Homework 1 - Research in Health Economics

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Question 1

[1] "There are 51963 observations in my current dataset"

Question 2

[1] "There are 26 unique plan types in the dataset"

Question 3

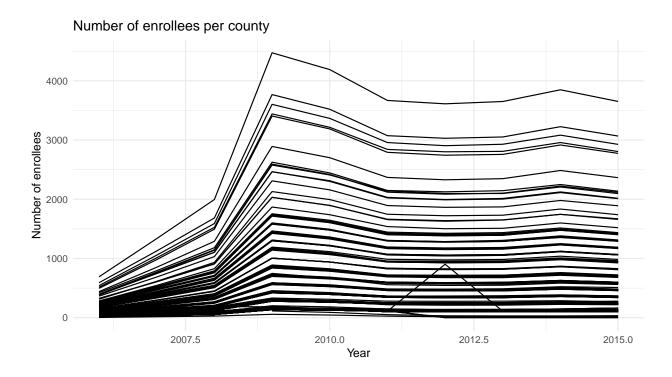
2007	2008	2009	2010	2011	2012	2013	2014	2015
153	150	156	151	149	126	122	112	111
29	36	36	36	NA	NA	NA	NA	NA
1	NA	NA	NA	NA	NA	NA	NA	NA
10	9	8	9	9	9	8	8	8
NA	2	2	2	2	2	NA	NA	NA
5	9	9	8	NA	NA	NA	NA	NA
4	3	1	1	NA	NA	NA	NA	NA
13	13	13	12	11	11	10	9	9
2028	2422	2667	2305	2138	2159	2357	2436	2400
646	800	1002	910	803	870	946	859	810
3	NA	NA	NA	NA	NA	NA	NA	NA
2040	2037	1908	1783	1293	1233	1229	1450	1244
NA	NA	NA	NA	NA	NA	41	90	76
1	NA	NA	NA	NA	NA	NA	NA	NA
9	NA	NA	NA	NA	NA	NA	NA	NA
8	25	14	6	7	7	9	9	10
3	NA	NA	NA	NA	NA	NA	NA	NA
98	110	133	148	150	172	186	216	230
562	994	849	519	237	208	187	126	72
15	12	5	3	3	3	2	2	2
22	NA	NA	NA	NA	NA	NA	NA	NA
	153 29 1 10 NA 5 4 13 2028 646 3 2040 NA 1 9 8 3 98 562 15	153 150 29 36 1 NA 10 9 NA 2 5 9 4 3 13 13 2028 2422 646 800 3 NA 2040 2037 NA NA 1 NA 9 NA 8 25 3 NA 98 110 562 994 15 12	153 150 156 29 36 36 1 NA NA 10 9 8 NA 2 2 5 9 9 4 3 1 13 13 13 2028 2422 2667 646 800 1002 3 NA NA 2040 2037 1908 NA NA NA 1 NA NA 9 NA NA 9 NA NA 9 NA NA 9 NA NA 98 110 133 562 994 849 15 12 5	153 150 156 151 29 36 36 36 1 NA NA NA 10 9 8 9 NA 2 2 2 5 9 9 8 4 3 1 1 13 13 13 12 2028 2422 2667 2305 646 800 1002 910 3 NA NA NA 2040 2037 1908 1783 NA NA NA NA 9 NA NA NA 9 NA NA NA 9 NA NA NA 98 110 133 148 562 994 849 519 15 12 5 3	153 150 156 151 149 29 36 36 36 NA 1 NA NA NA NA 10 9 8 9 9 NA 2 2 2 2 5 9 9 8 NA 4 3 1 1 NA 13 13 13 12 11 2028 2422 2667 2305 2138 646 800 1002 910 803 3 NA NA NA NA 2040 2037 1908 1783 1293 NA NA NA NA NA 9 NA NA NA NA 9 NA NA NA NA 9 NA NA NA NA 98 110 133 148 150 <tr< td=""><td>153 150 156 151 149 126 29 36 36 36 NA NA 1 NA NA NA NA NA 10 9 8 9 9 9 NA 2 2 2 2 2 5 9 9 8 NA NA 4 3 1 1 NA NA 13 13 13 12 11 11 2028 2422 2667 2305 2138 2159 646 800 1002 910 803 870 3 NA NA NA NA NA 2040 2037 1908 1783 1293 1233 NA NA NA NA NA 9 NA NA NA NA 9 NA NA NA NA</td><td>153 150 156 151 149 126 122 29 36 36 36 NA NA NA 1 NA NA NA NA NA NA 10 9 8 9 9 9 8 NA 2 2 2 2 2 NA 5 9 9 8 NA NA NA 4 3 1 1 NA NA NA 13 13 13 12 11 11 10 2028 2422 2667 2305 2138 2159 2357 646 800 1002 910 803 870 946 3 NA NA NA NA NA NA 2040 2037 1908 1783 1293 1233 1229 NA NA NA NA NA</td><td>153 150 156 151 149 126 122 112 29 36 36 36 NA NA NA NA 1 NA NA NA NA NA NA NA 10 9 8 9 9 9 8 8 NA 2 2 2 2 NA NA NA 5 9 9 8 NA NA NA NA NA 4 3 1 1 NA N</td></tr<>	153 150 156 151 149 126 29 36 36 36 NA NA 1 NA NA NA NA NA 10 9 8 9 9 9 NA 2 2 2 2 2 5 9 9 8 NA NA 4 3 1 1 NA NA 13 13 13 12 11 11 2028 2422 2667 2305 2138 2159 646 800 1002 910 803 870 3 NA NA NA NA NA 2040 2037 1908 1783 1293 1233 NA NA NA NA NA 9 NA NA NA NA 9 NA NA NA NA	153 150 156 151 149 126 122 29 36 36 36 NA NA NA 1 NA NA NA NA NA NA 10 9 8 9 9 9 8 NA 2 2 2 2 2 NA 5 9 9 8 NA NA NA 4 3 1 1 NA NA NA 13 13 13 12 11 11 10 2028 2422 2667 2305 2138 2159 2357 646 800 1002 910 803 870 946 3 NA NA NA NA NA NA 2040 2037 1908 1783 1293 1233 1229 NA NA NA NA NA	153 150 156 151 149 126 122 112 29 36 36 36 NA NA NA NA 1 NA NA NA NA NA NA NA 10 9 8 9 9 9 8 8 NA 2 2 2 2 NA NA NA 5 9 9 8 NA NA NA NA NA 4 3 1 1 NA N

