

Supplement Table1 Odds ratio (OR) of non-chromosomal congenital anomalies by diabetic treatment in the first trimester[#]

	Human insulin only N=870	Insulin analog only N=397	Human insulin & insulin analog N=394
Major congenital anomaly			
N (%)	70 (8.0)	15 (3.8)	19 (4.8)
Crude OR (95% CI)	reference	0.45 (0.25-0.79)	0.58 (0.34-0.97)
Adjusted OR (95% CI)*	reference	0.46 (0.26-0.83)	0.59 (0.35-1.00)
Congenital heart defects			
N (%)	35 (4.0)	3 (0.8)	14 (3.6)
Crude OR (95% CI)	reference	0.18 (0.05-0.58)	0.85 (0.45 -1.60)
Adjusted OR (95% CI)*	reference	0.20 (0.06-0.66)	0.83 (0.42 -1.63)
Adverse outcomes ⁺			
N (%)	81 (9.3)	30 (7.6)	30 (7.6)
Crude OR (95% CI)	reference	0.79 (0.51-1.22)	0.80 (0.52-1.23)
Adjusted OR (95% CI)*	reference	0.87 (0.55-1.36)	0.84 (0.54-1.31)

[#] Including subjects with missing HbA1C value

*adjusted for centre as a random effect and adjust for HbA1C value in the 1st trimester (including missing as separate group)

⁺ including major congenital anomaly or fetal deaths