

Homework 5 - Research in Health Economics

Ammarah Ahmed

1 Summarise the Data

1.1 Question 1

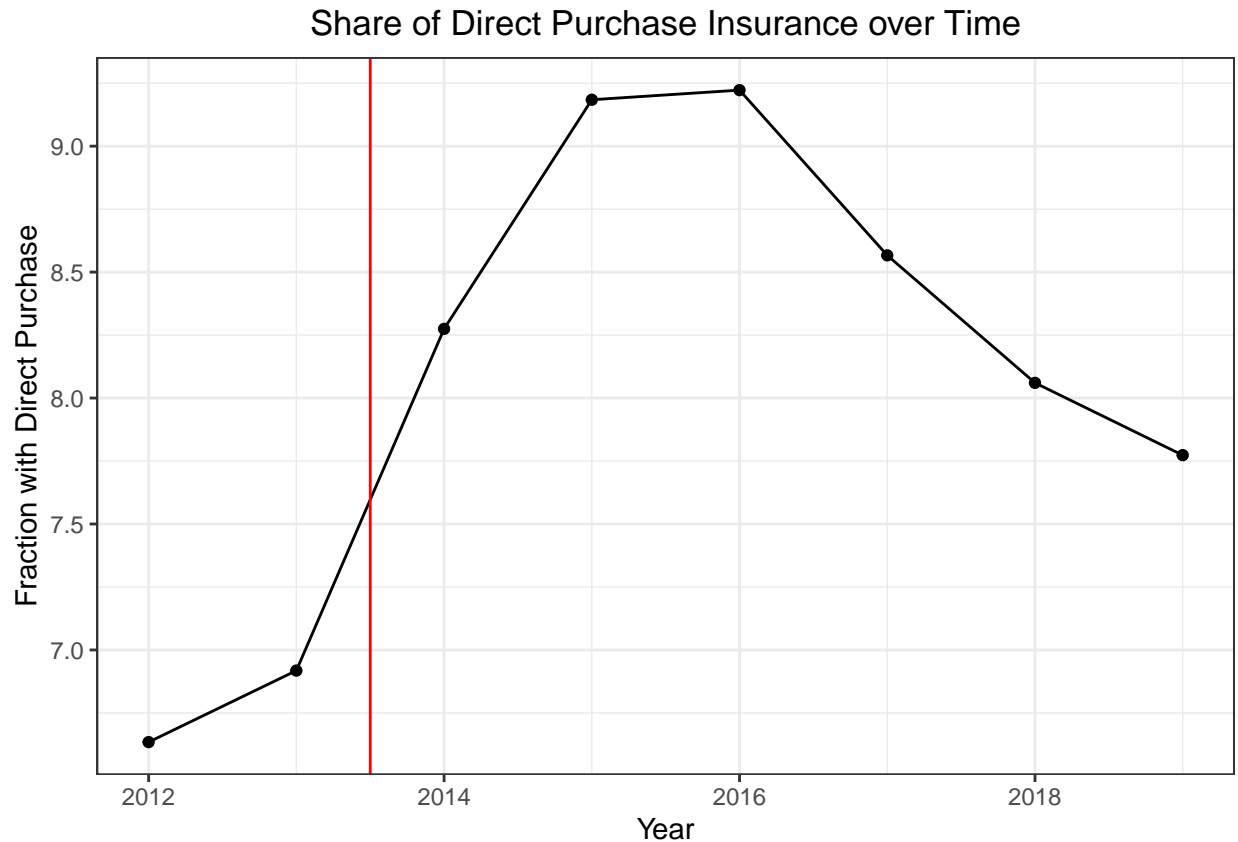


Figure 1: Share of Direct Purchase Insurance Over Time

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. Some policy that could cause this decrease in share of direct purchase insurance could be Medicaid expansion which made people who previously bought direct purchase insurance eligible for Medicaid insurance.

