**PCP VA Triggers**

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| **Red Flag (Inclusion Criteria)** | | |
| Record included if any of the following criteria are identified during in the time period – 20XX to 20XX | | |
|  | **Criteria** | **Timeframe** |
| Trigger 1 | Unexpected hospitalization after PCP visit | Within 14 days  (0-14 days) |
| Trigger 2 | Death after PCP visit | Within 30 days  (0-30 days) |
|  | AND |  |
|  | Charlson Comorbidity Index < = 3 |  |

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| **Clinical Exclusion Criteria** | | | |
| Record excluded if any of the following criteria are identified during the pre-specified time frame | | | |
|  | **Criteria** | **Timeframe** | **ICD/CPT/CCS/LOINC codes** |
|  | Age< 18 and >85 | PRIOR to index visit date |  |
|  | More than 3 hospitalizations/ER visit | Within 1 year PRIOR to index visit date |  |
|  | Hospice | Within 1 year PRIOR to index visit date | Z51.5 |
|  | Palliative medicine | Within 1 year PRIOR to index visit date | Z51.5 |
|  | Skilled nursing facility (SNF) | Within 1 year PRIOR to index visit date |  |
|  | Long-term acute care hospitals (LTACHs) | Within 1 year PRIOR to index visit date |  |
|  | Admission and Discharge date are the same | On admission date |  |
|  | Planned surgery (Table 1) | On admission date |  |
|  | Admission due to behavioral health/Mental illness (admitted to a Psych floor) (Table 2) | On admission date |  |
|  | Admission due to External Causes (Including Accident/Trauma/Injuries) (Table 3) | On admission date and on Index visit date |  |
|  | Terminal illnesses (based on 5-yr survival rates) (Table 4) | Within 1 year PRIOR to index visit date |  |
|  | Acute Dx at Index visit date (Table 5) | On index visit date |  |

**Tables**

**Table 1 Planned surgery**

|  |  |
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| **Description** | **AHRQ CCS codes** |
| **Procedure Categories that are always planned** | |
| * Bone marrow transplant | 64 |
| * Kidney transplant | 105 |
| * Other organ transplantation (other than bone marrow corneal or kidney) | 176 |
| **Diagnosis Categories that are always planned** | |
| * Maintenance chemotherapy; radiotherapy | 45 |
| * Rehabilitation care; fitting of prostheses; and adjustment of devices | 254 |
| **Potentially Planned Procedures** | |
| * Incision and excision of CNS | 1 |
| * Insertion; replacement; or removal of extracranial ventricular shunt | 2 |
| * Excision destruction or resection of intervertebral disc | 3 |
| * Insertion of catheter or spinal stimulator and injection into spinal canal | 5 |
| * Other OR therapeutic nervous system procedures | 9 |
| * Thyroidectomy; partial or complete | 10 |
| * Therapeutic endocrine procedures | 12 |
| * Other OR procedures on mouth and throat | 33 |
| * Tracheoscopy and laryngoscopy with biopsy | 35 |
| * Lobectomy or pneumonectomy | 36 |
| * Other diagnostic procedures on lung and bronchus | 38 |
| * Other diagnostic procedures on the respiratory system and mediastinum | 40 |
| * Other OR Rx procedures on respiratory system and mediastinum | 42 |
| * Heart valve procedures | 43 |
| * Coronary artery bypass graft (CABG) | 44 |
| * Percutaneous transluminal coronary angioplasty (PTCA) with or without stent placement | 45 |
| * Other OR heart procedures | 49 |
| * Endarterectomy; vessel of head and neck | 51 |
| * Aortic resection; replacement or anastomosis | 52 |
| * Varicose vein stripping; lower limb | 53 |
| * Peripheral vascular bypass | 55 |
| * Other vascular bypass and shunt; not heart | 56 |
| * Other OR procedures on vessels of head and neck | 59 |
| * Procedures on spleen | 66 |
| * Other procedures; hemic and lymphatic systems | 67 |
| * Gastrectomy; partial and total | 74 |
| * Colorectal resection | 78 |
| * Excision (partial) of large intestine (not endoscopic) | 79 |
| * Cholecystectomy and common duct exploration | 84 |
| * Inguinal and femoral hernia repair | 85 |
| * Other hernia repair | 86 |
| * Excision; lysis peritoneal adhesions | 90 |
| * Other OR upper GI therapeutic procedures | 94 |
| * Other non-OR lower GI therapeutic procedures | 95 |
| * Other OR lower GI therapeutic procedures | 96 |
| * Other non-OR gastrointestinal therapeutic procedures | 98 |
| * Other OR gastrointestinal therapeutic procedures | 99 |
| * Nephrotomy and nephrostomy | 103 |
| * Nephrectomy; partial or complete | 104 |
| * Genitourinary incontinence procedures | 106 |
| * Extracorporeal lithotripsy; urinary | 107 |
| * Procedures on the urethra | 109 |
| * Other non-OR therapeutic procedures of urinary tract | 111 |
| * Other OR therapeutic procedures of urinary tract | 112 |
| * Transurethral resection of prostate (TURP) | 113 |
| * Open prostatectomy | 114 |
| * Oophorectomy; unilateral and bilateral | 119 |
| * Other OR therapeutic procedures; male genital | 118 |
| * Other operations on ovary | 120 |
| * Other operations on fallopian tubes | 123 |
| * Hysterectomy; abdominal and vaginal | 124 |
| * Other excision of cervix and uterus | 125 |
| * Repair of cystocele and rectocele; obliteration of vaginal vault | 129 |
| * Other OR therapeutic procedures; female organs | 132 |
| * Partial excision bone | 142 |
| * Fracture treatment including reposition with or without fixation; hip or femur fracture or dislocation | 146 |
| * Fracture treatment including reposition with or without fixation; lower extremity fracture or dislocation (other than hip or femur) | 147 |
| * Fracture treatment including reposition with or without fixation of other fracture or or dislocation | 148 |
| * Arthroplasty knee | 152 |
| * Hip replacement; total and partial | 153 |
| * Arthroplasty other than hip or knee | 154 |
| * Spinal fusion | 158 |
| * Other diagnostic procedures on musculoskeletal system | 159 |
| * Other therapeutic procedures on muscles and tendons | 160 |
| * Other OR therapeutic procedures on bone | 161 |
| * Other non-OR therapeutic procedures on musculoskeletal system | 163 |
| * Other OR therapeutic procedures on musculoskeletal system | 164 |
| * Lumpectomy; quadrantectomy of breast | 166 |
| * Mastectomy | 167 |
| * Skin graft | 172 |
| * Other non-OR therapeutic procedures on skin subcutaneous tissue fascia and breast | 174 |
| * Other OR therapeutic procedures on skin subcutaneous tissue fascia and breast | 175 |
|  |  |
| * Radiation therapy | 211 |
| * Psychological and psychiatric evaluation and therapy | 218 |
| * Cancer chemotherapy | 224 |

