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Myocardial hypertrophy and dysfunction in matern	al diabetes	S.
(PMID:22445568)		
Zielinsky P, Piccoli AL Jr Fetal Cardiology Unit, Institute of Cardiology, Porto Alegre, Brazil. Early Human Development [2012, 88(5):273-278] Type: Journal Article DOI: 10.1016/j.earlhumdev.2012.02.006	. zielinsky@ca	
Abstract		Highlight Terms 💈
		\square Gene Ontology(2) \square Diseases(2)

Diabetes in pregnancy, both pre-gestational and gestational, is a frequent cause of fetal myocardial hypertrophy, partly due to fetal hyperinsulinism. In fetal life, cardiac function may be impaired, especially during diastole, as a result of decreased left ventricular distensibility and altered left atrial dynamics secondary to myocardial hypertrophy. In neonates, the hypertrophy is a transient disorder, with spontaneous regression of the increased myocardial thickness during the first months of life. Nevertheless, cardiac hypertrophy may be associated with neonatal cardiomegaly and respiratory distress secondary to poor left ventricular compliance. The development of a number of new echocardiographic parameters discussed in this article, and primarily based on the pathophysiological consequences of myocardial hypertrophy, highlight an area of research priority: the assessment of diastolic function in fetuses of diabetic mothers with (and without) myocardial hypertrophy. A score for grading the severity of fetal diastolic dysfunction in these fetuses is proposed.

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