

COMMENTS TO AUTHORS

Bariatric surgery is currently the most efficacious treatment for obesity and its associated metabolic co-morbidities, such as diabetes. The metabolic improvements occur through both weight-dependent and weight-independent mechanisms. Bile acids (BAs) have emerged as key signalling molecules that have a central role in modulating many of the physiological effects seen after bariatric surgery. This manuscript is interesting, and figures are so nice and clear. Main concern: So far, the role of BAs in reducing the metabolic complications of obesity following bariatric surgery has been assessed by "NC Penney, J Kinross, RC Newton and S Purkayastha" in the paper of "The role of bile acids in reducing the metabolic complications of obesity after bariatric surgery: a systematic review". The novel scientific question proposed in the current manuscript is not so clear.

Response:

Our article and the review by Penney et al. concern similar topics, however the review by Penney et al. summarized the results regarding the role of BA and FXR and TGR-5 receptors in: a) regulation of BA, lipid and energy metabolism, b) glucose homeostasis, c) incretin and other gut satiety hormones production and d) endoplasmic reticulum stress following bariatric surgery. The goal of this review is to focus on a) BAs biosynthesis in liver, b) BAs biotransformation in gut and enterohepatic circulation, and c) the potential role of increased circulating BA concentrations and alterations of gut microbiota in improvement of glucose metabolism and subsequently in T2DM remission following bariatric surgery. In other words, this review offer a deeper understanding of the effect of bariatric surgery on T2DM remission. This was stated in revised manuscript (page 7 lines 22-31), and the objective of our review has been summarized in last sentence in the abstract. Thus, both articles vary considerably.

Reviewer's code: 02445426

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This review article on the improved glucose metabolism following bariatric surgery is easy to read, well-organized and provides useful information for the readers. Particularly, the figures are very nice demonstrating mechanisms by which bariatric surgery improves glucose metabolism through modification of bile acid metabolisms.

Response:

Thank you very much for positive comment.

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Response:

Thank you very much for positive comment.

Reviewer's code: 03646817

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nice review.

Response:

Thank you very much for positive comment. The article has been corrected by was proof-read and corrected for grammar and style by a professional native English speaker (see attached certificate).