# 2017 Indiana Physician Licensure Survey Data Report

Hannah Maxey, PhD, MPH, RDH
Bowen Center for Health Workforce Research and Policy



#### 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

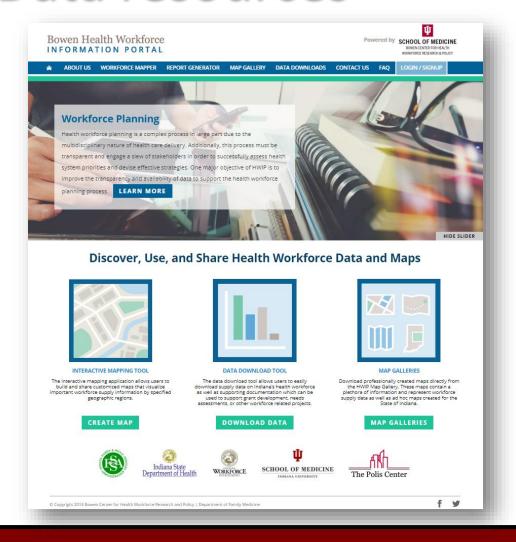
- Steward data on licensed health professions for State of Indiana
- Produce and disseminate reports/white papers/etc.
- Provide technical assistance to state and stakeholders
- Manage federal health professional shortage area designation activities

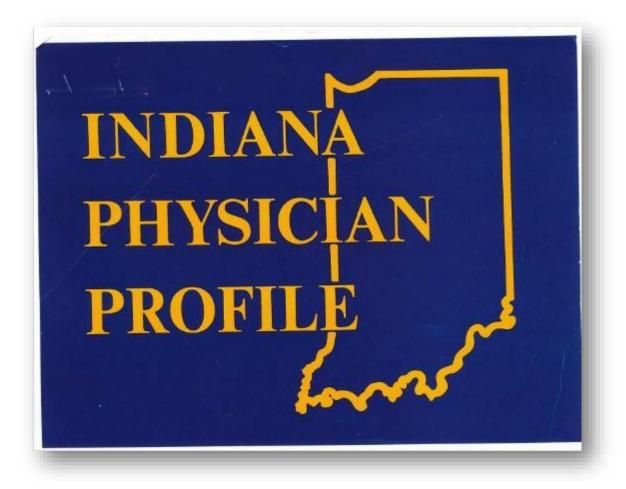
#### Policy Coordination

- Support Governor's Health Workforce Council
- Perform research and policy analyses
- Provide ad hoc technical assistance

#### **Bowen Center: Data resources**

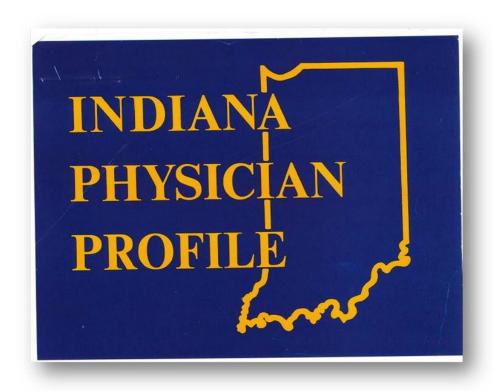






History of Indiana Physician Workforce Data

# History of Physician Data in Indiana

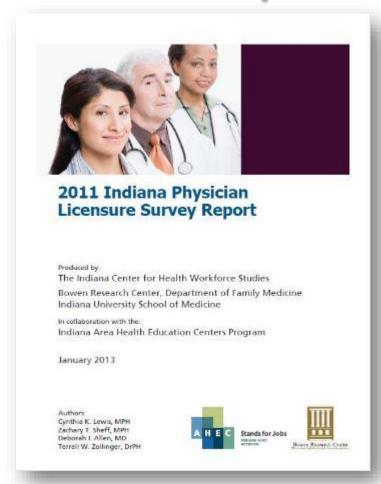


First (identifiable) "report" on Indiana physicians was generated in 1975

#### 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

#### History of Physician Data in Indiana



#### **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)\*
  - Data 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

