The University of Iowa Public Policy Center

25 Years

Pharmacy & Dental Workforce in Iowa

Susan McKernan, DMD, MS, PhD

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susan-mckernan@uiowa.edu

Data Sources

Iowa Health Professions Inventory

- University of Iowa Carver College of Medicine
- Iowa Dentist Tracking System
- Plus physician & pharmacist data

Medicaid administrative data

- Claims & provider data

Delta Dental of Iowa administrative data

- Claims & provider data

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Workforce Issues of Interest

Dentists:

- Aging workforce; replacing retirements
- Increasing proportion of female dentists
- Increasing proportion of dentists working part-time
- Geographic distribution

Pharmacists:

- Fewer independent pharmacies
- Rise in chain-based practice

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Acknowledgements

- Colleagues at the PPC
  - Pete Damiano
  - Ray Kuthy
  - Julie Reynolds
  - Betsy Momany
- Support from the Iowa Health Professions Inventory
  - Teresa Dunkin
  - Francisco Olalde

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WORKFORCE TRENDS

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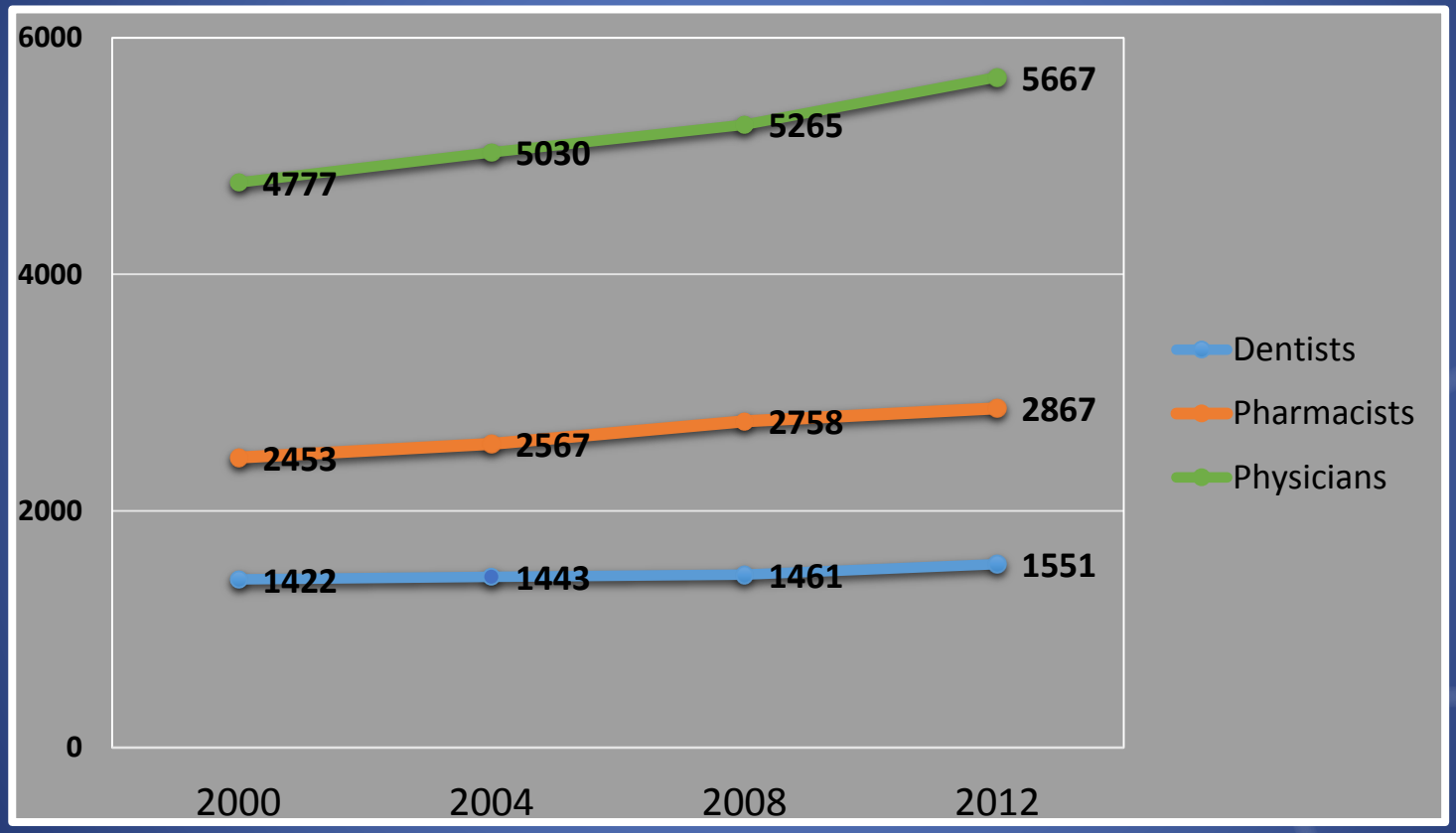
Workforce Sizes, 2000-2012



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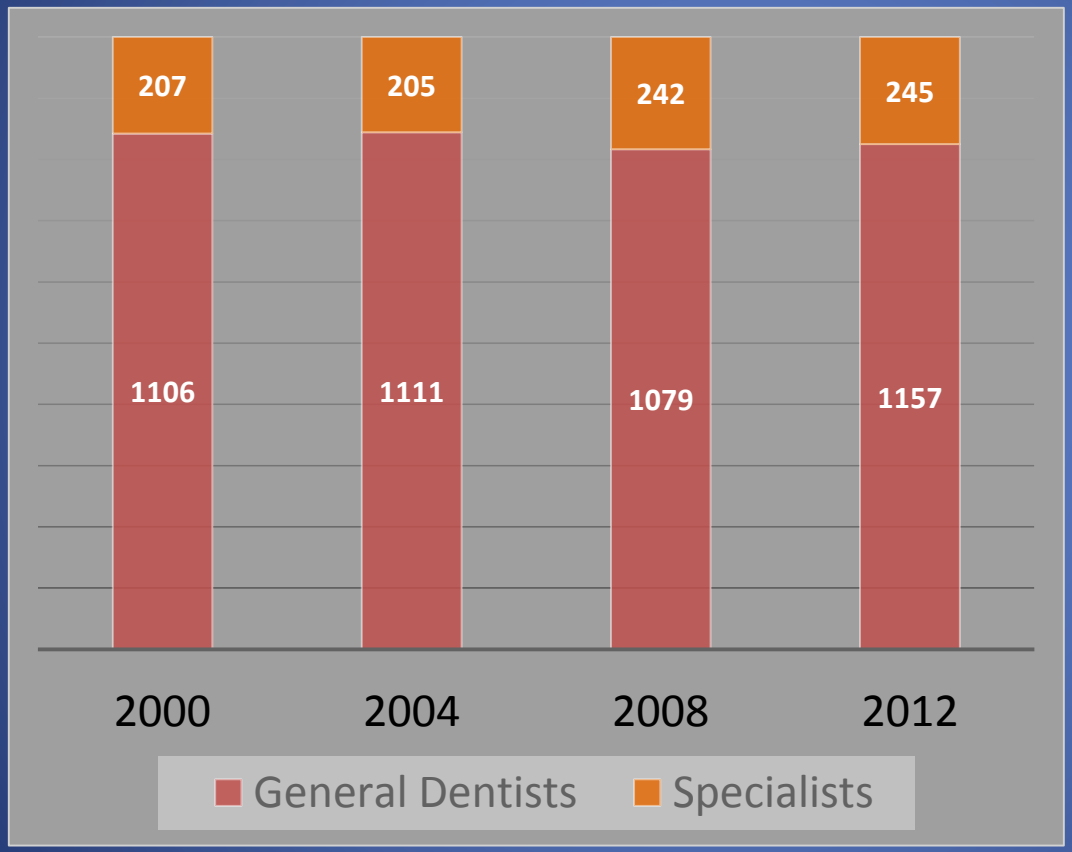
Private Practice Dentists, 2000-2012



- Approximately 90% of active dentists are engaged in private practice.
- Approximately 75% of active dentists are general practitioners in private practice.

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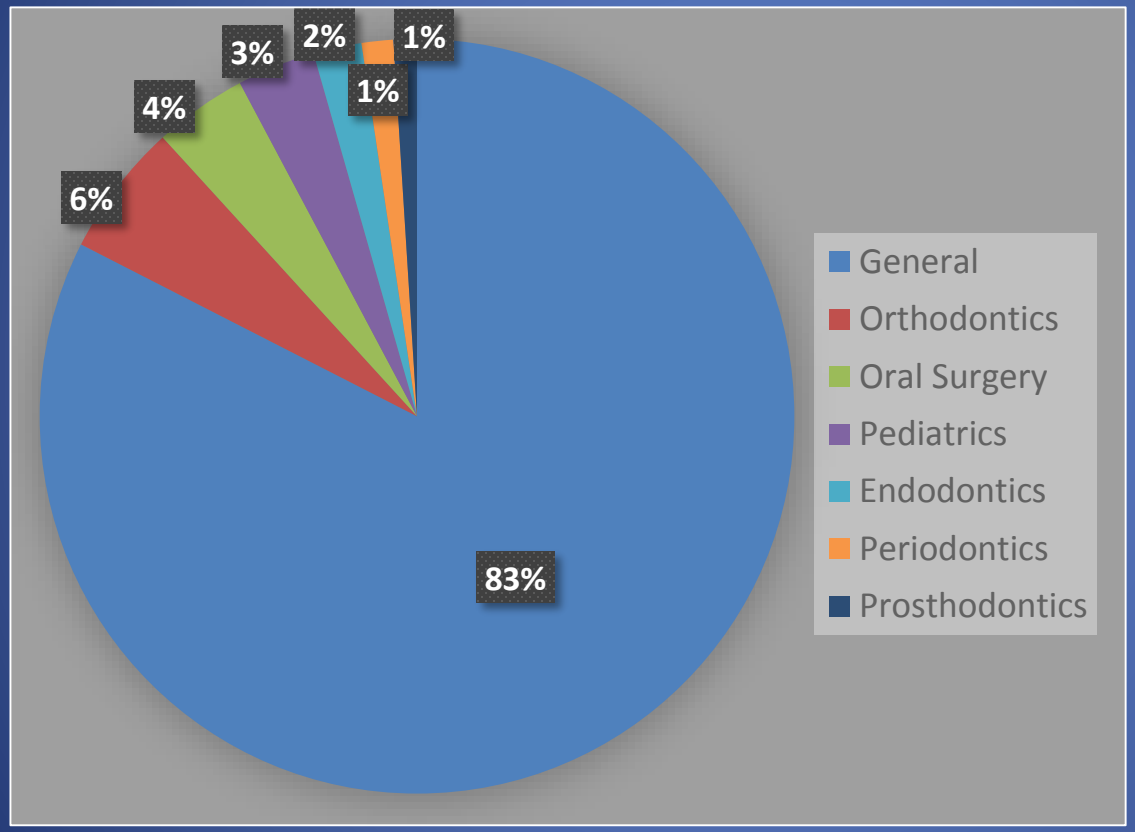
Private Practice Dentists, 2000-2012



- 83% of private practitioners are general dentists
- Most common specialties:
  - Ortho
  - Oral Surgery
  - Pediatrics

