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## **Response to the reviewers' comments**

### **Reviewer 1**

#### **SPECIFIC COMMENTS TO AUTHORS**

Through the manuscript some type errors should be corrected by authors.

Title: The title of the manuscript is OK. Abstract: It is structured according to the format for case report. But, major corrections must be done in this section. In "Background" authors should include their statement why this case should be reported.

**Response:** We have added a sentence to indicate the importance of this case. "Here we present the first case of TN treated with gasserian ganglion nerve coblation." The full text has also been embellished by a native English speaker.

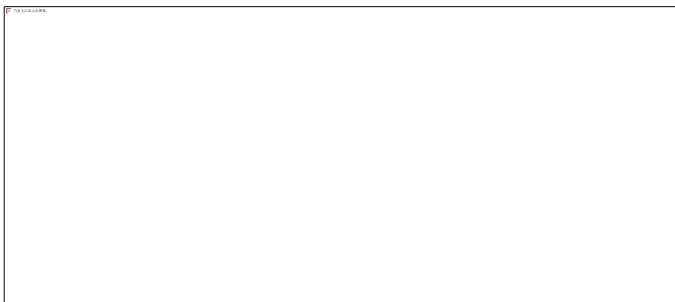
In "Case summary" authors should introduce a brief description of the patient's clinical and demographics details, the diagnosis, intervention and the outcomes.

**Response:** We have now added more details in the Case summary to capture the requested information.

In "Conclusion" must be included a brief summary of the clinical impact of this new treatment method ( new interventional technique) for trigeminal neuralgia. Core tip: In this part of the manuscript should be added innovative and important findings of this case report.

**Response:** We have revised the Conclusion and the Core tip accordingly to reflect the clinical impact of this new treatment method.

Introduction (should be changed as "Background"): is OK.



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**Response:** This change has been made accordingly.

Case report: is OK Discussion: is OK Conclusion: is OK Acknowledgement: Should be included References: are OK

**Response:** The acknowledgement section has now been included.

## **Reviewer 2**

### **SPECIFIC COMMENTS TO AUTHORS**

In this study, the authors reported a clinical case about the efficacy of gasserian ganglion nerve coblation by CT-guided in the treatment of patient with trigeminal neuralgia. The treatment was so effective that the nerve pain were disappeared entirely after surgery. However, there are still some issues within the study.

1. Although the authors reported a good clinical case, but the surgery of trigeminal coblation via CT-guided was very common, so what is the important meaning the author want to express? The authors should add it in the conclusion.

**Response:** We have revised the conclusion. This is the first report of using NC for TN.

2. As we known, the trigeminal neuralgia is easy to relapse within one year after regular surgery which include radiofrequency thermal coagulation and balloon compression etc. The authors should further clarify the advantage of nerve coblation strategy.

**Response:** We have acknowledged within the manuscript that we have only followed up the patient for 6 months. Furthermore, we have highlighted the need for assessing more patients and for longer periods of time.

## **Reviewer 3**

### **SPECIFIC COMMENTS TO AUTHORS**



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This case-report describes a new surgical approach for treatment of trigeminal neuralgia. The authors showed the efficacy of this procedure over a fairly long period, however some criticisms need to be highlighted. First of all, the manuscript needs a broad linguistic revision.

**Response:** We appreciate this comment from the reviewer and now the full text has been embellished by a native speaker.

Also given the novelty of the technique, ethics procedures should be addressed better in the manuscript.

**Response:** Gasserian ganglion nerve coablation is a minimally invasive procedure involving very low risks to the patient. We have included the related ethical statement in the manuscript.

It should be clearly stated if the patient did not report any adverse effect during the follow-up.

**Response:** The patient reported no adverse effect during the follow-up except mild numbness of the right zygomatic and alveolar. We have added this information in the manuscript.

Minor comments: page 4 - Introduction: reference the first sentence

**Response:** A reference has been cited here.

page 4 - Introduction - 2nd paragraph - line 5: spell out "CT" here

page 4 - Case Report - line 6: correct "eating"

page 5 - Case Report - line 3: correct "movemoment"

page 5 - Case Report - line 4: spell out "MRA"



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page 5 - Treatment and effect: spell out "PET" and "RFT"

page 5 - Treatment and effect - 2nd para: "Intravenous drip of 5ug sufentanil to relieve pain before puncture.". It misses the verb.

page 6: "patient was pasted"???

page 6: "Seral followed up 3 days after surgery" rephrase

page 6: "Seral followed up at 1, 2, 3 and 6 months after surgery, pain VAS scores were 0 and numbness scores were level I." rephrase

**Response:** We thank the reviewer for noticing the errors which have now been corrected.