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PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 82297

Title: Maturity-onset diabetes of the young type 9 or latent autoimmune diabetes in adults: A rare case report and a systematic review

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05405614
Position: Editorial Board
Academic degree: PhD
Professional title: Associate Professor
Reviewer's Country/Territory: Nigeria
Author's Country/Territory: China

Manuscript submission date: 2022-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-25 19:40

Reviewer performed review: 2023-01-02 18:26

Review time: 7 Days and 22 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [ ] 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
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The article was well designed and written. Kudos to the authors.

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Reviewer's code: 05752236
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2022-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-27 13:40

Reviewer performed review: 2023-02-14 00:18

Review time: 17 Days and 10 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dear authors firstly, I appreciate your work in this study. It is well-written. But PAX4:c.314G>A variant is classified as VUS (variants of uncertain significance) in databases so its association with disease risk is unclear. According to ACMG criteria it is classified as benign. o PAX4:c.314G>A variant is not novel (it is reported as novel in this report by the authors); it is available in the dbSNP database (rs765561668). o The case that you are presenting has clinical findings related to LADA, but the variant is inherited from the mother. In the manuscript, you notice that the mother does not have any clinical findings related to LADA or MODY types. o If PAX4:c.314G>A variant is related to LADA, you would have detected the same symptoms in her mother too. There are rare cases in which the penetrance and expressivity of inherited genes or variations change in next generations. o The authors did not mention how many genes they performed using High-throughput sequencing, if they used a specified MODY gene panel maybe it would be better to perform whole-exome or whole-genome sequencing to clarify the case. o Functional analysis must be performed to understand the relationship between variant and disease. The PAX4:c.314G>A variant is

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insufficient to determine your case's clinical situation.