plan_type	2007	2008	2009	2010	2011	2012	2013	2014	2015
PSO (State License)	21	45	8	8	7	7	NA	NA	NA
Regional PPO	161	172	176	146	141	124	119	110	101
RFB PFFS	NA	NA	2	NA	NA	NA	NA	NA	NA
SHMO	16	NA							
WI Partnership Program	5	NA							
NA	NA	NA	161	477	NA	NA	NA	NA	NA

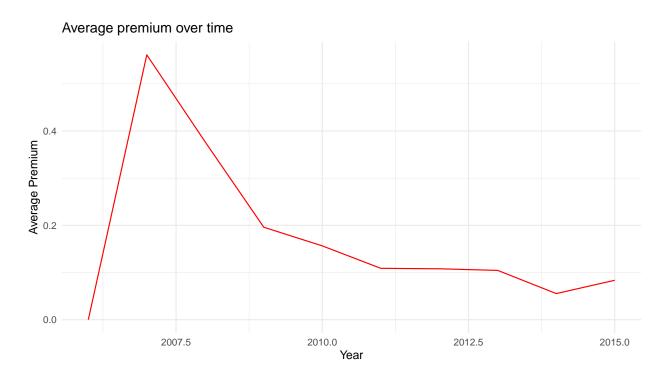
Question 4

plan_type	2007	2008	2009	2010	2011	2012	2013	2014	2015
1876 Cost	141	136	136	130	131	112	109	99	98
Continuing Care Retirement	16	20	20	20	NA	NA	NA	NA	NA
Community									
ESRD I	5	9	9	8	NA	NA	NA	NA	NA
HCPP - 1833 Cost	13	13	13	12	11	11	10	9	9
HMO/HMOPOS	1217	1314	1430	1255	1098	1120	1203	1243	1271
Local PPO	347	422	522	518	509	504	548	513	465
Medicare Prescription Drug Plan	1862	1858	1733	1619	1136	1062	1051	1186	1012
Medicare-Medicaid Plan	NA	NA	NA	NA	NA	NA	41	90	76
HMO/HMOPOS									
MSA	6	14	7	3	5	5	6	6	7
MSA Demo	2	NA							
National PACE	98	110	133	148	150	172	186	216	230
PFFS	457	806	653	413	213	201	180	120	69
Pilot	15	12	5	3	3	3	2	2	2
PSO (Federal Waiver of State	10	NA							
License)									
PSO (State License)	13	27	7	7	6	5	NA	NA	NA
Regional PPO	42	43	51	59	59	54	51	48	43
RFB PFFS	NA	NA	2	NA	NA	NA	NA	NA	NA
SHMO	3	NA							
NA	NA	NA	139	346	NA	NA	NA	NA	NA

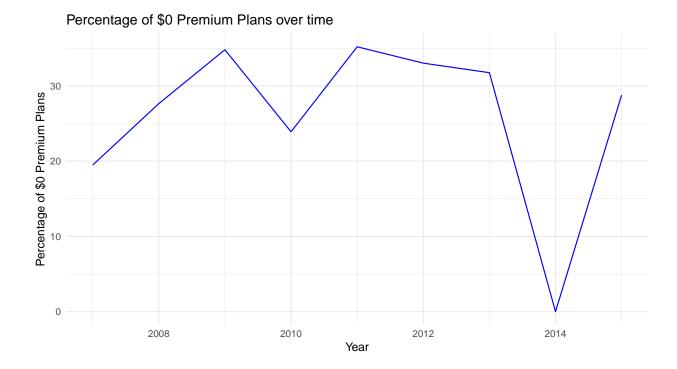
Question 5



Question 6



Question 7



Question 8

The 800-series plans represent the insurance plans offered by third parties, and this might not be representative of the whole population

Question 9

Maybe so many insurance companies decided to charge a \$0 premium because this might increase the demand for the insurance. For a beneficiary this might mean that less benefits are included.

Question 10

Working with this data was at times a little frustrating, since I was not really familiar with the data, and what the end goal was. I was not really working and doing all these things with a goal in mind, but instead I was simply following instructions, which made it harder for me to understand the purpose of the assingment and what I was supposed to achieve with it, and consequently at times I didn't know what I was doing.