

# 2009 Indiana Physician Re-Licensure Survey Report

Produced by:

The 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

December 2010

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**Bowen Research Center**  
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## **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 through the Indiana State Department of Health.

An advisory committee provided direction and insights regarding the data analysis and report generation:

Adele Lash, Communications Director, Indiana State Medical Association  
Deborah Allen, MD, Otis Bowen Professor, Director- Bowen Research Center  
Ed Langston, MD, AMA Board Member, American health Network Family Practice Center  
Jennifer Bruner, Staff Attorney, Indiana State Department of Health  
Jon Marhenke, MD, President Indiana State Medical Association  
Kristen Kelley, Director, Medical Licensing Board of Indiana, Indiana Professional Licensing Agency  
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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.

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## **Executive Summary**

### ***Introduction***

Since 1997, licenses were renewed by mail and a paper questionnaire was included with the physician license renewal form. Beginning in 2003, Indiana Professional Licensing Agency (IPLA) began on-line license renewals. Since then, all Indiana physicians who renewed their license on-line were asked to complete an on-line survey instrument. This report summarizes the responses to the 2009 Indiana Physician Survey and compares them to the results of prior physician surveys reported in the *Indiana Physician Survey Databook* and the *Indiana Physician Re-Licensure Survey* reports.

### ***Methods***

The Indiana State Department of Health provided the Indiana University Bowen Research Center the Indiana physician re-licensure survey data file. PASW (Predictive Analytics Software) statistical program version 18.0 was used to perform the data analyses. Only those physicians who renewed their licenses online had the opportunity to complete the on-line survey.

### ***Survey Response Rates***

A total of 21,060 (in 2003), 22,351 (in 2005), 25,353 (in 2007), and 26,074 (in 2009) physicians renewed their Indiana licenses. Of those, 72.1% (in 2003), 57.1% (in 2005), 79.1% (in 2007), and 83.3% (in 2009) renewed their licenses on-line and responded to at least one question on the survey.

### ***Actively Practicing***

Four-fifths (81.1%) of the physicians responded that they were active in medicine in 2009. Of those, 90.6% were actively seeing patients, 2.5% were in training as a medical resident/fellow and 3.6% were active in medicine but not seeing patients.

### ***Demographic Characteristics***

The age distribution of actively working physicians in Indiana showed that one-third of the physicians were within the 35-44 age group (28.1%) and 45-54 age group (32.0%). Only one-tenth were under 35 (11.0%) or over the age of 65 (7.8%).

### ***Residency and Fellowship Training***

Over one-half (55.5%) of the physicians who were active in Indiana received their residency and/or fellowship training in another U.S. state. Two-fifths (41.6%) of the physicians received their training in Indiana.

### ***Employment Characteristics***

One-third (33.4%) of the physicians spent 40-49 hours in direct patient care related activities. Over two-fifths (43.4%) of the physicians spent 50 or more hours in direct patient care related activities. Over four-fifths (84.6%) physicians saw or accepted Medicaid patients. The three major specialties with the largest number of physicians were family medicine/general practice (18.0%), general internal medicine (8.2%), and anesthesiology (7.3%). Over one-third of those who provided prenatal services (36.2%) and delivered babies (36.6%) were family practice physicians.

### ***Primary Care versus Non-Primary Care Physicians***

Results from 2003 to 2009 show an increase in the number of primary care (18.0% in 2003 and 29.1% in 2009) and non-primary care (21.5% in 2003 and 28.9% in 2009) physicians who were 55 and older. There were more non-primary care physicians (81.9%) actively seeing patients full time than primary care physicians (78.7%). There were more non-primary care physicians (45.3%) who spent 50 or more hours in direct patient-care related activities than primary care physicians (38.0%). There were more primary care physicians (12.7%) who provided prenatal care and delivered babies than non-primary care physicians (7.0%).

### ***Location of Physicians in Indiana***

Counties with the largest populations tended to have the most physicians and the highest ratios per 100,000 population.

### ***Conclusions***

The number of licensed physicians actively practicing in Indiana has increased and the majority worked in direct patient-care related activities. A large number of physicians worked over 40 hours per week. Family medicine/general practice, general internal medicine, and anesthesiology were the three specialties with the largest number of respondents.

***DISCLAIMER: Care should be taken in utilizing these data or conclusions drawn in this report for statistical or planning purposes. As reflected in the response rates for each renewal period, the datasets are incomplete. Some physicians did not renew their license on-line and among those who did, participation in the on-line survey was voluntary. Consequently, the numbers reported in chapters 2 and 3 undercount the actual number of physicians; however, the data shown in chapters 4 and 5 have been adjusted to account for the survey non-respondents. The proportions shown in all four chapters (2 to 5) are presumed to be representative of all physicians.***

## **Chapter 1: Introduction**

Indiana has historically recorded fewer physicians per population than the recommended national guidelines. Thus, an accurate understanding of the personal and professional characteristics of physicians licensed in Indiana is critical to developing and managing effective programs to recruit and retain physicians where they are most needed in the state. The findings from this report may be used to identify physician shortage areas, develop more recruitment and retention strategies, and plan additional locations for training residents and fellows within the state.

The Indiana State Department of Health (ISDH) and the Indiana Professional Licensing Agency (IPLA) collaborated in implementing the Indiana physician re-licensure surveys. In 1997 and 2001, licenses were renewed by mail and an accompanying paper questionnaire was included. Beginning in 2003, IPLA began accepting and promoting on-line license renewals. Since then all physicians who renewed their license on-line were asked to complete a voluntary on-line survey instrument.

The 2009 Indiana physician re-licensure survey instrument included items to address current work status, primary practice site, activities performed in the practice, average hours worked, practice time spent in Indiana, and demographics. Copies of the 2003, 2005, 2007 and 2009 Indiana physician re-licensure survey instruments are included in *Appendix 1*.

This report summarizes the responses to the 2009 Indiana physician re-licensure surveys and compares them to the results of the prior physician surveys (1997, 2001, 2003, 2005, 2007 and 2009).

### **Inclusion Criteria**

Only those who renewed their license electronically and answered at least one question on the survey, whose licenses were active or on probation, and those who were actively working were included in this report.

### **Data Analysis**

The Indiana University Department of Family Medicine's Bowen Research Center staff received from ISDH the 2009 Indiana physician re-licensure survey data file and a data dictionary to describe the data in the datasets. The re-licensure survey records were linked to the licensure records by the Bowen Research Center team. The PASW (Predictive Analytics Software, formerly SPSS) statistical program version 18.0 was used to analyze the data compiled from the online survey and licensure information about physicians from the IPLA database.

## Response Rates

Table 1.1 License Renewal\*

Online	2003**		2005**		2007**		2009	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Did not renew electronically	5,869	27.9	9,583	42.9	5,311	20.9	4,354	16.7
Renewed electronically and responded to at least one question	15,191	72.1	12,768	57.1	20,042	79.1	21,720	83.3
Total	21,060	100.0	22,351	100.0	25,353	100.0	26,074	100.0

\*These numbers represent survey respondents only.

\*\*Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Table 1.1 shows the total number of physicians who renewed their license. The number of total renewals increased from 21,060 in 2003 to 26,074 in 2009. Of those physicians who renewed their license in 2009, 83.3% renewed them on-line and responded to at least one question on the survey instrument.

## Current Work Status in Medicine

Table 1.2 Survey Respondent's Current Work Status in Medicine\*

Current Work Status	2009	
	Number	Percent
Physician actively seeing patients - Full time	9,140	81.1
Physician actively seeing patients - Part time	1,072	9.5
Physician in training (medical resident/fellow)	282	2.5
Physician active in medicine, locum tenens ONLY	87	0.8
Physicians active in medicine, not seeing patients	402	3.6
Retired from active medical practice	195	1.7
Inactive in medicine	90	0.8
Total	11,268	100.0
Missing	17	

\*These numbers represent survey respondents only.

As presented in Table 1.2, 90.6% of the physicians were actively seeing patients, 2.5% were in training as a medical resident/fellow, and 3.6% were active in medicine, but not seeing patients.

## Organization of this Report

The following chapters in this report present the results of several different analyses of the physician survey data (1997, 2001, 2003, 2005, 2007 and 2009). *Chapter 2* provides tables summarizing the responses to all of the survey questions. *Chapter 3* compares primary care physician respondents to non-primary care physician respondents. *Chapter 4* presents maps of Indiana showing the number of physicians and the ratio of physicians to population in each county. *Chapter 5* summarizes time trends in the physician workforce and shows projections into the future. Finally, *Chapter 6* summarizes the results of the data analysis.

## Appendices

The appendices at the end of the report include the Indiana physician re-licensure survey instruments used in 2003 (*Appendix 1A*), 2005 (*Appendix 1B*), 2007 (*Appendix 1C*), and 2009 (*Appendix 1D*). *Appendix 2* includes a comparison chart to show survey items present in the 2009 survey but not in the previous surveys.



