Reviewer’s report

Title: Untreated primary hypothyroidism with simultaneous rhabdomyolysis, pericardial effusion, and sudden sensorineural hearing loss: a case report

Version: 0 Date: 11 Mar 2019

Reviewer: Swayamsidha Mangaraj

Reviewer's report:

The authors describe an interesting case of hypothyroidism with atypical presentations. Here are a few suggestions for the authors.

1. Since, hypothyroidism due to Hashimoto's thyroiditis is a chronic autoimmune disease, the adjective "aggressive" doesn't seem befitting to it. Yes, the manifestations may be sometimes acute and severe during initial presentation. Hence, in my opinion, in the title "Aggressive manifestation/presentation of primary hypothyroidism with simultaneous rhabdomyolysis, pericardial effusion, and sudden sensorineural hearing loss: a case report would be more apt.

Similarly the line 171 of page 10 "Herein, we report for the first time a case of aggressive hypothyroidism with concurrent rhabdomyolysis with acute kidney injury, pericardial effusion, and sudden sensorineural hearing loss" should be replaced with "Herein, we report for the first time a case of "hypothyroidism presenting" with concurrent rhabdomyolysis with acute kidney injury, pericardial effusion, and sudden sensorineural hearing loss

2. Some minor typographical error needs correction.

1. alanine aminotransferase 357 (3-45) IU/L,

2. aspartate aminotransferase 278 (3-45) IU/L

Above parameters values are missing in main text in line 84 and 85 ,page 6,though reported in Table.

3. Figure legends

Figure 2. (A) Pure tone audiometry displayed the presence of unilateral (left side "AACE/ATA")(A)

4. Thyroid sonography showed diffusely enlarged "gland" not glands. Line 94 ,page 7
5. Although hypothyroidism can manifest with conductive, mixed or sensory neural hearing loss, the importance of sudden sensory neural hearing loss (SSNHL) as manifestation of hypothyroidism is relatively lesser known. The author's manuscript highlights this atypical complication of hypothyroidism.

Following lines may be added in discussion section to highlight the importance of thyroid dysfunction in evaluation of sudden sensory neural hearing loss from one of the cited articles of authors.

Thyroid dysfunction can be found in patients presenting with SSNHL, with one report of a 15% rate of hypothyroidism (Heman-Ackah et al., 2010; Narozny et al., 2006).


6. The authors have discussed the potential role of hypothyroidism and statin use in precipitating rhabdomyolysis. The potential risk of rhabdomyolysis in hypothyroidism due to concurrent statin use should be stressed in text. Few lines can be added to text for benefit of general readership of journal highlighting this important clinical lesson. Can be added to para 1 of page 9.

Statin therapy and untreated hypothyroidism may synergistically enhance the risk of myopathy and rhabdomyolysis in patients as reported in literature.[reference cited below]

References


Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess
Are the conclusions drawn adequately supported by the data shown?  
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?  
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Not relevant to this manuscript

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