

# Homework 2

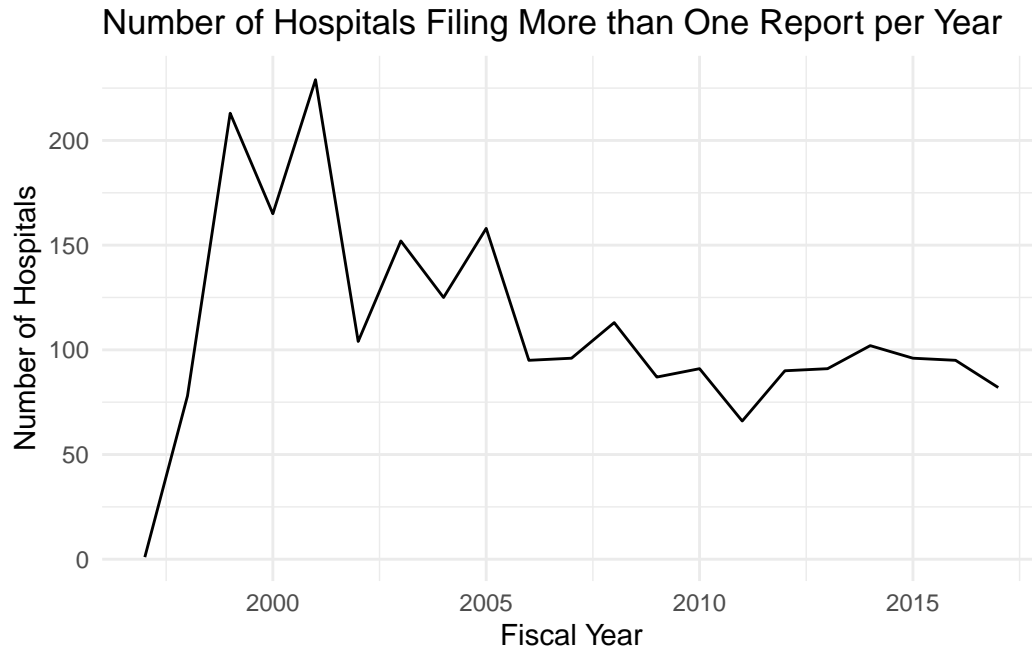
Research in Health Economics, Spring 2025

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The following is my submission for Homework 2. Note that the setup and analysis for these responses are in a separate R script. The GitHub repository for this work is available [here](#).

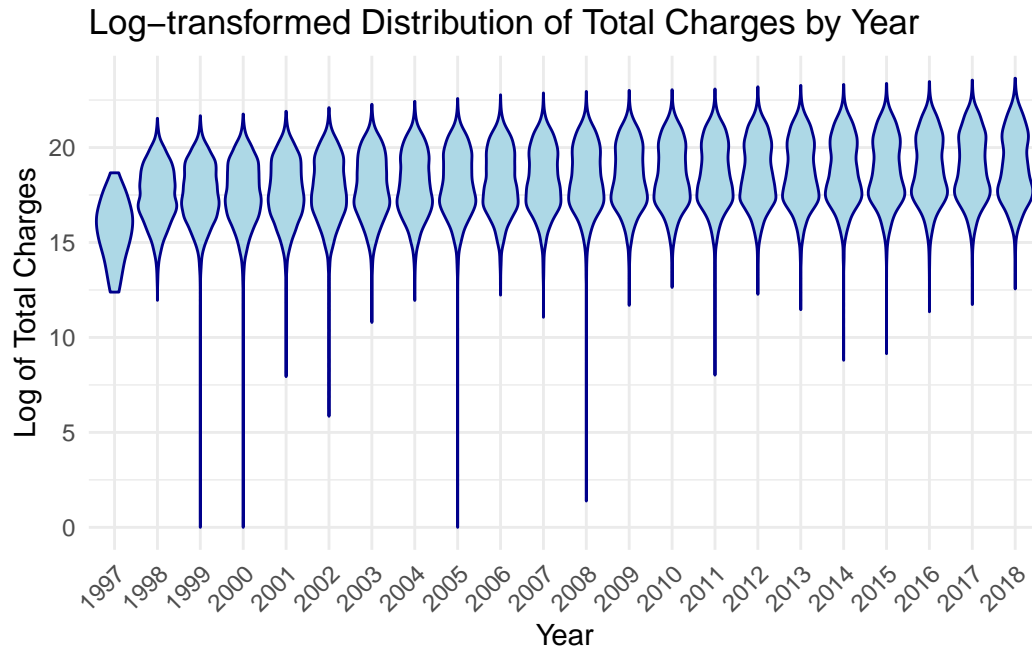
## Summarize the Data

Question 1. How many hospitals filed more than one report in the same year? Show your answer as a line graph of the number of hospitals over time.

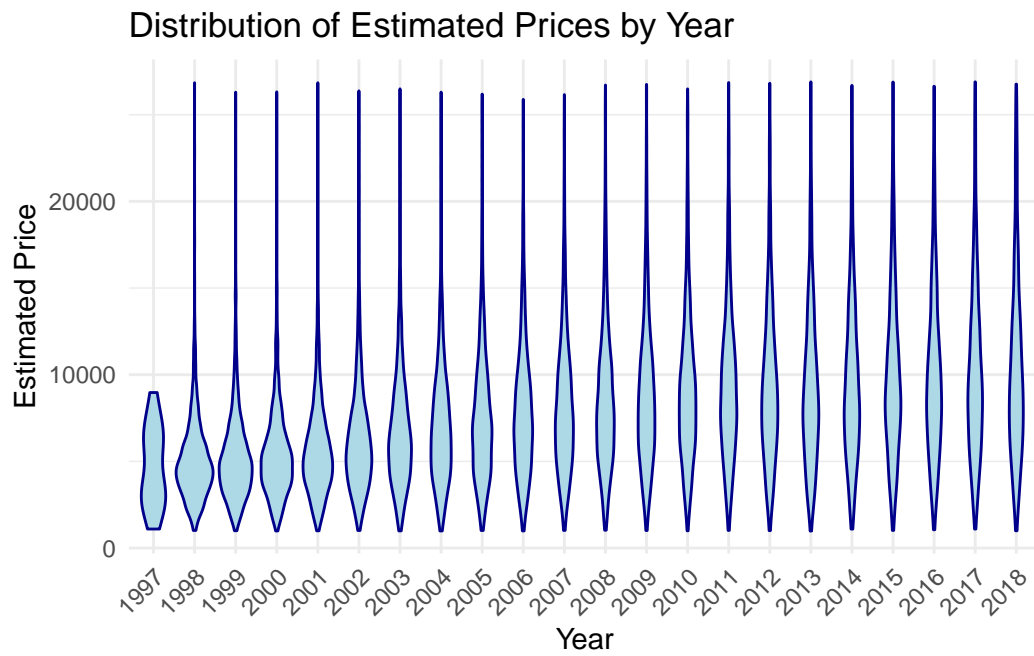


Question 2. After removing/combining multiple reports, how many unique hospital IDs exist in the data? 9323

Question 3. What is the distribution of total charges in each year? Show your results with a “violin” plot.



Question 4. What is the distribution of estimated prices in each year? Present your results with a violin plot.



Question 5. Calculate the average price among penalized versus non-penalized hospitals.

From my analysis, the average price among penalized hospitals is \$9657 and \$9232 among non-penalized hospitals.

Question 6. Split hospitals into quartiles based on bed size. Provide a table of the average price among treated/control groups for each quartile.