## Chapter 2: Responses to the 2009 Indiana Physician Re-licensure Surveys

This chapter summarizes responses to items on the 2009 Indiana physician re-licensure survey. Responses from the 1997, 2001, 2003, 2005, and 2007 surveys are also summarized for those items that were worded the same on the 2009 survey instrument. The percentages shown are believed to be representative of all physicians actively practicing in Indiana.

### Age

**Table 2.1 Age of Survey Respondents\***

Age	1997**		2001**		2003***		2005***		2007***		2009	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under 35	389	4.9	830	8.5	921	13.0	736	12.5	866	9.7	1,195	11.0
35-44	2,822	35.8	3,391	34.6	2,355	33.2	1,805	30.7	2,571	28.7	3,051	28.1
45-54	2,544	32.3	3,269	33.3	2,333	32.9	1,906	32.4	2,984	33.3	3,479	32.0
55-64	1,325	16.8	1,573	16.0	1,082	15.2	1,009	17.3	1,855	20.7	2,300	21.2
Over 65	806	10.2	749	7.6	406	5.7	419	7.1	672	7.5	845	7.8
Total	7,886	100.0	9,812	100.0	7,097	100.0	5,875	100.0	8,948	100.0	10,870	100.0
Missing	179		172		86		56		93		113	

\* *These numbers represent survey respondents only.*

\*\* *Indiana Physician Survey Databook 1997 & 2001*, Indiana Health Care Professional Development Commission.

\*\*\* *Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys*, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Table 2.1 shows the age distribution of physician survey respondents active in Indiana. Nearly, one-third of the physicians were within the 35-44 (28.1%) and 45-54 age groups (32.0%). Only one-tenth were under 35 (11.0%) or over the age of 65 (7.8%).

### Residency and/or Fellowship Training Location

**Table 2.2 Residency and/or Fellowship Training Location\***

Training Location	2009	
	Number	Percent
Indiana	4,891	41.6
Other U.S. state	6,527	55.5
Canada	116	1.0
Other country (not U.S. or Canada)	224	1.9

\* *These numbers represent survey respondents only.*

Table 2.2 shows the residency and/or fellowship training location of the physician survey respondents. Over one-half (55.5%) of the physicians who were active in Indiana received their residency and/or fellowship training in another U.S. state. Two-fifths (41.6%) of the physicians received their training in Indiana.

## Physician Average Number of Weekly Hours in Direct Patient-Care Related Activities

**Table 2.3 Average Number of Hours Spent in Direct Patient Care Activities\***

Hours	2009	
	Number	Percent
0	204	1.9
1-9	334	3.1
10-19	351	3.2
20-29	576	5.3
30-39	1,066	9.8
40-49	3,648	33.4
50-59	2,355	21.5
60 or more	2,397	21.9
Total	10,931	100.0
Missing	52	

*\*These numbers represent survey respondents only.*

Table 2.3 shows the average number of hours spent in direct patient care related activities by the physician survey respondents. One-third (33.4%) of the physicians spent 40-49 hours in direct patient-care related activities. Over two-fifths (43.4%) of the physicians spent 50 or more hours in direct patient-care related activities.

### See or Accept Medicaid Patients

**Table 2.4 See or Accept Medicaid Patients\***

See/Accept Medicaid Patients	2009	
	Number	Percent
Yes	9,247	84.6
No	1,688	15.4
Total	10,935	100.0
Missing	48	

*\*These numbers represent survey respondents only.*

Table 2.4 shows the number of physician survey respondents who saw or accepted Medicaid patients. Over four-fifths (84.6%) of the survey respondents indicated they saw or accepted Medicaid patients.

## Physicians by Major Specialty

Table 2.5 Major Specialty of Survey Respondents\*

Major Specialty	1997**		2001**		2003***		2005***		2007***		2009	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Allergy & Immunology	45	0.6	47	0.5	29	0.4	22	0.4	46	0.5	44	0.4
Anesthesiology (AN)	543	6.9	656	6.6	565	7.9	497	8.4	696	7.3	796	7.3
Cardiology	293	3.7	372	3.8	225	3.1	135	2.3	331	3.5	390	3.6
Critical Care Medicine (CCM)	17	0.2	30	0.3	9	0.1	7	0.1	65	0.7	96	0.9
Dermatology	N/A	N/A	N/A	N/A	73	1.0	62	1.0	103	1.1	132	1.2
Emergency Medicine (EM)	423	5.3	529	5.3	502	7.0	473	8.0	658	6.9	729	6.7
Endocrinology	51	0.6	80	0.8	61	0.9	57	1.0	88	0.9	91	0.8
Family Medicine/General Practice	1,641	20.7	1,964	19.8	1,377	19.3	1,127	19.1	1,809	18.9	1,970	18.0
Gastroenterology/Hepatology	N/A	N/A	N/A	N/A	109	1.5	77	1.3	136	1.4	172	1.6
Genetics	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	1.0	9	0.1
Geriatrics (GERI)	25	0.3	38	0.4	27	0.4	29	0.5	27	0.3	31	0.3
Hematology/Oncology	108	1.4	137	1.4	111	1.6	90	1.5	55	0.6	176	1.6
Infectious Diseases (ID)	54	0.7	62	0.6	39	0.5	38	0.6	60	0.6	68	0.6
Internal Medicine, General	575	7.3	922	9.3	670	9.4	513	8.7	798	8.3	893	8.2
Internal Medicine- Pediatrics	31	0.4	70	0.7	71	1.0	60	1.0	99	1.0	81	0.7
Internal Medicine- Subspecialty	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	0.3
Nephrology	N/A	N/A	N/A	N/A	79	1.1	70	1.2	107	1.1	124	1.1
Neurology	116	1.5	164	1.7	136	1.9	88	1.5	158	1.7	208	1.9
Obstetrics/Gynecology	436	5.5	510	5.2	341	4.8	353	6.0	511	5.3	564	5.2
Ophthalmology	209	2.6	234	2.4	172	2.4	106	1.8	176	1.8	243	2.2
Orthopedic Surgery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	347	3.6	408	3.7
Otolaryngology	N/A	N/A	N/A	N/A	86	1.2	82	1.4	101	1.1	133	1.2
Pathology, General	193	2.4	183	1.8	0	0.0	0	0.0	0	0.0	0	0.0
Pathology, Subspecialty	29	0.4	49	0.5	178	2.5	165	2.8	254	2.7	257	2.3
Pediatrics, General	387	4.9	508	5.1	328	4.6	285	4.8	469	4.9	503	4.6
Pediatrics, Subspecialty	114	1.4	181	1.8	170	2.4	142	2.4	263	2.8	263	2.4
Physical Medicine & Rehabilitation	N/A	N/A	N/A	N/A	61	0.9	37	0.6	80	0.8	103	0.9
Plastic Surgery	N/A	N/A	N/A	N/A	61	0.9	38	0.6	68	0.7	80	0.7
Psychiatry	398	5.0	465	4.7	346	4.8	275	4.7	424	4.4	467	4.3
Pulmonary Medicine	90	1.1	110	1.1	89	1.2	60	1.0	90	0.9	130	1.2
Radiology (R)	331	4.2	354	3.6	62	0.9	28	0.5	111	1.2	101	0.9
Radiology, Subspecialty	33	0.4	139	1.4	243	3.4	250	4.2	261	2.7	430	3.9
Radiation Oncology (RO)	69	0.9	72	0.7	51	0.7	46	0.8	44	0.5	80	0.7
Rheumatology (RHU)	39	0.5	48	0.5	34	0.5	28	0.5	44	0.5	66	0.6
Surgery - General (GS)	271	3.4	319	3.2	209	2.9	157	2.7	297	3.1	320	2.9
Surgery, Subspecialty	525	6.6	672	6.8	384	5.4	320	5.4	232	2.4	265	2.4
Urology	137	1.7	146	1.5	73	1.0	60	1.0	132	1.4	94	0.9
Other Specialty	727	9.2	835	8.4	172	2.4	132	2.2	323	3.4	389	3.6
Total	7,910	100.0	9,896	100.0	7,143	100.0	5,909	100.0	9,562	100.0	10,938	100.0
Missing	155		88		38		22		28		45	

\*These numbers represent survey respondents only.

\*\*Indiana Physician Survey Databook 1997 & 2001, Indiana Health Care Professional Development Commission.

\*\*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

“Other Specialty” category includes, but is not limited to, aerospace medicine, hospitalist, neonatal-perinatal medicine, occupational medicine, and urgent care medicine. A total of 208 specialties were available on the survey. For purposes of this table, they have been grouped into 37 categories.

Table 2.5 shows the major specialties among the physician survey respondents. The most frequently reported specialty was “Family Medicine/General Practice,” which had 1,970 respondents in 2009. However, the percent of physicians in family medicine/general practice has dropped from 20.7% (in 1997) to 18.1% (in 2009). This was followed by general internal medicine and anesthesiology.

