



Bowen Center for
Health Workforce
— Research & Policy —
Indiana University School of Medicine

Data Report

2016 Indiana Physician Licensure Survey

May 2016



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Executive Summary

The Bowen Center for Health Workforce Research and Policy, formerly called the Bowen Research Center, has a rich history of collecting, analyzing, and disseminating health workforce data and research for the State of Indiana. These health workforce data are important to informing health workforce policy and planning efforts through the State. Although the health workforce is comprised of a myriad of health professionals, the physician workforce may be regarded as the backbone of the healthcare system, which makes collecting and disseminating timely data on the supply and distribution of Indiana's physician workforce critical to informing any health workforce policy or planning efforts.

The 2016 Indiana Physician Licensure Survey Data Report presents key information and data collected from the physician re-licensure survey administered by the Indiana Professional Licensing Agency (IPLA) during physicians' biennial license renewal. As of 2015, 26,536 physicians were licensed to practice in the State of Indiana. Of these, 10,057 physicians reported having an Indiana practice address. The majority of Indiana physicians reported having only one practice location in the state. Consistent with national trends, Indiana's physicians are concentrated in populous, urban areas.

In addition to understanding the geographic distribution of this workforce, practice characteristics are critical to determining capacity at the community level. A total of 6,285 (62%) physicians reported working 37 hours or more per week in direct patient care. Furthermore, roughly 52% of the physician workforce reported not offering a sliding fee scale. Also, 8.5% of Indiana physicians reported not accepting Medicaid.

This report details important demographic and practice characteristics for the physician workforce. The report also examines these data for the primary care physician workforce and the psychiatric workforce. The 2015 Indiana Physician Licensure Survey Data Report presents a snapshot of data on the physician workforce in order to provide stakeholders with information needed to improve the quality and accessibility of health care for Indiana residents through policymaking, workforce development, and resource allocation.

Introduction

The Bowen Center for Health Workforce Research and Policy (Bowen Center) aims to improve population health by contributing to informed health workforce policy through data management, community engagement, and original research. The Bowen Center, formerly called the Bowen Research Center, has a rich history of collecting, analyzing, and disseminating health workforce data and research for the State of Indiana. Understanding the status of Indiana's healthcare workforce is critical to ensuring that Indiana residents have access to high quality care, to developing programs that will train practitioners to meet future needs, and to recruiting and retaining healthcare professionals in Indiana. Furthermore, the physician workforce may be regarded as the backbone of the healthcare system, which makes collecting and disseminating timely data on the supply and distribution of Indiana's physician workforce critical to informing any health workforce policy or planning efforts.

The 2016 Physician Licensure Survey Data Report presents key information and data collected from the physician re-licensure survey administered by the Indiana Professional Licensing Agency (IPLA) during physicians' biennial license renewal. The report includes data on the physician workforce that may be used to promote meaningful policy discussion and to inform evidence-based health workforce policy development.

The data in this report are broken into three primary sections including (1) total physician workforce, (2) primary care physician workforce, and (3) psychiatric physician workforce. Each of the three sections contains demographic and professional characteristics as well as important supply and geographic distribution information.

Methods

Survey Administration

Indiana's physician re-licensure survey was adapted from the Physician Minimum Data Set (MDS) created by the Health Resources and Services Administration (HRSA), National Center for Health Workforce Analysis. HRSA has established MDS tools for many licensed health professionals in order to facilitate the establishment of national databases with consistent core data elements covering demographic, education, credentialing, and practice characteristics of the health professions. Indiana's physician re-licensure survey was administered by the IPLA during the biennial licensure renewal period. All physicians who renewed their license electronically (n=24,342) were invited to complete the voluntary survey.

Dataset Construction

The data used for this report were extracted from the physician base license and the physician survey data files provided by the IPLA through the Indiana State Department of Health (ISDH). The base license file contains administrative data such as license status, expiration date, license number, and date of birth. These data are not only important for calculating additional demographic variables such as age, but also for applying the inclusion and exclusion criteria used for this report. The base license file was merged with the physician survey file by license number.

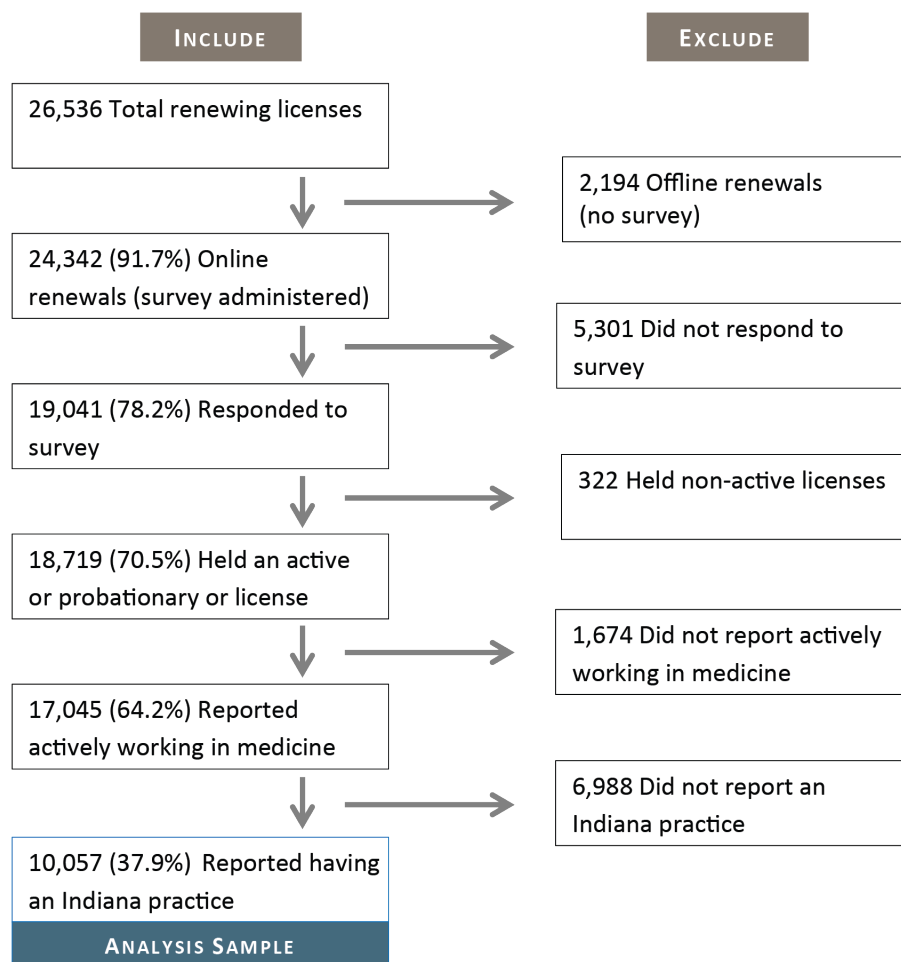
Inclusion and exclusion criteria were applied to the dataset in order to determine the sample of physicians actively practicing medicine in Indiana. Therefore, the following inclusion criteria were applied:

1. Physician renewed license online in 2015
2. Physician responded to the 2015 re-licensure survey
3. Physician holds an active or probationary license
4. Physician reported actively working in medicine
5. Physician reported an Indiana practice address

All physicians who did not meet the inclusion criteria were excluded in the sample for this data report. Figure 1 provides a flow chart of physicians who met the inclusion/exclusion criteria for the study sample. The final sample includes 10,057 physicians who held an active or probationary license to practice medicine in Indiana, reported actively working in medicine, and provided an Indiana practice location.

¹ Indiana's 2015 physician re-licensure survey is available online at: <http://family.medicine.iu.edu/hws>

² The HRSA's Physician MDS is available online at: <http://bhwh.hrsa.gov/healthworkforce/data/minimumdataset/physicians.pdf>

Inclusion and Exclusion Criteria**Practice Address Verification**

Physician survey data are matched by license number to National Provider Index (NPI) data that are obtained in the same month as the licensure survey data are generated. Data are grouped into two categories: survey respondents and non-respondents. Self-reported practice addresses are validated by geocoding to determine if geographic coordinates can be identified. Addresses which cannot be validated by geocoding are verified through secondary data collection. Survey respondents who do not report a practice address in the State of Indiana are not verified. Respondents who report practicing in the state of Indiana are prioritized by specialty for verification. Primary care specialties, as defined by HRSA guidelines, and Psychiatrists are included in the verification process. Primary data collection is performed for all non-respondents.³

FTE Assignment

A full-time equivalent (FTE) was assigned to each individual based on his/her survey response indicating the average number of hours per week they spent in direct patient care. FTEs were assigned to each individual in order to accurately map the distribution of the physician workforce throughout the state of Indiana. GIS (geographic information system) maps present the distribution of the workforce by FTE throughout the report. Individuals in each hourly category were assigned an FTE as shown in Table 1.1.

³A detailed address verification methodology is available through the resources section of the Bowen Center website: <http://family.medicine.iu.edu/hws>

Table 1.1: FTE Calculation for Reported Hours per Week in Patient Care

Hours per Week in Patient Care	Assigned FTE
0	0
1 – 4	0.1
5 – 8	0.2
9 – 12	0.3
13 – 16	0.4
17 – 20	0.5
21 – 24	0.6
25 – 28	0.7
29 – 32	0.8
33 – 36	0.9
37 – 40	1
40 or more	1

Rurality

Rurality is determined by whether an area is considered ‘urban’ or ‘non-urban.’ The Office of Management and Budget (OMB) defines an area as a Metropolitan Statistical Area (MSA) with the following definition:

- one city with a population of 50,000 or more; or
- an urbanized area (as defined by the Bureau of the Census) with a population of at least 50,000 and a total MSA population of at least 100,000.

Each MSA must include the county in which the central city is located and additional contiguous counties (fringe counties), if they are economically and socially integrated with the central county. Any county not included in an MSA is considered non-metro or “rural.”

