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Practical approach to echocardiographic diagnosis of pediatric cardiac problems

Echocardiography has become the primary imaging tool in the diagnosis and assessment of congenital and acquired heart disease in infants, children, and adolescents. Transthoracic echocardiography (TTE) is an ideal tool for cardiac assessment, as it is noninvasive, portable, and efficacious in providing detailed anatomic, hemodynamic, and physiologic information about the pediatric heart. 2 D echocardiography is used to evaluate cardiac anatomy, valvular morphology, to detect the presence of vegetation from endocarditis and to examine for the presence of pericardial fluid and for chamber or vessel thrombi. Colour Doppler is of great value in confirmation of intracardiac shunt and valvular regurgitation and/ or stenosis, while Doppler is used to estimate intracardiac pressures and pressure gradients across valves and vessels, pressure gradient across a defect, and to estimate filling pressure and fluid responsiveness. M- Mode echocardiography derived measurements are useful to quantify ventricular systolic function. The aim of this workshop is to establish the indications of TTE, to demonstrate various Echocardiographic views, explain the value of each one and to discuss the value of each modality of transthoracic echocardiography in evaluation of common pediatric cardiac problems as congenital and acquired heart diseases as well as the value of use of Echocardiographic findings in decision making of common pediatric cardiac problems.

Biography

Gehan Hussein Ahmed Abdelgalil is the Professor of Pediatrics, Faculty of Medicine, Cairo University, Egypt (from 2009). She has completed his Graduation in 1990, Master Degree in Pediatrics in 1994 and MD Degree in Pediatrics in 1998. She has worked in Pediatric Cardiology Division (1995 till now). In addition to general pediatric experience, she has special interest in pediatric echocardiography for congenital and acquired heart diseases in pediatrics, post-operative care for pediatric cases after palliative and/or corrective cardiac surgery as well as interventional cardiac catheterization for 11 years (2005 to 2016), worked as unit head of inpatient pediatric cardiology department in new children hospital, Cairo University (2016-2017).

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