Author’s response to reviews

**Title:** Abnormal Cisatracurium Pharmacodynamics and Pharmacokinetics among Patients with Severe Aortic Regurgitation during Anesthetic Induction

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Q: 1. How were the pharmacodynamic data downloaded from the TOF Watch? downloaded electronically? then what was the program used or by hand using a pencil and paper?

A: The TOF data were downloaded from the TOF watch electronically by using TOF-Watch SX Monitor (version 2.2 int).

Q: 2. The Pharmacodynamic parameters used are totally incorrect so please consult the latest Consensus Conference parameters derived from the T1% and the TOF ratio (they are not the same thing) and please do not invent your own Pharmacodynamic parameters

A: After consideration of the reviewer’s comment, we removed the ‘neuromuscular blockade percentage’ and its corresponding figures. We added a new figure 5 and onset time is the only PD parameter we use.

Q: 3. Your discussion is almost half a page you need to go deeper in your topic and further research the subject or change your submission to a letter/correspondence/short communication something like that
A: We revised the Discussion section according to the reviewer’s comment. Below is the discussion of the study limitation we added.

A potential limitation of this study is that we do not have the post-operative PK and PD parameters of intravenous bolus of cisatracurium because it is against ethical code and clinical practice protocol to repeat the test in the severe AR patients with the only purpose of collecting data. Our inferences of the impact of severe AR on PK and PD will be proved if pre-operative and post-operative parameters of PK and PD are found to be statistically different. Therefore, it’s worth to investigate in the future whether patients who had aortic valve replacements before will present normal cisatracurium PK and PD characteristics when they undergo non-cardiac surgeries.