### SUPPLEMENTARY MATERIAL

**Supplemental Table S1. Myocardial infarction rule-out criteria for each included study.**

<table>
<thead>
<tr>
<th>Study</th>
<th>Rule-out Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willems, 2014</td>
<td>hs-cTnT ≤14 ng/L at 4-6h post-symptom onset</td>
</tr>
<tr>
<td>McCord, 2017</td>
<td>hs-cTnT &lt; 12 ng/L at presentation and a change of &lt;3 ng/mL at 1 hour</td>
</tr>
<tr>
<td>Carlton, 2018</td>
<td>hs-cTnT &lt; LoD</td>
</tr>
<tr>
<td>Marcusohn, 2020</td>
<td>Undetectable hs-cTnI (&lt;5 ng/L) in blood samples taken 6 or more hours after chest pain onset</td>
</tr>
<tr>
<td>Ratmann, 2020</td>
<td>hs-cTnI &lt; 99th centile at 0/2h and non-diagnostic ECG</td>
</tr>
<tr>
<td>Khan, 2021</td>
<td>hs-cTnT &lt; 5 ng/L at &gt;3h symptoms or ≤12 ng/L and a change in hs-cTnT over 1h of &lt;3 ng/L was seen</td>
</tr>
</tbody>
</table>

hs-cTnT= high-sensitivity cardiac troponin T, hs-cTnI= high-sensitivity cardiac troponin I, LoD= Limit of detection, ECG= Electrocardiogram
Supplemental Appendix S1. Ovid MEDLINE Electronic Search Strategy

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily

1  high sensitivity troponin.mp.
2  exp Emergency Medical Services/ or exp Emergency Service, Hospital/
3  (emergency adj3 (department* or unit* or room* or service* or ward*)).mp.
4  2 or 3
5  1 and 4
6  high sensitivity troponin*.mp.
7  4 and 6
8  (high sensitivity adj2 troponin*).mp.
9  4 and 8
10  9 not 7
11  (high sensitivity adj3 troponin*).mp.
12  4 and 11
13  12 not 9
14  ((high sensitiv* or ultrasensitiv*) adj3 troponin*).mp.
15  4 and 14
16  ((high sensitiv* or ultrasensitiv* or ultra-sensitiv*) adj3 troponin*).mp.
17  Chest pain*.mp. or exp Chest Pain/
18  (angina pectoris or stable angina* or unstable angina* or preinfarction angina* or pre-infarction angina* or angina at rest or variant angina* or prinzmetal*).mp.
19  (angina pectoris or stable angina* or unstable angina* or preinfarction angina* or pre-infarction angina* or angina at rest or variant angina* or prinzmetal*).tw,kf.
20  18 not 19
21  Myocardial ischemia/ or myocardial ischemia*.mp.
22  acute coronary syndrome/ or acute coronary syndrome*.mp.
23  (angina pectoris or coronary disease* or coronary heart disease* or coronary artery disease* or coronary arteriosclerosis or coronary atherosclerosis or myocardial infarct* or heart attack*).mp.
24  17 or 18 or 21 or 22 or 23
25  16 and 24
26  Decision Support Techniques/ or (decision aid* or clinical prediction rule* or decision model*).mp.
27  ((heart adj2 score) or heartscore or heart tool or heart pathway).mp.
28  risk scor*.mp.
29  26 or 27 or 28
30  25 and 29
31  4 and 16
32  29 and 31
33  30 or 32