

# Historical Cigarette Prohibition, Tobacco Use, and Mortality

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# Disclosures

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- I have not received any tobacco-related research funding over the last 10 years.

July 5, 1930

Liberty

20,679\* Physicians

say "LUCKIES are  
*less irritating*"

"It's toasted"  
Your Throat Protection  
against irritation against cough

\* The figures quoted have been checked and certified to by LYBRAND, ROSS BROS. AND MONTGOMERY, Accountants and Auditors.

THE CENTER FOR  
THE STUDY OF  
TOBACCO AND SOCIETY

# Cigarettes in the Early 20th Century

- The harmful effects of cigarette-smoking are widely known today, due largely to the 1964 Surgeon General's Report
- In the early 20th century however:
  - Mass-produced cigarettes were a new product, and less was understood about how smoking affected health
  - Life expectancy was much lower (47 vs. almost 79 today)
  - Infectious diseases posed more immediate health threats
- Likely leading to differences in behavior and health outcomes:
  - Mickey Mantle Effect: Shorter life expectancy reduced incentives to avoid long-term risks
  - Long-term health consequences may not have had time to manifest
  - Smoking rates were less correlated with education compared to today

## Early Cigarette Regulation

- As cigarettes gained popularity in the early 1900s, opposition also grew
- Anti-cigarette movement in the 1890s–1920s pushed for legislation, leading to outright bans implemented in 14 states between 1892–1921, all were repealed by 1927

# Early Cigarette Regulation

- As cigarettes gained popularity in the early 1900s, opposition also grew
- Anti-cigarette movement in the 1890s–1920s pushed for legislation, leading to outright bans implemented in 14 states between 1892–1921, all were repealed by 1927
- This paper studies the effects of these early bans on cigarette use and mortality, exploiting variation from:
  - (i) Staggered repeals of the cigarette bans
  - (ii) Pseudo-repeals from veterans' exposure to cigarettes during WWI

# Outline

1. Background
2. Literature Review
3. Data
4. Repeal of Cigarette Bans on Cigarette Use
5. Pseudo-Repeal from Enlistment in WWI on Cigarette Use
6. Pseudo-Repeal from Enlistment in WWI on Later-life Mortality
7. Robustness
8. Discussion

# Cigarette Industry

- A combination of technological change and shifting consumer behavior drove rapid rise in cigarette production and consumption Tobacco Industry
  - Mechanization reduced cost and increased production capacity
  - Low price and ease of access made cigarettes particularly appealing to young men



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  - Mechanization reduced cost and increased production capacity
  - Low price and ease of access made cigarettes particularly appealing to young men
- Smokeless tobacco and cigars were still the main forms of tobacco consumed in the U.S.
  - Cigarettes accounted for just 2.2% of total tobacco consumed in 1900 and 12.6% by 1916
  - Still, by the first decade of the 20th century, cigarette smoking had become common and socially accepted, particularly among men in urban areas [Segrave (2005)]
  - By 1917, 30% of young men had initiated smoking by age 19 Cigarette Use



# Political Economy and Development of Cigarette Bans

*"If you will study the history of almost any criminal you will find that he is an inveterate cigarette smoker. . . . The cigarette drags them down."*

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- Anti-cigarette movement was part of broader Progressive Era reforms [Tate, 1999; Alston, Dupré, and Nonnenmacher, 2002]
  - Primarily motivated by moral opposition rather than health concerns
  - Progressive states were more likely to have brought cigarette prohibition bills to the floor [Alston, Dupré, and Nonnenmacher, 2002]

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  - Primarily motivated by moral opposition rather than health concerns
  - Progressive states were more likely to have brought cigarette prohibition bills to the floor [Alston, Dupré, and Nonnenmacher, 2002]
- Growing cigarette industry fought against legislation
  - American Tobacco challenged statutes, lobbied, and bribed legislators [Tate, 1999]
  - Likelihood of a bill passing declined with a state's cigarette production [Alston, Dupré, and Nonnenmacher, 2002]

# WWI and the Expansion of Cigarette Access

*"You ask me what we need to win this war. I answer tobacco, as much as bullets."*

