



Article

Prevalence and Clinical Significance of Intraventricular Conduction Disturbances in Hospitalized Children

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Abstract: **Introduction:** Data on the prevalence and clinical significance of interventricular conduction disturbances (IVCDs) in children are scarce. While incomplete right bundle branch blocks (IRBBBs) seem to be the most frequent and benign findings, complete bundle blocks and fascicular blocks are often seen in children with congenital/acquired cardiac conditions. This study aims to delineate the prevalence and the diagnostic accuracy of IVCD in children admitted to a paediatric cardiology unit. **Methods:** Children admitted to the paediatric cardiology unit between January 2010 and December 2020 who had an ECG were included in the study. IVCDs were diagnosed according to standard criteria adjusted for age. **Results:** Three thousand nine hundred and ninety-three patients were enrolled. The median age was 3.1 years (IQR: 0.0–9.2 years), and 52.7% were males. IVCDs were present in 22.5% of the population: 17.4% of the population presented with IRBBBs, 4.8% with a complete right bundle branch block (CRBBB), 0.1% with a complete left bundle branch block (CLBBB), 0.2% with a left anterior fascicular block (LAFB) and 0.2% with a combination of CRBBB and LAFB. Also, 26% of children with congenital heart disease had an IVCD, and 18% of children with an IVCD had previous cardiac surgery. The overall sensitivity of IVCD in detecting a cardiac abnormality was 22.2%, with a specificity of 75.5%, a PPV of 83.1% and an NPV of 15.1%, but the values were higher for CLBBB and LAFB. **Conclusions:** IVCDs were present in one-fifth of children admitted to the cardiology unit. IRBBB was the most frequent disturbance, while CRBBB, CLBBB and fascicular blocks were much rarer, though they had a higher predictive value for cardiac abnormalities.

Keywords: interventricular conduction disturbances; paediatric cardiology; electrocardiogram



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1. Introduction

Myocardial depolarization occurs in a sequential manner via the cardiac electrical conduction system. The impulse starts in the sinus node, expands to the AV node and then, via the bundle of His, reaches the left and right ventricular branches simultaneously (Figure 1). Intraventricular conduction delays (IVCDs) occur when there is an interruption in the transmission to the ventricles, generating bundle blocks, left bundle branch blocks (LBBBs) and right bundle branch block (RBBBs). The left branch is divided into two smaller branches, the left anterior and posterior branches, and a conduction disorder involving these branches is known as a fascicular block—a left anterior fascicular block (LAFB) or a left posterior fascicular block (LPFB) [1,2].

IVCDs are easily recognizable on surface electrocardiograms (ECGs), and their prevalence and correlation with cardiac disease has been thoroughly investigated in adult populations [3–5].

The Clinical Significance Of Disturbances In The Delivery Of Sweat

Daniel F McAuley



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