

Appendix G. Feature Importances

Contents

Appendix G. Feature Importances 1

 Data as a Decomposition of Time 1

 Final state-of-the-art production model - XGBoost 1

 Data as a Decomposition of Population 22

 Final state-of-the-art production model - XGBoost 22

Data as a Decomposition of Time

Final state-of-the-art production model - XGBoost

Table G1. Feature Importances With Importance Type 'Gain'

Feature Ranking	Feature Name	Relative Feature Importance (%)	Cumulative Feature Importance (%)
1	Number of Historical Emergency Department + Inpatient Events	16.29%	16.29%
2	Emergency Department Event Sum	2.38%	18.68%
3	Dual Status=Non-Medicaid	1.90%	20.58%
4	Original reason for Medicare entitlement=Old age and survivor's insurance (OASI)	1.87%	22.45%
5	Distinct Chronic Hierarchical Condition Category Month Count	1.25%	23.70%
6	Maximum Number of Monthly Distinct ICD10 Codes	0.89%	24.59%
7	Distinct Hierarchical Condition Category Month Count	0.82%	25.41%
8	Average Number of Hereditary and degenerative nervous system conditions Codes Per Month	0.78%	26.19%
9	Distinct Body System Category Count	0.78%	26.96%
10	Gender=Male	0.77%	27.74%
11	Home Event Sum	0.75%	28.48%
12	Original reason for Medicare entitlement=Disability insurance benefits (DIB)	0.64%	29.12%

13	Age	0.59%	29.71%
14	Total Event Sum	0.58%	30.30%
15	Race=Black	0.54%	30.84%
16	Distinct Chronic Condition Count	0.47%	31.31%
17	Maximum Number of Monthly Distinct Chronic Condition Count	0.47%	31.78%
18	Average Number of Monthly Mental Illness Chronic Codes Per Month	0.47%	32.25%
19	Distinct Mental Health Condition Count	0.46%	32.71%
20	Outpatient Event Sum	0.46%	33.17%
21	Binary Indicator of ICD10 Diagnosis Category Related To g40 Epilepsy; convulsions	0.45%	33.62%
22	Binary Indicator of ICD10 Diagnosis Category Related To n39 Urinary tract infections	0.42%	34.04%
23	90-Day Hospital Readmission Count	0.41%	34.44%
24	Average Number of Disorders of lipid metabolism [53.] Codes Per Month	0.40%	34.84%
25	Average Number of Average Number of Skilled Nursing Facility Events	0.40%	35.24%
26	Count of Miscellaneous diagnostic and therapeutic procedures	0.39%	35.63%
27	Binary Indicator of ICD10 Diagnosis Category Related To z79 Other aftercare	0.38%	36.01%
28	Other Event Sum	0.38%	36.38%
29	Binary Indicator of ICD10 Diagnosis Category Related To r30 Genitourinary symptoms and ill-defined conditions	0.36%	36.75%
30	Binary Indicator of ICD10 Diagnosis Category Related To h16 Other eye disorders	0.36%	37.11%
31	Average Number of Monthly Injury and poisoning Chronic Codes Per Month	0.35%	37.46%
32	Skilled Nursing Facility Event Sum	0.33%	37.78%
33	Average Number of Diseases of the heart Codes Per Month	0.32%	38.10%
34	60-Day Hospital Readmission Count	0.32%	38.42%
35	Binary Indicator of ICD10 Diagnosis Category Related To i48 Cardiac dysrhythmias	0.31%	38.72%
36	Binary Indicator of ICD10 Diagnosis Category Related To i50 Congestive heart failure; nonhypertensive	0.31%	39.03%
37	Medicare Status=Disabled without ESRD	0.29%	39.33%
38	Binary Indicator of ICD10 Diagnosis Category Related To r06 Other upper respiratory disease	0.29%	39.62%
39	Dual Status=Multiple	0.29%	39.91%
40	Average Number of Monthly Diabetes with Chronic Complications Codes Per Month	0.28%	40.19%
41	Count of Operations on the musculoskeletal system	0.28%	40.47%
42	Average Number of Monthly Morbid Obesity Codes Per Month	0.27%	40.74%
43	Average Number of Monthly Distinct Chronic Obstructive Pulmonary Disease Codes Per Month	0.27%	41.02%
44	Total Number of Procedures	0.27%	41.29%

45	Binary Indicator of ICD10 Diagnosis Category Related To i16 Hypertension with complications and secondary hypertension	0.27%	41.56%
46	Average Number of Osteoporosis [206.] Codes Per Month	0.27%	41.83%
47	Binary Indicator of ICD10 Diagnosis Category Related To i13 Hypertension with complications and secondary hypertension	0.26%	42.10%
48	Binary Indicator of ICD10 Diagnosis Category Related To j45 Asthma	0.25%	42.35%
49	Distinct Clinical Classification Software Category Month Count	0.25%	42.59%
50	Average Number of Monthly Distinct ICD10 Codes	0.25%	42.84%
51	Binary Indicator of ICD10 Diagnosis Category Related To z12 Other screening for suspected conditions (not mental disorders or infectious disease)	0.24%	43.08%
52	Average Number of Diabetes mellitus with complications [50.] Codes Per Month	0.24%	43.33%
53	Binary Indicator of ICD10 Diagnosis Category Related To i67 Other CNS infection and poliomyelitis	0.24%	43.57%
54	Binary Indicator of ICD10 Diagnosis Category Related To r51 Headache; including migraine	0.24%	43.81%
55	Average Number of Monthly Chronic Kidney Disease, Severe (Stage 4) Codes Per Month	0.23%	44.04%
56	Binary Indicator of ICD10 Diagnosis Category Related To n30 Urinary tract infections	0.23%	44.28%
57	Average Number of Monthly Parkinsonâ€™s and Huntingtonâ€™s Diseases Codes Per Month	0.23%	44.51%
58	Binary Indicator of ICD10 Diagnosis Category Related To g20 Parkinson`s disease	0.23%	44.73%
59	Binary Indicator of ICD10 Diagnosis Category Related To g89 Other nervous system disorders	0.22%	44.95%
60	Distinct Chronic Clinical Classification Software Category Month Count	0.21%	45.16%
61	Binary Indicator of ICD10 Diagnosis Category Related To i25 Other and ill-defined heart disease	0.21%	45.37%
62	Average Number of Epilepsy; convulsions [83.] Codes Per Month	0.20%	45.57%
63	Binary Indicator of ICD10 Diagnosis Category Related To m79 Other connective tissue disease	0.20%	45.77%
64	Binary Indicator of ICD10 Diagnosis Category Related To r32 Genitourinary symptoms and ill-defined conditions	0.19%	45.97%
65	Binary Indicator of ICD10 Diagnosis Category Related To z95 Other circulatory disease	0.19%	46.16%
66	Dual Status=QMB and full Medicaid coverage, including prescription drugs	0.19%	46.35%
67	Average Number of Monthly Fibrosis of Lung and Other Chronic Lung Disorders Codes Per Month	0.19%	46.54%
68	Binary Indicator of ICD10 Diagnosis Category Related To d12 Other and unspecified benign neoplasm	0.19%	46.73%
69	Binary Indicator of ICD10 Diagnosis Category Related To k59 Other gastrointestinal disorders	0.19%	46.92%
70	Binary Indicator of ICD10 Diagnosis Category Related To h02 Other eye disorders	0.19%	47.11%
71	Dual Status=Other dual eligible (not QMB, SLMB, QWDI, or QI) with full Medicaid coverage, including prescription Drugs	0.19%	47.30%
72	Binary Indicator of ICD10 Diagnosis Category Related To j40 Chronic obstructive pulmonary disease and bronchiectasis	0.18%	47.48%
73	Binary Indicator of ICD10 Diagnosis Category Related To z23 Immunizations and screening for infectious disease	0.18%	47.66%

74	Binary Indicator of ICD10 Diagnosis Category Related To g62 Other nervous system disorders	0.18%	47.85%
75	Distinct Count of Injury and poisoning Codes Per Month	0.18%	48.03%
76	Binary Indicator of ICD10 Diagnosis Category Related To g60 Other nervous system disorders	0.18%	48.21%
77	Binary Indicator of ICD10 Diagnosis Category Related To e78 Other nutritional; endocrine; and metabolic disorders	0.18%	48.39%
78	Binary Indicator of ICD10 Diagnosis Category Related To h25 Cataract	0.18%	48.57%
79	Binary Indicator of ICD10 Diagnosis Category Related To k80 Biliary tract disease	0.18%	48.75%
80	Binary Indicator of ICD10 Diagnosis Category Related To d50 Deficiency and other anemia	0.18%	48.93%
81	Average Number of Monthly Distinct Chronic Ulcer of Skin, Except Pressure Codes Per Month	0.18%	49.11%
82	Average Number of Monthly Distinct Morbid Obesity Codes Per Month	0.18%	49.28%
83	Maximum Number of Maximum Number of Skilled Nursing Facility Events	0.18%	49.46%
84	Binary Indicator of ICD10 Diagnosis Category Related To i87 Other diseases of veins and lymphatics	0.17%	49.63%
85	Binary Indicator of ICD10 Diagnosis Category Related To r60 Residual codes; unclassified	0.17%	49.80%
86	Binary Indicator of ICD10 Diagnosis Category Related To e10 Diabetes mellitus without complication	0.17%	49.97%
87	Binary Indicator of ICD10 Diagnosis Category Related To h43 Other eye disorders	0.17%	50.13%
88	Binary Indicator of ICD10 Diagnosis Category Related To n13 Urinary tract infections	0.17%	50.30%
89	Average Number of Monthly Angina Pectoris Codes Per Month	0.17%	50.46%
90	Binary Indicator of ICD10 Diagnosis Category Related To b96 Bacterial infection; unspecified site	0.16%	50.63%
91	Binary Indicator of ICD10 Diagnosis Category Related To i51 Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease)	0.16%	50.79%
92	Average Number of Distinct Monthly Diseases of the digestive system Codes Per Month	0.16%	50.96%
93	Binary Indicator of ICD10 Diagnosis Category Related To r35 Genitourinary symptoms and ill-defined conditions	0.16%	51.12%
94	Binary Indicator of ICD10 Diagnosis Category Related To i34 Heart valve disorders	0.16%	51.29%
95	Average Number of Monthly Symptoms; signs; and ill-defined conditions and factors influencing health status Chronic Codes Per Month	0.16%	51.45%
96	Average Number of Monthly Diseases of the nervous system and sense organs Chronic Codes Per Month	0.16%	51.61%
97	Distinct Count of Diseases of the respiratory system Codes Per Month	0.16%	51.77%
98	Binary Indicator of ICD10 Diagnosis Category Related To z00 Medical examination/evaluation	0.16%	51.94%
99	Maximum Number of Inpatient Events	0.16%	52.09%
100	Binary Indicator of ICD10 Diagnosis Category Related To r10 Other perinatal conditions	0.16%	52.25%
101	Binary Indicator of ICD10 Diagnosis Category Related To a41 Septicemia (except in labor)	0.16%	52.41%
102	Binary Indicator of ICD10 Diagnosis Category Related To e11 Diabetes mellitus without complication	0.16%	52.57%
103	Binary Indicator of ICD10 Diagnosis Category Related To h40 Glaucoma	0.16%	52.73%
104	Distinct Count of Diseases of the blood and blood-forming organs Codes Per Month	0.16%	52.88%

