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| **Table 1: VTA Hierarchical Categorization Rules v 0.1**  **1st Level Category** | **2nd Level Category** | | | | | | | | | | | | **3rd Level Category (If applicable)** | | | | | | | | | | **Rule** | | | | |
| Conditions | | | | | Cardiovascular disease | | | | | | | | | | | | | | (OR,"Cardiovascular Disease","Ischemic heart disease","coronary artery disease","CAD","CVD","myocardial infarction") | | | | | | | | |
| Pain | | | | | | | | | (OR, "pain") | | | | | | | | | | | | | | |
| Respiratory  infection | | | | | | | | | (OR,"respiratory infection","influenza","flu","pneumonia","bronchitis","tuberculosis") | | | | | | | | | | | | | | |
| Stroke | | | | | | | | | (OR, "Stroke") | | | | | | | | | | | | | | |
| Neuropathy | | | | | | | | | (OR, "Neuropathy", "Peripheral neuropathy", "diabetic nerve pain", "distal polyneuropathy", "Proximal neuropathy", "diabetic amyotrophy", "Autonomic  neuropathy", "Focal neuropathy", "mononeuropathy") | | | | | | | | | | | | | | |
| Fractures | | | | | | | | | (OR, "fractures", "fracture", “broken bone", "osteoporosis",  "osteoperosis", "brittle", "bones") | | | | | | | | | | | | | | |
| Arthritis | | | | | | | | | (OR, "arthritis", "arthrits", "arhtritis", "gout", "joint  infections", "ankylosing spondylitis", "range of  motion") | | | | | | | | | | | | | | |
| Cancer | | | | | | | | | (OR, "cancer", "tumor", "malignancy", "melanoma",  "leukimna", "leukima", "luekima",  "leukema", "lymphoma") | | | | | | | | | | | | | | |
| Depression | | | | | | | | | (OR, "depression", "depressive", "mood disorder",  "suicidal thoughts") | | | | | | | | | | | | | | |
| Anxiety | | | | | | | | | (OR, "anxiety") | | | | | | | | | | | | | | |
| Opioid  Use Disorder | | | | | | | | | | | (OR, "opioid use disorder", "OUD", "medication-assisted treatment", "MAT", "Opioid Abuse", "Opioid Dependence", "opioid addiction", "opioid withdrawal", "opioid overdose") | | | | | | | | | | | | | | |
| Cognitive Impairment | | | | | | | | | | | (OR, "dementia", "cognitive impairment", "memory loss") | | | | | | | | | | | | | | |
| Gender | | | Female | | | | | | | | | | | | | | (OR,"she", "female", "her") | | | | | | | | |
| Demographics | | | | | | Male | | | | | | | | | | | | | | (OR,"he", "male", "him") | | | | | | | | |
| Race | | | | | | Asian | | | | | | | | | | | | | | (OR,"Asian","Chinese","Korean","Japanese") | | | | | | | | |
| Balck | | | | | | | | | | | | | | (OR,"Black","African American","POC",(AND,(OR,"Person","People"),"of Color")) | | | | | | | | | | | | | | |
| Caucasian | | | | | | | | | | | | | | (OR,"Caucasian","white") | | | | | | | | | | | | | | |
| Latino | | | | | | | | | | | | | | (OR,"Latino","mexican","latin American") | | | | | | | | | | | | | | |
| Income | | | | | | | | | | | | | | (OR, "low income", "low-income", "dual-eligible",  "dual-eligibles", "dual eligible", "dual  eligibles", "SEP", "Special Enrollment Period",  "LIS", "Low-income subsidy", "Low Income  Subsidy") | | | | | | | | | | | | | | |
| Age Group | | | | | | Under 65 | | | | | | | | | | | | | | (OR, "Under 65", "less than 65", "< 65") | | | | | | | | |
| Over 65 | | | | | | | | | | | | | | (OR, "Over 65", "65 plus", "65 +", "> 65") | | | | | | | | | | | | | | |
| Housing Status | | | | | | Single | | | | | | | | | | | | | | (OR, "Single", "widowed", "independent", "no spouse") | | | | | | | | |
| Married | | | | | | | | | | | | | | (OR, "married", "partnered", "spouse") | | | | | | | | | | | | | | |
| Caregiver Status | | | | | | | | | | | | | | (OR, "Needs caregiver," "independent") | | | | | | | | | | | | | | |
| Fee-for-service | | | | | | | | | | | | | | (OR,"FFS", "Fee for service", "Fee-for-service") | | | | | | | | | | | | | | |
| Medicare Programs | | | | | | | | Medicare Advantage | | | | | | | | | | | | | | (OR,"MA", "Medicare advantage") | | | | | | | | |
| Part A | | | | | | | | | | | | | | | (OR,"PART A","PART-A") | | | | | | | | | | | | | | | |
| Part B | | | | | | | | | | | | | | | (OR,"PART B","PART-B") | | | | | | | | | | | | | | | |
| Part C | | | | | | | | | | | | | | | (OR, "Medicare Part C", "Part C", "Part-C") | | | | | | | | | | | | | | | |
| Part D | | | | | | | | | | | | | | | (OR,"PART D","PART-D") | | | | | | | | | | | | | | | |
