

African Covid-19 Critical Care Outcomes Study (ACCCOS)

Age years Sex M F (Measured or estimated) Mass (kg) Height (cm)
 COVID-19 Positive Suspected (If suspected, was patient later COVID-19 positive Y N COVID-19 testing not done)

Chronic co-morbid disease (tick all that apply): Coronary artery disease Y N Congestive heart failure Y N
 Hypertension Y N Stroke or Transient ischaemic attack Y N Diabetes mellitus Y N Cancer Y N
 Current smoker Y N Chronic Lung Disease Y N Active TB Y N Chronic Liver Disease Y N
 HIV/AIDS Y N If yes, Antiretroviral therapy Y N Chronic/ malaria within 3 months Y N Chronic kidney disease Y N

Location before critical care referral: Emergency Department In-hospital ward Transfer from another hospital/health facility
 Any surgery prior to 2 weeks of critical care admission Y N

Cardiorespiratory arrest in 24 hours prior to critical care referral Y N
 Quick SOFA score on referral: SBP≤100mmHg Y N Resp rate≥22 breathes/min Y N GCS≤14 Y N

SOFA score on referral/ admission (mark 0 to 4 for each category or unable to calculate due to missing data):

NOTE: See table below. Use worst values recorded from 24hrs prior to referral to 1hr after admission to Critical Care

SOFA score CNS or unable to calculate (mark X) SOFA score CVS or unable to calculate (mark X)
 SOFA score Respiratory or unable to calculate (mark X) SOFA score Renal or unable to calculate (mark X)
 SOFA score Liver or unable to calculate (mark X) SOFA score Haem or unable to calculate (mark X)

Admission decision: Admitted to (tick one): ICU HCU 'other area for critical care'
 Was admission delayed due to lack of resources (e.g. bed, staffing etc) Y N Nurse to patient ratio: nurses to patients
 Ability to provide invasive ventilation for patient if required Y N Physician available on site 24/7 for patient Y N

ICU or HCU Admission time (24h) & date: h h : m m d d m m 2 0 2 0

Organ support indication for admission to 'other area for critical care', HCU or ICU admission:
 Respiratory support Y N Cardiovascular support Y N Renal support Y N Other Y N

Management in ICU or HCU (check all that apply throughout stay): Respiratory: Oxygen mask Y N Not available
 CPAP Y N Not available HFNO (high-flow nasal oxygen) Y N Not available
 Proned while not ventilated Y N Proned on mech ventilation Y No, not indicated No, not practised
 Non-invasive ventilation Y N Not available Invasive ventilation Y N Not available

Intubation: Pre-admission Post admission No intubation
 If patient intubated, was intubation: Elective intubation Emergency intubation, and was the patient extubated Y N
 Other: Inotropes/ vasoconstrictors Y N Dialysis Y N Therapeutic anticoagulation Y N
 Steroid therapy Y N Repurposed/ experimental Covid-19 drug therapy Y N ECMO Y N Not available

Patient outcome:
 Consent: Consent obtained Patient included in study as unable to obtain 'delayed' consent (e.g. no proxy/ died)
 Status at hospital discharge or 30 days after critical care admission Alive & discharged Alive & in hospital Dead
 Status at critical care discharge: Alive Dead Length of stay in critical care: days
 Decision to limit therapy Y N Withdrawal of life support Y N

ACCCOS unique patient ID

 Patient name: _____ DOB d d m m y y y y

Patient hospital number : _____

Guidance for use of paper case record form (CRF). Remove this page before use in data collection

Investigators should write the patient name and date of birth on the CRF. When you enter the data on the internet based CRF you will receive an ACCCOS patient ID. Please write this on the paper CRF as well in case we need to contact you to check your data. Please take care to enter the data clearly and correctly.

SOFA SCORE

System	Score				
	0	1	2	3	4
Respiration					
PaO ₂ /FIO ₂ , mmHg (kPa)	≥400 (53.3)	<400 (53.3)	<300 (40)	<200 (26.7) with respiratory support	<100 (13.3) with respiratory support
Coagulation					
Platelets, ×10 ³ μL ⁻¹	≥150	<150	<100	<50	<20
Liver					
Bilirubin, mg dL ⁻¹ (μmol L ⁻¹)	<1.2 (20)	1.2–1.9 (20–32)	2.0–5.9 (33–101)	6.0–11.9 (102–204)	>12.0 (204)
Cardiovascular					
MAP ≥ 70 mmHg	MAP ≥ 70 mmHg	MAP < 70 mmHg	Dopamine < 5 or dobutamine (any dose) ^a	Dopamine 5.1–15 or epinephrine ≤ 0.1 or norepinephrine ≤ 0.1 ^a	Dopamine > 15 or epinephrine > 0.1 or norepinephrine > 0.1 ^a
Central Nervous System (CNS)					
Glasgow Coma Scale score ^b	15	13–14	10–12	6–9	<6
Renal					
Creatinine, mg dL ⁻¹ (μmol L ⁻¹)	<1.2 (110)	1.2–1.9 (110–170)	2.0–3.4 (171–299)	3.5–4.9 (300–440)	>5.0 (440)
Urine output, mL per day				<500	<200

FIO₂: fraction of inspired oxygen; MAP: mean arterial pressure; PaO₂: partial pressure of oxygen.

^aCatecholamine doses are given as μgkg⁻¹min⁻¹ for at least 1 h.

^bGlasgow Coma Scale scores range from 3 to 15; higher score indicates better neurological function.

Use the worst values recorded during the 24hrs prior to referral up to immediately after admission.

If a value is missing use the previous 24 hour value or assume normal value

If points are scored for both subcategories of an organ failure, choose the highest value

In sedated patients use the full GCS out of 15 prior to sedation

Estimated FIO₂ for spontaneously breathing patients – only use if not available from device manufacturer

Flow rate L/min	1	2	3	4	5	6	7	8	9	10
Nasal Cannula	.24	.27	.3	.33	.36	.36	.42			
Simple mask				.4	.5		.6			
Reservoir bag mask					.6		.7	.8	.9	.95

Adapted from Lambden, S., Laterre, P.F., Levy, M.M. *et al.* The SOFA score—development, utility and challenges of accurate assessment in clinical trials. *Crit Care* 23, 374 (2019).

ACCCOS unique patient ID

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Patient name: _____

DOB

d	d	m	m	y	y	y	y
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Patient hospital number : _____

CRF v2.0