– General John J. Pershing



# WWI and the Expansion of Cigarette Access

- World War I marked a turning point for the cigarette industry
- Cigarettes were tolerated as a “necessary evil” while the military sought to ban more disruptive vices like alcohol and prostitution
- Cigarettes were made widely available to soldiers, the government sent 5.5 billion cigarettes overseas during the war
- Broader public support, with many donating to “smoke funds” to send cigarettes to troops overseas

# Cigarettes in Newspapers

- Before turning to cigarette use and health outcomes, we first examine whether repeal of the laws affected public visibility and commercial presence of cigarettes
- If repeals truly relaxed constraints on access, we should observe increases in newspaper coverage and brand advertising



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- If repeals truly relaxed constraints on access, we should observe increases in newspaper coverage and brand advertising
- We collect historical newspaper data from the Chronicling America collection, and perform keyword searches for
  - (i) All cigarette mentions
  - (ii) Cigarette mentions excluding legal/policy terms
  - (iii) Direct brand mentions

# Cigarettes in Advertisements

Table: Effect of Repeals on Mentions of Cigarettes in Newspapers

	(1) Cigarettes	(2) Cigarettes excl. Legal	(3) Cigarette Ads
Estimator: CSDID	5.300** (2.064)	2.660* (1.419)	0.424** (0.212)
Ban state mean in period -1	14.34	7.74	0.16
Observations	866	866	866

Notes: Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

- Newspaper mentions of cigarettes increased by over 30% after repeals
- Mentions of cigarette brand names increased almost three-fold, suggesting increased market presence and commercial activity
- Heightened visibility provides a pathway through which legal access to cigarettes could influence behavior

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## Related Literature

- **Effect of tobacco control policies** [Evans and Ringel 1999; Farrally et al. 2004; Gruber and Koszegi 2004; Lien and Evans 2005; O'Donoghue and Rabin 2006; DeCicca and McLeod 2008; Nesson 2017; Friedson and Rees 2020; Hoehn-Velasco, Pesko, and Phillips 2023]
- **Progressive Era policies** [Tate, 1999; Gottsegen 1940; Brandt 2007; Alston, Dupré, and Nonnenmacher 2001; Appollonio and Glantz 2016, Miron and Zwiebel 1991; Jacks, Pendakur, and Shigeoka 2021, 2023; Jacket et al. 2024]
- **Military service and cigarette use** [Bedard and Deschênes 2006; Deza and Mezza 2025]
- **Modern tobacco policy debates: “Tobacco-free generation” proposals in the UK and New Zealand**

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- **Tobacco Use:** U.S. Veterans Mortality Study (Dorn Study)
  - Conducted in 1954, covers men who served in the armed forces between 1917–1940  
[Sample Cohorts](#)
  - Includes state of residence, year of birth, and tobacco use histories [Details](#)
  - Construct repeated cross-section for cigarette initiation by ages 19, 24, or ever

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- **Mortality:** Population counts from Census 1890–1930
  - Survival profiles at the state-cohort-sex-level:

$$Survival_{asyf} = \frac{Population_{asyf}}{Population_{19,syf}}$$

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- **Tobacco Production:** Annual Reports of the Commissioner of Internal Revenue (1890–1936)
- **Alcohol Prohibition:** State-level dry status [Sechrist, 2012; Jacks, Pendakur, and Shigeoka, 2021]



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## Empirical Method: Repeal on Cigarette Use

We estimate the staggered difference-in-differences regression below using methods proposed by Callaway and Sant'Anna (2021):

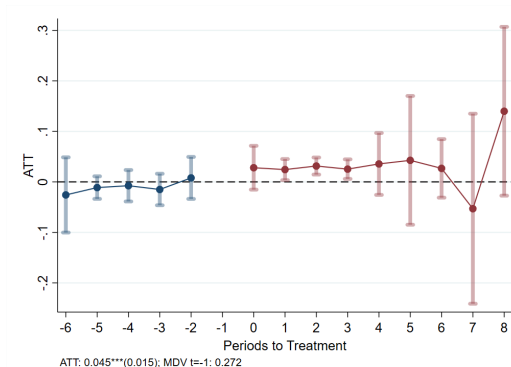
$$Y_{isy} = \beta \text{Repeal}k_{sy} + \lambda X_{sy} + \delta_s + \delta_y + \varepsilon_{isy},$$

