Apr-16-2020 Hang Yang

demographic Data analysis of physician fee schedule on insurance

# our data

Our vision is to set up anchor prices for physicians or patients’ reference on different medical procedure services around the demographic area in the United States. First, we have collected all data sources to compute the state level anchor procedure service prices for 51 states in the United States. Later on, we have discussed two special cases on state Indiana and Connecticut on the county level anchor prices.

In order to compute the anchor prices, we will need below data files:

## All Population data from United States Census Bureau

### As the latest population statistics is only released for year 2018. This sets timeline for our main targeting data files collected from Medicaid, Medicare, as well as other demographic files.

## Medicaid Enrollment Data

### State-Level

### County-Level

#### Indiana

#### Connecticut

## Medicare Enrollment Data

### State and County all data file

## Physician Fee schedule Data

### Medicaid Physician Fee Schedule

### Medicare Physician Fee Schedule

### Private Insurance PFS <Optional> Currently we assume it’s same as Medicare PFS.

# data engineering and visualization

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## Noise data

### Invalid data: focus on the time span till 2018. For example, we will count price data which takes effect after Jan-1-2019 as invalid.

### Non statistics data: such as text messages/comments in the data file. Some of the files download has lots of comments and notes in the tail. We just ignore those rows.

## Missing data

### Blanks: usually we will ignore/filter out rows with blank value, such as “UNKNOWN” rows in Medicare enrollment data.

### “\*”, “nan”, “N/A”: if it’s population or enrollment data, usually we replace this data as 0. We will also check the context, such as in the Medicare enrollment data file, the totals are constructed by “FFS Beneficiaries” – Fee For Service Program and “MA Beneficiaries” – Medicare Advantage Program. Then we fill the “\*” in the total Medicare enrollment with “FFS Beneficiaries”.

## Merge data

### As our goal is to compute the demographic anchor PFS prices, we need to combine all population data file, Medicaid enrollment data file, Medicare enrollment data file, Medicaid PFS file, and Medicare PFS export report.

# output

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# conlusion

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# Challenge and future

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