



PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 50739

Title: Novel zinc alloys for biodegradable surgical staples

Reviewer's code: 02553318

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor, Professor, Surgeon

Reviewer's country: Italy

Author's country: Japan

Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2019-09-22 12:51

Reviewer performed review: 2019-09-26 17:48

Review time: 4 Days and 4 Hours

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|---|--|---|--|
| <input type="checkbox"/> Grade A: Excellent | <input checked="" type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept | Peer-Review: |
| <input type="checkbox"/> Grade B: Very good | <input 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 |
| <input type="checkbox"/> Grade E: Do not | language polishing | <input type="checkbox"/> Minor revision | topic of the manuscript: |
| publish | <input type="checkbox"/> Grade D: Rejection | <input type="checkbox"/> Major revision | <input type="checkbox"/> Advanced |
| | | <input checked="" type="checkbox"/> Rejection | <input type="checkbox"/> General |
| | | | <input checked="" type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

Dear authors, Your article is scientifically very interesting. Indeed, absorbable staples



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could be very useful in gastrointestinal surgery. Experiments and data analysis were adequately and appropriately conducted. Language is good. However, a part for the in vivo examination, results of in vitro tests cannot be properly reviewed by surgeons or physicians. In my opinion your manuscript should be sent to a biomedical engineering journal rather than to a surgical one.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

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- Duplicate publication
- Plagiarism
- No



PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 50739

Title: Novel zinc alloys for biodegradable surgical staples

Reviewer's code: 00058696

Position: Editor-in-Chief

Academic degree: MD

Professional title: Doctor, Professor

Reviewer's country: United States

Author's country: Japan

Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2019-09-19 20:09

Reviewer performed review: 2019-09-28 19:13

Review time: 8 Days and 23 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 type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language | (High priority) | <input type="checkbox"/> Anonymous |
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| <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 type="checkbox"/> Minor revision | topic of the manuscript: |
| publish | <input type="checkbox"/> Grade D: Rejection | <input type="checkbox"/> Major revision | <input type="checkbox"/> Advanced |
| | | <input checked="" type="checkbox"/> Rejection | <input checked="" type="checkbox"/> General |
| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

I have carefully read this new manuscript.

My major questions are summarized



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below: 1) The authors in their introduction have not provided evidence for their statement that development of biodegradable staples is “highly desirable”. The authors provide 4 references which represent 4 case reports over a 15 year period. It would appear that a case-control study is warranted. 2) Ti surgical staples are generally inert. Indeed in the authors in vivo animal study, inflammatory cell infiltrates were seen around only the Zn alloy staples. 3) Results, Immersion testing: what are the p values from comparison of corrosion rates of HBSS to FeSSIF? Final sentence: “FeSSIF shows that the component elements”; I assume the authors mean “FeSSIF supports the interpretation that the component elements”. 4) Inflammation in In vivo Results section: by mild inflammation I assume the authors mean “minimal inflammation” (this is also seen on page 14, paragraph 2, line 415). What cell types were identified? Were there granulomas or giant cell reaction seen? 5) Discussion, lines 387 to 389: “A simple calculation reveals”; do the authors mean “A simple calculation assuming a stable rate of degradation reveals”? The authors in the Discussion have not described how the finding of localized inflammatory infiltrates around Zn staples alters their search for an alloy that does not lead to “allergic/foreign-body reactions, adhesion, or other adverse effects” (taken from their Abstract/Background). Minor Issue: Figure 1 is not needed.

INITIAL REVIEW OF THE MANUSCRIPT

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