- $Y_{isy}$ : Indicator for smoking initiation by age  $k$
- $\text{Post}k_{sy}$ : Indicator for individual  $i$  being age  $k$  or younger at time of repeal
- $X_{sy}$ : Control for teen exposure to alcohol prohibition
- Regressions are unweighted, and standard errors are clustered at the state level
- Focus on repeals (and not enactments) due to limited data for pre-enactment cohorts

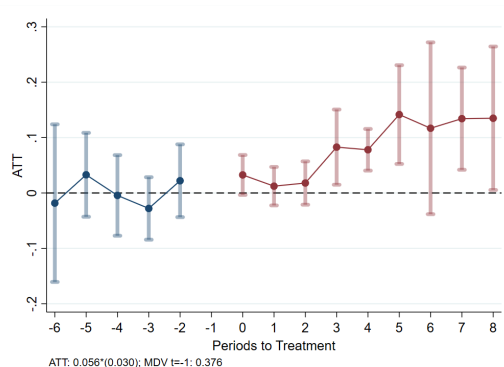
# Cigarette Use Increased Following Repeals

- Turning 19 after a repeal increased smoking by age 19 by 14.5%
- Turning 24 after a repeal increased smoking by age 24 by 13.5%

(a) Repeal by 19

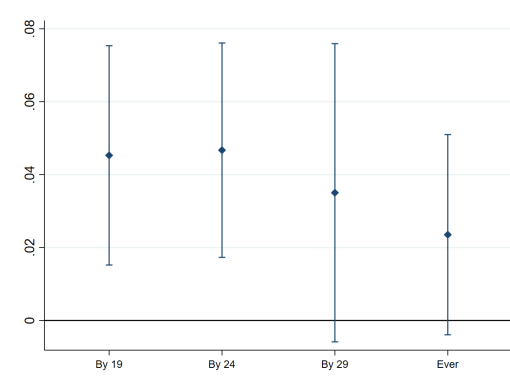


(b) Repeal by 24

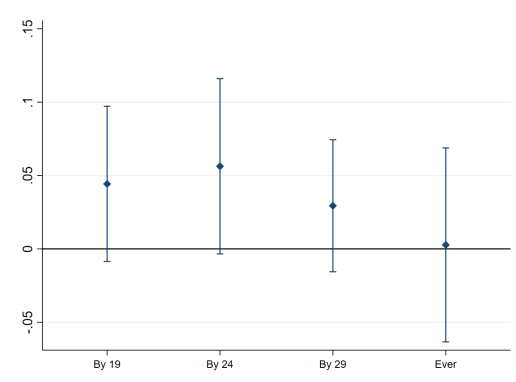


# Earlier Initiation but No Increase in Lifetime Use

(a) Repeal by 19



(b) Repeal by 24



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## Empirical Method: Pseudo-Repeal on Cigarette Use

We estimate with TWFE whether respondents from states with active bans in 1917 were more likely to have started using cigarettes in 1917:

$$Started1519_{isy} = \alpha_{1,1}Age1719_{isy} \times Ban1917_s + \lambda X_{sy} + \delta_s + \delta_y + \varepsilon_{isy};$$

$$Started2024_{isy} = \alpha_{2,1}Age1719_{isy} \times Ban1917_s \\ + \alpha_{2,2}Age2024_{isy} \times Ban1917_s + \lambda X_{sy} + \delta_s + \delta_y + \varepsilon_{isy};$$

$$Started2529_{isy} = \alpha_{3,1}Age1719_{isy} \times Ban1917_s \\ + \alpha_{3,2}Age2024_{isy} \times Ban1917_s \\ + \alpha_{3,3}Age2529_{isy} \times Ban1917_s + \lambda X_{sy} + \delta_s + \delta_y + \varepsilon_{isy},$$

- $Startedk_{isy}$ : Indicator for cigarette initiation at ages 15–19, 20–24, or 25–29
- $Agek_{isy}$ : Indicator for being ages  $k$  in 1917
- $Ban1917_s$ : Cigarette ban active in state  $s$  in 1917
- $X_{sy}$ : controls for teenage exposure to alcohol prohibition
- Sample: Men ages 17–45 in 1917 (likely to have served in WWI)

## Pseudo-Repeals Increased Initiation into Smoking

- Veterans from states with cigarette bans in place in 1917 were more likely to have started smoking cigarettes upon enlisting
- Those ages 17–19 in 1917 were 3.3pp (16.9%) more likely to have started smoking cigarettes between ages 15 to 19, and those ages 20–24 and 25–29 were 19.3% and 40.2% more likely to have started smoking at those ages

