

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 79785

Title: Thyroid storm in a pregnant woman with COVID-19 infection: A case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04227304

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Israel

Author's Country/Territory: South Korea

Manuscript submission date: 2022-10-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-29 11:45

Reviewer performed review: 2022-10-31 08:14

Review time: 1 Day and 20 Hours

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 Grade E: Do not publish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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

See the attached file

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Peer-review model: Single blind

Reviewer's code: 06329259

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: South Korea

Manuscript submission date: 2022-10-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-27 10:30

Reviewer performed review: 2022-11-04 12:51

Review time: 8 Days and 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I read this manuscript with interest. The authors report a pregnant woman with COVID-19 and seizures classified as a thyroid storm complicating Graves' disease in the presence of papillary thyroid carcinoma. They concluded that the thyroid storm was related to SARS-CoV-2 infection in this pregnant woman and that such a relationship has not been reported before. The manuscript is well written, although some mistakes should be addressed in the English grammar and spelling. I would like to make some suggestions to improve the manuscript: -They should report the epidemiological data of thyroid storms in pregnant women beyond COVID-19. -The type of tests for COVID-19 should be reported. -It is important to use the WHO grading system for the severity of COVID-19 in this patient. Why was fever considered only related to thyroid storm and not to COVID-19? -It is not clear whether the patient had presented with status epilepticus or episodic seizures. Can it be classified as new-onset refractory status (NORSE)? Febrile infection-related epilepsy syndrome (FIRES)? -I believe that the authors' first impression was "seizures and altered consciousness due to eclampsia". -Were cerebral venous sinus thrombosis and meningoencephalitis adequately addressed? Why is it not a posterior reversible encephalopathy syndrome (PRES)? -The authors should also discuss the possibility of a paraneoplastic neurological syndrome in the presence of thyroid cancer. -Was the final diagnostic "seizures" or status epilepticus? -In the Discussion section, I would like to suggest that the authors report similarities and differences with other cases of thyroid storm related to COVID-19 beyond pregnancy. Also, they should discuss how pregnancy can trigger thyroid storms in the Etiology subsection.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript NO: 79785

Title: Thyroid Storm in a pregnant woman with COVID-19 infection: A case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04227304

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Israel

Author's Country/Territory: South Korea

Manuscript submission date: 2022-10-27

Reviewer chosen by: Han Zhang

Reviewer accepted review: 2022-12-01 05:02

Reviewer performed review: 2022-12-01 21:52

Review time: 16 Hours

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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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
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

I appreciate the opportunity to re-review this interesting manuscript. The authors made significant changes and improved many parts of the manuscripts. The grammar has improved throughout. There are still some issues to be addressed, as following: - The authors write that the patient's disease severity was severe and use the clinical improvement scale. However, according to the accepted severity scale - COVID-19 requiring mechanical ventilation is part of a critical disease severity. <https://www.acep.org/corona/covid-19-field-guide/diagnosis/diagnosis-when-there-is-no-testing/> - Once again, I highly recommend the authors to address the following article which describes the extra-pulmonary involvement of COVID-19 in more than one system concurrently and addresses the possible inflammatory mechanism of extra-pulmonary COVID-19 like the authors do in their paper. <https://link.springer.com/article/10.1007/s00296-022-05106-3> - I would like to address the differential diagnosis of eclampsia. Many cases of eclampsia (even most cases in some studies - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3119563/>) present without HTN or proteinuria. Regardless of the other differential diagnosis, the patient improved without any thyroid specific treatment while the authors clearly state that her condition was severe hyperthyroidism that is not likely to improve without and where treatment should be given promptly. Moreover, there were no symptoms prior or after the seizures related to hyperthyroidism - such as irritability, heat sensitivity, palpitations and so on. These are very important issues that should be further noted in the discussion.