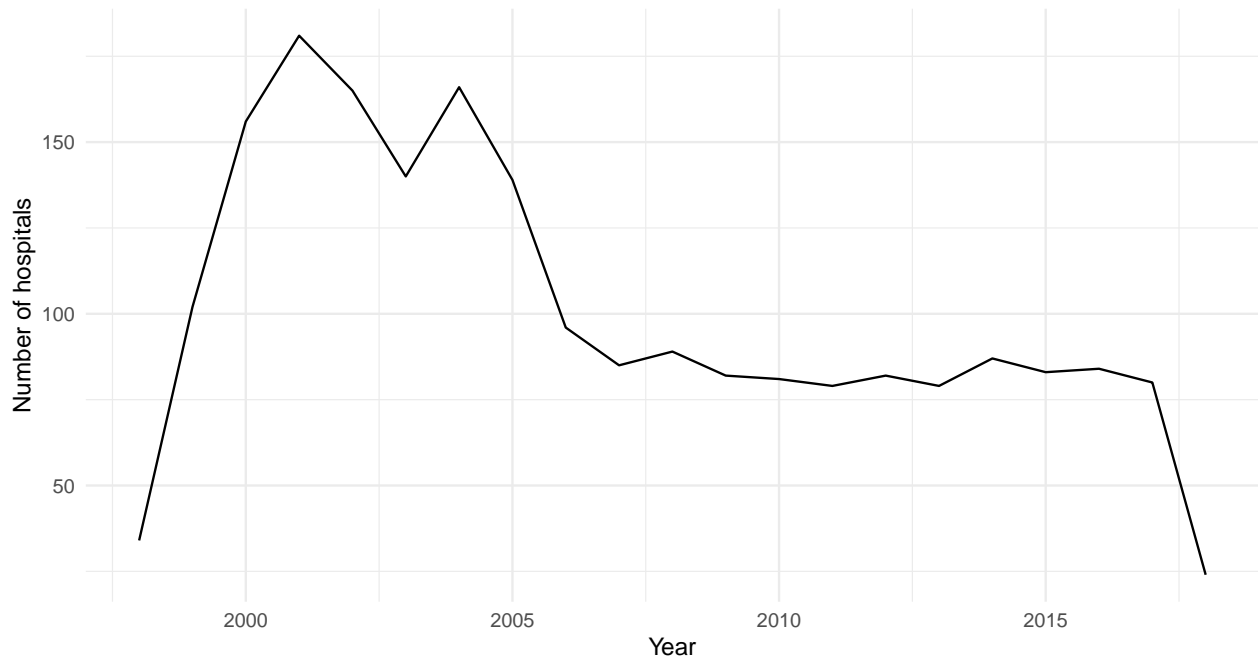# Homework 2 - Research in Health Economics

Ammarah Ahmed

#Question 1

```
## [1] "2114 hospitals filed more than one report per year. "
```

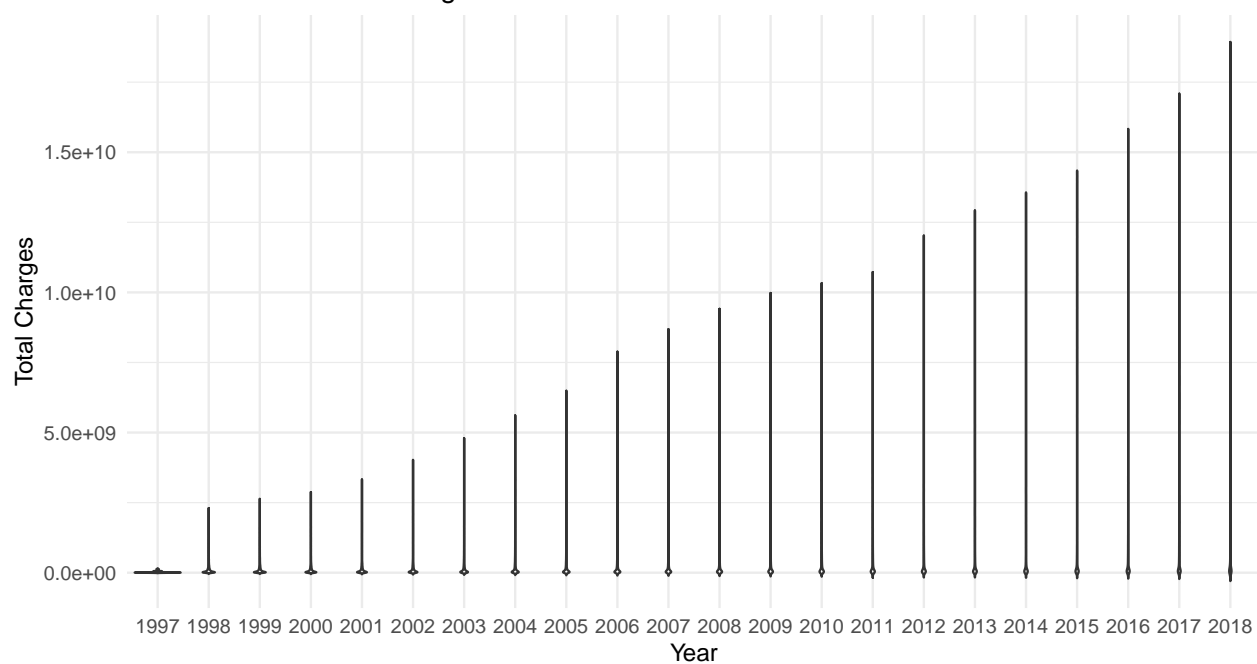**Number of Hospitals with Multiple Reports**

