

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Meta-Analysis*

**Manuscript NO:** 80105

**Title:** Pancreatic Fat in Type 2 Diabetes: Causal or Coincidental?

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

**Peer-review model:** Single blind

**Reviewer's code:** 03460306

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor

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

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

**Manuscript submission date:** 2022-09-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-09-24 06:20

**Reviewer performed review:** 2022-09-24 07:06

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input checked="" type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

This is a review article regarding the association between pancreas fat and type 2 diabetes. The review was written concisely but rather superficially. There are some comments. 1. There are discrepancies between the Epidemiology section and Pathophysiology section: The authors stated that “the prevalence of pancreatic steatosis was independent of age and sex” in Epidemiology but that “age and male sex are other risk factors for NAFLD” in Pathophysiology. The authors also stated that “BMI and waist circumference did not have any association with pancreas fat” in Epidemiology but that “obesity has been implicated as the most important risk factors for NAFLD” in Pathophysiology. 2. There are cons and pros on the causal role of pancreas fat on type 2 diabetes. Studies in section 4 should be summarized in a table. 3. There are a number of previous reviews on this topic. The authors should state the novelty of this review in the manuscript. 4. The search criteria is unclear. A flow chart of literature selection should be presented.

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**Title:** Pancreatic Fat in Type 2 Diabetes: Causal or Coincidental?

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

**Peer-review model:** Single blind

**Reviewer's code:** 02959015

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2022-09-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-09 08:14

**Reviewer performed review:** 2022-10-17 09:35

**Review time:** 8 Days and 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<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
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<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

I suggest: The authors should investigate the risk reported in the literature between pancreatic cancers and non-alcoholic fatty pancreas disease. Which may be the pathophysiological mechanisms that determine it. They should also highlight the diagnostic difficulty of the diagnosis of non-alcoholic fatty pancreas disease, both from the serological point of view (often it is not associated with an increase in pancreatic enzymes) and instrumental, and how CT and MRI or MR spectroscopy (MRS ) are not very usable investigations as screening. The authors should describe that the sensitivity of the ultrasound is low. The authors should investigate the risk reported in the literature between pancreatic cancers and non-alcoholic fatty pancreas disease. Which may be the pathophysiological mechanisms that determine it. They should also highlight the diagnostic difficulty of the diagnosis of non-alcoholic fatty pancreas disease, both from the serological point of view (often it is not associated with an increase in pancreatic enzymes) and instrumental, and how CT and MRI or MR spectroscopy (MRS ) are not very usable investigations as screening. The authors should describe that the sensitivity of the ultrasound is low. Bibliography does not respect the indications of the journal.