Reviewer's report

Title: Injurious mechanical ventilation causes kidney apoptosis and dysfunction during sepsis but not after intra-tracheal acid instillation: an experimental study.

Version: 1  Date: 7 April 2014

Reviewer: Antonio Seguro

Reviewer's report:

Major compulsory revisions:
1- Data of all parameters of normal rats submitted to LVt and HVt must be added to this paper and compared with acid treated and sepsis groups
1- The authors must explain why plasma creatinine is elevated in Acid LVt and Acid HVt groups if the creatinine clearance of these groups were not decreased.
3- A study of Campos R. et al: N-acetylcysteine prevents pulmonar edema and acute kidney injury in rats with sepsis submitted to mechanical ventilation. Am J Physiol Lung Cell Mol Physiol 2012; 302:L640-L650 demonstrated in the same model of sepsis that septic rats submitted to LVt presented pulmonar edema evaluated by edema index and wet-to-dry lung weight ratio, increased lung tissue polymorphonuclear neutrophilis and oxidative stress when compared with control. In the present article the authors did not related an increase in lung injury score in the septic group. It is interesting to discussed these different findings.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
'I declare that I have no competing interests'