## Physicians by Aggregated Specialty

**Table 2.6 Aggregated Specialties of Survey Respondents\***

Major Specialty	1997**		2001**		2003***		2005***		2007***		2009	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Primary Care	2,634	33.3	3,464	35.0	2,446	34.2	1,985	33.6	3,175	33.2	3,447	31.5
Anesthesiology	543	6.9	656	6.6	565	7.9	497	8.4	696	7.3	796	7.3
Emergency Medicine	423	5.3	529	5.3	502	7.0	473	8.0	658	6.9	729	6.7
Geriatrics	25	0.3	38	0.4	27	0.4	29	0.5	27	0.3	31	0.3
Internal Medicine, Subspecialties	905	11.4	1,149	11.6	1,038	14.5	772	13.1	1,468	15.4	1,788	16.3
Obstetrics/Gynecology	436	5.5	510	5.2	341	4.8	353	6.0	511	5.3	564	5.2
Ophthalmology	209	2.6	234	2.4	172	2.4	106	1.8	176	1.8	243	2.2
Orthopedic Surgery	NA	NA	NA	NA	NA	NA	NA	NA	347	3.6	408	3.7
Otolaryngology	NA	NA	NA	NA	86	1.2	82	1.4	101	1.1	133	1.2
Pathology	222	2.8	232	2.3	178	2.5	165	2.8	254	2.7	257	2.3
Pediatrics, Subspecialty	114	1.4	181	1.8	170	2.4	142	2.4	263	2.8	263	2.4
Physical Medicine & Rehabilitation	NA	NA	NA	NA	61	0.9	37	0.6	80	0.8	103	0.9
Plastic Surgery	NA	NA	NA	NA	61	0.9	38	0.6	68	0.7	80	0.7
Psychiatry	398	5.0	465	4.7	346	4.8	275	4.7	424	4.4	467	4.3
Radiology	433	5.5	565	5.7	356	5.0	324	5.5	416	4.4	611	5.6
Surgery	796	10.1	991	10.0	593	8.3	477	8.1	529	5.5	585	5.3
Other Specialties	772	9.8	882	8.9	201	2.8	154	2.6	369	3.9	433	4.0
Total	7,910	100.0	9,896	100.0	7,143	100.0	5,909	100.0	9,562	100.0	10,938	100.0
Missing	155		88		38		22		28		45	

\*These numbers represent survey respondents only.

\*\*Indiana Physician Survey Databook 1997 & 2001, Indiana Health Care Professional Development Commission.

\*\*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Primary care includes family medicine/general practice, general internal medicine, general pediatrics, and internal medicine/pediatrics. (Sources for Primary Care definition: [www.connecticare.com/provider/physicianmanual/glossary.htm](http://www.connecticare.com/provider/physicianmanual/glossary.htm); [www.horizon-bcbsnj.com/members\\_resources\\_faqs\\_glossary.asp](http://www.horizon-bcbsnj.com/members_resources_faqs_glossary.asp))

Internal medicine subspecialties include cardiology, critical care medicine, dermatology, endocrinology, gastroenterology/hepatology, genetics, hematology/oncology, infectious disease, nephrology, neurology, pulmonary medicine, rheumatology, and urology.

Other Specialties include allergy & immunology and “other specialty” (from Table 2.8).

Table 2.6 shows an aggregated list of specialties reported by the physician survey respondents. In 2009, the most frequently reported aggregated specialties were primary care (31.5%), internal medicine, subspecialties (16.3%) and anesthesiology (7.3%).

## Provide Prenatal Care

**Table 2.7 Provide Prenatal Care\***

Major Specialty	2003**		2005**		2007**		2009	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Family Practice	455	54.4	285	44.3	399	43.8	414	36.2
Gynecology & Obstetrics	281	33.6	271	42.1	370	40.7	462	40.4
Other	100	12.0	88	13.7	141	15.5	268	23.4
Total	836	100.0	644	100.0	910	100.0	1,144	100.0
Missing	1		0		2		0	

\* These numbers represent survey respondents who answered "yes" to the question.

\*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Table 2.7 shows the major specialties providing prenatal care as indicated by physician survey respondents. Of physicians providing prenatal care in 2009, over one-third were family practice physicians. However, prenatal care provided by family practice physicians has decreased from 54.4% in 2003 to 36.2% in 2009.

## Provide Prenatal Care and Deliver Babies

**Table 2.8 Provide Prenatal Care and Deliver Babies\***

Major Specialty	2009	
	Number	Percent
Family Practice	333	36.6
Gynecology & Obstetrics	442	48.5
Other	136	14.9
Total	911	100.0
Missing	0	

\* These numbers represent survey respondents who answered "yes" to the question.

Table 2.8 shows the major specialties providing prenatal care and delivering babies as indicated by the physician survey respondents. In 2009, over one-third (36.6%) of the physicians providing prenatal services and delivering babies were family practice physicians.

### Chapter 3: Primary Care versus Non-Primary Care Physicians

The results presented in this chapter show the demographic and professional characteristics of the primary care and the non-primary care physicians. Based on their responses to the specialty question, physicians were divided into two broad categories: primary care and non-primary care. The primary care group included physicians indicating their specialty was family medicine/general practice, general internal medicine, general pediatrics, and internal medicine-pediatrics. The non-primary care group included physicians in all other specialties.

#### Age

**Table 3.1 Age of Primary Care and Non-Primary Care Respondents**

Age	2003**				2005**				2007**				2009			
	Primary Care		Non-Primary Care		Primary Care		Non-Primary Care		Primary Care		Non-Primary Care		Primary Care		Non-Primary Care	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under 35	436	18.5	474	10.3	319	17.4	401	10.9	352	12.2	511	8.5	366	14.0	826	10.1
35-44	804	34.2	1,524	33.2	606	33.0	1,155	31.3	903	31.3	1,665	27.6	729	27.8	2,312	28.2
45-54	686	29.2	1,610	35.0	546	29.8	1,296	35.2	891	30.9	2,090	34.6	763	29.1	2,699	32.9
55-64	283	12.0	773	16.8	267	14.6	657	17.8	531	18.4	1,318	21.8	527	20.1	1,762	21.5
Over 65	142	6.0	215	4.7	96	5.2	177	4.8	207	7.2	457	7.6	236	9.0	605	7.4
Total	2,351	100.0	4,596	100.0	1,834	100.0	3,686	100.0	2,884	100.0	6,041	100.0	2,621	100.0	8,204	100.0
Missing	29		55		22		31		36		56		28		85	

\* These numbers represent survey respondents only.

\*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Table 3.1 shows the age distribution of primary care versus non-primary care physicians. From 2003 to 2009 there has been an increase in the proportion of actively working primary care (18.0% in 2003 and 29.1% in 2009) and non-primary care (21.5% in 2005 and 28.9% in 2009) physicians who were 55 and older.

## Current Work Status

**Table 3.2 Primary Care vs Non-Primary Care Current Work Status\***

Current Work Status	2009			
	Primary Care		Non-Primary Care	
	Number	Percent	Number	Percent
Physician actively seeing patients - Full time	2,146	78.7	6,955	81.9
Physician actively seeing patients - Part time	364	13.3	703	8.3
Physician in training (medical resident/fellow)	54	2.0	228	2.7
Physician active in medicine, locum tenens ONLY	20	0.7	66	0.8
Physicians active in medicine, not seeing patients	65	2.4	337	4.0
Retired from active medical practice	59	2.2	136	1.6
Inactive in medicine	19	0.7	71	0.8
Total	2,727	100.0	8,496	100.0
Missing	1		6	

\* These numbers represent survey respondents only.

Table 3.2 represents the current work status of the primary care and non-primary care physicians in Indiana. There were more non-primary care physicians (81.9%) actively seeing patients full time than primary care physicians (78.7%). In addition, there were more primary care physicians (13.3%) actively seeing patients part time than non-primary care physicians (8.3%).

## Average Number of Weekly Hours in Direct Patient-Care Related Activities

**Table 3.3 Primary Care vs. Non-Primary Care Average Hours Spent in Direct Patient Care\***

Hours	2009			
	Primary Care		Non-Primary Care	
	Number	Percent	Number	Percent
0	39	1.5	165	2.0
1-9	101	3.8	232	2.8
10-19	104	3.9	244	3.0
20-29	157	5.9	419	5.1
30-39	320	12.1	739	9.0
40-49	917	34.7	2,712	32.9
50-59	490	18.5	1,852	22.5
60 or more	515	19.5	1,880	22.8
Total	2,643	100.0	8,243	100.0
Missing	6		46	

\* These numbers represent survey respondents only.

Table 3.3 shows the average number of hours per week spent by primary care physicians and non-primary care physicians in direct patient-care related activities in Indiana. There were more non-primary care physicians (45.3%) who spent 50 or more hours in direct patient care-related activities than primary care physicians (38.0%).

