Reviewer’s report

Title: Increased leptin and A-FABP levels in relapsing and progressive forms of MS

Version: 2 Date: 23 July 2013

Reviewer: Vladimir Trajkovic

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Major compulsory revisions:

1) The authors should explain the choice of leptin and A-FABP as variables to be followed together in MS. Is there any direct or indirect relationship between these two adipokines, except that they are both produced by adipocytes?

2) Discussion, 10th paragraph - it is not clear, at least to this reviewer, why the positive correlation between A-FBP and leptin would suggest "a possible reciprocal influence of these adipokines in the early stage of the disease". Actually, rather the opposite could be the case, i.e. that they cooperate in disease development through a positive feedback.

3) The authors should explain in more detail how their findings add to previously published data on the leptin involvement in MS.

Minor Essential Revisions:

1) Were the data normally distributed after log transformation?

2) The data on leptin/A-FBP correlation in different MS groups should be presented in a table.

Discretionary Revisions:

1) Did the authors measure the levels of ghrelin, a well known antagonist of the metabolic and proinflammatory actions of leptin?

2) Did the authors try to correlate leptin and A-FABP levels with those of the cytokines proposed to be involved in MS (IL-17, IFN-gamma, TNF...)?

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

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