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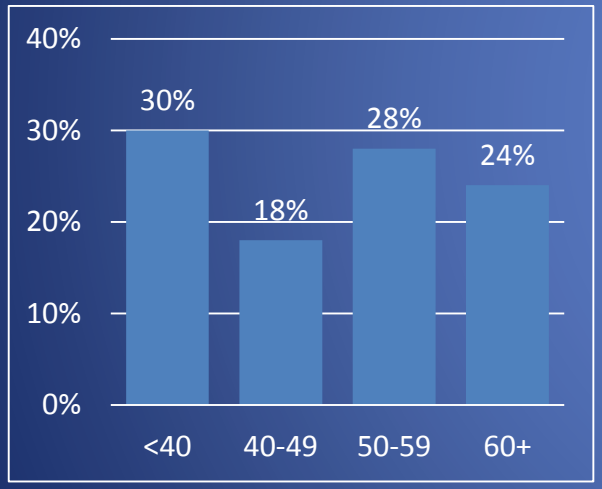
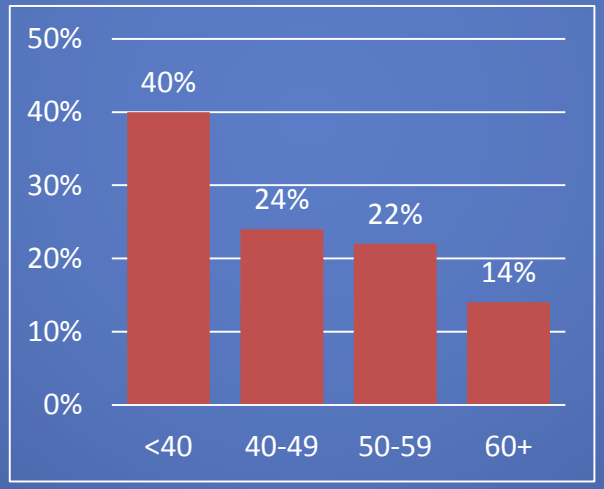
Age Distributions, 2012

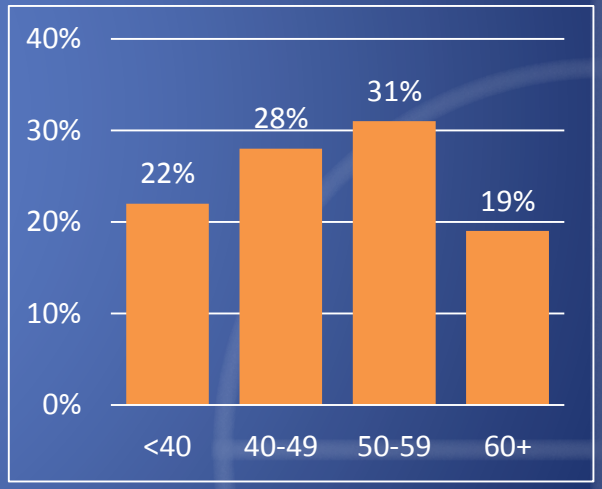
Dentists



Pharmacists



Physicians



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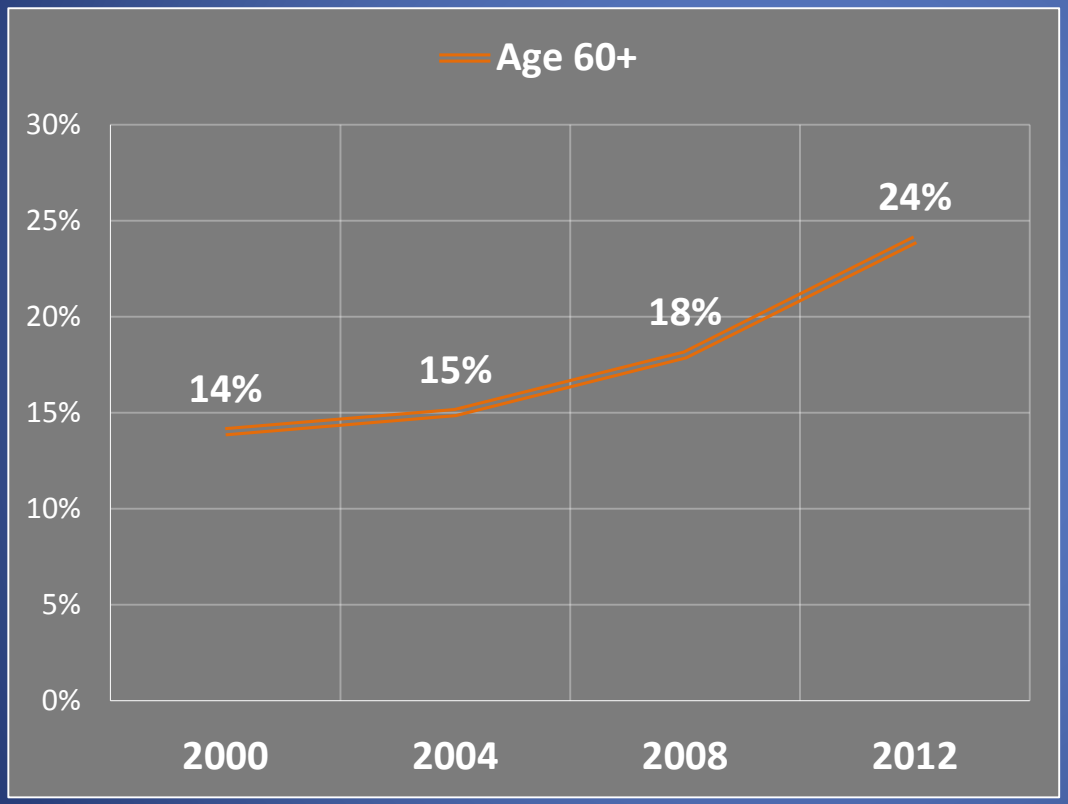
Trends in Age Distribution

Private practice dentists, age 60+, 2000-2012



- 26% in 2013
- Average age of retirement is 67

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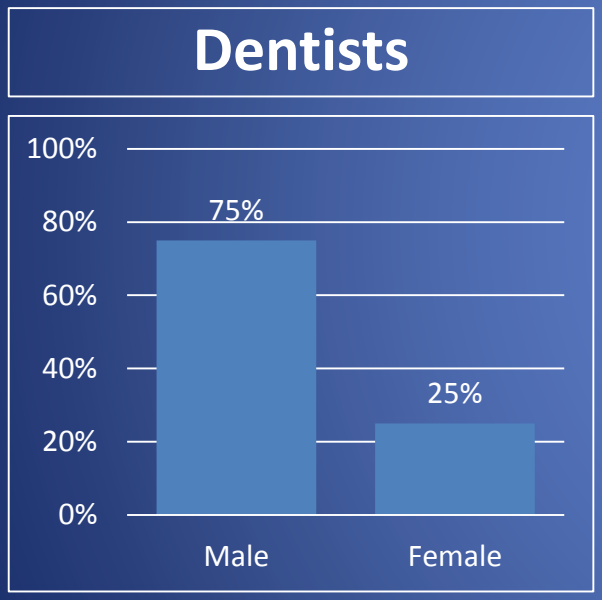
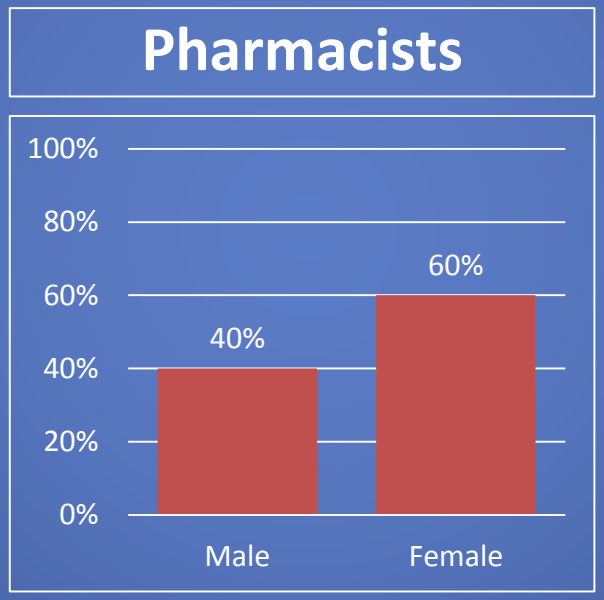
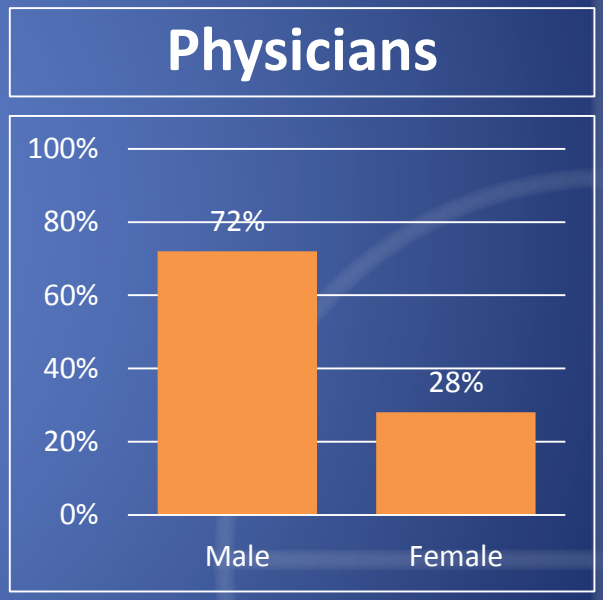
Gender Distribution, 2012







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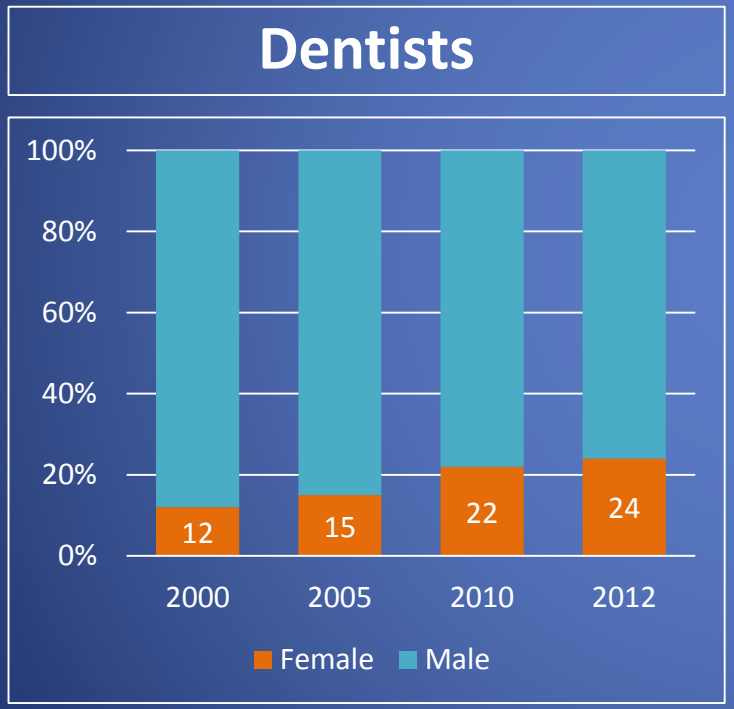
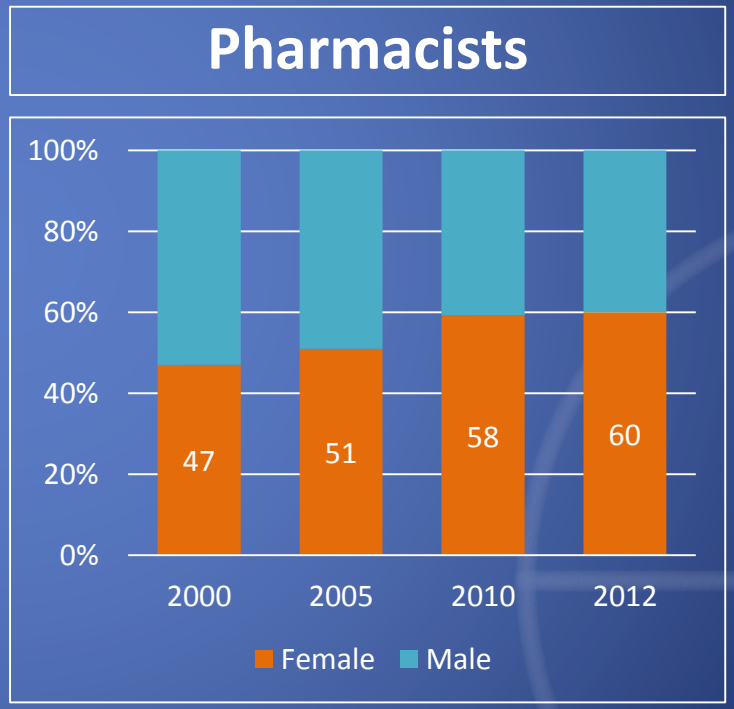
Trends in Gender, 2000-2012





