

Review Form 3

Journal Name:	Journal of Advances in Medical and Pharmaceutical Sciences
Manuscript Number:	Ms_JAMPS_128785
Title of the Manuscript:	Optune: The Use of Tumor Treating Fields in Glioblastoma and Brain Metastases – Progress & Limitations
Type of the Article	Minireview Article

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The manuscript addresses the critical issue of glioblastoma multiforme (GBM), a notoriously difficult-to-treat brain cancer, highlighting the pressing need for new therapeutic strategies due to the disease's low median survival rates of 10-12 months. The research emphasizes the importance of understanding the mechanisms of drug resistance, particularly in the context of GBM, which is crucial for developing more effective treatment regimens and improving patient care.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, it is suitable because title should reflect the focus on glioblastoma multiforme (GBM) and the innovative treatment options being explored, particularly the use of Optune, which is a key aspect of the manuscript. This aligns with the manuscript's emphasis on the challenges and advancements in GBM treatment. Suggestion: An alternative title could be "Innovative Approaches in Glioblastoma Treatment: The Role of Optune in Enhancing Patient Survival." This suggestion encapsulates the manuscript focus on GBM and the specific treatment being discussed, making it clear and informative for the scientific community.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes, the abstract of the article is comprehensive. It should clearly outline the significance of glioblastoma multiforme (GBM) as a challenging disease, emphasizing its low median survival rates and the urgent need for innovative treatments. It should mention the side effects associated with Optune treatment, such as dermatologic events and headaches, while also highlighting the importance of patient education in managing these side effects. This balance of efficacy and safety is crucial for a comprehensive overview. Suggestion: It would be beneficial to include specific details about the mechanism of action of Optune, such as how tumor-treating fields work to inhibit tumor growth. This information would enhance the readers understanding of the treatment innovative approach.	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically correct because it correctly identifies the standard treatment regimen for GBM, which includes surgical resection, radiotherapy, and the alkylating agent temozolomide (TMZ). The challenges associated with TMZ resistance are also well-documented. Overall, the manuscript presents a scientifically sound discussion of GBM treatment options, including the innovative use of tumor-treating Fields, while addressing the need for further research in this area	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes, the references provided in the document appear to be a mix of recent and relevant studies, particularly focusing on glioblastoma and tumor-treating fields. It indicates that the document is incorporating current research. However, the sufficiency of the references can depend on the specific context and claims made within the document. Suggestion: Here are some suggestions for additional references that could enhance the review. 1. Stupp, R., Taillibert, S., Kanner, A., Read, W., Steinberg, D. M., Lhermitte, B., ... & Ram, Z. (2017). Effect of tumor-treating fields plus maintenance temozolomide vs maintenance temozolomide alone on survival in patients with glioblastoma: a randomized clinical trial. <i>Jama</i> , 318(23), 2306-2316. 2. Glas, M., Ballo, M. T., Bomzon, Z. E., Urman, N., Levi, S., Lavy-Shahaf, G., ... & Stupp, R. (2022). The impact of tumor treating fields on glioblastoma progression patterns. <i>International Journal of Radiation Oncology* Biology* Physics</i> , 112(5), 1269-1278.	

Review Form 3

	<p>3. Khagi, S., Kotecha, R., Gatson, N. T. N., Jeyapalan, S., Abdullah, H. I., Avgeropoulos, N. G., ... & Goldlust, S. A. (2024). Recent advances in Tumor Treating Fields (TTFIELDS) therapy for glioblastoma. <i>The Oncologist</i>, oya227.</p> <p>4. Rick, J., Chandra, A., & Aghi, M. K. (2018). Tumor treating fields: a new approach to glioblastoma therapy. <i>Journal of Neuro-Oncology</i>, 137, 447-453.</p> <p>5. Zhu, P., & Zhu, J. J. (2017). Tumor treating fields: a novel and effective therapy for glioblastoma: mechanism, efficacy, safety and future perspectives. <i>Chinese clinical oncology</i>, 6(4), 41-41.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, the writing is clear, precise, and employs appropriate scientific terminology. The structure is logical, with a coherent flow of ideas, which is essential for scholarly communication.</p>	
<p>Optional/General comments</p>	<p>The article presents an innovative approach to treating glioblastoma through the use of tumor-treating fields (TTFIELDS). This novel method is a significant advancement in the field of oncology, and the discussion around its mechanisms and clinical applications is particularly valuable.</p> <p>The following recommendations are provided for the author's consideration.</p> <ol style="list-style-type: none"> 1. The inclusion of visual aids, such as diagrams or flowcharts illustrating the mechanism of action of TTFIELDS or comparative survival rates, could enhance reader comprehension and engagement. 2. An alternative title could be "Innovative Approaches in Glioblastoma Treatment: The Role of Optune in Enhancing Patient Survival." This suggestion encapsulates the manuscript focus on GBM and the specific treatment being discussed, making it clear and informative for the scientific community. 3. It would be beneficial to include specific details about the mechanism of action of Optune, such as how tumor-treating fields work to inhibit tumor growth in abstract section. This information would enhance the readers understanding of the treatment innovative approach. 4. However, incorporating the suggested studies would enhance the relevance and comprehensiveness of the review. 	

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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