Reviewer’s report

Title: Reversal of Fibrosis in Patients with Nonalcoholic Steatohepatitis After Gastric Bypass Surgery

Version: 0 Date: 22 Dec 2016

Reviewer: Geltrud Mingrone

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The paper of Parker et al. examines the effect of gastric bypass on liver function and histology.

I have some major comments:

The modality to select the patients with NASH who have been restudied after bariatric surgery is unclear to me. In the result section the Authors state that "26 (25%) patients had NASH without fibrosis or with stage 1 or 2 fibrosis; and 11 (10%) patients had NASH with stage 3 or 4 fibrosis". Therefore, 37 patients had NASH. However, just few lines above it is stated that "A subset of the 45 patients with histologically diagnosed NASH was re-evaluated once patients lost 60% of their preoperative excess weight or weight loss plateaued after surgery". Which is the number of patients with NASH, 37 or 45?

Lines 236-240: Again, why the figures of NASH histological modifications are not referred to the entire sample (i.e. 12/15 instead of 12/13 and so on)?

Table 3 is misleading. In fact, it seems that 11 out of 27 patients with NASH diagnosed at the time of the intraoperative liver biopsy had still steatosis at the follow up and so on. I would suggest to report only the histological features of the patients who had liver biopsy both at the baseline and after surgery.

Table 4 is unclear, if the Authors want to keep it then they should also report the individual histological features for all the 15 patients examined.

In Table 6 the Odds Ratio was significant only for AST, ALT, ALK, however the multivariable model included AST, ALT, ALK, bilirubin, albumin, PT and ICG. I don't believe it is a correct procedure and a statistician should give his/her opinion.

I would like also to recommend to discuss the important results reported in the papers of


And of
Minor comments:

Line 165 Wilcoxon instead of Wilcoxin.

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

No

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

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Acceptable

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