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### Change in risk factors influencing cardiac functions in pediatric renal transplanted patients

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Cardiovascular disease accounts for the majority of deaths in children with chronic kidney disease (CKD) and post renal transplantation. The main objective of this work was to study the prevalence of the different cardiovascular risk factors presented either before or after renal transplantation measuring the LV function using conventional 2D, M mode echocardiography (left ventricular mass index (LVMI), pulsed Doppler (E/A ratio) and tissue Doppler imaging (E', A', E'/A' and E/E')). This Cross-sectional, observational study included 30 children with renal transplantation and 10 normal children as control. Patients age of ranged from 5-14 years. Significant improvement in risk factors: Anaemia, Hypercholesterolaemia, and hypertension HTN (p value 0.002, 0.005, and < 0.001 respectively) after renal transplantation was observed. Among transplanted patients, Prevalence of left ventricular hypertrophy was 93.3%. Patients have significant increase in left ventricular mass index (LVMI) than controls (p<0.001), significant higher E/A ratio (p 0.014) and significant lower A' (p <0.001), presence of HTN pre and post renal transplantation was the only risk factor significantly affecting the diastolic cardiac function with significant E/E' (p 0.001 and p<0.001).

#### Biography

Amira Esmat El Tantawy has completed her PhD in Pediatrics from Kasr Alainy School of Medicine Cairo University. She is a Professor of Pediatrics and Pediatric Cardiology Consultant in Cairo University. She is the Director of Pediatric Cardiology training in the Department of Pediatrics, Abo El rish Children's specialized Hospital. She is one of Coordinators of Quality Assurance Cairo University. She is a Board Member founder of Ministry of health Pediatric Cardiology Fellowship. She won Cairo University Award of the best PHD thesis in 2012. She has more than 20 publications of which 6 are recognized internationally.

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