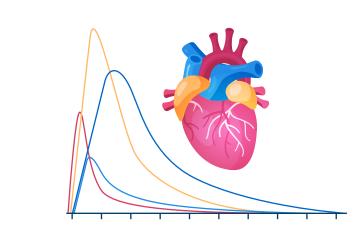
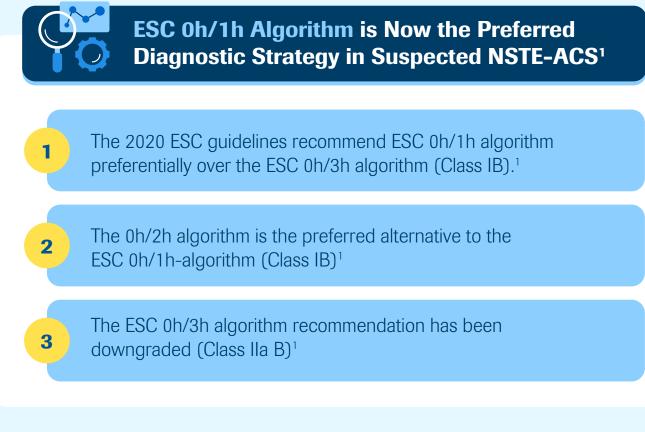
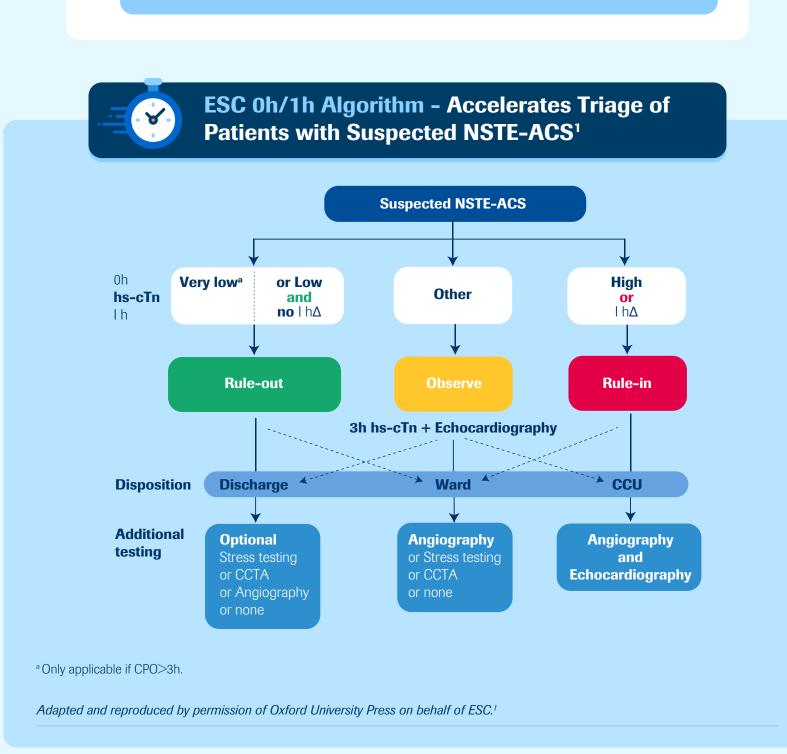
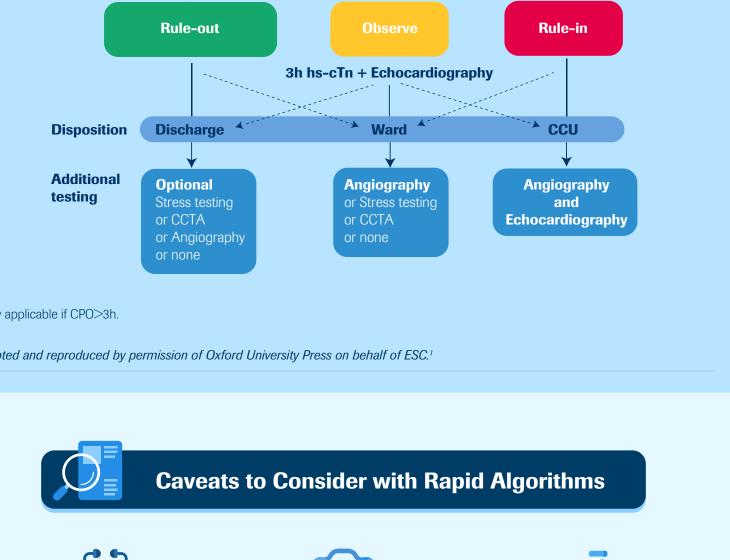
Cardiac Biomarkers & Rapid Algorithms for NSTE-ACS

