

# INDIANA ORAL HEALTH WORKFORCE ADVISORY GROUP

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# OBJECTIVES

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- Welcome and Introductions
- Bowen Center for Health Workforce Research & Policy (Bowen Center) Roles and Responsibilities
- Overview of 2020 Dental License Renewal Survey Tool, 2020 Dental Hygienists License Renewal Survey Tool
- Presentation and Discussion of 2020 Indiana Oral Health Workforce Data Report
- Discussion of Upcoming Indiana Oral Health Workforce Brief
- Data Visualization Efforts
- Next Steps



# WELCOME AND INTRODUCTIONS

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## State Government:

- Indiana Department of Health
- Indiana State Board of Dentistry

## Academia:

- Indiana University School of Dentistry
- Ivy Tech Community College

## Trade Associations:

- Indiana Dental Association
- Indiana Dental Hygienists' Association

## Guests



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# BOWEN CENTER FOR HEALTH WORKFORCE RESEARCH AND POLICY

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## Roles & Responsibilities



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# BOWEN CENTER: WHO WE ARE



- Housed within the Department of Family Medicine at IU School of Medicine
- Offices located in Long Hall (IUPUI)
- Team of people (and partners) with training and expertise in public health, policy, informatics, biostatistics, and geographic information systems



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# BOWEN CENTER: WHAT WE DO

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- **Data Stewardship**
  - Steward data on licensed health professions for State of Indiana
  - Produce and disseminate reports/white papers/etc.
  - Provide technical assistance to state leadership/ legislators/agencies and stakeholders
  - Manage health professional shortage area designation activities for the State of Indiana
- **Policy Research and Technical Assistance**
  - Support Governor's Health Workforce Council
  - Perform research and policy analyses
  - Provide ad hoc technical assistance



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# BRIEF HISTORY OF INDIANA ORAL HEALTH WORKFORCE DATA

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# HISTORY OF ORAL HEALTH DATA IN INDIANA

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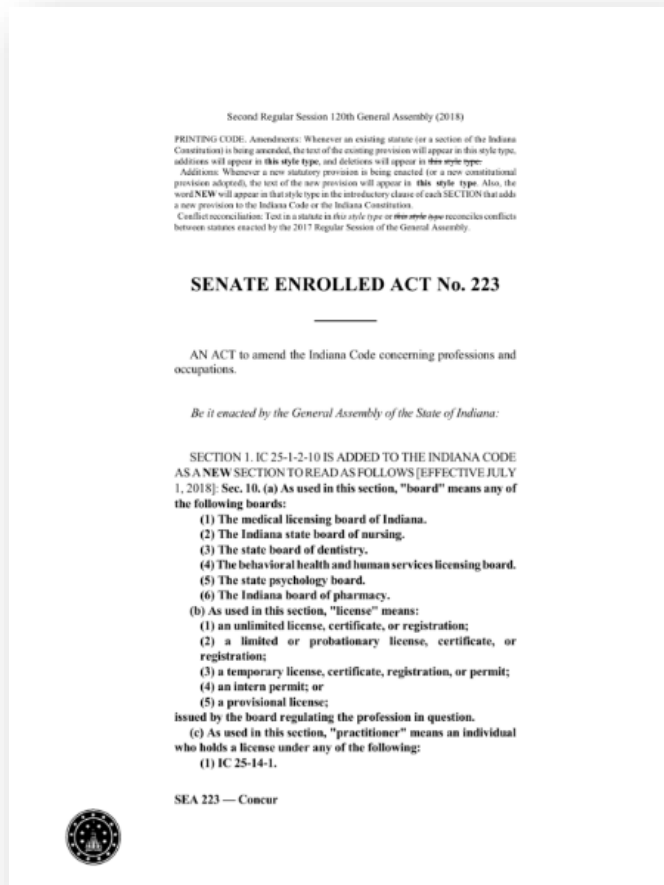
## Data Sources/Management

- Voluntary license renewal surveys were implemented in 1997 by Indiana Health Care Professional Development Commission and the Health Professions Board





# SENATE ENROLLED ACT 223-2018



## “Information provided by health practitioners” (including dentists, dental hygienists)

Requires online licensees to provide select information during license renewal:

1. Specialty/field of practice
2. Location
3. Setting type
4. Hours worked per week
5. Services provided
6. Educational/training
7. Telemedicine participation



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# OVERVIEW OF 2020 LICENSE RENEWAL SURVEY TOOLS

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# 2020 DENTISTS & DENTAL HYGIENE LICENSURE SURVEY TOOL

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## New Information

In 2020, two new questions were added to meet SEA 223-2018 requirements:

- Services provided
- Populations served

## Role of Advisory Group:

- Review survey tools
- Review data & provide input on reporting initiatives

**Governor's Health Workforce Council serves as ultimate review and approval body for the survey tool**

Surveys are accessible at:

- Dentists: <https://scholarworks.iupui.edu/bitstream/handle/1805/19710/2020%20Dentists%20Survey%20Instrument.pdf?sequence=1&isAllowed=y>
- Dental hygienists: <https://scholarworks.iupui.edu/bitstream/handle/1805/19709/2020%20Dental%20Hygienists%20Survey%20Instrument.pdf?sequence=1&isAllowed=y>



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# PRESENTATION AND DISCUSSION OF 2020 INDIANA ORAL HEALTH WORKFORCE DATA REPORT

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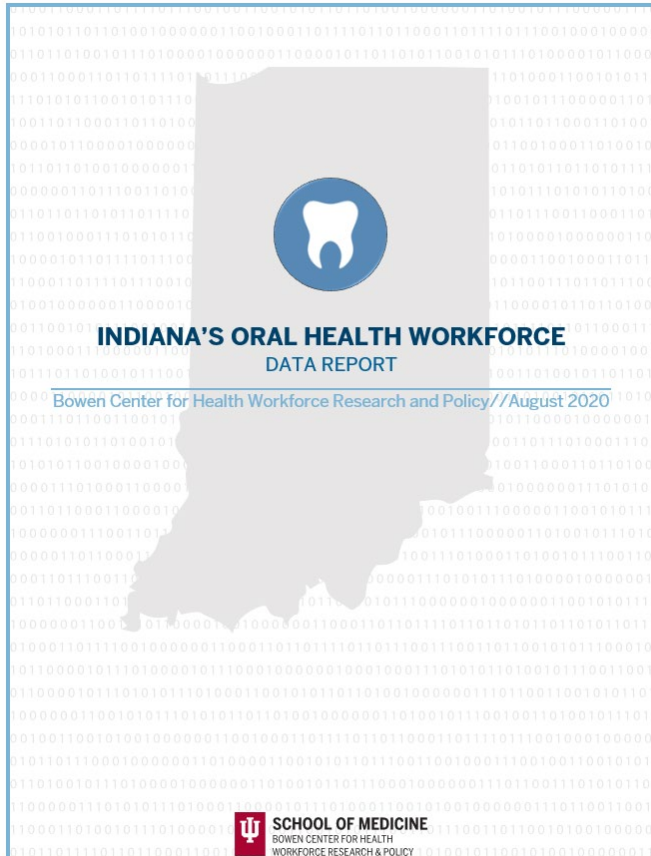


