

Supply- and Demand-side factors influencing endemic drug use in America Michael Betz

Assistant Professor, Dept. of Human Sciences



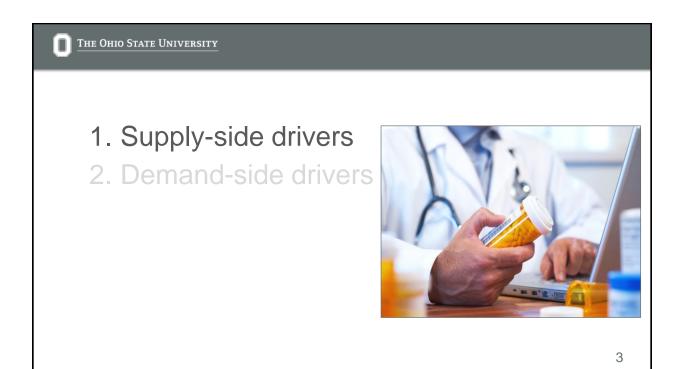
Demand versus Supply Drivers

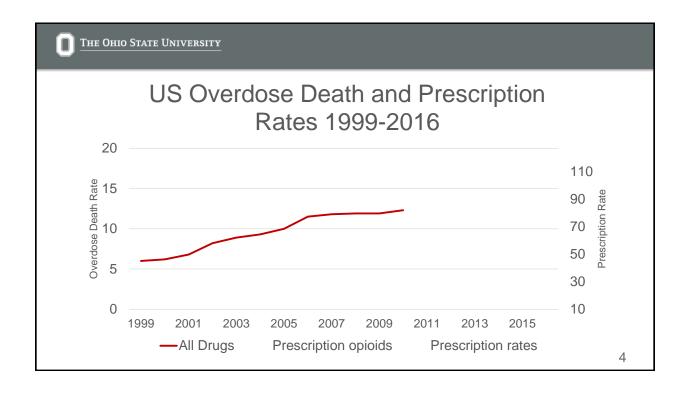
Supply-side drivers

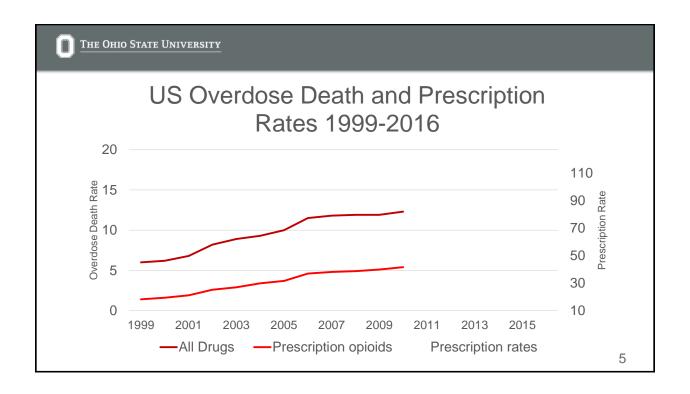
Increasing availability of powerful drugs

