

ABSTRACT

The Difference in Duration of Pneumonia in Each Types of Acyanotic Congenital Heart Disease with Left-To-Right Shunts

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Background: *Acyanotic congenital heart disease with left to right shunt can increase blood flow to the lungs. It may cause respiratory tract infection. Acute respiratory tract infection, especially pneumonia, is the most common cause of mortality in children.*

Objective: *To analyze the difference in duration of pneumonia in each types of acyanotic congenital heart disease with left-to-right shunts.*

Methods: *This study was designed in cross-sectional. Subjects were children with acyanotic congenital heart disease, with left to right shunt, and pneumonia in the age of 1 month – 5 years, who hospitalized in RSUD Dr. Soetomo, in the year of 2016.*

Results: *Total subjects were 37 patients and 54.05% of them were boys. This case was mostly common in the patient under 12 months old (62.16%). In this case, patient with normal birthweight (55.56%) and good nutrition (48.65%) were the most common. Atrial Septal Defect (ASD) was the most common type lesion with pneumonia (35.14%). Duration of dyspnea was the longest (mean=7.43 days), while fever was the shortest (mean=2.27 days). Duration of cough was 7.06 days, while ronchi was 6.19 days. Patent Ductus Arteriosus (PDA) type lesion had the longest duration of pneumonia (mean=10.2 days). These findings suggest that there was no difference in duration of pneumonia in each types of acyanotic congenital heart disease with left-to-right shunts ($p=0.371$; $p>\alpha=0.05$).*

Conclusion: *There is no difference in duration of pneumonia in each types of acyanotic congenital heart disease with left-to-right shunts.*

Keywords: *Acyanotic congenital heart disease, acute lower respiratory tract infection, pneumonia*