## Provide Prenatal Care and Deliver Babies

**Table 3.4 Primary Care vs Non-Primary Care Physicians  
Who Provide Prenatal Care and Deliver Babies\***

Provide Service	2009			
	Primary Care		Non-Primary Care	
	Number	Percent	Number	Percent
Yes	335	12.7	576	7.0
No	2,295	87.3	7,639	93.0
Total	2,630	100.0	8,215	100.0
Missing	19		74	

*\* These numbers represent survey respondents only.*

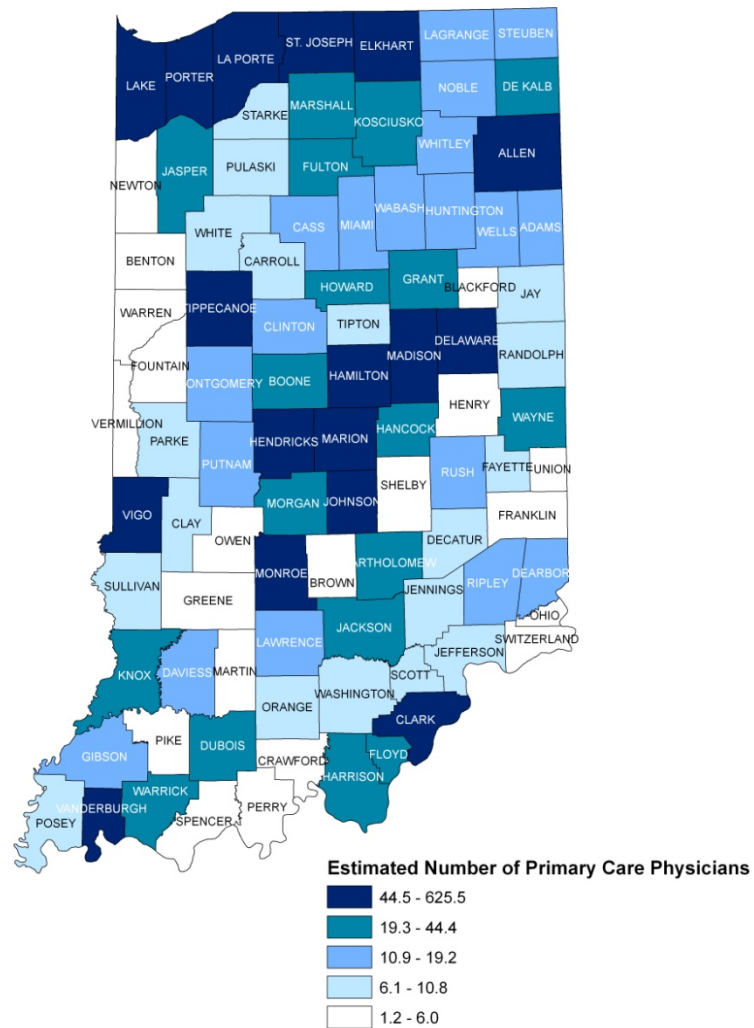
Table 3.4 compares the number of primary care physicians and non-primary care physicians who provided prenatal care and delivered babies. In 2009, primary care physicians (12.7%) were twice as likely as non-primary care physicians (7.0%) to provide prenatal care and deliver babies.



## Chapter 4: Location of Physicians by County in Indiana

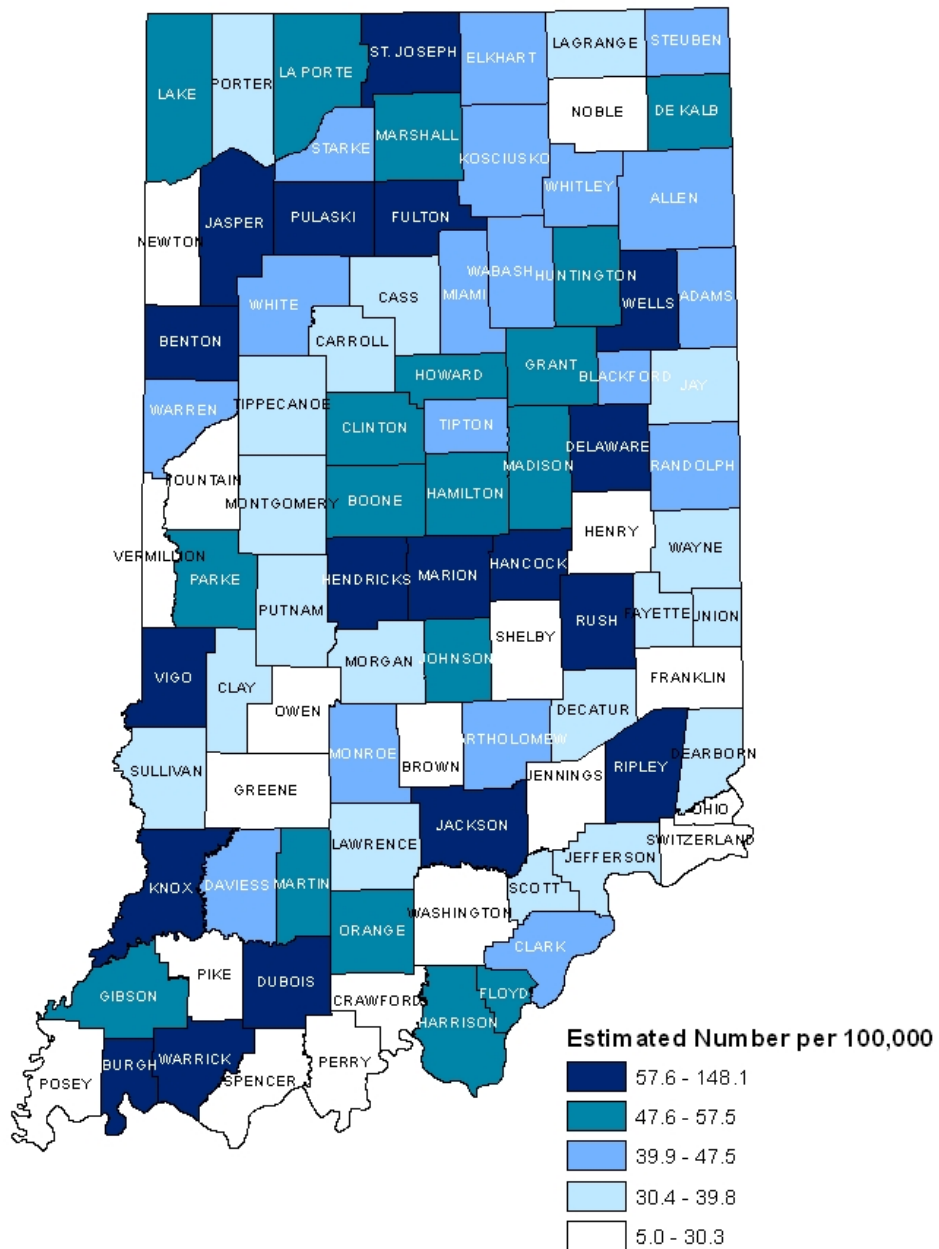
The following maps display the *estimated* number of physicians by county based on the respondents' principal practice location. To make the data representative of the actual physician population in each county, the number of physicians in each county was adjusted (weighted) for the specific response rate for the 2009 survey. Thus, the counts of physicians are *estimates* of the actual number of physicians in each county and not the number of respondents in each county.

Map 4.1 Estimated Number of Primary Care Physicians by County, 2009



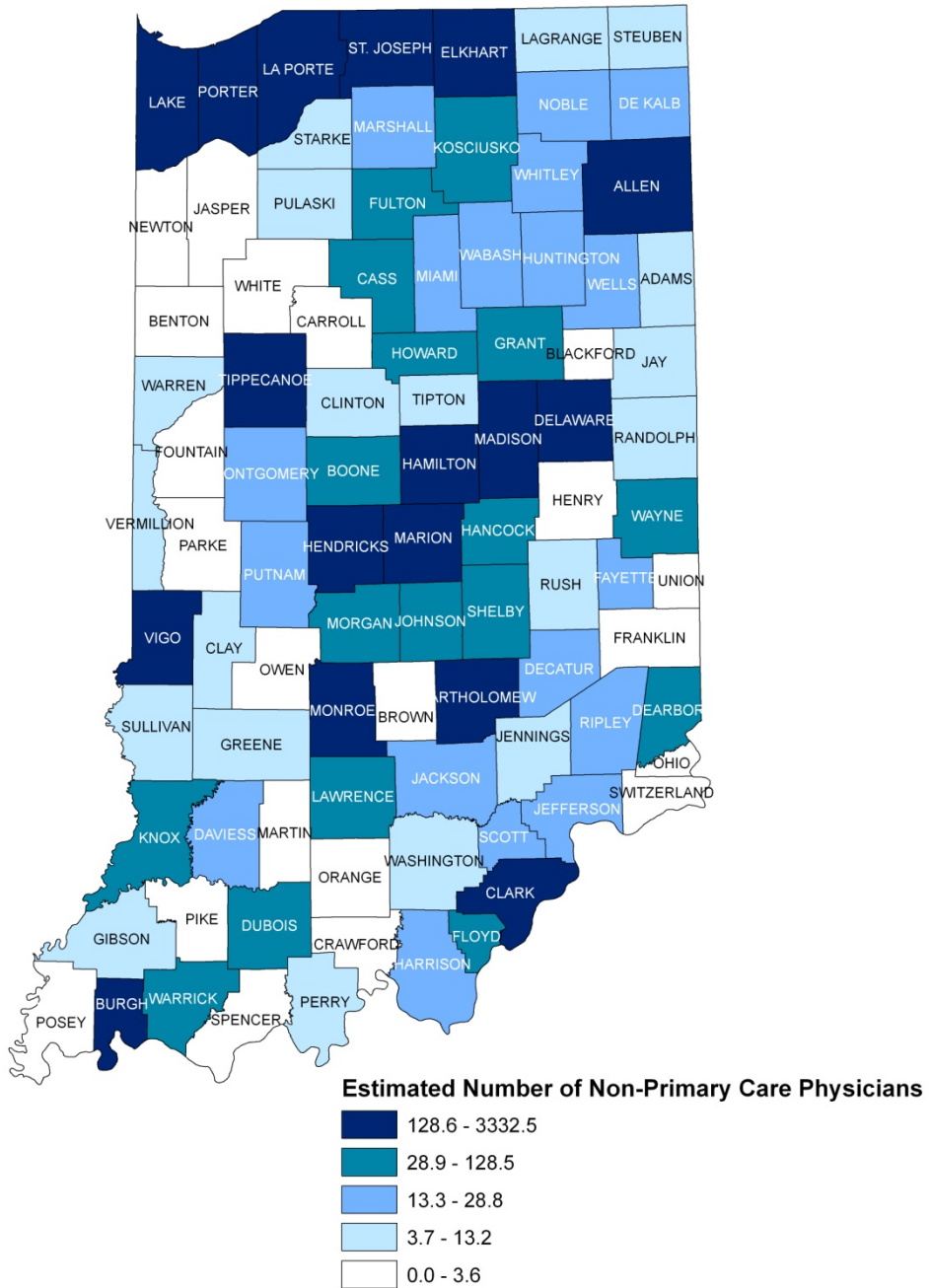
Map 4.1 shows that the number of primary care physicians in Indiana counties is distributed roughly by population. As expected, the counties with the largest populations have the greatest number of primary care physicians. These counties include Allen, Clark, Delaware, Elkhart, Hamilton, Hendricks, Johnson, La Porte, Lake, Madison, Marion, Monroe, Porter, St. Joseph, Tippecanoe, Vanderburgh, and Vigo.

