

## PEER-REVIEW REPORT

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

**Manuscript NO:** 42883

**Title:** Cardiac involvement in disseminated diffuse large B-cell lymphoma, successful management with chemotherapy dose reduction guided by cardiac imaging: A case report and review of literature

**Reviewer's code:** 00227341

**Reviewer's country:** Italy

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-11-14

**Date reviewed:** 2018-11-19

**Review time:** 5 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

The Authors present the case of an 18-year-old male with diffuse large B-cell lymphoma involving the myocardium and both atria who was successfully treated with



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chemotherapy guided by cardiac imaging. Malignant lymphoma with cardiac involvement is difficult to diagnose and treatment selection decisions can be challenging, because patients usually present with atypical disease involvement , the incidence is low and the prognosis is often severe. The paper is interesting and the case report is well described and well documented. Unique annotation : as you make reference to the role of cardiac imaging I would suggest that in the discussion you also mention the role of 18F fluorodeoxyglucose positron-emission tomography/computed tomography (18F-FDG PET/CT) that is a standard imaging tool in staging as well as response evaluation for lymphoma.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

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**Manuscript NO:** 42883

**Title:** Cardiac involvement in disseminated diffuse large B-cell lymphoma, successful management with chemotherapy dose reduction guided by cardiac imaging: A case report and review of literature

**Reviewer's code:** 03548820

**Reviewer's country:** Russia

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-11-14

**Date reviewed:** 2018-11-26

**Review time:** 12 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
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			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Dear authors, The title of the manuscript does not reflect its content accurately and should be changed. Here you are describing the case of cardiac involvement of



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disseminated diffuse large B-cell lymphoma and not of Stage IV cardiac lymphoma. In your work, you touched upon an important clinical problem: an attempt to minimize the risk of a hollow organ perforation (in this case, the heart) in total/subtotal lesion to its wall by a lymphoma with a high index of proliferative activity. The current literature does not cover this problem sufficiently. Tumors with a high index of proliferative activity, such as diffuse large B-cell lymphoma or Burkitt lymphoma, can affect hollow organs (heart or intestines) and respond well to specific therapy, but at the beginning of the therapy a risk exists of a fatal perforation of the organ due to rapid tumor destruction. A highly attractive approach to minimize this complication is initiation of a low intensity chemotherapy followed by the standard full-dose regimen. However, it is not a standard one, due to the reduced probability to achieve the complete remission of aggressive lymphomas. The approach is an individual, with weighting the risk of the organ perforation complicating the therapy (fatal in case of heart lesion) on the one hand, and of not getting the lymphoma remission which can also be fatal in the long term. The decision is made based on the use of modern imaging techniques (to assess damage to the organ wall) and the experience of the doctor. Using modern imaging techniques allows an adequate therapy correction and assessment of its effect. To select the most appropriate method and to standardize the increase in the dose of chemotherapy optimally, they should perform comparative studies. There are some grammatical errors and inaccuracies that can be corrected easily. In particular, reference 27 is not applicable in the phrase "and cardiac rupture resulting from rapid tumor destruction (22, 27)" because in the case described by Shah et al. the patient did not have cardiac rupture. The sentence "Transesophageal echocardiography (TEE) has better sensitivity for lymphomatous involvement (97% vs 75.9%) in patients with PCL (16)" does not explain the subject to compare the TEE sensitivity with. The authors have extensively covered the literature on the subject. The authors illustrated the case well.



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- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

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