Limitations

The analyses and data presented in this report have several key limitations that should be taken into account when utilizing and interpreting these data. The information in this report was gathered as self-reported responses to a voluntary survey. As is the case with all survey research, it is likely there is some level of response bias. In this case, it is possible that responses to a question do not reflect the absolute, practice characteristics of a provider. Although these self-reported data may not be considered absolute they provide a best estimate of provider’s practice characteristics and should only be used to inform policy discussion.

Additionally, the data presented in this report only represent a sample of the entire physician workforce. Due to missing data and the voluntary nature of the survey, many physicians are not represented in the final sample of this report. Although only a sample is present in these data, it represents over 80% of the physician workforce and may be valuable in informing health workforce policies.

Lastly, the physician re-licensure survey has been updated several times over the years in order to meet the needs of the State of Indiana. Due to changes in the methodology for administration of the survey, trend analyses on these data are not presented in this report.

Supplemental Data Tables

The primary purpose of the 2016 Physician Licensure Survey Data Report is to provide a snapshot of key information pertaining to the physician workforce in Indiana. This report only presents highlights of the 2015 physician survey data. Additional data tables are available online through the Bowen Center website.

All Physician Workforce

Indiana's physicians practice in a variety of settings and specialties and form a foundation for the health system. Information on the supply and distribution of this workforce is critical to Indiana's health system for the purpose of planning and policy development. This section presents data from the 2015 physician re-licensure survey and specifically focuses on the overall physician workforce in Indiana.

Highlights

- Mean age: 50.4
- Indiana's female physician workforce is on average 6 years younger than their male counterparts
- One-third (34%) of physicians are working 36 hours or less per week in patient care.
- More than half (52%) of Indiana physicians report not offering a sliding fee scale.
- 8.5% of Indiana physicians report not accepting Medicaid

Demographic Characteristics

Table 2.1: Physician Demographic Characteristics

	Female		Male		Non-Respondents		Total	
Mean Age	46.2		52.3		52.8		50.4	
	N	%	N	%	N	%	N	%
Age Groups								
Under 35	487	16.4	553	8.3	17	4.3	1,057	10.5
35-44	1,034	34.7	1,499	22.4	89	22.6	2,622	26.1
45-54	768	25.8	1,751	26.2	106	26.9	2,625	26.1
55-64	527	17.7	1,816	27.2	119	30.2	2,462	24.5
Over 65	128	4.3	985	14.7	53	13.5	1,166	11.6
Non-Respondents	33	1.1	82	1.2	10	2.5	125	1.2
Total	2,977	100.0	6,686	100.0	394	100.0	10,057	100.0
Ethnicity								
Hispanic or Latino	94	3.2	160	2.4	4	1.0	258	2.6
Not Hispanic or Latino	2,857	96.0	6,428	96.1	372	94.4	9,657	96.0
Non-Respondents	26	0.9	98	1.5	18	4.6	142	1.4
Total	2,977	100.0	6,686	100.0	394	100.0	10,057	100.0
Race								
White	2,152	72.3	4,998	74.8	270	68.5	7,420	73.8
Asian	416	14.0	875	13.1	61	15.5	1,352	13.4
Black or African American	202	6.8	274	4.1	17	4.3	493	4.9
Multiracial	41	1.4	84	1.3	4	1.0	129	1.3
Native Hawaiian	5	0.2	14	0.2	0	0.0	19	0.2
American Indian	2	0.1	10	0.1	0	0.0	12	0.1
Other	130	4.4	357	5.3	27	6.9	514	5.1
Non-Respondents	29	1.0	74	1.1	15	3.8	118	1.2
Total	2,977	100.0	6,686	100.0	394	100.0	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Gender was not provided for every respondent by Indiana Professional Licensing Agency (IPLA). Age was calculated from the Date of Birth provided by IPLA. Survey completion date was used for calculation of respondents age.

Professional and Practice Characteristics

Table 2.2: Practice Settings and Locations

Primary Practice Type	N	%
Hospital - Inpatient	1,823	18.1
Office/Clinic - Single Specialty Group	1,642	16.3
Office/Clinic - Multispecialty Group	1,449	14.4
Office/Clinic - Solo Practice	1,065	10.6
Office/Clinic - Partnership	936	9.3
Hospital - Emergency Department	770	7.7
Hospital - Outpatient	681	6.8
Other	403	4.0
Medical School	262	2.6
Federal/State/Community Health Center(s)	212	2.1
Hospital - Ambulatory Care Center	121	1.2
Federal Government Hospital	80	0.8
Nursing Home or Extended Care Facility	35	0.3
Volunteer in a Free Clinic	26	0.3
Research Laboratory	24	0.2
Hospice Care	16	0.2
Local Health Department	16	0.2
Home Health Setting	14	0.1
Telemedicine	9	0.1
Non-Respondents	473	4.7
Total	10,057	100.0
Number of practice locations	N	%
One	8,309	82.6
Two	1,280	12.7
Three	284	2.8
Non-Respondents	184	1.8
Total	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Not every respondent had a primary practice address in Indiana, but did report a secondary or tertiary practice address in Indiana. These individuals are included in the non-respondents as this table only reports on primary practice addresses.

Table 2.3: Average Hours/Week in Patient Care, All practice locations

Average hours/week in patient care	N	%
0 hours per week	228	2.3
1-4 hours per week	225	2.2
5-8 hours per week	175	1.7
9-12 hours per week	231	2.3
13-16 hours per week	197	2.0
17-20 hours per week	344	3.4
21-24 hours per week	365	3.6
25-28 hours per week	347	3.5
29-32 hours per week	568	5.6
33-36 hours per week	831	8.3
37-40 hours per week	5,008	49.8
41 or more hours per week	1,277	12.7
Non-Respondents	261	2.6
Total	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Table 2.4: Patient Population, Primary Practice Location

Sliding Scale Patient Population, Primary Practice Location	N	%
I do not offer a sliding fee scale	5,326	53.0
Sliding fee patients account for 0% - 5% of my practice	1,568	15.6
Sliding fee patients account for 6% - 10% of my practice	541	5.4
Sliding fee patients account for 11% - 20% of my practice	311	3.1
Sliding fee patients account for 21% - 30% of my practice	228	2.3
Sliding fee patients account for 31% - 50% of my practice	802	8.0
Sliding fee patients account for greater than 50% of my practice	165	1.6
Non-Respondents	1,116	11.1
Total	10,057	100.0
Medicaid Patient Population, Primary Practice Location	N	%
I do not accept Indiana Medicaid	894	8.9
Indiana Medicaid account for 0% - 5% of my practice	1,401	14.0
Indiana Medicaid account for 6% - 10% of my practice	1,714	17.0
Indiana Medicaid account for 11% - 20% of my practice	1,503	15.0
Indiana Medicaid account for 21% - 30% of my practice	1,332	13.2
Indiana Medicaid account for 31% - 50% of my practice	1,466	14.6
Indiana Medicaid account for greater than 50% of my practice	1,049	10.4
Non-Respondents	698	6.9
Total	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Sliding Fee Scale and Medicaid Patient Populations was not provided by every respondent.

Educational Information

Table 2.5: Education/Training Characteristics

Location of Training Program	N (%)	
	Medical School	Residency
Indiana	3,568 (35.5%)	3,940 (39.2%)
Contiguous State	2,094 (20.8%)	2,770 (27.5%)
Other US State	2,302 (22.9%)	3,062 (30.4%)
Another Country	2,003 (19.9%)	139 (1.4%)
Non-Respondents	90 (0.9%)	146 (1.5%)
Total	10,057 (100%)	10,057 (100%)

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Contiguous states include Illinois, Kentucky, Michigan and Ohio.

Specialty

Table 2.6: Specialty

Specialty	N	%
Family Medicine/General Practice	1,718	17.1
Internal Medicine (General)	1,088	10.8
Emergency Medicine	805	8.0
Anesthesiology	767	7.6
Pediatrics (General)	545	5.4
Obstetrics and Gynecology	417	4.1
Psychiatry	358	3.6
Radiology	335	3.3
Pediatrics Subspecialties	333	3.3
Cardiology	309	3.1
Other Specialties	304	3.0
Surgery (General)	292	2.9
Orthopedic Surgery	288	2.9
Ophthalmology	194	1.9
Pathology	193	1.9
Gastroenterology	168	1.7
Neurology	157	1.6
Hematology and Oncology	149	1.5
Nephrology	133	1.3
Pulmonology	111	1.1
Otolaryngology	110	1.1
Dermatology	107	1.1
Physical Medicine and Rehabilitation	88	0.9
Occupational Medicine	86	0.9
Endocrinology	85	0.8
Urology	76	0.8
Thoracic Surgery	69	0.7
Gynecology Only	66	0.7
Geriatric Medicine	65	0.6
Infectious Diseases	63	0.6
Plastic Surgery	63	0.6
Critical Care Medicine	61	0.6
Allergy and Immunology	56	0.6
Rheumatology	55	0.5
Radiation Oncology	50	0.5
Child Psychiatry	45	0.4
Vascular Surgery	39	0.4
Neurological Surgery	36	0.4
Colon and Rectal Surgery	26	0.3
Preventive Medicine/Public Health	19	0.2
Adolescent Medicine	18	0.2
Other Surgical Specialties	11	0.1
Non-Respondents	99	1.0
Total	10,057	100.0