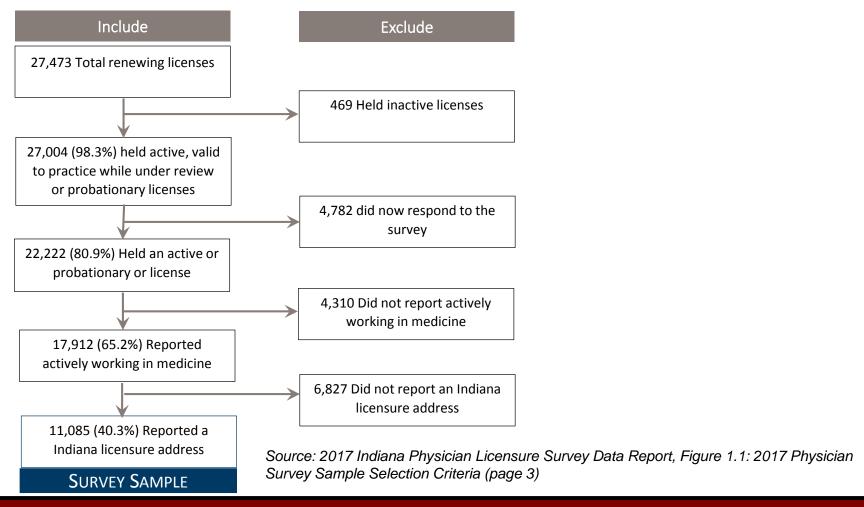
#### **Additional Considerations**

- 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

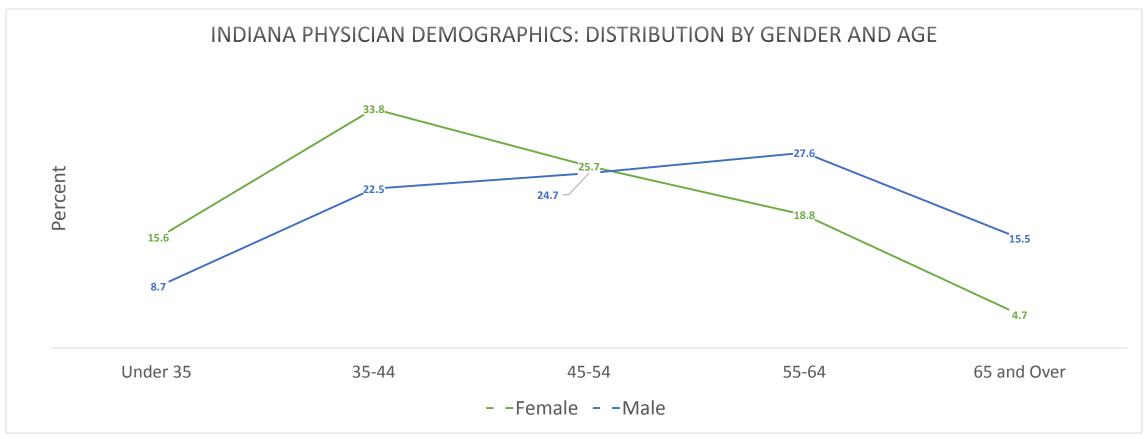


2017 Indiana Physician Licensure Survey Data Report

#### Who is included in the report?



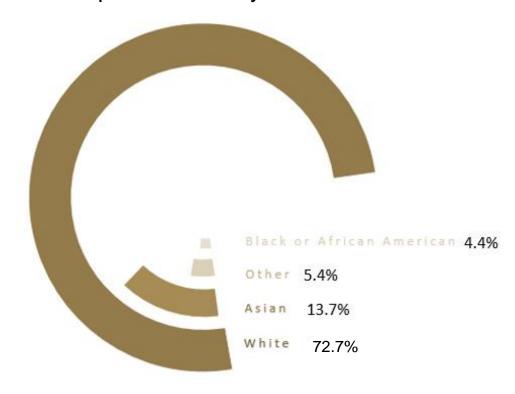
# Indiana Physician Demographics



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



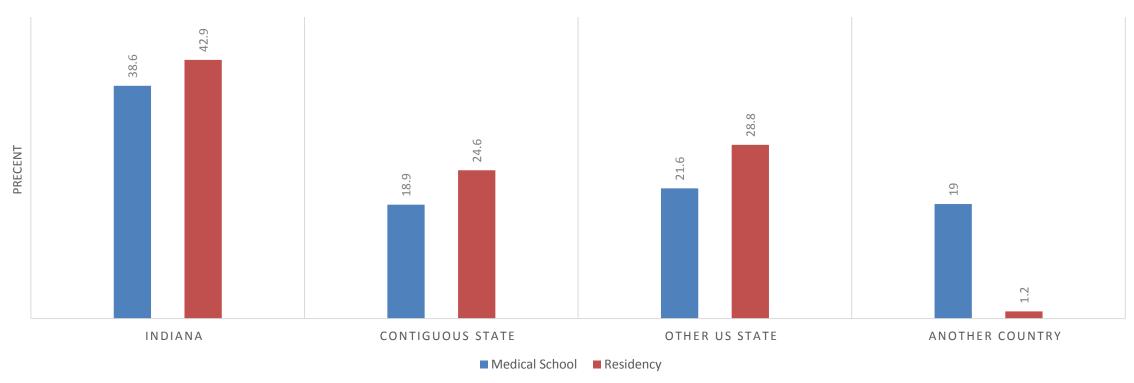
Source: Data used to generate this figure came from the 2017 Indiana Physician Licensure Survey Data Report, Table 2.1 Physician Demographic Characteristics (page 5)