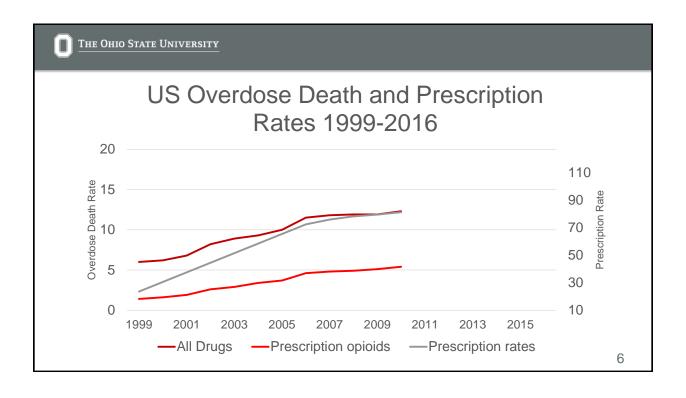
Demand-side drivers

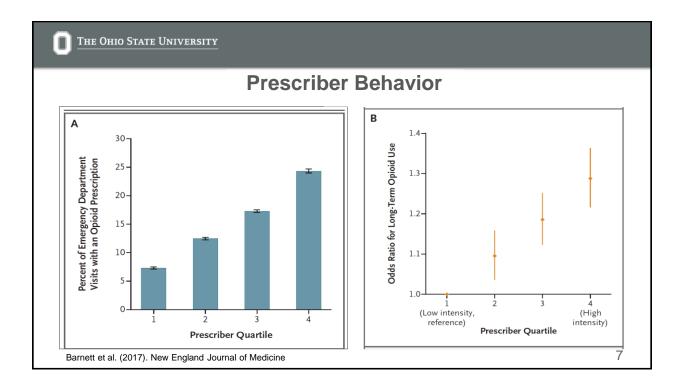
Increasing demand for deadly substances









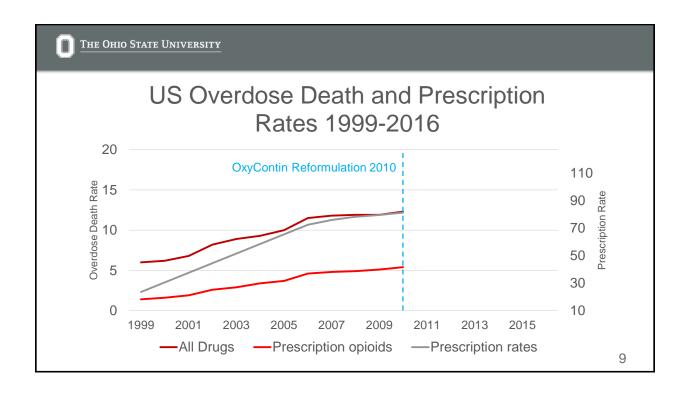


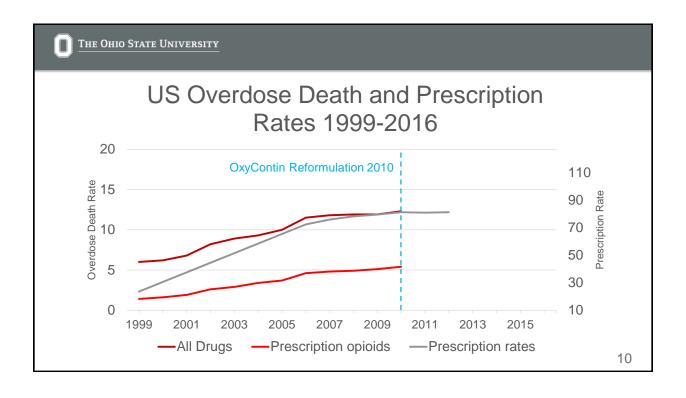
Drug Reformulations

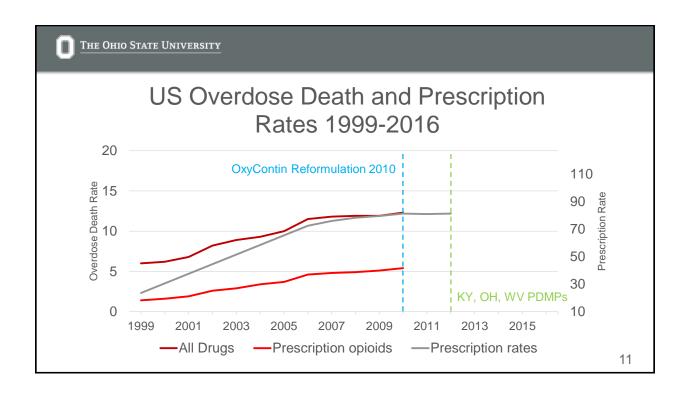
2010 Abuse-resistant OxyContin released

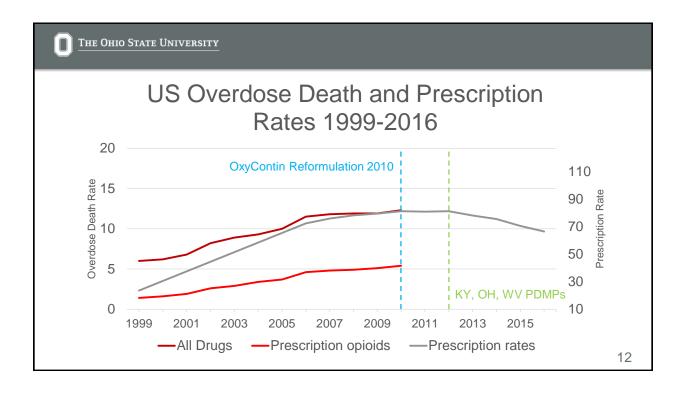
PDMPs

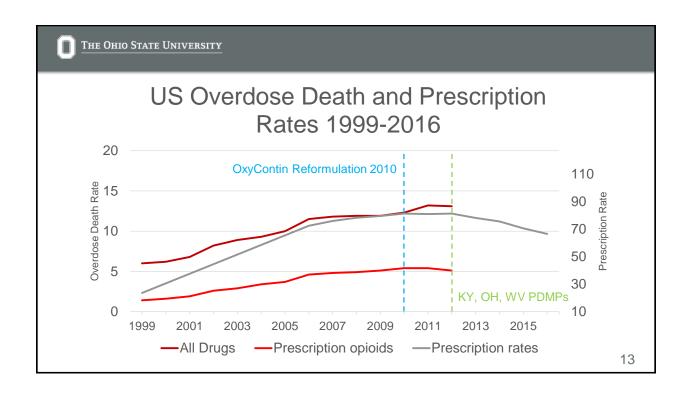
- 2012 Kentucky, Ohio, and West Virginia