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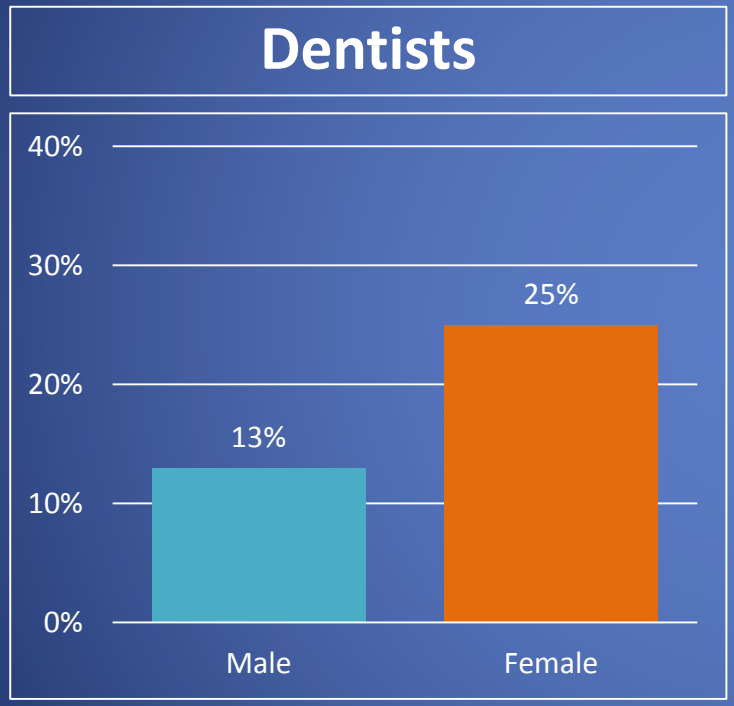
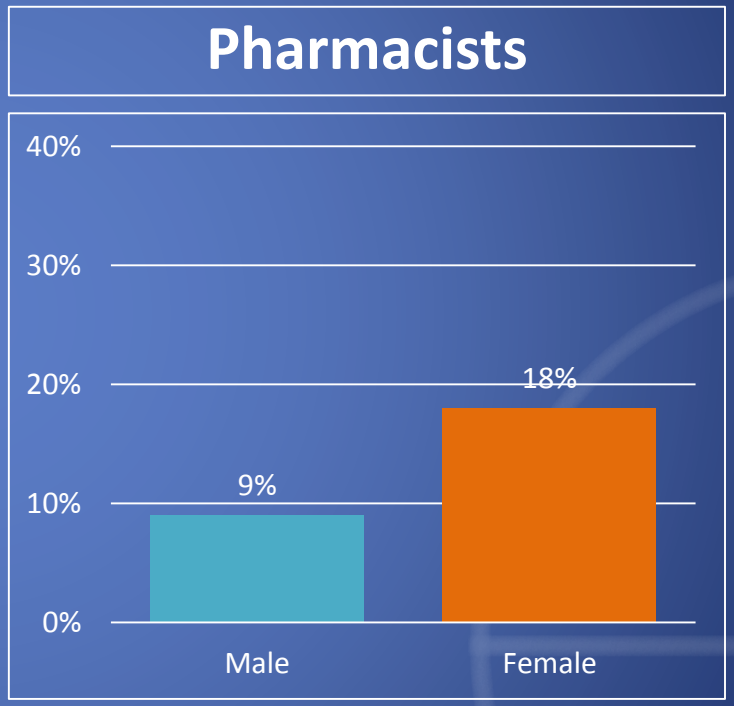
Part-Time Workforce by Sex, 2012



16% of dentists overall



17% of pharmacists overall

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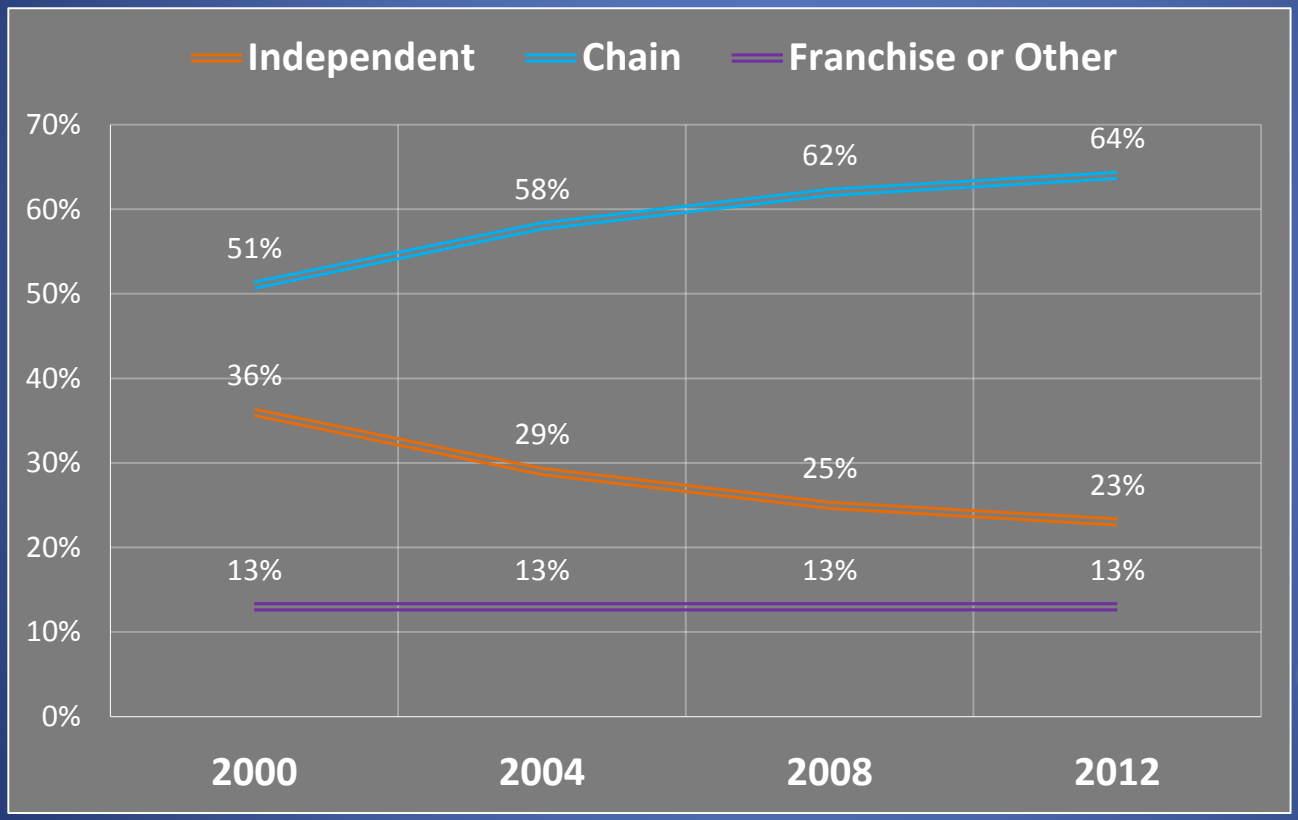
Part-time defined as <30 hours/week for pharmacists, <32 hours/week for dentists

Trends in Workforce Activity

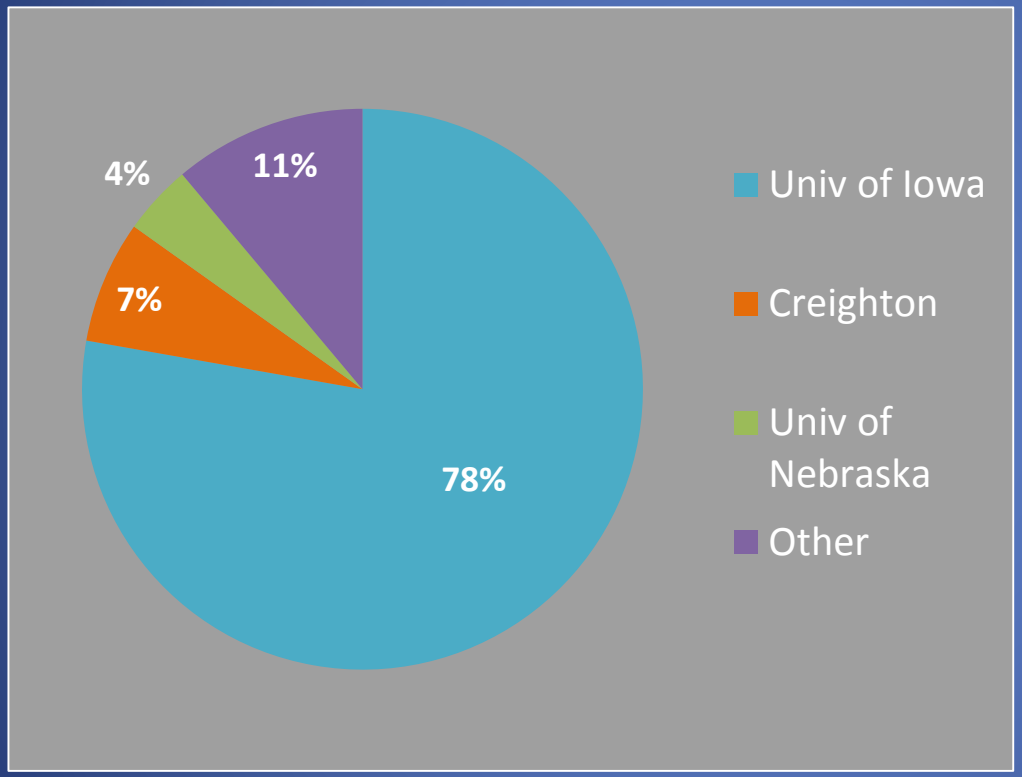
Community pharmacists, 2000-2012



The number of communities with independent pharmacists has decreased by 30% since 1996.

Educational Source

Private Practice Dentists, 2012



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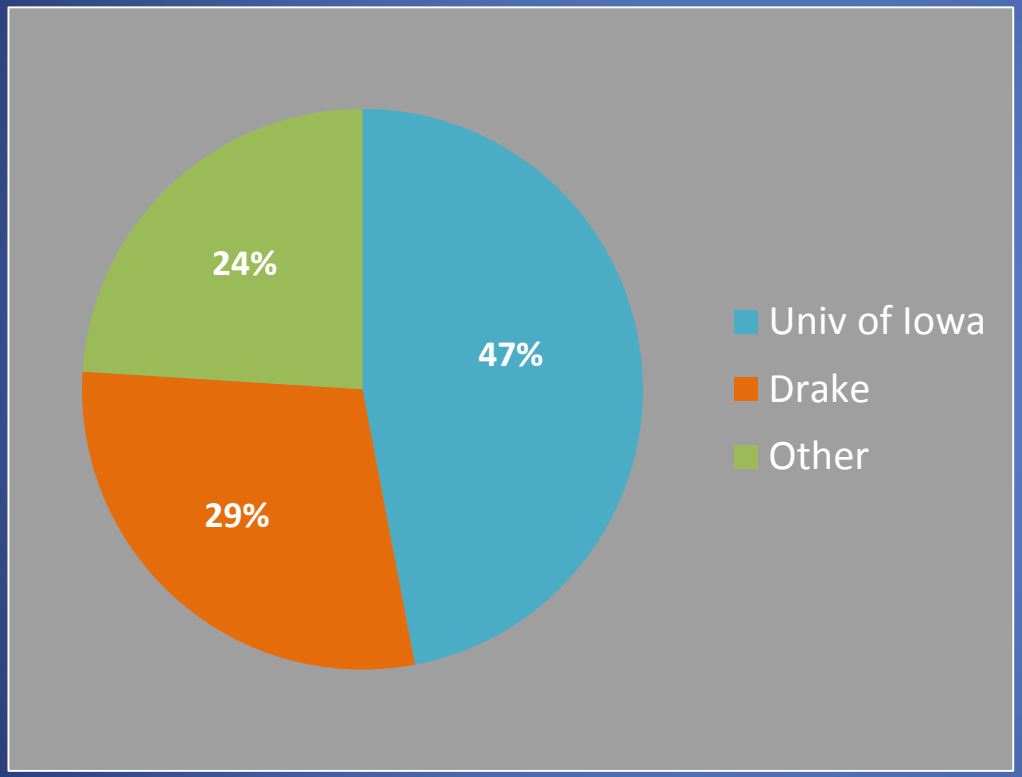
Educational Source

