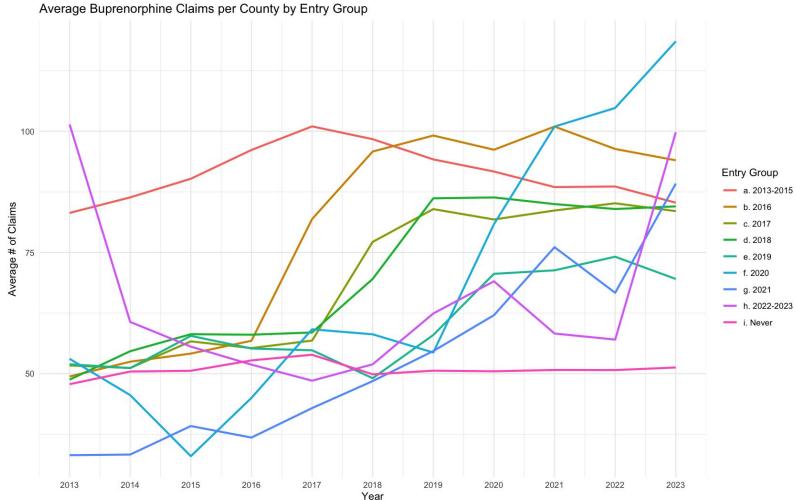
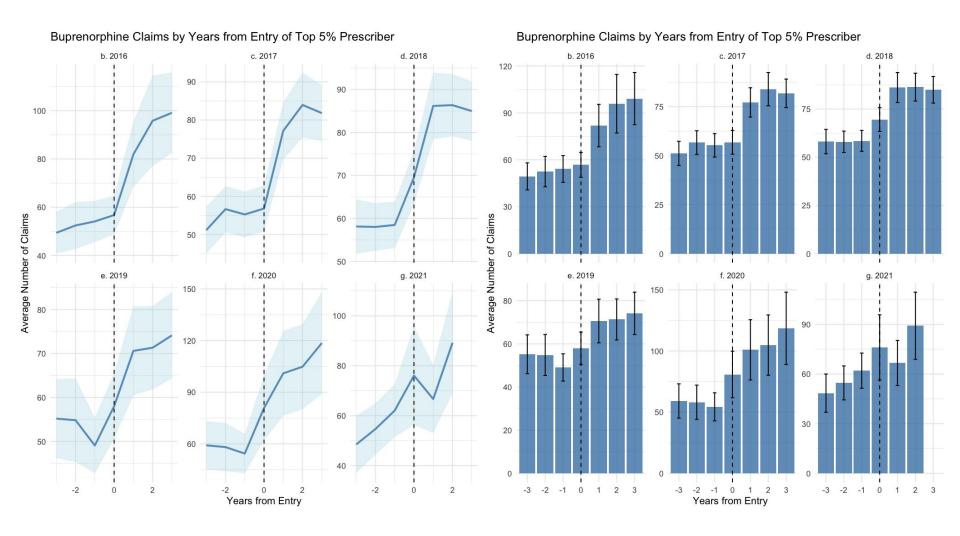
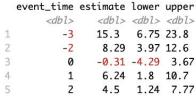
Buprenorphine Claims

(Medicare Part D drug-level files)

> print(entry_group_counts) # A tibble: 9 x 2 entry_group N_counties <chr> <int> 1 a. 2013-2015 535 2 b. 2016 43 3 c. 2017 59 4 d. 2018 100 5 e. 2019 35 6 f. 2020 24 7 g. 2021 14 100 8 h. 2022-2023 5 9 i. Never **1**559



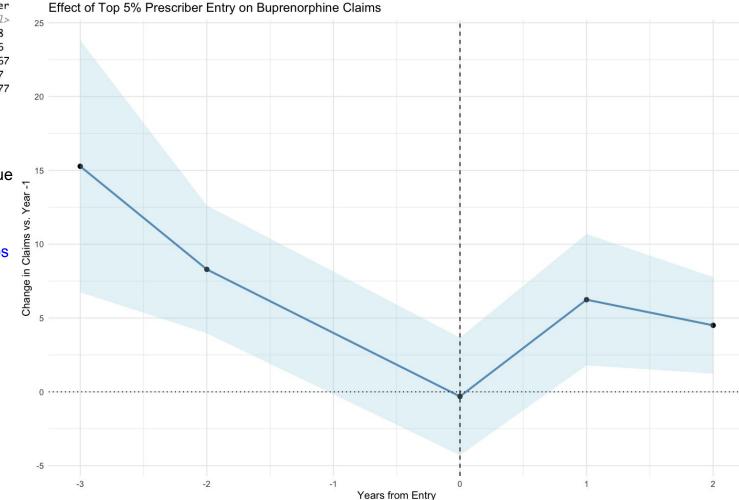




Average treatment effect (ATE) from years 0 to +2: 3.48 (95% CI, -0.42 to 7.37). Year +3 dropped due to collinearity

feols(Tot_Clms ~ i(event_time, ref = -1) | fips + year, data = df)

