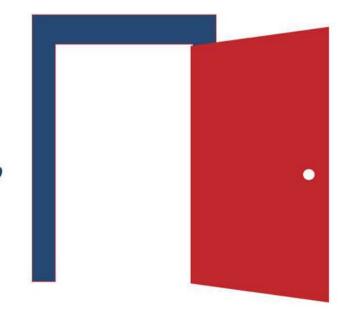
The Effects of
Occupational Licensure
on Competition, Consumers,
and the Workforce:

Empirical Research & Results



Welcome



The Effects of Occupational Licensure on Competition, Consumers, and the Workforce: Empirical Research and Results



Federal Trade Commission,

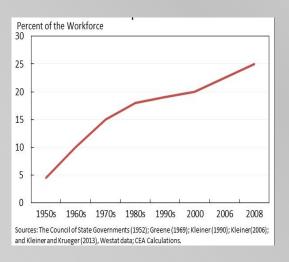
Washington, D.C.

November 7, 2017

Licensing Occupations: An Overview

Morris M. Kleiner, University of Minnesota, Twin-Cities

How Prevalent Is Occupational Licensing?*



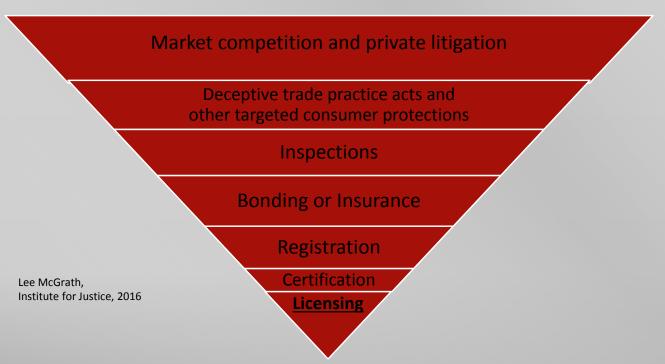
- In 2015, approximately 25% of workers required a license from the government.
- In 2003, more than 800 occupations were licensed in at least one state.

^{*}Wozniak et. al. White House Report, 2015

Extent of the Issue

- Over 800 occupations are licensed by at least one state
- Over 1,100 registered, certified, or licensed in at least one state
- 65 occupations licensed in all states

Use of least restrictive form of regulation consistent with policy goals



Former Supreme Court Justice Samuel Jackson

"The modern state owes and attempts to perform a duty to protect the public from those who seek for one purpose or another to obtain money. When one does so through the practice of a calling, the state may have an interest in shielding the public against the untrustworthy, the incompetent, or the irresponsible."

Market Economist Perspective

- "The puzzle is not why we have so many silly licensure laws, but why we don't have far more."
- On the other side, the great argument for the market is its tolerance of diversity; its ability to utilize a wide range of special knowledge and capacity. It renders special groups impotent to prevent experimentation and permits the customers and not the producers to decide what will serve the customers' best."

Milton Friedman, Capitalism and Freedom, University of Chicago Press, 1962

Why is occupational licensing important

Since licensing influences many more individuals in the United States and in some other nations than unions or the minimum wage, its evaluation should be important for social science researchers, policymakers, and citizens!

Licensing Wage Effects by Occupation

		-
Kleiner (2000)	Dentists, lawyers, barbers, and cosmetologists	Earnings are higher for licensed occupations that require more education and training relative to comparable unlicensed occupations.
Kleiner and Kudrle (2000)	Dentists	Practitioners in the most regulated states earn 12% more than those in the least regulated states.
Tenn (2000)	Lawyers	Low rates of interstate in migration and outmigration, a common effect of licensing, is associated with high wages.
Angrist and Guryan (2003)	Teachers	State-mandated teacher testing increases teacher salaries.
Timmons and Thornton (2013)	Massage Therapists	Licensing raises wages by more than 16 percent

