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Incidence of congenital heart disease among hospital live birth in rural hospital

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Background: Congenital heart disease (CHD) is the most common congenital anomaly in newborns. It has already been recognized as one of the important cause of neonatal mortality and morbidity.

Aim: Aim of this study is to evaluate the incidence and pattern of CHD among newborns of Central India.

Materials & Methods: This was a prospective hospital-based study conducted in the Neonatology Unit of Pediatric Department at Acharya Vinoba Bhave Rural Hospital (AVBRH), Sawangi, Wardha, from April 2012 to May 2014. Measurements of oxygen saturation (SpO₂) were performed on the all four limb by pulse oximeter on day 1 life of all newborns. All suspected neonates were investigated with blood pressure, roentgenograms, electrocardiograms, and echocardiography and were followed up for a period of 3 months.

Results: During the study period, there were 6695 live born neonates at AVBR Hospital. The incidence of CHD observed was 20.16 per thousand live births. Atrial Septal Defect was the commonest lesion found in 34.07% cases, ventricular septal defect in 27.40%, patent ductus arteriosus in 21.48%. The commonest cyanotic CHD detected was transposition of great arteries in 3.70%. Some associated non-cardiac anomalies like Down's syndrome, polydactyl, cleft palate and cataract were found.

Conclusion: The incidence of CHD among live births in Central India is greater than reported in the studies from other part of countries. ASD was the commonest CHD in this study.

Biography

Revat Meshram is working as an Associate Professor in the Dept. of Pediatrics at Jawaharlal Nehru Medical College (JNMC), DMIMS, Sawangi. He has completed his Residency at Government Medical College, Aurangabad. He got Fellowship in Intensive Care at KEM Hospital. He has published over 15 papers in national and international journals and is the author of several pediatrics titles. He is a Life Member of Indian Academy of Pediatrics. He is also a Peer Reviewer of international journals like *Journal of Pediatrics*, and *Journal of Pediatric Intensive Care*, etc.

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