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## Assessment of fetal cardiac function with maternal hypertension: Fetal echocardiography study

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Background: Maternal hypertension may result in significant maternal, fetal and neonatal morbidity and mortality.

Aim: To study the effects of maternal hypertension with their complications on human fetal cardiac function.

Methods: A prospective study included 59 singleton pregnancies with hypertension (gestational age ranging from 22-30 weeks). The diagnosis of maternal hypertension was based on clinical criteria. We classified our cases into three groups. Group I consisted of 38 preeclampatic. 14 pregnant women diagnosed with chronic hypertension in group II and in group III, seven pregnant women diagnosed as pregnancy induced hypertension (PIH). Each group was sub-classified into mild or severe form of hypertension. Umbilical artery indices were calculated, resistance index (RI), S/D ratio. Complete fetal echocardiographic examination and Tei Doppler index were calculated. The control group consisted of 25 normal singleton pregnancies.

**Conclusion:** We concluded that maternal hypertension especially a severe form of preeclampsia and chronic hypertension had a significant global fetal cardiac dysfunction and significant of umbilical artery indices.

**Recommendation:** The clinical significance of fetal cardiac disturbances with maternal hypertension must be addressed in the future studies.

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