All Pharmacists, 2012



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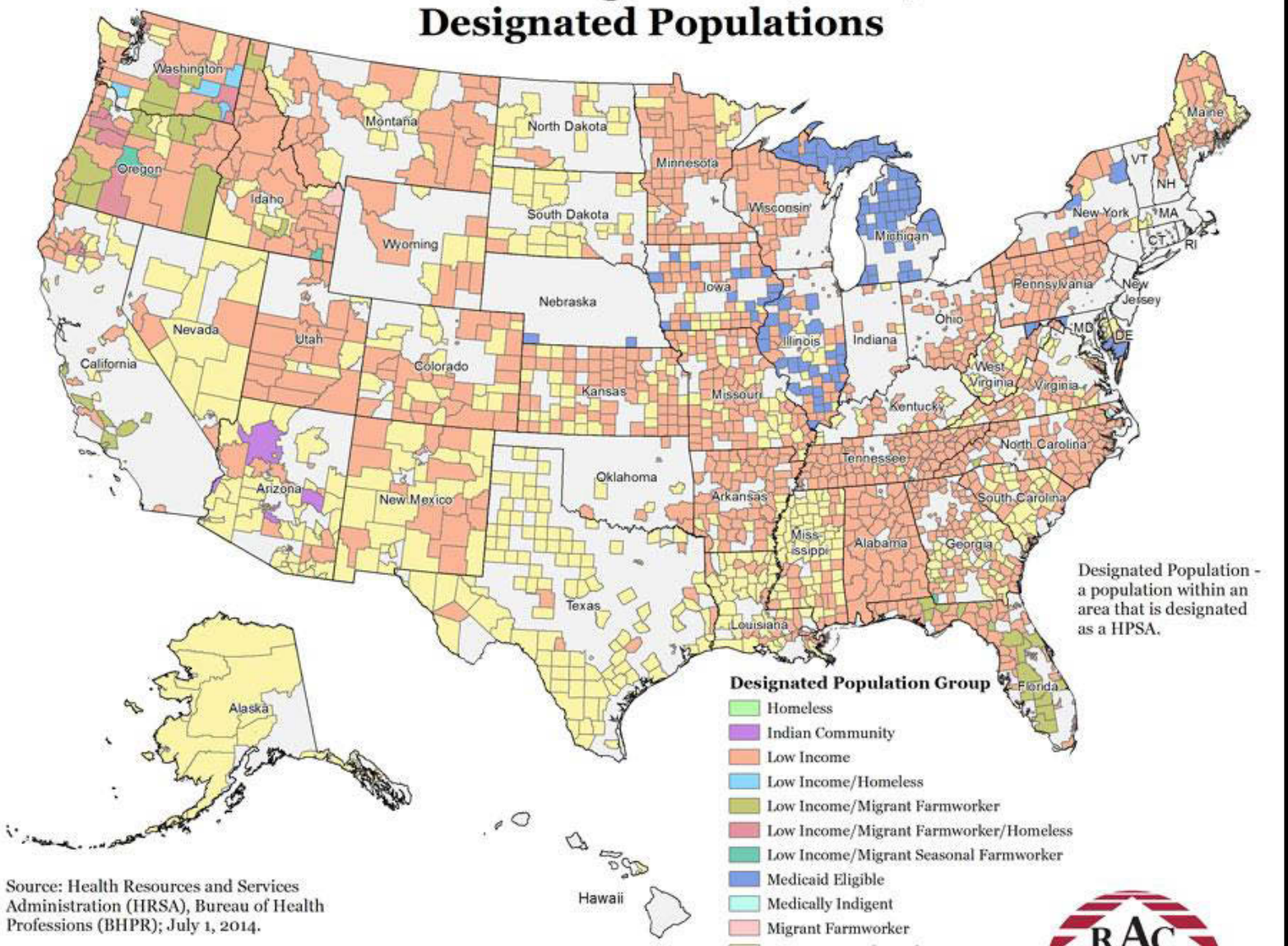
Dental Shortage Areas (HPSAs)

County or other geographic area: 5000:1 FTE

Or 4000:1 if high dental need

Health Professional Shortage Areas (HPSA) - Dental Health Designated Populations

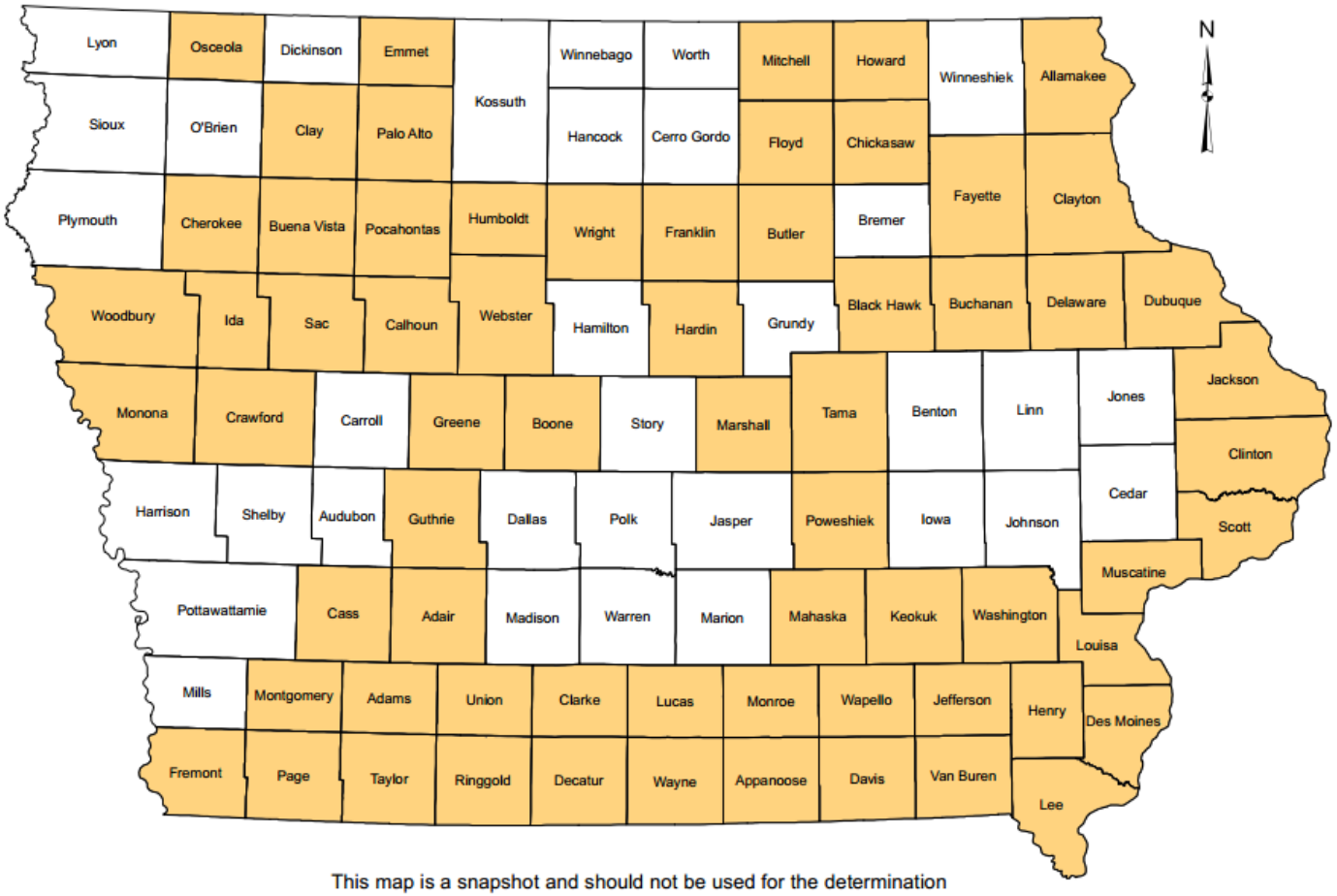


Source: Health Resources and Services Administration (HRSA), Bureau of Health Professions (BHPR); July 1, 2014.

Note: Alaska and Hawaii not shown to scale

RAC Rural Assistance Center

Iowa: Federal Dental Health Care Shortage Designations

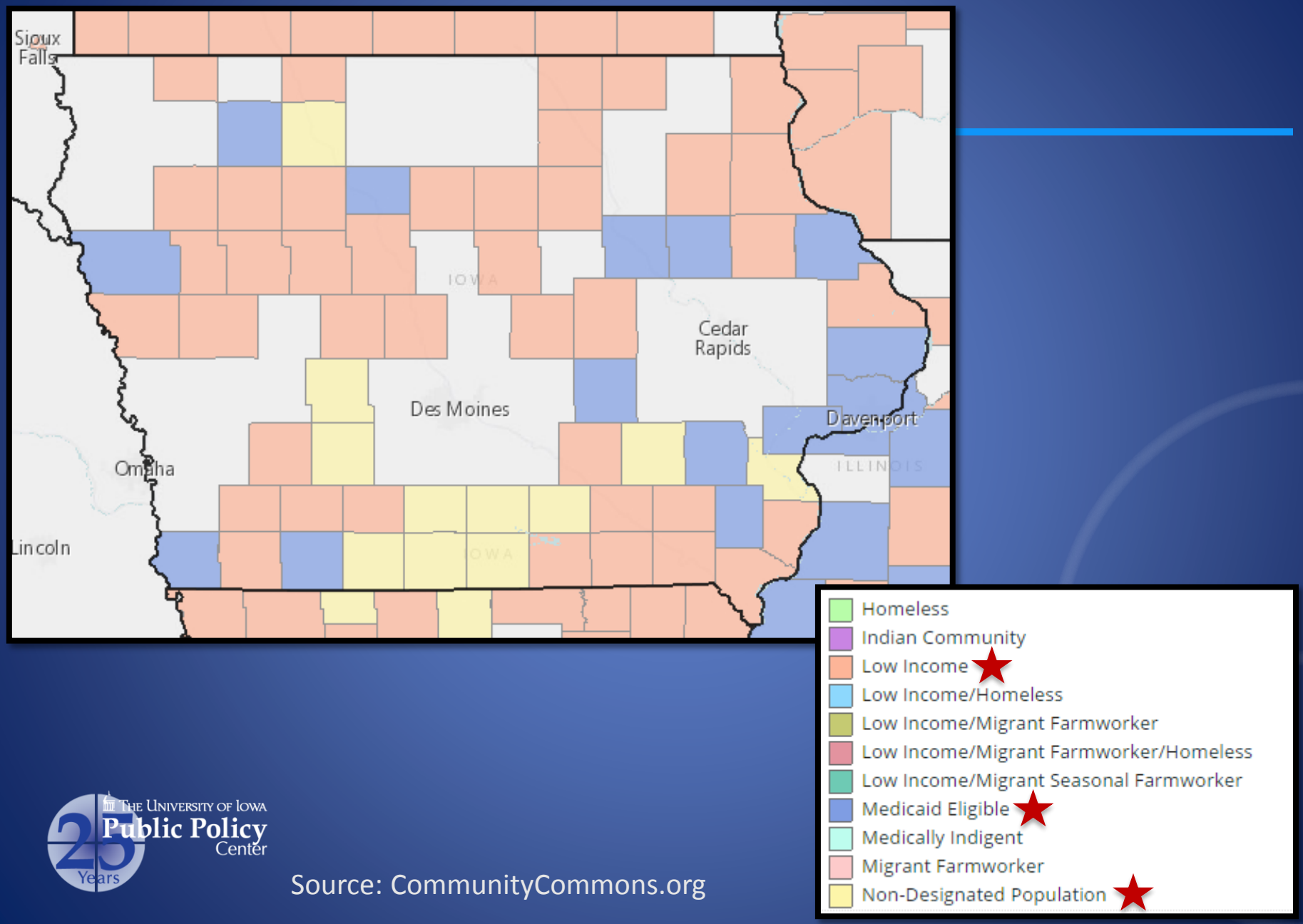


This map is a snapshot and should not be used for the determination or approval of programs requiring a shortage designation.
The official site for determination of shortages is: http://hpsafind.hrsa.gov.

