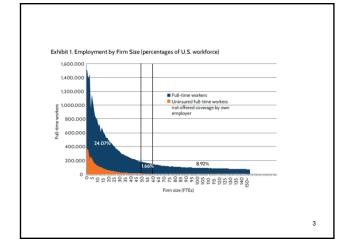
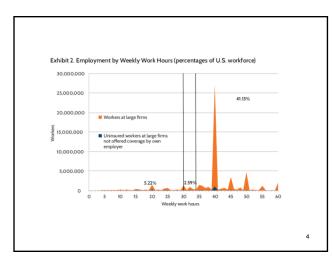
The Affordable Care Act: The results

Health Economics Bill Evans

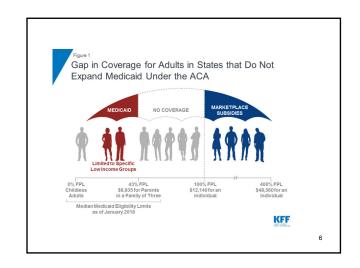
Likely impacts

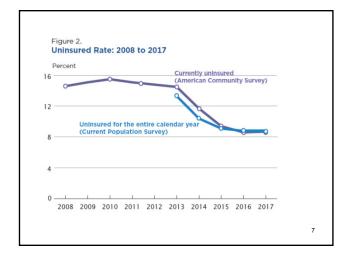
- Four main changes
 - Medicaid expansions
 - Exchanges and subsidies
 - Individual mandate
 - Employer mandate
- What are the likely effects of each?
- Why is this a tough question to answer (except Medicaid expansions)?

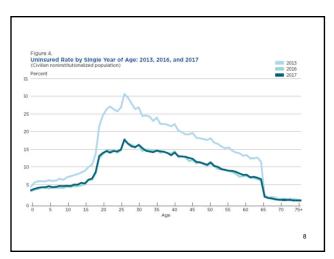


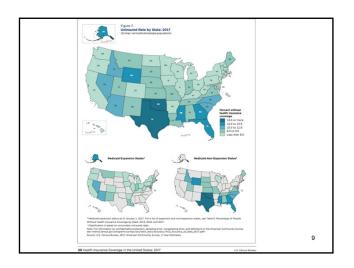


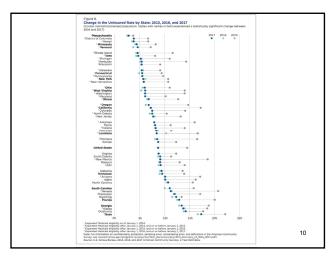
ull-time workers in firms with 50-59 FTE employees	111,970,095	100.00%	-
	1,670,000	1.66%	100.00%
Holding own ESI	1,199,000	1.07%	71.80%
Without own ESI	471,000	0.42%	28.20%
Not offered coverage by own employer	193.000	0.17%	11.56%
Uninsured and not offered coverage by own employer	100,000	0.09%	5.99%

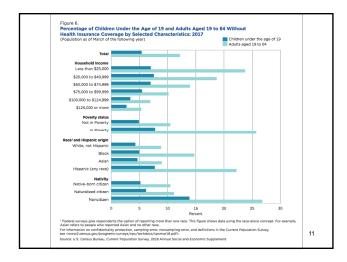












Courtmarche et al.

- How much of the change in uninsurance can be attributed to
 - Medicaid expansions
 - Other factors
- Problem they face:
 - ACA was a national law
 - What is the control group?
 - Can easily identify them for Medicaid expansions

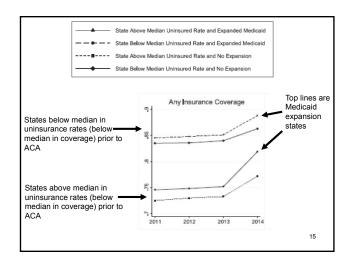
Data

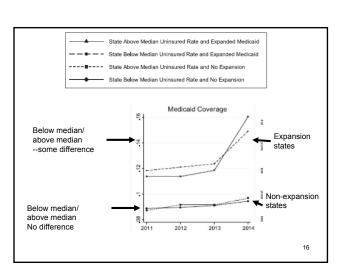
- 2011-2014 American Community Survey
- Annual 1% sample of the US population
- 2350 public use micro data areas (PUMAs)
 - Groups of 100,000 people in a similar geographic area
- Non-elderly
- Four outcomes do you have
 - Medicaid? EPHI? Private insurance? No insurance?

