2017 Indiana Physician Licensure Survey
Data Report

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Objectives

• Briefly describe the Bowen Center for Health Workforce Research and Policy
• Provide overview of history of Indiana physician workforce data
• Describe current physician workforce data management strategies
• Discuss highlights from the 2017 Data Report
Bowen Center for Health Workforce Research and Policy (Bowen Center)

Indiana University School of Medicine
Bowen Center: Who we are

- Housed within the Department of Family Medicine at IUSM
- Offices located in Long Hall
- Team of people (and partners) with training and expertise in public health, policy, informatics, biostatistics, and geographic information systems
Bowen Center: What we do

• Data Coordination
  – Steward data on licensed health professions for State of Indiana
  – Produce and disseminate reports/white papers/etc.
  – Provide technical assistance to state and stakeholders
  – Manage federal health professional shortage area designation activities

• Policy Coordination
  – Support Governor’s Health Workforce Council
  – Perform research and policy analyses
  – Provide ad hoc technical assistance
Bowen Center: Data resources
History of Indiana Physician Workforce Data
History of Physician Data in Indiana

First (identifiable) “report” on Indiana physicians was generated in 1975

Reporting Entity Timeline

- 1990’s - Indiana Health Care Professional Development Commission
- 2000’s – Bowen Research Center/Indiana University
- 2016 – Bowen Center for Health Workforce Research and Policy/Indiana University
Data Sources/Management

– Early reporting relied on national data sources (AMA) and license information

– License renewal surveys were implemented in the 1997 by Indiana Health Care Professional Development Commission and the Health Professions Board

– Beginning 2019 selected license renewal survey questions will be required
Current Physician Workforce Data Management Strategies
Data Sources

• License
  – License number
  – Name (first, last)*
  – Date of birth*
  – Initial license date*
  – Expiration date
    • *Variables collected at initial license application

• License renewal survey (modeled after HRSA Minimum Data Set Tool for Physicians)
  – Demographic (gender, race, ethnicity,)
  – Educational (location of DDS and residency training)
  – Practice (employment status, specialty, setting, hours in patient care, safety-net participation)
Methods

• Data files (license and survey) are cleaned and coded
• Data sets are merged using license number as the unique identifier
• License addresses are geocoded
• Data are stored in relational tables within the Indiana Health Professions Database
Additional Considerations

• Data Security
  – All data stored on an encrypted server
  – Only aggregated information reported

• Length of time between renewal period and report dissemination
  – Historically, 2 years
  – Current report, 6 months
Who is included in the report?

**Include**

- 27,473 Total renewing licenses
- 27,004 (98.3%) held active, valid to practice while under review or probationary licenses
- 22,222 (80.9%) Held an active or probationary or license
- 17,912 (65.2%) Reported actively working in medicine
- 11,085 (40.3%) Reported an Indiana licensure address

**Exclude**

- 469 Held inactive licenses
- 4,782 did now respond to the survey
- 4,310 Did not report actively working in medicine
- 6,827 Did not report an Indiana licensure address

Source: 2017 Indiana Physician Licensure Survey Data Report, Figure 1.1: 2017 Physician Survey Sample Selection Criteria (page 3)
Indiana Physician Demographics

INDIANA PHYSICIAN DEMOGRAPHICS: DISTRIBUTION BY GENDER AND AGE

Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.1 Physician Demographic Characteristics (page 5)
Indiana Physician Demographics

Representation by Race

- White: 72.7%
- Asian: 13.7%
- Other: 5.4%
- Black or African American: 4.4%

Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.1 Physician Demographic Characteristics (page 5)
Indiana Physicians Educational Characteristics

Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.2 Physician Education and Training Characteristics (page 6)
Indiana Physicians Practice Settings

Top 5 Practice Setting

19.9% Hospital - Inpatient
15.7% Office/Clinic – Single Specialty
14.8% Office/Clinic – Multi Specialty
10% Hospital – Ambulatory Care
9.6% Office/Clinic Solo Practice

Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.3 Physician Practice Setting and Locations (page 6)
Indiana Physician Specialties

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine/General Practice</td>
<td>17.1%</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>10.5%</td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>8%</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>6.6%</td>
</tr>
<tr>
<td>Pediatric (General)</td>
<td>5.3%</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>3.8%</td>
</tr>
</tbody>
</table>

Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.3 Physician Specialty (page 7)
Indiana Primary Care Physicians

- 4,075 Physicians reported a primary care specialty (*HRSA definition*)
  - 1,899, Family Medicine/General Practice
  - 1,161, Internal Medicine (Genera)
  - 593, Pediatrics (General)
  - 422, Obstetrics and Gynecology
Indiana Psychiatrists

- 433 Physicians reported Psychiatry as specialty
  - 394 General
  - 39 Child
- 54.1 years is the mean age of psychiatrists
  - All physicians 50.5, primary care 49.8

Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.2 (page 6), Table 3.2 (page 14), and Table 4.2 (page 19)
Indiana Physician Data: Policy

• Senate Enrolled Act 223

  Requires specified licensed health practitioners to provide certain information including educational and practice characteristics when renewing the practitioner's professional license online.
Discussion/Questions

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