

Manuscript ID: 101886

Manuscript Title: Advancements in Non-invasive Diagnosis of Gastric Cancer

Dear Editor:

We would like to thank the editors and reviewers for their hard work and critical and insightful comments/suggestions regarding our manuscript. Overall, we appreciated the constructive comments/suggestions made by the editors and reviewers, which have helped us to improve our manuscript. We have addressed all the concerns raised by the reviewers. Accordingly, the manuscript has been revised, and all of the revised sections of the manuscript are highlighted in blue. In addition, the revised manuscript has been edited by American Journal Experts (AJE). We hope that the reviewers will find that our revised manuscript has been improved. The comments are addressed point-by-point as follows.

We look forward to hearing from you soon.

With kindest regards,

Zhen Wang, MD, Ph.D.

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Reviewer 1:

Dear Authors, I have reviewed your article and would like to provide detailed feedback to help strengthen its quality and impact.

Comment 1

Abstract: The abstract is well-structured but could benefit from including specific findings and statistics to create a stronger impact. For instance, mentioning the success rates or clinical effectiveness of the diagnostic technologies discussed would make the abstract more compelling. A concluding sentence that emphasizes the article's main contribution or highlights the broader implications of the findings would leave a stronger impression on the reader.

Response: Thank you for your insightful comment.

We apologize for not providing a detailed description. We have revised the abstract to enhance its overall quality, and all of the revised sections of the manuscript are highlighted in [blue](#).

Comment 2

Introduction: The introduction section is concise but lacks depth. Expanding on the global health burden of gastric cancer and its socioeconomic and clinical implications would provide necessary context. Highlighting the critical importance of early diagnosis and its potential to improve survival rates would strengthen the introduction's message. A comparative overview of traditional diagnostic methods versus newer, non-invasive approaches would provide readers with a more

comprehensive understanding of the topic.

Response: Thank you for your insightful comment.

We appreciate your suggestion to expand on the global health burden of gastric cancer and its socioeconomic and clinical implications. We understand that providing this context will help readers better understand the significance of our research and its potential impact. We have added detailed information in the introduction.

Comment 3

Figures and Tables: The article currently lacks visual aids, which are essential for illustrating complex concepts. Including figures, such as diagrams of diagnostic workflows or tables comparing imaging techniques (e.g., spectral CT vs. MRI), would enhance readability and understanding. Graphs or tables presenting statistical outcomes, such as sensitivity and specificity rates of diagnostic methods, would provide robust support for your arguments.

Response: Thank you for your insightful comment.

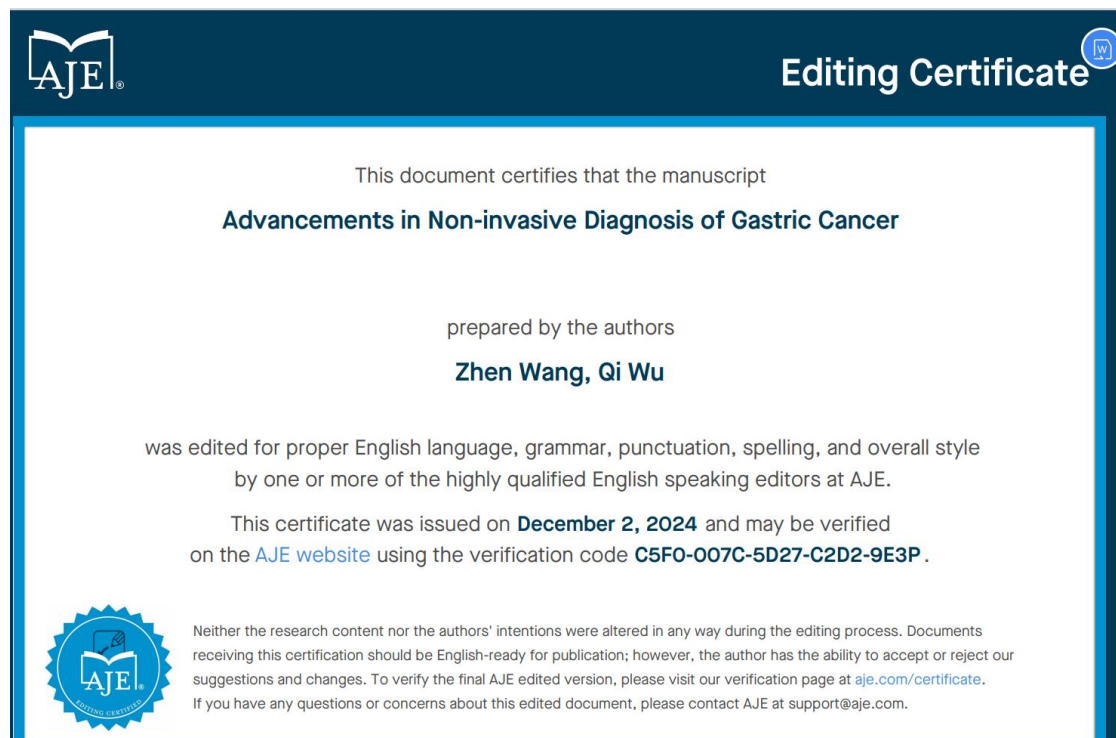
We would like to thank the reviewers for their hard work and critical and insightful comments/suggestions regarding our manuscript. Overall, we appreciated the constructive comments/suggestions made by the reviewers, which have helped us to improve our manuscript. We have addressed all the concerns raised by the reviewers.

