



PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 77662

Title: Hypophysitis induced by anti-programmed cell death protein 1 immunotherapy in non-small cell lung cancer: Three case reports

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03372482

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Academic Research, Assistant Professor, Associate Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: China

Manuscript submission date: 2022-05-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-12 06:37

Reviewer performed review: 2022-05-12 06:43

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input type="checkbox"/>] Anonymous [<input checked="" type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Both case 1 and case 2 presented with common symptoms of fatigue, nausea, and vomiting. But case 3 showed rare acute severe symptoms such as hoarse voice, bucking, difficulty breathing, and even sitting breathing. After 2 cycles of immunotherapy for case 3, she presented with the above severe symptoms, and the enlarged pituitary gland was found on MRI at the onset of hypophysitis. Her acute severe symptoms were relieved after 10 days of steroid treatment. Case 3 was the first case with such specific symptoms, which provided new insight into the diagnosis of hypophysitis. In addition, we found that the clinical prognosis of patients with hypophysitis was related to the dose of steroid therapy. Case 3 was treated with high-dose hormone therapy and her pituitary-corticotrophic axis dysfunction was backed to normal after over 6 months of steroid treatment. While cases 1 and case 2 were treated with the low-dose hormone, the dysfunction of the pituitary-corticotrophic axis was still abnormal after up to 7 months of steroid treatment. Conclusions: The clinical symptoms that appeared in this study provided a valuable reference for the diagnosis and treatment of immune-related hypophysitis. In General: it's a good paper and the subject of the manuscript is applicable and useful. Title: the title properly explain the purpose and objective of the article Abstract: abstract contains an appropriate summary for the article, language used in the abstract is easy to read and understand, there are no suggestions for improvement. Introduction: authors do provide adequate background on the topic and reason for this article and describe what the authors hoped to achieve. Results: the results are presented clearly, the authors provide accurate research results, there is sufficient evidence for each result. Conclusion: in general: Good and the research provides sample data for the



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authors to make their conclusion. Grammar: Need Some revision. (Check The Paper Comments). Please provide the following information in the Paper 1. Conflict of Interest
2. Source of Funding Finally, this was an appealing article, in its current state it adds much new insightful information to the field. Therefore, I accept that paper to be published in your journal



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Professional title: N/A

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Author's Country/Territory: China

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Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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SPECIFIC COMMENTS TO AUTHORS

The authors show the case of hypophysitis induced by anti-PD1 immunotherapy in non-small cell lung cancer. 1.Do PD-1 inhibitors cause easy infection? 2. Are inflammatory cytokines involved? 3. Do PD-L1 inhibitors cause similar side effects? Please discuss citing the following article. (2021). Characterization of PD-1/PD-L1 immune checkpoint expression in soft tissue sarcomas. European journal of histochemistry : EJH, 65(3), 3203. <https://doi.org/10.4081/ejh.2021.3203> 4.Were there any side effects other than pyelonephritis? 4. Please describe preventive measures.