

Comment to Lira-Dale et al.: Effect of intraprostatic epinephrine on intraoperative blood loss reduction during transurethral resection of the prostate

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Dear Editor,

We appreciate the authors for conducting this study on the effect of intraprostatic epinephrine on intraoperative blood loss reduction during transurethral resection of the prostate, but few points need clarification [1]. The authors have shown the benefits on intraoperative blood loss but do not mention whether intraprostatic epinephrine had any benefit in postoperative period. We assume that the vasoconstrictive effect of epinephrine can conceal the bleeding vessels intraoperatively that could have been coagulated and postoperatively as the effect weans off, these patients may have reactionary hemorrhage [2].

Is there any reason why the resected prostatic tissue was less in epinephrine group than the placebo group,

despite larger gland volume in the former? This can bias the results as the intraoperative blood loss is proportional to the resected tissue [3].

Finally, the amount of epinephrine injected into the prostate was fixed, that is, 20 ml. Probably, the effect may vary based on prostate volume, where smaller glands may require lesser dose in comparison with larger ones. We would like to have author's opinion in this context.

References

1. Lira-Dale A, Maldonado-Ávila M, Gil-García JF, Mues-Guizar EH, Nerubay-Toiber R, Guzmán-Esquivel J, Delgado-Enciso I (2012) Effect of intraprostatic epinephrine on intraoperative blood loss reduction during transurethral resection of the prostate. *Int Urol Nephrol* 44:365–369
2. Schelin S, Claezon A, Sundin A, Wagrell L (2004) Effects of intraprostatic and periprostatic injections of mepivacaine epinephrine on intraprostatic blood flow during transurethral microwave thermotherapy: correlation with [15O]H₂O-PET. *J Endourol* 18(10):965–970
3. Aus G, Bergdahl S, Hugosson J, Norlén L (1994) Volume determinations of the whole prostate and of adenomas by transrectal ultrasound in patients with clinically benign prostatic hyperplasia: correlation of resected weight, blood loss and duration of operation. *Br J Urol* 73(6):659–663

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