Reviewer's report

Title: Catecholamine reversal: a case report on unexpected hypotension

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Reviewer: Hori Hariyanto

Reviewer's report:

The case report is unique since "catecholamine reversal" is rarely heard of. However, there are major issues in regards to the report, which are:

1. Vital signs such as heart rate, blood pressure, capillary refill time, urine output and patients' mental status are not complete (from day one through five).
   For ex: line 42. Fluid resuscitation of 3000 mL crystalloid temporarily increased his BP. How much increase? ... But shock still persisted. Please describe his signs of shock.
   Line 46: however his hypotension gradually worsened. What was his exact blood pressure and mean arterial pressure?

2. In his shocked state, when did you decide to intubate? Please describe the chronological order of actions performed.

3. In line 49, you mentioned that systemic vascular resistance index (SVRI) was very low. How did you obtain this number? What device was utilized?

4. Please state how much time has elapsed before you initiated norepinephrine and dobutamine infusion. And for how long did you continue to administer them before switching to vasopressin.

5. You mentioned that hemodiafiltration was performed due to the presence of metabolic acidosis. However, this data does not seem to match the data you presented on arterial blood gas on Table 1. His pH was 7.364 and base excess -3.9 mmol/L.

6. Your patient was cared for five days, what happened to the data sets and vital signs on day three and four? How did you titrate down on vasopressin and was the noradrenaline infusion completely terminated?

7. Bibliography section only contains four references which have published dates as far back as 1964. Please find more references to support your case report and even to describe this rare condition you encountered; describing in detail its mechanism.

8. Overall, you need to elaborate on the general well-being of this patient from admission up through his ICU discharge date. Describing a patient merely on one time monitoring of blood pressure and GCS score upon admission in addition to "worsened metabolic acidosis" is not enough to give reviewers the confidence to believe that your patient completely recovered on day 2 of his ICU care. This report needs to be revised extensively since core data sets are missing.
Level of interest
Please indicate how interesting you found the manuscript:

An exceptional article

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

Not suitable for publication unless extensively edited

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