

Appendix 1. Condition Categories

Variable	Label	Prevalence (%) FY23	Prevalence (%) FY24
Hematology			
drug_class_BL	Drug Class-Blood-related agents	12.80%	12.89%
HCC46	Severe Hematological Disorders	0.22%	0.23%
HCC48	Coagulation Defects and Other Specified Hematological Disorders	2.58%	2.77%

Oncology			
drug_class_AN	Drug Class-Antineoplastics	1.71%	1.73%
HCC10	Lymphoma and Other Cancers	0.92%	0.95%
HCC8	Metastatic Cancer and Acute Leukemia	1.16%	1.22%
HCC9	Lung and Other Severe Cancers	1.09%	1.13%
HCC11	Colorectal, Bladder, and Other Cancers	1.46%	1.51%
HCC12	Breast, Prostate, and Other Cancers and Tumors	3.86%	4.04%

Endocrinology			
drug_class_HS	Drug Class-Hormonal agents	31.15%	31.87%
HCC17	Diabetes with Acute Complications	0.21%	0.22%
HCC18	Diabetes with Chronic Complications	13.31%	13.50%
HCC19	Diabetes without Complication	9.63%	9.55%
HCC22	Morbid Obesity	3.53%	3.77%
HCC23	Other Significant Endocrine and Metabolic Disorders	2.28%	2.46%

Nutrition			
drug_class_RS	Drug Class-Electrolytes and nutrients	2.32%	2.39%
drug_class_TN	Drug Class-Vitamins	15.76%	16.39%
HCC21	Protein-Calorie Malnutrition	1.31%	1.48%
HCC188	Artificial Openings for Feeding or Elimination	0.65%	0.67%

Rheumatology			
drug_class_IM	Drug Class-Immune agents	2.17%	2.38%
HCC40	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	2.93%	3.12%
HCC47	Disorders of Immunity	0.89%	0.97%

Psychiatry			
cc28	Schizoaffective	0.55%	0.54%

cc29	Schizophrenia other	0.38%	0.37%
cc30	Paranoid schizophrenia	0.13%	0.12%
cc31	Psychoses NOS	0.24%	0.23%
cc32	Other psychotic disorders	0.13%	0.13%
cc33	Bipolar disorders	1.58%	1.60%
cc34	MDD with psychosis	0.30%	0.30%
cc35	MDD severe	1.22%	1.31%
cc36	MDD recurrent	8.25%	8.49%
cc37	MDD single episode	2.97%	2.57%
cc38	Depression NOS/NEC	1.59%	1.53%
cc39	MDD in remission	0.69%	0.70%
cc40	Dysthymia	0.35%	0.38%
cc41	Mood disorder NOS	1.83%	1.98%
cc42	Post traumatic stress disorder	15.30%	15.90%
cc43	Panic/agoraphobia	0.82%	0.82%
cc44	Generalized anxiety	4.77%	5.49%
cc45	Anxiety NOS/NEC	6.18%	6.63%
cc46	Personality disorder	0.73%	0.76%
cc47	Adjustment disorder	5.81%	6.42%
cc48	Conduct disorder	0.23%	0.23%
cc49	Major psychiatric disorder in remission	0.27%	0.27%
cc50	Other nonpsychotic	0.70%	0.75%
HCC57	Schizophrenia	1.20%	1.16%
HCC58	Reactive and Unspecified Psychosis	0.34%	0.34%
HCC59	Major Depressive, Bipolar, and Paranoid Disorders	15.45%	15.89%
HCC60	Personality Disorders	0.17%	0.17%
cc62	Other MH code	3.59%	4.14%
cc55	Pervasive developmental disorders	0.04%	0.05%
cc56	Phobias	0.19%	0.21%
cc57	Intellectual disability category	0.01%	0.01%
cc58	ADD	1.96%	2.29%

Substance Use Disorder

cc04	Alcohol Dependence	2.86%	2.90%
cc05	Alcohol Abuse	2.43%	2.44%
cc07	Alcohol Intoxication	0.25%	0.24%
cc08	Opioid Dependence/Abuse	0.94%	0.90%
cc10	Stimulant dependence	0.43%	0.44%
cc11	Stimulant abuse	0.33%	0.33%

cc13	Amphetamine dependence	0.34%	0.35%
cc14	Amphetamine abuse	0.27%	0.28%
cc15	Amphetamine use remission	0.05%	0.06%
cc16	Cannabis dependence	0.85%	0.89%
cc17	Cannabis abuse	1.51%	1.60%
cc19	Other specified drug dependence	0.10%	0.10%
cc20	Other specified drug abuse	0.09%	0.09%
cc22	Unspecified drug dependence	0.18%	0.18%
cc23	Unspecified drug abuse	0.47%	0.48%
cc25	Drug/alcohol withdrawal	0.69%	0.68%
HCC54	Substance Use with Psychotic Complications	0.31%	0.31%
HCC55	Substance Use Disorder, Moderate/Severe, or Substance Use with Complications	5.91%	5.96%
HCC56	Substance Use Disorder, Mild, Except Alcohol and Cannabis	0.33%	0.33%
cc64	Drug use dependence	1.48%	1.53%