**Table 2 Admission due to behavioral health/Mental illness (admitted to a Psych floor)**

|  |  |
| --- | --- |
| **Description** | **ICD/CPT/CCS/LOINC codes** |
| * Suicide and intentional self-inflicted injury |  |
| * Psych condition with Delirium |  |
| * Psych condition with Delusion |  |
| * Psych condition with Hallucinations |  |
| * Psych condition with Seizures |  |
| * Intoxications |  |
| * Psych condition with severe symptoms |  |
| * Withdrawal |  |

**Table 3 Admission due to External causes**

|  |  |
| --- | --- |
| **Description** | **ICD/CPT/CCS/LOINC codes** |
| * Motor vehicle accident (MVA) |  |
| * Bites |  |
| * Fractures |  |
| * Poisoning |  |
| * Injuries |  |
| * Burns |  |
| * Drowning |  |
| * Foreign body |  |

**Table 4 Terminal illnesses (based on 5-yr survival rates)**

|  |  |
| --- | --- |
| **Description** | **ICD/CPT/CCS/LOINC codes** |
| * Lung cancer |  |
| * Pancreatic cancer |  |
| * Pleural Cancer & Mesothelioma |  |
| * Leukemia (Acute only – ALL excluded) |  |
| * Hepatocellular and intrahepatic bile duct cancer |  |
| * Gallbladder and Biliary cancers |  |
| * Esophageal cancer |  |
| * Gastric cancer |  |
| * Brain cancer |  |
| * Uterine Cancer |  |
| * Ovarian cancer |  |
| * Peritoneal, Omental & Mesenteric Cancer |  |
| * Myeloma |  |
| * Tracheal Cancer |  |
| * End stage disease |  |

**Table 5 Acute/High-Risk condition Dx at Index visit date that lead to ER visit or hospitalization**

|  |  |
| --- | --- |
| **Description** | **ICD/CPT/CCS/LOINC codes** |
| * Acute MI |  |
| * Endocarditis |  |
| * Ventricular Tachycardia |  |
| * Stroke/TIA |  |
| * Delirium |  |
| * Meningitis |  |
| * Encephalitis |  |
| * Sepsis |  |
| * Shock |  |
| * Gangrene |  |
| * Empyema |  |
| * Pneumothorax |  |
| * Pulmonary edema |  |
| * Pulmonary embolism |  |
| * Respiratory failure |  |
| * Mesenteric ischemia |  |
| * GI hemorrhage |  |
| * Cholecystitis |  |
| * Bowel obstruction |  |
| * Acute GI ulcers |  |
| * Acute GI perforation |  |
| * Pancreatitis |  |
| * Peritonitis |  |
| * Intestinal abscess |  |
| * Acute renal failure |  |
| * Aortic dissection |  |

**References**

Planned admission and acute diagnoses

Horwitz LI, Grady JN, Cohen DB, et al. Development and Validation of an Algorithm to Identify Planned Readmissions From Claims Data. J Hosp Med. 2015;10(10):670–677. doi:10.1002/jhm.2416