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# 2020 INDIANA ORAL HEALTH WORKFORCE DATA REPORT



## 4,020 Dentist License Renewals in 2020

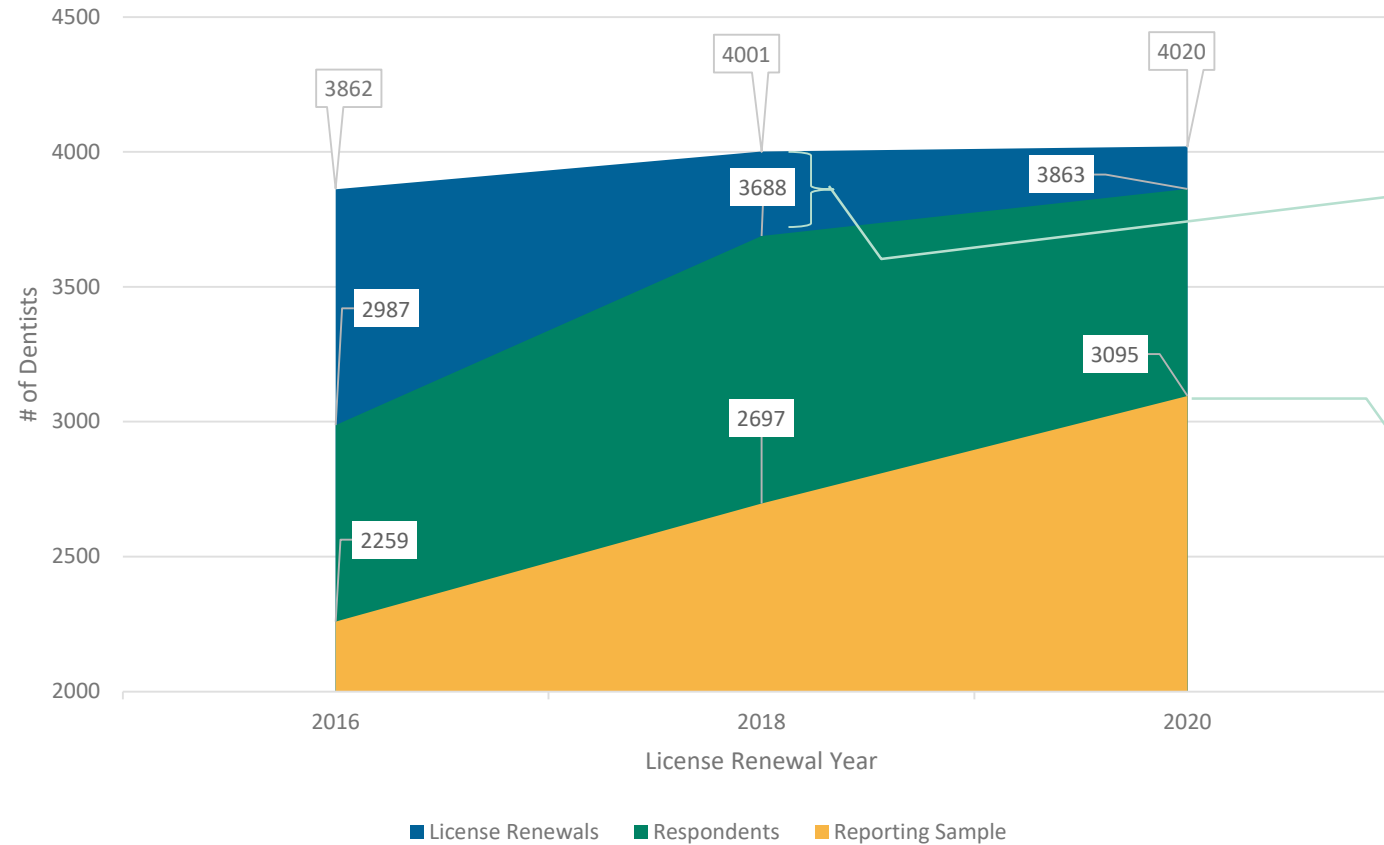
- 3,095 in reporting sample (145 were offline renewals; the remaining report not actively practicing or not providing services in Indiana)

## 5,034 Indiana Dental Hygienist License Renewals in 2020

- 3,908 in reporting sample (93 were offline renewals; the remaining report not actively practicing or not providing services in Indiana)



# TRENDS IN INDIANA DENTIST DATA



Indiana Dentists have historically had high response to the license renewal survey

## Why the large increase in dentists in 2020 reporting sample? Survey requirement & change in inclusion criteria.

In 2018, the reporting sample included those with a confirmed license address in Indiana. In 2020, practice address was used. SEA 223-2018 resulted in better information on dentists' practice data & geolocation services were improved. Number of renewals overall remained relatively unchanged.

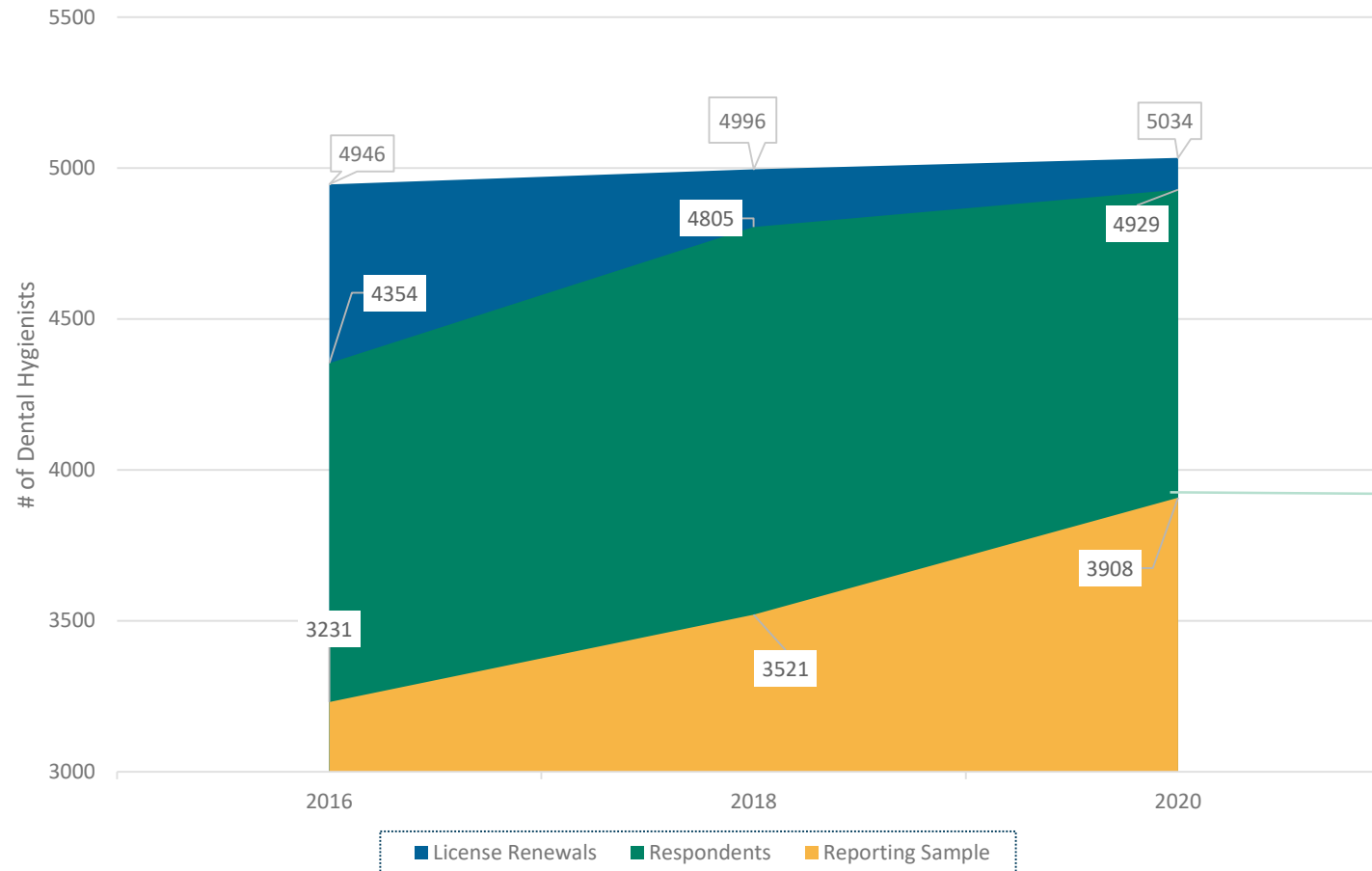
Source: 2016, 2018, and 2020 Oral Health Workforce Data Reports