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Variation used to identify model

- Medicaid expansions
 - State with expansions are treatment
 - Those that did not are control
- For aggregate impacts
 - Results should be different for high insured states
 - Out old friend comes back (Bleakley (Hookworms), Culter et al. (Malaria in India)





What is missing from this DnD model?

We begin with a DD specification:

```
y_{iast} = \beta_0 + \beta_1 POST_t + \beta_2 (MEDICAID_s \times POST_t) + \beta_3 \mathbf{X}_{iast} + \alpha_{as} + \varepsilon_{iast}  (1)
```

where y_{iast} is the outcome for individual i in local area a in state s in year t. POST, is an indicator for whether period t is in the post-treatment year of 2014, MEDICAID, is an indicator for whether state s participated in the ACA's 2014 Medicaid expansion, X_{iast} is a vector of control variables, α_{ai} is a local area fixed effect, and s_{iast} is the error term.¹⁷ Standard errors are heteroscedasticity-robust and clustered by state.

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Augmented model

not been implemented, and also to allow for a Medicaid-expansion-state-specific shift in the fixed effect in 2014. Assuming that the extent of an area's treatment is proportional to its baseline uninsured rate, the DDD model is as follows:

 $y_{iast} = \gamma_0 + \gamma_1 \left(\text{UNINSURED}_{as} \times \text{POST}_t \right) + \gamma_2 (\text{MEDICAID}_s \times \text{POST}_t)$

+ γ_3 (UNINSURED_{as} × MEDICAID_s × POST_t) + γ_4 **X**_{iast} + τ_{τ} + α_{as} + ε_{iast} (2)

where UNINSURED_{ac} is the 2013 uninsured rate in local are a in state s and \(\tau_t \) is a year fixed effect. Note that POST_t is no longer included in the model since it is perfectly collinear with the year fixed effects, while MEDL AID_s, UNINSURED_t, and UNINSURED_t x MEDICAID_s are not separately included since they are perfectly collinear with the area fixed effects.

Now year effects added

This specification is similar to one we've seen in the past? Which one?

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Table 2. Effect of ACA on probability of having any insurance coverage with different sets of controls.

How to translate results

- Average baseline uninsurance rate is 0.203
- Impact of ACA without Medicaid expansion
 - Coef on post x uninsurance rate = 0.138(0.203)=
 0.028 (2.8 per point increase in insurance coverage)
- Impact of ACA w Medicaid expansions
 - Medicaid exp. x post x unins. = 0.151*.203 = 0.031
 - Total Effect = 0.028 + 0.031 = 0.059
 - Medicaid expansions are 0.031/0.059=52%

Frean et al.

- Examine the impact of the ACA
- More ambitious that the previous paper
 - Try to unpack more components such as premium subsidies
- Problem
 - What is the variation used to identify the individual aspects?
 - Asking a lot of a limited data set so results have large confidence intervals

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Data

- Same data as the previous paper diff. years
- 2012-2015 American Community Survey

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Policy measured

- Exchange subsidies
 - % subsidy = 1- new premium/unsubsidized premium
 - Use family income and subsidy rules to calculate
- Mandate
 - Use family income to calculate the fine
 - fine varies
 - Over time
 - Across people (some people hit the cap some do not)

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Medicaid expansions

- % previous eligible
 - What is the woodwork effect?
- % eligible under ACA early expansion
 - 2011-2014 in 6 states
- % newly eligible in 2014

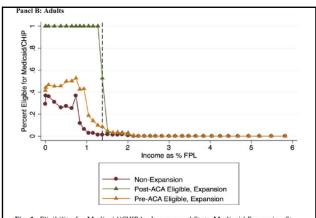


Fig. 1. Eligibility for Medicaid/CHIP by Income and State Medicaid Expansion Sta-tus. Notes: Top panel represents child eligibility and bottom panel represents adult eligibility. Dashed vertical line indicates 138% of the Federal Poverty Level (FPL).

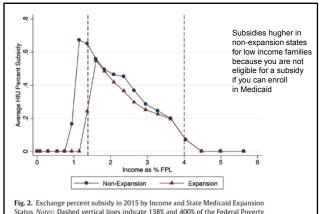
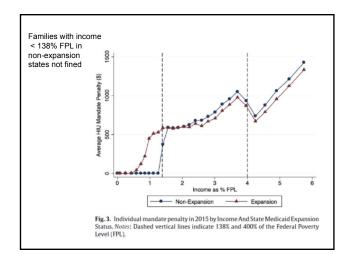
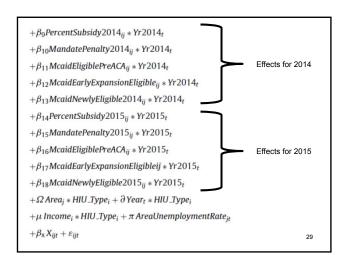


Fig. 2. Exchange percent subsidy in 2015 by Income and State Medicaid Expansion Status. *Notes*: Dashed vertical lines indicate 138% and 400% of the Federal Poverty Level (FPL).