HPSA Designation

Dental Health HPSA

Created by: Iowa Department of Public Health Bureau of Oral and Health Delivery Systems
Source: Health Resources and Services Administration Data Warehouse
Created on: April 18, 2014



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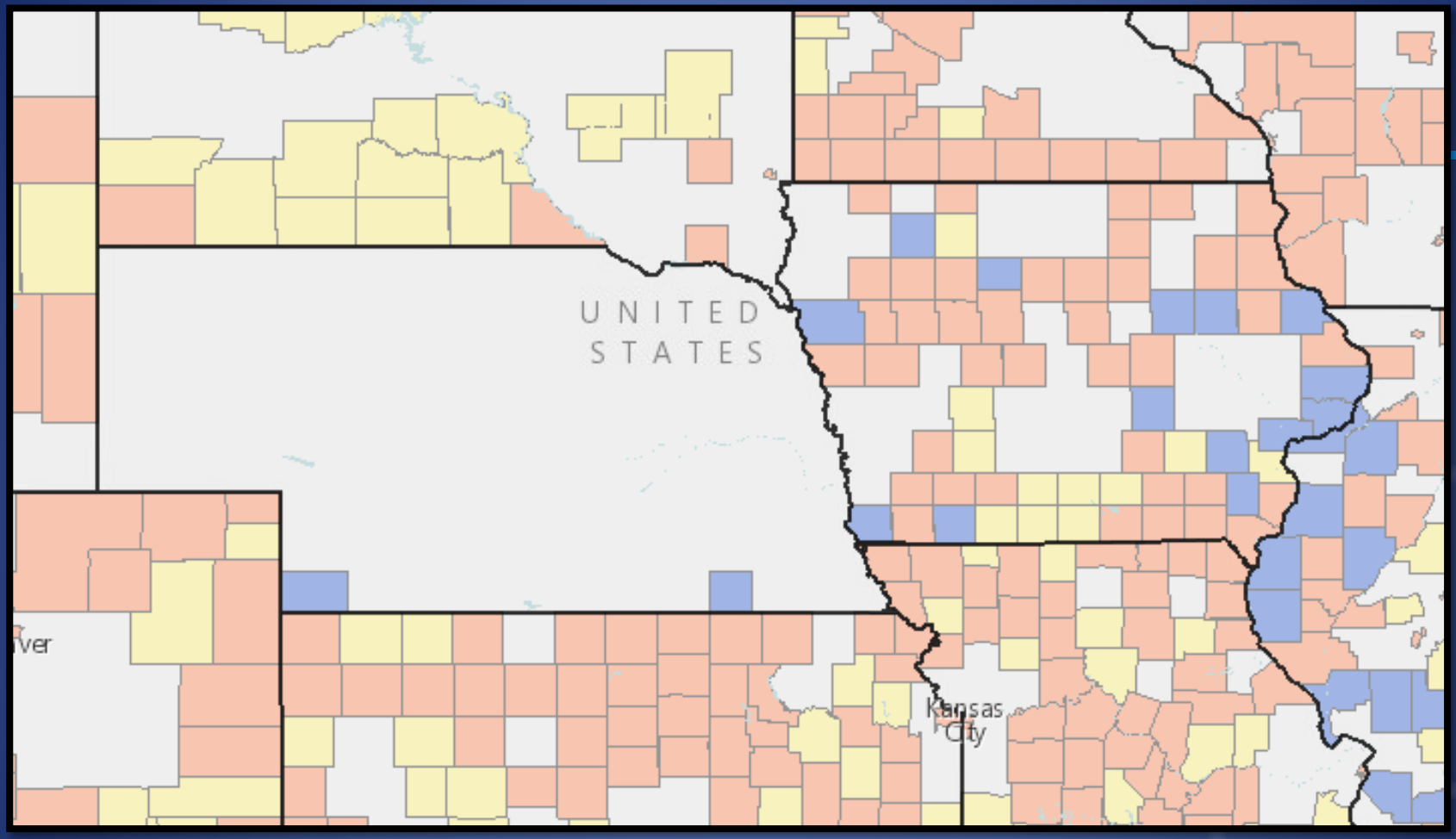
Source: CommunityCommons.org



Primary Care Office within the Bureau of Oral and Health Delivery Systems requests and maintains HPSA designations for Iowa.

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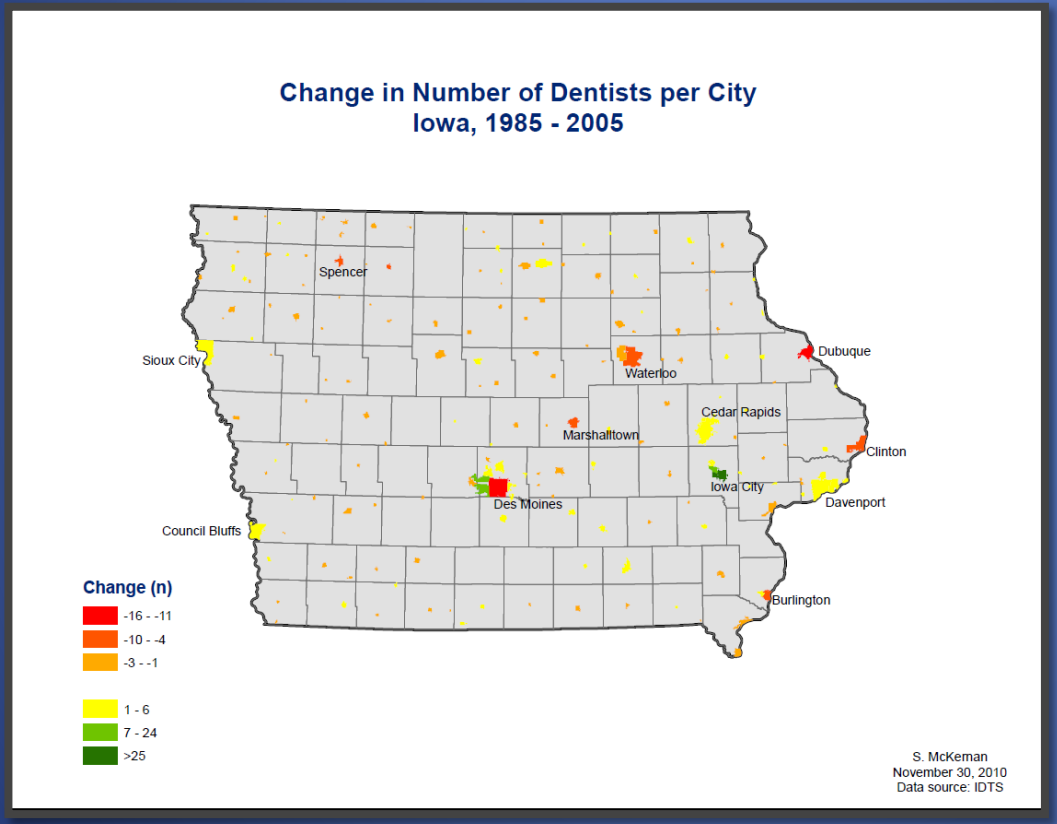
Active Dentists, 2009

	Number	% Female	% General Practice	% 65+ years
Iowa	1,625	21%	77%	11%
Nebraska	1,112	19%	78%	12%
Illinois	8,345	25%	82%	11%
Minnesota	3,201	22%	81%	9%
Missouri	2,865	17%	80%	13%
Kansas	1,446	18%	81%	14%
South Dakota	418	15%	82%	11%

Source: ADA (2009). Distribution of Dentists in the U.S. by Region and State.

Dentist Workforce Availability



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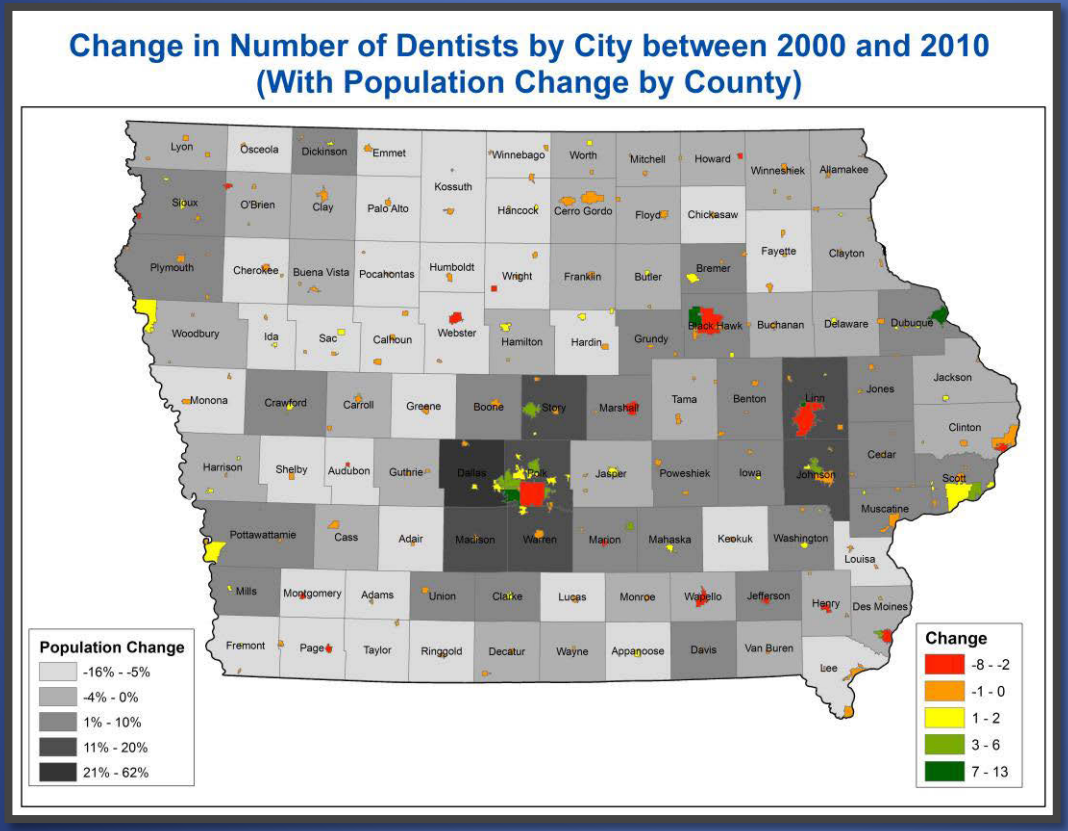
Dentist Workforce Availability



Data sources:

- Iowa Dentist Tracking System
- US Census

Kuthy RA, et al. Dentist workforce trends in a primarily rural state: Iowa 1997-2007. doi:10.14219/jada.archive.2009.0105

How do primary care providers colocate in Iowa?

