

## Supplemental Online Content

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**eTable.** Fitted regression models for each of the studied cardiac indices

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable. Fitted regression models for each of the studied cardiac indices

<b>FETAL CARDIAC INDEX</b>	<b>Estimate (95% CI)</b>	<b>p-value</b>
<b>MORPHOMETRY</b>		
<b>Right ventricular sphericity index</b>		
Intercept	1.889968 (1.878309. 1.901628)	<0.0001
Maternal weight in kg - 69	-0.001395 (-0.002166. -0.000623)	0.0004
Black	-0.034118 (-0.065039. -0.003196)	0.031
In vitro fertilization – frozen embryo	-0.067516 (-0.119159. -0.015873)	0.010
<b>Left ventricular sphericity index</b>		
Intercept	2.176506 (2.157555. 2.195456)	<0.0001
In vitro fertilization – fresh embryo	-0.190047 (-0.320786. -0.059309)	0.004
In vitro fertilization – frozen embryo	-0.185714 (-0.276882. -0.094546)	<0.0001
<b>Longitudinal left ventricular diameter (mm)</b>		
Intercept	5.228835 (3.551780. 6.905889)	<0.0001
Gestational age in days - 77	0.110968 (0.087557. 0.134380)	<0.0001
<b>Transverse left ventricular diameter (mm)</b>		
Intercept	2.377344 (1.695809. 3.058880)	<0.0001
Gestational age in days - 77	0.053759 (0.044245. 0.063273)	<0.0001
Maternal weight in kg - 69	0.004479 (0.001733. 0.007224)	0.001
In vitro fertilization – fresh embryo	0.535173 (0.264858. 0.805488)	0.0001
In vitro fertilization – frozen embryo	0.759670 (0.571055. 0.948285)	<0.0001
<b>Longitudinal right ventricular diameter (mm)</b>		
Intercept	-12.351718 (-21.735333. -2.968104)	0.010
Preeclampsia	0.421532 (0.143064. 0.700000)	0.003
Gestational age in days - 77	0.550456 (0.287681. 0.813230)	<0.0001
(Gestational age in days - 77)^2	-0.003048 ( -0.004886. -0.001211)	0.001
In vitro fertilization – fresh embryo	0.378225 (0.049841. 0.706609)	0.024
In vitro fertilization – frozen embryo	0.477538 (0.248044. 0.707031)	<0.0001
<b>Transverse right ventricular diameter (mm)</b>		
Intercept	2.055854 (1.456737. 2.654971)	<0.0001
Preeclampsia	0.288236 (0.086337. 0.490134)	0.005
Hypothyroidism	-0.267660 (-0.475347. -0.059972)	0.012
Gestational age in days - 77	0.057471 (0.049104. 0.065838)	<0.0001
Maternal weight in kg - 69	0.004814 (0.002329. 0.007298)	0.0002
Black race	0.144988 (0.045377. 0.244598)	0.004
In vitro fertilization – fresh embryo	0.340203 (0.101057. 0.579348)	0.005
In vitro fertilization – frozen embryo	0.499723 (0.332838. 0.666609)	<0.0001
SLE/APS	0.938485 (0.242997. 1.633973)	0.008
<b>Interventricular septal diameter in diastole (mm)</b>		
Intercept	1.632639 (1.529699. 1.735578)	<0.0001