Map 4.2 Estimated Number of Primary Care Physicians per 100,000 Population by County, 2009



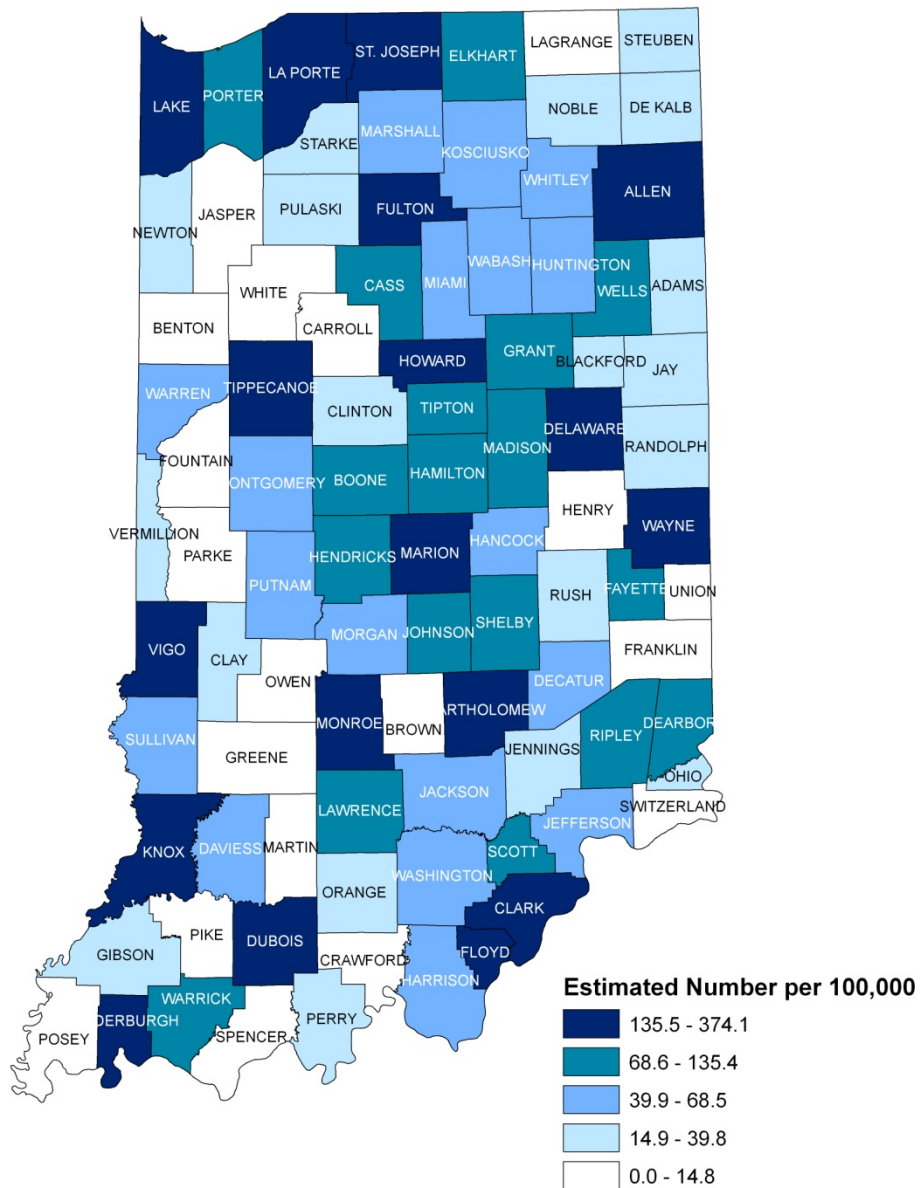
Map 4.2 shows an estimated number of primary care physicians per 100,000 population by county in Indiana. Ratios of primary care physicians were higher in the following counties: Benton, Delaware, Dubois, Fulton, Hancock, Hendricks, Jackson, Jasper, Knox, Marion, Pulaski, Ripley, Rush, St. Joseph, Vanderburgh, Vigo, Warrick, and Wells.

Map 4.3 Estimated Number of Non-Primary Care Physicians by County, 2009



Map 4.3 shows that the urban counties with the largest populations have the greatest number of non-primary care physicians. The counties include Allen, Bartholomew, Clark, Delaware, Elkhart, Hamilton, Hendricks, La Porte, Lake, Madison, Marion, Monroe, Porter, St. Joseph, Tippecanoe, Vanderburgh, and Vigo.

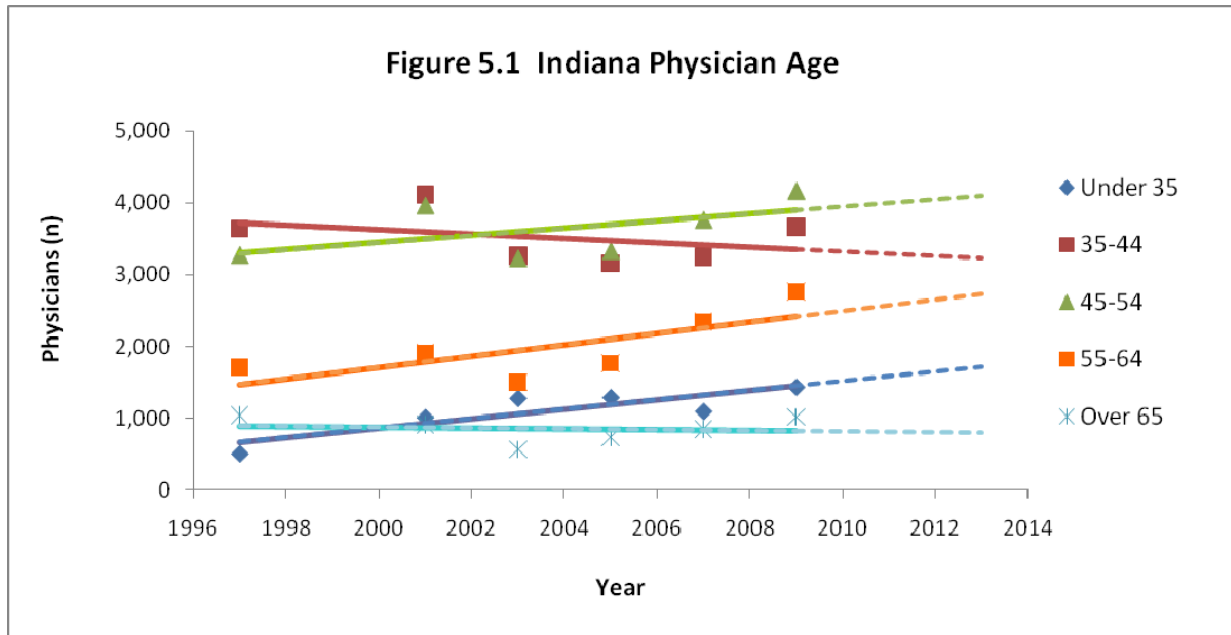
Map 4.4 Estimated Number of Non-Primary Care Physicians per 100,000 Population by County, 2009



Map 4.4 shows an estimated number of non-primary care physicians per 100,000 population by county in Indiana. Ratios of non-primary care physicians were higher in Allen, Bartholomew, Clark, Delaware, Dubois, Floyd, Fulton, Howard, Knox, La Porte, Lake, Marion, Monroe, St. Joseph, Tippecanoe, Vanderburgh, Vigo, and Wayne counties.

