

# Homework 5 - Research in Health Economics

Ammarah Ahmed

## 1 Summarise the Data

### 1.1 Question 1

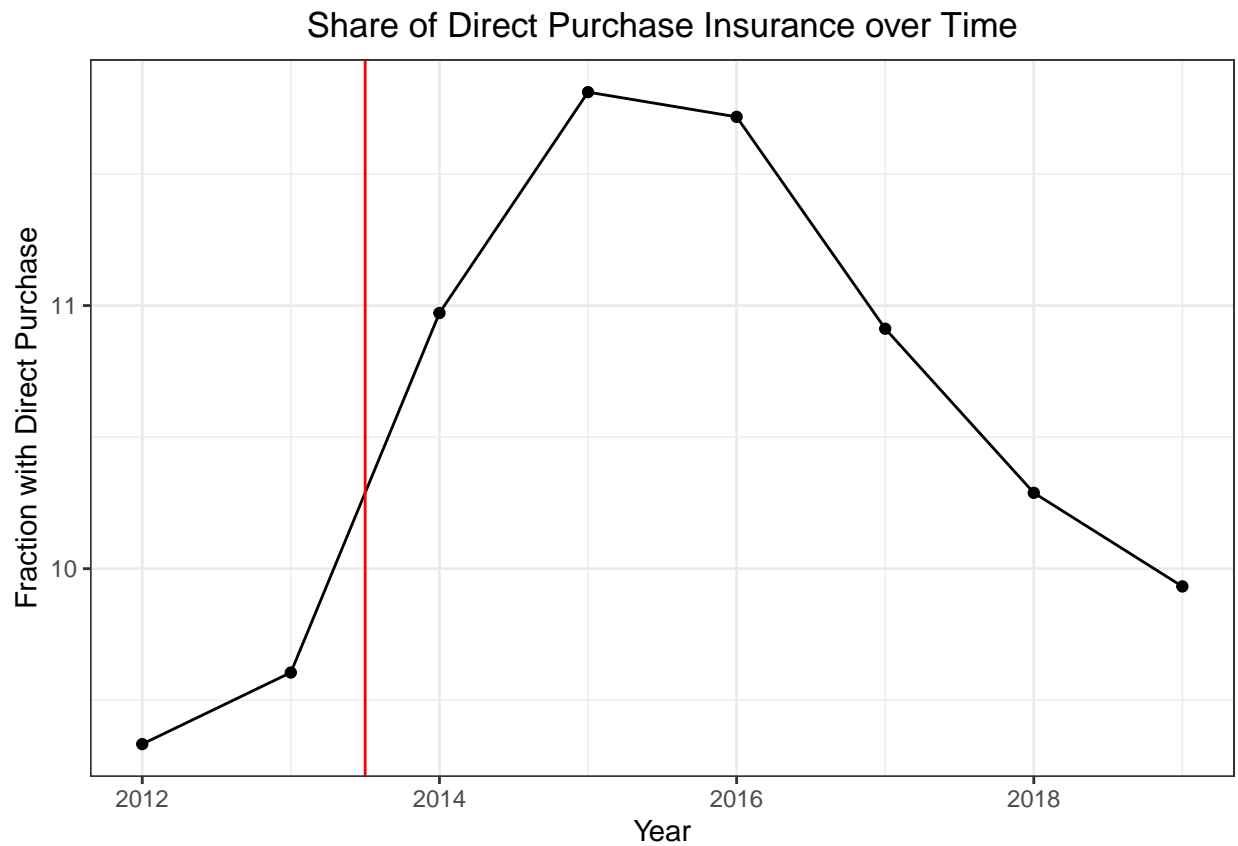


Figure 1: Share of Direct Purchase Insurance Over Time

### 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.

### 1.3 Question 3

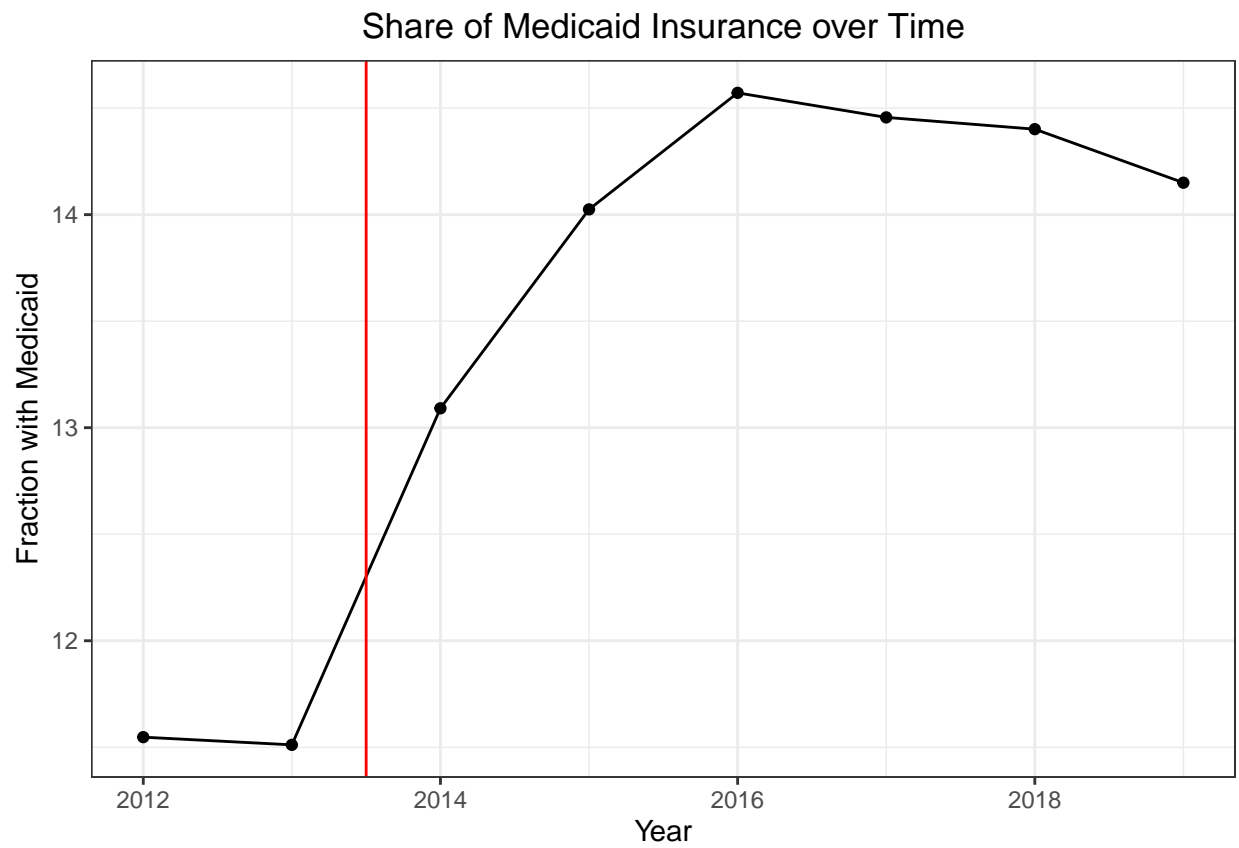


Figure 2: Share of Medicaid Insurance Over Time

#### 1.4 Question 4

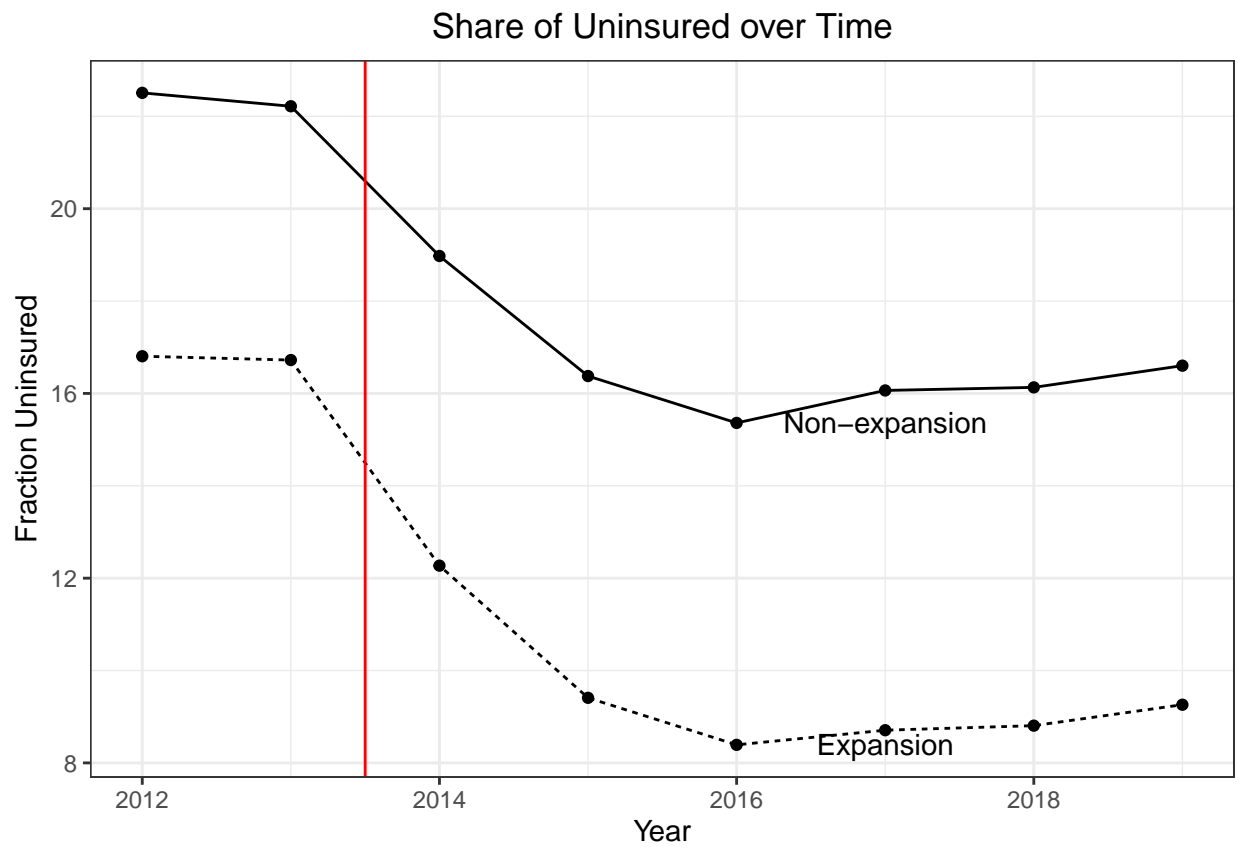


Figure 3: Share of Uninsured Over Time