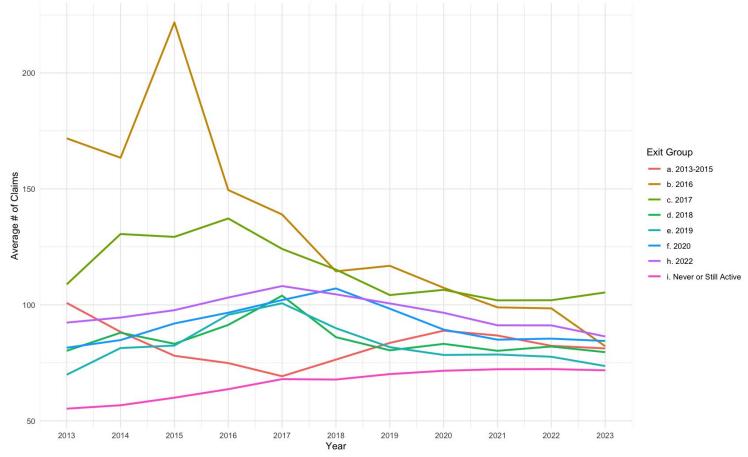
- Fixed-effects OLS estimation regression
- Annual buprenorphine claims (relative to year -1)
- Two-way fixed effects by county "fips" and "year"

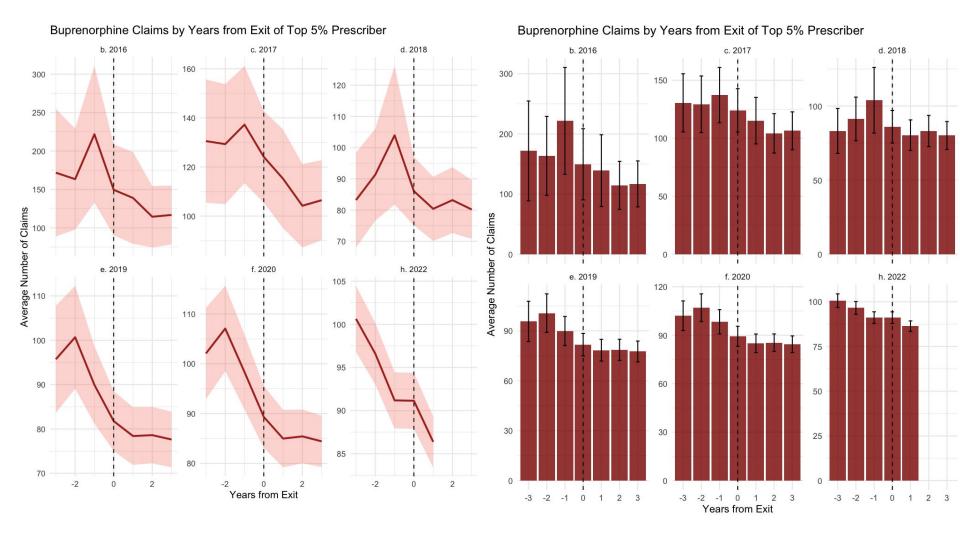


> print(exit_group_counts) # A tibble: 8 x 2

A tibble: 8 x Z	
exit_group	N_counties
<chr></chr>	<int></int>
a. 2013-2015	10
b. 2016	7
c. 2017	36
d. 2018	21
e. 2019	38
f. 2020	73
h. 2022	146
i. Never or Still Ac	tive <u>2</u> 043
	exit_group <chr> a. 2013-2015 b. 2016 c. 2017 d. 2018 e. 2019 f. 2020 h. 2022</chr>



