

PEER REVIEW HISTORY

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ARTICLE DETAILS

TITLE (PROVISIONAL)	Anthracycline induced Cardiotoxicity: Prospective Cohort Study from Pakistan.
AUTHORS	Shaikh, Abdul Sattar; Saleem, Ali; Mohsin, Shazia; Alam, Muhammad; Atiq, Mehnaz

VERSION 1 - REVIEW

REVIEWER	Jean-Jacques Monsuez Cardiology Hôpital René Muret, Hôpitaux Universitaires de Paris Seine Saint Denis, France
REVIEW RETURNED	22-Aug-2013

GENERAL COMMENTS	<p>In this manuscript, AS Shaik et al provide valuable data on the cardiac prognosis of children receiving anthracyclines, mainly doxorubicin, daunorubicin (or combination of both) for malignant diseases, mainly ALL (70/110). The study should be regarded with interest for 3 main reasons:</p> <p>1 Follow up of children provides data on incident cardiac complications overtime, at 1 month and 1 year, respectively (15 and 28 children with cardiac dysfunction, respectively). Early cardiac toxicity (14% at 30 days) is relatively high and should be underlined by the authors, using an additional reference, e.g. Circulation 2005, 112: 3754, or a review, e.g., their ref 3. They should add a comment of this issue in the Discussion section.</p> <p>2 Onset of diastolic and systolic dysfunctions are well depicted, with an approach also much more detailed than in many other publications. One interesting finding of the study is that children develop either diastolic or systolic dysfunction, or their combination, but not their succession overtime. By contrast, previous studies showed that diastolic dysfunction is an early marker of increased risk for subsequent systolic dysfunction (Lee et al, Stoddart, JACC 1992, 20: 62).</p> <p>3 Most available studies on anthracyclin-related cardiac toxicity were published in Western countries. As data from very different areas such as Pakistan are lacking, the study may also be regarded with interest.</p> <p>The manuscript is well built, with careful treatment of collected data, appropriate statistical analysis and subsequent discussion. It's also easy to read and to understand, with tables in appropriate numbers and relevant data displayed.</p> <p>The manuscript may be improved with minor changes</p> <p>1 cumulative doses of anthracyclines should be expressed in mg/m²,</p> <p>2 the authors should underline that cardiac toxicity is of increased concern today, with regard to the recent withdrawal of desrazoxane. They should add that they didn't administered this drug to the children.</p>
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	3 Minor spelling/grammatical errors, easy to review at the Editorial office 4 Introduction, In 150, change systolic decomposition for systolic impairment.
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REVIEWER	Dr. Janez Jazbec, MD, PhD University Medical Center Ljubljana Children's Hospital Dept. of Hemato-oncology
REVIEW RETURNED	25-Aug-2013

GENERAL COMMENTS	Shakih et. al. Present the results of their prospective study of cardiotoxicity of anthracycline therapy in pediatric cancer patients. Although the results are in consistence with the results of previously published studies on the subject, the context of the study is put in the mileau of developing country. The study design , methodes used and the stat analysis are adequate as well as the interpretation of the results. The major weaknes of the study is significant drop-out of the patiens which should be better addressed.
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VERSION 1 – AUTHOR RESPONSE

Reviewer: Jean-Jacques Monsuez Cardiology Hôpital René Muret, Hôpitaux Universitaires de Paris Seine Saint Denis, France	
1) Follow up of children provides data on incident cardiac complications overtime, at 1 month and 1 year, respectively (15 and 28 children with cardiac dysfunction, respectively). Early cardiac toxicity (14% at 30 days) is relatively high and should be underlined by the authors, using an additional reference, e.g. Circulation 2005, 112: 3754, or a review, e.g., their ref 3. They should add a comment of this issue in the Discussion section	We agree with the reviewers, and an additional reference along with comments has been incorporated in lines 284-86.
2) Onset of diastolic and systolic dysfunctions is well depicted, with an approach also much more detailed than in many other publications. One interesting finding of the study is that children develop either diastolic or systolic dysfunction, or their combination, but not their succession overtime. By contrast, previous studies showed that diastolic dysfunction is an early marker of increased risk for subsequent systolic dysfunction (Lee et al, Stoddart, JACC 1992, 20: 62).	We also observed same pattern in our study population, at acute stage most of the children had isolated diastolic dysfunction and in these children systolic dysfunction develop later on. We also observed new cases develop dysfunction with progression of time. Comments have been incorporated in lines # 308-13.
3) Most available studies on anthracyclin-related cardiac toxicity were published in Western countries. As data from very different areas such as Pakistan are lacking, the study may also be regarded with interest.	Yes we agree, studies from our country is lacking.
Comments	
1) cumulative doses of anthracyclines should be expressed in mg/m ²	Correction done as mg/m ² in lines # 92, 238, 263, 324, table 1 and 4
2) The authors should underline that cardiac toxicity is of increased concern, with regard to the recent withdrawal of desrazoxane. They should add that they didn't administered this drug to the children.	Mentioned in line # 180-81, 351
3) Minor spelling/grammatical errors, easy to review at the Editorial office	We also tried to correct them

4) Introduction, In 150, change systolic decomposition for systolic impairment.	Change done Line # 153
Reviewer: Dr. Janez Jazbec, MD, PhD University Medical Center Ljubljana, Children's Hospital Dept. of Hemato-oncology Bohoričeva 20 1000 Ljubljana	
Shakih et. al., Present the results of their prospective study of cardiotoxicity of anthracycline therapy in pediatric cancer patients. Although the results are in consistence with the results of previously published studies on the subject, the context of the study is put in the mileau of developing country. The study design, methods used and the stat analysis are adequate as well as the interpretation of the results. The major weakness of the study is significant drop-out of the patients which should be better addressed.	Treatment and follow up compliance always remain major issues in our country due to multiple factors. Addressed in flow diagram and in lines # 341-51.
Additional changes done	In line # 74 (Pakistan written in place of developing countries) 94- 95 (typo error in results corrected) 101-102 (conclusion modified) 165 (typo error corrected)

VERSION 2 – REVIEW

REVIEWER	MONSUEZ Jean-Jacques Hôpital René Muret, France
REVIEW RETURNED	18-Sep-2013

GENERAL COMMENTS	All comments suggested to the authors were appropriately taken into account in the revised submission. 2 minors changes more: - In 285, change " a little high" for "higher than" (in other studies,mainly from Western countries) - Tble 1, In 485: mg/m ² also in cumulative dose, column 1 Many grammatical errors throughout the Msc should be edited to improve style.
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VERSION 2 – AUTHOR RESPONSE

Reviewer: Jean-Jacques Monsuez

Institution and Country Hôpital René Muret, France

1) In 285, change " a little high" for "higher than" (in other studies, mainly from Western countries)
Corrected.

2) Table 1, In 485: mg/m² also in cumulative dose, column 1 Corrected.

3) Grammatical errors throughout the Msc should be edited to improve style Grammatical corrections have been made.