- 2015 Pennsylvania

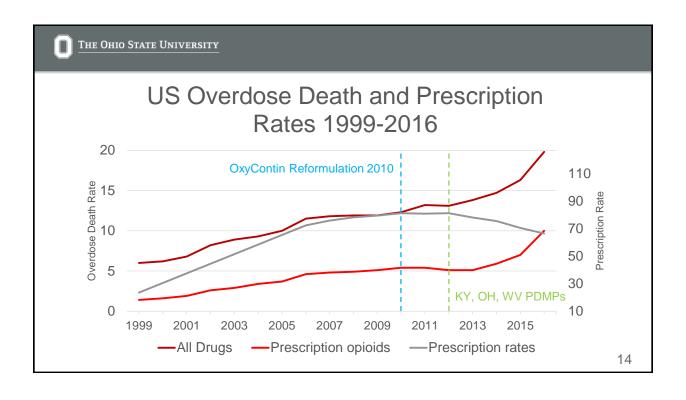












Overview

- 1. Supply-side drivers
- 2. Demand-side drivers



15

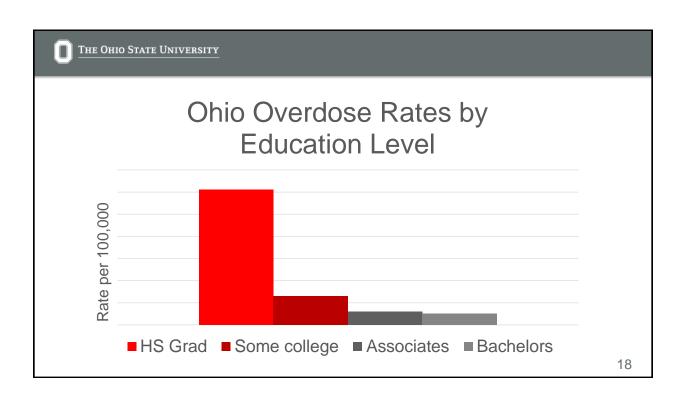
THE OHIO STATE UNIVERSITY

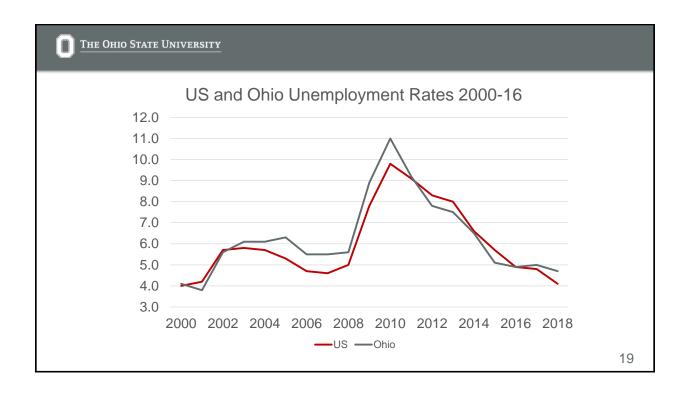
Demand-side Factors

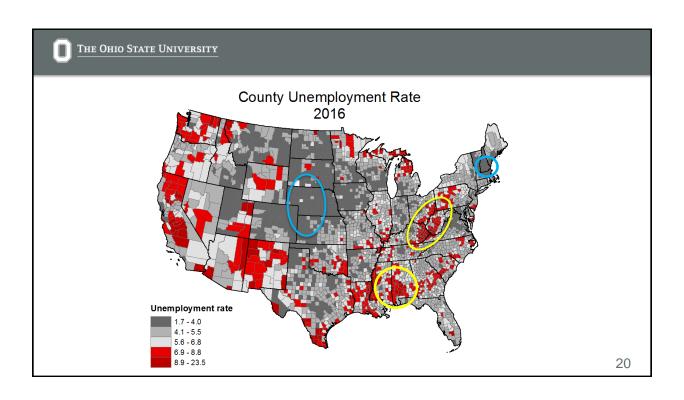
- Community economic disadvantage
- Mental health problems
- Relational problems
- Health conditions (chronic pain, sedentary life styles, etc.)

