

JOINT EVENT ON

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Tissue Doppler Imaging (TDI) for evaluation of cardiac functions in infants of diabetic mothers (IDM)**Mrudul Kumar and Amar Taksande**

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Introduction : Congenital anomalies occur more commonly in infants born to diabetic mothers, and cardiac defects predominate. Infants of diabetic mothers often develop respiratory problems which need to be differentiated from the cardiovascular problems. Transient cardiac hypertrophy occurs in infants of diabetic mothers.

Aim: To evaluate the cardiac functions by using Tissue Doppler Echocardiography in IDM.

Study Design: Case-Control Study

Material and Methods: Right and left ventricle systolic and diastolic functions of 15 term IDM and 15 healthy term newborns (control) were examined using TDI. Systolic (S'), early diastolic (E'), and late diastolic (A') TDI velocities were measured at the mitral valve (MV) annulus, basal interventricular septum (IVS), and tricuspid valve (TV) annulus. Demographic, perinatal, and echocardiographic variables were compared between IDM and control groups.

Results: IDM groups had significantly greater birth weight, lower gestational age, older maternal age, and higher incidence of maternal obesity and hypertension than controls ($p < 0.001$). The septum was found to be thick in 5 (33.33%) of the IDM. Both the left and right ventricle myocardial velocities were found to be lower in the IDMs compared to the control group. Em/Am ratio was found to be less than one in IDMs in the left ventricle in contrast to the control group.

Conclusion: Tissue Doppler Imaging demonstrated that IVS in IDM disrupt the diastolic function of both ventricles.

Biography

Mrudul Kumar completed his MBBS from Bhaskar Medical College and General hospital, Hyderabad, NTR University of Health Sciences. He is currently pursuing his post-graduation in the Department of Paediatrics (Second Year), from Jawaharlal Nehru Medical College, Datta Meghe Institute of Medical Sciences, Sawangi (Meghe), Wardha, Maharashtra.

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