

**Table S2.** Basal left ventricular echocardiographic parameters, heart rate, and body weight of the offspring.

**1-week-old male offspring**

group/(n)	AWTd	LVDd	PWTd	AWTs	LVDs	PWTs	FS %	HR	BW
<i>Wt</i> non-diabetic pregnancy/(n=20)	0.37	1.92	0.39	0.62	0.86	0.67	55.5	444	3.7
SEM	0.01	0.03	0.01	0.02	0.03	0.01	1.4	16	0.09
<i>Wt</i> diabetic pregnancy/(n=14)	0.4	1.69	0.4	0.56	0.74	0.65	56.3	431	2.8
SEM	0.01	0.06	0.01	0.02	0.04	0.03	1.24	16	0.19
<i>Hif1a</i> <sup>+/-</sup> non-diabetic pregnancy/(n=17)	0.4	1.99	0.41	0.62	0.93	0.68	53.5	421	3.7
SEM	0.01	0.03	0.01	0.02	0.04	0.02	1.68	14	0.1
<i>Hif1a</i> <sup>+/-</sup> diabetic pregnancy/(n=9)	0.37	1.74	0.38	0.55	0.83	0.59	52.9	431	3.0
SEM	0.01	0.1	0.01	0.02	0.07	0.03	2.05	22	0.253

**12-week-old male offspring**

group/(n)	AWTd	LVDd	PWTd	AWTs	LVDs	PWTs	FS %	HR	BW
<i>Wt</i> non-diabetic pregnancy/(n=20)	0.76	3.92	0.7	1.17	2.31	1.22	41.2 <sup>†‡§</sup>	477 <sup>†§</sup>	25.9 <sup>†§</sup>
SEM	0.02	0.06	0.02	0.02	0.05	0.02	0.6	6	1.5
<i>Wt</i> diabetic pregnancy/(n=15)	0.69	3.73	0.66	1.02	2.35	1.06	37.0 <sup>§</sup>	440 <sup>*</sup>	23.6 <sup>*‡</sup>
SEM	0.01	0.04	0.01	0.02	0.04	0.02	0.4	10	0.6
<i>Hif1a</i> <sup>+/-</sup> non-diabetic pregnancy/(n=15)	0.75	3.93	0.70	1.10	2.46	1.13	37.5 <sup>§</sup>	469 <sup>§</sup>	27.6 <sup>†§</sup>
SEM	0.02	0.09	0.02	0.03	0.09	0.03	1.1	10	0.8
<i>Hif1a</i> <sup>+/-</sup> diabetic pregnancy/(n=10)	0.62	3.85	0.61	0.91	2.64	0.93	31.4 <sup>*†‡</sup>	425 <sup>*‡</sup>	24.0 <sup>*‡</sup>
SEM	0.01	0.04	0.01	0.02	0.03	0.03	0.6	10	0.7

**1-week-old female offspring**

group/(n)	AWTd	LVDd	PWTd	AWTs	LVDs	PWTs	FS %	HR	BW
<i>Wt</i> non-diabetic pregnancy/(n=19)	0.36	1.87	0.38	0.60	0.83	0.64	55.6	439	3.6
SEM	0.01	0.03	0.01	0.02	0.04	0.02	1.47	14	0.10
<i>Wt</i> diabetic pregnancy/(n=18)	0.39	1.75	0.39	0.61	0.79	0.64	54.9	427	3.1
SEM	0.01	0.05	0.01	0.01	0.03	0.02	1.14	12	0.15
<i>Hif1a</i> <sup>+/-</sup> non-diabetic pregnancy/(n=22)	0.38	1.90	0.40	0.62	0.83	0.67	56.1	429	3.4
SEM	0.01	0.03	0.01	0.02	0.02	0.02	1.07	13	0.11
<i>Hif1a</i> <sup>+/-</sup> diabetic pregnancy/(n=7)	0.39	1.71	0.40	0.57	0.77	0.61	54.9	416	3.0
SEM	0.01	0.06	0.01	0.01	0.04	0.02	1.44	31	0.21

**12-week-old female offspring**

group/(n)	AWTd	LVDd	PWTd	AWTs	LVDs	PWTs	FS %	HR	BW
<i>Wt</i> non-diabetic pregnancy/(n=22)	0.67	3.72	0.65	1.08	2.29	1.09	38.1 <sup>†‡§</sup>	419	22.8 <sup>†§</sup>
SEM	0.01	0.03	0.01	0.01	0.02	0.02	0.4	11	0.4
<i>Wt</i> diabetic pregnancy/(n=19)	0.64	3.6	0.64	0.93	2.35	1.01	34.4 <sup>†‡§</sup>	434	20.8 <sup>*‡</sup>
SEM	0.01	0.05	0.01	0.02	0.04	0.02	0.4	10	0.5
<i>Hif1a</i> <sup>+/-</sup> non-diabetic pregnancy/(n=23)	0.71	3.68	0.7	1.02	2.35	1.07	36.1 <sup>†‡§</sup>	406	22.5 <sup>†</sup>
SEM	0.01	0.03	0.02	0.02	0.03	0.02	0.5	9	0.3
<i>Hif1a</i> <sup>+/-</sup> diabetic pregnancy/(n=7)	0.65	3.58	0.57	0.86	2.44	0.86	31.8 <sup>*†‡</sup>	449	19.7 <sup>*‡</sup>
SEM	0.01	0.09	0.01	0.02	0.09	0.02	1.2	14	0.5

AWTd, diastolic anterior wall thickness; LVDd, left ventricle diastolic cavity diameter; PWTd, diastolic posterior wall thickness; AWTs systolic anterior wall thickness; LVDs, left ventricle systolic cavity diameter; PWTs, systolic posterior wall thickness; FS%, fractional shortening; HR, heart rate; BW, body weight. Significant differences by post hoc Tukey's multiple-comparison test; \*, P < 0.05 in comparison to *Wt* non-diabetic pregnancy; †, P < 0.05 in comparison to *Wt* diabetic pregnancy; ‡, P < 0.05 in comparison to *Hif1a*<sup>+/-</sup> non-diabetic pregnancy; §, P < 0.05 in comparison to *Hif1a*<sup>+/-</sup> diabetic pregnancy.