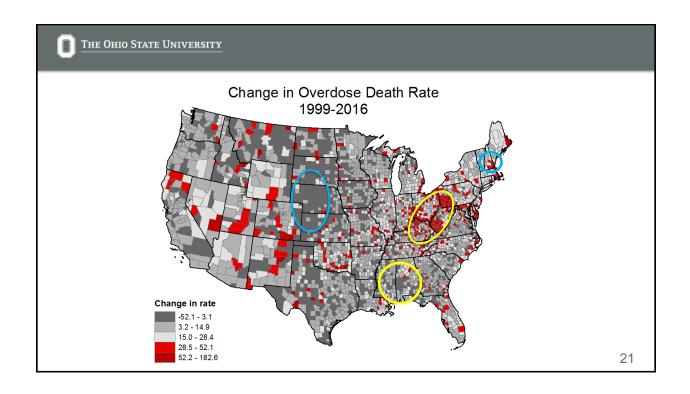
Demand-side Factors

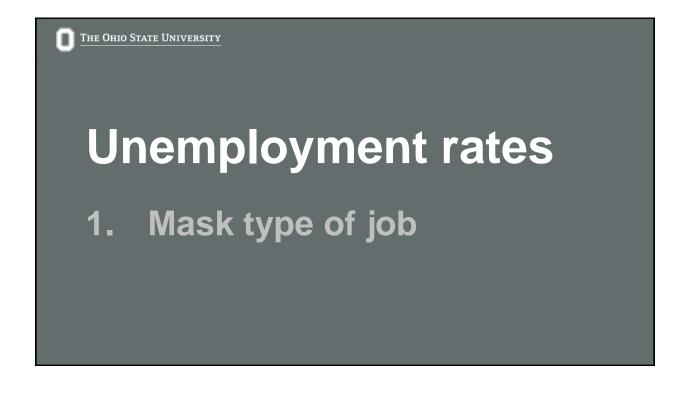
- Community economic disadvantage
- Mental health problems
- Relational problems
- Health conditions (chronic pain, sedentary life styles, etc.)

