

Homework 5 - Research in Health Economics

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1 Summarise the Data

1.1 Question 1

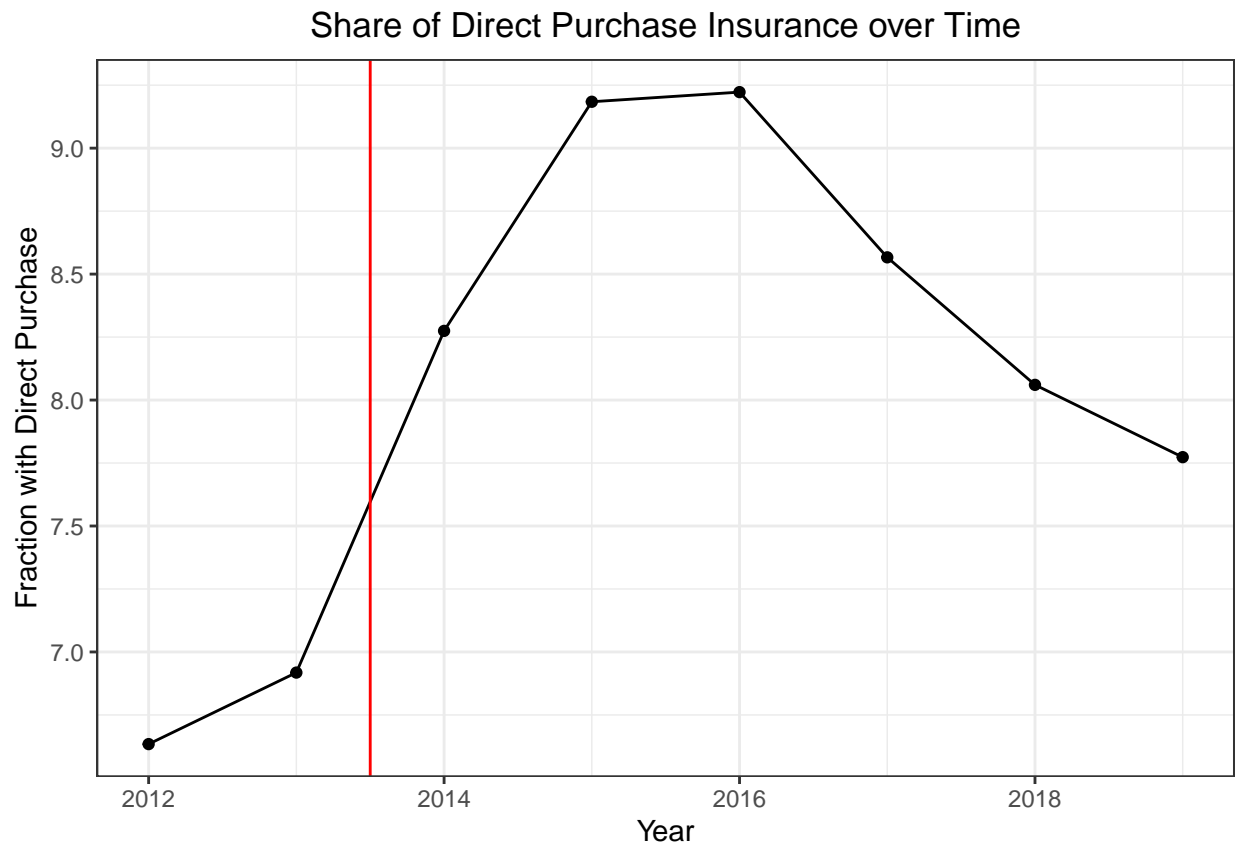


Figure 1: Share of Direct Purchase Insurance Over Time

1.2 Question 2

The graph in 1 shows the share of direct purchase insurance amongst the total insured population over time. Direct purchase insurance share peaked in 2015 before decreasing significantly.

