Reviewer's report

Title: Quantitative MRI analysis in children with multiple sclerosis: A Multicenter Feasibility Pilot Study

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Reviewer: Sarlota Mesaros

Reviewer's report:

Major Compulsory Revisions:
This article did not provide any novelty in the neuroimaging field. Feasibility of the multicentre assessment of MRI lesion load in MS is already wide known. I would not accept that specificity of investigated population, i.e. pediatric MS brings some important information in this sense. Furthermore, authors have just assessed T2LV and T2 lesion size which is quite poor outcome of the multicentre study in this field. They did not even studied T1LV, supratentorial and infratentorial LV, as well as some more advanced measures, i.e. juxtacortical, periventriculal, infratentorial or deep white matter lesions, as well as gray matter lesions. Moreover, it would be much interesting to assess damage in NAWM using DT, TBSS or to assess brain atrophy in this cohort of patients. The association found with T2LV and non-white population has been discussed quite speculative.

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests.