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Neurodevelopment assessment of children with congenital heart disease by applying Denver Developmental Screening Test (DDST-II)

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The prevalence of congenital heart disease (CHD) is estimated to be 9 per 1000 live births. Children with CHD are under risk of delayed growth and development. Neurodevelopmental delay in children with CHD is reported to be more common with cyanotic CHD and in those requiring surgical intervention. There are many developmental screening tools. DDST-II is a formal developmental screening tool that assesses children from birth to 6 years of age. There is scarce information available on the neurodevelopmental status of Indian children with CHD thus this study was conducted.

Aim: To assess the neurodevelopmental status of a child with CHD by applying the Denver Developmental Screening Test (DDST-II).

Objectives: To determine the prevalence of developmental delay in children with CHD and comparison of neurodevelopmental status in children with acyanotic and cyanotic CHD.

Methods: Cross-sectional study; cases of CHD were included after confirmation by 2D ECHO and children with recognizable genetic syndromes were excluded. DDST-II was performed on these children and developmental delay was determined.

Results: DDST-II showed the developmental delay in 65 out of 82 children (79.26%) with more predilection in children with cyanotic congenital heart disease (85.71%).

Conclusion: The children with congenital heart disease are more susceptible to developmental delay with the predilection for cyanotic congenital heart diseases. Early recognition and palliative treatment can provide these children with a better life.

Biography

Keta Vagha has completed her undergraduate from Jawaharlal Nehru Medical College, Sawangi (Meghe) and is pursuing postgraduation in Pediatrics. She is a third-year resident and wants to work in the field of pediatric cardiology. She aspires to work at the grass root level in India and wants to work for the rehabilitation of children with congenital heart diseases.

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