

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 79055

Title: The Utility of D-dimer in Total Joint Arthroplasty

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05117838

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor, Surgeon

Reviewer's Country/Territory: Iraq

Author's Country/Territory: United States

Manuscript submission date: 2022-07-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-09-05 05:57

Reviewer performed review: 2022-09-08 17:39

Review time: 3 Days and 11 Hours

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 Grade E: Do not publish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 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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements	Conflicts-of-Interest: [] Yes [Y] No
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SPECIFIC COMMENTS TO AUTHORS

The study did not add novel things to the subject, The review did not help the reader to have a clear cut idea about usage of D-Dimer in late onset periprosthetic infection.

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Peer-review model: Single blind

Reviewer's code: 06139999

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Chief Physician, Associate Professor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-07-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-10-12 20:12

Reviewer performed review: 2022-10-17 00:54

Review time: 4 Days and 4 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
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Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In the manuscript, the authors reviewed the utility of D-dimer in total joint arthroplasty. It is interesting and meaningful. I have several questions for the authors: 1. what is the mechanism of D-dimer elevated in chronic periprosthetic joint infection? Is that same to VTE or not? I would suggest the authors to explain and add it in the manuscript. 2. Please explain why D-dimer can be used as a biomarker for the diagnosis of the chronic periprosthetic joint infection, but it can not used in acute PJI? What is the difference between them? 3. As we known, procalcitonin is an important biomarker for diagnosis of infection, was there any literature which compare D-dimer with procalcitonin? If yea, I would suggest the authors to add it in the manuscript.

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Peer-review model: Single blind

Reviewer's code: 06372936

Position: Peer Reviewer

Academic degree: PhD, MD

Professional title: Academic Research, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-07-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-10-12 04:22

Reviewer performed review: 2022-10-19 09:20

Review time: 7 Days and 4 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 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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this review article, the authors review the use of D-dimer in the application of the early detection and diagnosis of postoperative complications (venous thromboembolism and periprosthetic joint infection) after total joint replacements. This provides a certain basis for early detection and diagnosis of complications after total joint replacement. This review article as a whole has good clinical significance. The specific review comments:

1.Introduction The second paragraph mainly introduces the application of D-dimer in the diagnosis of periprosthetic joint infection. The first paragraph introduces too little about the application of D-dimer in the diagnosis of venous thromboembolism. Please add some content about the application of D-dimer in the diagnosis of venous thromboembolism (such as important research progress, etc.). 2.D-DIMER It is suggested that “Utility in Medicine” be changed to “Applications in the field of medicine”. 3.Venous thromboembolism The authors should add some discussion about the use of D-dimer in DVT. 4. Periprosthetic joint infection The authors should briefly analyze the reasons for the conflicting conclusions of studies on D-dimer as a biomarker for PJI.