Reviewer's report

**Title:** Comparison of tricuspid inflow and superior vena caval Doppler velocities in acute simulated hypovolemia: New noninvasive indices for evaluating right ventricular preload.

**Version:** 1 **Date:** 12 April 2006

**Reviewer:** Christina Petersen

**Reviewer's report:**

This is an important, original, and well executed study with potentially clinically relevant implications. I have only very minor suggestions that the Authors might wish to address:
- The figures are very nice. I would add a figure showing the experimental setting (how the lower body negative pressure is induced) and the transducer approach for imaging superior vena cava flow (which may be unfamiliar to many readers).
- I would also add 2 additional figures with: 1) the correlation between magnitudes of LBNP (x-axis) and S wave of SVC flow (y-axis); 2) the correlation between magnitudes of LBNP (x-axis) and E-wave of tricuspid inflow (y axis).
- Please, correct minor spelling mistakes: page 4, last line: investigators; page 5, 5 lines before the end: no other

**What next?:** Accept after discretionary revisions

**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.