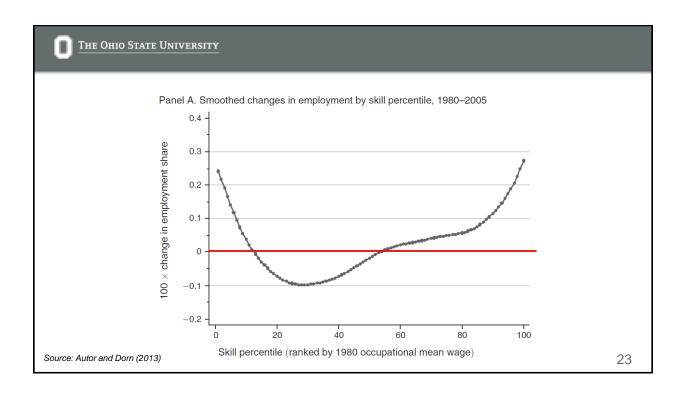


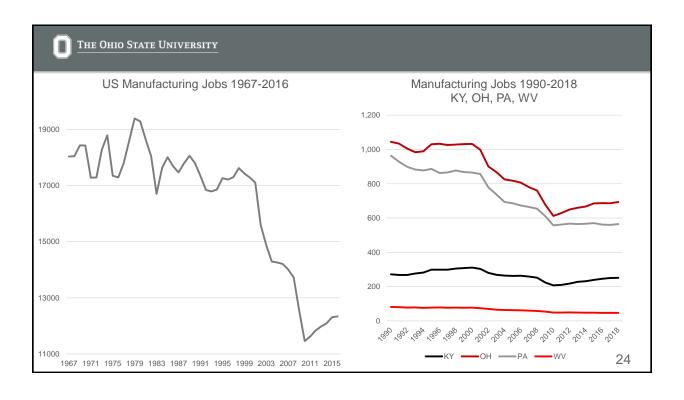


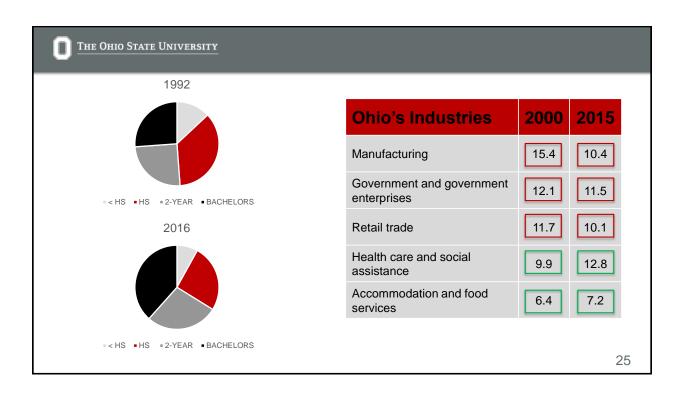


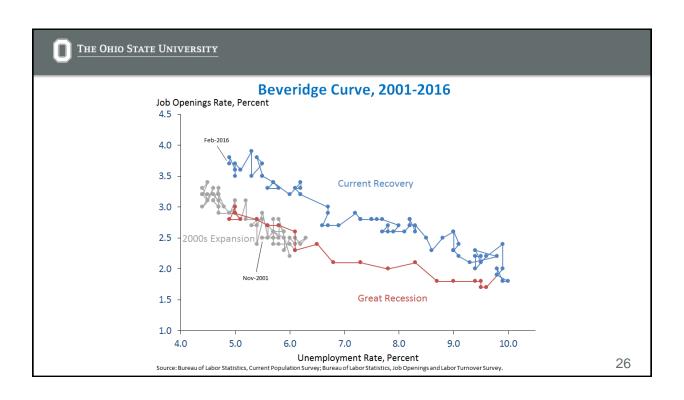








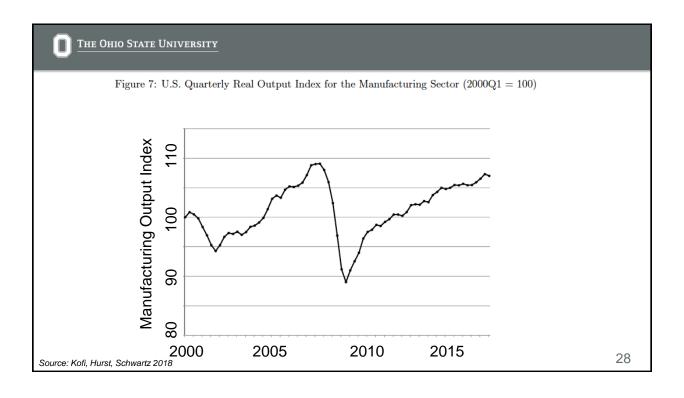


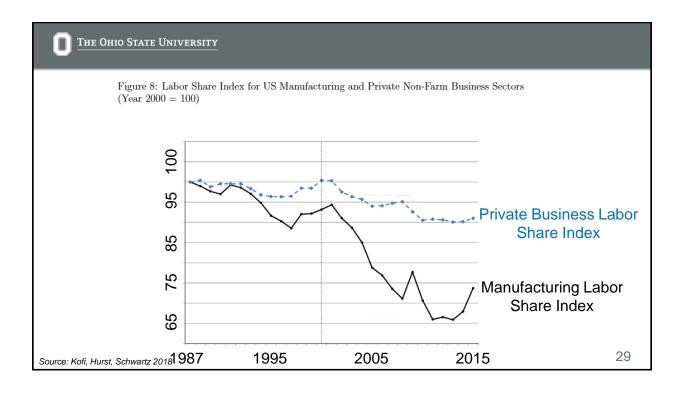


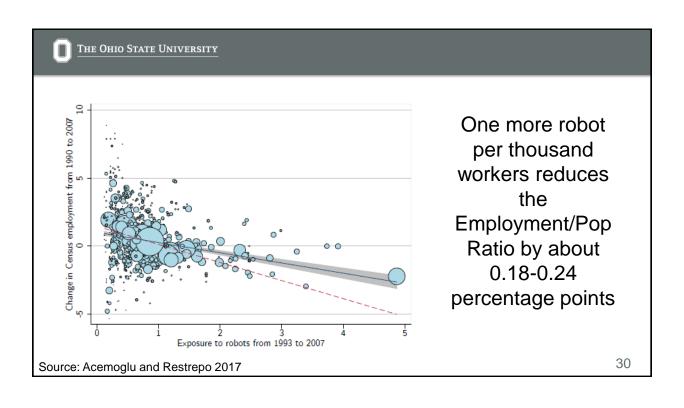


Koffi, Hurst, and Schwartz (2018)

- Manufacturing decline lowered incomes for prime aged workers
- State manufacturing decline increased OD rates (causal)









Carnegie Mellon Reels After Uber Lures Away Researchers

Uber staffs new tech center with researchers poached from its collaborator on self-driving technology

Robot spending will hit \$188 billion by 2020, report predicts

Robotics and related services are expected to reach new heights, driven by an expanding market.