1.3 Question 3

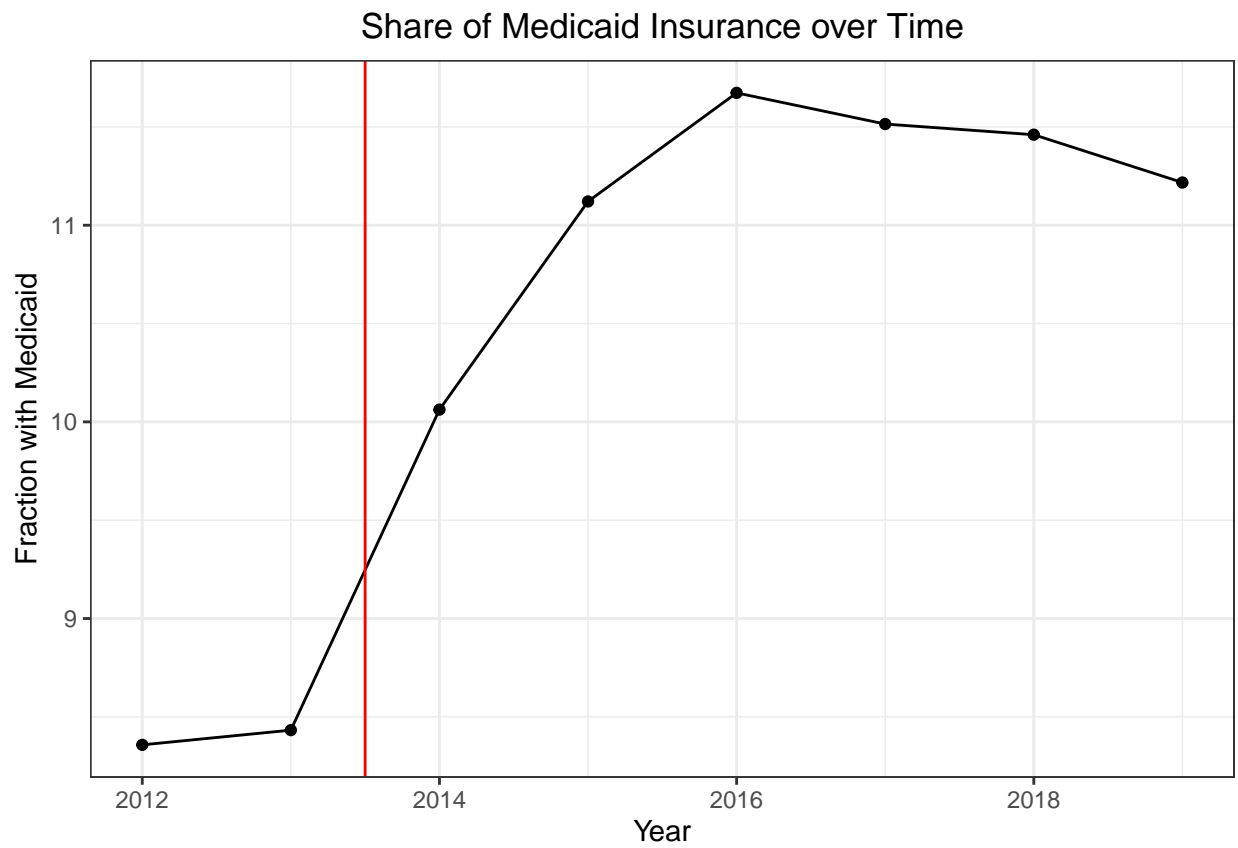


Figure 2: Share of Medicaid Insurance Over Time

1.4 Question 4

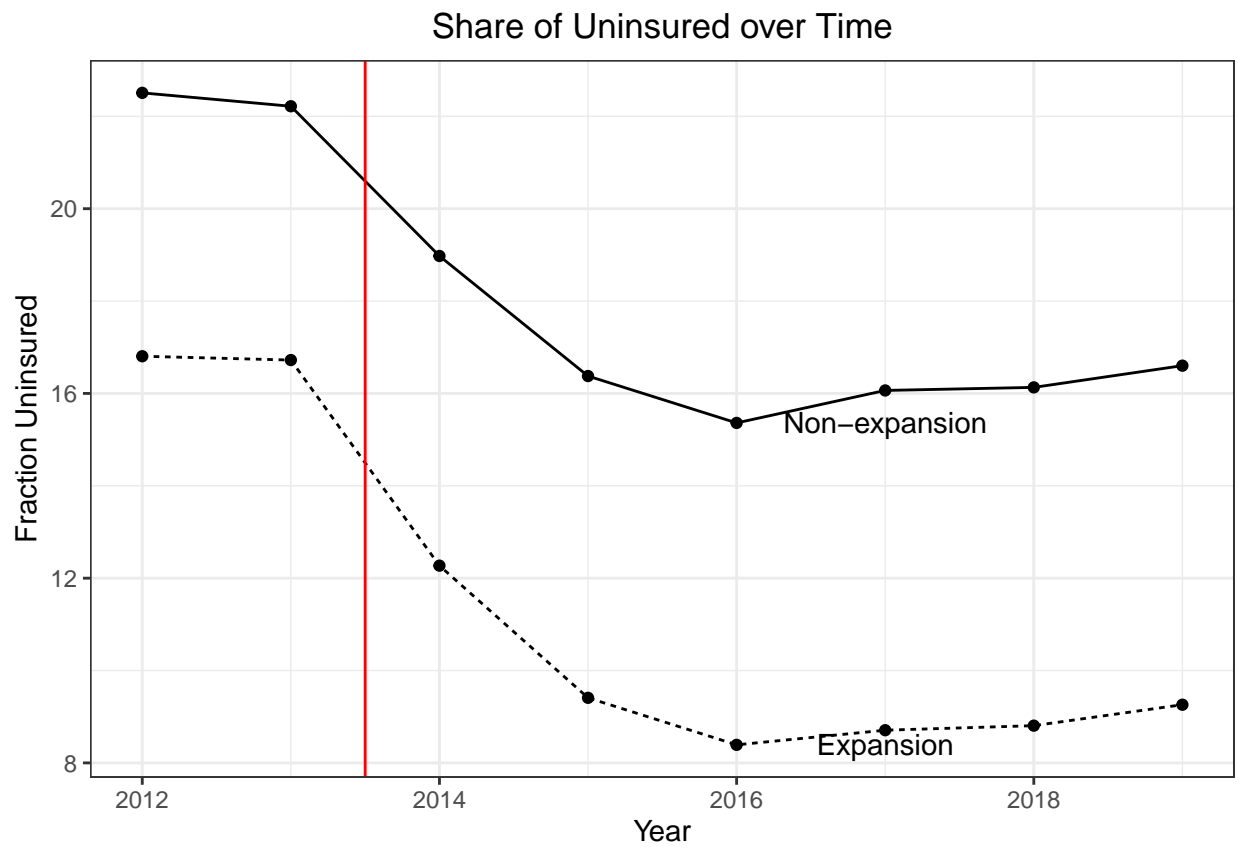


Figure 3: Share of Uninsured Over Time

2 Estimate ATEs

2.1 Question 1

Table 1: Average Share of Uninsured Individuals

	After	Before
Treated	10.96	17.88
Control	16.19	22.00

2.2 Question 2

Table 2: Effect of Medicaid Expansion on Uninsurance Rate

	DD
postTRUE	-5.778 (1.025)
expand_everTRUE	-5.599 (1.053)
treat	-1.512 (1.216)

2.3 Question 3

Table 3: Effect of Medicaid Expansion on Uninsurance Rate

	DD
year = 2012 \times expand_ever	-0.207 (0.215)
year = 2014 \times expand_ever	-1.209 (0.476)
year = 2015 \times expand_ever	-1.471 (0.753)
year = 2016 \times expand_ever	-1.475 (0.845)
year = 2017 \times expand_ever	-1.861 (0.855)
year = 2018 \times expand_ever	-1.829 (0.794)
year = 2019 \times expand_ever	-1.845 (0.812)

2.4 Question 4

Table 4: Effect of Medicaid Expansion on Uninsurance Rate

	DD
time_to_treat = -4 \times expand_ever	0.256 (0.589)
time_to_treat = -3 \times expand_ever	0.446 (0.477)
time_to_treat = -2 \times expand_ever	0.015 (0.169)
time_to_treat = 0 \times expand_ever	-1.576 (0.334)
time_to_treat = 1 \times expand_ever	-2.300 (0.559)
time_to_treat = 2 \times expand_ever	-2.476 (0.658)
time_to_treat = 3 \times expand_ever	-2.552 (0.679)
time_to_treat = 4 \times expand_ever	-2.422 (0.697)
time_to_treat = 5 \times expand_ever	-2.336 (0.753)

