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Cardiovascular hemodynamics assessment in children

Samah Salah Alasrawi
Al Jalila Children's Specialty Hospital, UAE

Objective: To know how we can assist the cardiac hemodynamics, what we measure: Intra cardiac pressures. What we calculate: Cardiac output, Qp (pulmonary blood flow), Qs (systemic blood flow), PVR (Pulmonary vascular resistance), SVR (systemic vascular resistance), Ejection Fraction, RVSP (Right ventricle systolic pressure), PAP (Pulmonary Artery Pressure). Obtaining accurate hemodynamics requires careful attention to detail, Calculation of cardiac output has many potential sources of error, limit assumptions as much as possible. Valuable information about disease states can be obtained with basic diagnostic catheterization and good Echo.

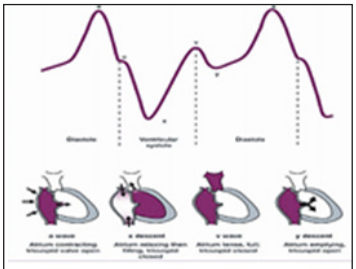

Figure-1: Atrial tracing during the heart cycle

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Biography

Samah Salah Alasrawi is a Pediatric Cardiologist at Al Jalila Children's Specialty Hospital. She has completed her Bachelor's degree and Master's degree in Pediatric Cardiology from Damascus University, Syria. She has clinical and research interests in congenital heart diseases, pulmonary hypertension, cardiomyopathies and arrhythmias in children.

samahisrawi@gmail.com

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