| Medications | | | | | | | | Anti -Depressants | | | | | | | | | | | | | | (OR,"citalopram","Celexa","escitalopram","Lexapro","fluoxetine","Prozac","Sarafe","Selfemra","Prozac Weekly","fluvoxamine","Luvox","paroxetine","Paxil","Paxil CR","Pexeva","sertraline","Zoloft","vortioxetine","Trintellix","Brintellix","vilazodone","Viibryd","Anti Depressant","Anti Depressants","Anti-Depressant","Anti-Depressants") | | | | | | | | |
| Opioids | | | | | | | | | | | | | | | (OR,"citalopram","Celexa","escitalopram","Lexapro","fluoxetine","Prozac","Sarafe","Selfemra","Prozac Weekly", "fluvoxamine","Luvox", "paroxetine","Paxil","Paxil CR","Pexeva","sertraline","Zoloft","vortioxetine","Trintellix","Brintellix","vilazodone","Viibryd","Anti Depressant", "Anti Depressants", "Anti-Depressant", "Anti-Depressants") | | | | | | | | | | | | | | | |
| Dosage | | | | | | | | | | | | | | | (OR,"MG","MME","morphine milligram equivalents") | | | | | | | | | | | | | | | |
| Name | | | | | | | | | | | | | | | (OR, "morphine", "oxycodone", "hydromorphone", "fentanyl", "buprenorphine") | | | | | | | | | | | | | | | |
| Policy Issues | | | | | | | | CARA | | | | | | | | | | | | | | (OR, "CARA," "Comprehensive Addiction and Recovery Act," "Implementation of the Comprehensive Addiction and Recovery Act of 2016 (CARA) Provisions") | | | | | | | | |
| Drug Management Programs | | | | | | | | | | | | (OR, "drug management programs”, "DMPs", "DMP") | | | | | | | | | | | | | | |
| Clinical  Guidelines | | | | | | | | | | | | (OR, "beneficiaries at risk for prescription drug abuse or misuse," "at-risk beneficiaries") | | | | | | | | | | | | | | |
| Case  Management | | | | | | | | | | | | (OR, "case management", "care management") | | | | | | | | | | | | | | |
| CMS  Frequently Abused Drugs List | | | | | | | | | | | | (OR, "CMS frequently abused drugs") | | | | | | | | | | | | | | |
| Access | | | | | | | | | | | | (OR, "access") | | | | | | | | | | | | | | |
| Pharmacy  Access | | | | | | | | | | | | (OR, "pharmacy access") | | | | | | | | | | | | | | |
| Special Enrollment Period (SEP) for low Income  Subsidy (LIS) and dual-eligibles | | | | | | | | | | | | (OR, "dual-eligible", "dual-eligibles", "dual eligible", "dual eligibles", "SEP", "Special Enrollment Period", "LIS", "Low-income subsidy", "Low Income Subsidy") | | | | | | | | | | | | | | |
| Cost | | | | | | | | | | | | (OR, "Increased costs", "increase costs", "costs", "cost") | | | | | | | | | | | | | | |
| Provider | | | | SNF | | | | | | | | | | | | | | (OR, "Skilled nursing facility") | | | | | | | | |
| Nurse  Anesthetists | | | | | | | | (OR, "American Association of Nurse Anesthetists," "AANA" ) | | | | | | | | | | | | | |
| Addiction  Medicine | | | | | | | | (OR, "American Society of Addiction Medicine") | | | | | | | | | | | | | |
| Healthcare Stakeholders | | | | | | | Payer | | | | | | | | | | | | | | (OR, "health plans", "medicare advantage drug plans", "MAPDs", "MAPD", "prescription drug plan", "PDPs", "payer", "payor", "insurer", "insurance plan", "blue cross", "blue shield", "blues", "BCBSs", "BCBS", "Employer group waiver plans", "EGWPs", "cigna", "humana", "aetna", "highmark", "united health group", "UHG", "Anthem", "Centene", "Molina", "Wellcare") | | | | | | | | |
| Pharmacy | | | | | | | | | | (OR, "pharmacy", "home infusion", "specialty pharmacy", "drug maker", "drug manufacturer", "pharmaceutical company", "pharmaceutical", "biopharma",  biotechnology") | | | | | | | | | | | | | | |
| Pharmacy  Benefit Manager | | | | | | | | | | (OR, "pharmacy benefit manager", "PBM") | | | | | | | | | | | | | | |
| Medicare  Administrative Contractors | | | | | | | | | | (OR, "medicare administrative contractor", "MAC") | | | | | | | | | | | | | | |
| Government | | Indian Health Services | | | | | | | | | | | | | | (OR, "Tribal Self-Governance Advisory Committee," "TSGAC," "American Indian," "Alaska Native," "IHS," "Tribal health programs") | | | | | | | | |
| City/State  Health Dept. | | | | | | | | | | (OR, "Department of Health") | | | | | | | | | | | | | | |
| PACE | | | | | | | | | | (OR, "PACE") | | | | | | | | | | | | | | |
| Technology | | | | | | | | | | (OR, "EHR", "Electronic health record", "EHR", "electronic medical record", "EMR", "electronic prior authorization", "ePA") | | | | | | | | | | | | | | |