

PEER-REVIEW REPORT

Name of journal: *World Journal of Cardiology*

Manuscript NO: 70948

Title: Highly sensitive troponin I assay in the diagnosis of coronary artery disease in patients with suspected stable angina

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05180942

Position: Editorial Board

Academic degree: MD, MSc

Professional title: Associate Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: United Kingdom

Manuscript submission date: 2021-08-20

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-08-28 08:17

Reviewer performed review: 2021-08-28 11:39

Review time: 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous
	Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript investigated the role of a highly sensitive troponin I (uscTnI) test in the diagnosis of suspected CAD in the rapid access chest pain clinics of a non-academic hospital for the first time in the literature. 172 non-emergency patients for CAD referred by the community physician were subjected to functional or anatomical tests according to the hospital protocol and the results were obtained. The results of patients who underwent ETT, Echo, Stress Echo, CCTA, and a coronary angiography were evaluated using ROC to see if uscTnI was linked to coronary artery stenosis. The AUC was 0.63 in ROC analysis (95 percent CI 0.51-0.73). At uscTnI >0.52 ng/L, sensitivity was 100% and specificity was 1.6 percent; at uscTnI >11.6 ng/L, sensitivity was 10.7% and specificity was 100%. In the presence of CHD, the researchers concluded that uscTnI should be used in conjunction with clinical assessment. 1. Title is reflect the main subject of the manuscript. 2. The abstract is summarize and reflect the work described in the manuscript 3. Key words are reflect the focus of the manuscript. 4. Background is completely describe the manuscript. 5. The manuscript briefly highlights key points, commenting on the topic in a generally adequate and appropriate manner. 6. The manuscript complies with the SI unit requirements. 7. The tables are adequate. But a column is missing in the table 1 (Stress Echo positive n:1) 8. The figures are adequate and properly explain the paper content. 9. The article cites reliable references appropriately. 10. The article organization and presentation quality is well laid out, concise and consistent. 11. The author has prepared his manuscript to the appropriate categories. 12. The manuscript meet the requirements of ethics The number of cases should be higher. Its contribution to the literature is moderate.

1. a column is missing in the table 1 (Stress Echo positive n:1).