eTable 1. Definitions of candidate prognostic factors

Prognostic factor	Definition
Age	The age of the patient in whole years at admission to critical care.
Sex	The genotypical sex of the patient.
Ethnicity	The ethnicity of the patient based on self-report, as recorded in the medical
	records or as seen. Recorded according to NHS ethnic category codes and
	grouped as white, Asian, black or mixed/other.
Quintile of deprivation	Population level quintiles within country based on small area multiple
	deprivation measures combining indicators of income, employment,
	education, health, crime, barriers to housing and services, and living
	environment. The latest published version of the measure for each country
	was used – the English Index of Multiple Deprivation 2019 for postcodes in
	England, the Welsh Index of Multiple Deprivation 2019 for postcodes in
	Wales or the Northern Ireland Multiple Deprivation Measure 2017 for
	postcodes in Northern Ireland.
Rody mass index	Calculated from the weight (either measured or estimated) and height
Body mass index	· · · · · · · · · · · · · · · · · · ·
	(either measured or estimated) of the patient as weight in kilograms divided
Any donordonous	by height in metres squared.
Any dependency prior to	Dependency prior to admission to acute hospital, assessed as the best
hospital admission	description for the dependency of the patient in the two weeks prior to
	admission to acute hospital and prior to the onset of the acute illness based
	on the level of assistance required with daily activities. Daily activities
	include bathing, dressing, going to the toilet, moving in/out of bed/chair,
	continence and eating.]
Immunocompromise	Immunocompromise due to illness or treatment during the six months prior
	to admission to critical care, defined by one or more of:
	AIDS (HIV positive and AIDS-defining illness)
	 Congenital immunohumoral or cellular immune deficiency state
	 Metastatic disease (distant metastases)
	 Chronic myelogenous or lymphocytic leukaemia
	 Acute myelogenous or lymphocytic leukaemia or multiple myeloma
	 Lymphoma
	 Chemotherapy
	 Radiotherapy
	 Daily high dose steroid treatment (≥ 0.3 mg/kg prednisolone or
	equivalent)
Sedated for entire of first	The patient was, in clinical opinion, never free from the effects of sedative
24h	agents at any time during the first 24 hours following admission to critical
	care. Sedation is defined as receiving continuous or intermittent doses of
	agents to produce and maintain a continuous decreased level of
	consciousness.
Highest temperature	Highest central temperature during the first 24 hours following admission to
	critical care. If no central temperatures recorded, highest non-central
	temperature +0.5°C is substituted.
Lowest systolic blood	Lowest systolic blood pressure during the first 24 hours following admission
pressure	to critical care.
Highest heart rate	Highest heart rate during the first 24 hours following admission to critical
5	care.
Highest respiratory rate	Highest respiratory rate (either ventilated or non-ventilated) during the first
	24 hours following admission to critical care.
PaO ₂ /FiO ₂	Ratio of PaO ₂ to FiO ₂ from the arterial blood gas with the lowest PaO ₂ from
	blood sampled during the first 24 hours following admission to critical care.
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Prognostic factor	Definition
Mechanical ventilation	Mechanical ventilation received at any time during the first 24 hours
	following admission to critical care. Mechanical defined as where some or
	all of the breaths, or a portion of the breaths, are delivered by a mechanical
	device. Indicated by the recording of a ventilated respiratory rate.
Highest blood lactate	Highest blood lactate concentration during the first 24 hours following
concentration	admission to critical care.
Highest serum creatinine	Highest serum creatinine during the first 24 hours following admission to
	critical care.
Highest serum urea	Highest serum urea during the first 24 hours following admission to critical
	care.
Lowest hemoglobin	Lowest hemoglobin concentration during the first 24 hours following
concentration	admission to critical care.
Lowest platelet count	Lowest platelet count during the first 24 hours following admission to critical
	care.