Reviewer’s report

Title: Transcapillary fluid flux and inflammatory response during neonatal therapeutic hypothermia: an open, longitudinal, observational study

Version: 0 Date: 14 Apr 2016

Reviewer: Sigrun Lange

Reviewer’s report:

This article aids to further understanding of hypothermia treatment in neonates and reports new findings regarding the effects of TH on colloid osmotic pressures. An association with inflammatory processes during TH is also assessed.

Some minor comments:

1) The keywords should include "inflammation" or "cytokines"

2) The n of included patients is 17, table 2 is the only place in the manuscript describing sex distribution - this should be mentioned in the text, in material and methods. Also, I would like to see some further comments in the discussion regarding sex-difference dependent responses (inflammatory markers, osmotic pressures, response to TH treatment) if observed, as this is an important topic.

3) All figure legends should be more concise so they can be "stand alone" without having to read the whole manuscript.

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.

Yes

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 am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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