Reviewer's report

Title: Value of Procalcitonin for Detection of bacterial peritonitis: A systematic review and meta-analysis

Version: 2 Date: 28 April 2014

Reviewer: Mihai Mares

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Major Compulsory Revisions

1. Comparative data about procalcitonin significance in fungal peritonitis must be added. The authors should describe how the aetiology of peritonitis is linked with the procalcitonin level and if not, how the discrimination between bacterial and fungal peritonitis can be done. Fungal peritonitis are quite uncommon, but can occur in peritoneal dialysed patients.

2. Title is not very clearly formulated ("Significance of serum procalcitonin as biomarker for detection of bacterial peritonitis" could be use instead).

3. According to Spahr et al. (2001), "Procalcitonin is not an accurate marker of spontaneous bacterial peritonitis in patients with cirrhosis" - Hepatogastroenterology, 48(38):502-505. Is this compatible with their conclusion?

Minor Essential Revisions

1. The words spelling must be revised (e.g. "ascitic", not "ascetic" etc.).

2. Use abbreviations only after the word was first full-typed in the text.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.