105	Binary Indicator of ICD10 Diagnosis Category Related To j90 Pleurisy; pneumothorax; pulmonary collapse	0.16%	53.04%
106	Binary Indicator of ICD10 Diagnosis Category Related To g31 Other hereditary and degenerative nervous system conditions	0.16%	53.19%
107	Average Number of Diseases of the urinary system Codes Per Month	0.15%	53.35%
108	Binary Indicator of ICD10 Diagnosis Category Related To i02 Skin and subcutaneous tissue infections	0.15%	53.50%
109	Binary Indicator of ICD10 Diagnosis Category Related To r21 Other skin disorders	0.15%	53.66%
110	Maximum Number of Maximum Number of Outpatient Professional Events	0.15%	53.81%
111	Average Number of Monthly Other Significant Endocrine and Metabolic Disorders Codes Per Month	0.15%	53.96%
112	Binary Indicator of ICD10 Diagnosis Category Related To g43 Headache; including migraine	0.15%	54.11%
113	Average Number of Monthly Injury and poisoning Codes Per Month	0.15%	54.26%
114	Binary Indicator of ICD10 Diagnosis Category Related To b35 Mycoses	0.15%	54.41%
115	Binary Indicator of ICD10 Diagnosis Category Related To j81 Other lower respiratory disease	0.15%	54.56%
116	Average Number of Unique Other connective tissue disease [211.] Codes Per Month	0.15%	54.71%
117	Binary Indicator of ICD10 Diagnosis Category Related To h35 Retinal detachments; defects; vascular occlusion; and retinopathy	0.15%	54.86%
118	Binary Indicator of ICD10 Diagnosis Category Related To i35 Heart valve disorders	0.15%	55.01%
119	Binary Indicator of ICD10 Diagnosis Category Related To t14 Suicide and intentional self-inflicted injury	0.15%	55.16%
120	Binary Indicator of ICD10 Diagnosis Category Related To z71 Administrative/social admission	0.15%	55.31%
121	Average Number of Monthly Diseases of the skin and subcutaneous tissue Chronic Codes Per Month	0.15%	55.45%
122	Binary Indicator of ICD10 Diagnosis Category Related To h26 Cataract	0.15%	55.60%
123	Binary Indicator of ICD10 Diagnosis Category Related To j02 Other upper respiratory infections	0.15%	55.75%
124	Binary Indicator of ICD10 Diagnosis Category Related To k92 Other gastrointestinal disorders	0.15%	55.89%
125	Binary Indicator of ICD10 Diagnosis Category Related To g30 Delirium dementia and amnestic and other cognitive disorders	0.15%	56.04%
126	Maximum Number of Maximum Number of Emergency Department Events	0.15%	56.19%
127	Binary Indicator of ICD10 Diagnosis Category Related To r22 Other skin disorders	0.15%	56.33%
128	Binary Indicator of ICD10 Diagnosis Category Related To i63 Acute cerebrovascular disease	0.15%	56.48%
129	Binary Indicator of ICD10 Diagnosis Category Related To l57 Other skin disorders	0.14%	56.62%
130	Binary Indicator of ICD10 Diagnosis Category Related To e87 Fluid and electrolyte disorders	0.14%	56.76%
131	Binary Indicator of ICD10 Diagnosis Category Related To m21 Other acquired deformities	0.14%	56.91%
132	Binary Indicator of ICD10 Diagnosis Category Related To i65 Occlusion or stenosis of precerebral arteries	0.14%	57.05%
133	Binary Indicator of ICD10 Diagnosis Category Related To z13 Screening and history of mental health and substance abuse codes	0.14%	57.19%

134	Race=Asian	0.14%	57.33%
135	Average Number of Fractures Codes Per Month	0.14%	57.48%
136	Binary Indicator of ICD10 Diagnosis Category Related To m51 Spondylosis; intervertebral disc disorders; other back problems	0.14%	57.62%
137	Average Number of Distinct Monthly Diseases of the genitourinary system Chronic Codes Per Month	0.14%	57.76%
138	Binary Indicator of ICD10 Diagnosis Category Related To m12 Rheumatoid arthritis and related disease	0.14%	57.90%
139	Average Number of Cerebrovascular disease Codes Per Month	0.14%	58.04%
140	Average Number of Monthly Endocrine; nutritional; and metabolic diseases and immunity disorders Chronic Codes Per Month	0.14%	58.18%
141	Binary Indicator of ICD10 Diagnosis Category Related To j01 Other upper respiratory infections	0.14%	58.32%
142	Average Number of Unique Other nervous system disorders [95.] Codes Per Month	0.14%	58.46%
143	Average Number of Monthly Diseases of the respiratory system Codes Per Month	0.14%	58.60%
144	Binary Indicator of ICD10 Diagnosis Category Related To e53 Nutritional deficiencies	0.14%	58.73%
145	Binary Indicator of ICD10 Diagnosis Category Related To l82 Other skin disorders	0.14%	58.87%
146	Distinct Mental Health + Substance Abuse Month Count	0.14%	59.01%
147	Average Number of Monthly Specified Heart Arrhythmias Codes Per Month	0.14%	59.14%
148	Average Number of Unique Diabetes mellitus with complications [50.] Codes Per Month	0.14%	59.28%
149	Binary Indicator of ICD10 Diagnosis Category Related To j44 Chronic obstructive pulmonary disease and bronchiectasis	0.14%	59.41%
150	Binary Indicator of ICD10 Diagnosis Category Related To i12 Hypertension with complications and secondary hypertension	0.14%	59.55%
151	Binary Indicator of ICD10 Diagnosis Category Related To m17 Osteoarthritis	0.14%	59.68%
152	Average Number of Distinct Monthly Diseases of the musculoskeletal system and connective tissue Codes Per Month	0.14%	59.82%
153	Binary Indicator of ICD10 Diagnosis Category Related To z86 Tuberculosis	0.14%	59.95%
154	Average Number of Monthly Distinct Congestive Heart Failure Codes Per Month	0.14%	60.09%
155	Binary Indicator of ICD10 Diagnosis Category Related To r93 Other screening for suspected conditions (not mental disorders or infectious disease)	0.13%	60.22%
156	Average Number of Respiratory infections Codes Per Month	0.13%	60.36%
157	Average Number of Monthly Diseases of the blood and blood-forming organs Chronic Codes Per Month	0.13%	60.49%
158	Average Number of Chronic ulcer of skin [199.] Codes Per Month	0.13%	60.63%
159	Maximum Number of Monthly Distinct Providers	0.13%	60.76%
160	Distinct PCP Visits Month Count	0.13%	60.89%
161	Count of Diseases of the nervous system and sense organs Codes Per Month	0.13%	61.02%
162	Binary Indicator of ICD10 Diagnosis Category Related To r27 Other nervous system disorders	0.13%	61.16%

163	Average Number of Monthly ICD10 Code Diagnosis Categories	0.13%	61.29%
164	Binary Indicator of ICD10 Diagnosis Category Related To m20 Other acquired deformities	0.13%	61.42%
165	Binary Indicator of ICD10 Diagnosis Category Related To m06 Rheumatoid arthritis and related disease	0.13%	61.55%
166	Binary Indicator of ICD10 Diagnosis Category Related To e13 Diabetes mellitus without complication	0.13%	61.68%
167	Average Number of Factors influencing health care Codes Per Month	0.13%	61.81%
168	Inpatient Event Sum	0.13%	61.94%
169	Average Number of Diseases of female genital organs Codes Per Month	0.13%	62.07%
170	Binary Indicator of ICD10 Diagnosis Category Related To k44 Abdominal hernia	0.13%	62.20%
171	Binary Indicator of ICD10 Diagnosis Category Related To n20 Calculus of urinary tract	0.13%	62.33%
172	Dual Status=Qualified Medicare Beneficiary (QMB)-only	0.13%	62.46%
173	Binary Indicator of ICD10 Diagnosis Category Related To m81 Osteoporosis	0.13%	62.59%
174	Binary Indicator of ICD10 Diagnosis Category Related To k57 Diverticulosis and diverticulitis	0.13%	62.72%
175	Binary Indicator of ICD10 Diagnosis Category Related To s29 Sprains and strains	0.13%	62.85%
176	Binary Indicator of ICD10 Diagnosis Category Related To m46 Spondylosis; intervertebral disc disorders; other back problems	0.13%	62.98%
177	Binary Indicator of ICD10 Diagnosis Category Related To g45 Transient cerebral ischemia	0.13%	63.11%
178	Binary Indicator of ICD10 Diagnosis Category Related To z51 Other aftercare	0.13%	63.23%
179	Binary Indicator of ICD10 Diagnosis Category Related To k62 Gastrointestinal hemorrhage	0.13%	63.36%
180	Maximum Number of Maximum Number of Other Events	0.13%	63.49%
181	Binary Indicator of ICD10 Diagnosis Category Related To r11 Other gastrointestinal disorders	0.13%	63.62%
182	Binary Indicator of ICD10 Diagnosis Category Related To i73 Peripheral and visceral atherosclerosis	0.13%	63.74%
183	Binary Indicator of ICD10 Diagnosis Category Related To l85 Other skin disorders	0.13%	63.87%
184	Average Number of Average Number of Emergency Department Events	0.13%	64.00%
185	Binary Indicator of ICD10 Diagnosis Category Related To i49 Cardiac dysrhythmias	0.13%	64.13%
186	Binary Indicator of ICD10 Diagnosis Category Related To k94 Complications of surgical procedures or medical care	0.13%	64.25%
187	Average Number of Monthly Major Depressive, Bipolar, and Paranoid Disorders Codes Per Month	0.13%	64.38%
188	Average Number of Mood disorders [657] Codes Per Month	0.13%	64.51%
189	Binary Indicator of ICD10 Diagnosis Category Related To m85 Other bone disease and musculoskeletal deformities	0.13%	64.63%
190	Average Number of Distinct Monthly Injury and poisoning Codes Per Month	0.13%	64.76%
191	Binary Indicator of ICD10 Diagnosis Category Related To h61 Other ear and sense organ disorders	0.13%	64.89%
192	Binary Indicator of ICD10 Diagnosis Category Related To z01 Medical examination/evaluation	0.13%	65.01%
193	Average Number of Monthly Neoplasms Codes Per Month	0.13%	65.14%

