Reviewer’s report

Title: Biological inflammatory markers mediate the effect of preoperative pain-related behaviours on postoperative analgesics requirements

Version: 2 Date: 19 Nov 2015

Reviewer: Argyro Fassoulaki

Reviewer’s report:

Methods
-Page 5

-Lines 15-25: I do not agree that "each time patient asks for an analgesic" represents the analgesic requirements. Analgesic requirements are multifactorial and the number of analgesic requirements depends primarily on the type, the pharmacokinetics and pharmacodynamics of the analgesic(s) used. You defined "patients' requests" for analgesia as primary endpoint. I consider this a limitation or a disadvantage for the study. A relevant comment must be included in the Discussion, the limitation paragraph.

Results
Page 8

-Lines 17-35: Delete. You may add the number of patients who received opioids in the operating room and PACU in table 1.

Figure 2
Delete. This information is available in the text, pages 8 (bottom) and 9 (top). Avoid duplicating results.

Argyro Fassoulaki, MD, PhD, DEAA

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.
Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**

If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

**Quality of written English**

Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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