Comment 4

Narrative and Originality: Some sentences rely on generalized statements that lack specificity. Rewriting these sections with more precise language and data would improve the clarity and originality of the article. To differentiate your study from similar works in the literature, explicitly emphasize unique findings or novel insights. This would help establish the article's significance in advancing the field.

Response: Thank you for your insightful comment.

We apologize for not providing a detailed description. We have revised the article to ensure that all statements are supported by specific data and examples, enhancing the precision and depth of our narrative. In addition, the revised manuscript has been edited by American Journal Experts (AJE).



Comment 5

Conclusion: The conclusion is clear but could include more actionable insights

and recommendations for future research. For instance, discussing how the described technologies can be validated in diverse populations or addressing challenges such as cost-effectiveness and accessibility would make the conclusion more impactful. Providing a forward-looking perspective on the integration of these technologies into routine clinical practice would align well with the article's objectives.

Response: Thank you for your insightful comment.

We appreciate your suggestion to include more actionable insights and recommendations for future research to make the conclusion more impactful. We have revised the conclusion to include these aspects, providing a comprehensive analysis of the potential barriers and opportunities for the integration of these technologies into routine clinical practice.

Comment 6

General Suggestions: Ensure consistent referencing throughout the text and consider citing recent high-impact studies to strengthen the article's credibility. Consider including a "limitations" subsection to acknowledge areas where the discussed technologies require further investigation or improvement. I strongly encourage you to address these points in your revisions. These updates will not only enhance the scientific rigor of your article but also make it more engaging and impactful for a wider audience. I look forward to reviewing the revised version.

Response: Thank you for your insightful comment.

We acknowledge the value of including a "limitations" subsection to acknowledge areas where the discussed technologies require further investigation or improvement. We have added the limitations section to our article, providing a balanced perspective on the strengths and weaknesses of our research and highlighting areas for future exploration.

Reviewer 2:

Dear authors, I read the study titled ‘Advancements in Non-invasive Diagnosis of Gastric Cancer’. The study provides information on the use of non-invasive tests in the detection of gastric cancer, the effect on the response to treatment, and the evaluation of lymph node metastasis or distant metastasis. The authors stated that the gold standard test would be endoscopic imaging and pathological confirmation with biopsy. The advantages of computerized tomography and magnetic resonance imaging among non-invasive tests were stated. Laboratory-based circulating tumor cells (CTCs), circulating tumor DNA (ctDNA) and exosomes were stated. Finally, it was emphasized that it could be determined according to the expiration component of alcohol etc. with a breath test. It was also emphasized in their expectations that studies still need to be conducted. The title, keywords and content are compatible. My Suggestions and Thoughts, The study emphasized non-invasive tests from a general perspective. It was emphasized that the reliability of these tests will become clearer with time and studies.



Comment 1

Making and accepting the language revision.

Response: Thank you for your insightful comment.

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reviewers will find that our revised manuscript has been improved. The comments are addressed point-by-point as follows.



Editing Certificate

This document certifies that the manuscript


Advancements in Non-invasive Diagnosis of Gastric Cancer

prepared by the authors

Zhen Wang, Qi Wu

was edited for proper English language, grammar, punctuation, spelling, and overall style by one or more of the highly qualified English speaking editors at AJE.

This certificate was issued on **December 2, 2024** and may be verified on the [AJE website](https://www.aje.com) using the verification code **C5F0-007C-5D27-C2D2-9E3P**.



Neither the research content nor the authors' intentions were altered in any way during the editing process. Documents receiving this certification should be English-ready for publication; however, the author has the ability to accept or reject our suggestions and changes. To verify the final AJE edited version, please visit our verification page at [aje.com/certificate](https://www.aje.com/certificate). If you have any questions or concerns about this edited document, please contact AJE at support@aje.com.