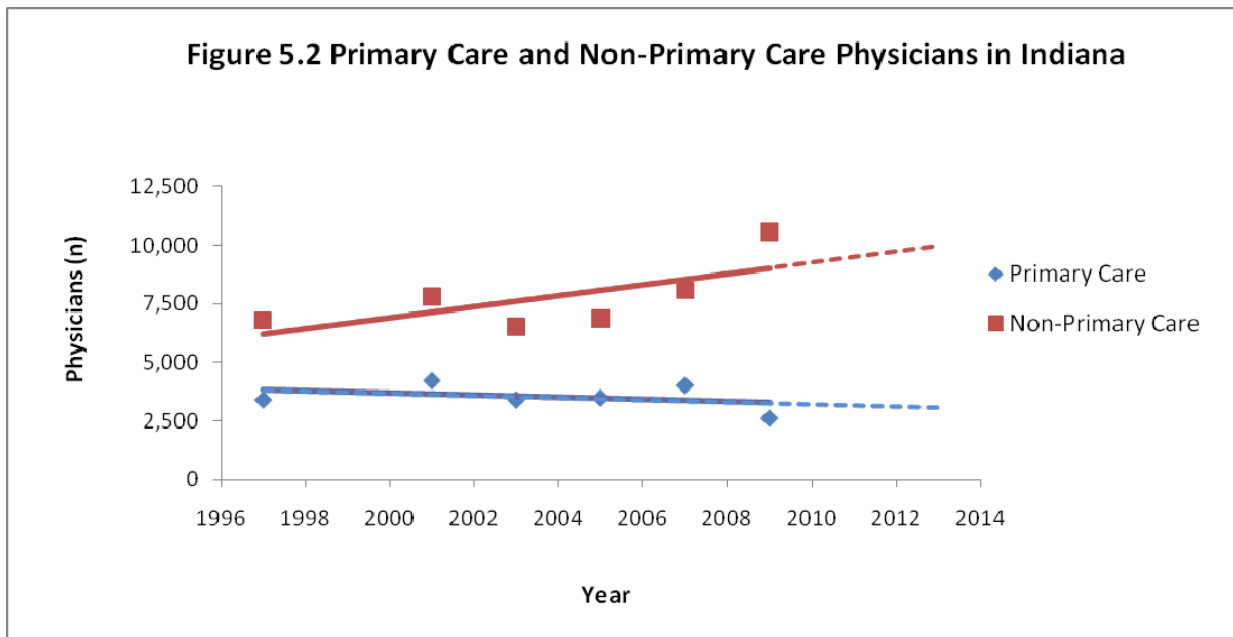
## Chapter 5: Trends in the Physician Workforce

Trends based on the six Indiana physician surveys during the 1997, 2001, 2003, 2005, 2007, and 2009 re-licensure periods are shown in this chapter. Trend lines have been shown in each figure to provide an understanding of the changing supply of physicians. To make the data comparable among surveys, results were adjusted (weighted) for the specific response rates for each survey. This weighting thus provides an estimate of the actual number of physicians practicing in Indiana each year and not just the number of survey respondents.



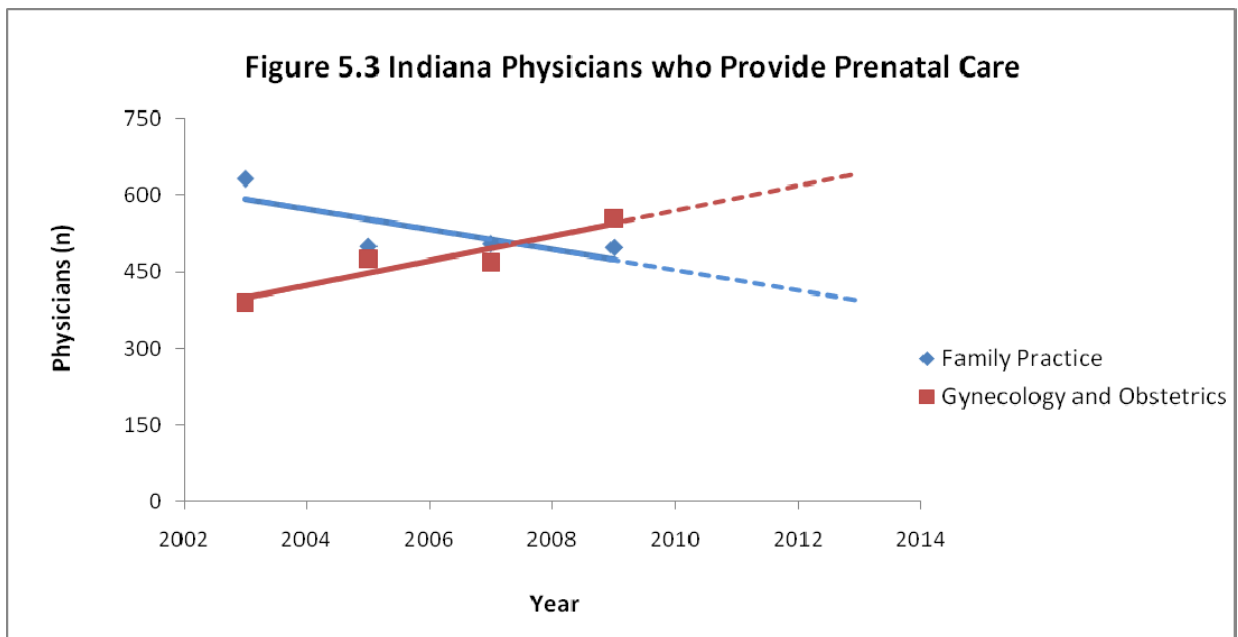
\*Indiana Physician Survey Databook 1997 & 2001, Indiana Health Care Professional Development Commission.  
 \*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Figure 5.1 shows an increase in the number of physicians in the under 35, 45-54, and 55-64 age groups, while there is a decrease among those in the 35-44 age group.



\*Indiana Physician Survey Databook 1997 & 2001, Indiana Health Care Professional Development Commission.  
 \*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Figure 5.2 shows that there has been a steady growth in the number of non-primary care physicians and a decrease in the number of primary care physicians over time.



\*Indiana Physician Survey Databook 1997 & 2001, Indiana Health Care Professional Development Commission.  
 \*\* Report of Responses to the 2003, 2005, and 2007 Indiana Physician Surveys, The Indiana Center for Health Workforce Studies, Indiana Area Health Education Centers Program.

Figure 5.3 shows there has been a decline among family physicians providing prenatal care but an increase in the number of obstetricians providing this service.

## Chapter 6: Conclusions

There has been an increase in the number of physicians renewing their Indiana license. Since 2003, physicians were given the option to renew their license on-line. In 2009, a total of 26,074 physicians renewed their Indiana licenses, of which 83.3% renewed their licenses on-line.

In 2009 data showed that among the physicians practicing in Indiana nearly one-third were aged 35-44 and another third were aged 45-54. The majority of the physicians indicated they spent most of their professional time in direct patient care related activities. The three specialties with the largest number of respondents were family medicine/general practice, general internal medicine, and anesthesiology. More than four-fifths of the physicians responded that they worked 40 or more hours per week. Over one-third of respondents who provided prenatal services and delivered babies were family practice physicians.

In 2009, there was an increase in the number of actively working primary care and non-primary care physicians who were 55 and older. There were more non-primary care physicians actively seeing patients full time than primary care physicians. There were more non-primary care physicians who spent 50 or more hours in direct patient care related activities than primary care physicians. Primary care physicians were twice as likely as non-primary care physicians to provide prenatal care and deliver babies.

Urban counties had the greatest number of primary care and non-primary care physicians.

Trends indicate a steady increase in non-primary care physicians and a decrease in primary care physicians between 1997 and 2009. The number of physicians increased except in the 35-44 age group.

## APPENDIX 1: Indiana Physician Survey Instruments

### Appendix 1A: 2003 Indiana Physician Survey

The following questions will help the Indiana State Department of Health identify health professional shortages and geographic shortage areas. Your response is entirely voluntary and will not affect the status of your license.

Thank you very much for your help.

1. What is your current work status in medicine? **Please select only one.**  
Physician active in medicine  
Physician in training (medical resident/fellow)  
Physician active in medicine, locum tenens ONLY  
Physician active in medicine, federally-employed  
Retired from active medical practice  
Temporarily inactive in medicine
  
2. What is the 5-digit zip code of your principal practice location? (If you are retired, temporarily inactive, or locum tenens only, please do not answer this question and proceed to questions 10 and 11.) Text box.
  
3. What is your major specialty? **Please select only one.**  
See attached list, which will be either a pull-down menu or a button page.
  