In 2010:

Community Pharmacists

- 1,689 in 228 cities

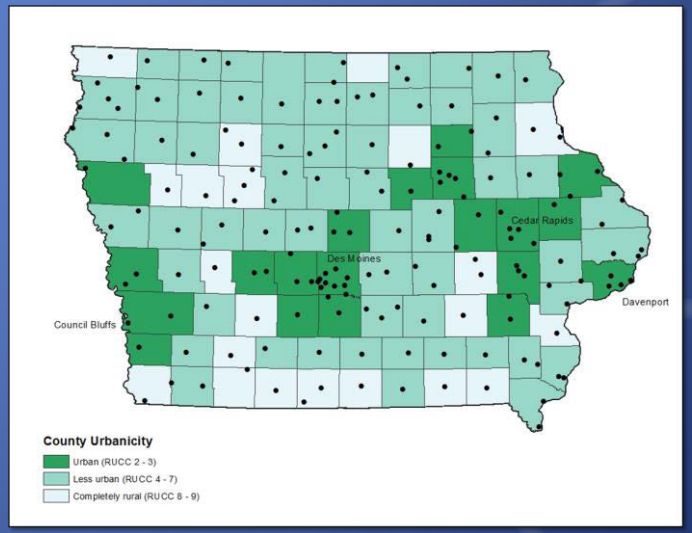
Primary Care Physicians

- 1,754 in 207 cities

Primary Care Dentists

- General and pediatric dentists
- N=1,125 in 216 cities

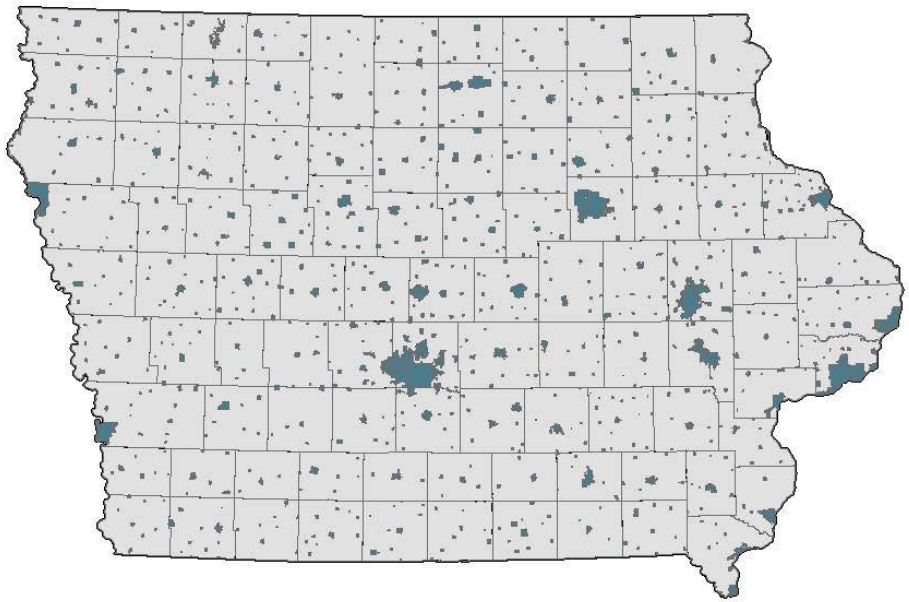
***Excluded providers in academic, CHC, or hospital settings*



McKernan SC et al. (2012) Primary care providers and practice locations: Examining the relationships. J Am Dent Assoc.

Cities in Iowa

954 incorporated areas in the state



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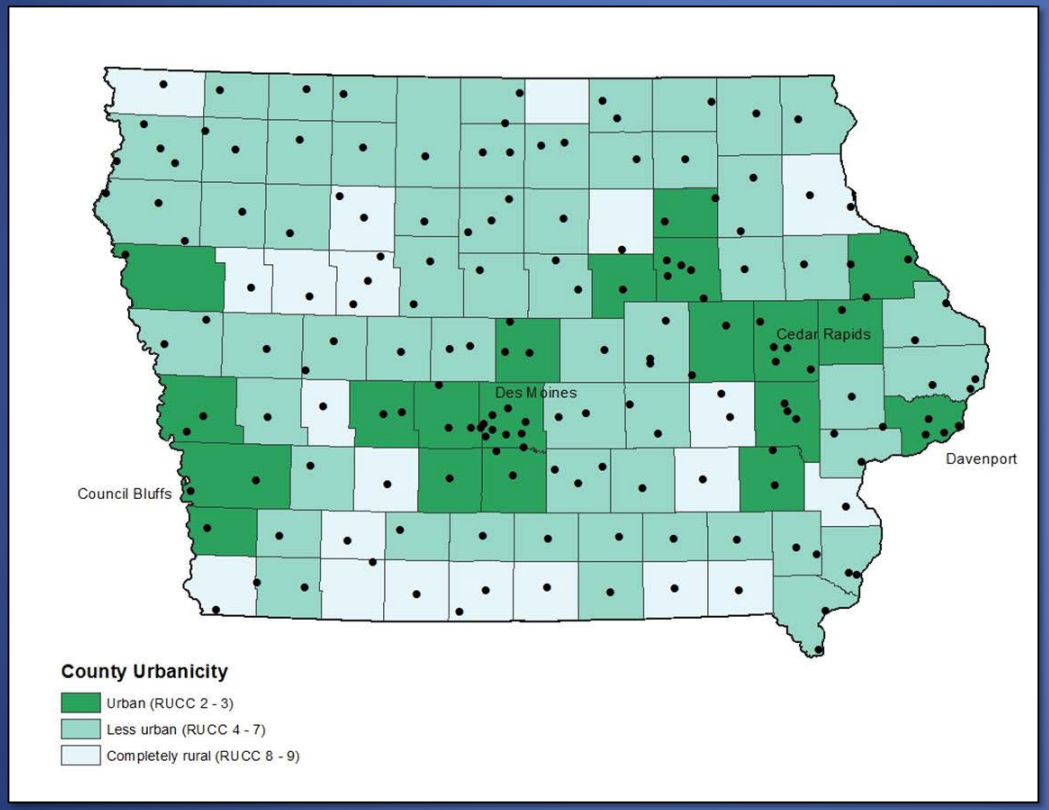
How do primary care providers colocate in Iowa?



Cities with at least 1 dentist, physician, and pharmacist (2000)

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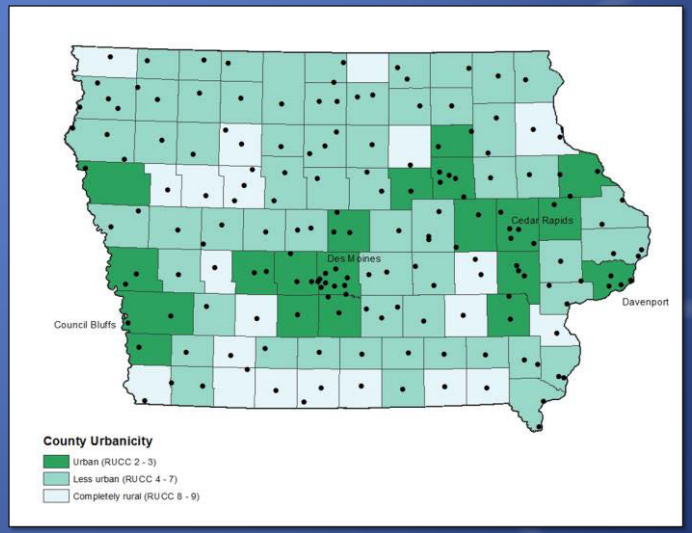
How do primary care providers colocate in Iowa?

In 2010:

- In cities with any healthcare providers, most common situation was to find all 3 types
- Most common solitary provider: Pharmacist
- Most common provider pairing: Pharmacist + Physician



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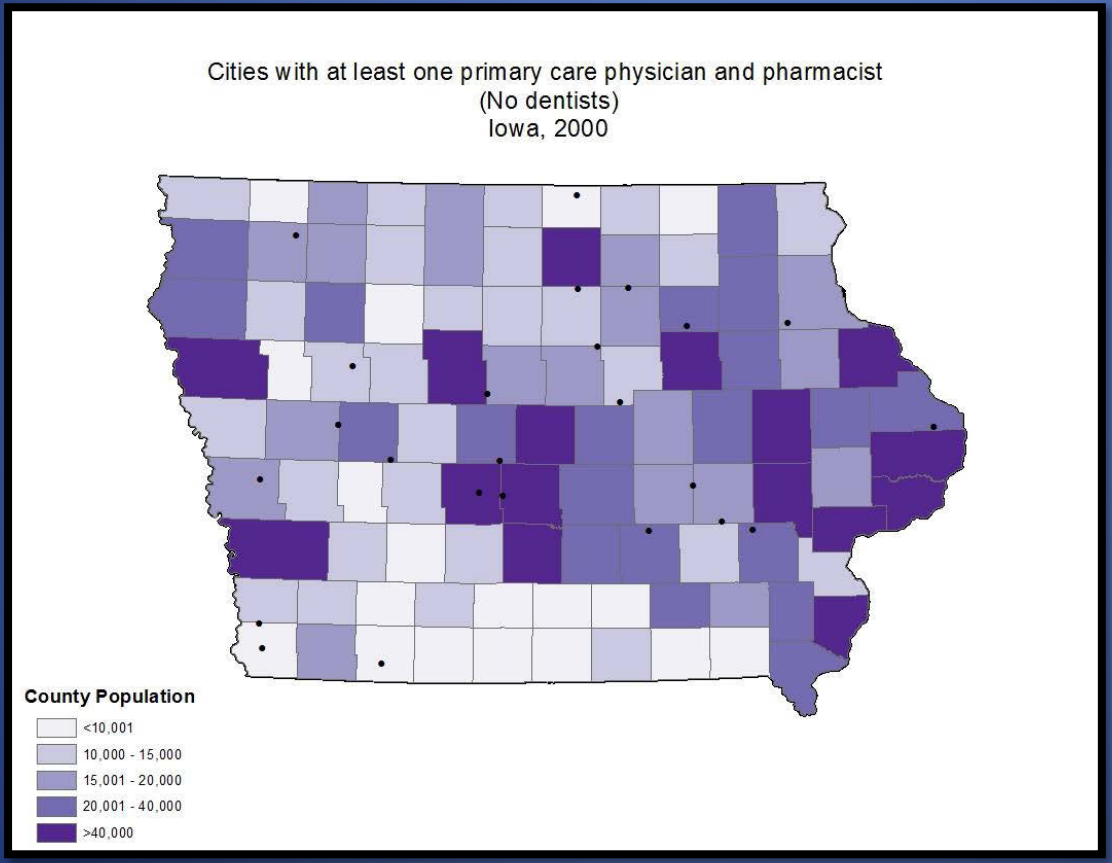
Communities lacking a dentist

*With a practicing physician and pharmacist



25 cities in 2000

22 in 2010

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THE DENTAL SAFETY NET IN IOWA: PUBLIC SOURCES OF CARE

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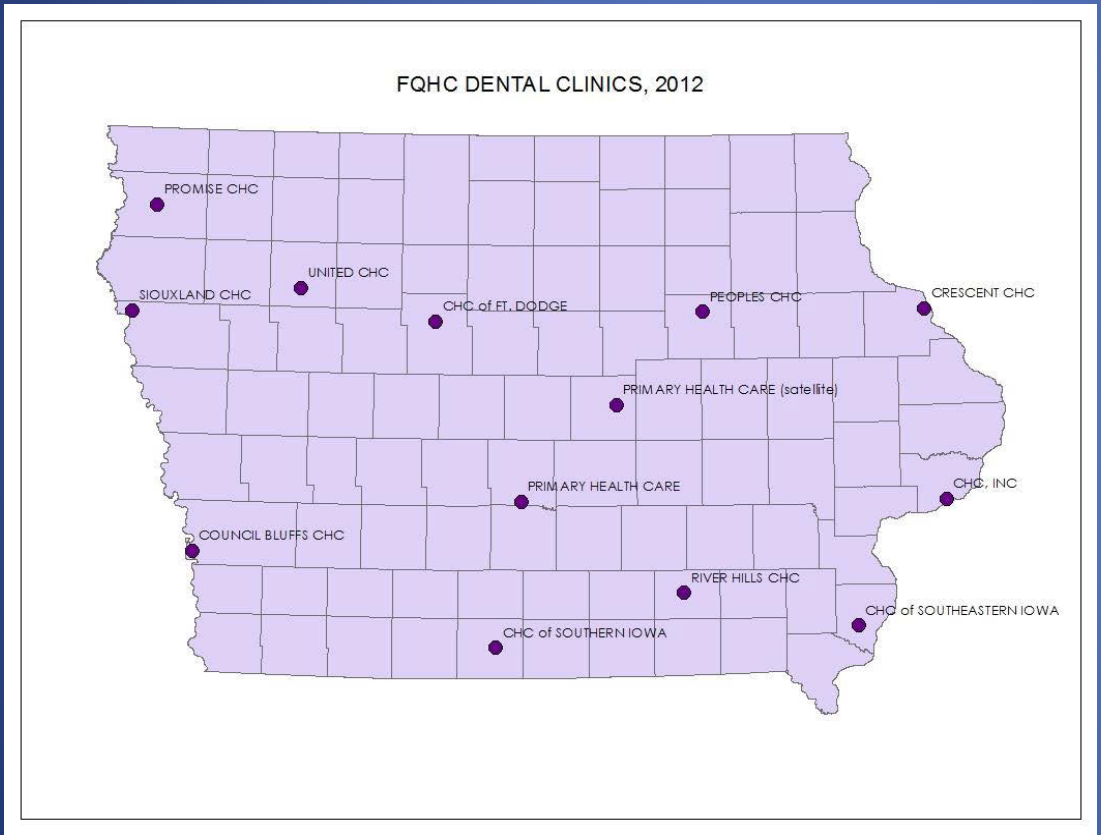
FQHC Dental Clinics



