### PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Surgery  
**Manuscript NO:** 66711  
**Title:** Platelet rich plasma effectiveness in bowel anastomoses: A systematic review  
**Reviewer’s code:** 05846802  
**Position:** Peer Reviewer  
**Academic degree:** MD  
**Professional title:** Doctor  
**Reviewer’s Country/Territory:** Japan  
**Author’s Country/Territory:** United States  
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**Reviewer chosen by:** AI Technique  
**Reviewer accepted review:** 2021-04-19 02:12  
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**Review time:** 4 Days and 2 Hours

<table>
<thead>
<tr>
<th>Scientific quality</th>
<th>[ ] Grade A: Excellent</th>
<th>[ ] Grade B: Very good</th>
<th>[Y] Grade C: Good</th>
<th>[ ] Grade D: Fair</th>
<th>[ ] Grade E: Do not publish</th>
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<tbody>
<tr>
<td>Language quality</td>
<td>[Y] 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>[Y] Major revision</td>
<td>[ ] Rejection</td>
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<td>Re-review</td>
<td>[Y] Yes</td>
<td>[ ] No</td>
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<td>Peer-review statements</td>
<td>Peer-Review: [ ] Anonymous</td>
<td>[Y] Onymous</td>
<td>Conflicts-of-Interest: [ ] Yes</td>
<td>[Y] No</td>
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SPECIFIC COMMENTS TO AUTHORS

In this article, the authors have reported the effect of platelet rich plasma (PRP) by systematic review. This well described manuscript will give us the role of PRP on the healing mechanism of intestinal anastomoses. Many papers were published regarding this research, and a variety of results have been reported. As the authors state, the effect of PRP on healing of intestinal anastomoses is acceptably for improving the various factors. However, description of context is immature and should be revised to become instructive to readers. Questions and comments to authors: Comments; 1. As the authors state, it is still unclear what is actually effect of PRP on anastomosis site healing. According to the previous reports, evaluating factors were anastomotic burst pressure, tissue hydroxyproline, collagen deposition, and inflammatory cells deposition. If possible, please show the figure which factors in the healing process PRP may act on. It can make it easier for the reader to understand the effect of PRP. 2. Aydin et al (2020)1 reported the effect of PRP, and they focused on its concentration. Low level PRP was effective, on the contrary, high level PRP is more likely to inhibit healing. It is very important factors about this research, so please mention about it in the discussion. 3. As the authors pointed out, further research is needed to confirm the safety and effectiveness of PRP on human bowel anastomoses, and to transfer the human clinical study. How much blood sample is needed to obtain the required PRP? 4. Although platelets aggregation occur early in the healing process of bowel anastomosis in inflammation period, thrombocytopenia becomes a risk factor for anastomosis leak?