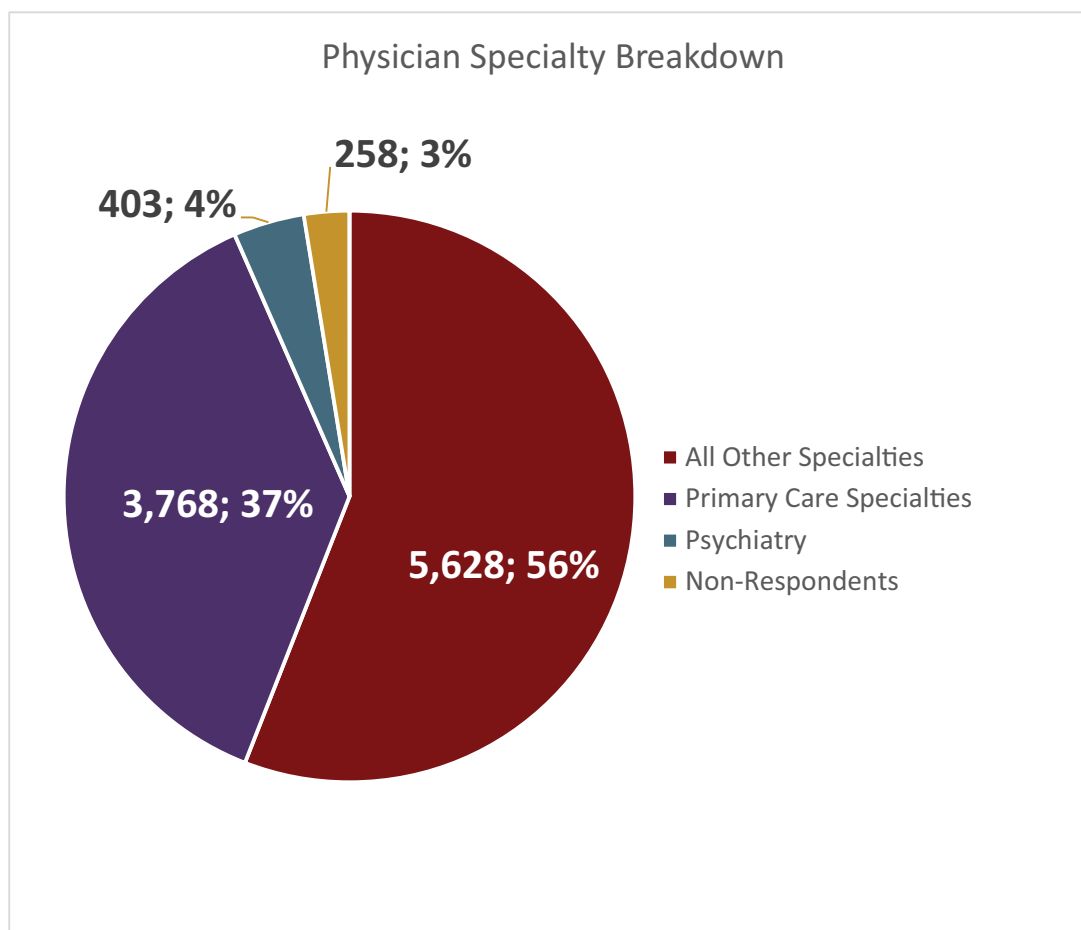
Source: Indiana Physician Re-Licensure Survey, 2015

Table 2.7 Physician Specialty Breakdown

Specialty	N	%
All Other Specialties	5,628	56.0
Primary Care Specialties	3,768	37.5
Psychiatry	403	4.0
Non-Respondents	258	2.6
Total	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Primary care specialties include Family Medicine, Internal (general) Medicine, Obstetrics and Gynecology, Pediatrics (general), which is consistent with the Health Resources & Services Administration's (HRSA) definition of primary care. Psychiatry includes psychiatry (general) and child psychiatry.



Supply and Geographic Distribution

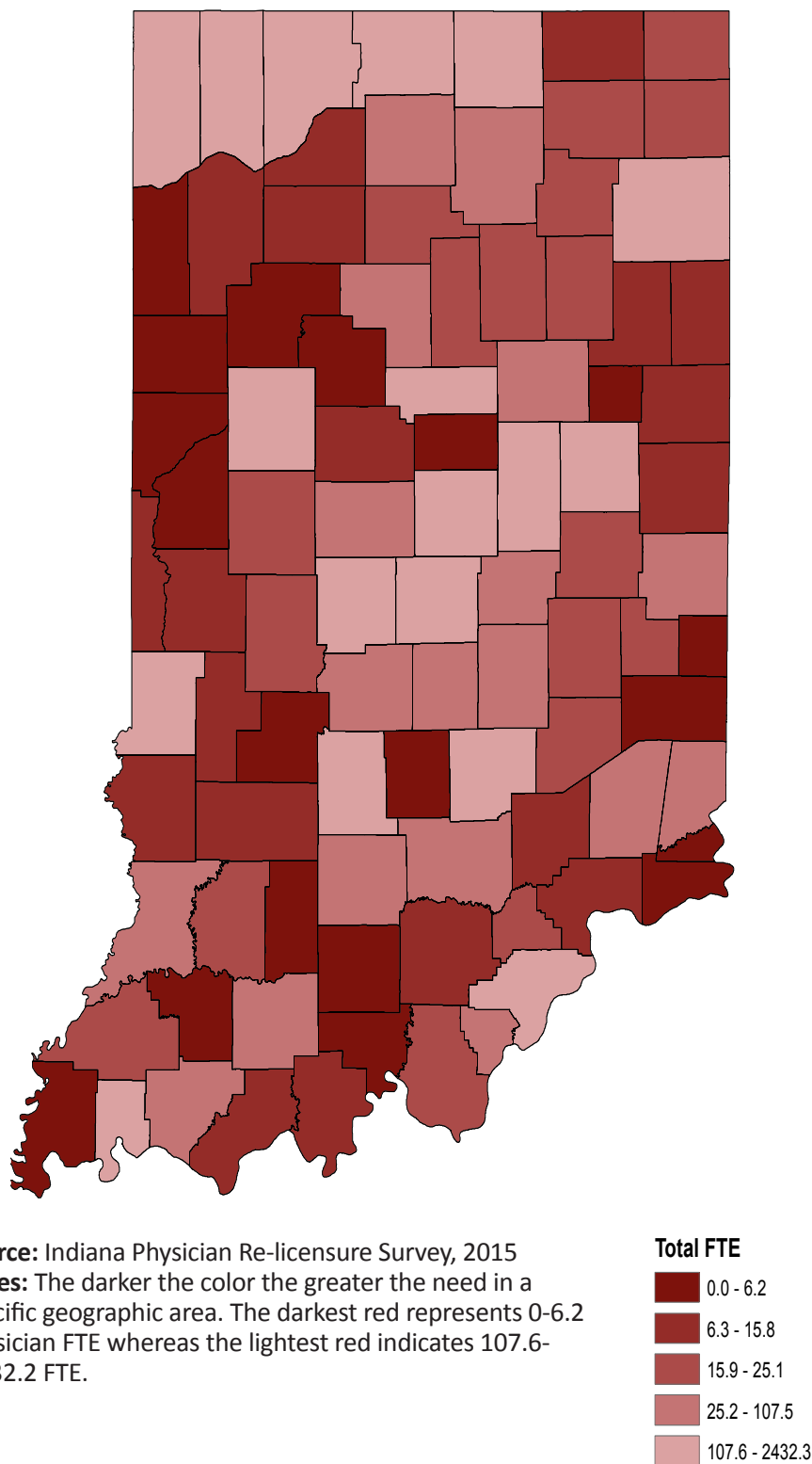
Table 2.8: Physician Geographic Distribution, Full Time Equivalent (FTE) by Public Health Regions**

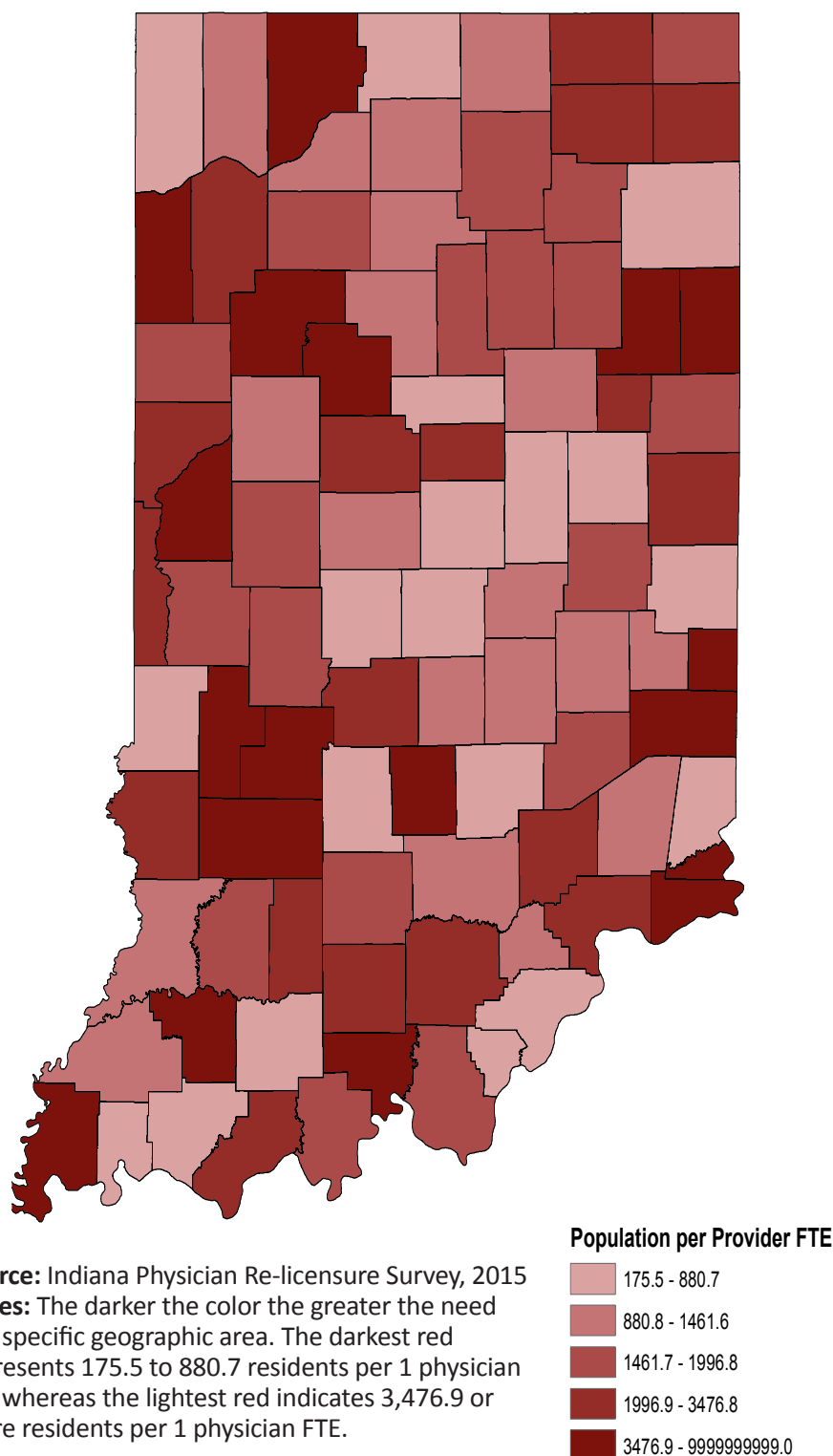
	All Physicians		Primary Care		Psychiatrist	
	FTEs	PPR*	FTEs	PPR*	Psych FTEs	PPR*
State - Indiana	7940.8	795.0	3083.9	2,047.2	293.1	21,539.8
Region 1	828.6	963.7	330.8	2,413.8	31.2	25,593.0
Region 2	265.4	2,366.6	135.7	4,628.5	14.0	44,863.2
Region 3	586.8	1,200.4	263.2	2,676.3	18.9	37,270.1
Region 4	241.7	1,432.7	103.5	3,345.8	12.5	27,703.3
Region 5	3188.9	532.0	1064.6	1,593.5	104.5	16,233.6
Region 6	634.3	954.6	285.0	2,124.5	30.2	20,049.3
Region 7	196.9	1,325.4	94.6	2,758.6	8.4	31,067.5
Region 8	411.7	851.1	156.5	2,238.8	17.4	20,136.7
Region 9	390.3	1,142.4	171.0	2,607.5	16.0	27,868.1
Region 10	606.1	525.6	270.2	1,179.1	21.3	14,957.5
Non-Respondents	590.1	not available	208.8	not available	18.7	not available