Amazon opens grocery store with no checkouts

January 22, 2018

31



Currently 47 million workers with HS degree or less

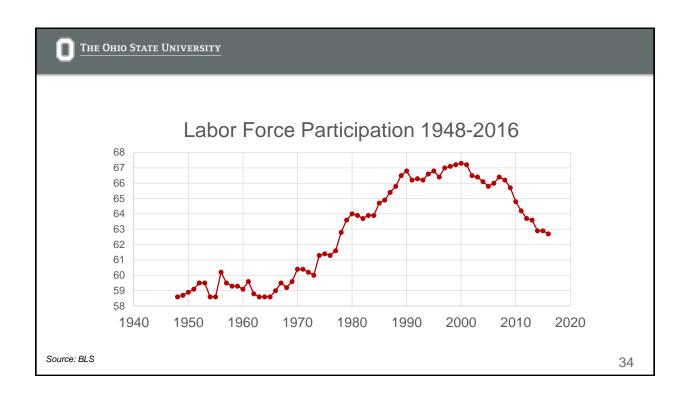
Driving: 3.4 million

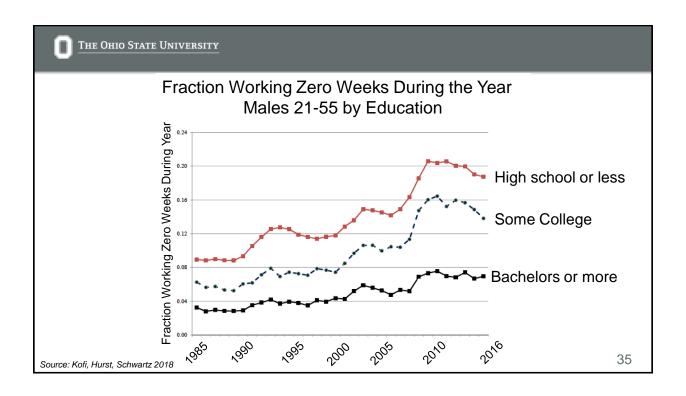
Grocery store attendants: 2.4 million

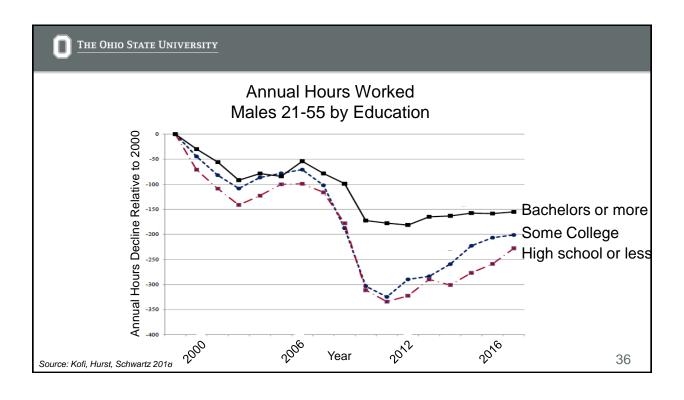
Fast food counter workers: 3.7 million

Unemployment rates

- 1. Mask type of job
- 2. Mask LF participation









Men NLF express much lower levels of meaning to their daily lives than LF men

Not so for women

Half of prime age men NLF use daily pain medication (Krueger 2017)