Aggregate Impacts and Influence on Wages Attainment

Kleiner and Krueger, 2010 and 2013, 15% +

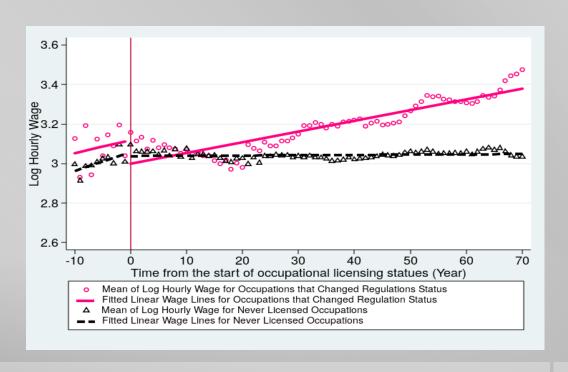
Kleiner and Volotnikov, 2017, 11 %

• Gittleman, Klee and Kleiner, forthcoming 9%

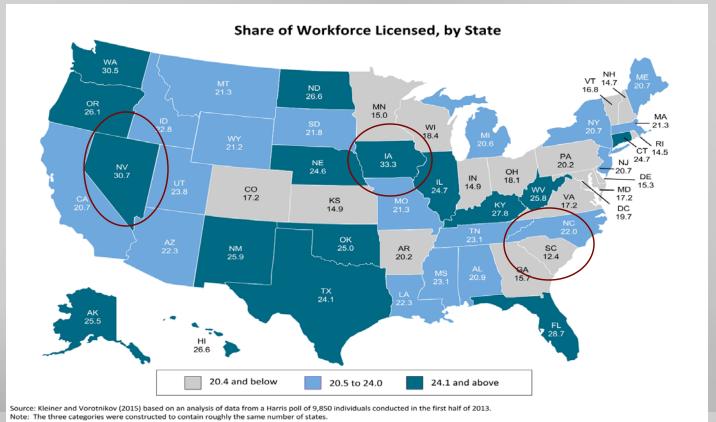
Coverage

■ Redbird, 2017, no effect

Plotting the Relationship between Earnings and Duration of Licensing Coverage in the U.S. (Han and Kleiner, 2017)

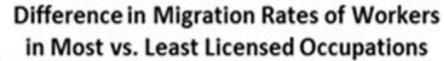


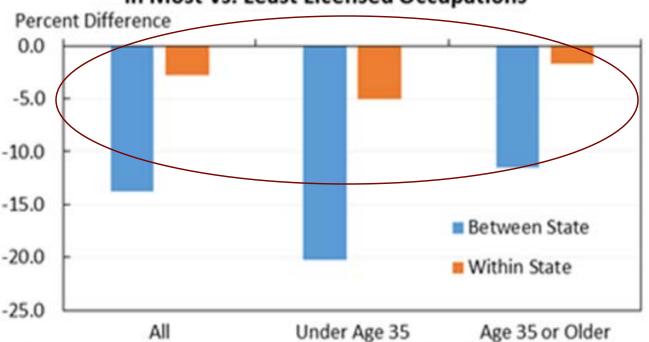
Harris Survey Estimates of Percent Licensed by State



Does Occupational Licensing Reduce Interstate Migration in the U.S.? (Johnson and Kleiner, 2017)

Interstate Migration Rates and Occupational Licensure, 1950-2008 0.04 0.35 0.035 0.3 Fraction of Workforce Licensed Gross Interstate Migration Rate 0.03 0.25 0.025 0.02 0.015 0.1 0.01 0.005 1945 1955 1965 1975 1985 1995 2005 2015 →Gross Migration Rate --Licensing Rate





Source: Census Bureau, American Community Survey 2010-2013; CEA Calculations. Number is calculated from an OLS regression controlling for race, citizenship, sex, citizenship, number of children, marital status, education, income, year, and state. Ages 25 to 65 were included.

