Reviewer's report

Title: Bladder sensory desensitization decreases urinary urgency

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Reviewer: Yasuhiro Igawa

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General
This is an excellent proof of concept study to determine whether desensitization of bladder sensory complex by intravesical instillation of resiniferatoxin (RTX) can improve urinary urgency in patients with overactive bladder syndrome (OAB). The authors have clearly provided the data supporting the concept.

I have the following questions and comments:

1. page 5, Methods. What are the inclusion criteria of OAB to enter this study?
2. Methods. Among 23 patients with refractory OAB enrolled in this study, how many patients had neurogenic origin and how many patients were classified as idiopathic?
3. Were there any differences in the effect of RTX on OAB symptoms (urgency, urgency incontinence and frequency) between idiopathic and neurogenic OAB groups?
4. Fig. 2. Are the differences between vehicle and RTX in percentage of patients with a 25% or more decrease of urgency episodes and in percentage of patients with subjective improvement statistically significant?
5. Kuo HC reported that a significant increase in postvoid residual after multiple intravesical instillation of RTX (10nM) in patients with detrusor overactivity refractory to anticholinergics (BJU Int, 2005; 95(7): 1023-7). How about the changes in voiding efficacy and postvoid residual after RTX treatment in the present study?
6. page 5, line 2, "effect of RTX in urgency " can be corrected to "effect of RTX on urgency".

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.

Declaration of competing interests:
I declare that I have no competing interests.