194	Binary Indicator of ICD10 Diagnosis Category Related To m16 Osteoarthritis	0.13%	65.27%
195	Count of Operations on the cardiovascular system	0.13%	65.39%
196	Binary Indicator of ICD10 Diagnosis Category Related To m48 Spondylosis; intervertebral disc disorders; other back problems	0.13%	65.52%
197	Average Number of Distinct Monthly Diseases of the musculoskeletal system and connective tissue Chronic Codes Per Month	0.13%	65.64%
198	Binary Indicator of ICD10 Diagnosis Category Related To z45 Rehabilitation care; fitting of prostheses; and adjustment of devices	0.13%	65.77%
199	Binary Indicator of ICD10 Diagnosis Category Related To k63 Peritonitis and intestinal abscess	0.12%	65.89%
200	Binary Indicator of ICD10 Diagnosis Category Related To r52 Residual codes; unclassified	0.12%	66.02%
201	Average Number of Monthly Chronic kidney disease, moderate (stage 3) Codes Per Month	0.12%	66.14%
202	Average Number of Ear conditions Codes Per Month	0.12%	66.26%
203	Binary Indicator of ICD10 Diagnosis Category Related To z88 Allergic reactions	0.12%	66.39%
204	Binary Indicator of ICD10 Diagnosis Category Related To r82 Other injuries and conditions due to external causes	0.12%	66.51%
205	Binary Indicator of ICD10 Diagnosis Category Related To m15 Osteoarthritis	0.12%	66.63%
206	Average Number of Average Number of Other Events	0.12%	66.76%
207	Other Event Month Count	0.12%	66.88%
208	Count of Congenital anomalies Codes Per Month	0.12%	67.00%
209	Average Number of Symptoms; signs; and ill-defined conditions Codes Per Month	0.12%	67.12%
210	Binary Indicator of ICD10 Diagnosis Category Related To j18 Pneumonia (except that caused by tuberculosis or sexually transmitted disease)	0.12%	67.25%
211	Average Number of Fluid and electrolyte disorders [55.] Codes Per Month	0.12%	67.37%
212	Binary Indicator of ICD10 Diagnosis Category Related To r05 Other lower respiratory disease	0.12%	67.49%
213	Binary Indicator of ICD10 Diagnosis Category Related To f79 Developmental disorders	0.12%	67.61%
214	Binary Indicator of ICD10 Diagnosis Category Related To r29 Residual codes; unclassified	0.12%	67.73%
215	PCP Visits Month Count	0.12%	67.86%
216	Binary Indicator of ICD10 Diagnosis Category Related To m50 Spondylosis; intervertebral disc disorders; other back problems	0.12%	67.98%
217	Binary Indicator of ICD10 Diagnosis Category Related To l08 Skin and subcutaneous tissue infections	0.12%	68.10%
218	Average Number of Upper gastrointestinal disorders Codes Per Month	0.12%	68.22%
219	Distinct Count of Diseases of the digestive system Codes Per Month	0.12%	68.34%
220	Binary Indicator of ICD10 Diagnosis Category Related To l03 Skin and subcutaneous tissue infections	0.12%	68.46%
221	Binary Indicator of ICD10 Diagnosis Category Related To n40 Hyperplasia of prostate	0.12%	68.58%

222	Count of Injury and poisoning Codes Per Month	0.12%	68.70%
223	Distinct ICD10 Code Count for Mental Health + Substance Abuse	0.12%	68.82%
224	Binary Indicator of ICD10 Diagnosis Category Related To l60 Other skin disorders	0.12%	68.94%
225	Maximum Number of Home Events	0.12%	69.06%
226	Binary Indicator of ICD10 Diagnosis Category Related To f43 Anxiety disorders	0.12%	69.18%
227	Binary Indicator of ICD10 Diagnosis Category Related To m77 Other connective tissue disease	0.12%	69.30%
228	Average Number of Other skin disorders [200.] Codes Per Month	0.12%	69.42%
229	Binary Indicator of ICD10 Diagnosis Category Related To j32 Other upper respiratory infections	0.12%	69.54%
230	Binary Indicator of ICD10 Diagnosis Category Related To e66 Other nutritional; endocrine; and metabolic disorders	0.12%	69.66%
231	Binary Indicator of ICD10 Diagnosis Category Related To z96 Residual codes; unclassified	0.12%	69.78%
232	Binary Indicator of ICD10 Diagnosis Category Related To w01 External cause codes: Fall	0.12%	69.90%
233	Binary Indicator of ICD10 Diagnosis Category Related To k76 Other liver diseases	0.12%	70.02%
234	Binary Indicator of ICD10 Diagnosis Category Related To m47 Spondylosis; intervertebral disc disorders; other back problems	0.12%	70.14%
235	Binary Indicator of ICD10 Diagnosis Category Related To z48 Other aftercare	0.12%	70.25%
236	Average Number of Diseases of male genital organs Codes Per Month	0.12%	70.37%
237	Binary Indicator of ICD10 Diagnosis Category Related To m25 Other non-traumatic joint disorders	0.12%	70.49%
238	Medicare Status=Aged without end-stage renal disease (ESRD)	0.12%	70.61%
239	Distinct Specialist Visit Month Count	0.12%	70.72%
240	Binary Indicator of ICD10 Diagnosis Category Related To s00 Superficial injury; contusion	0.12%	70.84%
241	Binary Indicator of ICD10 Diagnosis Category Related To r41 Residual codes; unclassified	0.12%	70.96%
242	Average Number of Superficial injury; contusion [239.] Codes Per Month	0.12%	71.07%
243	Average Number of Monthly Coagulation Defects and Other Specified Codes Per Month	0.12%	71.19%
244	Maximum Number of Inpatient Professional Services Events	0.12%	71.31%
245	Binary Indicator of ICD10 Diagnosis Category Related To r73 Diabetes mellitus without complication	0.12%	71.42%
246	Binary Indicator of ICD10 Diagnosis Category Related To r09 Respiratory failure; insufficiency; arrest (adult)	0.12%	71.54%
247	Average Number of Monthly Diseases of the circulatory system Chronic Codes Per Month	0.12%	71.66%
248	Maximum Number of Lab Events	0.12%	71.77%
249	Binary Indicator of ICD10 Diagnosis Category Related To e55 Nutritional deficiencies	0.12%	71.89%
250	Binary Indicator of ICD10 Diagnosis Category Related To m70 Other connective tissue disease	0.12%	72.00%
251	Distinct Count of Diseases of the skin and subcutaneous tissue Codes Per Month	0.11%	72.12%
252	Binary Indicator of ICD10 Diagnosis Category Related To k22 Esophageal disorders	0.11%	72.23%

253	Average Number of Lab Events	0.11%	72.35%
254	Binary Indicator of ICD10 Diagnosis Category Related To z90 Residual codes; unclassified	0.11%	72.46%
255	Binary Indicator of ICD10 Diagnosis Category Related To e04 Thyroid disorders	0.11%	72.58%
256	Average Number of Unique Delirium dementia and amnestic and other cognitive disorders [653] Codes Per Month	0.11%	72.69%
257	Binary Indicator of ICD10 Diagnosis Category Related To z91 Suicide and intentional self-inflicted injury	0.11%	72.80%
258	Binary Indicator of ICD10 Diagnosis Category Related To l84 Other skin disorders	0.11%	72.92%
259	Binary Indicator of ICD10 Diagnosis Category Related To f41 Anxiety disorders	0.11%	73.03%
260	Average Number of Other connective tissue disease [211.] Codes Per Month	0.11%	73.14%
261	Average Number of Monthly Diseases of the digestive system Chronic Codes Per Month	0.11%	73.26%
262	Average Number of Monthly Rheumatoid Arthritis and Inflammatory Connective Tissue Disease Codes Per Month	0.11%	73.37%
263	Binary Indicator of ICD10 Diagnosis Category Related To f32 Mood disorders	0.11%	73.48%
264	Maximum Number of Monthly Chronic Conditions	0.11%	73.59%
265	Binary Indicator of ICD10 Diagnosis Category Related To z74 Administrative/social admission	0.11%	73.70%
266	Binary Indicator of ICD10 Diagnosis Category Related To r74 Other liver diseases	0.11%	73.81%
267	Binary Indicator of ICD10 Diagnosis Category Related To l81 Other skin disorders	0.11%	73.93%
268	Count of Diseases of the skin and subcutaneous tissue Codes Per Month	0.11%	74.04%
269	Average Number of Monthly Distinct Chronic Condition Count	0.11%	74.15%
270	Average Number of Unique Non-traumatic joint disorders Codes Per Month	0.11%	74.26%
271	Average Number of Asthma [128.] Codes Per Month	0.11%	74.36%
272	Average Number of Joint disorders and dislocations; trauma-related [225.] Codes Per Month	0.11%	74.47%
273	Binary Indicator of ICD10 Diagnosis Category Related To i95 Other circulatory disease	0.11%	74.58%
274	Average Number of Monthly Diseases of the digestive system Codes Per Month	0.11%	74.69%
275	Binary Indicator of ICD10 Diagnosis Category Related To z68 Residual codes; unclassified	0.11%	74.80%
276	Average Number of Nutritional deficiencies [52.] Codes Per Month	0.11%	74.91%
277	Distinct Count of Diseases of the genitourinary system Codes Per Month	0.11%	75.02%
278	Average Number of Distinct Monthly Diseases of the respiratory system Codes Per Month	0.11%	75.13%
279	Binary Indicator of ICD10 Diagnosis Category Related To h81 Conditions associated with dizziness or vertigo	0.11%	75.24%
280	Count of Mental Illness Codes Per Month	0.11%	75.35%
281	Binary Indicator of ICD10 Diagnosis Category Related To d69 Complications of surgical procedures or medical care	0.11%	75.46%
282	Binary Indicator of ICD10 Diagnosis Category Related To j30 Other upper respiratory disease	0.11%	75.57%
283	Binary Indicator of ICD10 Diagnosis Category Related To r79 Other screening for suspected conditions (not mental disorders or infectious disease)	0.11%	75.67%