37

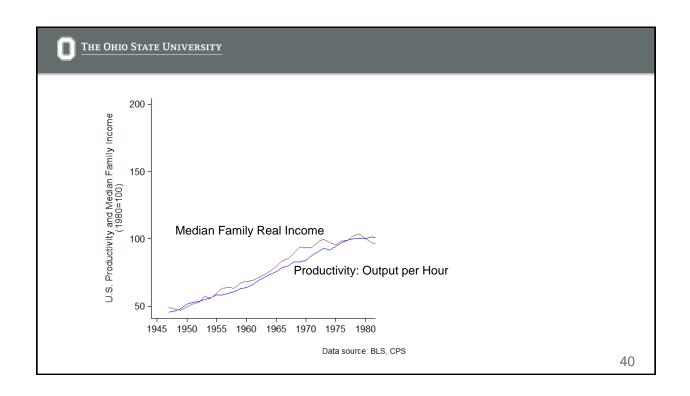


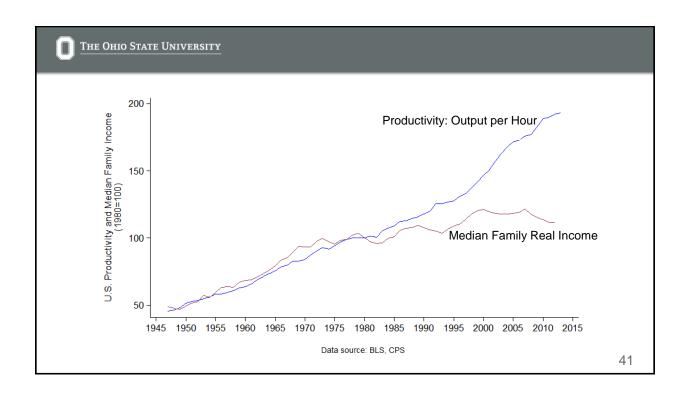
In 2016, ~2.1 million people with opioid use disorder

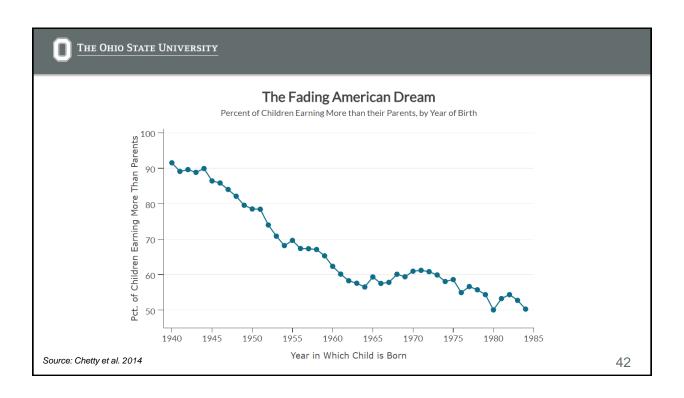
Could account for 78% of non-boomer LFP drop

Could be 100% in KY, OH, PA, WV

Consequences of Job Bifurcation and Decreased LFP







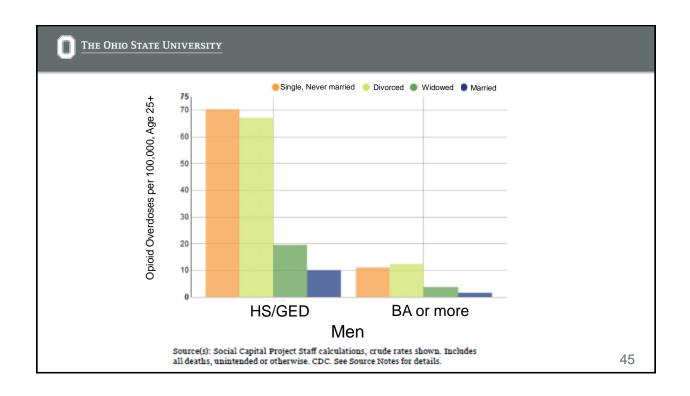
Academic Research

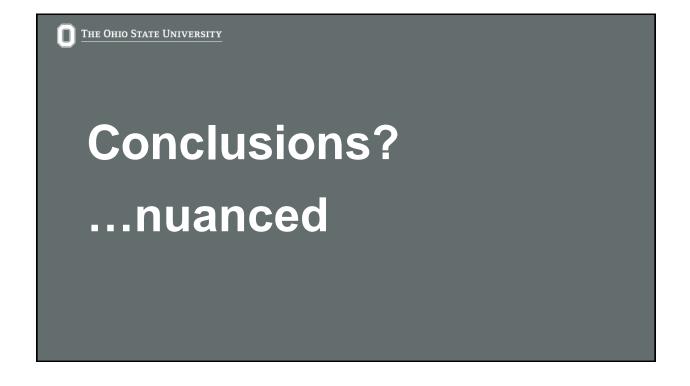
- Hollingsworth et al. 2017
- Kreuger 2017
- Betz and Jones 2018
- Kofi, Hurst, Schwartz 2018
- Ruhm 2018; Currie, Jin, Schnell 2018