# Indiana Physician Demographics



#### Indiana Physicians Educational Characteristics

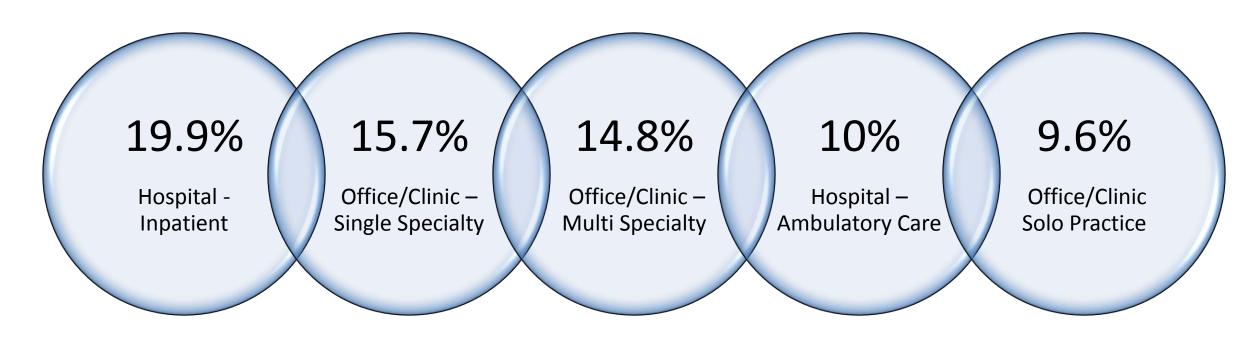
#### TRAINING LOCATION



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



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)

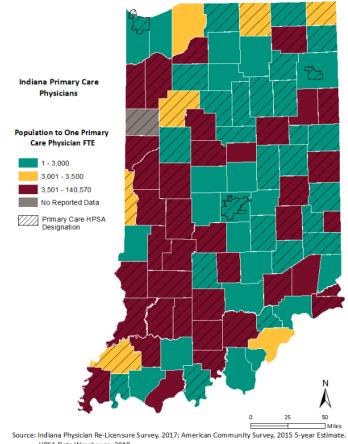
#### Indiana Physician Specialties

17.1%	Family Medicine/General Practice
10.5%	Internal Medicine
8%	Anesthesiology
6.6%	Emergency Medicine
5.3%	Pediatric (General)
3.8%	Obstetrics and Gynecology

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

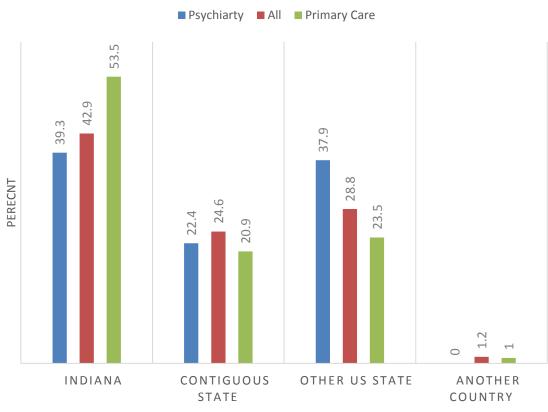


HRSA Data Warehouse, 2018

# 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

#### LOCATION OF RESIDENCY TRAINING



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

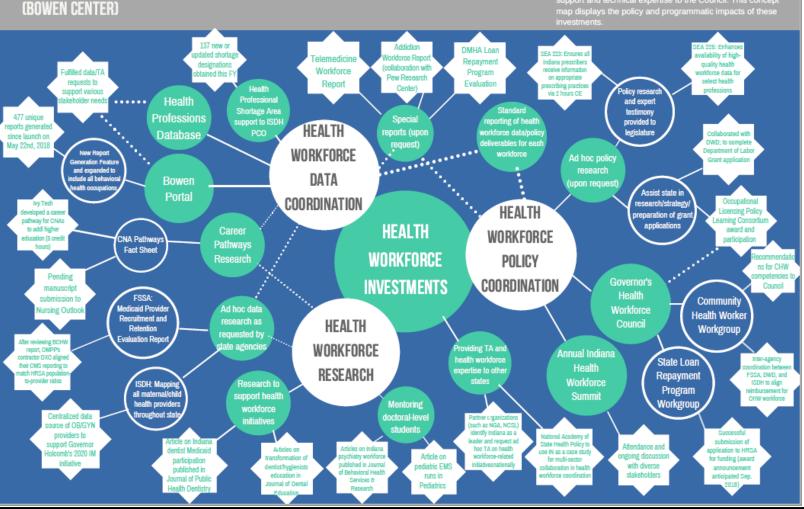
Senate Enrolled Act 223

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

# MAPPING THE IMPACT OF STATE INVESTMENT IN HEALTH WORKFORCE COORDINATION: JUL 2017-JUN 2019

BOWEN CENTER FOR HEALTH WORKFORCE RESEARCH & POLICY (ROWEN CENTER)

The State of Indiana began investments in health workforce data and policy coordination initiatives in FY 2015-2017 after Indiana's participation in the National Governor's Association Health Workforce Policy Academy (2015). (Former) Governor Pence established the Governor's Health Workforce Council to serve as the health workforce policy coordinating entity for the state. The Bowen Center manages health workforce data coordination on behalf of the state and provides administrative support and technical expertise to the Council. This concept map displays the policy and programmatic impacts of these investments.







# Discussion/Questions

Contact: <a href="maxey@iupui.edu">hlmaxey@iupui.edu</a> or 317-278-6696