VARIABLES	(1) Started 15-19	(2) Started 20-24	(3) Started 25-29
Ages 17-19 in 1917 x Ban State 1917	0.0333** (0.0135)	0.00130 (0.0125)	0.00757 (0.00760)
Ages 20-24 in 1917 x Ban State 1917		0.0270*** (0.00819)	0.0112 (0.00767)
Ages 25-29 in 1917 x Ban State 1917			0.0189*** (0.00673)
Observations	170,204	170,204	170,204
Ban State Pre-WWI Mean	0.197	0.140	0.0470

Notes: Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

# Comparing Effects of Repeals to Pseudo-Repeals

- “Pseudo-repeals” from WWI enlistment had comparable but larger effects than state repeals
- State repeals often occurred when cigarette use and distribution were still developing
  - Military service presented an abrupt transition from prohibition to full access: cigarettes were rationed, sold cheaply, and actively promoted
  - Stress of wartime environment likely amplified initiation among men with little exposure at home



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## Empirical Method: Pseudo-Repeal on Later-life Mortality

We compare survival rates between men who were just old enough to enlist in 1917 (ages 17+) to those who were just too young, in states with and without active bans in 1917:

$$\text{Survival}_{asyf} = \beta \text{Eligible}_y \times \text{Ban } 1917_s + \delta_a + \delta_s + \delta_y + \delta_{r(s)a} + \varepsilon_{asyf},$$

- $\text{Survival}_{asyf}$ : Survival rate at age  $a$  for those born in state  $s$  in year  $y$  of sex  $f$
- $\text{Eligible}_y$ : Indicator for cohort  $y$  being ages 17+ in 1917 and hence eligible to enlist in WWI
- Sample: Men ages 7–27 in 1917
- Regressions are weighted by cohort population at age 19, standard errors are clustered at the state level

# Reduced Survival for Those Enlisting from States with Active Bans

- Cohorts of men from states with bans in 1917 who were eligible to enlist in WWI had 3.14pp lower survival at ages 25–64
- Effects manifest early in life, and we find no statistically significant difference in survival rates by ages 55–64

VARIABLES	(1) Ages 25-64	(2) Ages 25-34	(3) Ages 35-44	(4) Ages 45-54	(5) Ages 55-64
<i>Panel A: Male</i>					
Age 17+ in 1917 × Ban State 1917	-0.0314** (0.0123)	-0.0282*** (0.00937)	-0.0413*** (0.0142)	-0.0344* (0.0174)	-0.0217 (0.0151)
Observations	37,577	9,392	9,390	9,399	9,396

Notes: Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

# No Corresponding Reductions Among Women

- Cohorts of men from states with bans in 1917 who were eligible to enlist in WWI had 3.14pp lower survival at ages 25–64
- Effects manifest early in life, and we find no statistically significant difference in survival rates by ages 55–64

VARIABLES	(1) Ages 25-64	(2) Ages 25-34	(3) Ages 35-44	(4) Ages 45-54	(5) Ages 55-64
<i>Panel A: Male</i>					
Age 17+ in 1917 × Ban State 1917	-0.0314** (0.0123)	-0.0282*** (0.00937)	-0.0413*** (0.0142)	-0.0344* (0.0174)	-0.0217 (0.0151)
Observations	37,577	9,392	9,390	9,399	9,396
<i>Panel B: Female</i>					
Age 17+ in 1917 × Ban State 1917	0.0108 (0.0127)	0.00112 (0.0147)	0.0210 (0.0155)	0.00881 (0.0126)	0.0121 (0.0127)
Observations	37,407	9,368	9,356	9,339	9,344

Notes: Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

# Quantifying Mortality Effects

- A 3.14 percentage point reduction in the survival rate corresponds to a 4.72% increase in mortality
  - Implies 0.07pp higher annual mortality
  - Based on average annual mortality rate of 1.5% in 1900
- Comparable to other quasi-experimental evidence
  - \$1 increase in cigarette taxes at ages 14–17 reduces adult mortality by 4% [Friedson et al. (2023)]
  - Being born in wet states during prohibition increases later-life mortality by 3.3% [Jacks et al. (2024)]

