

Homework 1

ECON 470, Spring 2025

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My answers to the homework questions are described below. Note that I do the analysis for these answers in a separate R script. You can read in the full data as part of your markdown file, but that takes some time to compile to pdf. So I run the analysis separately, save the workspace with only the summary stats, figures, and tables that I need, and then load the workspace in the final qmd. My analysis file is available in the analysis folder. The GitHub repository for this work is available [here](#). Enjoy!

Building the Data

Answer the following based on our initial, simplified dataset of enrollments, plan types, and service areas:

1. Provide a table of the count of plans under each plan type in each year.

See [Table 1](#).

Table 1: All plan types in 2015

Plan Type	Count
Local PPO	561,843
HMO/HMOPOS	438,891
Employer/Union Only Direct Contract PDP	25,630
PFFS	11,262
1876 Cost	7,157
Medicare-Medicaid Plan HMO/HMOPOS	3,112
Medicare Prescription Drug Plan	1,244
National PACE	1,044
Regional PPO	101
MSA	90
HCPP - 1833 Cost	9
Pilot	2

2. Remove all special needs plans (SNP), employer group plans (eghp), and all “800-series” plans. Provide an updated table after making these exclusions.

Table 2: Revised plan types in 2015

Plan Type	Count
HMO/HMOPOS	34,055
Local PPO	14,760
1876 Cost	6,329
Medicare-Medicaid Plan HMO/HMOPOS	3,112
PFFS	1,836
National PACE	1,044
Medicare Prescription Drug Plan	1,012
MSA	86
Regional PPO	43

3. Provide a table of the average enrollments for each plan type in 2015.

Table 3: Enrollments by plan type in 2015

Plan Type	Count	Avg Enrollments
HMO/HMOPOS	34,055	880
Local PPO	14,760	320
1876 Cost	6,329	228
Medicare-Medicaid Plan HMO/HMOPOS	3,112	532
PFFS	1,836	130
National PACE	1,044	154
Medicare Prescription Drug Plan	1,012	0
MSA	86	54
Regional PPO	43	0