#Question 2

```
## [1] "There are 9323 unique Medicare IDs"
```
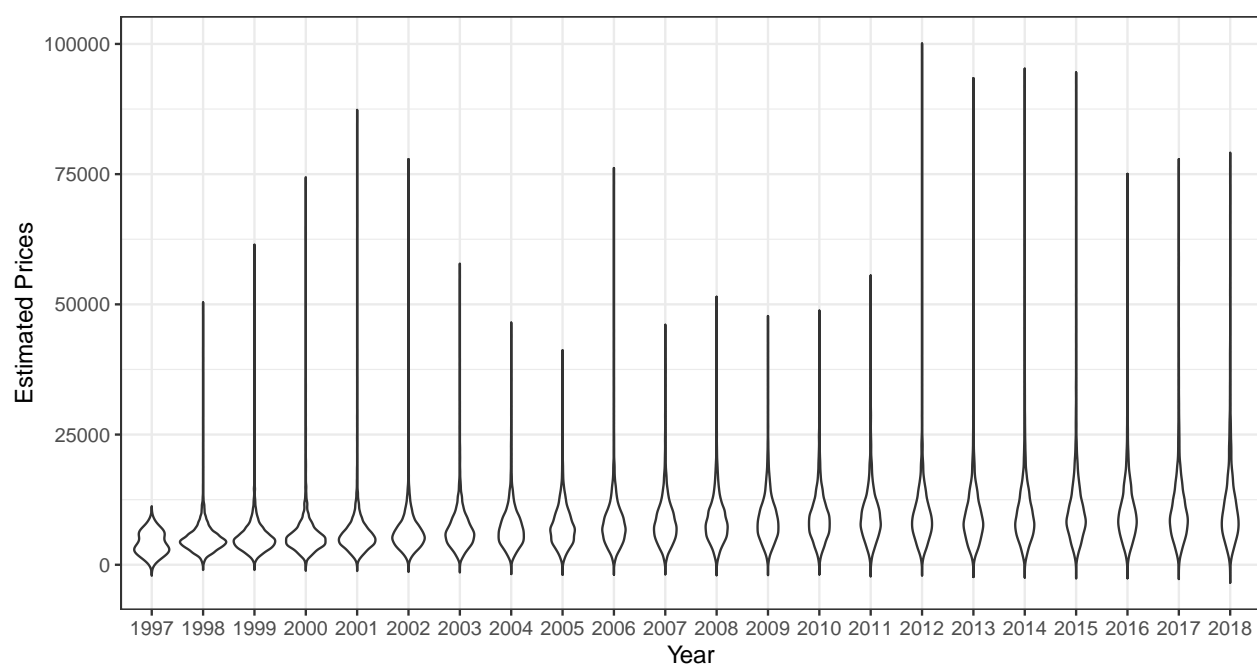
#Question 3

Distribution of Total Charges

#Question 4

Distribution of Estimated Prices

#Question 5

[1] "The average price amongst penalised hospitals is $9896.30849775112 and the average price amongst

#Question 6

#Question 7

##
Estimate... 199.53

Table 1: Average Price for Treated and Control Groups

Quartile	Penalty	Average Price
1	0	7,684.240
1	1	8,318.709
2	0	8,510.959
2	1	8,690.891
3	0	9,856.928
3	1	10,127.130
4	0	12,355.606
4	1	12,068.479

```
## AI SE......  236.05
## T-stat.....  0.84526
## p.val......  0.39796
##
## Original number of observations..............  2733
## Original number of treated obs..............  704
## Matched number of observations..............  2733
## Matched number of observations  (unweighted).  710408

##
## Estimate...  199.53
## AI SE......  236.05
## T-stat.....  0.84526
## p.val......  0.39796
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## Original number of observations..............  2733
## Original number of treated obs..............  704
## Matched number of observations..............  2733
## Matched number of observations  (unweighted).  710408
```

```
## [1] 153.1743
```

I was unable to make a table as I got an error in one the above codes.

#Question 8 I am unable to answer this question as some of my codes did not run

#Question 9 I am unsure as I do not think my codes are correct

#Question 10 Working with this dataset was interesting. I learned more about applying the concepts we learned in class and was able to get more comfortable using R. However, it was confuding at times as I am still unclear about the codes to find ATE and struggled to write the codes to get to the required answers.

#error to knit I am unabke to knit to pdf as it shows an error in line 143 even though I can run the code. Error shown as:

Error in `vectbl_as_row_location()`: ! Can't subset rows with `i`. x Logical subscript `i` must be size 1 or 6140, not 0. Backtrace: 1. ... [] 11. vctrs (local) `<fn>`() 12. vctrs:::stop_indicator_size(...) Execution halted