Reviewer's report

Title: Takotsubo cardiomyopathy after an Upper and Lower Endoscopy: A Case Report and Review of Literature

Version: 0 Date: 12 Dec 2018

Reviewer: Narothama Reddy Aeddula

Reviewer's report:

1. Do you believe the case report is authentic?
   Yes

2. Do you have any ethical concerns? Please consider if local Institutional Review Board approval or ethical approval was obtained (if appropriate) and if the patient (or their parent or guardian in the case of children under 18) gave written, informed consent to publish this case and any accompanying images. A statement to this effect should appear in the manuscript.

   Comments: None

3. Does the Introduction explain the relevance of the case to the medical literature?
   Yes- But needs to improve

4. Does the article report the following information? Where information is missing, please specify.
   a. The relevant patient information, including:
      - De-identified demographic information (age, gender, ethnicity)-yes
      - Main symptoms of the patient-yes
      - Medical, family and psychosocial history- No
      - Relevant past interventions and their outcomes-yes

   b. The relevant physical examination findings
c. Important dates and times in this case (if appropriate, organized as a timeline via a figure or table); if specific dates could lead to patient identification, consider including time relevant to initial presentation, i.e. initial presentation at $T = 0$, follow up at $T = 1$ month.

d. Diagnostic assessments, including:
   - Diagnostic methods
   - Challenges (e.g., financial, language/cultural)
   - Reasoning and prognostic characteristics (e.g., staging), where applicable

e. Types and mechanism of intervention

f. A summary of the clinical course of all follow-up visits

Comments: Yes

5. Is the interpretation (discussion and conclusion) well balanced and supported by the case presented?

Comments: Yes-Needs to improve.

6. Is the anonymity of the patient protected? Please consider any identifying information in images such as facial features or nametags, whether the patient is named etc. If not, please detail below.

Yes

7. Is the Abstract representative of the case presented?

Comments: yes

8. Does the case represent a useful contribution to the medical literature?

Comments: Yes
Patel et al., present a case of Takotsubo cardiomyopathy after an Upper and Lower Endoscopy and reviewed the literature.

The authors did a great job in preparing the manuscript.

Following are my comments and suggestions to the authors,

1. Background:

Authors wrote 'While widely considered safe, adverse cardiovascular events can occur in high-risk patients undergoing endoscopy'.

This statement needs some evidence and citations. Advice to elaborate on the topic for the reader to understand the potential cardiovascular events and it is important to diagnose the Takotsubo cardiomyopathy.

Authors wrote 'To date, there have only been six reported cases of stress cardiomyopathy in patients post-endoscopy. We present the second reported case of Takotsubo cardiomyopathy following an upper and lower endoscopy'. They say 6 reported cases and then mention their case is the second reported case.

Confusing and needs clarification.
2. Case presentation:

- Please mention patients current medications, allergy, social and brief family history.
- Patient has a diagnosis of Lymphocytic colitis. Has she had any prior endoscopies? If she did then how was she during those procedures?
- Why did she have the procedures scheduled?
- What anesthetic agents and pre-procedural medications were used? Eg: There are reports on meperidine (used for pre-colonoscopy sedation) causing the takotsubo syndrome, (1)
- Please provide reference ranges for all the laboratory parameters.
- Provide images of the 2 D ECHO

3. Discussion and Conclusions:

- As mentioned above, please include a brief paragraph on the endoscopic procedures and the potential cardiovascular complications.
- Table 1. Needs to provide references.
- Please discuss any available literature on how to evaluate and prevent the Takotsubo before the endoscopies. Any evidence on post-procedure care or monitoring in patients.
- If possible please provide the diagnostic criteria for the Takotsubo syndrome
- Authors wrote' Myocardial infarction has a similar clinical presentation to that of Takotsubo cardiomyopathy; however, they have significant differences in treatment, prognosis, and complications'. Needs a reference.

References:

Level of interest
Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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Were you mentored through this peer review?

No