2.5 Question 5

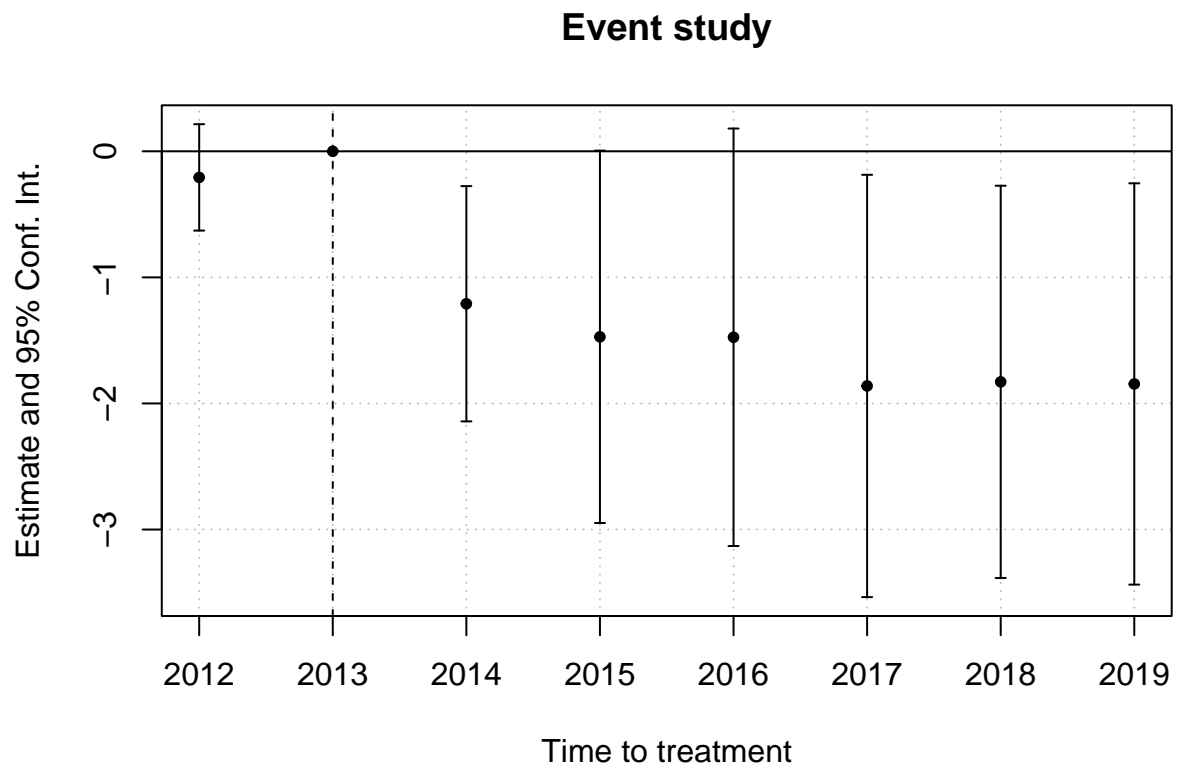


Figure 4: Effect of Medicaid Expansion

2.6 Question 6

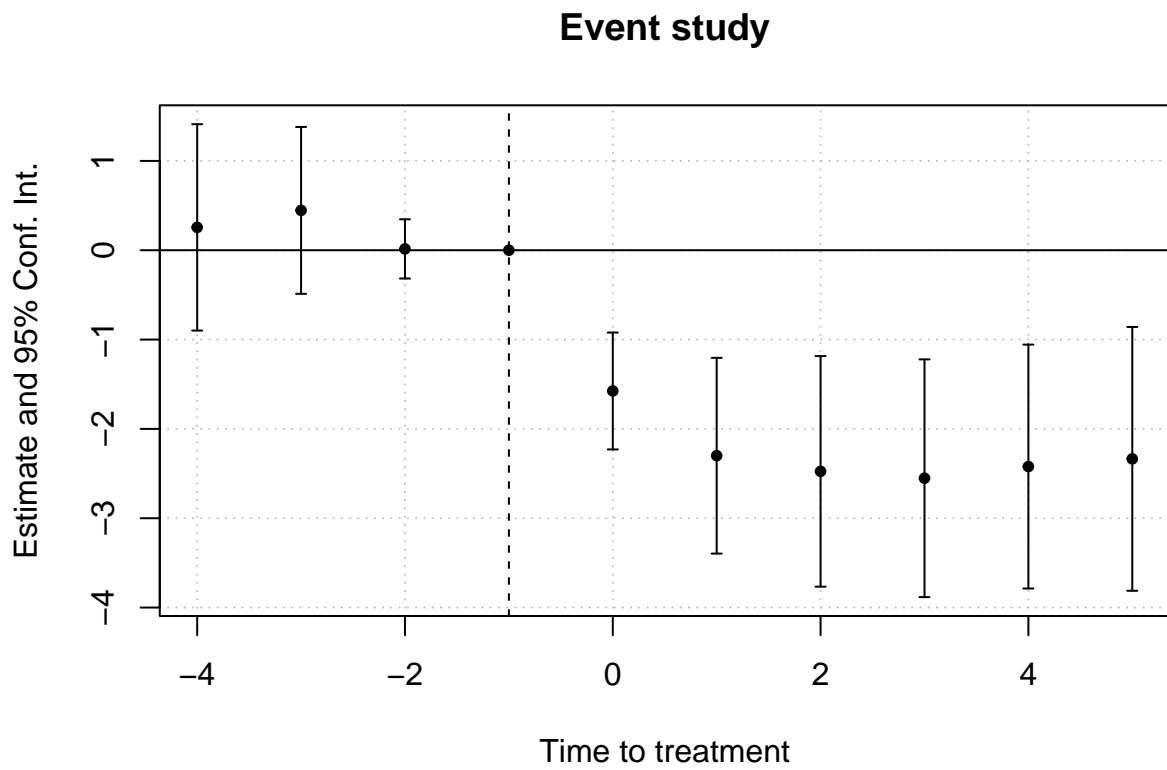


Figure 5: Effect of Medicaid Expansion