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Physicians that did not have a primary practice address in Indiana were not assigned to a public health region. All Physicians are defined as physicians who completed the survey regardless of specialty. Primary Care includes Internal Medicine (General), Family Medicine/General Medicine, Obstetrics and Gynecology, and Pediatrics (General) as defined by Health Resources & Services Administration (HRSA). Psychiatry includes Psychiatry (General) and Child Psychiatry. *Population to Provider Ratio (PPR) ** Public health preparedness regions defined by Indiana State Department of Health.

Map 2.1 Geographic distribution of physician full time equivalent



Map 2.2 Geographic representation of population per physician full time equivalent

Urban vs Rural

Table 2.9: Geographic Distribution: Rurality

Rurality	Physician N	Population N
Rural principal practice location	1,042	1,387,097.0
Urban principal practice location	8,702	4,926,218.0
Non-Respondents	313	-
Total	10,057	6,313,315.0

Source: Indiana Physician Re-Licensure Survey, 2015 and American Community Survey (ACS), 2013.

Notes: The definition of Urban and Rural is defined by the United States Office of Management and Budget (OMB).

Table 2.10: Gender and Age by Urban and Rural

	Urban		Rural		Non-Respondents		State	
Mean Age	50.3		52.1		51.4		51.3	
Female Age Groups	N	%	N	%	N	%	N	%
Under 35	447	16.7	36	14.5	4	6.9	487	16.4
35- 44	929	34.8	77	30.9	28	48.3	1,034	34.7
45 - 54	689	25.8	67	26.9	12	20.7	768	25.8
55 - 64	462	17.3	54	21.7	11	19.0	527	17.7
Over 65	113	4.2	13	5.2	2	3.4	128	4.3
Non-Respondents	30	1.1	2	0.8	1	1.7	33	1.1
Total	2,670	100.0	249	100.0	58	100.0	2,977	100.0
Male Age Groups								
Under 35	525	9.2	22	3.1	6	2.5	553	8.3
35- 44	1,310	22.9	126	17.6	62	25.6	1,498	22.4
45 - 54	1,483	25.9	204	28.5	64	26.4	1,751	26.2
55 - 64	1,519	26.5	230	32.1	66	27.3	1,815	27.2
Over 65	819	14.3	127	17.7	39	16.1	985	14.7
Non-Respondents	69	1.2	8	1.1	5	2.1	82	1.2
Total	5,725	100.0	717	100.0	242	100.0	6,684	100.0
Gender Non-Respondents								
Total	333	100.0	45	100.0	18	100.0	396	100.0
Total Age Groups								
Under 35	992	11.4	58	5.7	10	3.1	1,060	10.5
35- 44	2,323	26.6	205	20.3	92	28.9	2,620	26.1
45 - 54	2,267	26.0	280	27.7	78	24.5	2,625	26.1
55 - 64	2,074	23.8	303	30.0	84	26.4	2,461	24.5
Over 65	971	11.1	148	14.6	47	14.8	1,166	11.6
Non-Respondents	101	1.2	17	1.7	7	2.2	125	1.2
Total	8,728	100.0	1,011	100.0	318	100.0	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Age 7 Gender Categories calculation based on primary practice address. See Table 1.1 for FTE conversion.

Primary Care Physician Workforce

Primary care serves as a foundation for a strong health system and may improve health outcomes and health equity. This section focuses on the primary care physician workforce and presents data on demographic and practice characteristics, education, supply data, as well as the geographic distribution of this workforce. Primary care physicians were defined as Internal Medicine (General), Family Medicine/General Medicine, Obstetrics and Gynecology, and Pediatrics (General), which is consistent with HRSA's definition of primary care specialties.

Highlights

- Only 38% of the physician workforce is in a primary care specialty
- Family medicine makes up 46% of the primary care physician workforce
- 57.5% of primary care physicians report working 37+ hours per week
- 54% of primary care physicians do not offer a sliding fee scale
- 11% of primary care physicians do not accept Indiana Medicaid
- 24% of Indiana's primary care physicians are foreign medical graduates

Table 3.1: Primary Care Physicians

Specialty	N	%
Primary Care Specialties	3,768	37.5%
Non Primary Care Specialties	6,289	62.5%
Total	10,057	100.0%

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Primary Care includes Internal Medicine (General), Family Medicine/General Medicine, Obstetrics and Gynecology, and Pediatrics (General) as defined by HRSA.

Proportion of Indiana Physicians in Primary Care

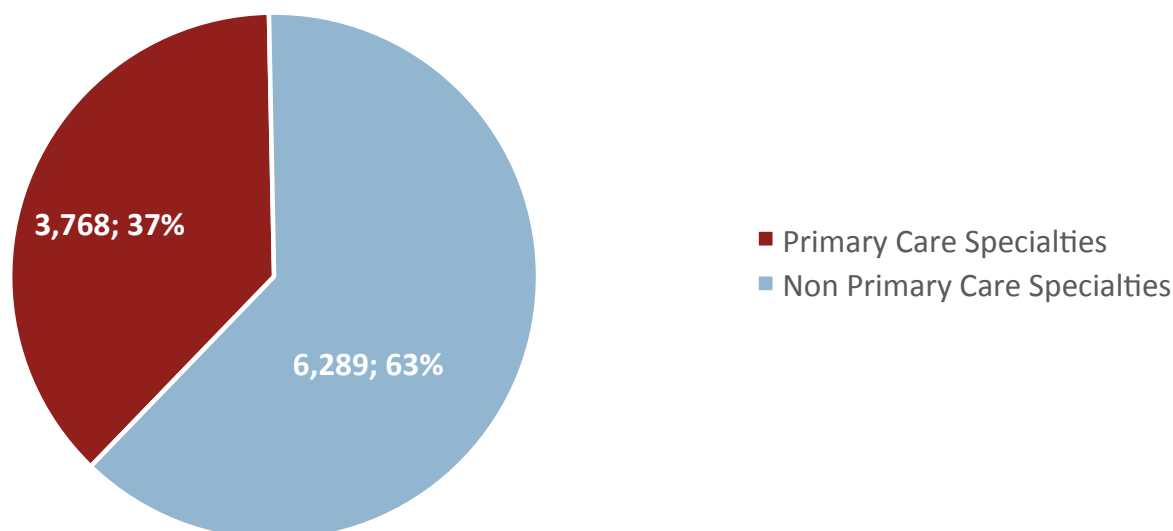


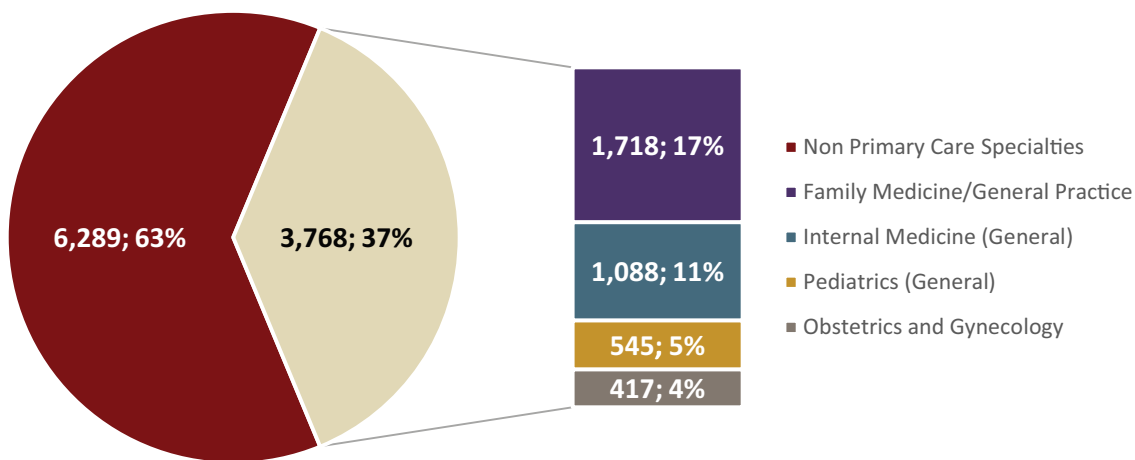
Table 3.2: Primary Care Specialty Breakdown

Primary Care Specialties	N	%
Family Medicine/General Practice	1,718	45.6%
Internal Medicine (General)	1,088	28.9%
Pediatrics (General)	545	14.5%
Obstetrics and Gynecology	417	11.1%
Total	3,768	100.0%

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Primary Care includes Internal Medicine (General), Family Medicine/General Medicine, Obstetrics and Gynecology, and Pediatrics (General) as defined by HRSA.

