Homework 5

Research in Health Economics, Spring 2024 https://github.com/riadharnidharka/Econ470HW5

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1. Plot the share of the adult population with direct purchase health insurance over time.

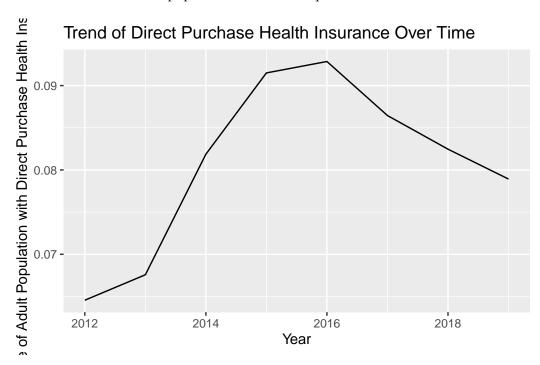


Figure 1: Population with Direct Purchase Health Insurance

2. Discuss the reduction in direct purchase health insurance in later years. Can you list a couple of policies that might have affected the success of the direct purchase insurance market?								

3. Plot the share of the adult population with Medicaid over time.

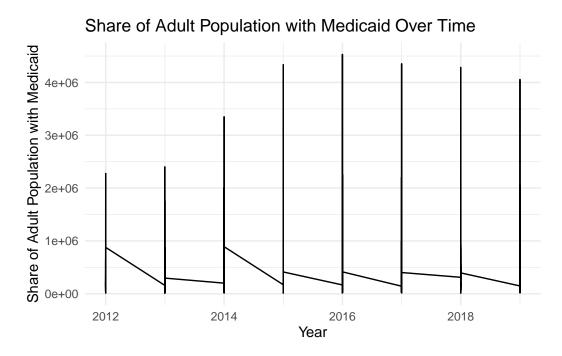


Figure 2: Population with Medicaid

4. Plot the share of uninsured over time, separately by states that expanded Medicaid in 2014 versus those that did not. Drop all states that expanded after 2014.

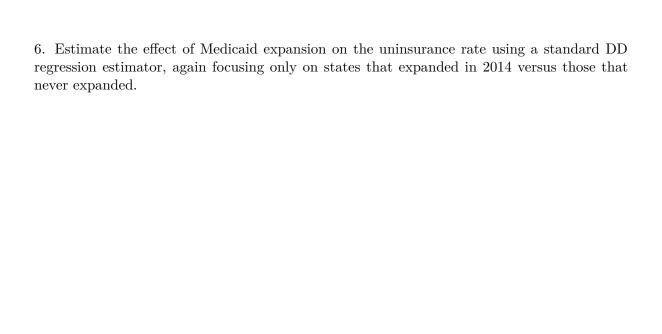
Share of Uninsured over Time 0.20 Non-expansion 0.00 Expansion 2012 2014 2016 Year

Figure 3: Uninsured Population

5. Calculate the average percent of uninsured individuals in 2012 and 2015, separately for expansion and non-expansion states. Present your results in a basic 2x2 DD table.

Table 1: Uninsured Individuals in 2012 and 2015

expand_ever	avg_diff_uninsured
FALSE	-0.0574455
TRUE	-0.0710971
0	-0.0181021



7.Include state and year fixed effects in your estimates. Try using the lfe or fixest package to estimate this instead of directly including the fixed effects.

8. Repeat the analysis in question 7 by 2014). Are your results different? If so,	ut include al why?	l states	(even	those	that	expanded	after
	9						

9. Provide an "event study" graph showing the effects of Medicaid expansion in each year. Use the specification that includes state and year fixed effects, limited to states that expanded in 2014 or never expanded.

\$prms

```
estimate
                       ci_low
                                   ci_high estimate_names
2012 -0.002549676 -0.00620864
                              0.001109289
2013 0.000000000 0.00000000
                               0.000000000
                                                     2013
2014 -0.014222032 -0.02323993 -0.005204130
                                                     2014
2015 -0.019066532 -0.03356407 -0.004568998
                                                     2015
2016 -0.019764584 -0.03595107 -0.003578099
                                                     2016
2017 -0.021979736 -0.03809985 -0.005859617
                                                     2017
2018 -0.023354738 -0.03889677 -0.007812704
                                                     2018
2019 -0.022310721 -0.03769216 -0.006929284
                                                     2019
         estimate_names_raw is_ref
                                      x id
                                                      У
2012 year::2012:expand_ever FALSE 2012
                                         1 -0.002549676
2013 year::2013:expand_ever
                              TRUE 2013
                                         1
                                            0.00000000
2014 year::2014:expand_ever
                            FALSE 2014
                                         1 -0.014222032
2015 year::2015:expand_ever
                            FALSE 2015
                                         1 -0.019066532
2016 year::2016:expand ever FALSE 2016
                                         1 -0.019764584
2017 year::2017:expand_ever FALSE 2017
                                         1 -0.021979736
2018 year::2018:expand ever FALSE 2018
                                         1 -0.023354738
2019 year::2019:expand_ever FALSE 2019
                                         1 -0.022310721
```

\$is_iplot

[1] TRUE

\$at

[1] 2012 2013 2014 2015 2016 2017 2018 2019

\$labels

[1] 2012 2013 2014 2015 2016 2017 2018 2019

10. Repeat part 9 but again include states that expanded after 2014. Note: this is tricky...you need to put all states onto "event time" to create this graph.

\$prms

```
ci_low
                                  ci_high estimate_names
        estimate
-3 0.0052773986 -0.009772221
                              0.020327018
-2 -0.0009035645 -0.004528807
                                                      -2
                              0.002721678
-1 0.000000000 0.000000000
                              0.000000000
                                                      -1
0 -0.0159056883 -0.022463288 -0.009348089
                                                       0
  -0.0233619575 -0.034416674 -0.012307241
                                                       1
2 -0.0252718493 -0.038131161 -0.012412537
                                                       2
3 -0.0262515983 -0.039220641 -0.013282555
                                                       3
4 -0.0246711317 -0.037870990 -0.011471273
                                                       4
5 -0.0235248081 -0.037858803 -0.009190813
                                                       5
             estimate_names_raw is_ref x id
                                                         у
-3 time_to_treat::-3:expand_ever FALSE -3 1
                                              0.0052773986
-2 time_to_treat::-2:expand_ever FALSE -2
                                           1 -0.0009035645
-1 time_to_treat::-1:expand_ever
                                  TRUE -1
                                             0.000000000
                                           1
   time_to_treat::0:expand_ever
                                 FALSE 0 1 -0.0159056883
   time to treat::1:expand ever
                                 FALSE
1
                                           1 -0.0233619575
                                        1
2
   time_to_treat::2:expand_ever
                                 FALSE
                                        2 1 -0.0252718493
   time_to_treat::3:expand_ever
                                 FALSE
                                        3
                                          1 -0.0262515983
   time_to_treat::4:expand_ever
4
                                 FALSE 4 1 -0.0246711317
    time_to_treat::5:expand_ever FALSE 5 1 -0.0235248081
$is_iplot
[1] TRUE
$at
[1] -3 -2 -1 0 1 2 3 4 5
$labels
```

[1] -3 -2 -1 0 1 2 3 4 5