284	Binary Indicator of ICD10 Diagnosis Category Related To j34 Other upper respiratory disease	0.11%	75.78%
285	Binary Indicator of ICD10 Diagnosis Category Related To z78 Residual codes; unclassified	0.11%	75.89%
286	Binary Indicator of ICD10 Diagnosis Category Related To f02 Delirium dementia and amnestic and other cognitive disorders	0.11%	76.00%
287	Binary Indicator of ICD10 Diagnosis Category Related To h04 Other eye disorders	0.11%	76.11%
288	Average Number of Distinct Monthly Endocrine; nutritional; and metabolic diseases and immunity disorders Chronic Codes Per Month	0.11%	76.22%
289	Average Number of Headache; including migraine [84.] Codes Per Month	0.11%	76.32%
290	Average Number of Unique Factors influencing health care Codes Per Month	0.11%	76.43%
291	Distinct Nurse Practitioner + Physician Assistant Visits Month Count	0.11%	76.54%
292	Average Number of Monthly Distinct Diabetes with Chronic Complications Codes Per Month	0.11%	76.65%
293	Binary Indicator of ICD10 Diagnosis Category Related To n18 Chronic kidney disease	0.11%	76.75%
294	Binary Indicator of ICD10 Diagnosis Category Related To r53 Paralysis	0.11%	76.86%
295	Average Number of Other lower respiratory disease [133.] Codes Per Month	0.11%	76.97%
296	Binary Indicator of ICD10 Diagnosis Category Related To w19 External cause codes: Fall	0.11%	77.07%
297	Maximum Number of Monthly Distinct Provider Types	0.11%	77.18%
298	Average Number of Spondylosis; intervertebral disc disorders; other back problems [205.] Codes Per Month	0.11%	77.29%
299	Average Number of Eye disorders Codes Per Month	0.11%	77.39%
300	Binary Indicator of ICD10 Diagnosis Category Related To m54 Spondylosis; intervertebral disc disorders; other back problems	0.11%	77.50%
301	Binary Indicator of ICD10 Diagnosis Category Related To k21 Esophageal disorders	0.10%	77.60%
302	Average Number of Distinct Monthly Unclassified Chronic Codes Per Month	0.10%	77.70%
303	Average Number of Distinct Monthly Diseases of the nervous system and sense organs Codes Per Month	0.10%	77.81%
304	Average Number of Monthly Diseases of the musculoskeletal system and connective tissue Codes Per Month	0.10%	77.91%
305	Binary Indicator of ICD10 Diagnosis Category Related To l30 Other skin disorders	0.10%	78.02%
306	Binary Indicator of ICD10 Diagnosis Category Related To s80 Superficial injury; contusion	0.10%	78.12%
307	Binary Indicator of ICD10 Diagnosis Category Related To r39 Genitourinary symptoms and ill-defined conditions	0.10%	78.23%
308	Distinct Count of Diseases of the musculoskeletal system and connective tissue Codes Per Month	0.10%	78.33%
309	Binary Indicator of ICD10 Diagnosis Category Related To z09 Other aftercare	0.10%	78.43%
310	Binary Indicator of ICD10 Diagnosis Category Related To i20 Coronary atherosclerosis and other heart disease	0.10%	78.53%
311	Binary Indicator of ICD10 Diagnosis Category Related To g56 Other nervous system disorders	0.10%	78.64%
312	Office Event Sum	0.10%	78.74%
313	Average Number of Monthly Acute Myocardial Infarction Codes Per Month	0.10%	78.84%

314	Binary Indicator of ICD10 Diagnosis Category Related To f33 Mood disorders	0.10%	78.95%
315	Binary Indicator of ICD10 Diagnosis Category Related To z98 Residual codes; unclassified	0.10%	79.05%
316	Binary Indicator of ICD10 Diagnosis Category Related To j20 Acute bronchitis	0.10%	79.15%
317	Binary Indicator of ICD10 Diagnosis Category Related To e86 Fluid and electrolyte disorders	0.10%	79.25%
318	Average Number of Monthly Distinct Specified Heart Arrhythmias Codes Per Month	0.10%	79.35%
319	Binary Indicator of ICD10 Diagnosis Category Related To n28 Other diseases of kidney and ureters	0.10%	79.45%
320	Binary Indicator of ICD10 Diagnosis Category Related To m10 Gout and other crystal arthropathies	0.10%	79.55%
321	Average Number of Other nutritional; endocrine; and metabolic disorders [58.] Codes Per Month	0.10%	79.66%
322	Binary Indicator of ICD10 Diagnosis Category Related To i11 Hypertension with complications and secondary hypertension	0.10%	79.76%
323	Binary Indicator of ICD10 Diagnosis Category Related To d62 Acute posthemorrhagic anemia	0.10%	79.86%
324	Binary Indicator of ICD10 Diagnosis Category Related To z85 Other non-epithelial cancer of skin	0.10%	79.96%
325	Average Number of Monthly Congestive Heart Failure Codes Per Month	0.10%	80.06%
326	Average Number of Monthly Unstable Angina and Other Acute Ischemic Heart Disease Codes Per Month	0.10%	80.16%
327	Binary Indicator of ICD10 Diagnosis Category Related To m43 Spondylosis; intervertebral disc disorders; other back problems	0.10%	80.26%
328	Facility Event Month Count	0.10%	80.36%
329	Average Number of Other upper respiratory disease [134.] Codes Per Month	0.10%	80.46%
330	Binary Indicator of ICD10 Diagnosis Category Related To i70 Peripheral and visceral atherosclerosis	0.10%	80.56%
331	Count of Diseases of the musculoskeletal system and connective tissue Codes Per Month	0.10%	80.66%
332	Binary Indicator of ICD10 Diagnosis Category Related To e03 Thyroid disorders	0.10%	80.76%
333	Binary Indicator of ICD10 Diagnosis Category Related To s09 Sprains and strains	0.10%	80.86%
334	Binary Indicator of ICD10 Diagnosis Category Related To m99 Spondylosis; intervertebral disc disorders; other back problems	0.10%	80.96%
335	Distinct Other Event Month Count	0.10%	81.05%
336	Average Number of Unique Diseases of the heart Codes Per Month	0.10%	81.15%
337	Average Number of Monthly Diseases of the nervous system and sense organs Codes Per Month	0.10%	81.25%
338	Binary Indicator of ICD10 Diagnosis Category Related To n32 Other diseases of bladder and urethra	0.10%	81.35%
339	Average Number of Unique Diabetes mellitus without complication [49.] Codes Per Month	0.10%	81.45%
340	Average Number of Monthly Diseases of the skin and subcutaneous tissue Codes Per Month	0.10%	81.55%
341	Binary Indicator of ICD10 Diagnosis Category Related To r31 Genitourinary symptoms and ill-defined conditions	0.10%	81.64%
342	Binary Indicator of ICD10 Diagnosis Category Related To i45 Conduction disorders	0.10%	81.74%
343	Binary Indicator of ICD10 Diagnosis Category Related To h93 Other ear and sense organ disorders	0.10%	81.84%

344	Average Number of Distinct Providers	0.10%	81.94%
345	Binary Indicator of ICD10 Diagnosis Category Related To i42 Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease)	0.10%	82.03%
346	Binary Indicator of ICD10 Diagnosis Category Related To z99 Respiratory failure; insufficiency; arrest (adult)	0.10%	82.13%
347	Distinct Count of Diseases of the nervous system and sense organs Codes Per Month	0.10%	82.23%
348	Average Number of Average Number of Total Events	0.10%	82.32%
349	Binary Indicator of ICD10 Diagnosis Category Related To i77 Other circulatory disease	0.10%	82.42%
350	Binary Indicator of ICD10 Diagnosis Category Related To r00 Heart valve disorders	0.10%	82.52%
351	Distinct ICD10 Code Count Associated With Nurse Practitioners + Physician Assistants	0.10%	82.61%
352	Maximum Number of Office Events	0.10%	82.71%
353	Average Number of Distinct Monthly Mental Illness Chronic Codes Per Month	0.10%	82.81%
354	Binary Indicator of ICD10 Diagnosis Category Related To d63 Deficiency and other anemia	0.10%	82.90%
355	Binary Indicator of ICD10 Diagnosis Category Related To f03 Delirium dementia and amnestic and other cognitive disorders	0.10%	83.00%
356	Average Number of Chronic obstructive pulmonary disease and bronchiectasis [127.] Codes Per Month	0.10%	83.09%
357	Maximum Number of Maximum Number of Total Events	0.10%	83.19%
358	Binary Indicator of ICD10 Diagnosis Category Related To k29 Gastritis and duodenitis	0.10%	83.29%
359	Average Number of Acquired deformities Codes Per Month	0.10%	83.38%
360	Binary Indicator of ICD10 Diagnosis Category Related To k31 Other disorders of stomach and duodenum	0.10%	83.48%
361	Average Number of Lower gastrointestinal disorders Codes Per Month	0.10%	83.57%
362	Binary Indicator of ICD10 Diagnosis Category Related To f31 Mood disorders	0.10%	83.67%
363	Average Number of Distinct Monthly Mental Illness Codes Per Month	0.10%	83.76%
364	Average Number of Gastrointestinal hemorrhage [153.] Codes Per Month	0.09%	83.86%
365	Binary Indicator of ICD10 Diagnosis Category Related To g25 Other hereditary and degenerative nervous system conditions	0.09%	83.95%
366	Average Number of Monthly Distinct Ischemic or Unspecified Stroke Codes Per Month	0.09%	84.05%
367	Race=White	0.09%	84.14%
368	Distinct Count of Diseases of the circulatory system Codes Per Month	0.09%	84.23%
369	Distinct Chronic Body System Category Count	0.09%	84.33%
370	Binary Indicator of ICD10 Diagnosis Category Related To j98 Pleurisy; pneumothorax; pulmonary collapse	0.09%	84.42%
371	Binary Indicator of ICD10 Diagnosis Category Related To m75 Other connective tissue disease	0.09%	84.51%
372	Binary Indicator of ICD10 Diagnosis Category Related To r20 Other nervous system disorders	0.09%	84.60%
373	Binary Indicator of ICD10 Diagnosis Category Related To g47 Residual codes; unclassified	0.09%	84.70%