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# Robustness Checks

- Measurement Error and Selective Migration [Details](#)
- Repeal on cigarette use
  - Alternative samples/specifications [Details](#)
  - Leave-one-out [Details](#)
- Pseudo-repeal on cigarette use
  - Alternative samples/specifications [Details](#)

# Outline

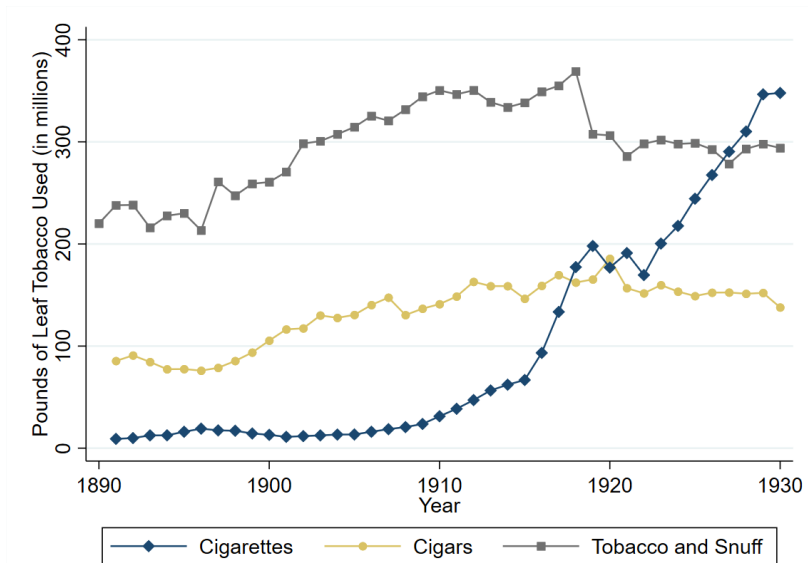
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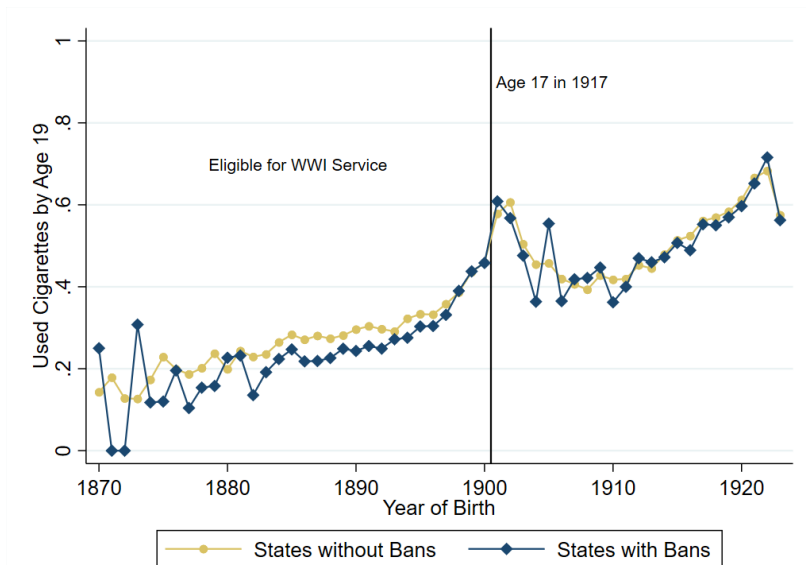
# Discussion

- Repeal of early cigarette bans had real behavioral and health effects
  - Repeals and pseudo-repeals increased cigarette use by over 14%
  - 4.72% increase in later-life mortality
- Even though short-lived and imperfectly enforced, bans altered behavior and influence health
- Legal restrictions on harmful products can be effective even when individuals underappreciate long-term risks
- Contemporary proposals to restrict access have similar potential for lasting effects

