

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63455

Title: Diabetes and pancreatic cancer: Exploring the two-way traffic

Reviewer's code: 05409886

Position: Peer Reviewer

Academic degree: PhD

Professional title: Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2021-01-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-03-31 02:05

Reviewer performed review: 2021-04-01 07:14

Review time: 1 Day and 5 Hours

Scientific quality	<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 Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

In the present review, the authors systematically illustrated the relationship between diabetes and pancreatic cancer from many aspects. Besides, they also conclude the impact of various antidiabetic drugs on the risk of PC and the effects of glycaemic status on the treatment outcome of pancreatic cancer. Based on these discoveries, an effective screening tool for PC may be generated. 1. A brief conclusion about definition and classification of diabetes is lacking in the introduction, especially to focus on type 2 diabetes, long-standing diabetes and new onset diabetes. In addition, the introduction section is too brief, so you should add more background information, such as the main clinical treatment strategies of diabetes and pancreatic cancer, as well as main obstacles and difficulties during the diagnosis and treatment. 2. Please list some research papers or reviews to confirm the consistent risk association between PC and diabetes, but not only depend on the meta-analysis. 3. Please briefly introduce the definition of chronic pancreatitis (CP). 4. "In a meta-analysis including fifteen studies (8970 patients) the incidence of NOD was 30% and the prevalence increased after 5 years of CP diagnosis." Please note the references of this sentence. 5. Please ensure your table fonts are capitalized. 6. Please ensure the clarity of the text in the picture, and you can add more pictures in appropriate position to summarize the interaction between diabetes and PC. 7. "Currently the evidence is clear that diabetes has an unfavorable impact on the overall outcome of PC, particularly after surgery. Both long-standing diabetes and NOD are associated with poor prognosis." Please note the references of these points. 8. In the last summary and conclusion section, you should add more discussion about the clinical application potential based on the above discoveries. For example, how to use the epiphenomenon of different types diabetes to generate an effective screening tool for PC. Besides, how to halt or delay the occurrence or progression of PC in a patient with diabetes also should be discussed. Please revise the contents to improve the sections.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63455

Title: Diabetes and pancreatic cancer: Exploring the two-way traffic

Reviewer's code: 05268902

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Research Scientist, Attending Doctor, Instructor, Lecturer, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2021-01-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-04-01 12:52

Reviewer performed review: 2021-04-11 12:14

Review time: 9 Days and 23 Hours

Scientific quality	<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
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

good

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63455

Title: Diabetes and pancreatic cancer: Exploring the two-way traffic

Reviewer's code: 05429165

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: India

Manuscript submission date: 2021-01-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-04-07 03:02

Reviewer performed review: 2021-04-15 16:38

Review time: 8 Days and 13 Hours

Scientific quality	<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
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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 manuscript by Ayan Roy et al discussed the relationship of diabetes and pancreatic cancer. Overall, the topic is interesting and provides some nice summary of the current understandings and research progresses related to this topic. Moderate concerns: 1. The manuscript is overwhelmingly citing meta-analysis results. While solid meta-analysis studies can offer higher statistical power, this type of study comes with its own weakness. The references in this manuscript should be more balanced in citing more single studies. 2. Figure 1 only depicts the possible mechanisms of pancreatic cancer leading to the development new-onset diabetes in pancreatic cancer. There should be another panel depicting the potential mechanisms of long-standing type 2 diabetes leading to PDAC 3. The manuscript is under-weighted on the discussion of early detection of pancreatic cancer in patients with diabetes. Discussion on biomarkers for early detection and/or screening of PC in T2DM should be expanded. Minor concerns: 1. On page 3, the authors stated that pancreatic cancer is an epidemic. Please confirm and cite the reference. 2. Add references for this statement: "the reported relative risk (RR) for developing PDAC in long-term diabetes varies between 1.4 and 2.1" on page 4. 3. Revise this sentence: Diabetes is often the result of the underlying endocrine dysfunction from a pancreatic exocrine disease, known as type 3c diabetes. 4. Check grammar: "The hypothesis includes" on page 8. 5. Revise this sentence: "Recent experimental studies have pointed towards the role of PDAC-associated exosomes in inhibiting the PI3K-Akt-FOXO1 pathway down the insulin receptor signalling causing IR in skeletal muscle" on page 9. 6. Multiple typos, punctuation, and grammar issues throughout the manuscript.