

Review of: "MTHFR and LC, CFS, POTS, MCAS, SIBO, EDS: Methylating the Alphabet"

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Potential competing interests: No potential competing interests to declare.

Major comments:

The Author tried to cover a vast field. In this attempt, he has named Long Covid as an entity. Moreover, in an attempt to cover so many different types of diseases/syndromes, the write up got mixed up. MTHFR is an important enzyme involved in methation/DNA synthesis cycle. However, the author has preferred to mention it as a disorder which sound weird. It would be better to revise the Ms. keeping in mind these points as well as those mentioned below:

1. Keywords has to be revised .
2. A brief overview about the folate and methionine cycle and the specified function of the MTHFR in these pathways controlling the methylation status should be mentioned more elaborately in the initial part of the 'discussion' section 1 'MTHFR and methylation'.
3. The review article is informative and contain a vast information. However, the language used need to be edited for grammatical errors and writing style. The language should be more scientifically oriented.
4. A brief overview about the stated diseases/disorders i.e., LC, CFS, POTS, MCAS, SIBO, and EDS should be incorporated initially in the section 4. Moreover, all these abbreviations should be elaborated in the first occurrence.
5. Reference should be added to support the statement "EDS is clearly genetic" in the section 4.4 line 1 and other places.
6. MAO is not defined.
7. Please rephrase the statement "Knowing one's MTHFR status is not necessary" in the section 6 as the article is stating the importance of the MTHFR polymorphisms on human health.
8. The last paragraph of the section 6 should be revised and should contain more scientific data about clinical research to emphasize the therapeutic implications of the micronutrients on the disease or syndromes mentioned .