# Tobacco Industry in the Early 20th Century



# Dorn Study: Cigarette Use by Age 19

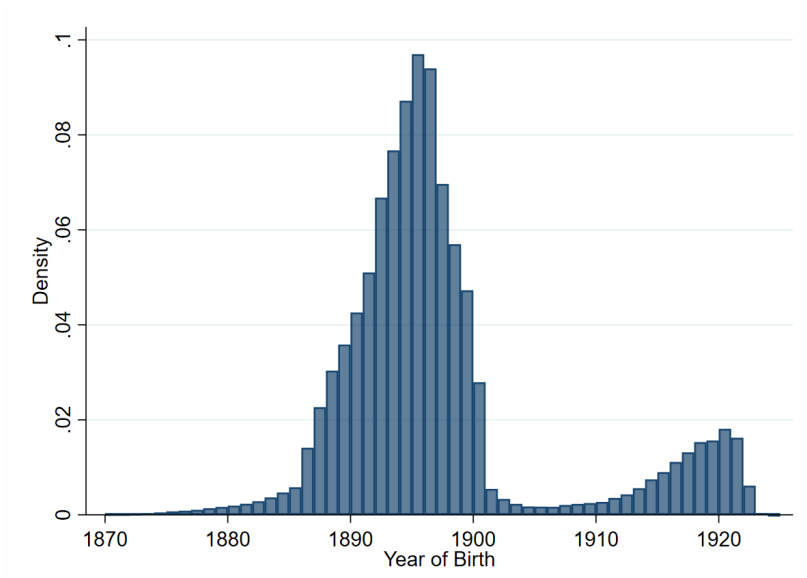


# Cigarettes in Newspapers

- While we have 1,300 titles between 1886-1935, we do not observe each title for the entire period
  - The mean number of years we observe a title is 9.7
  - Around 50% of titles we only observe for 5 years or fewer
- To construct a measure of keyword mentions for each state-year that is independent of compositional changes, we
  1. Count whether each keyword is present in each issue (title-date)
  2. Compute the number of times per 100 issues for which each keyword is present at the title-year level
  3. Regress this measure on year and title FEs, and subtract the title FEs to obtain a demeaned measure of mentions at the title-year level
  4. Compute the average de-meaned fraction of mentions at the state-year level

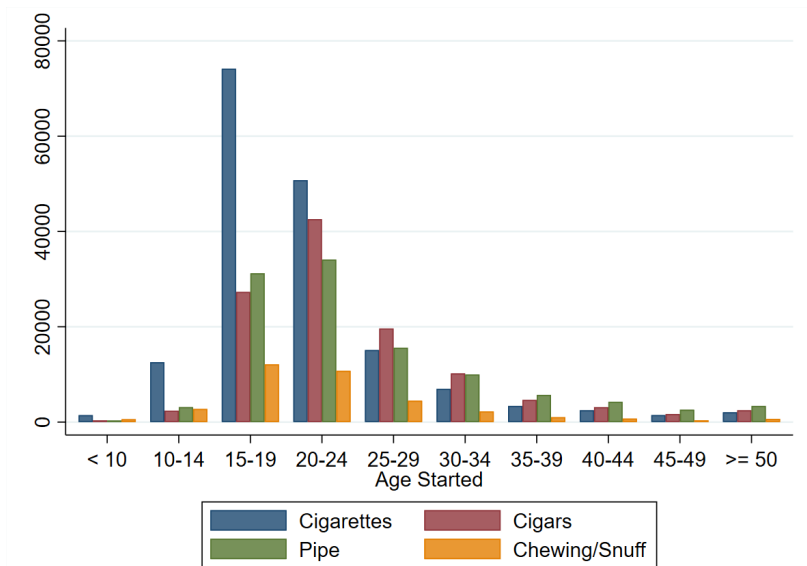
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# Dorn Study: Sample Cohorts



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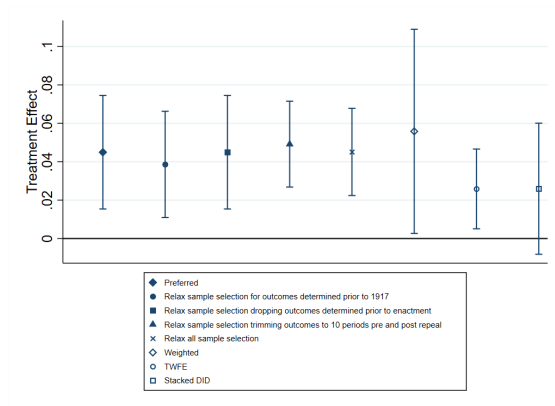
# Dorn Study: Tobacco Use



