

5th International Conference on **Clinical & Experimental Cardiology**

April 27-29, 2015 Philadelphia, USA

Study of left ventricular function in women with insulin dependent diabetes mellitus during pregnancy

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The aim of the study is to study the hemodynamic parameters under increased volume load during pregnancy in women with insulin dependent diabetes mellitus. 42 Pregnant IDDM women who came to diabetic research center anantapur, India between June 2012 to August 2013 aged 24+-6 are taken for the study and 42 healthy pregnant women are studied as control group. In all these pregnant women left ventricular mass, mitral flow, pulmonary venous flow and left ventricular diastolic function were analyzed. During pregnancy left ventricular mass increase and left ventricular dysfunction was found. Healthy pregnant diabetic women developed signs of disturbed relaxation at the beginning of gestation. 29 pregnant diabetic women developed restrictive filling pattern at 24th week of gestation. 10 of 29 pregnant diabetic women developed dangerous complications. While there were no complications in healthy pregnant women and other 22 pregnant diabetic women. In healthy women pregnancy results in reversible physiologic left ventricular hypertrophy, a disturbed relaxation pattern and temporary decrease of ventricular systolic functions. In contrast pregnant diabetic women showed a delayed relaxation at the beginning of the pregnancy and developed restrictive filling pattern. The early development of restrictive filling pattern indicates complications during delivery in pregnant diabetic women.

Biography

Pooja Chiniga is a final year student at Kurnool Medical College, Kurnool. She is very individualistic person and driven by her talents, she can constantly investigate the "how's", and "why's" of a given situation which would be very beneficial to not herself, but other people who want to work in the world of medicine. Prior to starting medical school at Kurnool, Pooja won state level prestigious pratibha award and ranked top 2 of the schooling. Her academic credentials are unmatched as she scored 95% in all her academic endeavours. She is passionate about medical research in fields of DNA and advances in Therapeutic Research. She hopes to be a fair, representative advocate for her fellow medical students.

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