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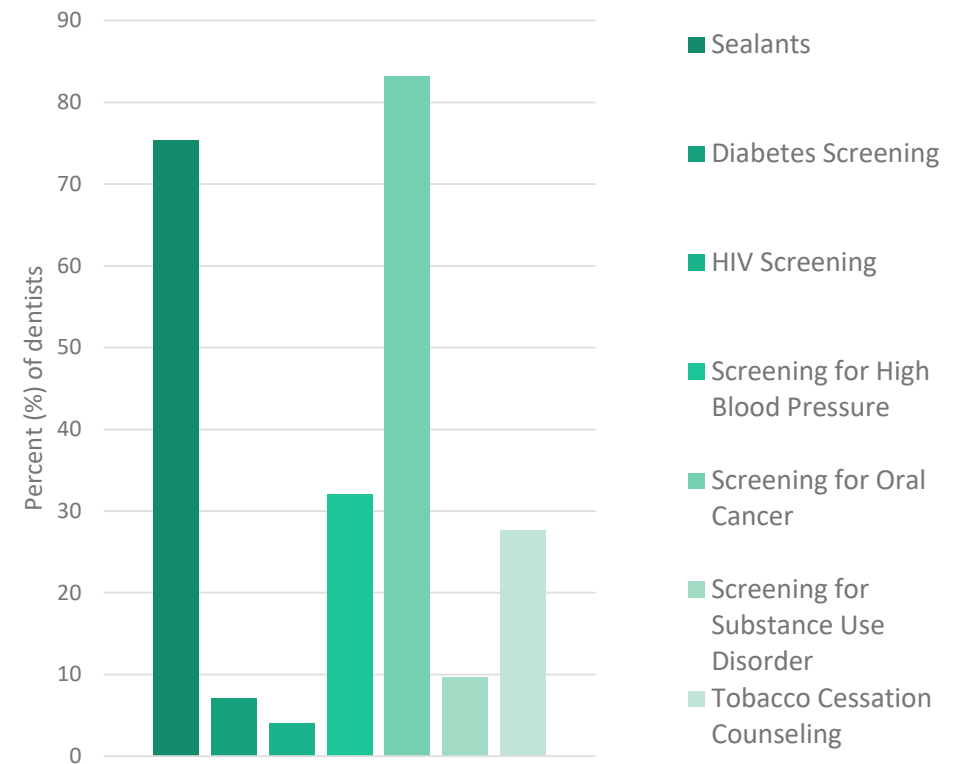
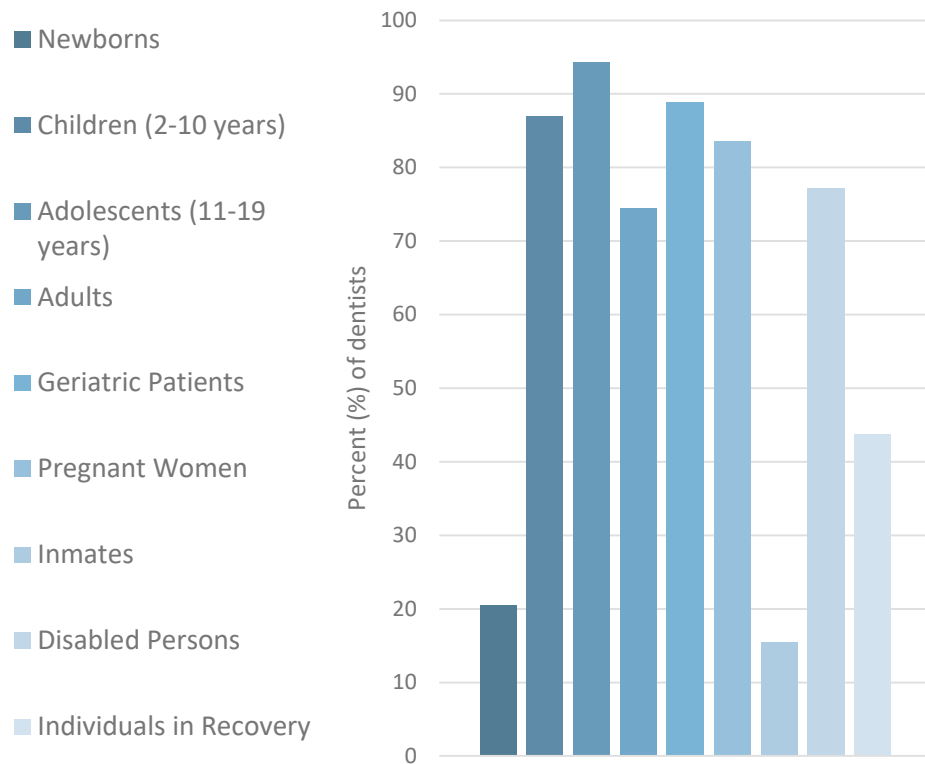
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# TRENDS IN INDIANA DENTAL HYGIENIST DATA



Indiana dental hygienists saw the same trend related to change in inclusion criteria.

