PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 65895

Title: Vancomycin lavage can significantly decrease the incidence of acute surgical site infection following primary total hip arthroplasty and total knee arthroplasty

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 06086865

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer’s Country/Territory: Germany

Author’s Country/Territory: China

Manuscript submission date: 2021-08-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-08-15 16:36

Reviewer performed review: 2021-08-28 22:17

Review time: 13 Days and 5 Hours

<table>
<thead>
<tr>
<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
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<td>Language quality</td>
<td>Grade A: Priority publishing</td>
<td>Grade B: Minor language polishing</td>
<td>Grade C: A great deal of language polishing</td>
<td>Grade D: Rejection</td>
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<td>Conclusion</td>
<td>Accept (High priority)</td>
<td>Accept (General priority)</td>
<td>Minor revision</td>
<td>Major revision</td>
<td>Rejection</td>
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<td>Re-review</td>
<td>Yes</td>
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SPECIFIC COMMENTS TO AUTHORS
Implant infections remain a relatively rare but devastating complication associated with total joint arthroplasty. Total joint arthroplasty can lead to hematoma formation, which creates conditions that encourage bacterial growth, and bacteria can form biofilms that protect them from antimicrobials and the patients’ immune response. This study investigated the effectiveness of prophylactic intraoperative application of vancomycin solution vs plain irrigation in reducing the incidence of acute surgical site infection following primary total hip arthroplasty and total knee arthroplasty. The study is overall very interesting. The results are well displayed and discussed. A minor language editing is required.