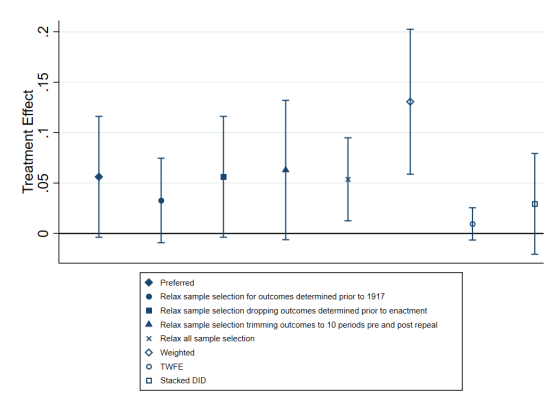
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# Robustness to Alternative Samples/Specifications

(a) Repeal by 19



(b) Repeal by 24



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Robustness

# Robustness to Alternative Samples/Specifications

	(1)	(2)	(3)	(4)
Ages 17-19 in 1917 x Ban in 1917	0.0437** (0.019)	0.0469*** (0.017)	0.0315** (0.012)	0.0199 (0.012)
N	170,204	170,204	170,204	36,412
Ban State Pre-WWI Mean	0.23	0.23	0.23	0.23
Ages 20-24 in 1917 x Ban in 1917	0.0293*** (0.010)	0.0300*** (0.010)	0.0232*** (0.008)	0.0131 (0.010)
N	170,204	170,204	170,204	36,412
Ban State Pre-WWI Mean	0.16	0.16	0.16	0.16
Ages 25-29 in 1917 x Ban in 1917	0.0216*** (0.006)	0.0215*** (0.006)	0.0224*** (0.007)	0.00341 (0.010)
N	170,204	170,204	170,204	36,412
Ban State Pre-WWI Mean	0.03	0.03	0.03	0.03
State & YOB FE	Yes	Yes	Yes	Yes
Controls	No	Yes	Yes	Yes
Region-by-YOB FE	No	No	Yes	Yes
Sample	All states	All states	All states	Ever-treated states

Notes: Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .



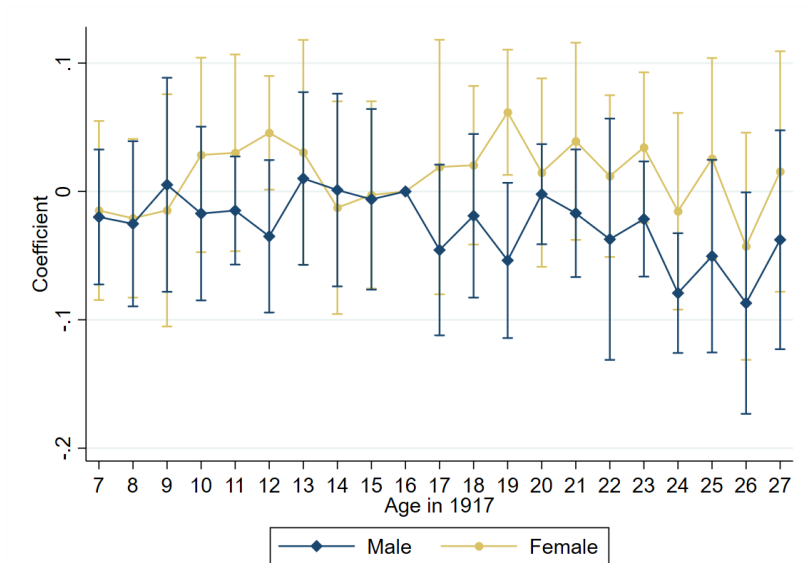
## Suggestive Increases in Lifetime Use and Intensity of Use

VARIABLES	(1) Started Ever	(2) Max 10 per day	(3) Max 20 per day
Ages 17–19 in 1917 $\times$ Ban State 1917	0.0197 (0.0215)	0.0241 (0.0287)	0.0147 (0.0180)
Ages 20–24 in 1917 $\times$ Ban State 1917	0.00710 (0.0211)	0.0105 (0.0236)	0.00123 (0.0164)
Ages 25–29 in 1917 $\times$ Ban State 1917	0.0135 (0.0152)	0.0114 (0.0214)	0.00547 (0.0159)
Observations	170,204	153,553	153,553
Ban State Pre-WWI Mean	0.585	0.354	0.0920

