

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 90375

Title: Serum proteins differentially expressed in gestational diabetes mellitus assessed using isobaric tag for relative and absolute quantitation proteomics

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07916638

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

Manuscript submission date: 2023-12-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-12-04 10:55

Reviewer performed review: 2023-12-07 01:56

Review time: 2 Days and 15 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish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

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

SPECIFIC COMMENTS TO AUTHORS

The pathogenesis of gestational diabetes mellitus is still not fully understood, but the known factors include genetics, involvement of inflammatory factors, impaired lipid metabolism, and abnormal expression of estrogen and progesterone receptors. The Isobaric tag for relative and absolute quantitation technique combined with liquid chromatography-tandem mass spectrometry can screen many differentially expressed proteins, and the study of these differentially expressed proteins provides a strong theoretical basis for identifying biomarkers of gestational diabetes mellitus in the future. However, few studies have been reported on the application of Isobaric tag for relative and absolute quantitation technology to identify gestational diabetes mellitus. In this study, the authors applied proteomics techniques to analyze the serum differentially expressed proteins of gestational diabetes mellitus to further explore the pathogenesis of gestational diabetes mellitus and to search for biomarkers for early prediction. The study is designed well, and results are interesting. Minor comments: 1. The manuscript need to be edited. Some minor language polishing should be corrected. 2. The limit of the study should be discussed. 3. Please edit the references list according to the journal's guideline.