J Anesth (2015) 29:640
DOI 10.1007/s00540-015-2008-x

LETTER TO THE EDITOR

# In reply: Non-invasive cardiac output monitoring during sinus surgery

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Received: 5 February 2015 / Accepted: 17 March 2015 / Published online: 2 April 2015


**Keywords** Hemodynamics · Hypotension controlled · Nitroprusside · Remifentanil

To the Editor:

We appreciate the interest on our article and the comments on the issues raised [1]. Controlled hypotension (CH) is a widely used technique for improving surgical visibility and reducing bleeding. However, there is little information on the detailed hemodynamic changes during CH. CH is not a technique without risks. It must be conducted when the benefits are weighed against the risks of inadequate perfusion [2]. Therefore, we think that a full understanding of the hemodynamic changes is essential for patient safety. In our study, nitroprusside and remifentanil resulted in different hemodynamic changes, but cardiac output during CH was maintained at baseline levels in both groups.

It is a limitation of our study not to evaluate surgical visibility or local bleeding. We were of the opinion that bleeding is affected both by anesthetic factors (blood pressure, anesthetic agent, etc.) and by surgical factors (vascularity, anatomic variation, etc.). As it was difficult to eliminate the bias of surgical factors, the amount of surgical bleeding was not described to avoid providing inaccurate information. Further studies will be needed to clarify these issues.

Respectfully,
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## References

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This comment refers to the article available at doi:10.1007/s00540-014-1962-z.

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