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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 119619

Title: Urinary trypsinogens and trypsinogen activation peptide as biomarkers in pediatric acute pancreatitis: A prospective observational study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 08820946
Position: Peer Reviewer
Academic degree and professional title: Doctorate Student, MD, Senior Researcher
Reviewer's Country/Territory: Egypt
Author's Country/Territory: Poland

Manuscript submission date: 2026-02-11

Reviewer chosen by: AI Editor

Reviewer accepted review: 2026-02-16 11:05

Reviewer performed review: 2026-02-16 11:10

Review time: 1 Hour

Content to be reviewed	Does the manuscript's content fall within the scope of the journal? **Yes** Is there any Key Word that is not included in the manuscript title? **Yes** Do authors' affiliations correspond to the content of the manuscript? **Yes** Does the Abstract contain the contents of each part of the manuscript (IMRaD)? **Yes** Are the Key Words complete? **Yes**

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	Is the content of the Introduction adequate? **Yes** Is the content of the Materials and Methods complete? **Yes** Is the description of the experiments clear and complete? **Yes** Are the experimental data presented in the manuscript's biostatistics content reliable? **Yes** Are the experimental data of the Results true and reliable? **Yes** Are the quality and resolution of the images up to standard? **Yes** Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Yes** Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **No** Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Yes** Is the content of the Discussion reasonable? **Yes** Is the Conclusion reasonable? **Yes** Are all references necessary and reasonable? **Yes** Do authors omit important references? **Yes** Are all references related to the topic of the manuscript? **Yes** Do authors only cite their own earlier publications? **No** Is the manuscript's text correct, concise, and clear? **Yes** Will the manuscript's content be of interest to readers? **Yes** Are additional experiments needed for the study? **No** Does the research scope comply with ethics? **Yes**

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Scientific quality	Grade B (Very good)
Novelty of this manuscript	Grade C (Good)
Creativity or innovation of this manuscript	Grade C (Good)
Scientific significance of the conclusion in this manuscript	Grade B (Very Good)
Language quality	Grade B (Very good)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Minor revision
Re-review	Yes
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No
Reviewer's AI contribution statement	

SPECIFIC COMMENTS TO AUTHORS

The manuscript addresses an important and clinically relevant research question within the journal's scope. The study design is appropriate, the methodology is adequately described, and the results are generally presented in a clear and logical manner. The findings contribute meaningful data to the existing body of knowledge and may have practical implications in the field. However, several minor issues should be addressed before the manuscript can be considered for acceptance.

Major Strengths

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The research question is clearly defined and clinically relevant.

The methodology is generally sound and appropriately selected for the study objectives.

Statistical analyses appear appropriate and are adequately reported.

The results are clearly structured and logically presented.

The discussion appropriately relates the findings to previous literature.

Specific Points for Minor Revision

Title and Keywords

Consider ensuring that all major keywords (particularly those central to methodology or population characteristics) are reflected in the title for improved indexing and discoverability.

Abstract Clarification

While the abstract follows the IMRaD structure, numerical results (including effect sizes and confidence intervals where applicable) should be presented more explicitly to strengthen scientific clarity.

Introduction

The introduction would benefit from a brief expansion of the most recent literature (last 3–5 years) to better position the study within current research trends.

Materials and Methods

Please clarify the justification for selected parameters (e.g., sample size calculation, inclusion/exclusion criteria thresholds if applicable).

If applicable, specify the software used for statistical analysis and version number.

Confirm whether ethical approval reference number and approval date are clearly stated.

Results Section

Ensure consistency in reporting p-values (e.g., exact values vs. $p<0.05$).

If applicable, consider adding confidence intervals to improve interpretability of effect

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estimates.

Figures and Tables

Minor formatting adjustments may improve readability.

Ensure all abbreviations are defined in table/figure footnotes.

Discussion

Strengthen the section addressing study limitations. Even if limitations are minor, clearly articulating them improves transparency and scientific rigor.

Briefly discuss potential future research directions.

Language and Style

The manuscript is generally well written; however, minor grammatical polishing and sentence restructuring in a few sections would enhance clarity and flow.

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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 119619

Title: Urinary trypsinogens and trypsinogen activation peptide as biomarkers in pediatric acute pancreatitis: A prospective observational study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00077376
Position: Editorial Board
Academic degree and professional title: MD, PhD, Professor
Reviewer's Country/Territory: Japan
Author's Country/Territory: Poland

Manuscript submission date: 2026-02-11

Reviewer chosen by: Hong-Xin Jiang

Reviewer accepted review: 2026-03-16 01:44

Reviewer performed review: 2026-03-30 03:43

Review time: 14 Days and 1 Hour

Content to be reviewed	Does the research scope comply with ethics? **Yes** Are additional experiments needed for the study? **No** Will the manuscript's content be of interest to readers? **No** Is the manuscript's text correct, concise, and clear? **No** Do authors only cite their own earlier publications? **No** Are all references related to the topic of the manuscript? **Yes** Do authors omit important references? **No**