# WHAT NEW DATA ARE AVAILABLE ON INDIANA'S ORAL HEALTH WORKFORCE? DENTISTS POPULATION & SERVICES



Source: Table 2.8 and 2.9 of 2020 Indiana Oral Health Workforce Data Report



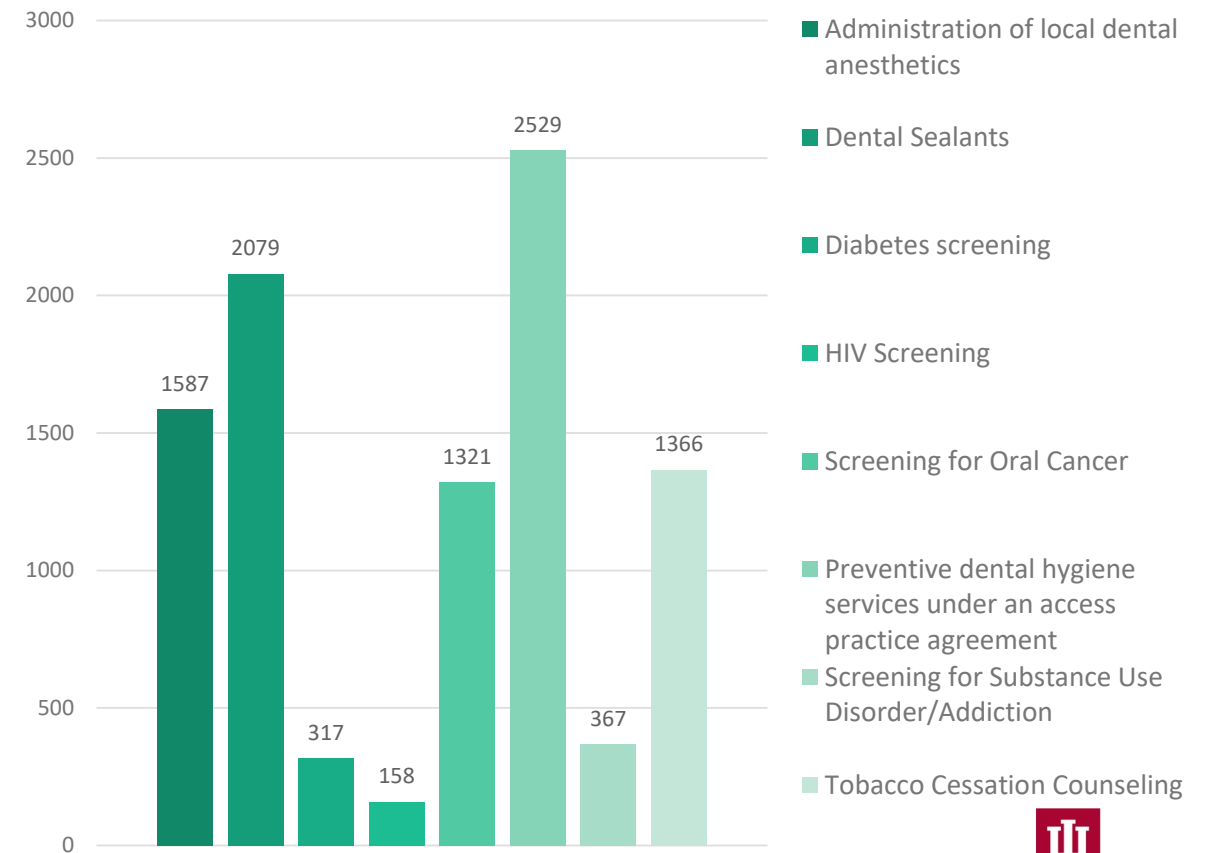
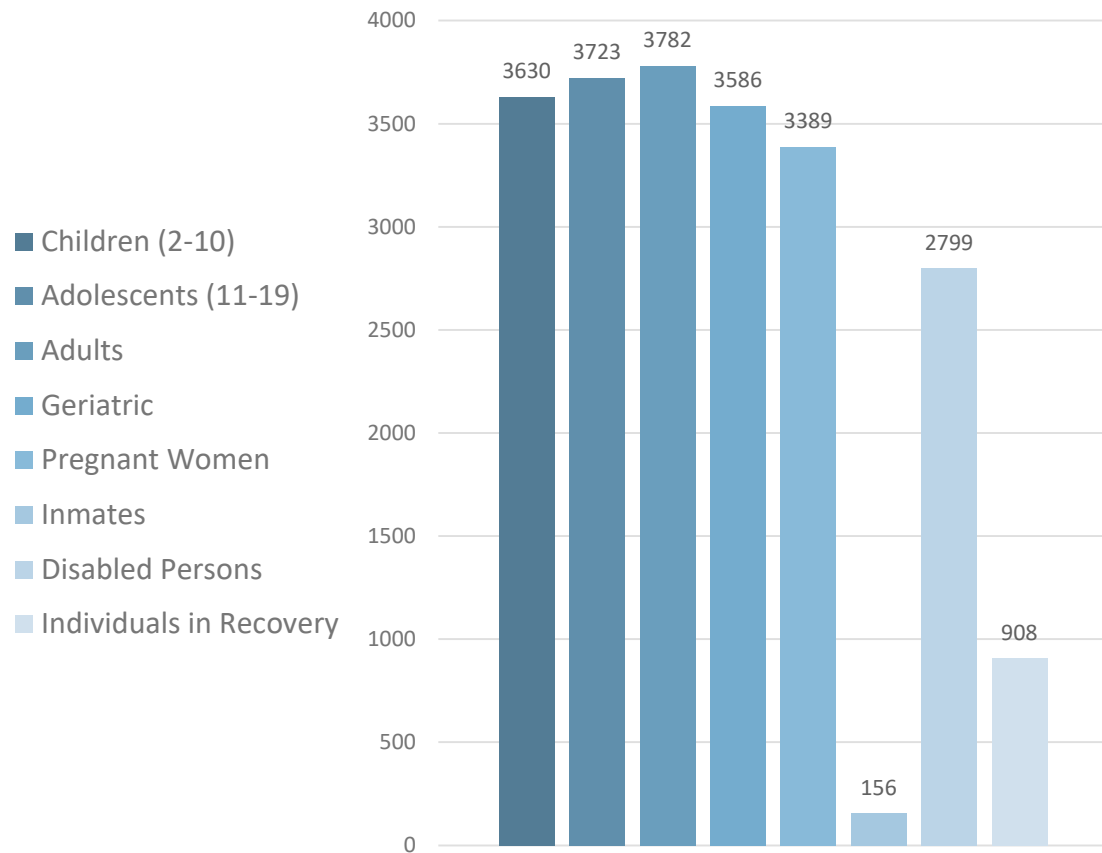
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# WHAT NEW DATA ARE AVAILABLE ON INDIANA'S ORAL HEALTH WORKFORCE?