Proportion of Indiana Physicians in Primary Care



Demographic Characteristics

Table 3.3: Primary Care Demographic Characteristics

	Female		Male		Non-Respondents		Total	
Mean Age	45.5		52.6		49.7		49.7	
Age Groups	N	%	N	%	N	%	N	%
Under 35	261	17.6	226	10.5	9	6.8	496	13.2
35-44	562	38.0	451	20.9	28	21.1	1,041	27.6
45-54	381	25.8	555	25.7	35	26.3	971	25.8
55-64	226	15.3	577	26.8	43	32.3	846	22.5
Over 65	49	3.3	347	16.1	18	13.5	414	11.0
Non-Respondents	0	0.0	0	0.0	0	0.0	0	0.0
<i>Total</i>	1,479	100.0	2,156	100.0	133	100.00	3,768	100.00
Ethnicity								
Hispanic or Latino	61	4.7	52	2.4	0	0.0	113	3.0
Not Hispanic or Latino	1,408	95.2	2,086	96.8	131	98.5	3,625	96.2
Non-Respondents	10	0.7	18	0.8	2	1.5	30	0.8
<i>Total</i>	1,479	100.0	2,156	100.0	133	100.0	3,768	100.0
Race								
White	1,064	71.9	1,625	75.4	86	64.7	2,775	73.6
Asian	195	13.2	262	12.2	25	18.8	482	12.8
Other	91	6.2	143	6.6	11	8.3	245	6.5
Black	115	7.8	102	4.7	10	7.5	227	6.0
Native Hawaiian/ Pacific Islander	0	0.0	3	0.1	0	0.0	3	0.1
American Indian or Alaska Native	4	0.3	4	0.2	0	0.0	8	0.2
Non-Respondents	10	0.7	17	0.8	1	0.8	28	0.7
<i>Total</i>	1,479	100.0	2,156	100.0	133	100.0	3,768	100.0

Source: Indiana Physician Re-Licensure Survey, 2015**Notes:** Data on Gender was not provided for every respondent by Indiana Professional Licensing Agency (IPLA). Age was calculated from the date of birth provided by IPLA.

Professional and Practice Characteristics

Table 3.4: Primary Care Physician Practice Settings and Locations

Primary Practice Type	N	%
Office/Clinic - Single Specialty Group	733	19.5
Office/Clinic - Multi Specialty Group	712	18.9
Hospital - Inpatient	553	14.7
Office/Clinic - Partnership	544	14.4
Office/Clinic - Solo Practice	528	14.0
Hospital - Outpatient	186	4.9
Federal/State/Community Health Center(s)	150	4.0
Other	150	4.0
Hospital - Ambulatory Care Center	44	1.2
Medical School	27	0.7
Federal Government Hospital	21	0.6
Volunteer in a Free Clinic	19	0.5
Nursing Home or Extended Care Facility	16	0.4
Hospital - Emergency Department	15	0.4
Hospice Care	9	0.2
Home Health Setting	9	0.2
Local Health Department	4	0.1
Research Laboratory	3	0.1
Telemedicine	1	0.0
Non-Respondents	44	1.2
Total	3,768	100.0
Number of practice locations	N	%
Three	51	1.4
Two	383	10.2
One	3,334	88.5
Total	3,768	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Primary Practice Type was not provided by every respondent. Not every respondent had a primary practice address in Indiana.

Table 3.5: Primary Care Physician Average hours/week in patient care, All practice locations

Average hours/week in patient care	N	%
0 hours per week	63	1.7
1-4 hours per week	100	2.7
5-8 hours per week	82	2.2
9-12 hours per week	109	2.9
13-16 hours per week	75	2.0
17-20 hours per week	160	4.2
21-24 hours per week	157	4.2
25-28 hours per week	173	4.6
29-32 hours per week	230	6.1
33-36 hours per week	425	11.3
37-40 hours per week	902	23.9
41 or more hours per week	1,231	32.7
Non-Respondents	61	1.6
Total	3,768	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Table 3.6: Primary Care Physician Patient Population, Primary Practice Location

Sliding Scale Patient Population, Primary Practice Location	N	%
I do not offer a sliding fee scale	1,876	49.9
Sliding fee patients accounts for 0% - 5% of my practice	767	20.4
Sliding fee patients accounts for 6% - 10% of my practice	363	9.6
Sliding fee patients accounts for 11% - 20% of my practice	194	5.1
Sliding fee patients accounts for 21% - 30% of my practice	117	3.1
Sliding fee patients accounts for 31% - 50% of my practice	105	2.8
Sliding fee patients accounts for greater than 50% of my practice	55	1.5
Non-Respondents	291	7.7
Total	3,768	100.0
Medicaid patient population (Primary Practice)		
I do not accept Indiana Medicaid	389	10.3
Indiana Medicaid accounts for 0% - 5% of my practice	583	15.5
Indiana Medicaid accounts for 6% - 10% of my practice	541	14.4
Indiana Medicaid accounts for 11% - 20% of my practice	576	15.3
Indiana Medicaid accounts for 21% - 30% of my practice	517	13.7
Indiana Medicaid accounts for 31% - 50% of my practice	494	13.1
Indiana Medicaid accounts for greater than 50% of my practice	497	13.2
Non-Respondents	171	4.5
Total	3,768	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Sliding Fee Scale and Medicaid Patient Populations was not provided by every respondent. Not every respondent had a primary practice address in Indiana.

Educational Information

Table 3.7: Education/Training Characteristics

Location of Training Program	N (%)	
	Medical School	Residency
Indiana	1,484 (39.4%)	1,837 (48.8%)
Contiguous State	733 (19.5%)	940 (24.9%)
Other US State	715 (19%)	900 (23.9%)
Another Country	802 (21.3%)	41 (1.1%)
Non-Respondents	34 (0.9%)	50 (1.3%)
Total	3,768 (100%)	3,768 (100%)

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Contiguous states include Illinois, Kentucky, Michigan and Ohio.

Supply and Geographic Distribution

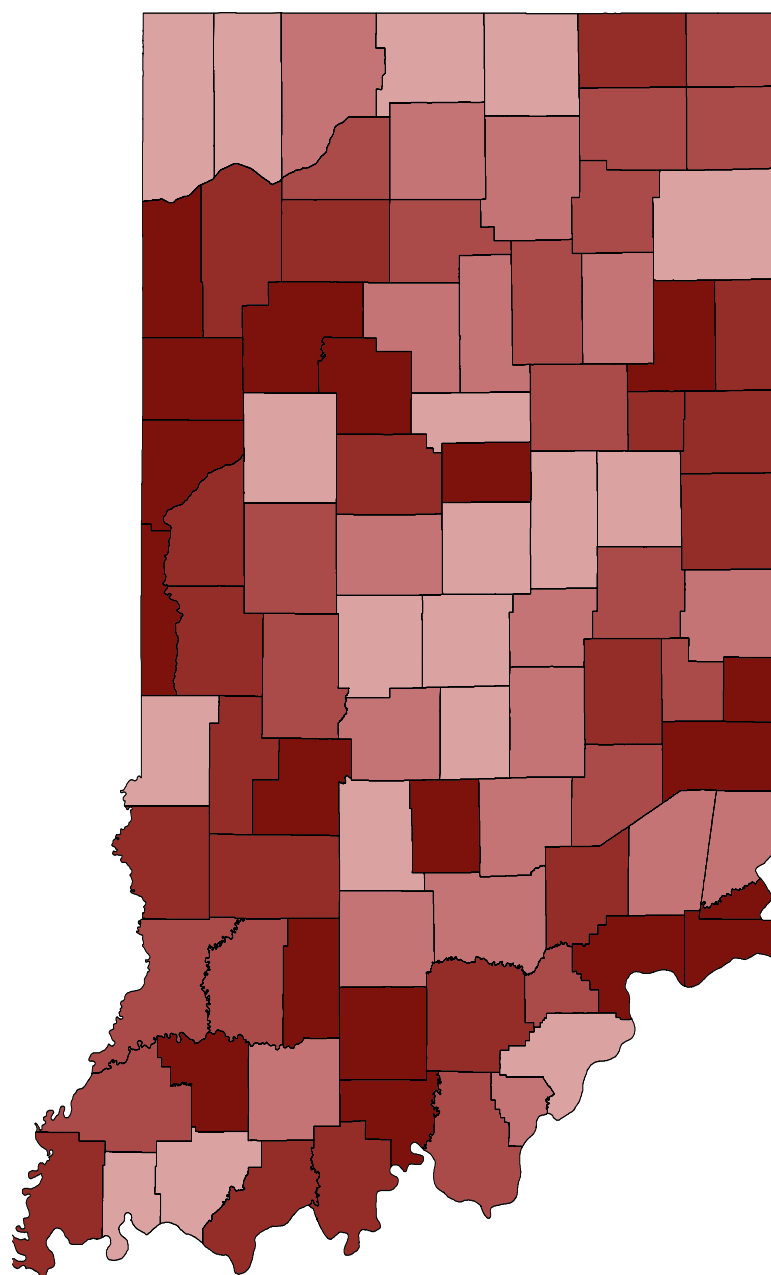
Table 3.8: Primary Care Physician Geographic Distribution by Public Health Region**

Region	All Physicians		Primary Care	
	FTEs	PPR*	FTEs	PPR*
State - Indiana	7,940.8	792.8	3,083.9	2,041.4
Region 1	828.6	963.7	330.8	2,413.8
Region 2	265.4	2,366.6	135.7	4,628.5
Region 3	586.8	1,200.4	263.2	2,676.3
Region 4	241.7	1,432.7	103.5	3,345.8
Region 5	3,188.9	532.0	1,064.6	1,593.5
Region 6	634.3	954.6	285.0	2,124.5
Region 7	196.9	1,325.4	94.6	2,758.6
Region 8	411.7	851.1	156.5	2,238.8
Region 9	390.3	1,142.4	171.0	2,607.5
Region 10	606.1	525.6	270.2	1,179.1
Non-Respondents	590.1	Not Available	208.8	Not Available

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Physicians that did not have a primary practice address in Indiana were not assigned to a public health region. All Physicians are defined as physicians who completed the survey regardless of specialty. Classification of Public Health Regions are defined by Indiana State Department of Health Preparedness Districts. Primary Care includes Internal Medicine (General), Family Medicine/General Medicine, Obstetrics and Gynecology, and Pediatrics (General) as defined by Health Resources & Services Administration (HRSA). *PPR (Population to Provider Ratio) ** Public health preparedness regions defined by Indiana State Department of Health.