Substance Use Disorder Remission

cc06	Alcohol Use Remission	1.14%	1.16%
cc09	Opioid use remission	0.18%	0.18%
cc12	Stimulant use remission	0.29%	0.30%
cc15	Amphetamine use remission	0.05%	0.06%
cc18	Cannabis use remission	0.13%	0.13%
cc21	Other specified drug use remission	0.03%	0.03%
cc24	Unspecified drug use remission	0.08%	0.08%
cc27	Nicotine use remission	0.73%	0.82%
cc63	Drug use remission	0.78%	0.80%

Tobacco

cc26	Nicotine dependence	12.87%	12.99%
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Neurology

drug_class_AU	Drug Class-Autonomic agents	3.25%	3.46%
cc01	Dementia	2.15%	2.15%
HCC51	Dementia With Complications	0.98%	1.15%
HCC52	Dementia Without Complication	2.13%	2.12%
HCC75	Myasthenia Gravis/Myoneural Disorders and Guillain-Barre Syndrome/Inflammatory and Toxic Neuropathy	0.50%	0.54%
HCC76	Muscular Dystrophy	0.03%	0.03%

HCC77	Multiple Sclerosis	0.31%	0.32%
HCC78	Parkinson's and Huntington's Diseases	1.16%	1.18%
HCC79	Seizure Disorders and Convulsions	1.66%	1.69%
HCC80	Coma, Brain Compression/Anoxic Damage	0.23%	0.22%
HCC99	Intracranial Hemorrhage	0.31%	0.33%
HCC100	Ischemic or Unspecified Stroke	2.19%	2.29%
HCC103	Hemiplegia/Hemiparesis	0.84%	0.86%
HCC104	Monoplegia, Other Paralytic Syndromes	0.07%	0.07%
HCC73	Amyotrophic Lateral Sclerosis and Other Motor Neuron Disease	0.07%	0.07%
HCC74	Cerebral Palsy	0.01%	0.01%
HCC70	Quadriplegia	0.22%	0.23%
HCC71	Paraplegia	0.15%	0.15%
HCC72	Spinal Cord Disorders/Injuries	0.46%	0.59%

Cardiovascular

drug_class_CV	Drug Class-Cardiovascular agents	51.66%	51.63%
HCC85	Congestive Heart Failure	6.87%	7.24%
HCC86	Acute Myocardial Infarction	1.31%	1.37%
HCC87	Unstable Angina and Other Acute Ischemic Heart Disease	0.57%	0.57%
HCC88	Angina Pectoris	1.63%	1.64%
HCC96	Specified Heart Arrhythmias	9.37%	9.70%
HCC84	Cardio-Respiratory Failure and Shock	2.60%	2.69%
HCC106	Atherosclerosis of the Extremities with Ulceration or Gangrene	0.32%	0.33%
HCC107	Vascular Disease with Complications	1.33%	1.41%
HCC108	Vascular Disease	6.72%	7.08%

Pulmonary

drug_class_other	Drug Class-Respiratory agents	15.22%	14.55%
HCC82	Respirator Dependence/Tracheostomy Status	0.24%	0.25%
HCC83	Respiratory Arrest	0.01%	0.01%
HCC110	Cystic Fibrosis	0.00%	0.00%
HCC111	Chronic Obstructive Pulmonary Disease	9.56%	9.54%
HCC112	Fibrosis of Lung and Other Chronic Lung Disorders	0.70%	0.75%
HCC114	Aspiration and Specified Bacterial Pneumonias	0.61%	0.64%
HCC115	Pneumococcal Pneumonia, Empyema, Lung Abscess	0.29%	0.30%

Nephrology			
HCC134	Dialysis Status	0.50%	0.50%
HCC135	Acute Renal Failure	3.07%	3.17%
HCC136	Chronic Kidney Disease, Stage 5	0.19%	0.20%
HCC137	Chronic Kidney Disease, Severe (Stage 4)	0.50%	0.53%
HCC138	Chronic Kidney Disease, Moderate (Stage 3)	3.65%	4.08%

Gastroenterology			
drug_class_GA	Drug Class-Gastrointestinal agents	32.60%	33.28%
HCC27	End-Stage Liver Disease	0.45%	0.45%
HCC28	Cirrhosis of Liver	0.91%	0.94%
HCC29	Chronic Hepatitis	0.65%	0.60%
HCC33	Intestinal Obstruction/Perforation	0.76%	0.81%
HCC34	Chronic Pancreatitis	0.24%	0.25%
HCC35	Inflammatory Bowel Disease	0.83%	0.85%

