

- **The CUH ED HEART Pathway is a risk stratification tool and does not replace sound clinical judgement.**
- On initial evaluation, a 'HEAR' score should be calculated as the initial Troponin I will not be available.
- Patients admitted to CDU will have Troponin I testing at presentation and 3 hours later.
- Patients with a Troponin I result **AT ANY TIME** that is ≥ 3 times the upper limit of normal **OR** who have an increase of $>50\%$ in the Troponin I from time 0 to 3hrs should be referred to Cardiology.
- Patients with 2 negative Troponin I results and a non-diagnostic ECG should be discharged and advised to follow-up with their general practitioner.

Heart Score Guide

History

High-Risk Features

- Middle or left-sided
- Heavy chest pain
- Diaphoresis
- Nausea/vomiting
- Exertional
- Relief of symptoms by sublingual nitrates

Low-Risk Features

- Well localized
- Sharp pain
- Non-exertional
- No diaphoresis
- No nausea/no vomiting

Highly suspicious	2 points
Moderately suspicious	1 point
Slightly suspicious	0 points

Mostly high-risk features (>2 on high-risk list)
Mixture of high-risk and low-risk features
Mostly low-risk features

ECG

New ischaemic changes	2 points
Non-specific changes	1 point

- Ischaemic ST-segment depression
- New ischaemic T wave inversion
- Repolarization abnormalities
- Non-specific T wave changes
- Non-specific ST-segment depression or elevation
- Bundle branch blocks
- LVH
- Early repolarization
- Digoxin effect
- Completely normal

Age



Normal	0 points
≥ 65 years	2 points
45-64	1 point
<45 years	0 points

Risk Factors

- Obesity
 - Current or recent smoker
 - Currently treated DM
 - Family history of CAD
 - Hypertension
 - Hypercholesterolaemia
- | | |
|---|----------|
| ≥ 3 or more risk factors or history of atherosclerotic disease | 2 points |
| 1-2 risk factors | 1 point |
| 0 risk factors | 0 points |

Troponin

≥ 3 times upper limit of normal	2 points
$>1 - <3$ x normal limit	1 point
\leq Normal limit	0 points

TROPONIN I		
Normal	$<34\text{ng/L}$	$<16\text{ng/L}$
>1 but less than 3 times normal	$35-101\text{ng/L}$	$17-47\text{ng/L}$
≥ 3 times normal	$\geq 102\text{ng/L}$	$\geq 48\text{ng/L}$