Map 3.1 Geographic distribution of primary care physician full time equivalent



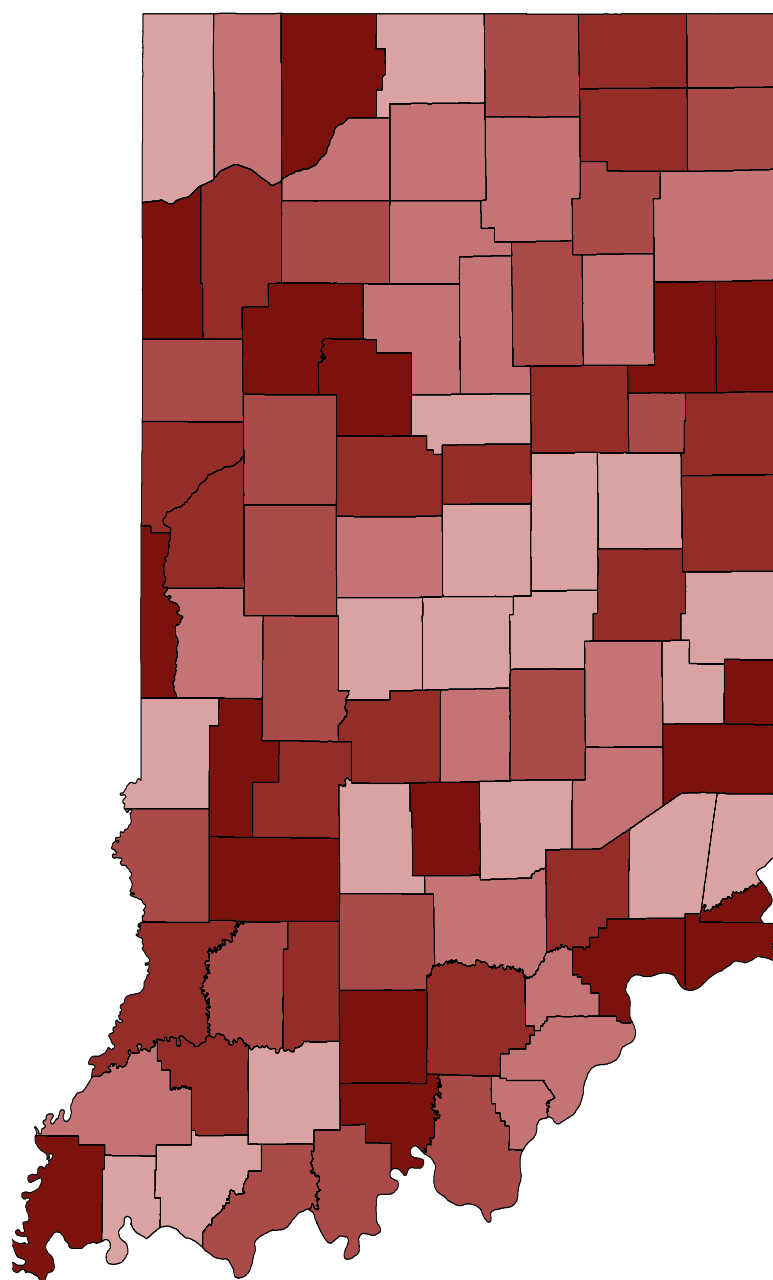
Source: Indiana Physician Re-licensure Survey, 2015

Notes: The darker the color the greater the need in a specific geographic area. The darkest red represents 0-3.7 primary care physician FTE whereas the lightest red indicates 43.5-672.7 FTE.

Total FTE

0.0 - 3.7
3.8 - 8.3
8.4 - 15.1
15.2 - 43.4
43.5 - 672.7

Map 3.2 Geographic representation of population per primary care physician full time equivalent



Source: Indiana Physician Re-licensure Survey, 2015

Notes: The darker the color the greater the need in a specific geographic area. The darkest red represents 5,802.6 or more residents per 1 primary care physician FTE whereas the lightest red indicates 487.1 to 1,958.0 residents per 1 primary care physician FTE.

Population per Provider

487.1 - 1958.0
1958.1 - 2651.0
2651.1 - 3514.6
3514.7 - 5802.5
5802.6 - 99999999.0

Urban vs Rural

Table 3.9: Primary Care Physician Distribution, Rurality

Rurality	Physician N	Population N
Rural principal practice location	482	1,387,097
Urban principal practice location	2,902	4,926,218
Non-Respondents	384	-
Total	3,768	6,313,315

Source: Indiana Physician Re-Licensure Survey, 2015 and American Community Survey (ACS), 2013.

Notes: The definition of Urban and Rural is defined by the United States Office of Management and Budget (OMB).

Table 3.10: Primary Care Physician Demographics by Rurality

	Urban		Rural		Non-Respondents		State	
Mean Age	49.9		51.7		52.4		50.3	
Female Age Groups	N	%	N	%	N	%	N	%
Under 35	221	16.9	26	17.0	1	6.7	248	16.8
35- 44	503	38.4	50	32.7	9	60.0	562	38.0
45 - 54	338	25.8	41	26.8	2	13.3	381	25.8
55 - 64	196	15.0	28	18.3	2	13.3	226	15.3
Over 65	42	3.2	6	3.9	1	6.7	49	3.3
Non-Respondents	11	0.8	2	1.3	0	0.0	13	0.9
Total	1,311	100.0	153	100.0	15	100.0	1,479	100.0
Male Age Groups								
Under 35	189	10.6	13	3.9	1	2.2	203	9.4
35- 44	383	21.5	54	16.3	14	31.1	451	20.9
45 - 54	457	25.7	92	27.8	6	13.3	555	25.7
55 - 64	461	25.9	106	32.0	10	22.2	577	26.8
Over 65	272	15.3	62	18.7	13	28.9	347	16.1
Non-Respondents	18	1.0	4	1.2	1	2.2	23	1.1
Total	1,780	100.0	331	100.0	45	100.0	2,156	100.0
Gender Non-Respondents								
Total	109	100.0	20	100.0	4	100.0	133	100.0
Total Age Groups								
Under 35	416	13.0	42	8.3	2	3.1	460	12.2
35- 44	912	28.5	106	21.0	23	35.9	1,041	27.6
45 - 54	824	25.8	138	27.4	9	14.1	971	25.8
55 - 64	689	21.5	143	28.4	14	21.9	846	22.5
Over 65	330	10.3	69	13.7	15	23.4	414	11.0
Non-Respondents	29	0.9	6	1.2	1	1.6	36	1.0
Total	3,200	100.0	504	100.0	64	100.0	3,768	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Age and Gender Categories calculation based on primary practice address. See table Table 1.1 for FTE conversion.

Psychiatry Physician Workforce

Numerous factors influence psychiatric workforce capacity in Indiana and nationwide. The American Academy of Child and Adolescent Psychiatry Task Force on Workforce Needs recently identified a number of issues which have a direct and negative influence on supply, including: 1) inadequate support in academic institutions; 2) decreasing graduate medical education (GME) funding; 3) decreasing clinical revenues in the managed care environment; and 4) a devalued image of the profession. These, among others, are important issues that should be considered in Indiana's mental health workforce policy discussions.

This section focuses on the psychiatric physician workforce and presents data on demographic and practice characteristics, education, supply data, and geographic distribution. Psychiatric physicians were defined as physicians who are certified in psychiatry or child psychiatry which is consistent with HRSA's definition of Core Mental Health Professional psychiatrist definition.

Highlights

- 47 Indiana counties do not have any practicing psychiatrists
- Only 4% of the physician workforce specializes in psychiatry
- Indiana only has 45 physicians working in child psychiatry
- Almost half (48%) of psychiatrists do not accept a sliding fee scale
- 20% of psychiatrists do not accept Indiana Medicaid

Table 4.1: Proportion of Physician Workforce in Psychiatry

Specialty	N	%
Psychiatry	403	4.0
Non Psychiatric Physicians	9,654	96.0
Total	10,057	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Psychiatry includes Psychiatry (General) and Child Psychiatry.

