Reviewer’s report

**Title:** Low dose gaseous ozone inactivates antimicrobial-resistant bacterial growth

**Version:** 1  **Date:** 15 August 2012

**Reviewer:** Robert J Sherertz

**Reviewer’s report:**

This paper provides important preliminary data that the use of a mixture of ozone and oxygen may be an effective surface disinfectant for environmental surfaces and/or wounds.

**Major Compulsory Revisions:**

1. In the results section a sentence needs to be added that the differences between the Ozone/O2 treatment group and the other groups are statistically significant.

2. In the discussion, comments need to be made about potential toxicity to human mucosal surfaces (especially lungs) in relationship to its potential use as an environmental disinfectant in patient rooms, as this is limitation of one of the commercially available existing technologies.

3. Similarly in the discussions, comments need to be made about potential toxicity to wounds.

**Minor revisions:**


Page 5, spelling “oxacilin”.

Discussion: “although Acinetobacter had a proliferative capacity superior to the other bacterial strains” – reword using “greater inoculum”.

Page 9, “61 patients with diabetic foot” ______

Page 10, “It is important to note that the effect of ozone in the treatment of wounds may depend on a number of” – finish the sentence.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

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

**Declaration of competing interests:**
No conflicts of interest.