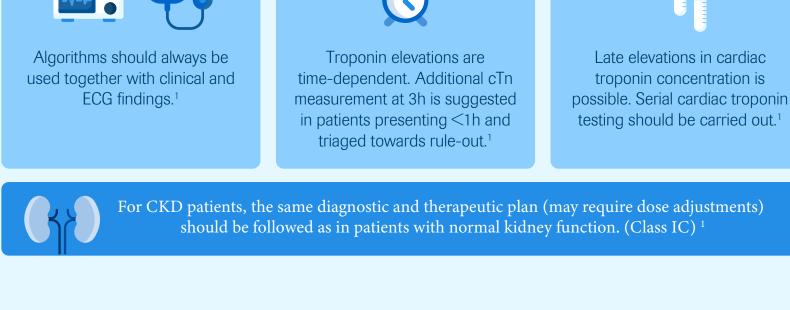
ESC 2020 Updates

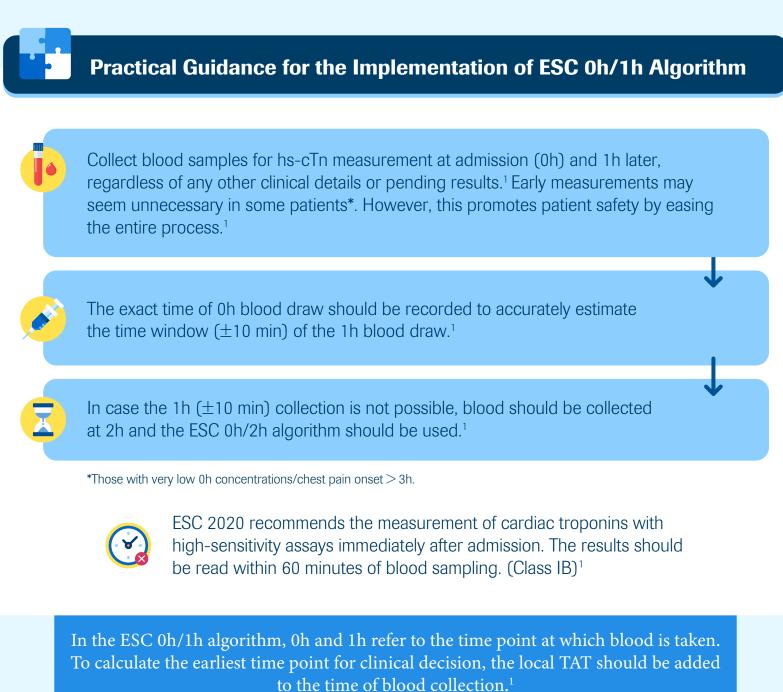












An Important Point to Consider when Using the ESC 0h/1h Algorithm¹ Estimated Total length of ED stay based on different algorithm and TAT scenarios