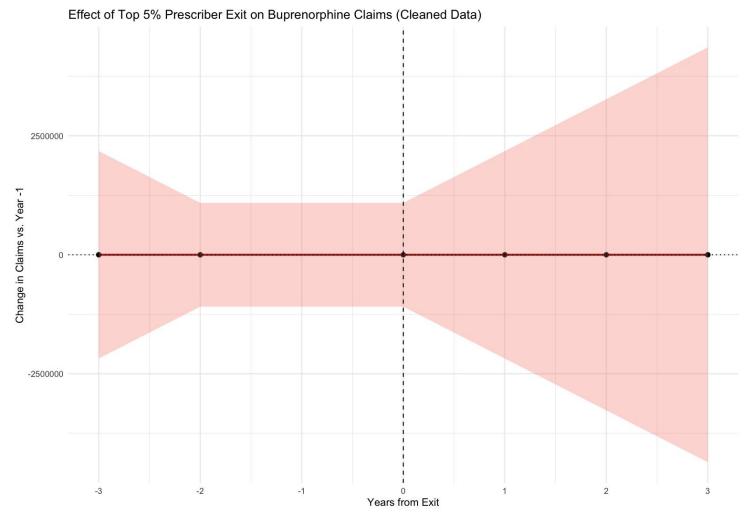






ATE -1.68 (95% CI, -2178951 to 2178948)

Unreliable?



**No prescriber exits in 2021

prescribers

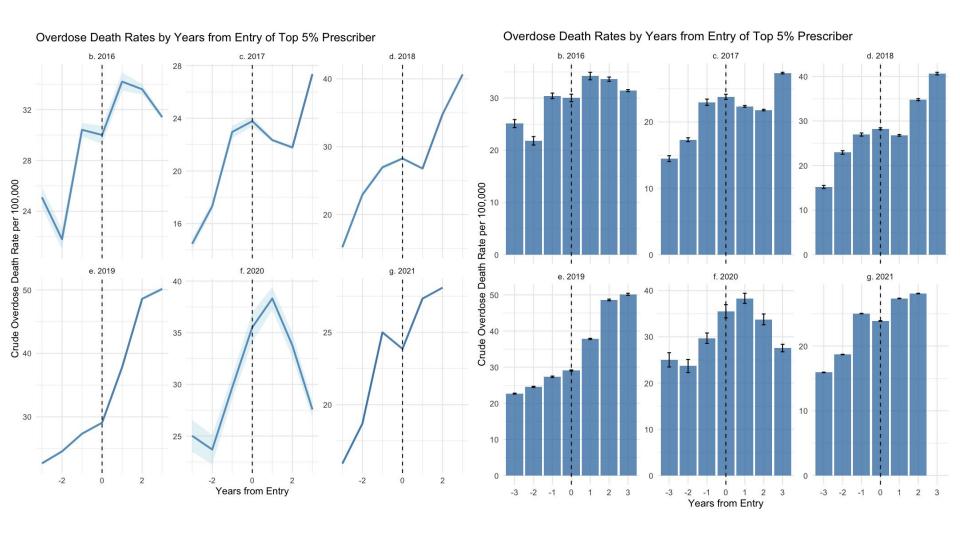
<pre>> df %>% + count(lastyear) %>% + arrange(lastyear) # A tibble: 10 x 2 lastyear</pre>	<pre>> df %>% + filter(top5_flag == 1) %>% + count(lastyear) %>% + arrange(lastyear) # A tibble: 10 x 2 lastyear n <dbl> <int></int></dbl></pre>	<pre>> exit_group_counts <- exit_years %>% + count(exit_group, name = "N_counties") %>% + arrange(exit_group) > > print(exit_group_counts) # A tibble: 8 x 2</pre>
1 2013 592 2 2014 1187 3 2015 1612 4 2016 2403 5 2017 6036 6 2018 5298 7 2019 7818 8 2020 11036 9 2022 21395 10 2023 134653	1 2013 5 2 2014 26 3 2015 37 4 2016 55 5 2017 294 6 2018 145 7 2019 213 8 2020 356 9 2022 474 10 2023 8012	exit_group
Number of all bup	Number of top 5%	Number of counties with exit of

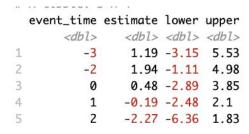
a top 5% bup prescriber

bup prescribers

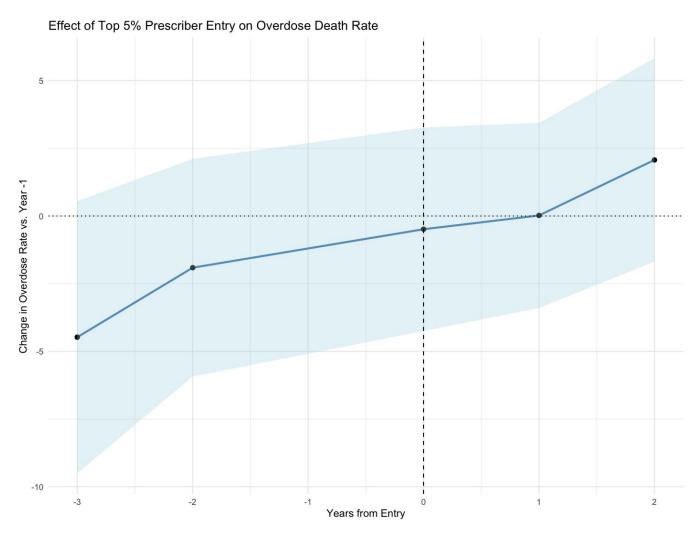
(CDC WONDER public access files)