4. In which activity do you spend most of your time? **Please select only one.**  
Direct patient care or patient-care-related activities  
Administration  
Teaching  
Research  
Other
  
5. How many hours per week on average do you spend in ALL activities in medicine?  
**Please select only one.**  
0  
1-9  
10-19  
20-29  
30-39  
40 or more
  
6. Do you perform obstetrics? Yes No
  
7. Do you provide prenatal care? Yes No
  
8. Do you perform intensivist medicine? Yes No
  
9. Do you deliver any type of medical service using telemedicine (for example, telehome health care, telepsychiatry, teleradiology,



- |     |   |     |    |
|-----|---|-----|----|
|     | telecardiology, teledermatology, or telepathology)?   | Yes | No |
| 10. | Would you like to receive information on the Indiana Medical Reserve Corps? If you answer “Yes,” we may contact you using your HPB address information.                                 | Yes | No |
| 11. | 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 HPB address information. | Yes | No |

### **2003 Specialty List**

Addiction Medicine  
 Adolescent Medicine  
 Allergy & Immunology  
 Allergy & Immunology-Clinical and Laboratory Immunology  
 Alternative Medicine  
 Anesthesiology  
 Anesthesiology-Critical Care  
 Anesthesiology-Pain Management or Pain Medicine  
 Anesthesiology-Pediatric  
 Cardiology  
 Cardiovascular Disease  
 Clinical Immunology  
 Clinical & Laboratory Immunology  
 Critical Care Medicine  
 Dermatology  
 Dermatology-Clinical & Laboratory Dermatological Immunology  
 Dermatology-Dermatopathology  
 Emergency Medicine  
 Emergency Medicine-Medical Toxicology  
 Endocrinology  
 Endocrinology, Diabetes & Metabolism  
 Family Practice  
 Gastroenterology  
 General Internal Medicine  
 General Practice  
 Geriatrics  
 Gynecology  
 Gynecological Oncology  
 Hematology  
 Hematology/Oncology  
 Hepatology  
 Immunology  
 Infectious Diseases  
 Internal Medicine-General  
 Internal Medicine/Pediatrics  
 Maternal & Fetal Medicine

Medical Genetics  
Medical Toxicology  
Neonatal-Perinatal Medicine  
Nephrology  
Nuclear Medicine  
Obstetrics & Gynecology  
Obstetrics  
Occupational Medicine  
Oncology  
Ophthalmology  
Ophthalmology-Pediatric  
Otolaryngology  
Otolaryngology-Pediatric  
Otology  
Neurology  
Neurology-Child Neurology  
Neurology-Clinical Neurophysiology  
Palliative Medicine  
Pathology-Anatomic Pathology  
Pathology-Anatomic/Clinical Pathology  
Pathology-Bloodbanking Pathology  
Pathology-Chemical Pathology  
Pathology-Clinical Pathology  
Pathology-Cytopathology  
Pathology-Dermatopathology  
Pathology-Forensic Pathology  
Pathology-Hematology  
Pathology-Immunopathology  
Pathology-Medical Microbiology  
Pathology-Neuropathology  
Pathology-Pediatric Pathology  
Pathology-Radioisotopic Pathology  
Pathology-Other  
Pediatrics-Adolescent Medicine  
Pediatrics-General Pediatrics  
Pediatrics-Pediatric Cardiology  
Pediatrics-Pediatric Clinical and Laboratory Immunology  
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 Neurodevelopmental Disabilities  
Pediatrics-Neonatal-Perinatal Medicine  
Pediatrics-Pediatric Pulmonology  
Pediatrics-Pediatric Rheumatology  
Pediatrics-Pediatric Sports Medicine  
Physical Medicine & Rehabilitation  
Plastic Surgery  
Psychiatry  
Psychiatry-Addictions  
Psychiatry-Child & Adolescent  
Psychiatry-Geriatric  
Public Health  
Pulmonary Critical Care Medicine  
Pulmonary Diseases  
Pulmonology  
Radiation Oncology  
Radiology  
Radiology-Diagnostic Radiology  
Radiology-Nuclear  
Radiology-Pediatric  
Radiology-Neuroradiology  
Radiology-Radiological Physics  
Radiology-Vascular and Interventional Radiology  
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

## Appendix 1B: 2005 Indiana Physician 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.

1. What is your current work status in medicine? **Please select only one.**

DROP-DOWN LIST

- Physician active in medicine
- Physician in training (medical resident/fellow)
- Physician active in medicine, locum tenens ONLY
- Physician active in medicine, federally-employed
- Retired from active medical practice
- Temporarily inactive in medicine

2. Please type the 5-digit zip code of your principal practice location in the box next to this questions (the location at which you spend the most time). If you are retired or temporarily inactive, please put the zip code of your residence.

TEXT BOX

3. What is your major specialty? Please select only one. IF YOU ARE RETIRED OR TEMPORARILY INACTIVE, please select the specialty in which you are most experienced.  
DROP-DOWN LIST-SEE ATTACHED LIST

4. In which professional activity do you spend most of your time? Please select only one. IF YOU ARE RETIRED OR TEMPORARILY INACTIVE, please skip to Questions 11-19.  
DROP-DOWN LIST

- Direct patient care or patient-care-related activities
- Administration
- Teaching
- Research
- Other

5. How many hours per week on average do you spend in ALL activities in medicine? **Please select only one.**

DROP-DOWN LIST

- 0
- 1-9
- 10-19
- 20-29
- 30-39
- 40 or more

6. Which age patients do you most frequently work with? **Please select ALL that apply.**

DROP-DOWN LIST

- Infants (0-4)
- Children (5-9)

Adolescents (10-14)  
Youth (15-19)  
Adults (20-64)  
Elders (65 and older)  
I do not provide direct patient care services.

7. Do you perform obstetrics? Yes No
8. Do you provide prenatal care? Yes No
9. Do you perform intensivist medicine? Yes No

10. How much of your patient practice time do you spend in Indiana? **Please select only one.**

DROP-DOWN LIST

Less than 20 percent  
20-29 percent  
30-39 percent  
40-49 percent  
50-59 percent  
60-69 percent  
70-79 percent  
80-89 percent  
90-100 percent  
I do not provide direct patient care services.

11. 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 HPB address information.

Yes No

12. Would you be willing to attend specialized training in disaster-related medical care delivery?

Yes No

13. Are you fluent in Spanish? Yes No

14. Are you fluent in any Asian languages? Yes No

15. Which medical school did you GRADUATE from? **Please select only one.**

DROP-DOWN LIST

Indiana University School of Medicine  
Medical school in another U.S. state  
Medical school in Canada  
Medical school in another country (not U.S. or Canada)

16. Where did you do your residency and/or fellowship training? **Please select ALL that apply.**

DROP-DOWN LIST

Indiana  
Other U.S. state

Canada  
Other country (not U.S. or Canada)

17. 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

18. Are you of Hispanic origin? Yes                      No

19. What is your sex?

DROP-DOWN LIST

Female  
Male

### **2005 Specialty List**

Addiction Medicine  
Adolescent Medicine  
Allergy & Immunology  
Allergy & Immunology-Clinical and Laboratory Immunology  
Alternative Medicine  
Anesthesiology  
Anesthesiology-Critical Care  
Anesthesiology-Pain Management or Pain Medicine  
Anesthesiology-Pediatric  
Cardiology  
Cardiovascular Disease  
Clinical Immunology  
Clinical & Laboratory Immunology  
Critical Care Medicine  
Dermatology  
Dermatology-Clinical & Laboratory Dermatological Immunology  
Dermatology-Dermatopathology  
Emergency Medicine  
Emergency Medicine-Medical Toxicology  
Endocrinology  
Endocrinology, Diabetes & Metabolism  
Family Practice  
Gastroenterology  
General Internal Medicine  
General Practice  
Geriatrics  
Gynecology

Gynecological Oncology  
Hematology  
Hematology/Oncology  
Hepatology  
Immunology  
Infectious Diseases  
Internal Medicine-General  
Internal Medicine/Pediatrics  
Maternal & Fetal Medicine  
Medical Genetics  
Medical Toxicology  
Neonatal-Perinatal Medicine  
Nephrology  
Nuclear Medicine  
Obstetrics & Gynecology  
Obstetrics  
Occupational Medicine  
Oncology  
Ophthalmology  
Ophthalmology-Pediatric  
Otolaryngology  
Otolaryngology-Pediatric  
Otology  
Neurology  
Neurology-Child Neurology  
Neurology-Clinical Neurophysiology  
Palliative Medicine  
Pathology-Anatomic Pathology  
Pathology-Anatomic/Clinical Pathology  
Pathology-Bloodbanking Pathology  
Pathology-Chemical Pathology  
Pathology-Clinical Pathology  
Pathology-Cytopathology  
Pathology-Dermatopathology  
Pathology-Forensic Pathology  
Pathology-Hematology  
Pathology-Immunopathology  
Pathology-Medical Microbiology  
Pathology-Neuropathology  
Pathology-Pediatric Pathology  
Pathology-Radioisotopic Pathology  
Pathology-Other  
Pediatrics-Adolescent Medicine  
Pediatrics-General Pediatrics  
Pediatrics-Pediatric Cardiology  
Pediatrics-Pediatric Clinical and Laboratory Immunology  
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 Neurodevelopmental Disabilities  
Pediatrics-Neonatal-Perinatal Medicine  
Pediatrics-Pediatric Pulmonology  
Pediatrics-Pediatric Rheumatology  
Pediatrics-Pediatric Sports Medicine  
Physical Medicine & Rehabilitation  
Plastic Surgery  
Psychiatry  
Psychiatry-Addictions  
Psychiatry-Child & Adolescent  
Psychiatry-Geriatric  
Public Health  
Pulmonary Critical Care Medicine  
Pulmonary Diseases  
Pulmonology  
Radiation Oncology  
Radiology  
Radiology-Diagnostic Radiology  
Radiology-Nuclear  
Radiology-Pediatric  
Radiology-Neuroradiology  
Radiology-Radiological Physics  
Radiology-Vascular and Interventional Radiology  
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