## 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
time_to_treat = -2 $\times$ expand_ever	-0.207 (0.215)
time_to_treat = 0 $\times$ expand_ever	-1.209 (0.476)
time_to_treat = 1 $\times$ expand_ever	-1.471 (0.753)
time_to_treat = 2 $\times$ expand_ever	-1.475 (0.845)
time_to_treat = 3 $\times$ expand_ever	-1.861 (0.855)
time_to_treat = 4 $\times$ expand_ever	-1.829 (0.794)
time_to_treat = 5 $\times$ expand_ever	-1.845 (0.812)

### 2.4 Question 4

Table 4: Effect of Medicaid Expansion on Uninsurance Rate

	DD
time_to_treat = -3 $\times$ expand_ever	0.003 (0.005)
time_to_treat = -2 $\times$ expand_ever	0.000 (0.002)
time_to_treat = 0 $\times$ expand_ever	-0.016 (0.003)
time_to_treat = 1 $\times$ expand_ever	-0.023 (0.006)
time_to_treat = 2 $\times$ expand_ever	-0.025 (0.006)
time_to_treat = 3 $\times$ expand_ever	-0.026 (0.007)
time_to_treat = 4 $\times$ expand_ever	-0.025 (0.007)
time_to_treat = 5 $\times$ expand_ever	-0.024 (0.007)

