

# **ORAL PRESENTATION**

**Open Access** 

# Landmarks for diagnosis and surgery in abnormal ventriculo-arterial connections with usual arrangement

A Capuani\*, N Soulé, M Meot, B Aupy, MC Vaillant, J Poinsot, B Lefort, A Chantepie, P Marticho, P Neville

From 23rd World Congress of the World Society of Cardio-Thoracic Surgeons Split, Croatia. 12-15 September 2013

### **Background**

The term "malposition of great arteries" is commonly used for diagnosis and surgery in abnormal ventriculoarterial connections with usual arrangement and two well developed ventricles. In these abnormalities the variability of the arterial relationships is considerable and all relationships from normal to side by side to antero posterior have to be expected.

Can we find other anatomical landmarks for the diagnosis and the subsequent corrective surgery?

#### **Methods**

We reviewed the specimens previously published and observations collected in three different institutions.

#### Results

There is a gradual transition from Tetralogy of Fallot to double outlet right ventricle with subaortic ventricular septal defect to Taussig-Bing hearts to transposition of great arteries. In this transition the normal aortic-mitral continuity is progressively lost with gradual development of pulmonary- mitral continuity.

The key features determining the sequence of these abnormalities are the relationships between the outlet septum and the ventricular musculature. We may describe and group these malformations in function of the anticlockwise rotation of the outlet septum and the septomarginal trabeculation.

## Conclusion

The term "malposition of great arteries" is a generic term which is of little help for diagnosis and surgery, therefore, it should be avoided. to the VSD. Careful attention to these structures dictates the diagnosis and the best surgical approach.

We recommend a detailed description of the outlet

septum and the septomarginal trabeculation in relation

#### Acknowledgements

We are grateful to Prof. Robert H. Anderson for the invaluable help and discussions during this study.

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-O251

Cite this article as: Capuani *et al.*: Landmarks for diagnosis and surgery in abnormal ventriculo-arterial connections with usual arrangement. *Journal of Cardiothoracic Surgery* 2013 **8**(Suppl 1):O251.

# Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at www.biomedcentral.com/submit



<sup>\*</sup> Correspondence: capathos@hotmail.com Ped. Cardiology, Clocheville Hospital, CHRU Tours, France

