ONLINE APPENDIX

Raised Late Pregnancy Glucose Concentrations in Mice carrying Pups with Targeted Disruption of $H19^{413}$

Running title: H19^{Δ13+/-} pups & Maternal Glucose Levels

Clive J. Petry¹, Mark L. Evans^{2, 3}, Dianne L. Wingate¹, Ken K. Ong^{1, 4}, Wolf Reik^{5, 6}, Miguel Constância^{3, 5, 6, 7}, David B. Dunger^{1, 3}

¹Department of Paediatrics, University of Cambridge, Cambridge, U.K.; ²Department of Medicine, University of Cambridge, Cambridge, U.K.; ³Institute of Metabolic Science, University of Cambridge, Cambridge, U.K.; ⁴M.R.C. Epidemiology Unit, Addenbrooke's Hospital, Cambridge, U.K.; ⁵Babraham Institute, Babraham, U.K.; ⁶Centre for Trophoblast Research, University of Cambridge, Cambridge, UK; ⁷Department of Obstetrics & Gynaecology, University of Cambridge, Cambridge, Cambridge, U.K.

<u>Table SD1</u> Body weights of unborn pups on days 16 and 18 of pregnancy. Due to the effects of imprinting weights of $H19^{\Delta I3+/-}$ pups were indistinguishable from those of wild type $(H19^{\Delta I3+/-})$ pups and so are presented together. At day 16 there was a significant correlation between litter total fetal weights and areas under the mothers glucose curves (r=0.88; p=0.04). This relationship was no longer statistically significant on day 18 (r=0.44; p=0.07). Data are mean (SD).

Day of Pregnancy	Genetic Status of Pups	n	Weight (g)
16	$H19^{\Delta I3+/+} \& H19^{\Delta I3+/-}$	89	0.680 (0.118)
	H19 ^{△13-/+}	29	0.801 (0.142)
18	$H19^{\Delta 13+/+} \& H19^{\Delta 13+/-}$	104	1.143 (0.135)
	H19 ^{Δ13-/+}	34	1.410 (0.206)

Table SD2 Mean (95 % confidence interval) areas under the maternal GTT curves on days 16 and 18 of pregnancy. There was a significant association with both the group (p=0.002) and the day of pregnancy (p=0.014) on the areas, along with a near significant interaction between the two (p=0.07). This statistical model explained 33.8 % of the variation in the areas under the GTT curves around this stage of pregnancy.

Group	Day of	n	Mean (95 % Confidence Interval) Area under the GTT	
	Pregnancy		Curve (mmol.min/L)	
Control	16	9	1386 (1235~1537)	
Experimental	16	8	1780 (1619~1940)	
Control	18	9	1333 (1182~1484)	
Experimental	18	9	1444 (1293~1595)	