

Supplementary File (appendix)

Mesh terms and keywords used

("Criteria"[Tiab] OR "Standard*"[Tiab] OR "Parameter*"[Tiab] OR "Factor*"[Tiab]) AND ("Affect*"[Tiab] OR "Influence*"[Tiab] OR "Impact*"[Tiab] OR "Determine*"[Tiab]) AND ("Admission*"[Tiab] OR "Acceptance"[Tiab] OR "Entr*"[Tiab] OR "Acceptance Criteria"[Tiab]) AND ("Patient*"[Tiab] OR "Individual*"[Tiab] OR "Case*"[Tiab] OR "Victim*"[Tiab] OR "Healthcare Recipient*"[Tiab]) AND ("Critical Care Unit*"[Tiab] OR "Intensive Care Unit*"[Tiab] OR "Intensive Care"[Tiab] OR "Critical Care Facility"[Tiab] OR "ICU"[Tiab]) AND ("Mass Casualty Incident*"[Tiab] OR "Large-scale Emergence*"[Tiab] OR "Mass Emergency Situation*"[Tiab] OR "disaster*"[Tiab] OR "MCI"[Tiab]).

Practical Criteria for Admitting Patients to Intensive Care Units in Mass Casualty Incidents

#	First Author	Year	Study Title	Admission Criteria
1	Garner	2001	Comparative Analysis of Multiple-Casualty Incident Triage Algorithms	Level of consciousness (GCS), Systolic blood pressure, Respiratory rate, Capillary refill, Heart rate
2	Christian	2006	Development of a Triage Protocol for Critical Care During an Influenza Pandemic	Need for ventilator support, Hypoxemia, ABG abnormalities, Respiratory failure, Hemodynamic compromise, Shock
3	Ashkenazi	2006	Precision of In-Hospital Triage in Mass-Casualty Incidents after Terror Attacks	Injury Severity Score (ISS) criteria
4	Mahoney	2008	Mass-Casualty Incidents: How Does an ICU Prepare?	Imminent life-threatening injuries, Salvageable but severe injuries, Probability of patient survival
5	Devereaux	2008	Definitive Care for the Critically Ill During a Disaster: A Framework for Allocation of Scarce Resources in Mass Critical Care	SOFA model (neurologic, blood, liver, kidney, and hemodynamic disorders), Mechanical ventilation, Need for vasopressor medications
6	Williams	2009	Criteria for ICU Admission and Severity of Illness Scoring	MEWS Model: Heart rate, Respiratory rate, Systolic blood pressure, AVPU/GCS, Urine output, Temperature
7	Sprung	2010	Recommendations for ICU and Hospital Preparations	Need for invasive ventilation, Hypoxemia, Acute respiratory acidosis, Acute respiratory failure, Airway obstruction, Decreased level of consciousness,

			for an Influenza Epidemic or Mass Disaster	Decreased blood pressure, Need for vasopressors and inotropes
8	Christian	2010	Chapter 7. Critical Care Triage	SOFA model, Invasive ventilation, Hypoxemia, Respiratory acidosis, Acute respiratory failure, Airway obstruction, Decreased level of consciousness, Hypotension, Need for vasopressors and inotropes, Shock, Organ failure
9	Maghsoudi	2014	A Model for Decision-Making for ICU Admission in Source-Limited Hospitals	Need for a ventilator, Irregular breathing, CPR, Intracranial pressure monitoring, Severe blood pressure disorder, ICU nursing care, Pupil disorder, Continuous seizures, Severe electrolyte and ABG disorder, Dysrhythmia, GCS, Lethargy, HR/RR/SPO2 disorder
10	Farzi	2017	Evaluation of Admission Indications, Clinical Characteristics, and Outcomes of Obstetric ICU Patients	Severe hypertension, Postpartum hemorrhage, Seizures, Cardiovascular disease, Dysrhythmia, Respiratory failure, Trauma, UTIs, Need for mechanical ventilation
11	Christian	2019	Triage	SOFA model
12	Ehikhametalor	2019	Guidelines for ICU Admission, Discharge and Triage	Neurological disorder (severe head trauma, acute respiratory failure requiring intubation, neuromuscular dysfunction), Respiratory disorder (severe respiratory failure, impaired RR, PaO2, PaCO2, severe bloody sputum), Cardiovascular disorder (acute hemodynamic instability, shock, dysrhythmia, ruptured aortic aneurysm), Multisystem (septic shock, MODS, severe burns, trauma, environmental injuries, drug poisoning, obstetric/surgical disorders)
13	Stretch	2020	Criteria for ICU Admission and Severity of Illness	Respiratory rate, SPO2, Air or oxygen requirement, Systolic blood pressure, Pulse rate, Level of consciousness (GCS), Temperature
14	Tyrrell	2020	Managing ICU Admissions During COVID-19: A Systematic Review	Principle of utility, Survival probability (SOFA criteria), Clinical frailty criterion (CFS score), Age, Underlying diseases
15	Sprung	2020	Adult ICU Triage During COVID-19: Recommendations to Improve Survival	Patients requiring ventilator support, Hypoxemia, ABG abnormalities, Severe respiratory failure, Severe hemodynamic impairment, Need for vasopressor and inotrope drugs, Shock, Probability of survival
16	Hatami	2020	Predictors of ICU Admission Among Hospitalized COVID-19 Patients in Tehran	Respiratory distress, Hypoxia, Impaired consciousness, Seizures, Abnormal blood tests, Abnormal chest radiography, Pulmonary disorder

17	Downar	2022	A Framework for Critical Care Triage During a Major Surge in Critical Illness	Invasive ventilation need (hypoxia, respiratory acidosis, acute respiratory failure, airway obstruction), Blood pressure disorder (hypotension), Shock, Decreased level of consciousness, Organ failure, Need for vasopressors and inotropes
18	Joynt	2022	Admission Triage Tool for Adult ICU Admission in Hong Kong During COVID-19	Need for invasive ventilation, Hypoxia, Decreased SPO2, Respiratory acidosis, Acute respiratory failure, Airway obstruction, Severe drop in SBP, Need for vasopressors/inotropes (severe hemodynamic impairment), Impaired level of consciousness, Shock, Decreased urine output, Organ failure, Probability of patient survival, Severity of disease