

Supplementary materials

DECAF score components and scoring system

Component	Criteria	Score
D – Dyspnoea (eMRCD score)	eMRCD Grade 5a*	1
	eMRCD Grade 5b†	2
E – Eosinopenia	Eosinophil count $<0.05 \times 10^9/L$	1
C – Consolidation	Consolidation on chest radiograph	1
A – Acidaemia	Arterial pH <7.30	1
F – Atrial Fibrillation	Present on ECG or history	1
Maximum Score		6

*Grade 5a: Too breathless to leave the house independently but able to wash and dress independently.

†Grade 5b: Too breathless to wash or dress independently.

Risk categories

DECAF Score	Risk Category
0–1	Low Risk
2	Intermediate Risk
3–6	High Risk

BAP-65 score components and scoring system

Component	Criteria	Score
B – Blood Urea Nitrogen (BUN)	≥ 25 mg/dL (8.9 mmol/L)	1
A – Altered Mental Status	Present	1
P – Pulse Rate	≥ 109 beats/min	1

65 – Age	≥65 years	1
Maximum Score		4

Risk categories

BAP-65 Score	Risk Category
0–1	Low Risk
2	Intermediate Risk
3–4	High Risk

CURB-65 score components and scoring system

Component	Criteria	Score
C – Confusion	New onset confusion	1
U – Urea	>7 mmol/L (>20 mg/dL BUN)	1
R – Respiratory Rate	≥30 breaths/min	1
B – Blood Pressure	Systolic <90 mmHg or Diastolic ≤60 mmHg	1
65 – Age	≥65 years	1
Maximum Score		5

Risk categories

CURB-65 Score	Risk Category
0–1	Low Risk
2	Moderate Risk
3–5	High Risk

Comparison of DECAF, BAP-65, and CURB-65 scoring systems

Component	DECAF	BAP-65	CURB-65
Age ≥ 65 years	No	Yes	Yes
Altered mental status/confusion	No	Yes	Yes
Blood urea elevated	No	Yes	Yes
Tachycardia (Pulse $\geq 109/\text{min}$)	No	Yes	No
Dyspnea severity	Yes	No	No
Eosinopenia	Yes	No	No
Chest X-ray consolidation	Yes	No	No
Acidemia (pH < 7.30)	Yes	No	No
Atrial fibrillation	Yes	No	No
Respiratory rate $\geq 30/\text{min}$	No	No	Yes
Hypotension	No	No	Yes
Score range	0–6	0–4	0–5
Developed specifically for COPD	Yes	Yes	No
Primary purpose	Mortality prediction in AECOPD	Mortality and ventilation risk in AECOPD	Pneumonia severity assessment