Turnaround time = 60 minutes

3 h blood draw

2nd Tn Results

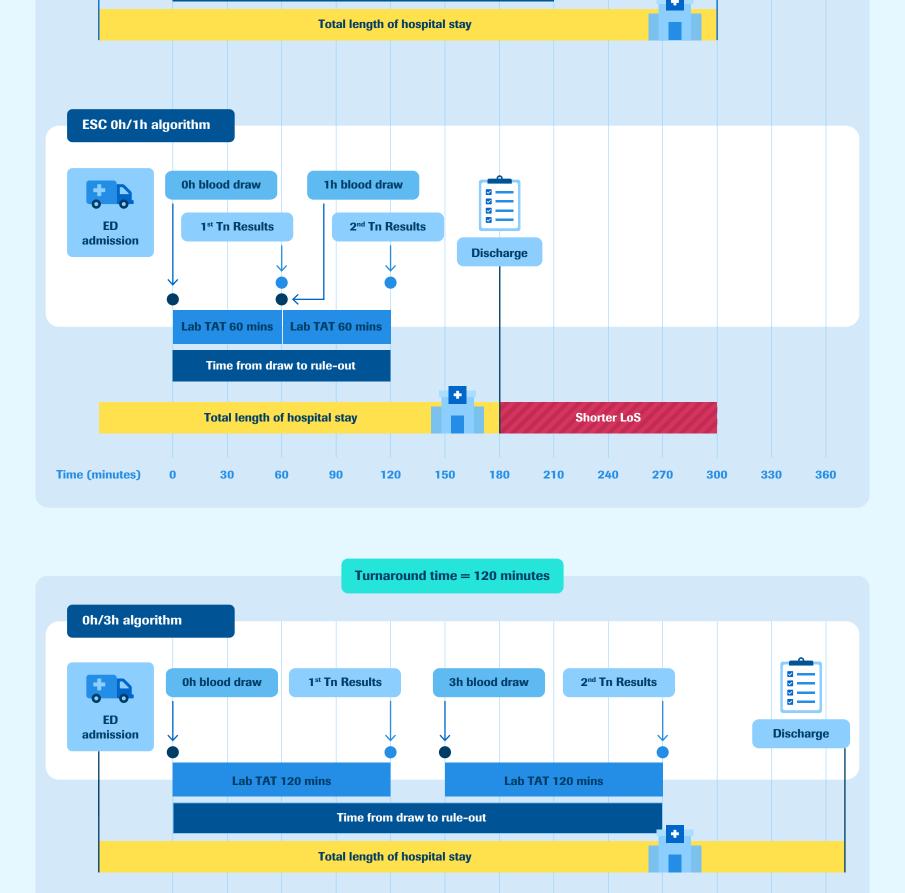
0h/3h algorithm

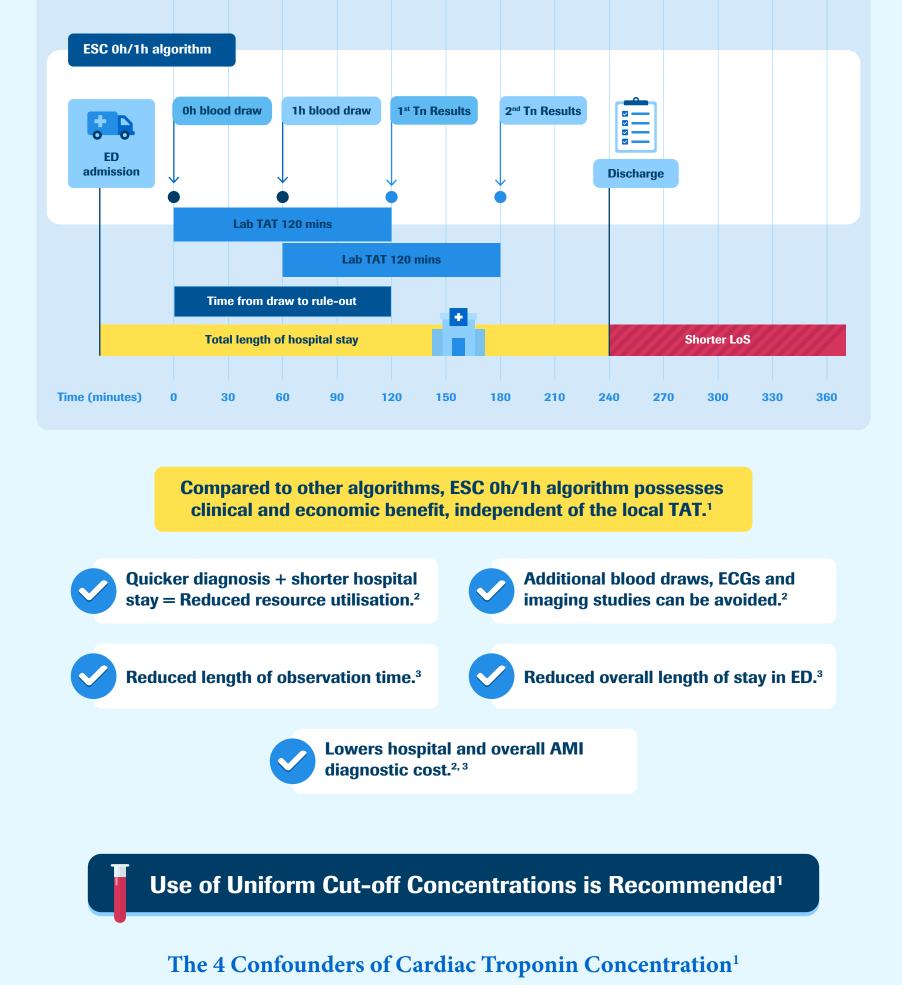
ED admission 0 h blood draw

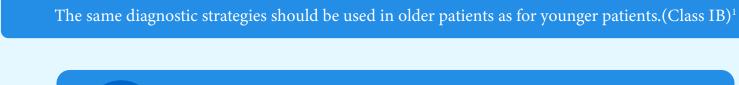
Timing of the Blood Draws and Clinical Decisions are Different:



1st Tn Results







Renal

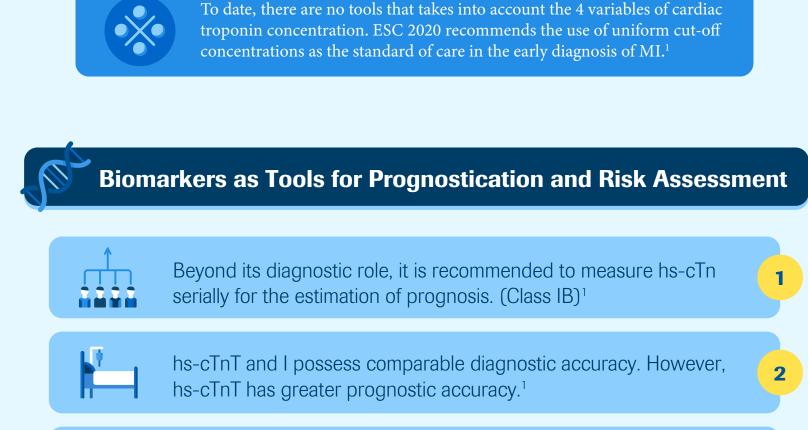
dysfunction

Substantial differences

Time from chest

pain onset

Age



hs-cTn adds prognostic information with regards to short- and

The higher the hs-cTn levels, the greater the risk of death. Serial

measurements can be used to detect peak levels of cardiac troponin

and risk stratify patients with established MI.1 BNP/NT-proBNP, serum creatinine and eGFR also affect prognosis

and should be measured concomitantly.1

long-term mortality to clinical and ECG variables.1

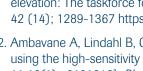
Abbreviations: ESC: European Society of Cardiology; NSTE-ACS: Non ST-elevation acute coronary syndrome; ACS: Acute coronary syndrome; CKD: Chronic kidney disease; hs-cTn: high-sensitivity cardiac troponin; ED: Emergency department; AMI: Acute myocardial infarction; MI:

Myocardial infarction; BNP: B-type natriuretic peptide; NT-proBNP: N-terminal pro-B-type natriuretic peptide; eGFR: Estimated glomerular filtration

