Author's response to reviews

Title: Effects of MTHFR gene polymorphism on the clinical and electrophysiological characteristics of migraine

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Author's response to reviews: see over
Dear Editors,

We submit here our revised MS entitled "Effects of MTHFR gene polymorphism on the clinical and electrophysiological characteristics of migraine" by Aimova et al. for publication in *BMC Neurology*.

**Response to the reviewers’ reports**

Thank you very much for your reviewers’ reports which was very useful for us. We revised our manuscript according your comments.

Allow us to response to the comments.

**To comments of Dr Elisa Rubino review:**

We thank the referee for carefully reviewing our paper.

We have introduced amendments into the following sections of the manuscript: «Patients and methods», «Results» and «Discussion».

Below please find our response to the referee’s queries.

1. Brief characterization of patients is added to the abstract.
2. Section «Results» is supplemented with genotyping data. Now it indicates that the allele T frequency is significantly higher in the patient group as compared to the control group.
3. The wording «resistant migraine» is changed for «refractory migraine».
4. The «Discussion» section is updated, so that the clinical impact of MTHFR polymorphism is discussed in greater details.
5. The embarrassing mistakes have been corrected, and English of the article is edited and checked out by an individual who is fluent in English.

**To comments of Dr Gretchen E Tietjen review:**

We thank the referee for carefully reviewing our paper.

We have revised the manuscript and introduced amendments into the following sections of the manuscript: «Patients and methods», «Results» and «Discussion».

Below please find our response to the referee’s queries.

We have corrected the title.

The size of the «Background» section is reduced.

The objective of the paper is made much clearer.

Section «Patients and methods» has been revised. The description of patient selection process is now given in more details.
Section «Results» is now supplemented with genotyping data, and the difference between the groups with regard to T allele carrier state is pointed out. Other referee’s comments on this section have been taken notice of.

The «Discussion» section has been amended considerably.

The references in the text were checked against those in the reference list.

The misprints and stylistically awkward phrasing are corrected, and English of the article is edited and checked out by an individual who is fluent in English.

Yours sincerely,

Eugene Klimov.