Influence on Prices (from White House Report, 2015)

Occupational Licensing raises prices

Research Appendix Table 2. Studies on the Price Effects of Licensing						
Paper	Licensed Occupation	Type of Licensing Restriction Studied	Type of Price Studied	Percent Impact		
Kleiner et al. (2014)	Nursing	Medium level of regulation	Price of well-child medical exams	6.0		
Kleiner et al. (2014)	Nursing	High level of regulation	Price of well-child medical exam	16.0		
Kleiner and Todd (2009)	Mortgage Brokers	An additional \$100,000 in state broker bonding/net worth requirement	Probability that a mortgage is high- priced	5.4pp		
Kleiner and Todd (2009)	Mortgage Brokers	Index of other state broker licensing requirements	Probability that a mortgage is high- priced	No effect		
Kleiner and Kudrle (2000)	Dentistry	Pass rate of dental exam	Price of filling a cavity	-1.0		
Kleiner and Kudrle (2000)	Dentistry	High level of regulation (no reciprocity or endorsement)	Price of filling a cavity	11.0		
Kleiner and Kudrle (2000)	Dentistry	Restriction index based on regulation and pass rate levels relative to average	Price of filling a cavity	No effect		
Liang and Ogur (1987)	Dentistry	Restrictions on number of hygienists and assistants or their functions	Price of dental visit in 1970	5.0		
Liang and Ogur (1987)	Dentistry	Restrictions on number of hygienists and assistants or their functions	Price of dental visit in 1982	7.0		
Conrad and Sheldon (1982)	Dentistry	Limited reciprocity	Price index of dental services	3.3		
Conrad and Sheldon (1982)	Dentistry	Restrictions on the number of branch offices	Price index of services	4.0		
Conrad and Sheldon (1982)	Dentistry	Restrictions on the number of hygienists	Price index of services	4.0		
Shenard (1978)	Dentistry	No reciprocity (ability to	Prices of 12 different dental services	Ranges from 0.2		

Direct Quality Effects

- Health Care Sector
 - ✓ Early Midwifery and Maternal Mortality (Anderson et al. 2016)
 - ✓ Dentistry and Dental Outcomes (Kleiner & Kudrle 2000)
 - ✓ Nurse Practitioners and Infant Mortality (Kleiner et al. 2016)
- Education
 - ✓ State Certification Requirements and Teacher Quality (Angrist & Guryan 2007, Larson 2015)
- Service/ Finance Based Occupations
 - ✓ Licensing and Yelp Ratings (Deyo 2016)
 - ✓ Fund Managers and Required Information Disclosure (Berk and van Binsbergen, 2017)

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Licensing Occupations: An Overview

Thank you for your attention!

The Effects of Occupational Licensure on Competition, Consumers, and the Workforce: Empirical Research and Results



Dr. Edward Timmons Saint Francis University Director, Knee Center for the Study of Occupational Regulation November 7th, 2017



Occupational licensing research

- csorsfu.com
- Removal of licensing
- Non-physician scope of practice
- Licensing and economic mobility

csorsfu.com

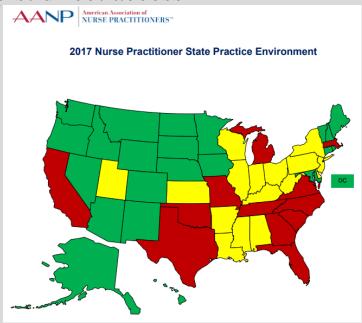


Removal of licensing

- Barbers in Alabama
- Hair braiders in Virginia
- Tracking de-licensing

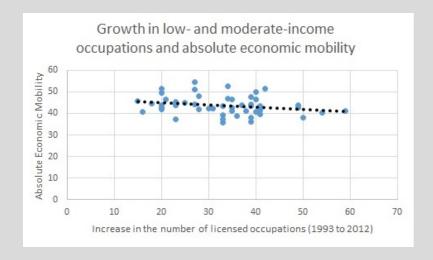
Non-physician scope of practice

- Nurse practitioner scope of practice and autonomy
- Physical therapist direct access



