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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 68300

Title: Comprehensive genetic screening reveals wide spectrum of genetic variants in monogenic forms of diabetes (MFD) among the Pakistani population

Reviewer's code: 05665395
Position: Peer Reviewer
Academic degree: MD
Professional title: Director, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Canada

Manuscript submission date: 2021-05-18
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-05-18 12:50
Reviewer performed review: 2021-05-21 00:15
Review time: 2 Days and 11 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [ ] Grade B: Minor language polishing [Y] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

There was a lack of data on monogenic diabetes from Pakistan; therefore this study was designed to determine the genetic variants responsible for monogenic diabetes in the country. The study identified wide spectrum of genetic variants potentially causing monogenic diabetes. The identification of novel variants paved the way for better understanding of genetic landscape and risk factors of monogenic diabetes in the country

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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 68300

Title: Comprehensive genetic screening reveals wide spectrum of genetic variants in monogenic forms of diabetes (MFD) among the Pakistani population

Reviewer's code: 02894577
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Chief Doctor, Chief Physician, Doctor, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Canada
Manuscript submission date: 2021-05-18
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-05-18 11:29
Reviewer performed review: 2021-05-23 06:09
Review time: 4 Days and 18 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

This article aims to determine the genetic variation and frequency responsible for monogenic diabtes in the Pakistani population. This topic is very interesting and the researchers have come to their own conclusions. However, as the author pointed out, there is need for large scale genetic studies on early onset of diabetes in the country. 1.

The inclusion criteria of MODY patients should be supplemented according to the standard of clinical diagnosis and treatment. 2.The word pediatrics in the key words is inappropriate. 3. Maturity Onset Diabetes of the young should be spelled completely when it appears for the first time, and if it appears again, it can be referred to as MODY for short. 4.How about the treatment? The authors should describe the therapy of the patients. 5. The discussion is simple and needs improvement. 6.

Supplementary table S1 is the demographic and clinical characteristics of the 28 participants who chose to sequence the exon group. And the article describes 15 patients from Lahore. The two contradict each other. 7. Supplementary Figure S2 is not clear. 8.

Ensure the accuracy of the reference lists before submitting the manuscript. Some of the references cited in the paper are older studies, and should be replaced by more recent papers.

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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 68300

Title: Comprehensive genetic screening reveals wide spectrum of genetic variants in monogenic forms of diabetes (MFD) among the Pakistani population

Reviewer's code: 03977462
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: China
Author's Country/Territory: Canada

Manuscript submission date: 2021-05-18
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-05-22 14:08
Reviewer performed review: 2021-05-30 15:35
Review time: 8 Days and 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [ ] Grade B: Minor language polishing [Y] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

This manuscript emphasized the importance of monogenic diabetes research and diagnosis in diverse populations and the genetic heterogeneity of patients with monogenic diabetes among different populations. I have some comments. 1) The article changed the topic between MODY and monogenic diabetes throughout the paper, which is confusing. The title and introduction focused on MODY but the sequencing methods was exome sequencing. Since the known MODY genes have been discussed, why use exome sequencing instead of targeted sequencing of MODY genes? If the topic was monogenic diabetes, why not selecting patients for other types of monogenic diabetes such as lipodystrophy and syndromic diabetes? 2) It is now well recognized that KLF11, BLK, and PAX4 are not MODY causing genes, though not reflected in OMIM yet. 3) The detailed ACMG classification criteria of disease-causing variants should be listed. 4) The sequencing method and platform should be described. 5) The variants should be listed by their HGVS nomenclatures. 6) The discussion part mentioned the usage of MODY probability calculator, it would be great to show this part of data while demonstrating the patients information. 7) Has any of the enrolled patients been tested for C-peptide? Other minor errors: 1) The gene name should follow HGNC nomenclature. 2) Numbers below ten should be uniformly written as one digit number.

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Diabetes

Manuscript NO: 68300

Title: Comprehensive genetic screening reveals wide spectrum of genetic variants in monogenic forms of diabetes (MFD) among the Pakistani population

Reviewer's code: 02894577

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Chief Physician, Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Canada

Manuscript submission date: 2021-05-18

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-08-11 06:36

Reviewer performed review: 2021-08-11 07:27

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

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The manuscript has been revised accordingly.