Notes: Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

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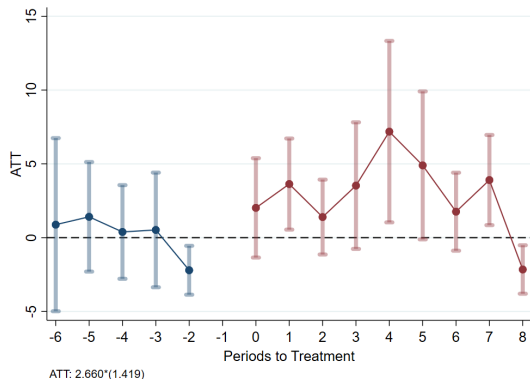
## Event studies



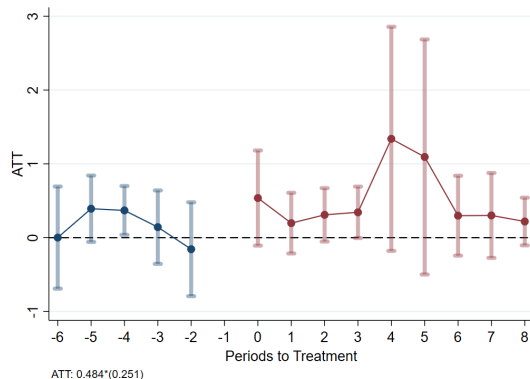
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# Event studies for repeals with Callaway-Sant'Anna DID

(a) Cigarettes—



(b) Cigarette Ads



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# Measurement Error and Selective Migration

- Since we observe state of residence at survey, exposure to treatment may be mismeasured if individuals migrated
  - Under classical measurement error, our estimates will be biased towards zero
  - However we may have non-classical measurement error if migration is correlated with ban status or smoking propensity
- Test for selective migration using Census data
  - About 65% of men live in their state of birth
  - Estimate CSDID with migration as the outcome
- No evidence of selective migration
  - No differential in-migration rates by treatment status
  - No differential in-migration rates from states without bans by treatment status

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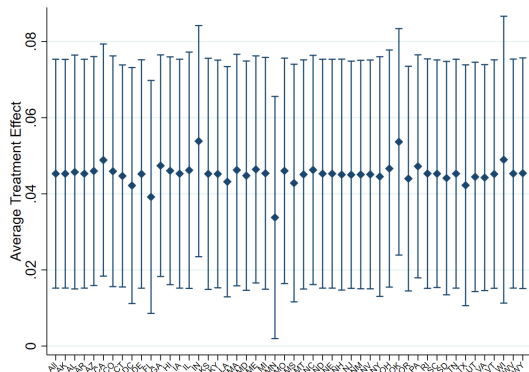
# Measurement Error and Selective Migration

	(1)	(2)
VARIABLES	Migrated	Migrated from non-ban state
<i>Panel A: Repeal by Age 19</i>		
Repeal	-0.0176 (0.0162)	-0.0179 (0.0156)
Observations	477,496	477,496
<i>Panel A: Repeal by Age 24</i>		
Repeal	-0.0256 (0.0221)	-0.0309 (0.0231)
Observations	321,054	321,054

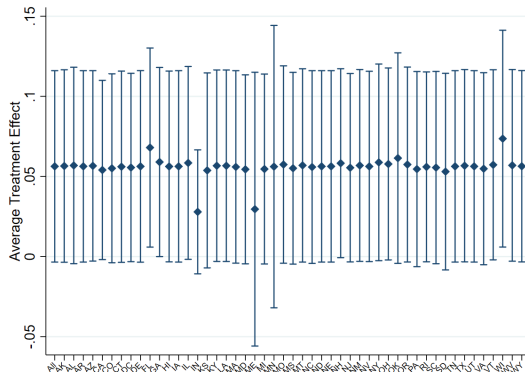
*Notes:* Table reports ATEs from estimating Equation 15 using Callaway-Sant'Anna difference-in-differences. The outcome variables are indicator variables for an individual being born in a different place than his state of residence, and an individual being born in a different place than his state of residence and his state of birth not having had a cigarette ban. Regressions control for state-level alcohol prohibition. The estimation sample includes men born in the U.S. between 1873–1911. Standard errors clustered at the state level. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

# Leave-One-Out

(a) Repeal by 19



(b) Repeal by 24



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