1.3 Question 3

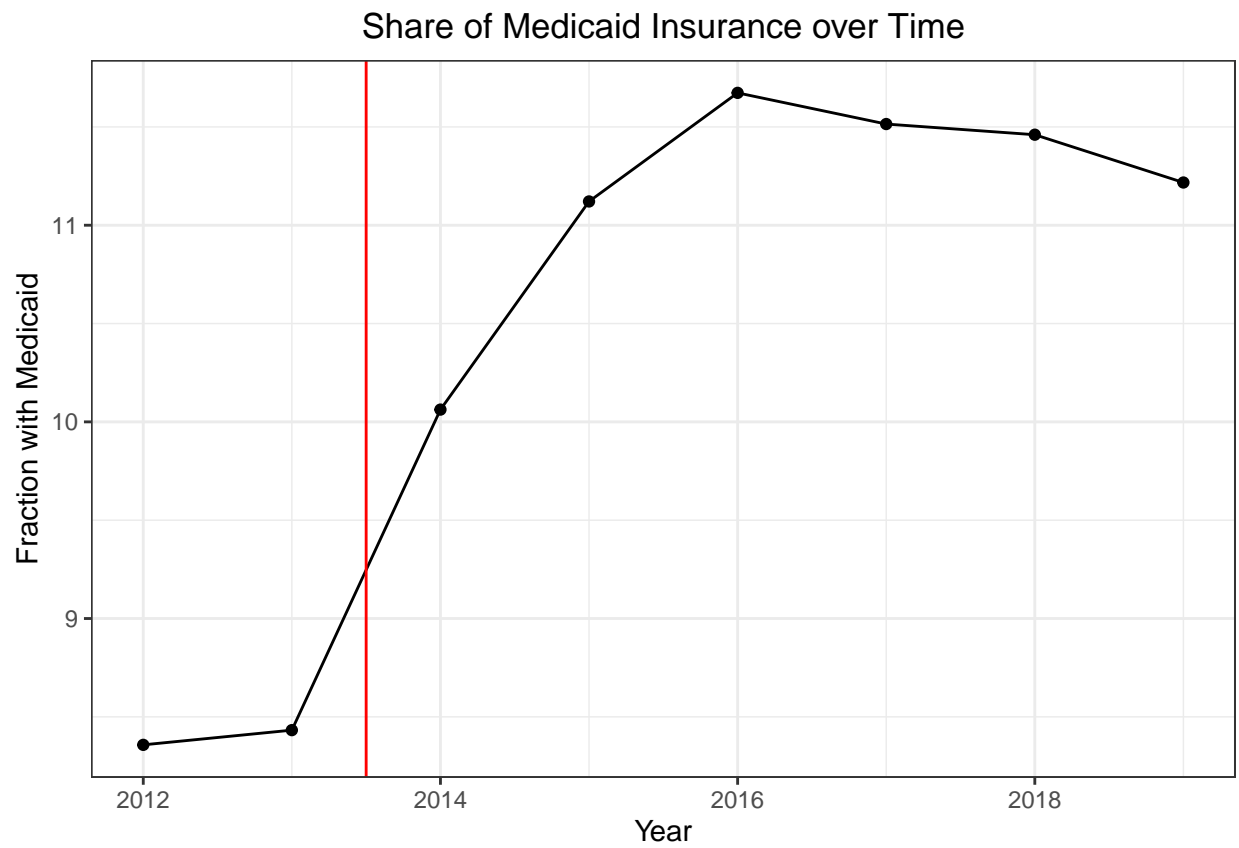


Figure 2: Share of Medicaid Insurance Over Time

1.4 Question 4

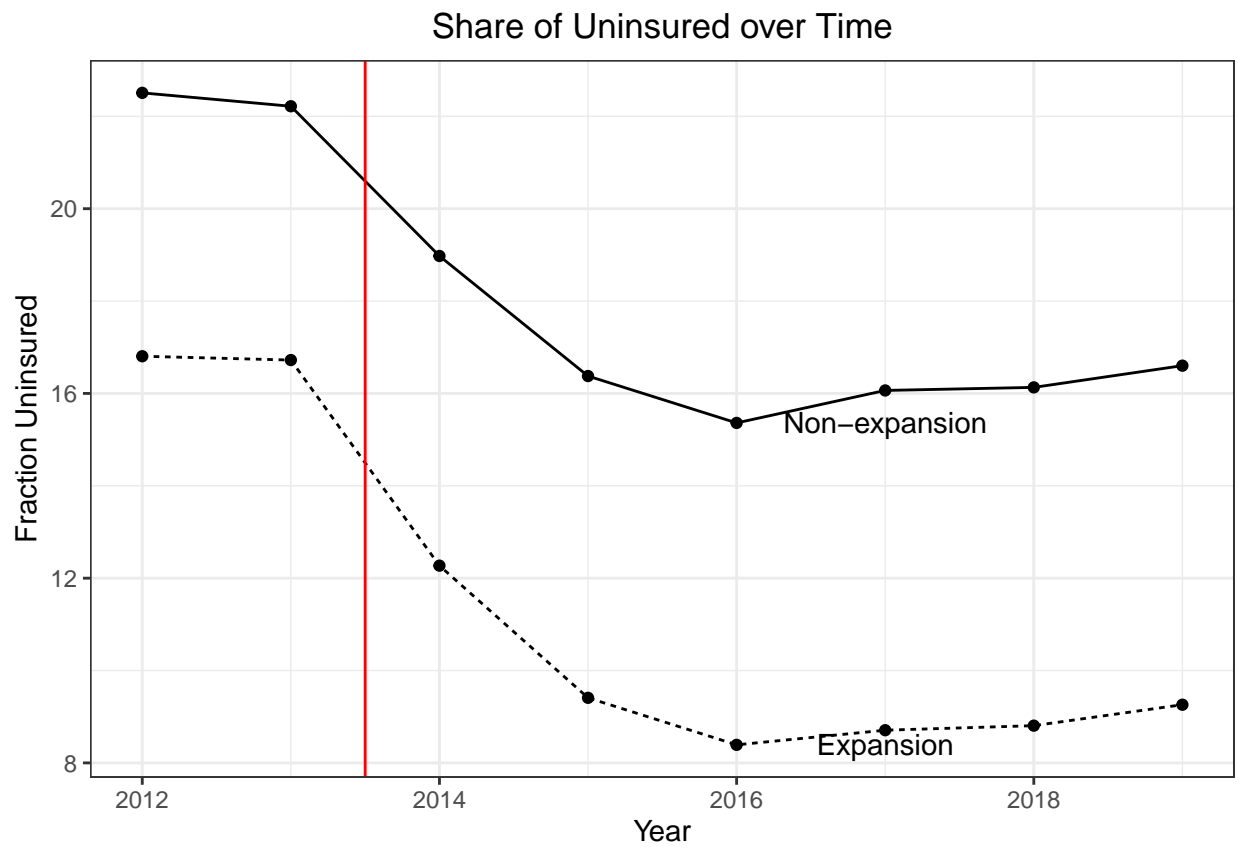


Figure 3: Share of Uninsured Over Time

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

The results if all the states are included is different from if only states that expanded in 2014 or never expanded are included. This is because many states expanded Medicaid after 2014 and the first regression does not include those results.