## DENTIST HYGIENISTS POPULATION & SERVICES



Source: Figure 3.2 and 3.3 of 2020 Indiana Oral Health Workforce Data Report



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# KEY DATA HIGHLIGHTS IN UPCOMING ORAL HEALTH WORKFORCE BRIEF

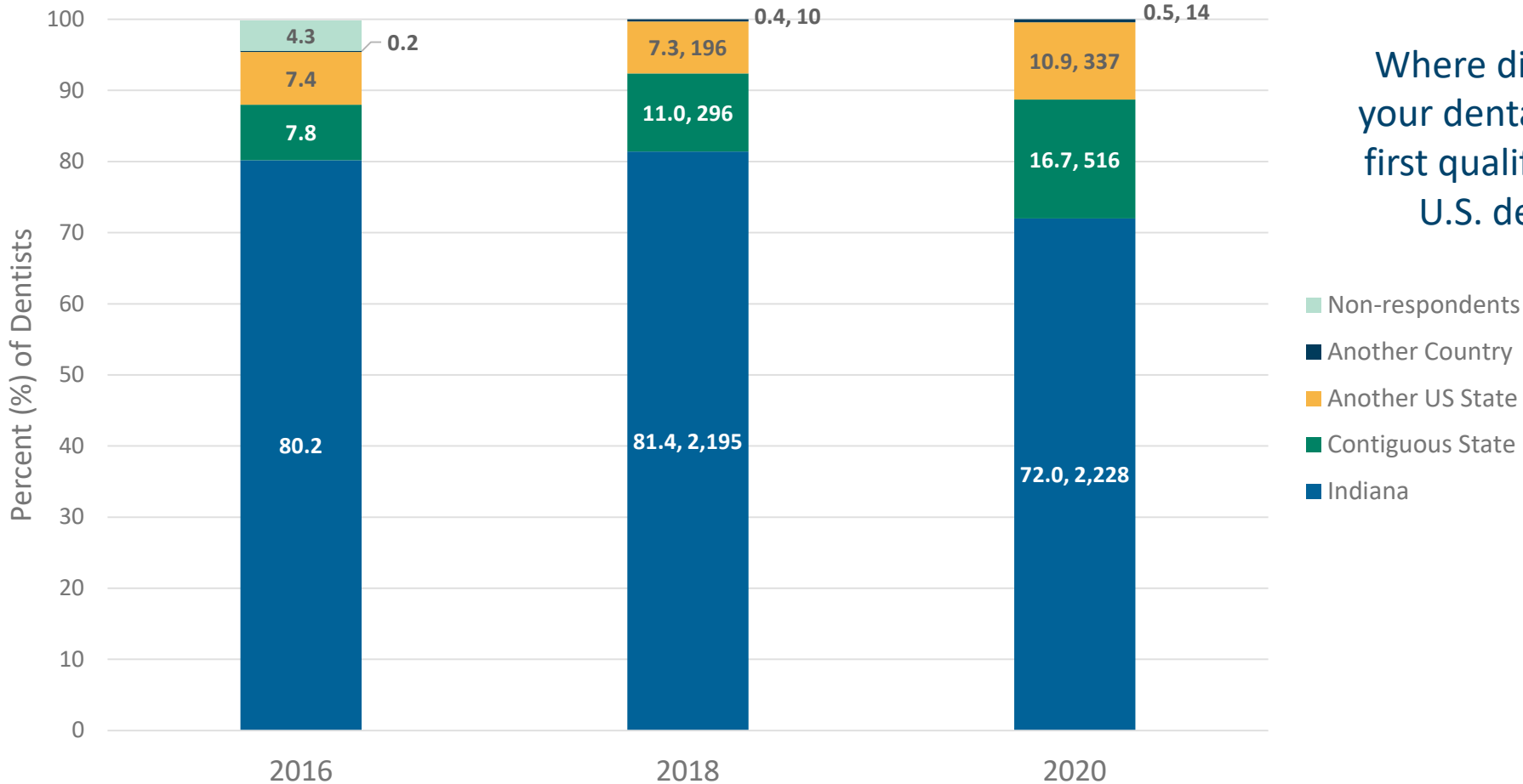
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# DENTIST EDUCATION TRENDS

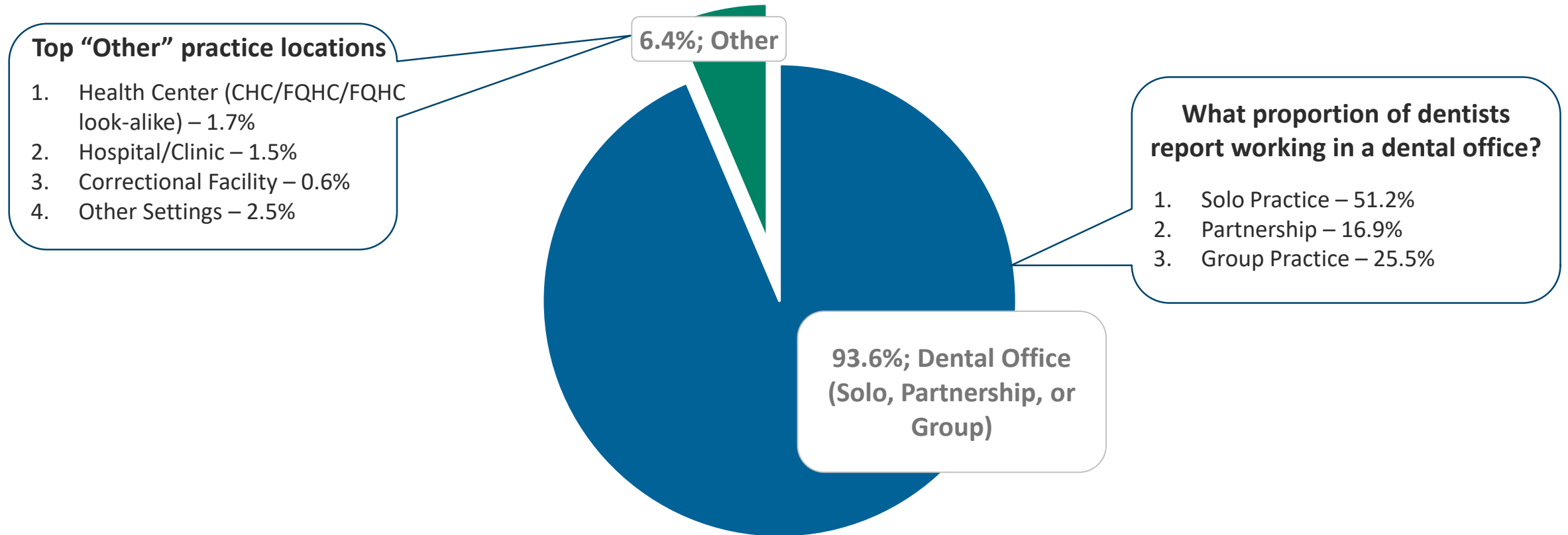


Where did you complete your dental education that first qualified you for your U.S. dental license?

- Non-respondents
- Another Country
- Another US State
- Contiguous State
- Indiana