rate; TAT: Turn-around time; ECG: Electrocardiogram; LoS: Length of stay; MACE: Major adverse cardiovascular events; CCTA: Coronary

1. Collet JP, Thiele H, Barbato E, et al. 2020 ESC Guidelines for the management of ACS in patients presenting without persistent ST-segment

3. Giannitsis E, Blankenberg S, Christenson RH, et al. Critical appraisal of the 2020 ESC guideline recommendations on diagnosis and risk



References:

computed tomography angiography; CCU: Coronary care unit.

Res Cardiol. 2021;10.1007/s00392-021-01821-2. d

elevation: The taskforce for the management of ACS patient without persistent ST-segment elevation of the ESC, European Heart Journal 2020; 42 (14); 1289-1367 https://doi.org/10.1093/eurheartj/ehaa575. 2. Ambavane A, Lindahl B, Giannitsis E, et al. Economic evaluation of the one-hour rule-out and rule-in algorithm for acute myocardial infarction using the high-sensitivity cardiac troponin T assay in the emergency department [published correction appears in PLoS One. 2018 Jan 11;13(1):e0191348]. PLoS One. 2017;12(11):e0187662.

assessment in patients with suspected non-ST-segment elevation acute coronary syndrome [published online ahead of print, 2021 Feb 26]. Clin

3

Modest differences

Sex