

MEETING ABSTRACT

Open Access

Surgical treatment of patent ductus arteriosus in neonates

Rui Almeida^{1,2*}, Paula Futagami¹, Maria Silva²

From World Society of Cardiothoracic Surgeons 25th Anniversary Congress, Edinburgh
Edinburgh, UK. 19-22 September 2015

Background/Introduction

The patent ductus arteriosus is a congenital disorder characterized by incomplete closure or non-closure of the ductus arteriosus after birth. Surgical treatment, in the neonatal period, is indicated when the clinical treatment failed or there is contra-indication for it.

Aims/Objectives

To identify the morbidity and mortality of neonates submitted to cardiac surgery for correction of patent ductus arteriosus, in a non pediatric unit of cardiovascular surgery.

Method

A retrospective study of 17 neonatal patients, undergoing surgical correction of patent ductus arteriosus, was performed, in a period of eight years, from December 2007 to March 2015.

Results

Female gender was predominant in 80% and the mean gestational age was 27.71 ± 2.95 weeks. The mean birth weight was 1324.32 ± 857.37 g, being the less weight 480g. The diameter of the ductus arteriosus was in average 2.82 mm (DP ± 0.94). Associated pathologies were present in 80% of the patients and 64.70% underwent premedical treatment. There was no operative mortality in this group of patients. Time of hospital stay in these patients was related to gain of weight, being two kilos the minimum to be discharged. Due to this the mean hospital stay after the correction of the heart defect was 97 days. Three patients died in ICU due to complications of other congenital malformations, such as neurological and gastrointestinal.

Discussion/Conclusion

The surgery is the recommended treatment after failure of conventional medical treatment. It presents good results and no mortality, related to the cardiac surgery.

Authors' details

¹Faculdade Assis Gurgacz, Cascavel, Paraná, Brazil. ²Parana Western State University, Cascavel, Paraná, Brazil.

Published: 16 December 2015

doi:10.1186/1749-8090-10-S1-A184

Cite this article as: Almeida et al.: Surgical treatment of patent ductus arteriosus in neonates. *Journal of Cardiothoracic Surgery* 2015 **10**(Suppl 1):A184.

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



¹Faculdade Assis Gurgacz, Cascavel, Paraná, Brazil
Full list of author information is available at the end of the article