Reviewer 3:

I am pleased to provide my review of this well-structured and informative manuscript, which presents a comprehensive analysis of the latest advancements in non-invasive diagnostic techniques for gastric cancer (GC). The manuscript is a timely and significant contribution to the ongoing efforts to enhance the early detection, diagnosis, and management of this devastating disease, which carries a substantial morbidity and mortality burden. Here are my main points of consideration and why I recommend acceptance of this manuscript:

Comment 1

1. The introduction section effectively underscores the pressing need for improved diagnostic tools in GC. It succinctly outlines the current challenges in GC diagnosis, including the discomfort and limitations associated with traditional invasive methods such as endoscopy and biopsy. This sets the stage for the subsequent sections, which detail the advancements in non-invasive diagnostic techniques.

Response: Thank you for your insightful comment.

We are glad that the introduction section has laid a solid foundation for detailing the advancements in non-invasive diagnostic techniques in the manuscript. Your insights are invaluable, and we will continue to ensure that our work maintains this level of clarity and relevance throughout.

Comment 2

The authors have done an exemplary job of presenting a detailed and up-to-date overview of the latest innovations in this field. The section on advanced imaging techniques is particularly informative, providing an in-depth look at the advancements in computed tomography (CT), magnetic resonance imaging (MRI), and positron emission tomography (PET) scans. These imaging modalities have seen significant improvements in resolution and specificity, enabling earlier and more accurate detection of GC. The authors' discussion on the use of contrast agents and radiotracers further enhances the diagnostic capabilities of these techniques, making them even more valuable in the clinical setting.

Response: Thank you for your insightful comment.

We are delighted to hear that the reviewer finds our presentation of the latest innovations in this field to be detailed and up-to-date. The positive feedback is highly encouraging and validates our efforts to provide a comprehensive and insightful overview of the latest advancements in GC diagnosis. We will continue to strive for excellence in our research.

Comment 3

The manuscript also shines in its discussion of liquid biopsy, an innovative approach that involves analyzing blood or other bodily fluids for the presence of tumor-derived genetic material. The authors effectively convey the potential of liquid biopsy in providing real-time insights into the genetic and molecular profile of GC, which can guide personalized treatment strategies. While acknowledging the

challenges associated with liquid biopsy, such as the need for sensitive and specific detection methods, the authors remain optimistic about its future in GC diagnosis, particularly as technology continues to evolve.

Response: Thank you for your insightful comment.

We appreciate your recognition of our efforts to convey the potential of liquid biopsy in providing real-time insights into the genetic and molecular profile of GC. Indeed, this innovative approach holds great promise for guiding personalized treatment strategies and improving patient outcomes. Thank you once again for your valuable comments and encouragement.

Comment 4

The inclusion of breath tests as a non-invasive diagnostic tool for GC is another notable aspect of the manuscript. Breath tests involve the analysis of volatile organic compounds (VOCs) in exhaled breath, which can be indicative of the presence of GC. The authors provide a thorough explanation of the underlying principles of breath tests and the latest research findings that support their use in GC diagnosis. While still in the early stages of development and clinical validation, breath tests hold promise as a simple, cost-effective, and non-invasive alternative to traditional diagnostic methods.

Response: Thank you for your insightful comment.

Thank you for highlighting the inclusion of breath tests as a non-invasive diagnostic tool for GC as a notable aspect of our manuscript. We appreciate your

recognition of the significance of this approach. We believe that our manuscript contributes to the ongoing research and development of breath tests for GC diagnosis and hope that it stimulates further investigation in this promising area.

Comment 5

The implications of these advancements for patient outcomes are also well-discussed in the manuscript. The authors convincingly argue that non-invasive diagnostic techniques have the potential to significantly impact the early detection and management of GC, leading to better treatment results and improved quality of life for patients. They provide examples of how these techniques can be integrated into existing diagnostic pathways, highlighting the potential for a more streamlined and efficient diagnostic process.

Response: Thank you for your insightful comment.

We appreciate your recognition of our efforts to illustrate how these techniques can be integrated into existing diagnostic pathways, leading to a more streamlined and efficient diagnostic process. Indeed, our goal is to emphasize the transformative potential of non-invasive diagnostics in improving treatment outcomes and enhancing the quality of life for GC patients.

