

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 52221

**Title:** Depression and Myocardial Injury in ST-Segment Elevation Myocardial Infarction:  
A Cardiac Magnetic Resonance Imaging Study

**Reviewer's code:** 03478909

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Doctor, Professor

**Reviewer's country:** United States

**Author's country:** China

**Manuscript submission date:** 2019-12-21

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2019-12-25 01:20

**Reviewer performed review:** 2020-01-12 08:59

**Review time:** 18 Days and 7 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

## **SPECIFIC COMMENTS TO AUTHORS**

Post-MI depression has been independently associated with higher all-cause mortality, cardiac mortality, nonfatal events and health care costs. Altered autonomic nervous system activity, inflammation, platelet activation and low brain-derived neurotrophic factor may play important roles in the mechanism of depression affecting the prognosis of patients with MI. However, the detailed pathophysiological association between depression and adverse outcomes in patients with MI still needs further evaluation. The PHQ-9 is a self-report checklist derived from the interview used in the Primary Care Evaluation of Mental Disorders. The PHQ-9 assesses the presence and severity of depressive symptoms and has reasonable sensitivity and specificity for patients with MI. Other studies have also found that the PHQ-9 could identify cardiac patients at risk for adverse cardiovascular outcomes. In this study, the authors assessed the association between depression identified by the PHQ-9 and myocardial injury measured on cardiac magnetic resonance in patients with ST-segment elevation myocardial infarction. This study is very well designed. The results are very interesting. Minor comments: 1. The figure is too small, please update it. 2. Data in tables are good, however, requires an editing. 3. References list is updated, but also, require an editing according to the journal's style. 4. Some minor language polishing should be corrected.

## **INITIAL REVIEW OF THE MANUSCRIPT**

### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No



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**Reviewer's code:** 03478923

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Professor, Research Associate, Senior Lecturer

**Reviewer's country:** United States

**Author's country:** China

**Manuscript submission date:** 2019-12-21

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2019-12-25 01:21

**Reviewer performed review:** 2020-01-12 09:04

**Review time:** 18 Days and 7 Hours

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<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Interesting study of depression and myocardial injury measured on CMR in STEMI patients. The manuscript is well written. I have no specific comments. I suggest to accept it after a minor language revision.

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