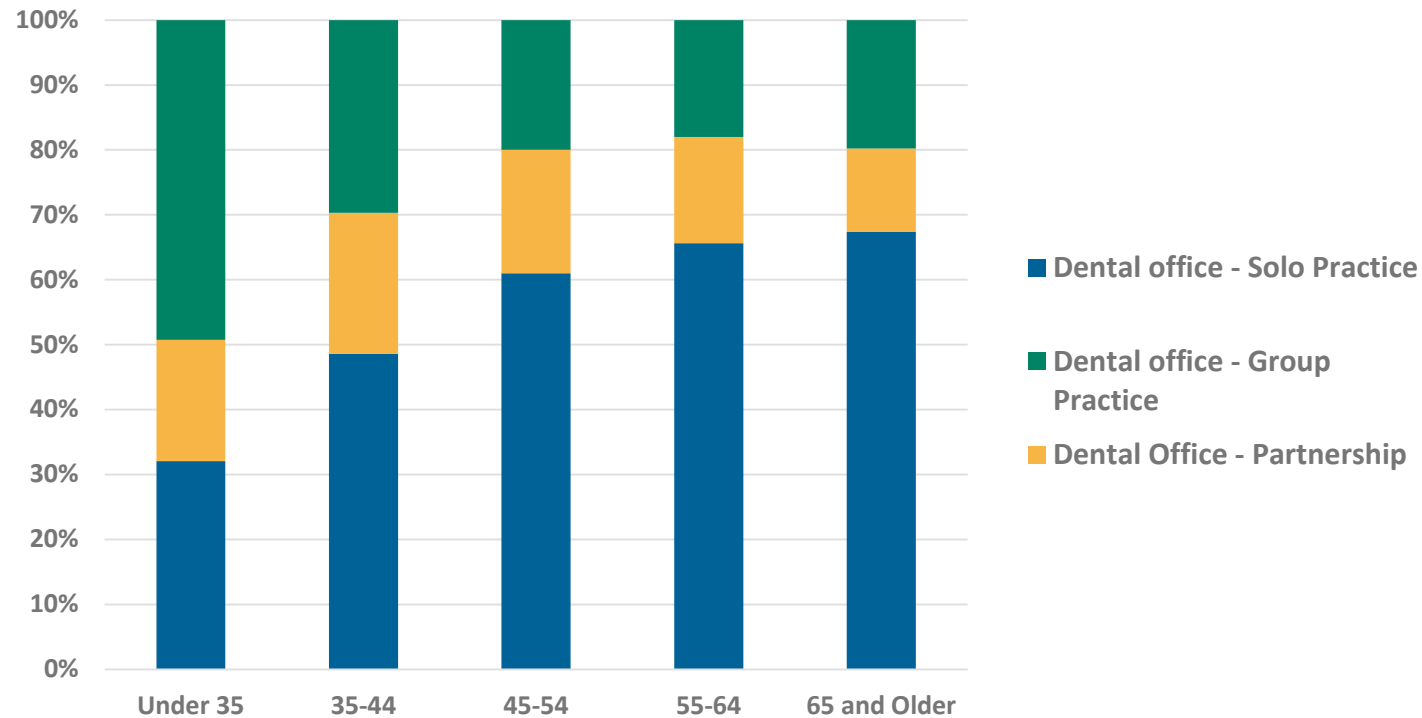


# DENTIST PRACTICE CHARACTERISTICS

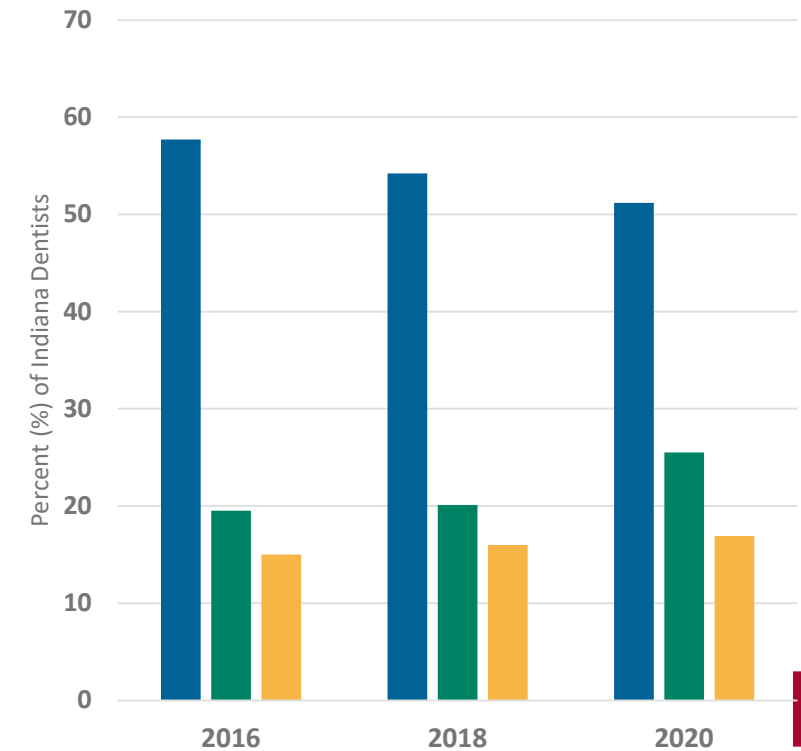


# CHARACTERISTICS OF DENTISTS WORKING IN DENTAL OFFICES

## Office-based Dentists' Age Distribution



## Distribution of Dental Office Practices Over Time



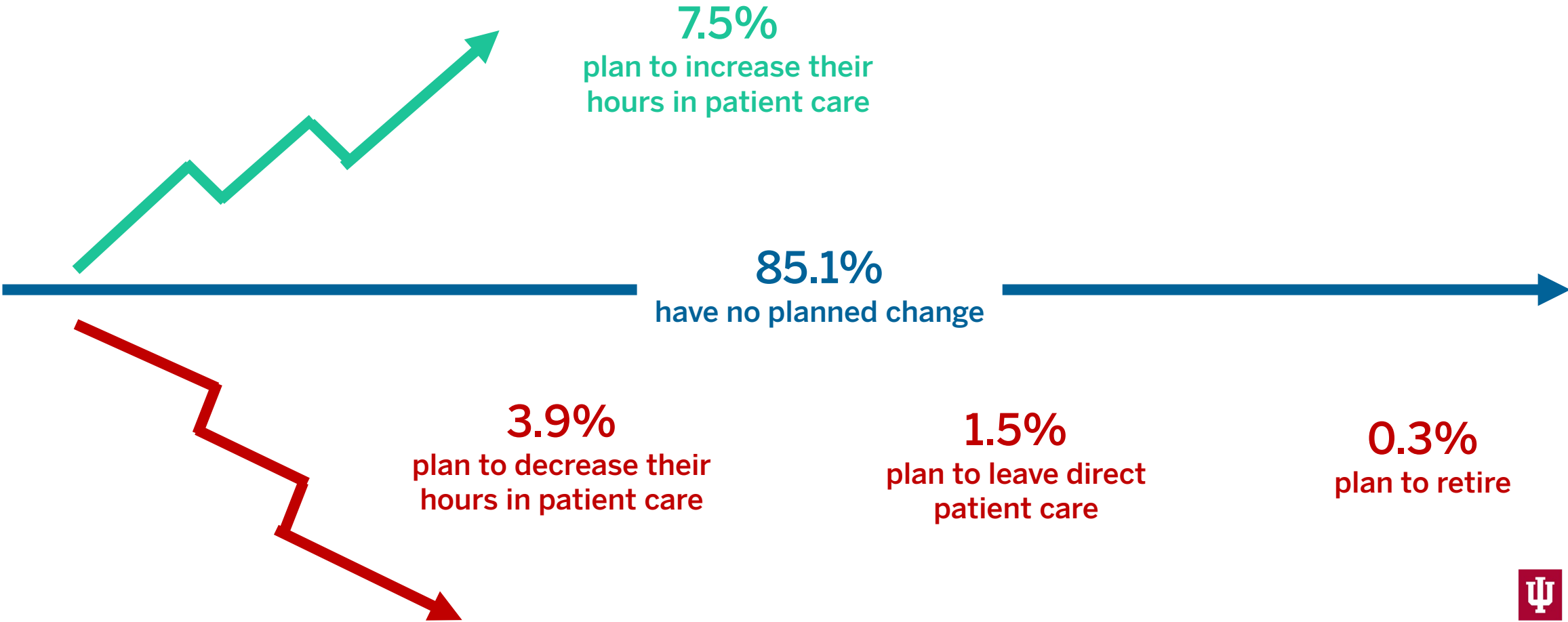
# INITIATIVES IN COMMUNITY-BASED DENTISTRY