2.5 Question 5

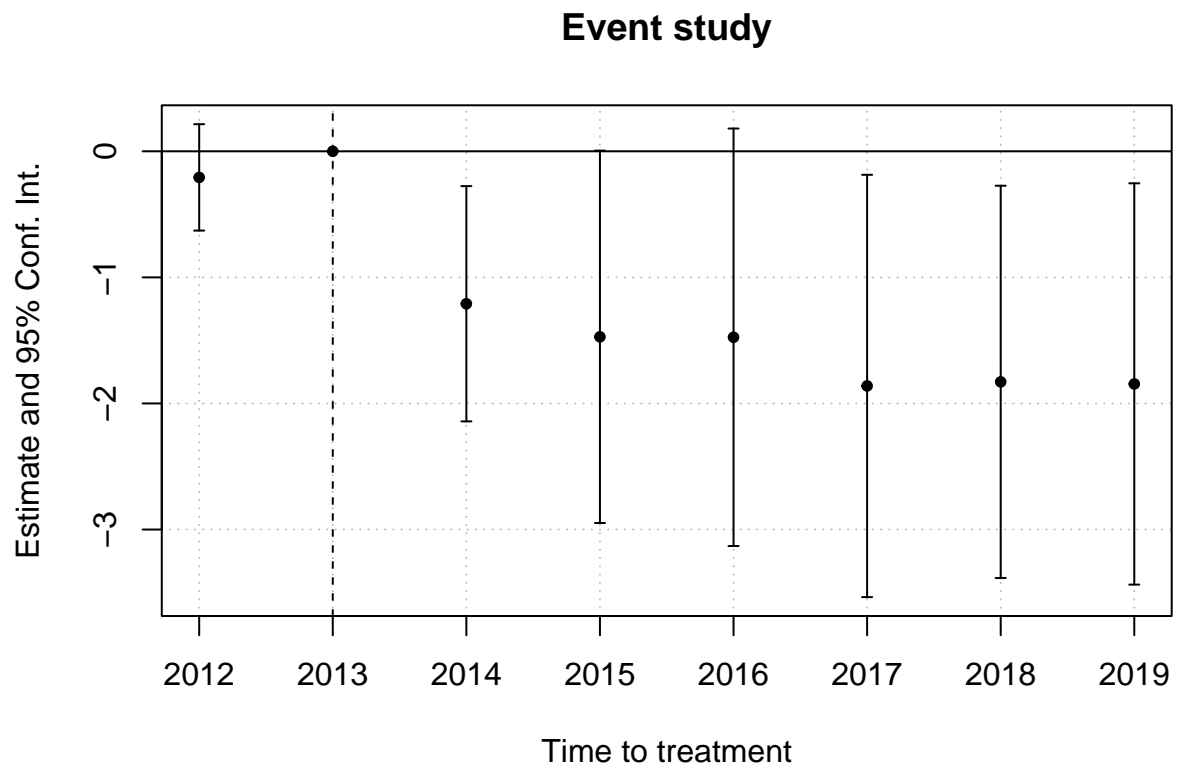


Figure 4: Effect of Medicaid Expansion

2.6 Question 6

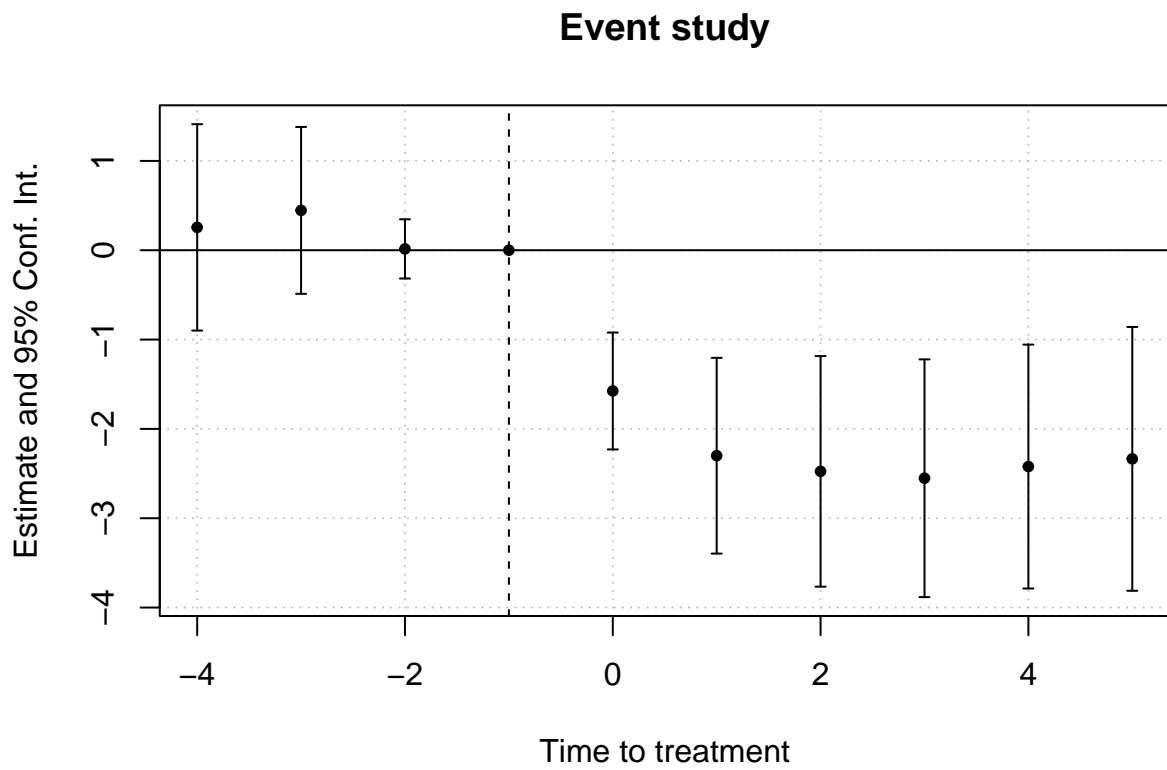


Figure 5: Effect of Medicaid Expansion