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OPEN PEER REVIEW

Prevalence and Hemodynamic Consequences of Mitral Valve Abnormalities in Atrial Septal Defect

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1 Original submission

3 comments · 3 Oct 2022 – 15 Oct 2022

Zahra Naseri kivi Reviewer

ACCEPT 3 Oct 2022

This article is within the scope of the journal. Similar articles have been published before, but this article has a larger sample size & includes all types of mitral valve disorders & all types of ASD.
The title is appropriate for the content without any abbreviations in it. The abstract is acceptable & 3 keywords have been selected.
The objective, hypothesis & aims are clear.
The selection of participants & study design are described sufficiently, but no clear inclusion/exclusion criteria are explained. The sample size is good, & the participants are of different sexes & ages.
The P-value & standard deviation are reported.
The echocardiography procedures are well described. Because the study was retrospective, all selected patients were known cases of ASD.
The statistical analysis is appropriate.
The tables & figures are clear & appropriate.
No graphs & diagrams are present in this article.
The conclusion could be described in more detail. The analysis supports the conclusion.
The references are written properly, but most of them are old.

Niloufar Samiei Reviewer

MINOR REVISION 8 Oct 2022

Dear Associate Editor

Thank you for inviting me to peer review the article entitled " : Prevalence and hemodynamic consequence of mitral valve abnormalities in atrial septal defect"

Overall, the concept behind the study is interesting, and to the best of my knowledge, this retrospective study has a high case count compared with relatively similar studies. The manuscript is well written and informative but needs some minor spelling, grammar, and punctuation corrections.

To go to specific parts:

1- The title is comprehensive regarding the study details.
2- The abstract is complete and provides a miniature version of the study but may need some revision regarding the points in the following specific parts.
3- The introduction is well written; however, I wonder whether ventricular septal defect is the most common CHD in the population. Providing an epidemiologic estimate of the prevalence of common congenital heart disease among adults requires adding a reference in this part.
4- The methodology of the study, the equipment, and the software used are up to date and consistent with guidelines, but more details are needed about 3-D measurements of MV, the software used, and the description of MR severity based on guidelines. Also, methods for estimating PAH probability should be added.
5- Statistical analysis needs to be separated from the study methods, and I kindly recommend that it be reviewed by an epidemiologist, but from my clinical point of view, it is acceptable and rational.
6- Results are acceptable and compatible with what we expect based on our clinical experience; however, the role of 3-D assessment of MV anatomy and function needs to be specified more clearly. The authors mentioned

it in their methodology, but the results seem to lack analysis of this part. Also, the definition and measurement of PAH should be based on invasive studies, and in this imaging research, I would like to ask the authors to use the term "Probability of PH" instead of a precise calculation.
7- The tables are very informative with their captions.
8- The discussion is nice and based on practical articles published so far; however, 3-D data and comparisons with similar studies are still missing. However, the analytical thinking and comparison with previous studies are absorbing.
9- The conclusion is a summary of all the results.
10- References are complete.

Editor-in-Chief

MINOR REVISION 15 Oct 2022

See the reviewers' comments and answer their questions. Also add a paragraph on the limitations of your article at the end of the discussion.

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

1.Revision of abstract was done.

2. frequency of ASD among adult population corrected(it changed from the most common congenital to a common congenital defect)

3.Correction in methodology has done and more description about 3D measurement added to this part.

4.Statistical analysis separated from method and it was written by epidemiologist in our center (Dr.Bakhshandeh)

5.We explained more about 3D modes that have been used in evaluation of our patients in result section, also SPAP corrected to estimated SPAP by echocardiography and PH changed to probable PH due to echocardiography evaluation. We explained more about evaluation of MR severity based on recent AHA gridline of VHD.

6.We explained more about 3D modes that have been used in our study in discussion part and although there were lack of comprehensive studies in literature about MV anomalies but as far as possible we tried to compare our data with previous studies.(lack of articles that evaluated all MV anomalies at the same time)

7.We added limitations of our study at the end of the article.

8. Exclusion and inclusion criteria added to method section.

9.As far as tables of our articles were comprehensive we did not add charts but charts are available and we can send them as complimentary file.

2 Revision 1

0 comments

No public comments in this round.