Proportion of Physician Workforce in Psychiatry

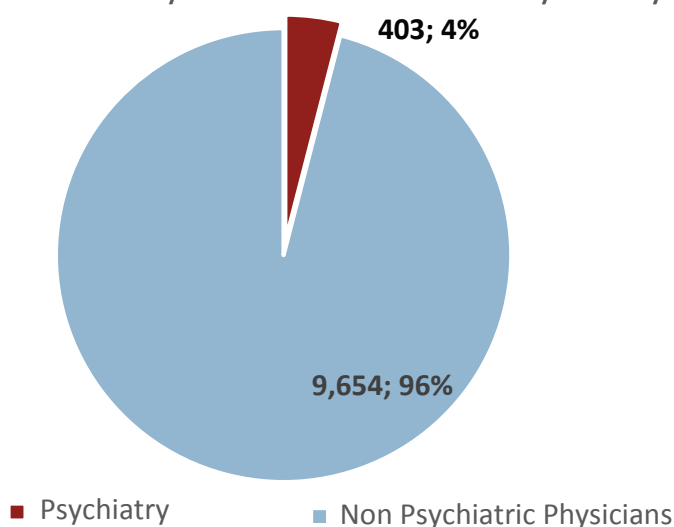


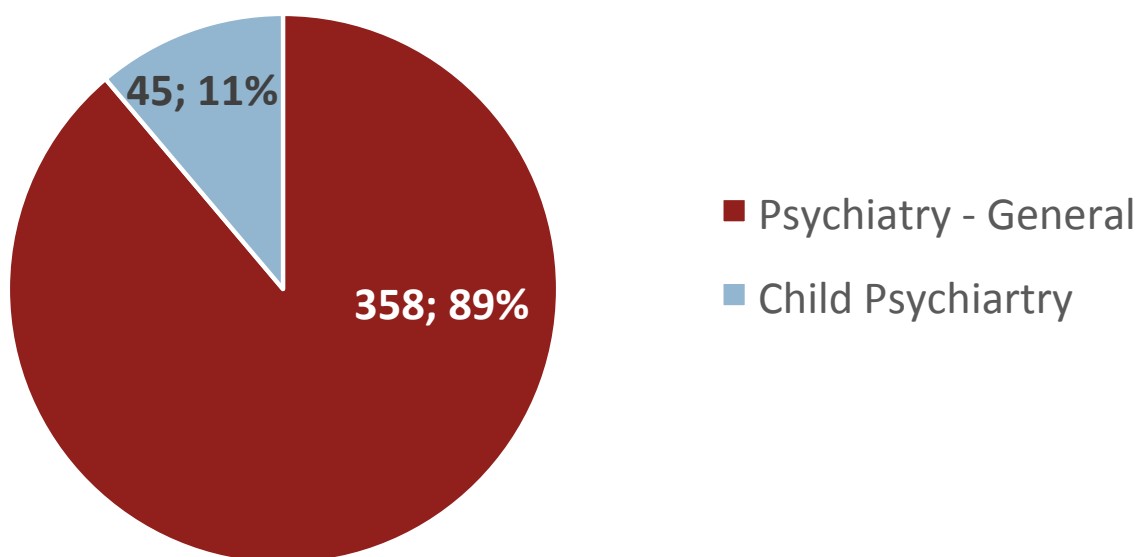
Table 4.2: Breakdown of Psychiatric Sub Specialties

Specialty	N	%
Psychiatry (General)	358	89.0
Child Psychiatry	45	11.0
Total	403	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Psychiatry includes Psychiatry (General) and Child Psychiatry.

Proportion of Physician Workforce in Psychiatry



Demographic Characteristics

Table 4.3: Psychiatrist Demographic Characteristics

	Female		Male		Non-Respondents		Total	
Mean Age	50.1		50.3		48.0		49.5	
	N	%	N	%	N	%	N	%
Age Groups								
Under 35	11	7.2	10	4.2	0	0.0	21	5.2
35-44	34	22.4	42	17.7	2	14.3	78	19.4
45-54	43	28.3	53	22.4	4	28.6	100	24.8
55-64	47	30.9	75	31.6	7	50.0	129	32.0
Over 65	14	9.2	56	23.6	1	7.1	71	17.6
Non-Respondents	3	2.0	1	0.4	0	0.0	4	1.0
Total	152	100.0	237	100.0	14	100.0	403	100.0
Ethnicity								
Hispanic or Latino	3	2.0	11	4.6	0	0.0	14	3.5
Not Hispanic or Latino	148	97.4	226	95.4	14	100.0	388	96.3
Non-Respondents	1	0.7	0	0.0	0	0.0	1	0.2
Total	152	100.0	237	100.0	14	100.0	403	100.0
Race								
White	103	67.8	164	69.2	9	64.3	276	68.5
Asian	27	17.8	47	19.8	3	21.4	77	19.1
Black or African American	14	9.2	11	4.6	1	7.1	26	6.5
Multiracial	0	0.0	3	1.3	0	0.0	3	0.7
Native Hawaiian/Pacific Islander	1	0.7	1	0.4	0	0.0	2	0.5
American Indian or Alaska Native	0	0.0	0	0.0	0	0.0	0	0.0
Other	6	3.9	11	4.6	1	7.1	18	4.5
Non-Respondents	1	0.7	0	0.0	0	0.0	1	0.2
Total	152	100.0	237	100.0	14	100.0	403	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Gender was not provided for every respondent by Indiana Professional Licensing Agency (IPLA). Age was calculated from the date of birth provided by IPLA. Survey completion date was used for calculation of respondents age.

*Professional and Practice Characteristics**Table 4.4: Psychiatrist Practice Settings and Locations*

Primary Practice Type	N	%
Hospital - Inpatient	81	20.1
Office/Clinic - Single Specialty Group	73	18.1
Office/Clinic - Solo Practice	56	13.9
Federal/State/Community Health Center(s)	41	10.2
Hospital - Outpatient	40	9.9
Office/Clinic - Multi Specialty Group	36	8.9
Other	33	8.2
Office/Clinic - Partnership	11	2.7
Medical School	9	2.2
Federal Government Hospital	7	1.7
Telemedicine	5	1.2
Home Health Setting	1	0.2
Hospital - Ambulatory Care Center	1	0.2
Hospital - Emergency Department	1	0.2
Nursing Home or Extended Care Facility	1	0.2
Volunteer in a Free Clinic	1	0.2
Hospice Care	0	0.0
Local Health Department	0	0.0
Research Laboratory	0	0.0
Non-Respondents	6	1.5
Total	403	100.0
Number of Practice Locations		
One	312	77.4
Two	66	16.4
Three	25	6.2
Non-Respondents	0	0.0
Total	403	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Primary Practice Type was not provided by every respondent. Not every respondent had a primary practice address in Indiana.

Table 4.5: Psychiatrist Average Hours/Week in Patient Care, All Practice Locations

Average Hours/Week in Patient Care, All Practice Locations	N	%
0 hours per week	12	3.0
1-4 hours per week	11	2.7
5-8 hours per week	14	3.5
9-12 hours per week	15	3.7
13-16 hours per week	14	3.5
17-20 hours per week	26	6.5
21-24 hours per week	31	7.7
25-28 hours per week	29	7.2
29-32 hours per week	47	11.7
33-36 hours per week	44	10.9
37-40 hours per week	96	23.8
41 or more hours per week	54	13.4
Non-Respondents	10	2.5
Total	403	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Table 4.6: Psychiatrist Patient Population, Primary Practice Location

Sliding fee patient population (Primary Practice)	N	%
I do not offer a sliding fee scale	182	45.2
Sliding fee patients account for 0% - 5% of my practice	62	15.4
Sliding fee patients account for 6% - 10% of my practice	33	8.2
Sliding fee patients account for 11% - 20% of my practice	37	9.2
Sliding fee patients account for 21% - 30% of my practice	24	6.0
Sliding fee patients account for 31% - 50% of my practice	10	2.5
Sliding fee patients account for greater than 50% of my practice	25	6.2
Non-Respondents	30	7.4
Total	403	100.0
Medicaid patient population (Primary Practice)		
I do not accept Indiana Medicaid	77	19.1
Indiana Medicaid accounts for 0% - 5% of my practice	49	12.2
Indiana Medicaid accounts for 6% - 10% of my practice	9	2.
Indiana Medicaid accounts for 11% - 20% of my practice	33	8.2
Indiana Medicaid accounts for 21% - 30% of my practice	38	9.4
Indiana Medicaid accounts for 31% - 50% of my practice	68	16.9
Indiana Medicaid accounts for greater than 50% of my practice	110	27.3
Non-Respondents	19	4.7
Total	403	100.0

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Data on Sliding Fee Scale and Medicaid Patient Populations was not provided by every respondent. Not every respondent had a primary practice address in Indiana.

Educational Information

Table 4.7: Education/Training Characteristics

Location of Training Program	N (%)	
	Medical School	Residency
Indiana	134 (33.3%)	136 (34.0%)
Contiguous State	78 (19.4%)	102 (25.3%)
Other US State	75 (18.6%)	157 (39.0%)
Another Country	113 (28.0%)	4 (1.0%)
Non-Respondents	3 (0.7%)	4 (1.0%)
Total	403 (100%)	403 (100%)

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Contiguous states include Illinois, Kentucky, Michigan and Ohio.