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- **Indiana University School of Dentistry received award** (<https://www.hrsa.gov/grants/find-funding/HRSA-18-014>)
- **Bowen Center is providing support to the formal evaluation.**
- **State-level trends can be used to monitor trends in safety net participation longitudinally:**
  - Safety net setting type (health center, school health service, other public health setting, local health department, mobile unit, or home health setting)
  - Other safety net contributions (Medicaid, sliding fee scale, charitable care)



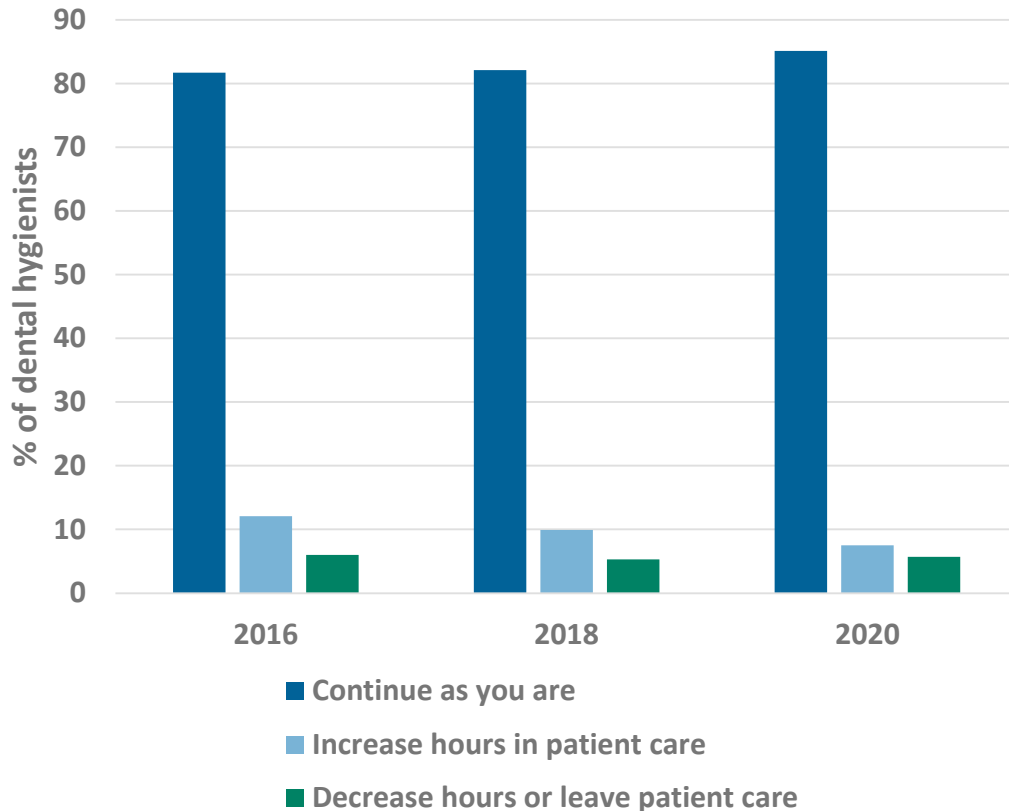
# INDIANA DENTAL HYGIENISTS EMPLOYMENT PLANS IN NEXT 12 MONTHS



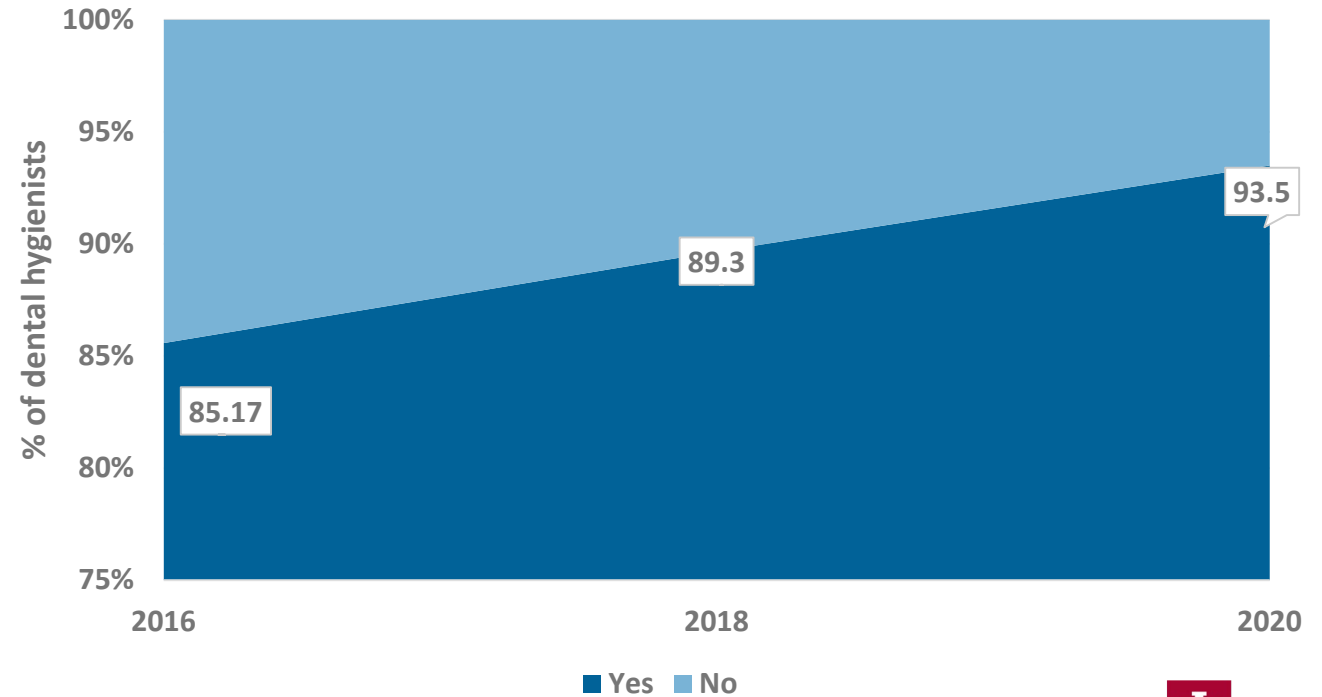
Source: Table 2.3 of 2019 Indiana Registered Nurse Workforce Data Report

# INDIANA DENTAL HYGIENISTS EMPLOYMENT PLANS/SATISFACTION OVER TIME

What are your employment plans for the next 12 months?



Are you currently working as many hours as you would like in dental hygiene?





# COVID-19 & ORAL HEALTH WORKFORCE

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We aim for our briefs to contain timely and relevant information that is valuable for policy and programming discussions.