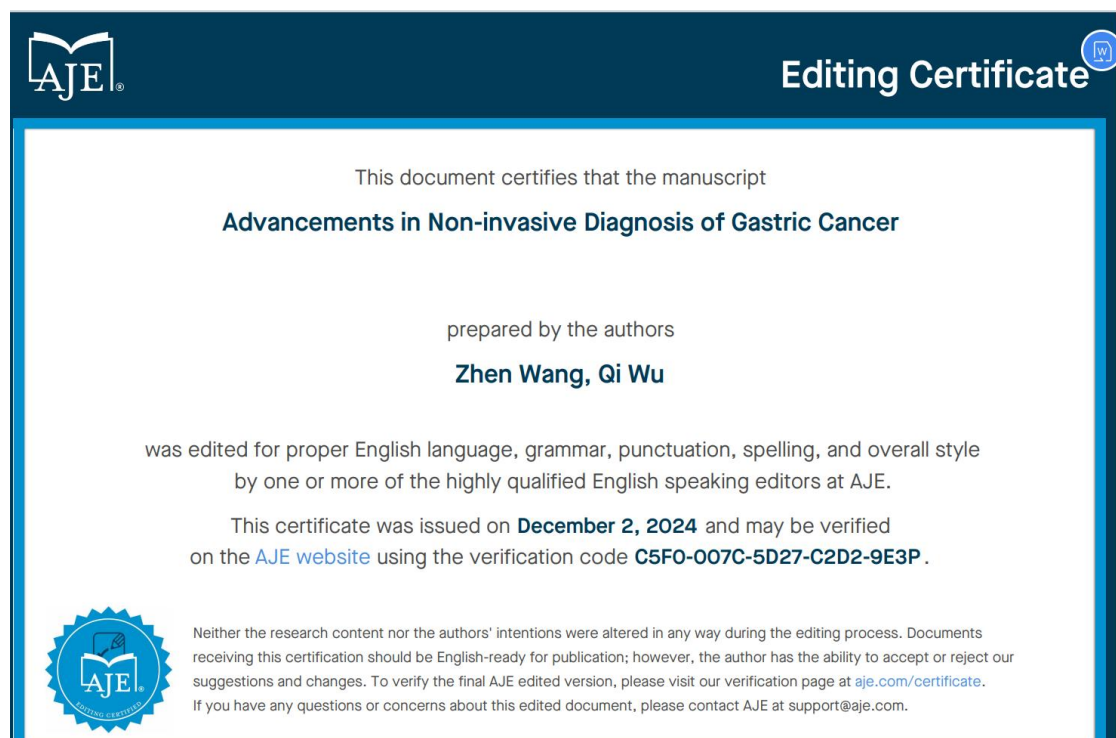
Comment 6

The manuscript is well-written and easy to follow, making it accessible to readers with varying levels of expertise in GC diagnosis. The authors have effectively

used tables, figures, and references to support their arguments and provide additional context for readers. The language is clear and concise, with minimal jargon, making the manuscript accessible to a wide audience.

Response: Thank you for your insightful comment.

We would like to thank the editors and reviewers for their hard work and critical and insightful comments/suggestions regarding our manuscript. The revised manuscript has been edited by American Journal Experts (AJE). We hope that the reviewers will find that our revised manuscript has been improved. The comments are addressed point-by-point as follows.



Comment 7

While the manuscript is already comprehensive and informative, I would suggest two minor additions to further strengthen its argument and broaden its appeal. Firstly,

the authors could include a brief discussion on the ethical implications of non-invasive diagnostic techniques for GC. While these techniques offer numerous benefits, they may also raise concerns related to privacy, informed consent, and equitable access to healthcare. Addressing these issues in the manuscript would provide a more holistic view of the advancements and their potential impact on society.

Response: Thank you for your insightful comment.

We appreciate your guidance in highlighting these issues, as it will indeed provide a more holistic view of the advancements and their potential impact on society. We will revise our manuscript to incorporate a section discussing the ethical implications of non-invasive diagnostic techniques for GC. This section will address the concerns you have raised and will aim to present a balanced perspective on the benefits and challenges associated with these techniques.

Comment 8

Despite these minor suggestions, I am confident that this manuscript represents a significant contribution to the field of GC diagnosis and is worthy of publication. It offers a timely and informative overview of the latest advancements in non-invasive diagnostic techniques, demonstrating the potential for these techniques to transform the management of GC and improve patient outcomes. Therefore, I recommend that the manuscript be accepted for publication without hesitation.

Response: Thank you for your insightful comment.

We would like to thank the reviewers for their hard work and critical and insightful comments/suggestions regarding our manuscript. We have addressed all the concerns raised by the reviewers. We hope that the reviewers will find that our revised manuscript has been improved. The comments are addressed point-by-point as follows.