- 9 clinics in 2007 + 1 satellite
- 12 clinics in 2012 + 5 satellites

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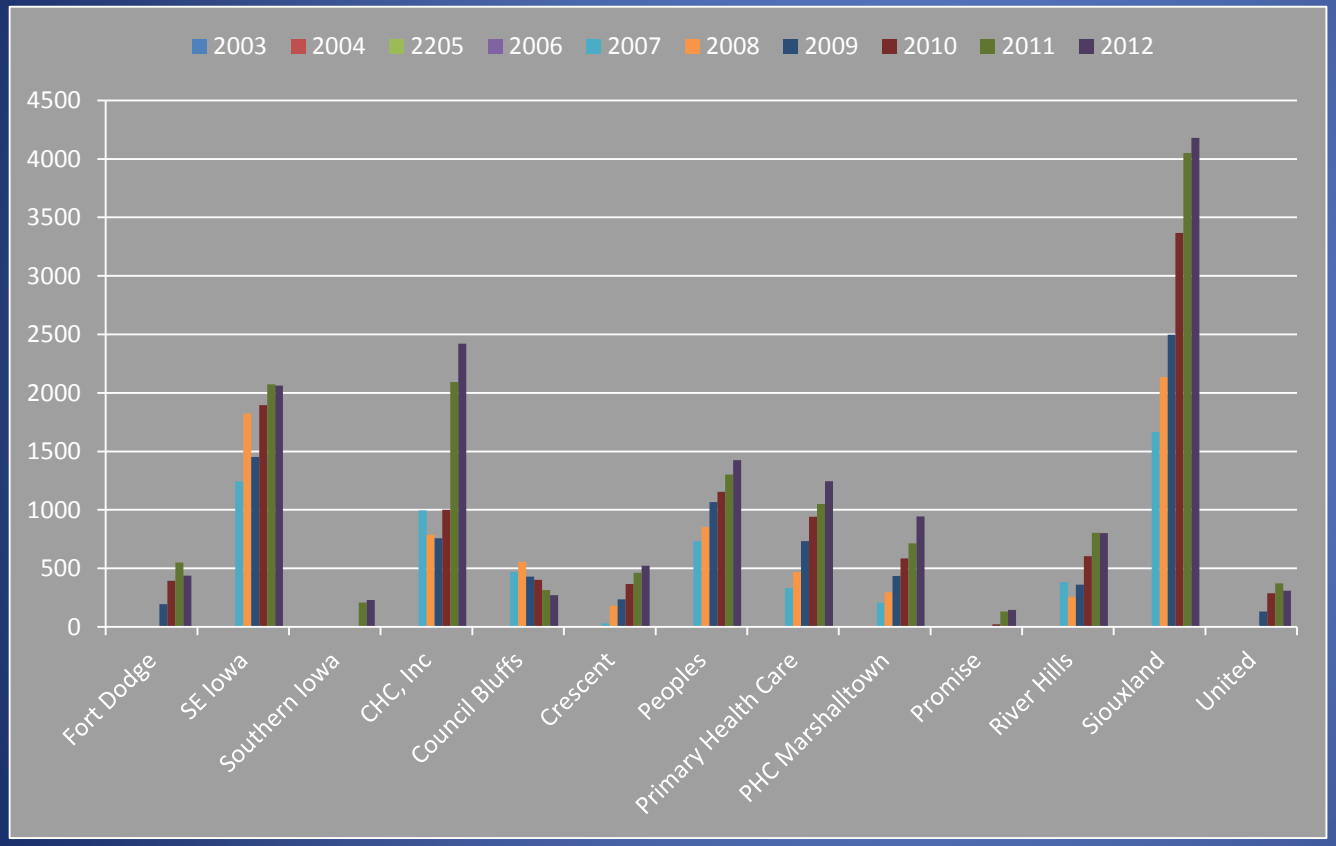
Unique child patients per FQHC

*Medicaid enrollees <21 years



2012:

- 14,949 patients
- 27,961 visits
- Largest volume clinics:
  - Siouxland CHC
  - CHC, Inc
  - CHC of Southeastern Iowa

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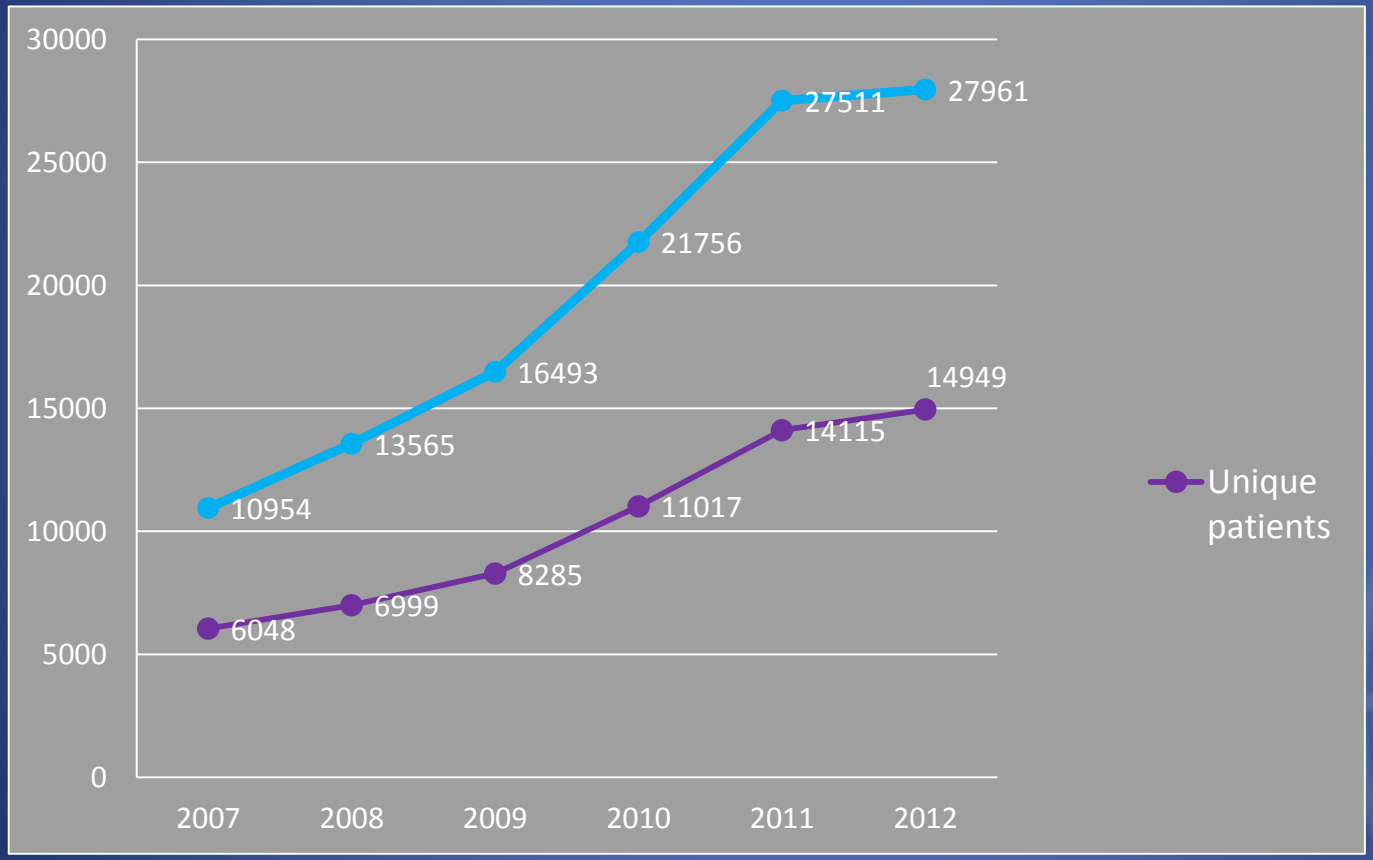
Trends in FQHC dental volume

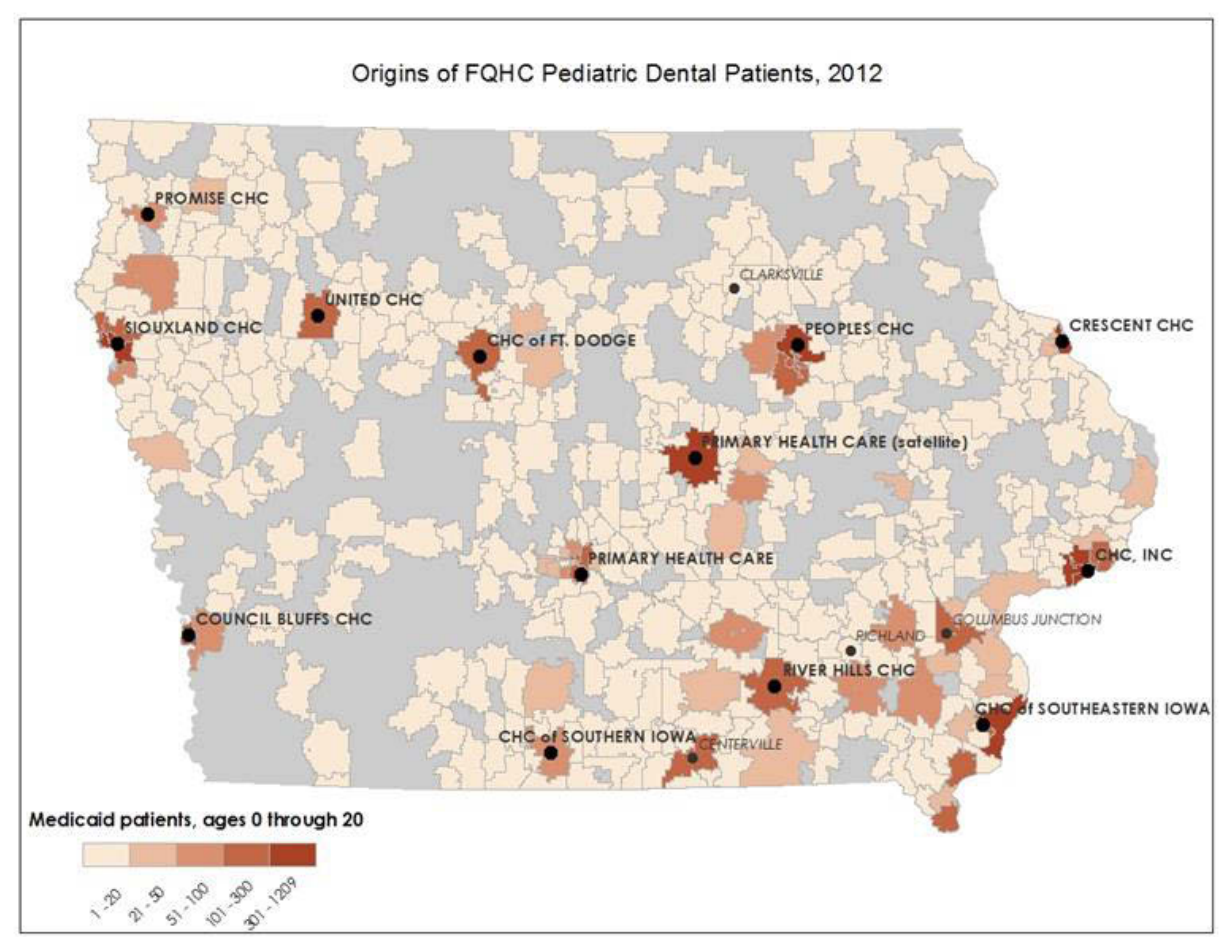
*pediatric Medicaid patients



- In 2007: 4% of Medicaid enrolled kids received dental care at an FQHC.
- Increased to 7% in 2012