GDM	0.043397 (0.031181. 0.055612)	<0.0001
Hyperthyroidism	-0.122472 (-0.216559. -0.028384)	0.011
Gestational age in days - 77	0.009395 (0.007943. 0.010846)	<0.0001
<b>CONVENTIONAL DIASTOLIC INDICES</b>		
<b>Mitral valve E (cm/sec)</b>		
Intercept	23.160802 (20.554499. 25.767106)	<0.0001
Gestational age in days - 77	0.101822 (0.065424. 0.138220)	<0.0001
Maternal weight in kg - 69	-0.024419 (-0.034654. -0.014185)	<0.0001
<b>Mitral valve A(cm/sec)</b>		
Intercept	41.528400 (37.932636. 45.124163)	<0.0001
Gestational age in days - 77	0.075824 (0.025592. 0.126056)	0.003
Maternal weight in kg - 69	-0.026586 (-0.041073. -0.012099)	0.0003
Black race	0.721461 (0.132520. 1.310402)	0.016
<b>Mitral valve E/A</b>		
Intercept	0.579580 (0.532889. 0.626270)	<0.0001
Hypothyroidism	-0.021532 (-0.037290. -0.005773)	0.007
Gestational age in days - 77	0.001029 (0.000377. 0.001681)	0.002
Maternal weight in kg - 69	-0.000203 (-0.000386. -0.000019)	0.031
Parous. previous GDM	-0.025194 (-0.046885. -0.003503)	0.023
<b>E/e'</b>		
Intercept	15.434175 (13.782075. 17.086275)	<0.0001
Preeclampsia	-6.097561 (-11.058297. -1.136825)	0.016
Gestational age at delivery with preeclampsia (weeks)	0.151738 (0.021017. 0.282459)	0.023
Heart rate	-0.022658 ( -0.030824. -0.014492)	<0.0001
Gestational age in days - 77	-0.022210 ( -0.037959. -0.006460)	0.006
Maternal age in years - 35	-0.015953 ( -0.028734. -0.003172)	0.014
<b>Left atrial area (cm2)</b>		
Intercept	0.952544 (0.504637. 1.400451)	<0.0001
GDM	0.040678 (0.036271. 0.045084)	<0.0001
Gestational age in days - 77	-0.022142 (-0.034727. -0.009558)	0.0006
(Gestational age in days - 77)^2	0.000187 (0.000099. 0.000275)	<0.0001
<b>Isovolumic relaxation time (sec)</b>		
Intercept	0.039383 (0.038555. 0.040211)	<0.0001
Preeclampsia	0.083566 (0.019793. 0.147340)	0.010
Gestational age at delivery with preeclampsia (weeks)	-0.001953 (-0.003632. -0.000273)	0.023
<b>CONVENTIONAL SYSTOLIC INDICES</b>		
<b>Myocardial performance index</b>		

Intercept	0.347393 (0.309180. 0.385605)	<0.0001
Gestational age in days - 77	0.000774 (0.000241. 0.001308)	0.004
Maternal weight in kg - 69	0.000195 (0.000044. 0.000347)	0.011
South Asian race	-0.009971 (-0.019056. -0.000885)	0.032
<b>Tricuspid annular plane systolic excursion (mm)</b>		
Intercept	2.001333 (1.657708. 2.344959)	<0.0001
Gestational age in days - 77	0.028942 (0.024145. 0.033738)	<0.0001
<b>Ejection time (msec)</b>		
Intercept	0.170219 (0.169548. 0.170891)	<0.0001
Maternal weight in kg - 69	-0.000058 (-0.000103. -0.000014)	0.011
In vitro fertilization – fresh embryo	0.004888 (0.000291. 0.009485)	0.037
<b>SPECKLE TRACKING MEASURES</b>		
<b>Right ventricular global longitudinal strain (%)</b>		
Intercept	-23.537167 (-25.689366. -21.384967)	<0.0001
Gestational age in days - 77	0.041710 (0.011683. 0.071738)	0.007
<b>Left ventricular global longitudinal strain(%)</b>		
Intercept	-23.840750 (-24.097904. -23.583597)	<0.0001
Maternal weight in kg - 69	0.025714 (0.008320. 0.043109)	0.004
Maternal height in cm - 164	-0.038803 ( -0.073295. -0.004311)	0.028
Maternal age in years - 35	0.061688 (0.016641. 0.106735)	0.007
In vitro fertilization – fresh embryo	2.193264 (0.685600. 3.700927)	0.004
In vitro fertilization – frozen embryo	2.348666 (1.275848. 3.421483)	<0.0001
<b>Left ventricular ejection fraction (%)</b>		
Intercept	0.724669 (0.719272. 0.730066)	<0.0001
Preeclampsia	-0.027025 (-0.052964. -0.001086)	0.041
GDM	0.018595 (0.002613. 0.034577)	0.023
Maternal age in years - 35	-0.001096 (-0.001995. -0.000196)	0.017
Black race	-0.013617 (-0.026295. -0.000939)	0.035
East Asian race	-0.028700 (-0.055841. -0.001558)	0.038
In vitro fertilization – fresh embryo	-0.044692 (-0.074742. -0.014643)	0.004
In vitro fertilization – frozen embryo	-0.054826 (-0.076241. -0.033411)	<0.0001

Intercept: constant in multiple regression

Reference categories were Outcome: No GDM or PE; Ethnicity: White; Method of conception: Spontaneous; Parity: Nullip; Auto-immune disease: No; Thyroid disease: No. Terms for gestational age, maternal weight and maternal age relate to a 1 unit increase in the given covariate (units are specified within the table).