**Supplementary 1 Search strategies**

**Medline (Pubmed)**

((((((((((("changes troponin" OR "change troponin" OR "increase troponin" OR "increased troponin" OR "increasing troponin" OR "decreased troponin" OR "decrease troponin" OR “decreasing troponin” OR "rise troponin" OR "rising troponin" OR "fall troponin" OR "falling troponin")) AND ("myocardial infarction" OR "heart ischemic" OR “heart ischeamic” OR “myocardial ischemic” OR "myocardial ischaemic")) AND English[Language]) NOT (animals [mesh] NOT (humans [mesh] AND animals [mesh)) NOT (child[mesh] NOT (adult[mesh] AND child[mesh]))) NOT (infant[mesh] NOT (adult[mesh] AND infant[mesh]))) NOT (chronic NOT (acute AND chronic)))

**Embase**

changes OR change OR rise OR rising OR fall OR falling AND troponin AND ('myocardial infarction'/exp OR 'myocardial ischemia'/exp OR 'myocardial ischaemia'/exp) AND english:la NOT ('animals'/exp NOT ('humans'/exp AND 'animals'/exp)) NOT ('child'/exp NOT ('adult'/exp AND 'child'/exp)) NOT ('infant'/exp NOT ('adult'/exp AND 'infant'/exp)) NOT (chronic NOT (acute AND chronic))

**Supplementary 2 Modified QUADAS tool**

**1. Was the spectrum of patients representative of the patients who will receive the test in practice? (representative spectrum)**

Answer ‘yes’ if one of the following conditions is met:

1. Included patients troponin levels are tested to detect myocardial infarction (MI)

Answer ‘no’ if neither of the conditions is met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’

**2. Is the reference standard likely to classify the target condition correctly? (acceptable reference standard)**

Answer ‘yes’ if one of the following conditions is met:

1. the official diagnostic criteria for myocardial infarction from the cardiology society are used
2. there are positive findings on the angiography or autopsy or imaging (echo, CT or MRI)

Answer ‘no’ if neither of the conditions is met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’

**3. Is the time period between reference standard and index test short enough to be reasonably sure that the target condition did not change between the two tests? (acceptable delay between tests)**

Answer ‘yes’ if all the following conditions are met:

1. the first troponin test is within two hours of admission
2. between the first and last troponin test is at least 6 hours

Answer ‘no’ if not both of the conditions are met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’

**4. Did the whole sample or a random selection of the sample, receive verification using the intended reference standard? (partial verification avoided)**

Answer ‘yes’ if one of the following conditions is met:

1. all patients with eventually the diagnosis MI received the troponin testing

Answer ‘no’ if neither of the conditions is met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’

**5. Were the same clinical data available when test results were interpreted as would be available when the test is used in practice? (relevant clinical information)**

Answer ‘yes’ if one of the following conditions is met:

1. troponin testing took place for the clinical suspicion of MI

Answer ‘no’ if neither of the conditions is met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’

**6. Were uninterpretable/ intermediate test results reported? (uninterpretable results reported)**

Answer ‘yes’ if one of the following conditions is met:

1. invalid, intermediate or uninterpretable test results are mentioned
2. it is mentioned that all test results were valid

Answer ‘no’ if neither of the conditions is met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’

**7. Were withdrawals from the study explained? (withdrawals explained)**

Answer ‘yes’ if one of the following conditions is met:

1. withdrawals from the study were explained

Answer ‘no’ if neither of the conditions is met

Answer ‘unclear’ if insufficient information is available to answer ‘yes’ or ‘no.’