

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 83890

**Title:** Fibroblast growth factor 15, induced by elevated bile acids, mediates the improvement of hepatic glucose metabolism after sleeve gastrectomy

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06519558

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-03-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-03-10 03:26

**Reviewer performed review:** 2023-03-13 02:27

**Review time:** 2 Days and 23 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The authors have certainly conducted an interesting and original study with complete statistical studies. Over the past several decades, Roux-en-Y gastric bypass and sleeve gastrectomy represent the two most commonly performed procedures of bariatric surgery. However, SG has replaced RYGB as the choice for the majority of surgeons all over the world, the underlying mechanisms are still far from fully elucidated. In this study, authors conducted a study among obese diabetic rat model to explore the mechanism of improvement of hepatic glucose metabolism by elevated bile acids after sleeve gastrectomy. Their conclusion was that sleeve gastrectomy improves the hepatic glucose metabolism and alleviates T2DM through the BAs-FXR-FGF15-FGFR4 pathway. Comments/suggestions: 1- Title and key words - well chosen. 2- The abstract summarized and reflect the described in the manuscript. 3- Introduction contains the most important data to support the importance of the study. 4- Material and methods - the paragraphs are generally well structured and explained. 5- Results section is well and clearly presented with pertinent statistics. 6- Discussion paragraph is well organized, and authors also presented also the limitations of the study. 7- Good quality of the

Figures. 8. References –cited little recent literature, Please add some relevant research articles published in the past three years.

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**Peer-review model:** Single blind

**Reviewer's code:** 06520270

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-03-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-03-08 03:22

**Reviewer performed review:** 2023-03-14 08:53

**Review time:** 6 Days and 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### SPECIFIC COMMENTS TO AUTHORS

The article with the title “FGF15, Induced by Elevated Bile Acids, Mediates the Improvement of Hepatic Glucose Metabolism After Sleeve Gastrectomy in a Diabetic Rat Model” is in generally well done. The design is smart and elegant. Overall, the work is well-written and the results are quite interesting. The figures help the readers to make a more understanding of the study. However, some concerns have been noted including: ·References need to be supplemented with articles in recent years. ·A supplementary scale bar is required in Figure 3. ·Please explain the full name of the abbreviation when it first appears in the text. ·Please explain the clinical impact of the current results.