 $%Uninsuredijt = \beta_0 + \beta_1 PercentSubsidy2014_{ij}$ $+\beta_2$ PercentSubsidy $2015_{ij}+\beta_3$ MandatePenalty 2014_{ij} $+\beta_{4} \textit{MandatePenalty} 2015_{ij} + \beta_{5} \textit{McaidEligiblePreACA}_{ij}$ $+\beta_6$ McaidEarlyExpansionEligible_{ij} $+\beta_7$ McaidNewlyEligible2014_{ij} $+\beta_8 M caid Newly Eligible 2015_{ij}$ 28



	2014	2015
Medicaid eligibility		
Percent previously eligible ^a	23.0% (31.9%)	22.7% (31.7%)
Percent eligible under ACA early expansion	2.0% (11.1%)	1.9% (10.9%)
Percent newly eligible in 2014	4.5% (18.2%)	5.5% (19.7%)
ndividual mandate		
Family mandate penalty	\$458 (\$632)	\$956 (\$1210)
Subject to mandate penalty	63.7% (41.0%)	64.5% (40.5%)
Exchange premiums		
Unsubsidized family premium	\$8023 (\$3282)	\$8114 (\$3298)
Net subsidized family premium	\$6631 (\$3488)	\$6715 (\$3519)
Percent subsidy	16.2% (24.4%)	16.1% (24.3%)

	2012	2013	2014	2015
Overall				
Uninsured	17.5%	17.3%	14.0%	11.4%
Medicaid	18.3%	18.5%	20.0%	21.6%
Employer sponsored insurance	58.4%	58.1%	58.7%	59.1%
Non-group private	8.9%	8.6%	9.7%	10.7%
Single adults				
Uninsured	31.2%	30.3%	24.6%	20.0%
Medicaid	13.4%	13.7%	16.3%	18.7%
Employer sponsored insurance	47.5%	47.8%	49.1%	50.3%
Non-group private	8.7%	8.6%	10.4%	11.8%
Adult couples				
Uninsured	11.7%	11.8%	9.0%	7.1%
Medicaid	3.7%	3.9%	5.0%	5.8%
Employer sponsored insurance	75.1%	74.6%	74.6%	74.8%
Non-group private	11.5%	11.4%	12.9%	13.8%
Families with children				
Uninsured	12.6%	12.5%	10.2%	8.3%
Medicaid	24.3%	24.6%	25.8%	27.1%
Employer sponsored insurance	59.1%	58.7%	59.1%	59.3%
Non-group private	8.3%	7.8%	8.6%	9.3%

	Reduced form coefficient	Population mean (simulated measure)	Implied percentage point change	Share of total ACA-related change
	(1)	(2)	(3)	(4)
2014 effects				
Family percent subsidy × 2014	-0.051	0.162	-0.83%	41%
Family mandate penalty × 2014 (in \$100s)	0.0004	4.58	0.18%	N/A
Previously Medicaid-eligible × 2014	-0.026	0.230	-0.60%	29%
Early expansion Medicaid-eligible × 2014	-0.107	0.020	-0.21%	10%
Newly Medicaid-eligible × 2014	-0.089	0.045	-0.40%	20%
2015 effects				
Family percent subsidy × 2015	-0.089	0.161	-1.43%	40%
Family mandate penalty × 2015 (in \$100s)	0.0003	9.56	0.29%	N/A
Previously Medicaid-eligible × 2015	-0.046	0.227	-1.04%	29%
Early expansion Medicaid-eligible × 2015	-0.197	0.019	-0.37%	10%
Newly Medicaid-eligible × 2015	-0.137	0.055	-0.75%	21%
Jinit (HIII) and use ACS survey weights, excluding this with children; insumer in the I am a many third children; insumer in the I am a many law and state fixed effect an employment rates; and year and state fixed effec	amily: number of children:	educational attainment, age, and r		

	Reduced form coefficient (1)	Share of total ACA-related change (4)
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Previously Medicaid-eligible × 2014	-0.026	29%
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Subsidies in the exchange mar Medicaid expansions are 31%	kets are 40%	