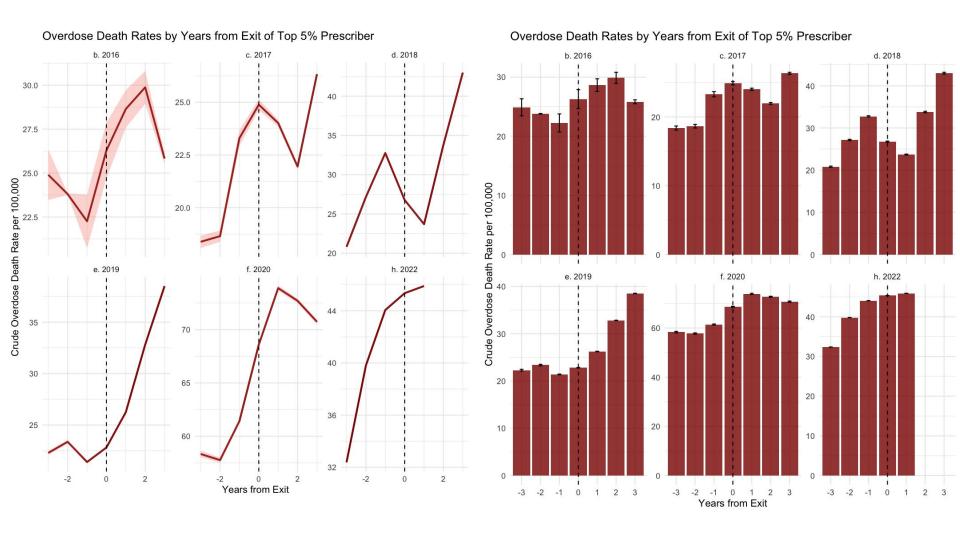
Crude overdose mortality rates per 100,000





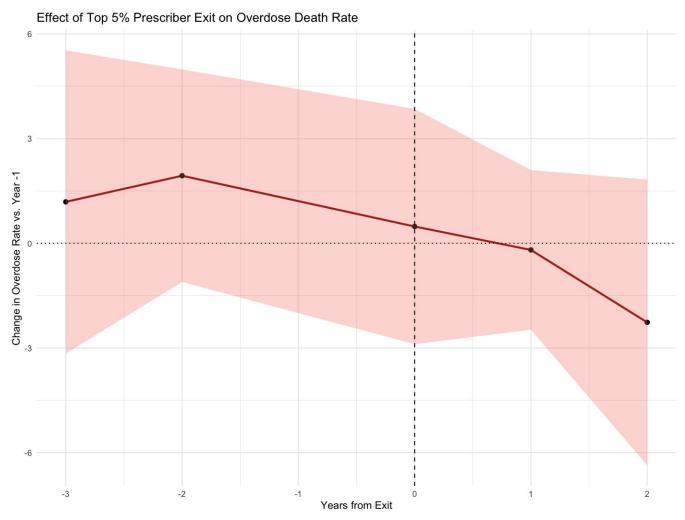
ATE: 0.53 (95% CI, -3.11 to 4.18)



