

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Cardiology*

**Manuscript NO:** 73325

**Title:** Global longitudinal strain is superior to ejection fraction for detecting myocardial dysfunction in end-stage renal disease with hyperparathyroidism

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 02623966

**Position:** Editorial Board

**Academic degree:** MD, MSc, PhD

**Professional title:** Attending Doctor, Research Scientist

**Reviewer's Country/Territory:** Greece

**Author's Country/Territory:** Mexico

**Manuscript submission date:** 2021-11-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-04 17:47

**Reviewer performed review:** 2021-12-04 17:47

**Review time:** 1 Hour

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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (General priority) <input 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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<b>Peer-reviewer statements</b>	Peer-Review: [ <input type="checkbox"/> ] Anonymous [ <input checked="" type="checkbox"/> ] Onymous Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

It is a well-design study adding new information to the literature. According to my knowledge, it is a novel paper in its field opening new horizons for further evidence. Authors, succeed to present their findings in a clear way. In addition, the object as well as the results are appropriately discussed in the context of previous literature explaining the importance of the manuscript in its field. Authors succeed to present their data in a clear way adding information to the existing literature. Therefore, I have no corrections or further work to propose for the improvement of the manuscript and therefore it can be published unaltered.

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**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:** Mexico

**Manuscript submission date:** 2021-11-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-15 01:18

**Reviewer performed review:** 2021-12-15 01:57

**Review time:** 1 Hour

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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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<b>Peer-reviewer statements</b>	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. The topic is interesting for the knowledge area. It is well written and structured. However, some improvements are needed: a) The introduction to the state of the art should be extended. b) The conclusions should better explain what the scientific contribution is and propose a set of future lines of work.

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**Peer-review model:** Single blind

**Reviewer's code:** 00503249

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Director, Professor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Mexico

**Manuscript submission date:** 2021-11-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-15 09:33

**Reviewer performed review:** 2021-12-20 09:38

**Review time:** 5 Days

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

<b>Peer-reviewer statements</b>	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

This paper by Carrasco-Ruiz et al., entitled “Global Longitudinal Strain overcomes ejection fraction for detecting myocardial dysfunction in End-Stage Renal Disease with hyperparathyroidism” demonstrates in a small study the superiority of GLS on EF to identify LV dysfunction in asymptomatic patients with ESRD. It remains unclear why Authors emphasized the presence of hyperparathyroidism, that is usually common in ESRD patients as a consequence of ESRD. Specific Comments 1. Left atrial volume (LAV) was reported in the literature as an important tool predicting diastolic dysfunction in ESRD patients (Tripepi G. et al. J Am Soc Nephrol 2007; Hypertension 2009). Data on LAV should be included in Table 5 and compared with those of the above mentioned references; also they should be tested as a variable potentially influencing GLS (Table 4). 2. Natriuretic peptides (NPs) were reported to be linked to cardiac remodeling (Cataliotti A. et al., Mayo Clin Proc 2001), survival (Zoccali C. et al., J Am Soc Nephrol 2001) and volume expansion-related left ventricular disorders (Enia G. et al. Nephrol Dial Transplant 2001) in patients with ESRD. Their well recognized diagnostic role in ESRD patients should be recalled, as previously emphasized (Mallamaci F. et al., Kidney Int 2001). Did Authors measure NPs? 3. Sympathetic overactivity was reported to be strictly linked to left ventricular disorders and volume excess in ESRD patients (Abd ElHafeez S. et al. J Nephrol 2015). This concept should be argued in the Discussion, as one of the most important pathophysiological mechanisms leading to LV dysfunction in these patients. 4. Discussion should be reorganised, mostly focused on the superiority of GLS on EF to identify LV dysfunction. 5. Taable 5: Cociente E/é should actually run as E/e’ ratio. 6. In the title the word “overcomes” should be changed in “superior than”. 7.

Extensive English revision is needed.