Supply and Geographic Distribution

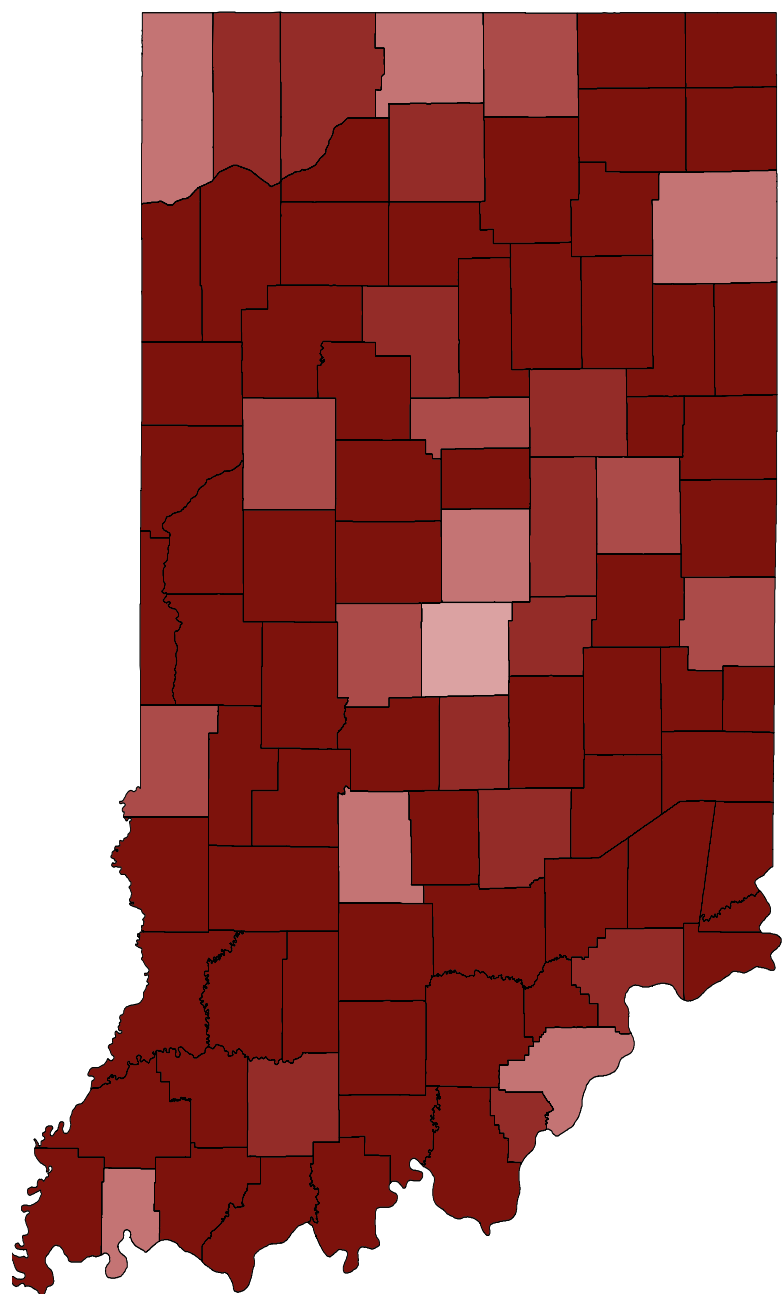
Table 4.8: Psychiatrist Geographic Distribution by Public Health Region

	All Physicians		Psychiatrist	
	FTEs	*PPR	Psych FTEs	*PPR
State - Indiana	7,940.8	792.8	293.1	20,074.0
Region 1	828.6	963.7	31.2	25,593.0
Region 2	265.4	2,366.6	14.0	44,863.2
Region 3	586.8	1,200.4	18.9	37,270.1
Region 4	241.7	1,432.7	12.5	27,703.3
Region 5	3,188.9	532.0	104.5	16,233.6
Region 6	634.3	954.6	30.2	20,049.3
Region 7	196.9	1,325.4	8.4	31,067.5
Region 8	411.7	851.1	17.4	20,136.7
Region 9	390.3	1,142.4	16.0	27,868.1
Region 10	606.1	525.6	21.3	14,957.5
Non-Respondents	590.1	Not Available	18.7	Not Available

Source: Indiana Physician Re-Licensure Survey, 2015

Notes: Physicians that did not have a primary practice address in Indiana were not assigned to a public health region. All Physicians are defined as physicians who completed the survey regardless of specialty. Psychiatry includes Psychiatry (General) and Child Psychiatry. *PPR (Population to Provider Ratio)

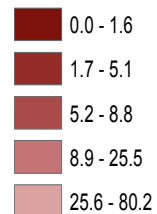
Map 4.1 Geographic distribution of psychiatrist full time equivalent



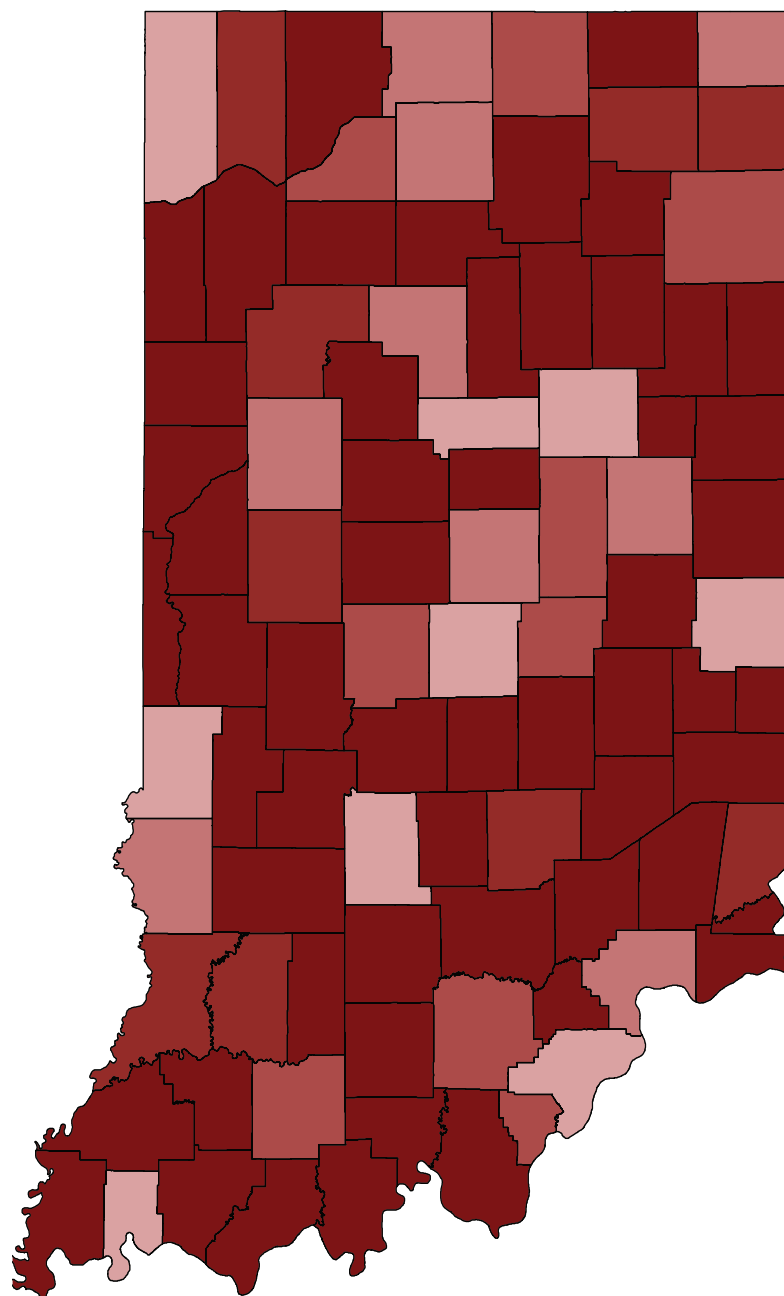
Source: Indiana Physician Re-licensure Survey, 2015

Notes: The darker the color the greater psychiatrist FTE in a specific geographic area. The darkest red represents 0-1.6 psychiatrist FTE whereas the lightest red indicates 25.8-80.2 psychiatrist FTE.

Total FTE



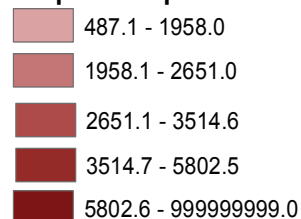
Map 4.2 Geographic representation of population per psychiatrist full time equivalent



Source: Indiana Physician Re-licensure Survey, 2015

Notes: The darker the color the greater the need in a specific geographic area. The darkest red represents 0-1.6 psychiatrist FTE whereas the lightest red indicates 25.8-80.2 psychiatrist FTE.

Population per Provider



Urban vs Rural

Table 4.9: Psychiatrist Distribution, Rurality

Rurality	Physician N	Population N
Rural principal practice location	32	1,387,097
Urban principal practice location	335	4,926,218
Non-Respondents	36	-
Total	403	6,313,315

Source: Indiana Physician Re-Licensure Survey, 2015 and American Community Survey (ACS), 2013.

Notes: The definition of Urban and Rural is defined by the United States Office of Management and Budget (OMB).

Table 4.10: Gender and Age by Rurality

	Urban		Rural		Non-Respondents		State	
Mean Age	50.3		52.1		51.4		51.3	
Female Age Groups	N	%	N	%	N	%	N	%
Under 35	11	8.1	0	0.0	0	0.0	11	7.2
35- 44	30	22.1	2	15.4	2	66.7	34	22.4
45 - 54	40	29.4	3	23.1	0	0.0	43	28.3
55 - 64	39	28.7	7	53.8	1	33.3	47	30.9
Over 65	13	9.6	1	7.7	0	0.0	14	9.2
Non-Respondents	3	2.2	0	0.0	0	0.0	3	2.0
Total	136	100.0	13	100.0	3	100.0	152	100.0
Male Age Groups								
Under 35	9	4.4	1	3.6	0	0.0	10	4.2
35- 44	36	17.5	6	21.4	0	0.0	42	17.7
45 - 54	45	21.8	7	25.0	1	33.3	53	22.4
55 - 64	64	31.1	9	32.1	2	66.7	75	31.6
Over 65	51	24.8	5	17.9	0	0.0	56	23.6
Non-Respondents	1	0.5	0	0.0	0	0.0	1	0.4
Total	206	100.0	28	100.0	3	100.0	237	100.0
Gender Non-Respondents								
Total	10	100.0	3	100.0	1	100.0	14	100.0
Total Age Groups								
Under 35	20	5.7	1	2.3	0	0.0	21	5.2
35- 44	68	19.3	8	18.2	2	28.6	78	19.4
45 - 54	88	25.0	11	25.0	1	14.3	100	24.8
55 - 64	108	30.7	17	38.6	4	57.1	129	32.0
Over 65	64	18.2	7	15.9	0	0.0	71	17.6
Non-Respondents	4	1.1	0	0.0	0	0.0	4	1.0
Total	352	100.0	44	100.0	7	100.0	403	100.0

Source: Indiana Physician Re-Licensure Survey, 2015 **Notes:** Age and Gender Categories calculation based on Primary Practice Address. See table 1.1 for FTE conversion.