Reviewer's report

Title: N-acetylcysteine attenuates cardiopulmonary bypass-induced lung injury in dogs

Version: 1 Date: 21 December 2012

Reviewer: Sen Zhang

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Major Compulsory Revisions
The paper entitled 'N-acetylcysteine attenuates cardiopulmonary bypass-induced lung injury in dogs' is a study designed to observe the effect of NAC on CPB induced lung injury. The investigators have shown that the expression of TGF#1 is upregulated in CPB-induced acute lung injury in dogs. In this study, they found that the antioxidant, NAC which is able to prevent CPB-induced pneumocyte apoptosis through scavenging radical, may also exert anti-CPB induced lung injury through regulating the expression of TGF beta 1.

It is a well designed study and the results indicate NAC may be a protector in the CPB induced lung injury. The English is readable although the authors are not native speakers.

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

Quality of written English: Acceptable

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.