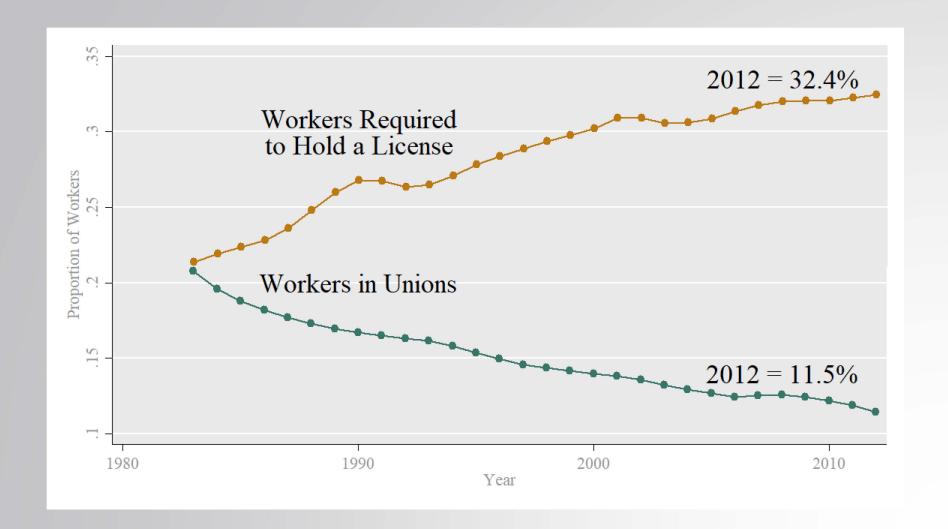
Licensing and economic mobility

- Low-income licensing and economic mobility
- Preliminary evidence of a negative correlation