43



Demand side: Relationships

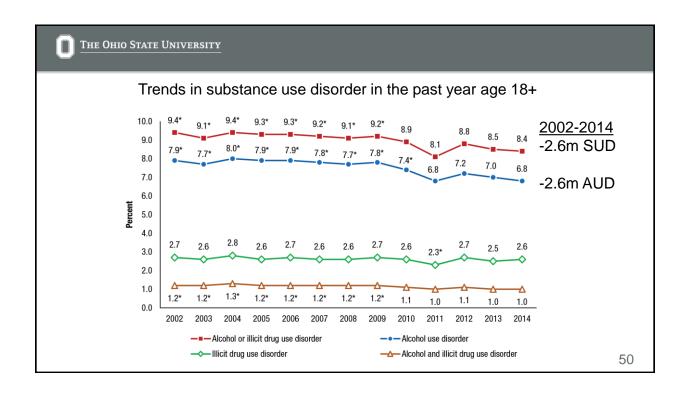


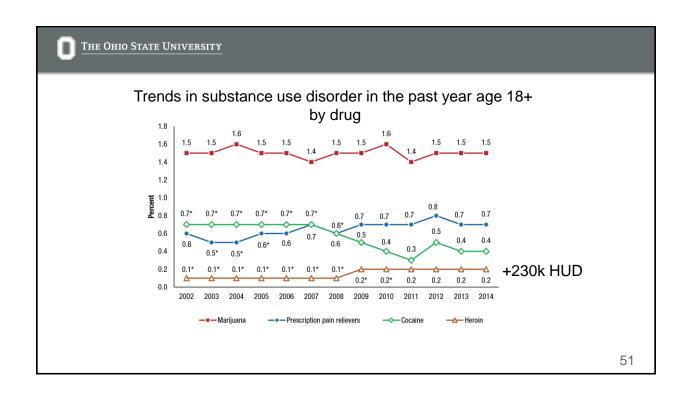


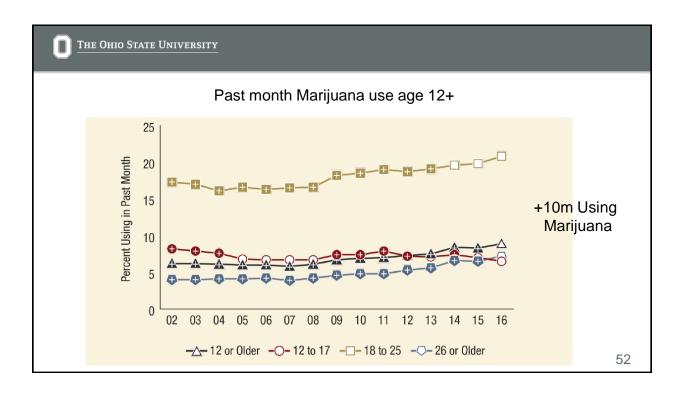
THE OHIO STATE UNIVERSITY			
Leading Causes of Death Under 55 in 2016			
Cause	KY, OH, PA, WV	US	
Drug overdoses	10,415	56,679	
Cancer	6,422	58,740	
Heart disease	5,694	49,498	
Suicide	3,048	28,999	
Homicide	1,638	16,970	
Chronic liver disease	998	12,190	

The Ohio State University		
Leading Causes of Death Under 55 in 2016		
Cause	KY, OH, PA, WV	US
Drug overdoses	10,415	56,679
Cancer	6,422	58,740
Heart disease	5,694	49,498
Suicide	3,048	28,999
Homicide	1,638	16,970
Chronic liver disease	998	12,190

e overdoses	KY, OH, PA, WV 10,415	US 56,679
	10,415	56,679
r	6,422	58,740
disease	5,694	49,498
le	3,048	28,999
ide	1,638	16,970
ic liver disease	998	12,190
	·	







Takeaways

- 1. US drug crisis is more than a supply problem
- Decline in economic opportunity impactsOD rates
- 3. Coming automation will likely exacerbate

53



Policy recommendations

Prevent new users

- 1. More thoughtful (slower) approach to economic policy
- 2. Investments in education/health
- 3. Better support of families EITC
- 4. Reduce prescription rates back to 1995 levels
- 5. Increase access to alternatives: Marijuana with caveats



Policy recommendations

Help existing users

- 1. Increase treatment for those already addicted
- 2. Reducing supply of illicit drugs...good luck

55



Thank You! Betz.40@osu.edu