



PEER-REVIEW REPORT

Name of journal: *World Journal of Experimental Medicine*

Manuscript NO: 72321

Title: Machine Learning Algorithm for Simplified POCUS “Visual Estimation” of Left Ventricular Ejection Fraction Using A Large Publicly Available Echo Video Database

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05382551

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer’s Country/Territory: Spain

Author’s Country/Territory: United States

Manuscript submission date: 2021-10-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-11 22:13

Reviewer performed review: 2021-10-12 10:50

Review time: 12 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 Grade E: Do not publish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 type="checkbox"/> Grade A: Priority publishing <input checked="" 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



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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
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SPECIFIC COMMENTS TO AUTHORS

The article is within the scope of the journal, and the topic described is of great interest. It is well written and structured. And it is easy to read. The design of the experiment is correct and the results obtained are interesting for the area of knowledge and represent an advance in the problem described. To improve the article, two suggestions are made: a) Extend the conclusions section and establish a set of lines of future work. b) Extend the introductory section in order to go deeper into the state of the art.



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Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05759722

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Scientist, Teaching Assistant

Reviewer’s Country/Territory: Malaysia

Author’s Country/Territory: United States

Manuscript submission date: 2021-10-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-30 08:49

Reviewer performed review: 2021-11-12 11:53

Review time: 13 Days and 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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SPECIFIC COMMENTS TO AUTHORS

This study is well organized the topic is timely. The authors have proposed a very interesting study about to visually estimate left ventricular ejection fraction from a public database of actual patient echo examinations and compare results to echocardiography laboratory EF calculations. This study can be accepted in its current form, with specifically revising the concept of ML to DL through the whole manuscript. Since the authors has used deep learning not a machine learning algorithm.