**Appendix**

**Definition of Diagnosis-related Risk Factors**

Much of this is based on the Clinical Classification Software and related ICD9 diagnoses. For details, see article and Appendix 1 of Cowen ME, Strawderman RL, Czerwinski JL, Smith MJ, Halasyamani LK. Mortality predictions on admission as a context for organizing care activities. J Hosp Med, 2013;8:229–235.

| **Risk Factor** | **Definition provided if user clicked to learn details** | **Information shown via Mouse Over** |
| --- | --- | --- |
| Currently have or receiving treatment for ***Respiratory Failure*** | Definition of Respiratory Failure: ARDS, Acute respiratory distress, Post-traumatic or post-surgical respiratory insufficiency, “shock lung”, acute respiratory failure, acute and chronic respiratory failure, chronic respiratory failure, respiratory arrest | Respiratory Failure that is present on admission, an active issue requiring attention this hospitalization. If the patient is on home O2, answer Yes. |
| Currently have or receiving treatment for ***Heart Failure*** | Definition of Heart Failure: Congestive heart failure, systolic heart failure, acute or chronic, diastolic heart failure, acute pulmonary edema with heart failure, right heart failure secondary to left heart failure | Heart Failure, current exacerbation of heart failure or on chronic medications for heart failure. If there is direct documentation of Heart Failure OR if the patient is on [furosemide] or [Bumetanide], answer Yes. |
| Currently have or receiving treatment for an ***Injury***  | Definition of Injury: Joint disorders and dislocations, trauma-related; Fracture of neck of femur (hip); Spinal cord injury; Skull and face fractures; Fracture of upper limb; Fracture of lower limb; Other fractures; Sprains and strains; Intracranial injury; Crushing injury or internal injury; Open wounds of head, neck, and trunk; Open wounds of extremities; Superficial injury, contusion; Burns; Other injuries and conditions due to external causes; Cut pierce; Fall; Fire/burn; Firearm | Injury, present on admission, an active issue requiring attention |
| Currently have or receiving treatment for ***Sepsis***  | Definition of Sepsis: Septicemia, bacteremia, systemic inflammatory response syndrome (SIRS), sepsis, severe sepsis, septic shock | Sepsis, present on admission, an active issue requiring attention this hospitalization |
| Current or past history of ***Atrial Fibrillation*** | Definition of Atrial Fibrillation: Atrial fibrillation, atrial flutter | Current or history of Atrial Fibrillation. If able to determine a history of Atrial Fibrillation but not able to determine a timeframe, answer Yes. |
| Current or past history of ***Metastatic Cancer*** (regardless whether or not leukemia or lymphoma also present): | Definition of Metastatic Cancer (regardless whether or not leukemia or lymphoma also present): Metastases to bone, brain, lung, malignant ascites, malignant pleural effusion | Current or history of Metastatic Cancer requiring treatment or management. If able to determine a history of Metastatic Cancer but not able to determine a timeframe, answer Yes. |
| Current or past history of ***Solid-Tumor Cancer*** (answer No if metastatic cancer or lymphoma, leukemia also present) | Definition of Solid-tumor Cancer (answer No if metastatic cancer or lymphoma, leukemia also present): head and neck, esophagus, stomach, colon , rectum and anus, liver and intrahepatic bile duct, pancreas, other GI organs, peritoneum, bronchus, lung, bone and connective tissue, melanomas of skin, other non-epithelial skin, breast, uterus, cervix, ovary, other female genital organs, prostate, testis, other male genital organs, bladder, kidney and renal pelvis, other urinary organs, brain and nervous system, thyroid | Current or history of Solid-tumor Cancer (does not include lymphoma, leukemia, skin) requiring treatment or management. If able to determine a history of Solid-tumor Cancer but not able to determine a timeframe, answer Yes. |
| Current or past history of ***Leukolymphoma*** | Definition of Leukolymphoma: Hodgkins disease, Non-Hodgkins lymphoma, Leukemias, Multiple myeloma | Current or history of Leukolymphoma. If able to determine a history of Leukolymphoma but not able to determine a timeframe, answer Yes. |
| Current or past history of ***Cognitive Defect*** | Definition of Cognitive Defect: Alzheimer’s disease, frontal dementia, vascular dementia, delirium, acute confusional state, dementia, amnestic disorder, mixed paranoid and affective organic-psychotic states, post-traumatic organic psychosis, post-concussion syndrome, dementia with Parkinsonism, Lewy body dementia | Current or history of Cognitive Defect. If able to determine a history of a Cognitive Defect but not able to determine a timeframe, answer Yes. |
| Current or past history of ***Other Neurological conditions*** | Definition of Other Neurological conditions: Parkinsons disease, Multiple sclerosis, Other hereditary and degenerative nervous system conditions, Epilepsy, convulsions, Coma, stupor, and brain damage | Current or history of Other Neurological conditions. If able to determine a history of Other Neurological conditions but not able to determine a timeframe, answer Yes. |