Given COVID-19's impact on dentistry and in anticipation of future planning, do you have any recommendations on what should or could be included related to Indiana's oral health workforce?



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# ADVISORY GROUP DISCUSSION

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*From your perspective, are there any additional oral health workforce topics that might be informed by workforce data in the coming year?*



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# DATA VISUALIZATION EFFORTS

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# BOWEN PORTAL

[www.BowenPortal.org](http://www.BowenPortal.org)

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INFORMATION PORTAL

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COVID-19

## Healthcare Reserve Workforce For COVID-19

Indiana is committed to supporting our health workforce in any way possible.

The Indiana State Department of Health has tasked the Bowen Center with collecting information from potential health care professionals and students volunteers and then sharing that information with hospitals in need of more workforce support.

[Become/Find a Volunteer](#)

### Discover, Use, and Share Health Workforce Data and Maps

**INTERACTIVE MAPPING TOOL**

The interactive mapping application allows users to build and share customized maps that visualize important workforce supply information by specific geographic regions.

[CREATE MAP](#)

**DATA DOWNLOAD TOOL**

The data download tool allows users to easily download supply data on Indiana's health workforce as well as supporting documentation which can be used to support grant development, needs assessments, or other workforce related projects.

[DOWNLOAD DATA](#)

**MAP GALLERIES**

Download professionally created maps directly from the HWP Map Gallery. These maps contain a plethora of information and represent workforce supply data as well as ad hoc maps created for the State of Indiana.

[MAP GALLERIES](#)

## Current Visualizations

Choose a Theme > **SUPPLY DISTRIBUTION AND CHARACTERISTICS** EDUCATION PIPELINE

### Primary Care Physicians, Population per FTE Ratio

33,776-140,570 (1)  
13,380-33,776 (2)  
5,114-13,380 (23)  
764-5,114 (65)  
No Reported Data

Federal benchmark for sufficient capacity is 3,500 population per 1.0 FTE primary care physician

Note: The number in parentheses represents the number of counties/areas that fall in that color category.

### Map Features

- Hospitals
- Critical Access Hospitals
- Community Health Centers - State Funded
- Federally Qualified Health Centers
- Long-Term Care Facilities
- Rural Health Centers
- Rural Classification
- Dental Health - HPSA
- Mental Health - HPSA
- Primary Care - HPSA

### Primary Care Physicians in Indiana

Population per FTE Ratio

Trends Workforce General Population

**Population per FTE Ratio**

Year	2015	2017	2019	2021	2023	2025
Value	2130	1950	N/A	N/A	N/A	N/A

**Total Physician Licenses (by license address)**

Year	2015	2017	2019	2021	2023	2025
Value	14610	15540	N/A	N/A	N/A	N/A

**Total Physician Respondents (by license address)**

Year	2015	2017	2019	2021	2023	2025
Value	9739	10255	N/A	N/A	N/A	N/A

**Percent Male**

Year	2015	2017
Value	65.2	67.8



# FUTURE OPPORTUNITIES: TABLEAU

## Indiana COVID Dashboard at Regenstrief Institute

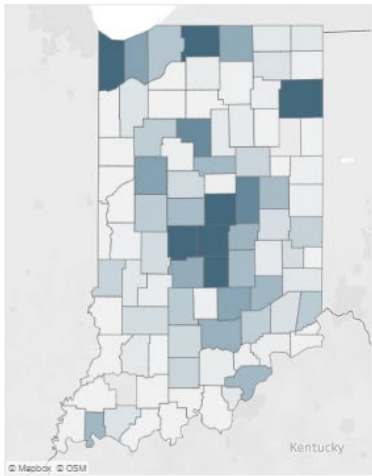


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### Hospitalizations by County

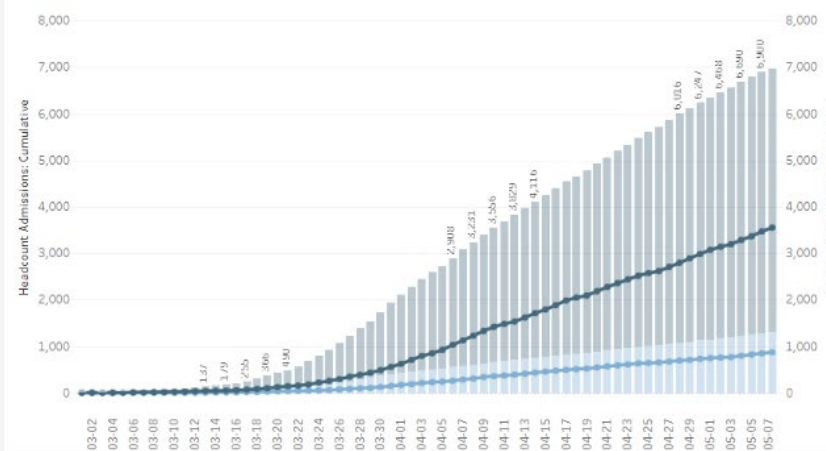
County  
 ISDH Region  
Hover over a county or ISDH region to view additional details for that area.



### Hospitalizations by Race

### Total Hospitalizations and Discharges : Cumulative Over Time

Cumulative Over Time  
 Daily Totals  
 Hospitalizations: Non-ICU (bars) / ICU (bars)  
 Discharges: Non-ICU (Lines) / ICU (Lines)



### Hospitalizations by Age and Sex

## North Carolina Health Workforce

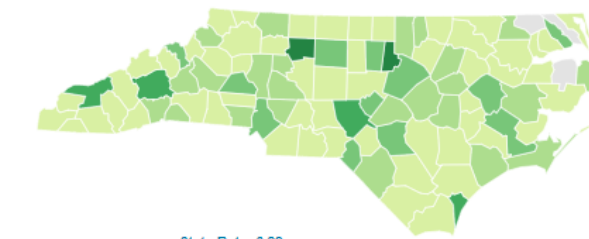


[Blog](#) [About](#) [Supply Data](#) [Other Publications/Data](#)

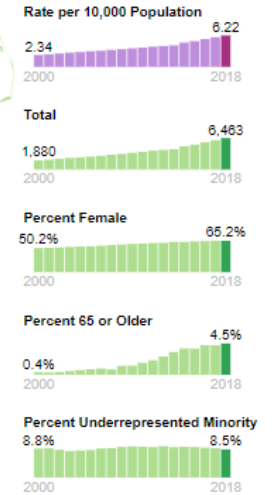
### North Carolina Health Professional Supply Data

Choose a profession:  and a specialty:

#### Physician Assistants per 10,000 Population by County, North Carolina, 2018



#### Profession Demographics for North Carolina



Select a Year: 2018 See data by:  [DOWNLOAD A8 IMAGE](#) [DOWNLOAD DATA](#) [TUTORIAL](#)

<https://www.regenstrief.org/covid-dashboard/>

<https://nhealthworkforce.unc.edu/supply/>



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# ADVISORY GROUP DISCUSSION

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*From your perspective, what type of data visualizations would be most helpful on a public platform?*



# CLOSING AND THANK YOU

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Please feel free to reach out to the Bowen Center at any time for additional questions, specific data requests, or customized analyses (data or policy research).

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