Reviewer’s report

Title: Assessment of a Continuous Blood Gas Monitoring System in Animals during Circulatory stress.

Version: 2 Date: 28 July 2010

Reviewer: Werner Pajk

Reviewer’s report:

1. Is the question posed by the authors well defined?: YES
2. Are the methods appropriate and well described?: YES
3. Are the data sound?: YES
4. Does the manuscript adhere to the relevant standards for reporting and data deposition?: YES
5. Are the discussion and conclusions well balanced and adequately supported by the data?: YES
6. Are limitations of the work clearly stated?: YES (mostly - see minor revisions)
7. Do the authors clearly acknowledge any work upon which they are building, both published and unpublished?: YES
8. Do the title and abstract accurately convey what has been found?: YES
9. Is the writing acceptable?: YES

- Major Compulsory Revisions: NONE
- Minor Essential Revisions: YES
  1. The authors should mention the hazards of arteriovenous shunting of blood - especially of clinical importance in critically ill patients with low cardiac output.
  2. A schematic drawing of the measurement device would clarify the methodological part of the paper.
- Discretionary Revisions: NONE

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:

- Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this paper, either now or in the future?: NO
- Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this paper, either now or in the future?: NO
- Do you hold or are you currently applying for any patents relating to the content of the manuscript? Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?: NO
- Do you have any other financial competing interests?: NO
- Do you have any non-financial competing interests in relation to this paper?: NO