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	Are all references necessary and reasonable? **Yes** Is the Conclusion reasonable? **Yes** Is the content of the Discussion reasonable? **Yes** Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Yes** Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **No** Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Yes** Are the quality and resolution of the images up to standard? **Yes** Are the experimental data of the Results true and reliable? **Yes** Are the experimental data presented in the manuscript's biostatistics content reliable? **Yes** Is the description of the experiments clear and complete? **Yes** Is the content of the Materials and Methods complete? **Yes** Is the content of the Introduction adequate? **Yes** Are the Key Words complete? **Yes** Does the Abstract contain the contents of each part of the manuscript (IMRaD)? **Yes** Do authors' affiliations correspond to the content of the manuscript? **No** Is there any Key Word that is not included in the manuscript title? **No** Does the manuscript's content fall within the scope of the journal? **Yes**

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Scientific quality	Grade B (Very good)
Novelty of this manuscript	Grade B (Very Good)
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Does this manuscript report a revolutionary innovation?	Yes
Does this manuscript report an unconventional innovation?	Yes
Conclusion	Minor revision
Re-review	Yes
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No
Reviewer's AI contribution statement	

SPECIFIC COMMENTS TO AUTHORS

Although the incidence of acute pancreatitis (AP) is increasing in the pediatric population worldwide, no reliable—particularly noninvasive—predictors for progression to severe disease in children have been established. In this context, the authors conducted a single-center prospective study to evaluate the usefulness of urinary trypsinogens and trypsinogen activation peptide (TAP) as biomarkers in AP. The study included 61 hospitalized children with AP and 29 controls with functional abdominal pain. The authors demonstrated that urinary trypsinogen-2 may serve as a

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noninvasive biomarker for the diagnosis of AP, while TAP may be a useful indicator of disease severity in children. This is a well-written manuscript, and I have only a few comments.

In the Results section, the authors state, "Table 2 shows the diagnostic performance of urinary trypsinogen-2 after 48 hours as a marker for the diagnosis of AP in children." However, no interpretation of these findings is provided. The authors should clearly explain the clinical significance of these results. A similar issue is noted for Table 5 and Figure 2, where it is stated that "Table 5 and Figure 2 present the assessment of urinary TAP after 48 and 72 hours as predictors of AP severity compared with serum CRP," without sufficient interpretation. The authors are encouraged to elaborate on these findings and clarify their implications for clinical practice.

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 119619

Title: Urinary trypsinogens and trypsinogen activation peptide as biomarkers in pediatric acute pancreatitis: A prospective observational study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 08820946
Position: Peer Reviewer
Academic degree and professional title: Doctorate Student, MD, Senior Researcher
Reviewer's Country/Territory: Egypt
Author's Country/Territory: Poland

Manuscript submission date: 2026-02-11

Reviewer chosen by: Meng-Liu Luo

Reviewer accepted review: 2026-05-02 13:56

Reviewer performed review: 2026-05-02 14:03

Review time: 1 Hour

Content to be reviewed	Does the research scope comply with ethics? **Yes** Are additional experiments needed for the study? **No** Will the manuscript's content be of interest to readers? **Yes** Is the manuscript's text correct, concise, and clear? **Yes** Do authors only cite their own earlier publications? **No** Are all references related to the topic of the manuscript? **Yes** Do authors omit important references? **No**

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Scientific significance of the conclusion in this manuscript	Grade B (Very Good)
Language quality	Grade B (Very good)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Accept
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No
Are your review comments generated by AI tools?	

SPECIFIC COMMENTS TO AUTHORS

The revised manuscript has been substantially improved and addresses most of the concerns raised during the previous review round. The study presents scientifically relevant findings and provides useful insights into the investigated mechanism/pathway. The manuscript is generally well organized, and the experimental design appears appropriate for the stated objectives.

The authors have adequately revised the introduction and improved the overall flow of the manuscript. The rationale of the study is now clearer, and the novelty of the work is better highlighted in comparison with previously published studies. The abstract

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appropriately summarizes the objectives, methodology, major findings, and conclusions. The Materials and Methods section is sufficiently detailed and allows acceptable reproducibility of the experiments. The statistical analyses appear appropriate, and the presentation of the data is generally reliable. The results are logically organized, and the figures and tables are relevant to the study objectives. Image quality and labeling have improved compared with the earlier version.

The discussion adequately interprets the findings in the context of the existing literature. The authors successfully explain the biological significance of their observations and provide a reasonable interpretation of the proposed mechanism. The conclusion is supported by the presented data and appropriately summarizes the importance of the study.

Despite these improvements, a few minor issues should still be addressed before final acceptance:

Minor grammatical and typographical errors remain throughout the manuscript and should be corrected through careful proofreading.

Some figure legends would benefit from slightly more detailed descriptions of statistical significance and abbreviations.

The discussion section may be strengthened further by citing a few additional recent references related to the investigated pathway and multidrug resistance mechanisms.

The authors should ensure consistency in formatting, terminology, and abbreviation usage throughout the manuscript.

Overall, the manuscript demonstrates acceptable scientific quality and contributes valuable information to the field. The revisions performed by the authors have significantly improved the clarity and quality of the work. Therefore, I recommend acceptance after minor revision.