374	Average Number of Monthly Symptoms; signs; and ill-defined conditions and factors influencing health status Codes Per Month	0.09%	84.79%
375	Average Number of Distinct Monthly Unclassified Codes Per Month	0.09%	84.88%
376	Average Number of Diseases of arteries; arterioles; and capillaries Codes Per Month	0.09%	84.97%
377	Binary Indicator of ICD10 Diagnosis Category Related To i82 Phlebitis; thrombophlebitis and thromboembolism	0.09%	85.07%
378	Binary Indicator of ICD10 Diagnosis Category Related To r26 Other nervous system disorders	0.09%	85.16%
379	Binary Indicator of ICD10 Diagnosis Category Related To r07 Other upper respiratory disease	0.09%	85.25%
380	Average Number of Unique Hypertension Codes Per Month	0.09%	85.34%
381	Maximum Number of Monthly ICD10 Codes	0.09%	85.43%
382	Binary Indicator of ICD10 Diagnosis Category Related To r19 Other upper respiratory disease	0.09%	85.52%
383	Distinct ICD10 Code Count Associated with Primary Care Physicians	0.09%	85.61%
384	Binary Indicator of ICD10 Diagnosis Category Related To j06 Other upper respiratory infections	0.09%	85.71%
385	Average Number of Monthly Chronic Ulcer of Skin, Except Pressure Codes Per Month	0.09%	85.80%
386	Average Number of Distinct Monthly Diseases of the digestive system Chronic Codes Per Month	0.09%	85.89%
387	Binary Indicator of ICD10 Diagnosis Category Related To i44 Conduction disorders	0.09%	85.98%
388	Maximum Number of Maximum Number of Outpatient Events	0.09%	86.07%
389	Count of Diseases of the circulatory system Codes Per Month	0.09%	86.16%
390	Average Number of Monthly ICD10 Codes	0.09%	86.25%
391	Average Number of Monthly Infectious and parasitic diseases Codes Per Month	0.09%	86.34%
392	Average Number of Delirium dementia and amnestic and other cognitive disorders [653] Codes Per Month	0.09%	86.43%
393	Binary Indicator of ICD10 Diagnosis Category Related To m62 Spondylosis; intervertebral disc disorders; other back problems	0.09%	86.52%
394	Binary Indicator of ICD10 Diagnosis Category Related To r42 Conditions associated with dizziness or vertigo	0.09%	86.61%
395	Distinct ICD10 Code Count In Facilities	0.09%	86.70%
396	Average Number of Monthly Vascular Disease Codes Per Month	0.09%	86.79%
397	Distinct Count of Unclassified Codes Per Month	0.09%	86.88%
398	Binary Indicator of ICD10 Diagnosis Category Related To i69 Late effects of cerebrovascular disease	0.09%	86.97%
399	Binary Indicator of ICD10 Diagnosis Category Related To s39 Sprains and strains	0.09%	87.06%
400	Count of Unclassified Codes Per Month	0.09%	87.15%
401	Average Number of Diabetes mellitus without complication [49.] Codes Per Month	0.09%	87.23%
402	Average Number of Distinct Monthly Diseases of the nervous system and sense organs Chronic Codes Per Month	0.09%	87.32%
403	Count of Diseases of the genitourinary system Codes Per Month	0.09%	87.41%
404	Binary Indicator of ICD10 Diagnosis Category Related To r13 Other gastrointestinal disorders	0.09%	87.50%

405	Average Number of Other bone disease and musculoskeletal deformities [212.] Codes Per Month	0.09%	87.58%
406	Binary Indicator of ICD10 Diagnosis Category Related To r56 Epilepsy; convulsions	0.09%	87.67%
407	Binary Indicator of ICD10 Diagnosis Category Related To i10 Essential hypertension	0.09%	87.76%
408	Binary Indicator of ICD10 Diagnosis Category Related To r94 Other screening for suspected conditions (not mental disorders or infectious disease)	0.09%	87.85%
409	Average Number of Immunity disorders [57.] Codes Per Month	0.09%	87.93%
410	Average Number of Distinct Monthly Diseases of the genitourinary system Codes Per Month	0.09%	88.02%
411	Average Number of Anemia Codes Per Month	0.09%	88.10%
412	Average Number of Monthly Chronic Conditions	0.09%	88.19%
413	Binary Indicator of ICD10 Diagnosis Category Related To r55 Syncope	0.09%	88.27%
414	Average Number of Unique Diseases of the urinary system Codes Per Month	0.09%	88.36%
415	Binary Indicator of ICD10 Diagnosis Category Related To g44 Headache; including migraine	0.09%	88.45%
416	Binary Indicator of ICD10 Diagnosis Category Related To n52 Other male genital disorders	0.09%	88.53%
417	Average Number of Office Events	0.08%	88.62%
418	Average Number of Monthly Chronic Obstructive Pulmonary Disease Codes Per Month	0.08%	88.70%
419	Average Number of Monthly Hemiplegia/Hemiparesis Codes Per Month	0.08%	88.78%
420	Average Number of Monthly Endocrine; nutritional; and metabolic diseases and immunity disorders Codes Per Month	0.08%	88.87%
421	Gender=Female	0.08%	88.95%
422	Binary Indicator of ICD10 Diagnosis Category Related To s81 Open wounds of extremities	0.08%	89.04%
423	Nurse Practitioner + Physician Assistant Visits Month Count	0.08%	89.12%
424	Specialist Visits Month Count	0.08%	89.20%
425	Average Number of Paralysis [82.] Codes Per Month	0.08%	89.29%
426	Average Number of Monthly Diseases of the genitourinary system Chronic Codes Per Month	0.08%	89.37%
427	Binary Indicator of ICD10 Diagnosis Category Related To z87 Screening and history of mental health and substance abuse codes	0.08%	89.45%
428	Binary Indicator of ICD10 Diagnosis Category Related To z43 Other upper respiratory disease	0.08%	89.54%
429	Average Number of Monthly Diseases of the musculoskeletal system and connective tissue Chronic Codes Per Month	0.08%	89.62%
430	Average Number of Monthly Unclassified Codes Per Month	0.08%	89.70%
431	Average Number of Monthly Mental Illness Codes Per Month	0.08%	89.78%
432	Binary Indicator of ICD10 Diagnosis Category Related To r14 Other gastrointestinal disorders	0.08%	89.87%
433	Binary Indicator of ICD10 Diagnosis Category Related To r40 Residual codes; unclassified	0.08%	89.95%
434	Average Number of Hypertension Codes Per Month	0.08%	90.03%
435	Binary Indicator of ICD10 Diagnosis Category Related To g93 Other nervous system disorders	0.08%	90.11%

436	Average Number of Monthly Diabetes without Complication Codes Per Month	0.08%	90.19%
437	Average Number of Distinct Monthly Diseases of the respiratory system Chronic Codes Per Month	0.08%	90.28%
438	Binary Indicator of ICD10 Diagnosis Category Related To z93 Residual codes; unclassified	0.08%	90.36%
439	Average Number of Open wounds Codes Per Month	0.08%	90.44%
440	Distinct ICD10 Code Count Associated with Specialist	0.08%	90.52%
441	Average Number of Monthly Diseases of the circulatory system Codes Per Month	0.08%	90.60%
442	Binary Indicator of ICD10 Diagnosis Category Related To k43 Abdominal hernia	0.08%	90.68%
443	Binary Indicator of ICD10 Diagnosis Category Related To r01 Heart valve disorders	0.08%	90.76%
444	Binary Indicator of ICD10 Diagnosis Category Related To k64 Hemorrhoids	0.08%	90.84%
445	Binary Indicator of ICD10 Diagnosis Category Related To z80 Residual codes; unclassified	0.08%	90.92%
446	Binary Indicator of ICD10 Diagnosis Category Related To d64 Deficiency and other anemia	0.08%	91.00%
447	Binary Indicator of ICD10 Diagnosis Category Related To i27 Pulmonary heart disease	0.08%	91.08%
448	Average Number of Distinct Provider Types	0.08%	91.16%
449	Maximum Number of Monthly Distinct ICD10 Code Diagnosis Categories	0.08%	91.24%
450	Average Number of Sprains and strains [232.] Codes Per Month	0.08%	91.32%
451	Binary Indicator of ICD10 Diagnosis Category Related To r50 Fever of unknown origin	0.08%	91.39%
452	Binary Indicator of ICD10 Diagnosis Category Related To h10 Other eye disorders	0.08%	91.47%
453	Average Number of Monthly Diseases of the blood and blood-forming organs Codes Per Month	0.08%	91.55%
454	Average Number of Unique Eye disorders Codes Per Month	0.08%	91.63%
455	Binary Indicator of ICD10 Diagnosis Category Related To h90 Other ear and sense organ disorders	0.08%	91.71%
456	Binary Indicator of ICD10 Diagnosis Category Related To z66 Residual codes; unclassified	0.08%	91.78%
457	Count of Endocrine; nutritional; and metabolic diseases and immunity disorders Codes Per Month	0.08%	91.86%
458	Dual Status=Specified Low-Income Medicare Beneficiary (SLMB)-only	0.08%	91.94%
459	Average Number of Mycoses [4.] Codes Per Month	0.08%	92.01%
460	Average Number of Unique Spondylosis; intervertebral disc disorders; other back problems [205.] Codes Per Month	0.08%	92.09%
461	Average Number of Monthly Diseases of the respiratory system Chronic Codes Per Month	0.08%	92.16%
462	Average Number of Monthly Ischemic or Unspecified Stroke Codes Per Month	0.08%	92.24%
463	Average Number of Monthly Inflammatory Bowel Disease Codes Per Month	0.08%	92.32%
464	Average Number of Non-traumatic joint disorders Codes Per Month	0.08%	92.39%
465	Binary Indicator of ICD10 Diagnosis Category Related To h52 Blindness and vision defects	0.08%	92.47%
466	Average Number of Unique Anemia Codes Per Month	0.08%	92.54%
467	Binary Indicator of ICD10 Diagnosis Category Related To z11 Immunizations and screening for infectious disease	0.07%	92.62%