Catchment Areas for FQHC Dental Clinics

*pediatric Medicaid patients



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THE DENTAL SAFETY NET IN IOWA: PRIVATE DENTISTS

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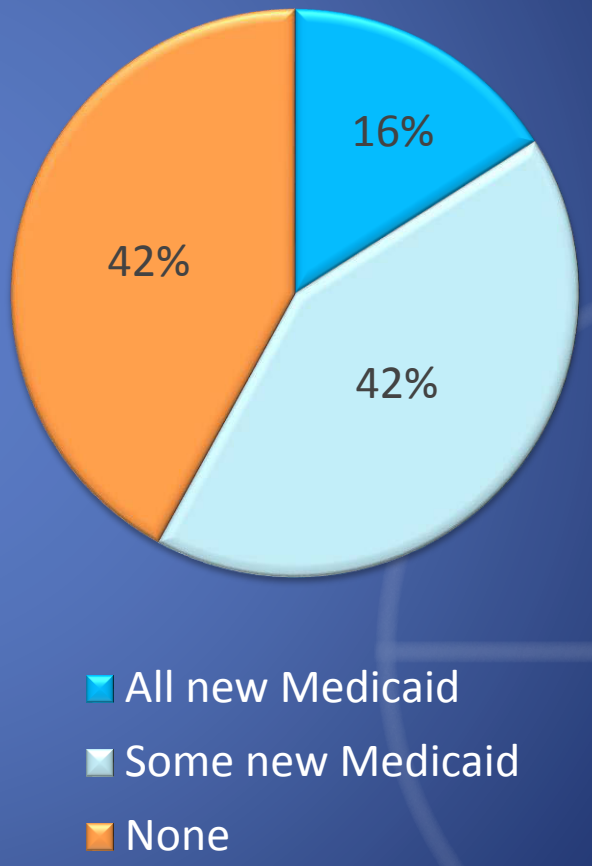
2013 Survey of Iowa Dentists

Medicaid Participation

- 58% response rate to the mail/online survey
- 58% of private dentists accept new Medicaid patients
- 80% of dentists that do not currently accept Medicaid treated Medicaid patients in the past



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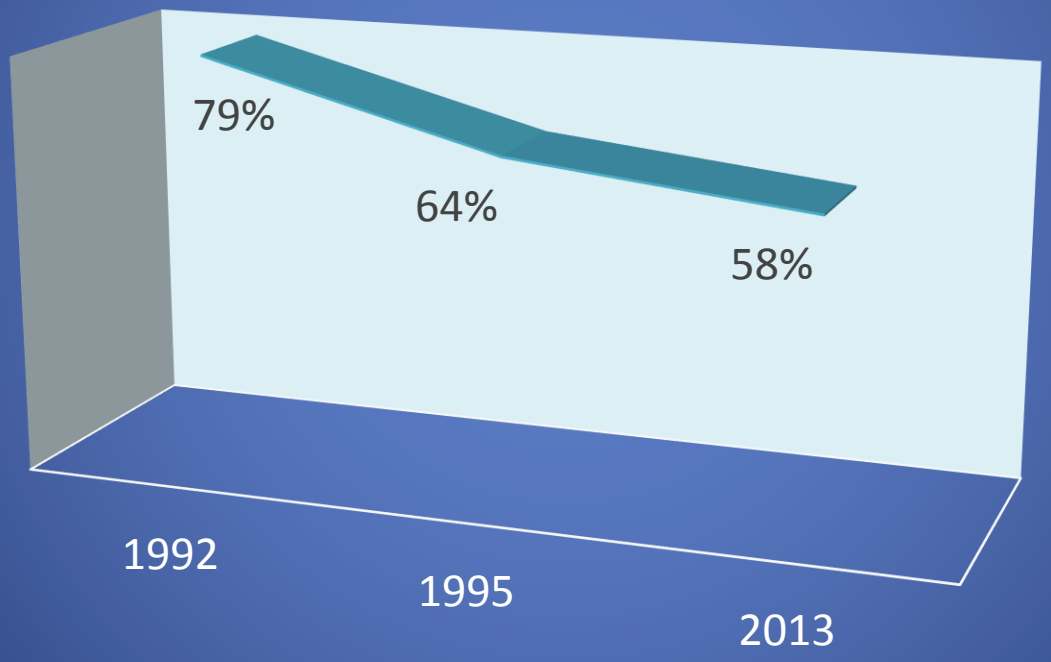
Overall Medicaid Participation

Comparisons with previous surveys



Dentists in Iowa that accept new Medicaid patients

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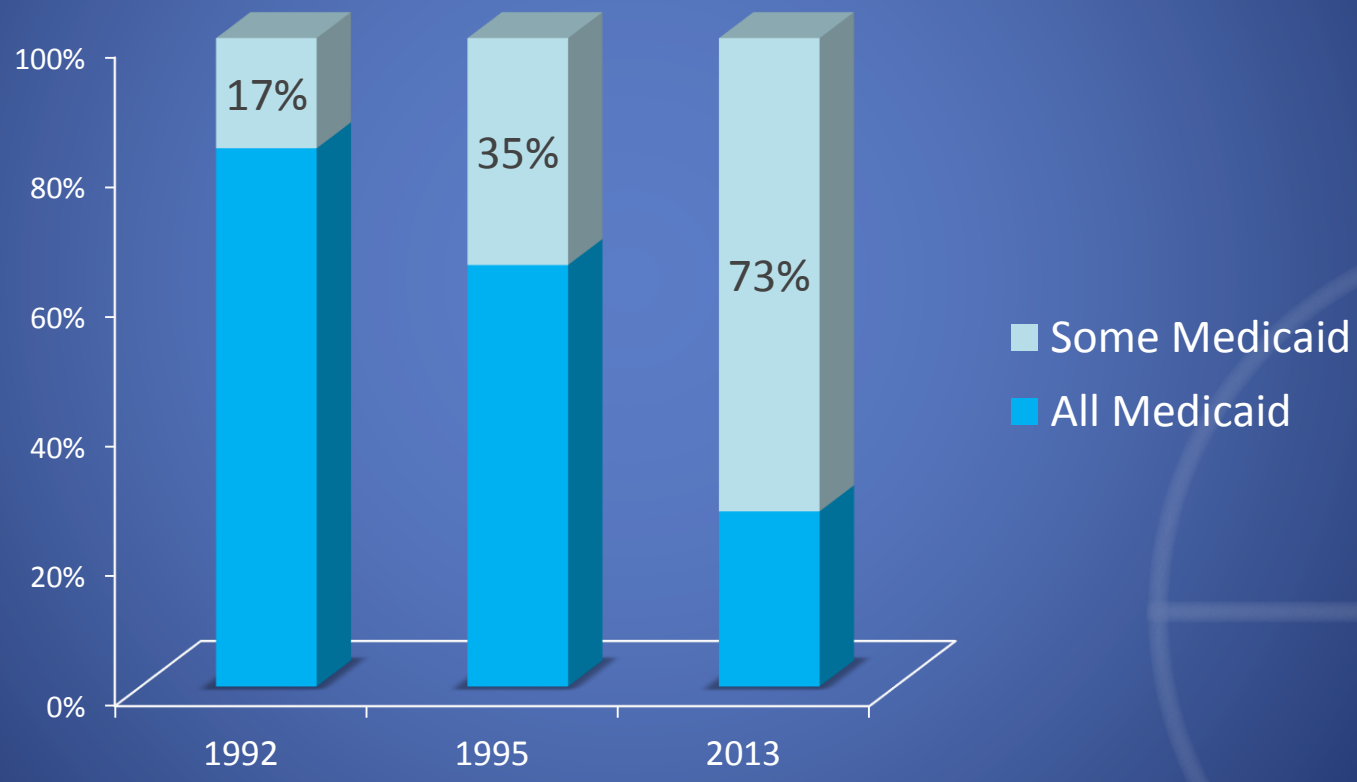
Trends in Medicaid Participation

Comparisons with previous surveys



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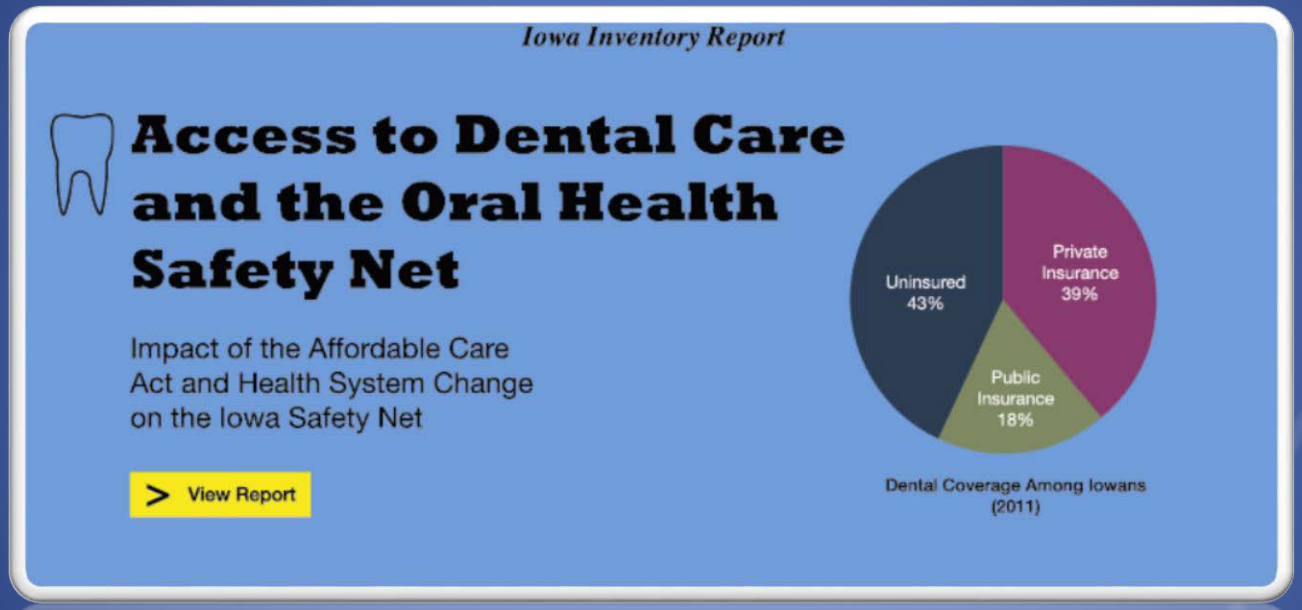
Where do dentists refer Medicaid patients that they do not accept?

The UI College of Dentistry	45%
Community Health Center	33%
Another local practice	25%
I don't have a good place to refer	25%
Iowa Medicaid "Find a Provider" website	10%
Local I-Smile coordinator	2%
Other	8%

Other Resources

Oral Health in Iowa: Inventory Report



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http://ppc.uiowa.edu