

Three-Dimensional Echocardiography in Pediatric Cardiology

Katz, Uriel; Almaleh, David; Salem, Yishay; Danieli, Joseph; Vardi, Amir; Keidan, Ilan; Tirosh-Wagner, Tal; Gordin, Lital; Mishali, David

The Edmond and Lilly Safra Children's Hospital, Sheba Medical Center, Tel Hashomer, Israel

Ultrasound technology has improved markedly in the past decade, prompting cardiologists to extend its use in studying cardiac structure and function. One of the most significant developments was the introduction of 3-dimensional (3D) imaging, providing realistic and unique comprehensive views of cardiac structures and congenital abnormalities.

The evolution from slow and labor-intensive off-line reconstruction to real-time three-dimensional echocardiography (RT3DE) enabled incorporating 3D imaging into the clinical setting.

In the past two years we have been using 3D imaging increasingly, making it an integral part of echocardiographic evaluation, and becoming familiar with the unique capabilities it provides as well as its limitations.

We present our experience with 3D echocardiography, demonstrating its use in the evaluation of different clinical settings.