468	Average Number of Other nervous system disorders [95.] Codes Per Month	0.07%	92.69%
469	Binary Indicator of ICD10 Diagnosis Category Related To w18 External cause codes: Struck by; against	0.07%	92.77%
470	Binary Indicator of ICD10 Diagnosis Category Related To h92 Other ear and sense organ disorders	0.07%	92.84%
471	Binary Indicator of ICD10 Diagnosis Category Related To e83 Other nutritional; endocrine; and metabolic disorders	0.07%	92.91%
472	Binary Indicator of ICD10 Diagnosis Category Related To l29 Other inflammatory condition of skin	0.07%	92.99%
473	Average Number of Monthly Artificial Openings for Feeding or Elimination Codes Per Month	0.07%	93.06%
474	Binary Indicator of ICD10 Diagnosis Category Related To l98 Skin and subcutaneous tissue infections	0.07%	93.13%
475	Inpatient Professional Services Event Sum	0.07%	93.21%
476	Binary Indicator of ICD10 Diagnosis Category Related To r91 Other lower respiratory disease	0.07%	93.28%
477	Binary Indicator of ICD10 Diagnosis Category Related To m41 Other bone disease and musculoskeletal deformities	0.07%	93.35%
478	Binary Indicator of ICD10 Diagnosis Category Related To m05 Rheumatoid arthritis and related disease	0.07%	93.43%
479	Binary Indicator of ICD10 Diagnosis Category Related To d22 Other and unspecified benign neoplasm	0.07%	93.50%
480	Binary Indicator of ICD10 Diagnosis Category Related To j96 Respiratory failure; insufficiency; arrest (adult)	0.07%	93.57%
481	Binary Indicator of ICD10 Diagnosis Category Related To h53 Blindness and vision defects	0.07%	93.64%
482	Binary Indicator of ICD10 Diagnosis Category Related To m65 Other connective tissue disease	0.07%	93.71%
483	Binary Indicator of ICD10 Diagnosis Category Related To k52 Other gastrointestinal disorders	0.07%	93.79%
484	Current Reason for Medicare Entitlement=Disability insurance benefits (DIB)	0.07%	93.86%
485	Average Number of Distinct Monthly Diseases of the circulatory system Chronic Codes Per Month	0.07%	93.93%
486	Binary Indicator of ICD10 Diagnosis Category Related To r03 Other circulatory disease	0.07%	94.00%
487	Binary Indicator of ICD10 Diagnosis Category Related To g80 Paralysis	0.07%	94.07%
488	Average Number of Monthly Diseases of the genitourinary system Codes Per Month	0.07%	94.13%
489	Count of Diseases of the respiratory system Codes Per Month	0.07%	94.20%
490	Binary Indicator of ICD10 Diagnosis Category Related To h18 Other eye disorders	0.07%	94.27%
491	Binary Indicator of ICD10 Diagnosis Category Related To m19 Osteoarthritis	0.07%	94.34%
492	Binary Indicator of ICD10 Diagnosis Category Related To l72 Other skin disorders	0.07%	94.41%
493	Race=Native_American	0.07%	94.48%
494	Binary Indicator of ICD10 Diagnosis Category Related To n95 Menopausal disorders	0.07%	94.55%
495	Binary Indicator of ICD10 Diagnosis Category Related To z72 Screening and history of mental health and substance abuse codes	0.07%	94.62%
496	Binary Indicator of ICD10 Diagnosis Category Related To z82 Residual codes; unclassified	0.07%	94.68%
497	Average Number of Immunizations and screening for infectious disease [10.] Codes Per Month	0.07%	94.75%
498	Binary Indicator of ICD10 Diagnosis Category Related To d72 Diseases of white blood cells	0.07%	94.82%

499	Binary Indicator of ICD10 Diagnosis Category Related To d18 Other and unspecified benign neoplasm	0.07%	94.89%
500	Race=Other	0.07%	94.96%
501	Binary Indicator of ICD10 Diagnosis Category Related To y92 External cause codes: Place of occurrence	0.07%	95.02%
502	Average Number of Unique Disorders of lipid metabolism [53.] Codes Per Month	0.07%	95.09%
503	Average Number of Monthly Unclassified Chronic Codes Per Month	0.07%	95.16%
504	Binary Indicator of ICD10 Diagnosis Category Related To h91 Other ear and sense organ disorders	0.07%	95.23%
505	Binary Indicator of ICD10 Diagnosis Category Related To r33 Genitourinary symptoms and ill-defined conditions	0.07%	95.29%
506	Binary Indicator of ICD10 Diagnosis Category Related To f51 Miscellaneous mental health disorders	0.07%	95.36%
507	Average Number of Distinct Monthly Symptoms; signs; and ill-defined conditions and factors influencing health status Codes Per Month	0.07%	95.42%
508	Average Number of Monthly Neoplasms Chronic Codes Per Month	0.07%	95.49%
509	Binary Indicator of ICD10 Diagnosis Category Related To n25 Other diseases of kidney and ureters	0.07%	95.55%
510	Average Number of Other injuries and conditions due to external causes [244.] Codes Per Month	0.06%	95.62%
511	Binary Indicator of ICD10 Diagnosis Category Related To n76 Inflammatory diseases of female pelvic organs	0.06%	95.68%
512	Binary Indicator of ICD10 Diagnosis Category Related To n17 Acute and unspecified renal failure	0.06%	95.75%
513	Average Number of Unique Immunity disorders [57.] Codes Per Month	0.06%	95.81%
514	Binary Indicator of ICD10 Diagnosis Category Related To r25 Other nervous system disorders	0.06%	95.87%
515	Average Number of Average Number of Outpatient Events	0.06%	95.94%
516	Binary Indicator of ICD10 Diagnosis Category Related To r59 Lymphadenitis	0.06%	96.00%
517	Count of Neoplasms Codes Per Month	0.06%	96.06%
518	Binary Indicator of ICD10 Diagnosis Category Related To i47 Cardiac dysrhythmias	0.06%	96.13%
519	Average Number of Unique Other bone disease and musculoskeletal deformities [212.] Codes Per Month	0.06%	96.19%
520	Binary Indicator of ICD10 Diagnosis Category Related To d51 Deficiency and other anemia	0.06%	96.25%
521	Binary Indicator of ICD10 Diagnosis Category Related To m72 Other connective tissue disease	0.06%	96.31%
522	Binary Indicator of ICD10 Diagnosis Category Related To n31 Other diseases of bladder and urethra	0.06%	96.37%
523	Binary Indicator of ICD10 Diagnosis Category Related To k58 Other gastrointestinal disorders	0.06%	96.44%
524	Binary Indicator of ICD10 Diagnosis Category Related To i89 Other diseases of veins and lymphatics	0.06%	96.50%
525	Average Number of Skin and subcutaneous tissue infections [197.] Codes Per Month	0.06%	96.56%
526	Binary Indicator of ICD10 Diagnosis Category Related To e88 Other nutritional; endocrine; and metabolic disorders	0.06%	96.62%
527	Binary Indicator of ICD10 Diagnosis Category Related To r80 Other diseases of kidney and ureters	0.06%	96.68%
528	Distinct Count of Endocrine; nutritional; and metabolic diseases and immunity disorders Codes Per Month	0.06%	96.74%
529	Count of Diseases of the digestive system Codes Per Month	0.06%	96.80%

530	Count of Diseases of the blood and blood-forming organs Codes Per Month	0.06%	96.86%
531	Binary Indicator of ICD10 Diagnosis Category Related To s51 Open wounds of extremities	0.06%	96.92%
532	Distinct Count of Mental Illness Codes Per Month	0.06%	96.97%
533	Binary Indicator of ICD10 Diagnosis Category Related To s06 Intracranial injury	0.06%	97.03%
534	Binary Indicator of ICD10 Diagnosis Category Related To d23 Other and unspecified benign neoplasm	0.06%	97.09%
535	Dual Status=Qualifying individuals (QI)	0.06%	97.14%
536	Mental Health + Substance Abuse Month Count	0.06%	97.20%
537	Average Number of Abdominal hernia [143.] Codes Per Month	0.06%	97.25%
538	Average Number of Miscellaneous mental disorders [670] Codes Per Month	0.06%	97.31%
539	Binary Indicator of ICD10 Diagnosis Category Related To g57 Other nervous system disorders	0.06%	97.36%
540	Average Number of Diseases of veins and lymphatics Codes Per Month	0.05%	97.42%
541	Binary Indicator of ICD10 Diagnosis Category Related To i36 Heart valve disorders	0.05%	97.47%
542	Race=Hispanic	0.05%	97.53%
543	Binary Indicator of ICD10 Diagnosis Category Related To r63 Other nutritional; endocrine; and metabolic disorders	0.05%	97.58%
544	Average Number of Developmental disorders [654] Codes Per Month	0.05%	97.63%
545	Average Number of Monthly Congenital anomalies Chronic Codes Per Month	0.05%	97.69%
546	Average Number of Distinct Monthly Endocrine; nutritional; and metabolic diseases and immunity disorders Codes Per Month	0.05%	97.74%
547	Average Number of Average Number of Outpatient Professional Events	0.05%	97.79%
548	Race=Unknown	0.05%	97.84%
549	Binary Indicator of ICD10 Diagnosis Category Related To d68 Coagulation and hemorrhagic disorders	0.05%	97.90%
550	Binary Indicator of ICD10 Diagnosis Category Related To h65 Otitis media and related conditions	0.05%	97.95%
551	Average Number of Unique Mood disorders [657] Codes Per Month	0.05%	98.00%
552	Binary Indicator of ICD10 Diagnosis Category Related To s46 Sprains and strains	0.05%	98.05%
553	Average Number of Monthly Seizure Disorders and Convulsions Codes Per Month	0.05%	98.10%
554	Binary Indicator of ICD10 Diagnosis Category Related To s01 Open wounds of head; neck; and trunk	0.05%	98.15%
555	Binary Indicator of ICD10 Diagnosis Category Related To z03 Other screening for suspected conditions (not mental disorders or infectious disease)	0.05%	98.20%
556	Binary Indicator of ICD10 Diagnosis Category Related To r23 Residual codes; unclassified	0.05%	98.25%
557	Average Number of Distinct Monthly Diseases of the circulatory system Codes Per Month	0.05%	98.30%
558	Binary Indicator of ICD10 Diagnosis Category Related To i21 Acute myocardial infarction	0.05%	98.35%
559	Binary Indicator of ICD10 Diagnosis Category Related To g81 Paralysis	0.05%	98.40%
560	Binary Indicator of ICD10 Diagnosis Category Related To z53 Residual codes; unclassified	0.05%	98.45%