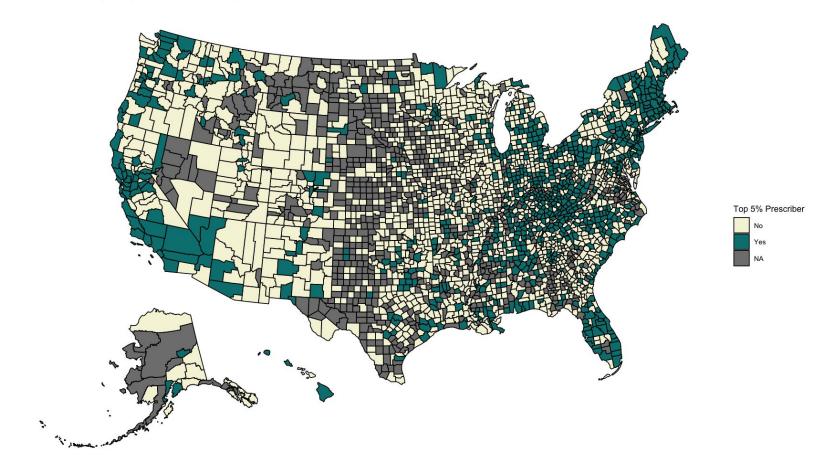


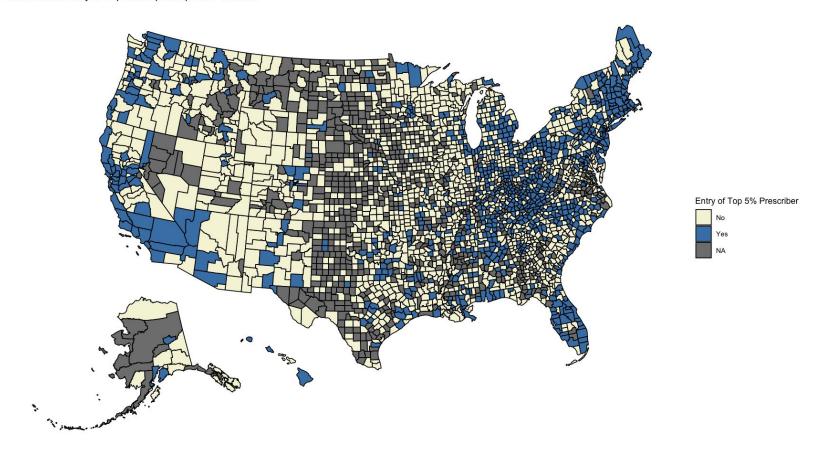


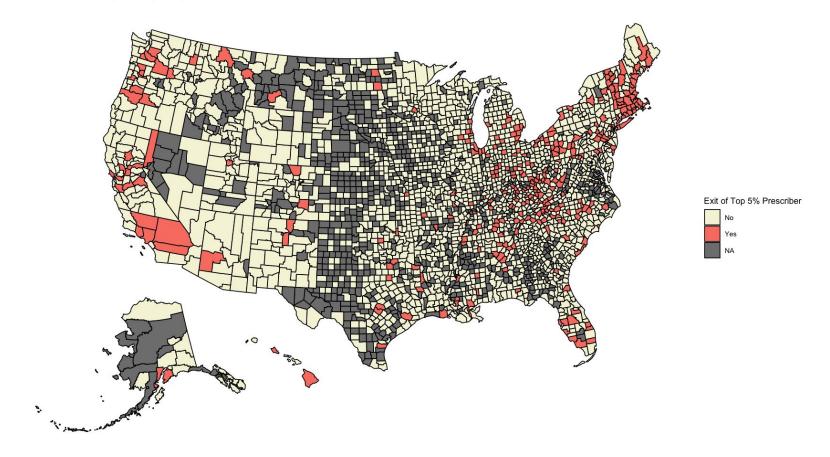
ATE: -0.66 (95% CI, -3.91 to 2.59)



County-level distribution of top 5% prescribers







2020 AHRQ county-level SDOH database

AHRQ:

- Sex
- Race
- **Ethnicity**
- Education
- Disability (y/n)
- **Employment**
- Public assistance
- Income (categorical, median, and mean)
- Insurance

CDC WONDER:

Drug overdose deaths (raw counts and crude rates per 100,000)

```
> glimpse(final_df)
Rows: 210,588
Columns: 50
$ Prscrbr_NPI
$ fips
$ year
$ Tot_Clms
$ top5_flaa
$ firstyear
$ lastyear
$ sex_male
$ sex_female
$ race_white
$ race_black
$ race_aian
$ race asian
$ race_nhpi
$ race other
$ ethnicity_hispanic
$ ethnicity_nonhispanic
$ educ_less_9th
$ educ_9_12_nodegree
$ educ_highschool
$ educ_some_college
$ educ_associates
$ educ_bachelors
$ educ_arad_prof
$ has_disability
$ employed
$ unemployed
$ unemployment_rate
$ retirement_income
$ social_security_income
$ public_assistance_income
$ food_stamps
$ income_lt_10k
$ income 10k 14k
$ income_15k_24k
$ income 25k 34k
$ income_35k_49k
$ income_50k_74k
$ income_75k_99k
$ income 100k 149k
```

\$ income 150k 199k

\$ income_200k_plus

\$ insurance_private

\$ `Drug overdose deaths`

\$ insurance_public

\$ insurance none

\$ median_income

\$ insurance_any

\$ mean_income

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$ `Crude drug overdose death rates per 100,000`
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