mental health center Community substance abuse agency Continuing education/staff development Drug company Home health care agency Hospice Hospital (in- & out-patient) Hospital (in-patient only) Hospital (out-patient only) Hospital ER/ED Hospital intensive care/critical care unit Hospital operating room Industrial facility

Insurance company

Law firm

Long term acute care facility/unit Long term/extended care facility/unit Mental retardation facility/unit Non-residential care facility/unit (e.g. elder day care) Occupational health setting Physician assistant educational program Physician private practice-solo physician Physician private practice-single specialty group Physician private practice-multi-specialty group Primary care center/clinic Prison/correctional facility Psychiatric inpatient facility/unit Public health department (city, county or state) Research setting State agency (other than state public health department) School-based health facility Supplemental staffing agency Surgical center, freestanding Urgent care center/clinic, free-standing Other

How many hours per week on average do you spend in ALL activities as a physician assistant?
 Please choose only one.
 DROP-DOWN LIST

1-9 10-19 20-29 30-39 40 or more

- 9. Would you be willing to provide services in case of a bio-terrorism event or other public health emergency? If you answer "Yes," we may contact you using your PLA contact information. DROP-DOWN LIST Yes No
- Do you have the following type(s) of medical experience? Please select all that apply.
 DROP-DOWN LIST
 Military medical experience
 Disaster medical experience
- Are you fluent in any of the following languages? Please select all that apply.
 DROP-DOWN LIST
 African languages
 Arabic
 Burmese

Cambodian Chinese Filipino French German Greek Hindi Italian Japanese Korean Pennsylvania Dutch Polish Portuguese Russian Sign language Spanish Tagalog Thai Turkish

- 12. What is your <u>highest</u> PA credential/degree? **Please choose only one.** DROP-DOWN LIST Certificate of completion Associate degree Bachelor's degree Master's degree
- Where is the location of the institution that granted your highest PA credential? Please choose only one.
 DROP-DOWN LIST

Methodist Hospital and/or Butler University--Indiana University of St. Francis-Indiana Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Iowa Kansas

Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming Non-U.S. PA educational program

 Which of the following best describes your race? Please select only one. DROP-DOWN LIST
 White
 Black/African American
 Asian/Pacific Islander
 American Indian/Native Alaskan
 Multi-racial
 Other

15. Are you of Hispanic origin? DROP-DOWN LIST Yes No

16. What is your sex?DROP-DOWN LISTFemaleMale

Appendix 2: Comparison Chart of Variable Availability in Each Dataset

Variable Availability from 2004 to 2008			
Variable	2008	2006	2004
E-survey response (presentation varies year to year)	х	х	х
Physician assistant license status	х	х	х
Work status	х	х	х
Principle employment location (zip, county, state)	х	х	х
Age	х	х	х
Sex	х		х
Race	х		х
Ethnicity	х		х
Language fluency	х	х	Spanish only
Highest PA credential/degree	х	х	
Location of PA education program	х	х	
Professional activities	х	х	х
Average hours worked	х	х	х
Primary type of employer	х	х	х
More than one position/employer	х	х	
Major speciality of supervising physician (listed specialties changed over time)	х	Х	х
Principle work settings (listed settings changed over time)	Х	Х	х

Appendix 3: Proposed Changes to the 2010 Indiana Physician Assistant Re-Licensure Survey

With the help of the advisory board, a few suggestions were made to improve the 2010 survey to gather critical data on:

- 1. Practice location—provide options to add three practice locations
- 2. Supervising physician—do you have more than one supervising physician? Add an option for primary, secondary and tertiary supervising physician(s) each.
- 3. Average hours worked—add more options to the existing categories
- 4. Add more questions to the "education and training" sections, e.g.,
 - a. Where did you get your entry level PA training?
 - b. What is your highest PA credential/degree?
 - c. Where is the location of the institution that granted your highest PA credential?
 - d. Do you have a post-graduate training in...emergency medicine, surgery, oncology etc?
 - e. What is your highest degree in any field?
- 5. Capture more PA educators, i.e., faculty who work full-time in PA education and part-time in clinical practice