561	Binary Indicator of ICD10 Diagnosis Category Related To m35 Systemic lupus erythematosus and connective tissue disorders	0.05%	98.49%
562	Binary Indicator of ICD10 Diagnosis Category Related To s19 Other injuries and conditions due to external causes	0.05%	98.54%
563	Binary Indicator of ICD10 Diagnosis Category Related To s22 Other fractures	0.05%	98.59%
564	Average Number of Distinct Monthly Diseases of the skin and subcutaneous tissue Chronic Codes Per Month	0.05%	98.63%
565	Binary Indicator of ICD10 Diagnosis Category Related To d53 Deficiency and other anemia	0.05%	98.68%
566	Binary Indicator of ICD10 Diagnosis Category Related To l89 Chronic ulcer of skin	0.05%	98.73%
567	Average Number of Monthly Distinct Vascular Disease Codes Per Month	0.04%	98.77%
568	Binary Indicator of ICD10 Diagnosis Category Related To b37 Septicemia (except in labor)	0.04%	98.81%
569	Binary Indicator of ICD10 Diagnosis Category Related To m24 Other non-traumatic joint disorders	0.04%	98.86%
570	Binary Indicator of ICD10 Diagnosis Category Related To s82 Fracture of lower limb	0.04%	98.90%
571	Binary Indicator of ICD10 Diagnosis Category Related To h66 Otitis media and related conditions	0.04%	98.94%
572	Average Number of Maintenance chemotherapy; radiotherapy [45.] Codes Per Month	0.04%	98.98%
573	Binary Indicator of ICD10 Diagnosis Category Related To n63 Nonmalignant breast conditions	0.04%	99.02%
574	Average Number of Unique Nutritional deficiencies [52.] Codes Per Month	0.04%	99.06%
575	Average Number of Inpatient Professional Services Events	0.04%	99.10%
576	Binary Indicator of ICD10 Diagnosis Category Related To e29 Other endocrine disorders	0.04%	99.14%
577	Binary Indicator of ICD10 Diagnosis Category Related To m71 Other connective tissue disease	0.04%	99.18%
578	Binary Indicator of ICD10 Diagnosis Category Related To z04 Screening and history of mental health and substance abuse codes	0.04%	99.22%
579	Binary Indicator of ICD10 Diagnosis Category Related To j43 Chronic obstructive pulmonary disease and bronchiectasis	0.04%	99.26%
580	Binary Indicator of ICD10 Diagnosis Category Related To r47 Other nervous system disorders	0.04%	99.30%
581	Binary Indicator of ICD10 Diagnosis Category Related To k82 Biliary tract disease	0.04%	99.34%
582	Binary Indicator of ICD10 Diagnosis Category Related To h60 Other ear and sense organ disorders	0.04%	99.38%
583	Binary Indicator of ICD10 Diagnosis Category Related To l40 Other inflammatory condition of skin	0.04%	99.41%
584	Binary Indicator of ICD10 Diagnosis Category Related To e21 Other endocrine disorders	0.04%	99.45%
585	Binary Indicator of ICD10 Diagnosis Category Related To s63 Sprains and strains	0.04%	99.49%
586	Binary Indicator of ICD10 Diagnosis Category Related To m96 Spondylosis; intervertebral disc disorders; other back problems	0.04%	99.52%
587	Binary Indicator of ICD10 Diagnosis Category Related To m89 Other bone disease and musculoskeletal deformities	0.04%	99.56%
588	Binary Indicator of ICD10 Diagnosis Category Related To x58 External cause codes: Natural/environment	0.04%	99.60%
589	Binary Indicator of ICD10 Diagnosis Category Related To z83 Residual codes; unclassified	0.04%	99.63%
590	Binary Indicator of ICD10 Diagnosis Category Related To n81 Prolapse of female genital organs	0.03%	99.66%

591	Binary Indicator of ICD10 Diagnosis Category Related To r92 Other screening for suspected conditions (not mental disorders or infectious disease)	0.03%	99.70%
592	Binary Indicator of ICD10 Diagnosis Category Related To z89 Other bone disease and musculoskeletal deformities	0.03%	99.73%
593	Binary Indicator of ICD10 Diagnosis Category Related To z08 Other aftercare	0.03%	99.76%
594	Binary Indicator of ICD10 Diagnosis Category Related To m13 Other non-traumatic joint disorders	0.03%	99.79%
595	Binary Indicator of ICD10 Diagnosis Category Related To h33 Retinal detachments; defects; vascular occlusion; and retinopathy	0.03%	99.82%
596	Count of Operations on the nervous system	0.03%	99.85%
597	Average Number of Viral infection Codes Per Month	0.02%	99.87%
598	Average Number of Monthly Distinct Major Depressive, Bipolar, and Paranoid Disorders Codes Per Month	0.02%	99.90%
599	Hospice Event Sum	0.02%	99.92%
600	Binary Indicator of ICD10 Diagnosis Category Related To i71 Aortic; peripheral; and visceral artery aneurysms	0.02%	99.94%
601	Binary Indicator of ICD10 Diagnosis Category Related To b07 Viral infection	0.02%	99.96%
602	Binary Indicator of ICD10 Diagnosis Category Related To r76 Immunizations and screening for infectious disease	0.02%	99.98%
603	Current Reason for Medicare Entitlement=Old age and survivor's insurance (OASI)	0.02%	99.99%
604	Binary Indicator of ICD10 Diagnosis Category Related To e27 Other endocrine disorders	0.01%	100.00%
605	30-Day Hospital Readmission Count	0.00%	100.00%

Data as a Decomposition of Population

Final state-of-the-art production model - XGBoost

Table G2. Feature Importances With Importance Type 'Gain'

Feature Ranking	Feature Name	Relative Feature Importance (%)	Cumulative Feature Importance (%)
1	Distinct Chronic Hierarchical Condition Category Month Count	19.08%	19.08%
2	Distinct Chronic Condition Count	8.80%	27.88%
3	Emergency Department Event Sum	6.79%	34.67%
4	Distinct Clinical Classification Software Category Month Count	5.79%	40.46%
5	Binary Indicator of ICD10 Diagnosis Category Related To z79 Other aftercare	4.33%	44.79%
6	Distinct Hierarchical Condition Category Month Count	4.26%	49.05%
7	Medicare Status=Disabled without ESRD	2.89%	51.94%
8	Total Event Sum	2.23%	54.17%
9	Age	2.13%	56.30%
10	Binary Indicator of ICD10 Diagnosis Category Related To i10 Essential hypertension	1.31%	57.61%
11	Average Number of Monthly Chronic Obstructive Pulmonary Disease Codes Per Month	1.22%	58.84%
12	Dual Status=Non-Medicaid	1.08%	59.91%
13	Binary Indicator of ICD10 Diagnosis Category Related To r56 Epilepsy; convulsions	1.07%	60.98%
14	Maximum Number of Monthly Distinct Chronic Condition Count	1.03%	62.02%
15	Outpatient Event Sum	0.93%	62.94%
16	Average Number of Monthly Cerebral Palsy Codes Per Month	0.81%	63.75%
17	Other Event Sum	0.79%	64.54%
18	Original reason for Medicare entitlement=Old age and survivor's insurance (OASI)	0.78%	65.32%
19	Count of Diseases of the skin and subcutaneous tissue Codes Per Month	0.76%	66.08%
20	Binary Indicator of ICD10 Diagnosis Category Related To r41 Residual codes; unclassified	0.76%	66.83%
21	Binary Indicator of ICD10 Diagnosis Category Related To i73 Peripheral and visceral atherosclerosis	0.74%	67.57%
22	90-Day Hospital Readmission Count	0.68%	68.25%

23	Home Event Sum	0.68%	68.93%
24	Binary Indicator of ICD10 Diagnosis Category Related To j06 Other upper respiratory infections	0.61%	69.53%
25	Distinct Count of Diseases of the skin and subcutaneous tissue Codes Per Month	0.59%	70.12%
26	Binary Indicator of ICD10 Diagnosis Category Related To n39 Urinary tract infections	0.58%	70.70%
27	Binary Indicator of ICD10 Diagnosis Category Related To g20 Parkinson`s disease	0.57%	71.27%
28	Binary Indicator of ICD10 Diagnosis Category Related To g25 Other hereditary and degenerative nervous system conditions	0.56%	71.83%
29	Binary Indicator of ICD10 Diagnosis Category Related To g30 Delirium dementia and amnestic and other cognitive disorders	0.55%	72.38%
30	Average Number of Monthly Parkinsonâ€™s and Huntingtonâ€™s Diseases Codes Per Month	0.54%	72.93%
31	Average Number of Monthly Ischemic or Unspecified Stroke Codes Per Month	0.54%	73.46%
32	Binary Indicator of ICD10 Diagnosis Category Related To r53 Paralysis	0.51%	73.97%
33	Binary Indicator of ICD10 Diagnosis Category Related To g40 Epilepsy; convulsions	0.50%	74.48%
34	60-Day Hospital Readmission Count	0.50%	74.98%
35	Maximum Number of Monthly Chronic Conditions	0.49%	75.47%
36	Binary Indicator of ICD10 Diagnosis Category Related To g50 Other nervous system disorders	0.49%	75.96%
37	Average Number of Symptoms; signs; and ill-defined conditions Codes Per Month	0.46%	76.42%
38	Binary Indicator of ICD10 Diagnosis Category Related To r82 Other injuries and conditions due to external causes	0.45%	76.87%
39	Dual Status=Multiple	0.45%	77.32%
40	Binary Indicator of ICD10 Diagnosis Category Related To f79 Developmental disorders	0.44%	77.76%
41	Average Number of Respiratory infections Codes Per Month	0.44%	78.20%
42	Average Number of Monthly Major Depressive, Bipolar, and Paranoid Disorders Codes Per Month	0.43%	78.63%
43	Binary Indicator of ICD10 Diagnosis Category Related To z93 Residual codes; unclassified	0.43%	79.07%
44	Dual Status=QMB and full Medicaid coverage, including prescription drugs	0.42%	79.49%
45	Binary Indicator of ICD10 Diagnosis Category Related To i35 Heart valve disorders	0.42%	79.91%
46	Binary Indicator of ICD10 Diagnosis Category Related To r11 Other gastrointestinal disorders	0.40%	80.31%
47	Distinct Mental Health Condition Count	0.38%	80.69%
48	Binary Indicator of ICD10 Diagnosis Category Related To z99 Respiratory failure; insufficiency; arrest (adult)	0.37%	81.06%
49	Binary Indicator of ICD10 Diagnosis Category Related To r60 Residual codes; unclassified	0.36%	81.42%
50	Binary Indicator of ICD10 Diagnosis Category Related To i70 Peripheral and visceral atherosclerosis	0.36%	81.78%
51	Average Number of Monthly Diseases of the genitourinary system Chronic Codes Per Month	0.35%	82.13%
52	Average Number of Distinct Monthly Diseases of the skin and subcutaneous tissue Chronic Codes Per Month	0.35%	82.48%
53	Binary Indicator of ICD10 Diagnosis Category Related To r10 Other perinatal conditions	0.35%	82.82%

