

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 54104

Title: Delayed cardiac tamponade diagnosed by point-of-care ultrasound in a neonate after peripherally inserted central catheter placement: A case report

Reviewer's code: 05329677

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2020-11-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-11-16 03:19

Reviewer performed review: 2020-11-19 02:52

Review time: 2 Days and 23 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 Grade E: Do not publish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
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 statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This paper reported a relatively serious complication caused by nutritional treatment of PICC neonates, pericardial tamponage. The author described in detail the general condition of the patients, ultrasound diagnosis and puncture treatment, and the final prognosis was good. Through case report and analysis, it seem suggested that precise tips positioning should be carried out for PICC operations. If serious cardiac symptoms would be observed in the treatment process, POCUS should be applied timely to find delayed cardiac tamponade. It is recommended that the editor accept the paper after it be revised carefully.

1. It was mentioned in the article that the X-ray examination results after PICC operation showed that the catheter tip entered the right atrium. Due to the small right atrium of neonate , thin atrial wall and fast heart rate, continuous mechanical stimulation of catheter tip may even puncture the atrium. It is suggested that this paper discuss the causes of pericardial effusion based on the components of pericardial effusion extracted by puncture, whether pericardial stimulation or cardiac perforation leads the serious complication..

2 Catheter tip over deep position is the important cause of this complication, it is suggested that X-ray result was added in the paper. Discussion could suggest more accurate positioning technology from recent references such as PICC tip EKG positioning to prevent the catheter inserted into the right atrium.

3 The author believes that the better prognosis is due to the target treatment after ultrasound diagnosis. The description of target treatment may be described as etiological treatment or aetiologische therapy, the removal of tamponage based on the accurate diagnosis of POCUS

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 05329677

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2020-11-11

Reviewer chosen by: Xi-Fang Chen (Part-Time Editor)

Reviewer accepted review: 2020-11-29 23:44

Reviewer performed review: 2020-11-29 23:56

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 checked="" type="checkbox"/> Accept (General priority) <input 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

SPECIFIC COMMENTS TO AUTHORS

The case diagnosis and treatment process is appropriate, and the prognosis is good, which has certain reference significance for clinical work