Author’s response to reviews

Title: Paranasal sinus air suction for the treatment of acute migraine – A randomized, double blind, pilot Study

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Thank you for the reviews

Reviewer reports:

Michael J Marmura (Reviewer 3): The changes in the manuscript improve the quality of the study. No treatment for migraine is close to 100% effective. In future studies please make sure to include 1, 2 hour pain relief, pain freedom, 24 hr sustained relief/headache freedom, relief of most bothersome symptom etc.

Thank you. I have mentioned in the manuscript regarding future studies to evaluate the safety, side effects and efficacy of a portable low grade air pressure suction device that can be used in a day to day life, adverse effects of paranasal air suction procedure and to assess how long beneficial effects/pain relief last after air suction procedure using multiple measurements over 24 hours. This has been already started.
Change "Since the study is not based on long term follow up of patients, it cannot be concluded that paranasal air suction can be used as an alternative treatment for acute migraine, but this study could be helpful to develop hypothesis on the patho-physiology of migraine." to We did not assess pain outcomes beyond 60 seconds, but the initial responses suggest the need to further study the efficacy of paranasal suction in migraine.

changed

Change "Medications have been used to treat migraine that significantly reduce the suffering of migraine patients, but usually takes more than half an hour to respond" to "Oral medications for acute migraine typically take more than 30 minutes to become effective"

changed

How common is supraorbital tenderness in general (healthy subjects)? I would think most people would find this bothersome and would say that this is extremely common in migraine rather than a diagnostic tool for migraine.

I agree. I have removed the statement regarding using supraorbital tenderness for the diagnosis of migraine in the last revision. Here we have only taken it as a sign to see the efficacy of our intervention, not as a diagnostic tool.

Remove the sentence "We did not have to stop the procedure in any patient due to patients complains."

Removed
Remove the sentence "Findings of this study can also be helpful to develop hypothesis on the patho-physiology of migraine."

Removed