

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 70727

**Title:** Echocardiography in the diagnosis of Shone's complex and analysis of the causes for missed diagnosis and misdiagnosis

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05384570

**Position:** Peer Reviewer

**Academic degree:** MA

**Professional title:** Professor

**Reviewer's Country/Territory:** Malaysia

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-09-03

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-10 02:25

**Reviewer performed review:** 2021-09-22 12:59

**Review time:** 12 Days and 10 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous
	Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No

## SPECIFIC COMMENTS TO AUTHORS

Good article. I have some comments on the articles. 1. "Shone's complex is a rare congenital heart disease characterized by multiple left heart obstructive defects, including coarctation of the aorta (CoA), valvular stenosis, and mitral stenosis." Shone's complex should have 4 defects, please elaborate all the defects. 2. Authors should include the presenting symptoms of the patients with Shone's complex in the patient's characteristics i.e. cyanosis, dyspnea or presence of symptoms of heart failure. 3. Since the title include misdiagnosis, the authors should include the number or percentage of patient misdiagnosed as other congenital heart disease. Furthermore, the authors should include the disease that the patients misdiagnosed as. Some information on this was in the discussion. However, the misdiagnosis section should be elaborated since this is the title of the article. 4. Authors should also discuss the prognosis of the patients after surgery in the results section such as hospitalisation, arrhythmias, death or free-survival curve 5. Authors should also discuss on the medications the patient on, types of surgery and number of surgery, number of patients with complete or incomplete Shon's complex

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**Reviewer's code:** 02634593

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** Turkey

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-09-03

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-30 08:21

**Reviewer performed review:** 2021-10-07 10:30

**Review time:** 7 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
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### **SPECIFIC COMMENTS TO AUTHORS**

In this study, the authors aimed to examine the use of echocardiography in the diagnosis of Shone's complex and to analyze the possible causes of missed diagnosis and misdiagnosis. They concluded that echocardiography is an effective method to diagnose the Shone's complex. My comments are as follows: 1) The major limitation of study is its retrospective design. This might lead to bias in the reported results. 2) What is the reproducibility results for echocardiographic findings? 3) In figure 3, is there only annulo-leaflet mitral ring, or are both annulo-leaflet mitral ring and parachute mitral valve present?