Reviewer's report

Title: Metabolic dysfunctions in Multiple Sclerosis: implications as to causation, early detection, and treatment, a case control study

Version: 4 Date: 31 July 2015

Reviewer: Gerwyn Morris

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The study is well designed and well conducted. My issue is that there is no real attempt to relate the findings to other studies in the field. For example these results could be secondary to elevated oxidative stress induced mitochondrial dysfunction and the upregulation of antiapoptotic genes. I should like to see these matters addressed in the introduction and discussion as well as some alternative explanations for their findings.