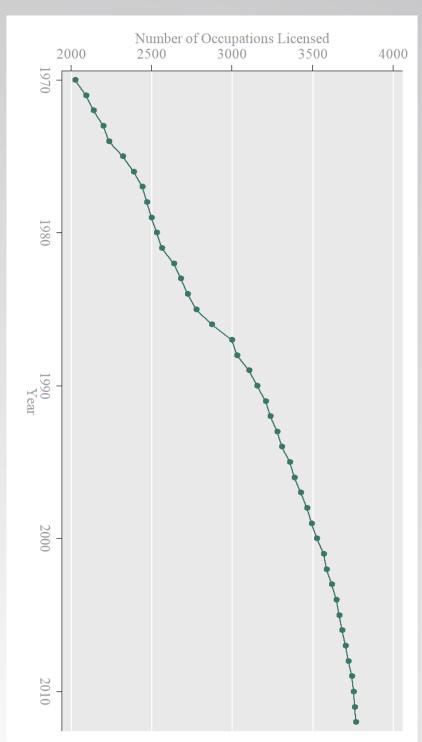


The Economic and Structural Effects of Occupational Licensure

Beth Redbird, PhD Assistant Professor Northwestern University



Growth in Licensing Laws



This Study

340 Occupations

1,741 New Laws

50 States

1970-2012

Unlicensed

Licensed

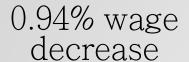


















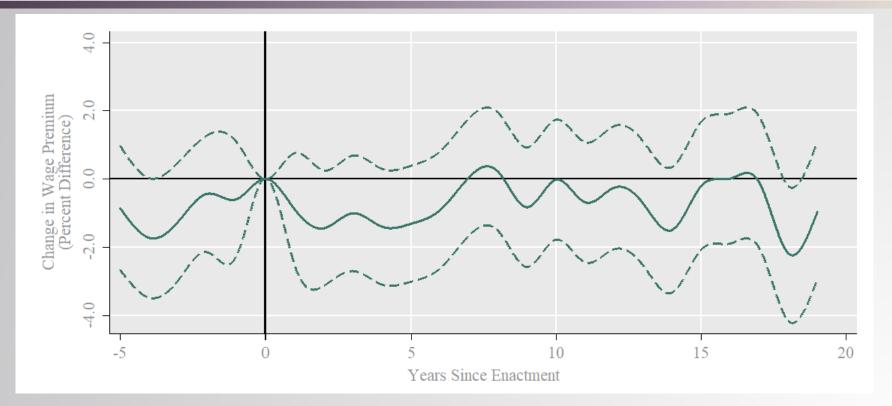


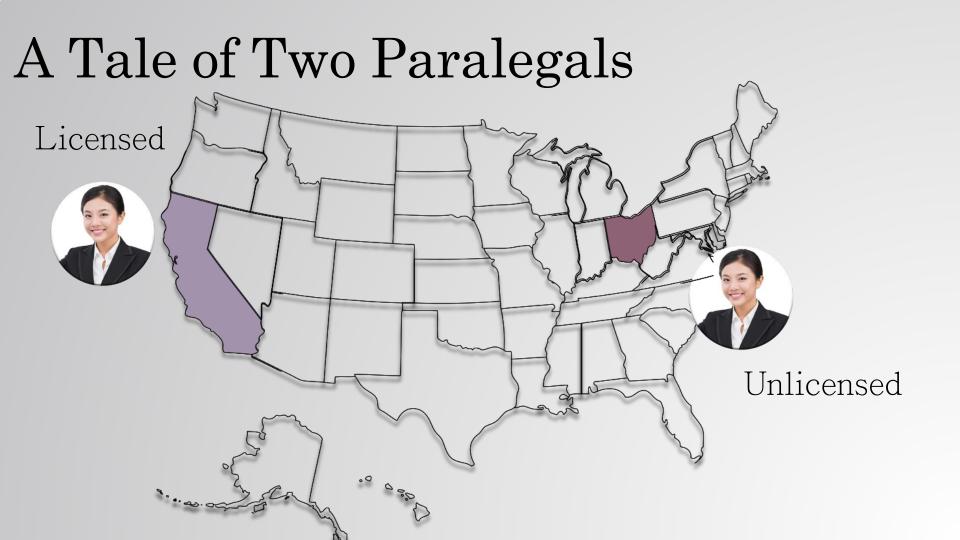




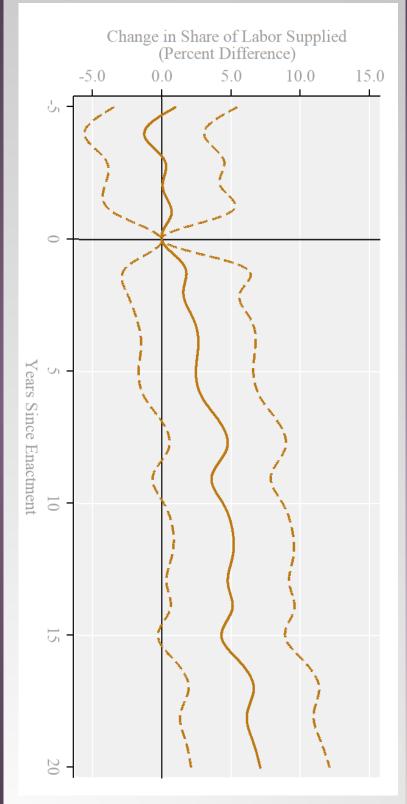


Wages After Enactment

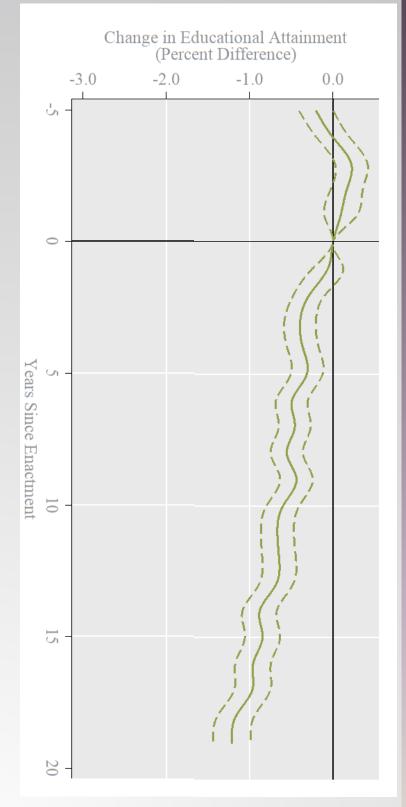




Decrease Supply:



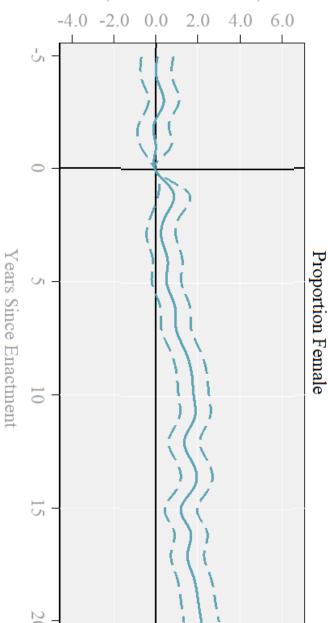
Increase Quality?



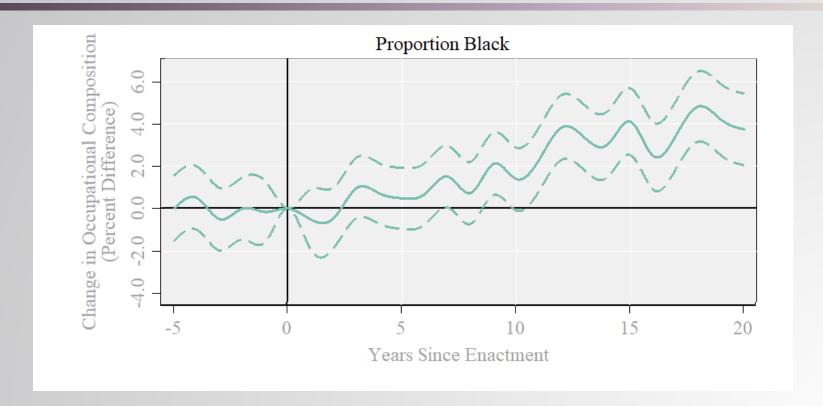
Results Vary

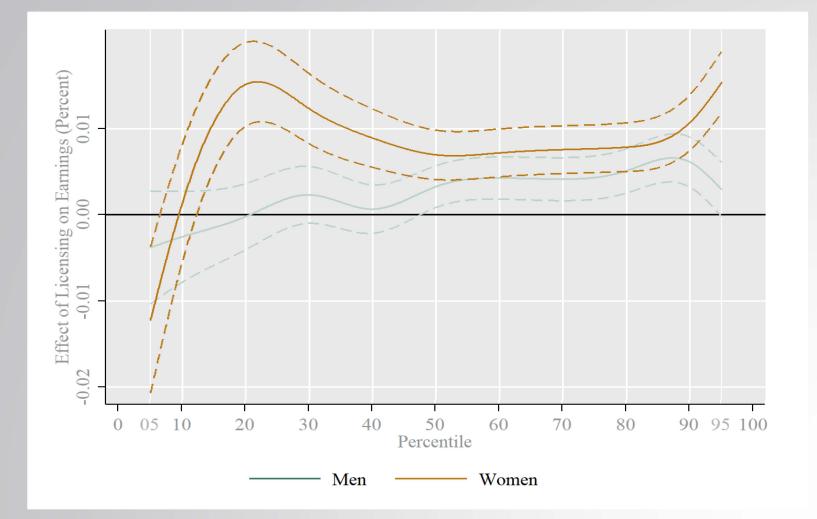




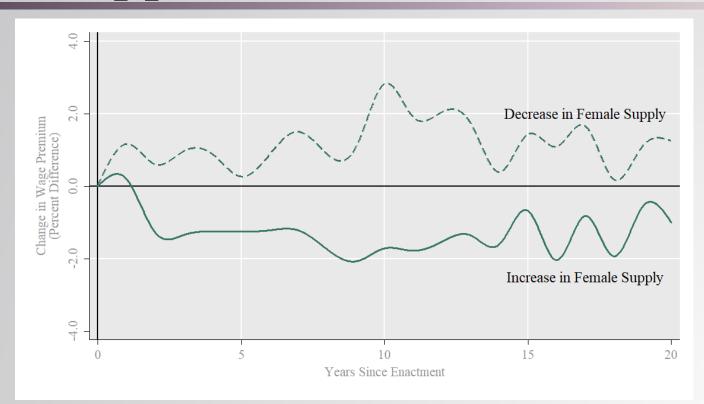


Increased Access





What Happened?



Where does licensing appear?

1,734 New Licensing Laws				
Mixed Control	0.01			
Republican Control	-0.41***			
Unionized	0.97***			
Vocational Education Available	1.36***			
Education Level	0.14***			
Deals with Customers	0.04***			
Dangerous Conditions	0.01***			
Error are Significant	0.04***			
Hazardous Materials	0.01***			
Physical Labor	-0.01***			
legend: * p<.05; ** p<.01; *** p<.001				