## 2.5 Question 5

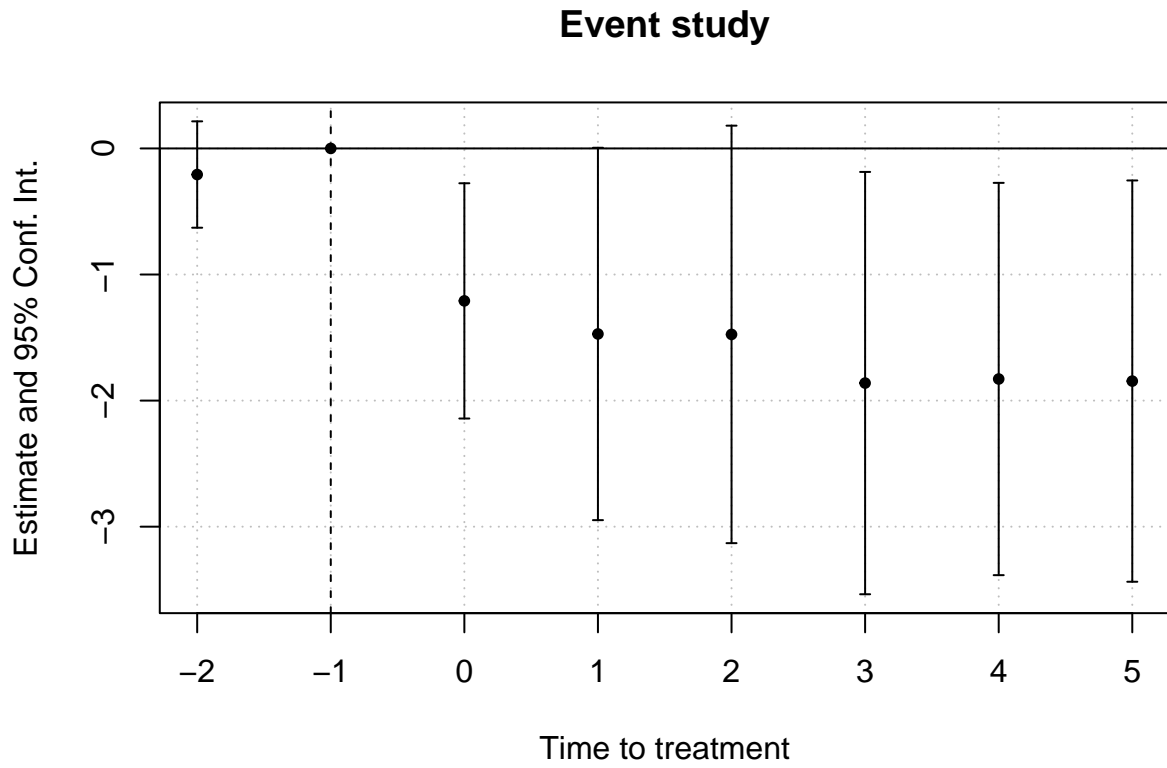


Figure 4: Effect of Medicaid Expansion

## 2.6 Question 6

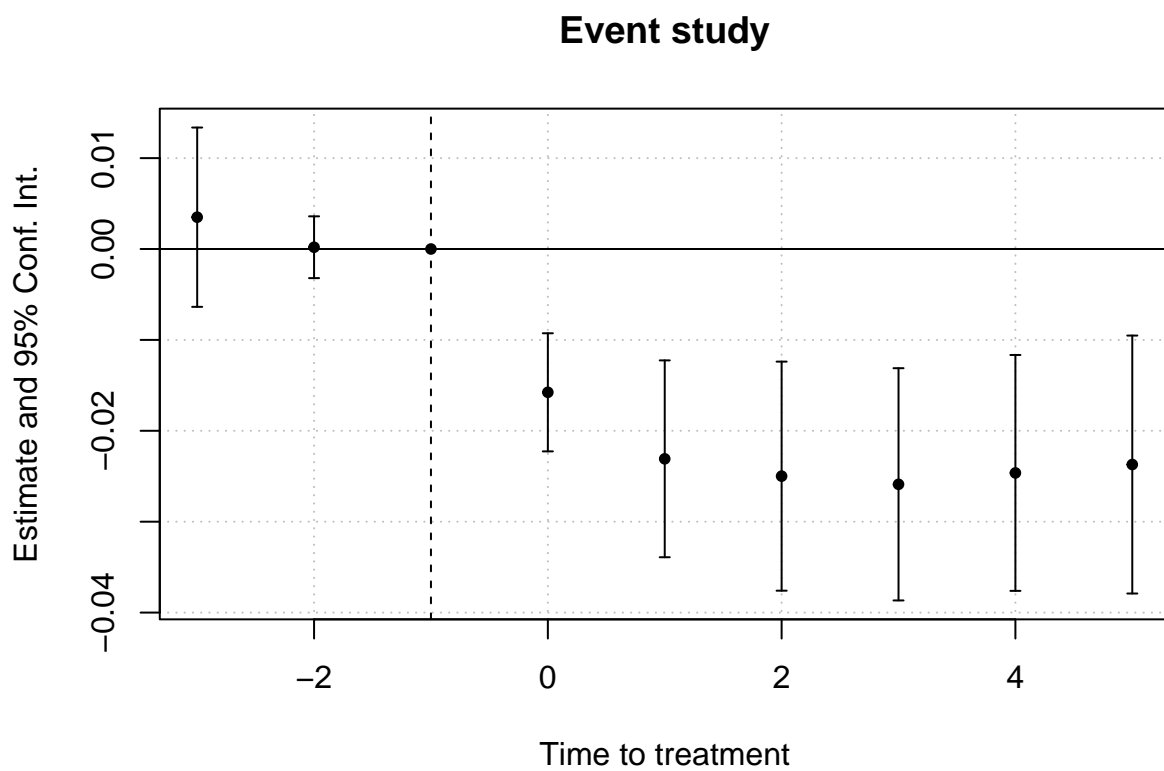


Figure 5: Effect of Medicaid Expansion