Infectious Diseases			
drug_class_AP	Drug Class-Antimalarials, Antiprotozoals	0.59%	0.61%
drug_class_AM	Drug Class-Antimicrobials	18.34%	18.90%
HCC2	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock	1.76%	1.87%
HCC1	HIV/AIDS	0.45%	0.44%
HCC6	Opportunistic Infections	0.17%	0.18%

Opthomology			
drug_class_OT	Drug Class-Otic agents	2.28%	2.36%
drug_class_OP	Drug Class-Ophthalmic agents	16.37%	17.05%
HCC122	Proliferative Diabetic Retinopathy and Vitreous Hemorrhage	0.43%	0.45%
HCC124	Exudative Macular Degeneration	0.67%	0.70%

Dermatology			
drug_class_DE	Drug Class-Topical agents	32.27%	33.51%
HCC157	Pressure Ulcer of Skin with Necrosis Through to Muscle, Tendon, or Bone	0.10%	0.10%

HCC158	Pressure Ulcer of Skin with Full Thickness Skin Loss	0.26%	0.28%
HCC159	Pressure Ulcer of Skin with Partial Thickness Skin Loss	0.25%	0.27%
HCC161	Chronic Ulcer of Skin, Except Pressure	0.90%	0.93%
HCC162	Severe Skin Burn or Condition	0.01%	0.01%

Orthopedic/Trauma

drug_class_MS	Drug Class-Musculoskeletal agents	26.54%	27.03%
HCC166	Severe Head Injury	0.01%	0.01%
HCC167	Major Head Injury	0.63%	0.66%
HCC169	Vertebral Fractures without Spinal Cord Injury	0.44%	0.49%
HCC170	Hip Fracture/Dislocation	0.29%	0.31%
HCC173	Traumatic Amputations and Complications	0.15%	0.15%
HCC39	Bone/Joint/Muscle Infections/Necrosis	0.78%	0.81%
HCC189	Amputation Status, Lower Limb/Amputation Complications	0.61%	0.63%

Social/Occupational

cc59	Homeless MH problems	0.17%	0.00%
cc60	Jobless MH problems	0.78%	0.87%
cc61	Occupational adjustment problems	0.14%	0.23%

Other

drug_class_GU	Drug Class-Genitourinary agents	15.02%	15.12%
drug_class_NT	Drug Class-Nose and throat agents	13.83%	14.76%
drug_class_AH	Drug Class-Antihistamines	17.19%	17.97%
cc52	Sexual dysfunction	1.48%	1.46%
cc53	Sleep	2.01%	2.32%
HCC176	Complications of Specified Implanted Device or Graft	1.02%	1.09%
HCC186	Major Organ Transplant or Replacement Status	0.22%	0.23%

Non-specific

drug_class_XA	Drug Class-Miscellaneous agents	19.62%	20.04%
drug_class_OR	Drug Class-Oral agents	3.43%	3.62%
drug_class_RE	Drug Class-Rectal solutions	17.63%	18.03%
drug_class_VT	Drug Class-Devices and supplies	29.95%	31.16%
drug_class_DX	Drug Class-Diagnostic agents	9.88%	9.27%
cc02	Organic Acute	0.38%	0.40%
cc03	Organic Other	0.25%	0.27%

cc51	Pain	0.22%	0.24%
cc54	Somatic other	0.61%	0.67%

Appendix 2 PBM Drug Classes

Code	Class
AD	ANTIDOTES, DETERRENTS AND POISON CONTROL
AH	ANTIHISTAMINES
AM	ANTIMICROBIALS
AN	ANTINEOPLASTICS
AP	ANTIPARASITICS
BL	BLOOD PRODUCTS/MODIFIERS/VOLUME EXPANDERS
CN	CENTRAL NERVOUS SYSTEM MEDICATIONS
CV	CARDIOVASCULAR MEDICATIONS
DE	DERMATOLOGICAL AGENTS
DX	DIAGNOSTIC AGENTS
GA	GASTROINTESTINAL MEDICATIONS
GU	GENITOURINARY MEDICATIONS
HA	HERBS/ALTERNATIVE THERAPIES
HS	HORMONES/SYNTHETICS/MODIFIERS
IM	IMMUNOLOGICAL AGENTS
IN	INVESTIGATIONAL AGENTS
IR	IRRIGATION/DIALYSIS SOLUTIONS
MS	MUSCULOSKELETAL MEDICATIONS
NT	NASAL AND THROAT AGENTS, TOPICAL
OP	OPHTHALMIC AGENTS
OT	OTIC AGENTS
PH	PHARMACEUTICAL AIDS/REAGENTS
RE	RESPIRATORY TRACT MEDICATIONS
RS	RECTAL, LOCAL
TN	THERAPEUTIC NUTRIENTS/MINERALS/ELECTROLYTES
VT	VITAMINS
XA	PROSTHETICS/SUPPLIES/DEVICES
XX	MISCELLANEOUS AGENTS