### PART A:

<table>
<thead>
<tr>
<th>Description</th>
<th>Information</th>
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<tr>
<td>Journal Name:</td>
<td>British Journal of Medicine and Medical Research</td>
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<tr>
<td>Manuscript Number:</td>
<td>MS: 2012/BJMMR/1547</td>
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<tr>
<td>Title of the Manuscript:</td>
<td><em>Short Communication</em> <em>Metabolic endotoxemia and inhibition of direct bone regeneration: a pilot study.</em></td>
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<tr>
<td>Manuscript received on (Date):</td>
<td>May 11, 2012</td>
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<tr>
<td>Review comment submitted (Date):</td>
<td>May 22, 2012</td>
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**General comment:**
This manuscript is concern with the metabolic endotoxemia and inhibition of direct bone regeneration. The authors infused LPS continuously by Alzet osmotic pump and tested bone repair during distraction osteogenesis in mouse model. The radiographic and the histologic results indicate that bone formation during distraction osteogenesis was significantly decreased in LPS treated versus vehicle treated mice. The authors concluded that these results supported the hypothesis that LPS exposure could partially mediate the inhibition of direct bone repair due to chronic inflammation. They are interesting results. However, there are some changes which would result in an improvement of the manuscript.

**Specific comments:**
The authors reported that the serum TNF levels at harvest were not significantly higher in the LPS group vs. the controls. They discussed the reason why TNF level was not higher than control by referring the previous reports. However, it is questionable if the mice had inflammation in this study, and the authors should show the data that these mice had inflammation.

**Title and abstract**
No comments

**Introduction**
It is questionable if this LPS infusion model with Alzet pump is appropriate in clinical situation. The authors need to show what kind of clinical disease the authors consider with this infusion model?

**Review of literature (Heading may differ in the case of review paper)**
No comments

**Materials & methods (Heading may differ in the case of review paper)**
It is not clear where the authors infused the solution from the Alzet pump and the authors should write the detail. Although one type of the Alzet pump has only one infusion speed, the authors should write the infusion rate in the manuscript.
### Results & discussion
(Heading may differ in the case of review paper)

If the authors could indicate the inflammation phenomina in the histological sections, they do not need to show more data. If not, the authors need to consider the method how to prove that the mice had inflammation in this study. The authors referred that serum TNF level was peaked at day 3 and were not detected at day 21 post tooth extraction. However, the tooth extraction was only one time surgical stimulation and the situation was different from continuous stimulation with the bone distraction. The authors should discuss the difference between the bone distraction and the tooth extraction.

### Conclusion
No comments

### References
No comments

**Note:** This Reviewer preferred to be anonymous