## **Appendix 1C: 2007 Indiana Physician 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.

1. What is your current work status in medicine? Consider yourself active in medicine if you are engaged in direct patient care, administration, teaching, or research. **Please select only one.**

DROP-DOWN LIST

Physician active in medicine  
Physician in training (medical resident/fellow)  
Physician active in medicine, locum tenens ONLY  
Physician active in medicine, federally-employed  
Retired from active medical practice  
Temporarily inactive in medicine

2. Please type the 5-digit zip code of your principal practice location in the box next to this question (the location at which you spend the most practice time). If you are retired or temporarily inactive, please put the zip code of your residence.

TEXT BOX

3. What is your major specialty? **Please select only one.** IF YOU ARE RETIRED OR TEMPORARILY INACTIVE, please select the specialty in which you are most experienced.

DROP-DOWN LIST—SEE ATTACHED LIST

4. In which professional activity do you spend most of your time? **Please select only one.** IF YOU ARE RETIRED OR TEMPORARILY INACTIVE, please skip to Questions 11-16.

DROP-DOWN LIST

Direct patient care or patient-care-related activities  
Administration  
Teaching  
Research  
Other

5. How many hours per week on average do you spend in ALL activities in medicine? **Please select only one.**

DROP-DOWN LIST

0  
1-9  
10-19  
20-29  
30-39  
40 or more

6. Do you perform obstetrics?  
DROP-DOWN LIST  
Yes No
7. Do you provide prenatal care?  
DROP-DOWN LIST  
Yes No
8. Do you perform intensivist medicine?  
DROP-DOWN LIST  
Yes No
9. Which age patients do you most frequently work with? **Please select ALL that apply.**  
DROP-DOWN LIST  
Infants (0-4)  
Children (5-9)  
Adolescents (10-14)  
Youth (15-19)  
Adults (20-64)  
Elders (65 and older)  
I do not provide direct patient care services.
10. How much of your patient practice time do you spend in Indiana? **Please select only one.**  
DROP-DOWN LIST  
I do not provide direct patient care services.  
Less than 20 percent  
20-29 percent  
30-39 percent  
40-49 percent  
50-59 percent  
60-69 percent  
70-79 percent  
80-89 percent  
90-100 percent
11. 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
12. Would you be willing to attend specialized training in disaster-related medical care delivery?  
DROP-DOWN LIST  
Yes No

13. Are you fluent in any of the following languages? PLEASE SELECT ALL THAT APPLY.  
SELECT ALL THAT APPLY LIST, WITH TEXT BOX  
African languages  
Arabic  
Cambodian  
Chinese  
Filipino  
French  
German  
Greek  
Hindi  
Italian  
Japanese  
Korean  
Pennsylvania Dutch  
Polish  
Russian  
Sign language  
Spanish  
Thai  
Turkish  
Vietnamese
14. If you are fluent in any other language(s) besides those listed above, please enter the language(s) in the box provided: TEXT BOX
15. Do you have the following type(s) of medical experience? **Please select ALL that apply.**  
SELECT ALL THAT APPLY LIST  
Military medical experience  
Disaster medical experience
16. Where did you do your residency and/or fellowship training? **Please select ALL that apply.**  
SELECT ALL THAT APPLY LIST  
Indiana  
Other U.S. state  
Canada  
Other country (not U.S. or Canada)
17. If you are actively practicing medicine, do you deliver any type of medical service using telemedicine (for example, telehome health care, telepsychiatry, teleradiology, telecardiology, teledermatology, or telepathology)?  
DROP-DOWN LIST  
Yes No

## **2007 Specialty List**

### **Specialty Name**

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-Critical Care (CCA)  
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-Pediatric Urology (UP)  
Vascular Medicine (VM)  
Vascular Neurology (VN)  
Other Specialty (OS)

**Appendix 1D: 2009 Indiana Physician 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.

1. What is your current work status in medicine? Consider yourself active in medicine if you are engaged in direct patient care, administration, teaching, or research. **Please select only one.**

**DROP-DOWN LIST**

- Physician actively seeing patients Full Time
- Physician actively seeing patients Part Time
- Physician in training (medical resident/fellow)
- Physician active in medicine, locum tenens ONLY
- Physician active in medicine, not seeing patients
- Retired from active medical practice
- Inactive in medicine

2. Please type the street address of your principal practice location (the location at which you spend the most practice time) and the secondary practice locations and the number of half days per month you spend at each of those locations in the space provided below. If you are retired or inactive, please put the zip code of your residence.

Location #1: \_\_\_\_\_  
(Name) (Street) (City) (State) (Zip) (# of half days/month)

Location #2: \_\_\_\_\_  
(Name) (Street) (City) (State) (Zip) (# of half days/month)

Location #3: \_\_\_\_\_  
(Name) (Street) (City) (State) (Zip) (# of half days/month)

Location #4: \_\_\_\_\_  
(Name) (Street) (City) (State) (Zip) (# of half days/month)

Location #5: \_\_\_\_\_  
(Name) (Street) (City) (State) (Zip) (# of half days/month)

3. What is your major specialty? **Please select only one.** If you are retired or temporarily inactive, please select the specialty in which you are most experienced.

**DROP-DOWN LIST—SEE ATTACHED LIST**

4. Do you currently see (or accept) Medicaid patients?  
DROP-DOWN LIST  
Yes No
5. How many hours per week on average do you spend in direct patient care related activities in medicine (including the paperwork associated with providing care)? **Please select only one.**  
DROP-DOWN LIST  
0  
1-9  
10-19  
20-29  
30-39  
40-49  
50-59  
60 or more
6. Do you currently provide prenatal care?  
DROP-DOWN LIST  
Yes No
7. Do you provide prenatal care and deliver babies?  
DROP-DOWN LIST  
Yes No
8. 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
9. Where did you do your residency and/or fellowship training? **Please select ALL that apply.**  
DROP-DOWN LIST  
Indiana  
Other U.S. state  
Canada  
Other country (not U.S. or Canada)

## **2009 Specialty List**

### **Specialty Name**

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-Critical Care (CCA)  
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)  
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General Practice (GP)  
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Genetics-Clinical Cytogenetics (CCG)  
Genetics-Clinical Genetics (CG)  
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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)  
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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)  
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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)  
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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)  
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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-Pediatric Urology (UP)  
Vascular Medicine (VM)  
Vascular Neurology (VN)  
Other Specialty (OS)



**APPENDIX 2: Comparison Chart to Show Items Present in 2009 but NOT in Previous Years**

**Comparison Chart to show questions present between 2009 and before**

<b>Abbreviation</b>	<b>Question</b>	<b>2009</b>	<b>2007</b>	<b>2005</b>	<b>2003</b>	<b>2001</b>	<b>1997</b>
<b>ESURVEY</b>	Drop Down List - changes year to year	X	X	X	X	X	X
<b>HPBLICSTAT</b>	License status code for professional license	X	X	X			
<b>WORKSTAT</b>	Question 1: What is your current work status in medicine? Consider yourself active in medicine if you are engaged in direct patient care, administration, teaching or research. Please select only one.	X	X	X	X	X	X
<b>MAJSPEC</b>	Question 3: What is your major specialty? Please select only one. IF YOU ARE RETIRED OR TEMPORARILY INACTIVE, select the specialty in which you are most experienced.	X	X	X	X	X	X
<b>Medicaid</b>	Question 4 Do you currently see (or accept) Medicaid patients?	X					
<b>AVHRS</b>	Question 5: How many hours per week on average do you spend in direct patient care related activities in medicine (including the paperwork, association with providing care)? Please select only one.	X					
<b>PN</b>	Question 6: Do you provide prenatal care?	X	X	X	X		
<b>PNDB</b>	Question 7: Do you provide prenatal care and deliver babies?	X					
<b>INTNS</b>	Question 9: Where did you do your residency and/or fellowship training? Please select ALL that apply.	X					
<b>AGE</b>	Calculated age in 2009, based on HPBBYR data. Should be used in conjunction with BADBYR field.	X	X	X	X	X	X