54	Average Number of Monthly Diseases of the nervous system and sense organs Chronic Codes Per Month	0.34%	83.17%
55	Average Number of Diseases of the heart Codes Per Month	0.34%	83.51%
56	Binary Indicator of ICD10 Diagnosis Category Related To g62 Other nervous system disorders	0.34%	83.85%
57	Binary Indicator of ICD10 Diagnosis Category Related To f03 Delirium dementia and amnestic and other cognitive disorders	0.34%	84.18%
58	Binary Indicator of ICD10 Diagnosis Category Related To r13 Other gastrointestinal disorders	0.33%	84.52%
59	Race=Black	0.33%	84.85%
60	Average Number of Hereditary and degenerative nervous system conditions Codes Per Month	0.33%	85.18%
61	Binary Indicator of ICD10 Diagnosis Category Related To r42 Conditions associated with dizziness or vertigo	0.33%	85.51%
62	Binary Indicator of ICD10 Diagnosis Category Related To j45 Asthma	0.32%	85.83%
63	Binary Indicator of ICD10 Diagnosis Category Related To h25 Cataract	0.30%	86.13%
64	Gender=Female	0.27%	86.40%
65	Binary Indicator of ICD10 Diagnosis Category Related To m51 Spondylosis; intervertebral disc disorders; other back problems	0.27%	86.67%
66	Distinct Other Event Month Count	0.26%	86.93%
67	Binary Indicator of ICD10 Diagnosis Category Related To r30 Genitourinary symptoms and ill-defined conditions	0.26%	87.18%
68	Average Number of Diseases of the urinary system Codes Per Month	0.26%	87.44%
69	Distinct PCP Visits Month Count	0.26%	87.70%
70	Binary Indicator of ICD10 Diagnosis Category Related To z74 Administrative/social admission	0.25%	87.95%
71	Binary Indicator of ICD10 Diagnosis Category Related To g89 Other nervous system disorders	0.25%	88.20%
72	Binary Indicator of ICD10 Diagnosis Category Related To i50 Congestive heart failure; nonhypertensive	0.25%	88.44%
73	Average Number of Monthly Mental Illness Chronic Codes Per Month	0.24%	88.69%
74	Count of Unclassified Codes Per Month	0.24%	88.92%
75	Distinct Count of Diseases of the circulatory system Codes Per Month	0.24%	89.16%
76	Binary Indicator of ICD10 Diagnosis Category Related To t83 Complication of device; implant or graft	0.23%	89.40%
77	Distinct Count of Diseases of the respiratory system Codes Per Month	0.23%	89.63%
78	Gender=Male	0.22%	89.85%
79	Average Number of Monthly Cerebral Hemorrhage Codes Per Month	0.22%	90.07%
80	Hospice Event Sum	0.22%	90.29%
81	Average Number of Monthly Morbid Obesity Codes Per Month	0.21%	90.50%
82	Binary Indicator of ICD10 Diagnosis Category Related To r07 Other upper respiratory disease	0.21%	90.71%
83	Average Number of Non-traumatic joint disorders Codes Per Month	0.21%	90.92%
84	Binary Indicator of ICD10 Diagnosis Category Related To m81 Osteoporosis	0.21%	91.13%

85	Binary Indicator of ICD10 Diagnosis Category Related To j01 Other upper respiratory infections	0.21%	91.34%
86	Maximum Number of Monthly Distinct ICD10 Code Diagnosis Categories	0.21%	91.54%
87	Average Number of Monthly Diseases of the blood and blood-forming organs Chronic Codes Per Month	0.20%	91.75%
88	Count of Operations Related To Nonoperative removal of foreign body [229.]	0.20%	91.95%
89	Average Number of Distinct Monthly Diseases of the nervous system and sense organs Chronic Codes Per Month	0.20%	92.15%
90	Binary Indicator of ICD10 Diagnosis Category Related To g63 Other nervous system disorders	0.20%	92.35%
91	Skilled Nursing Facility Event Sum	0.20%	92.54%
92	Binary Indicator of ICD10 Diagnosis Category Related To z00 Medical examination/evaluation	0.19%	92.73%
93	Maximum Number of Maximum Number of Total Events	0.19%	92.92%
94	Binary Indicator of ICD10 Diagnosis Category Related To z46 Rehabilitation care; fitting of prostheses; and adjustment of devices	0.19%	93.11%
95	Binary Indicator of ICD10 Diagnosis Category Related To m54 Spondylosis; intervertebral disc disorders; other back problems	0.18%	93.29%
96	Binary Indicator of ICD10 Diagnosis Category Related To e11 Diabetes mellitus without complication	0.18%	93.46%
97	Binary Indicator of ICD10 Diagnosis Category Related To m20 Other acquired deformities	0.17%	93.64%
98	Binary Indicator of ICD10 Diagnosis Category Related To z12 Other screening for suspected conditions (not mental disorders or infectious disease)	0.17%	93.81%
99	Average Number of Monthly Injury and poisoning Codes Per Month	0.17%	93.98%
100	Inpatient Professional Services Event Sum	0.17%	94.15%
101	Binary Indicator of ICD10 Diagnosis Category Related To h92 Other ear and sense organ disorders	0.17%	94.32%
102	Binary Indicator of ICD10 Diagnosis Category Related To m10 Gout and other crystal arthropathies	0.17%	94.49%
103	Binary Indicator of ICD10 Diagnosis Category Related To d22 Other and unspecified benign neoplasm	0.17%	94.65%
104	Distinct Chronic Clinical Classification Software Category Month Count	0.16%	94.82%
105	Binary Indicator of ICD10 Diagnosis Category Related To r29 Residual codes; unclassified	0.16%	94.98%
106	Average Number of Monthly Distinct Parkinsonâ€™s and Huntingtonâ€™s Diseases Codes Per Month	0.16%	95.14%
107	Binary Indicator of ICD10 Diagnosis Category Related To h40 Glaucoma	0.16%	95.30%
108	Average Number of Lower gastrointestinal disorders Codes Per Month	0.15%	95.46%
109	Maximum Number of Monthly Distinct Providers	0.15%	95.61%
110	Race=Asian	0.15%	95.75%
111	Binary Indicator of ICD10 Diagnosis Category Related To m79 Other connective tissue disease	0.15%	95.90%
112	Binary Indicator of ICD10 Diagnosis Category Related To t50 Suicide and intentional self-inflicted injury	0.14%	96.04%
113	Office Event Sum	0.14%	96.18%
114	Maximum Number of Maximum Number of Emergency Department Events	0.14%	96.32%

115	Average Number of Monthly Diabetes with Chronic Complications Codes Per Month	0.13%	96.45%
116	Binary Indicator of ICD10 Diagnosis Category Related To l03 Skin and subcutaneous tissue infections	0.13%	96.58%
117	Binary Indicator of ICD10 Diagnosis Category Related To g43 Headache; including migraine	0.13%	96.71%
118	Total Number of Procedures	0.13%	96.84%
119	Dual Status=Qualified Medicare Beneficiary (QMB)-only	0.13%	96.96%
120	Binary Indicator of ICD10 Diagnosis Category Related To l82 Other skin disorders	0.12%	97.09%
121	Binary Indicator of ICD10 Diagnosis Category Related To n30 Urinary tract infections	0.12%	97.20%
122	Binary Indicator of ICD10 Diagnosis Category Related To e55 Nutritional deficiencies	0.11%	97.32%
123	Binary Indicator of ICD10 Diagnosis Category Related To i48 Cardiac dysrhythmias	0.10%	97.42%
124	Binary Indicator of ICD10 Diagnosis Category Related To l57 Other skin disorders	0.10%	97.52%
125	Binary Indicator of ICD10 Diagnosis Category Related To e13 Diabetes mellitus without complication	0.10%	97.62%
126	Binary Indicator of ICD10 Diagnosis Category Related To l60 Other skin disorders	0.10%	97.72%
127	Average Number of Spondylosis; intervertebral disc disorders; other back problems [205.] Codes Per Month	0.10%	97.82%
128	Binary Indicator of ICD10 Diagnosis Category Related To r26 Other nervous system disorders	0.10%	97.92%
129	Binary Indicator of ICD10 Diagnosis Category Related To z71 Administrative/social admission	0.10%	98.02%
130	Distinct ICD10 Code Count In Facilities	0.09%	98.11%
131	Binary Indicator of ICD10 Diagnosis Category Related To i83 Varicose veins of lower extremity	0.09%	98.20%
132	Binary Indicator of ICD10 Diagnosis Category Related To l97 Chronic ulcer of skin	0.09%	98.29%
133	Binary Indicator of ICD10 Diagnosis Category Related To g44 Headache; including migraine	0.09%	98.38%
134	Binary Indicator of ICD10 Diagnosis Category Related To i25 Other and ill-defined heart disease	0.09%	98.47%
135	Binary Indicator of ICD10 Diagnosis Category Related To f31 Mood disorders	0.09%	98.56%
136	Binary Indicator of ICD10 Diagnosis Category Related To i65 Occlusion or stenosis of precerebral arteries	0.09%	98.65%
137	Binary Indicator of ICD10 Diagnosis Category Related To s39 Sprains and strains	0.09%	98.74%
138	Binary Indicator of ICD10 Diagnosis Category Related To s01 Open wounds of head; neck; and trunk	0.09%	98.82%
139	Binary Indicator of ICD10 Diagnosis Category Related To k21 Esophageal disorders	0.08%	98.91%
140	Distinct Specialist Visit Month Count	0.08%	98.99%
141	Binary Indicator of ICD10 Diagnosis Category Related To e78 Other nutritional; endocrine; and metabolic disorders	0.08%	99.07%
142	Average Number of Unique Factors influencing health care Codes Per Month	0.08%	99.15%
143	Binary Indicator of ICD10 Diagnosis Category Related To d72 Diseases of white blood cells	0.07%	99.22%
144	Binary Indicator of ICD10 Diagnosis Category Related To i12 Hypertension with complications and secondary hypertension	0.07%	99.29%
145	Binary Indicator of ICD10 Diagnosis Category Related To r05 Other lower respiratory disease	0.07%	99.36%

146	Average Number of Monthly Congenital anomalies Chronic Codes Per Month	0.07%	99.43%
147	Binary Indicator of ICD10 Diagnosis Category Related To i47 Cardiac dysrhythmias	0.07%	99.49%
148	Average Number of Nutritional deficiencies [52.] Codes Per Month	0.06%	99.55%
149	Binary Indicator of ICD10 Diagnosis Category Related To s63 Sprains and strains	0.06%	99.61%
150	Binary Indicator of ICD10 Diagnosis Category Related To h43 Other eye disorders	0.06%	99.67%
151	Binary Indicator of ICD10 Diagnosis Category Related To f39 Mood disorders	0.05%	99.72%
152	Average Number of Monthly ICD10 Code Diagnosis Categories	0.05%	99.77%
153	Binary Indicator of ICD10 Diagnosis Category Related To g91 Other nervous system disorders	0.05%	99.82%
154	Binary Indicator of ICD10 Diagnosis Category Related To m48 Spondylosis; intervertebral disc disorders; other back problems	0.04%	99.86%
155	Binary Indicator of ICD10 Diagnosis Category Related To r35 Genitourinary symptoms and ill-defined conditions	0.04%	99.91%
156	Average Number of Diseases of male genital organs Codes Per Month	0.04%	99.95%
157	Average Number of Monthly Specified Heart Arrhythmias Codes Per Month	0.04%	99.98%
158	Average Number of Disorders of lipid metabolism [53.] Codes Per Month	0.01%	100.00%