SUPPLEMENTARY DATA

Supplementary Table 1. Maternal characteristics at enrolment and 36 weeks gestation.

Variable	Enrolment	36 weeks	P
Weight (kg) [n]	90.3 (88.2-92.5) [432]	90.6 (88.4-92.9) [395]	< 0.001
BMI (kg/m^2) [n]	34.1 (33.4-34.9) [432]	34.2 (33.5-34.9) [395]	< 0.001
SBP (mmHg) [n]	112.5 (111.3-113.8) [426]	115.4 (114.1-116.7) [427]	< 0.001
DBP (mmHg) [n]	68.2 (67.3-69.0) [426]	70.6 (69.7-71.5) [427]	< 0.001
Fasting plasma triglycerides (mmol/L) [n]	2.4 (2.4-2.5) [432]	2.8 (2.7-2.9) [432]	< 0.001
Fasting plasma glucose (mmol/L) [n]	5.1 (5.0-5.2) [415]	4.3 (4.3-4.4) [414]	< 0.001
HbA1c (%) [n]	5.7 (5.6-5.7) [423]	5.6 (5.6-5.7) [417]	0.004

Data is presented as (mean (95% CI)) except where indicated

SUPPLEMENTARY DATA

Supplementary Table 2. Measures of maternal glucose control and triglycerides, stratified by treatment received.

	Metformin Alone (n=122)	Metformin and Insulin (n=97)	Insulin Alone (n=213)	P
Maternal age	32.9 (32.0 – 33.8)	32.9 (32.2 – 33.5)	33.7 (32.6 – 34.8)	0.38
Caucasian n(%)	74 (60.7)	49 (50.5)	114 (53.5)	0.009
Indian n(%)	15 (12.3)	12 (12.4)	39 (18.3)	
Polynesian n(%)	10 (8.2)	25 (25.8)	31 (14.6)	
Asian n(%)	23 (18.9)	11 (11.3)	29 (13.6)	
Smoking during pregnancy n(%)	23 (18.9)	17 (17.5)	26 (12.2)	0.21
Tertiary education n(%)	63 (51.6)	41 (42.7)	108 (50.9)	0.34
Enrolment				
Fasting plasma glucose (mmol/L)	4.83 (4.73 – 4.94)	5.50 (5.29 – 5.72)	5.07 (4.95 – 5.20)	<0.001
HbA1c (%)	5.50 (5.40 – 5.60)	5.82 (5.70 – 5.94)	5.68 (5.59 – 5.77)	0.001
Fasting plasma triglycerides (mmol/L)	2.47 (2.31 – 2.64)	2.50 (2.30 – 2.71)	2.37 (2.28 – 2.48)	0.41
36 weeks gestation				
Fasting plasma glucose (mmol/L)	4.34 (4.25 – 4.43)	4.44 (4.31 – 4.57)	4.25 (4.17 – 4.33)	0.02
HbA1c (%)	5.48 (5.39 – 5.56)	5.73 (5.63 – 5.83)	5.62 (5.54 – 5.71)	0.003
Fasting plasma triglycerides (mmol/L)	2.97 (2.79 – 3.17)	2.90 (2.69 – 3.12)	2.65 (2.54 – 2.77)	0.007
Percentage change from enrolment to 36 weeks gestation (%)				
Fasting plasma glucose (%)	-10.0(-12.3 - -7.7)	-17.5 (-20.5 - -14.4)	-15.2 (-17.2 - -13.2)	<0.001
HbA1c (%)	-0.2 (-1.5 – 1.2)	-1.4 (-2.8 - -0.1)	-0.9 (-2.0 – 0.3)	0.49
Fasting plasma triglycerides (%)	23.7 (18.4 – 29.0)	20.1 (13.4 – 27.0)	14.6 (11.1 – 18.1)	0.02

SUPPLEMENTARY DATA

Data is presented as (mean (95% CI)) except where indicated.

Supplementary Table 3. Variables significantly associated with maternal triglycerides at enrolment and at 36 weeks gestation, on univariate analyses.

Parameter	Geometric mean or regression coefficient *	95 % Confidence Interval		P
		Lower Bound	Upper Bound	
Enrolment				
Gestation at randomisation (weeks)	1.02	1.01	1.03	< 0.001
Ethnicity				0.32
Asian	2.59	2.37	2.82	
Polynesian	2.31	2.12	2.52	
Indian	2.45	2.25	2.67	
Caucasian	2.41	2.31	2.52	
Smoking	2.75	2.53	2.99	0.002
No smoking	2.37	2.29	2.46	
Enrolment HbA1c (%)	1.11	1.05	1.16	< 0.001
Enrolment Glucose	1.04	1.01	1.08	0.01
Enrolment DBP	1.00	1.00	1.01	0.05
36 weeks gestation				
Treatment (Insulin)	2.65	2.54	2.78	0.002
Treatment (Metformin)	2.94	2.81	3.08	
Ethnicity				0.001
Asian	3.15	2.89	3.43	
Polynesian	2.45	2.25	2.67	
Indian	2.71	2.49	2.94	
Caucasian	2.82	2.69	2.95	

* The data represent geometric mean and 95% CI for categorical variables and geometric regression coefficient and 95% CI for continuous variables

SUPPLEMENTARY DATA

Supplementary Table 4. Variables significantly associated with maternal triglycerides at 36 weeks gestation, on univariate analyses, stratified by treatment received.

Parameter	Geometric mean or regression coefficient *	95 % Confidence Interval		P
		Lower Bound	Upper Bound	
Treatment				0.01
Metformin alone	2.97	2.80	3.16	
Metformin and insulin	2.90	2.71	3.10	
Insulin alone	2.65	2.54	2.78	
Insulin alone				
Ethnicity				0.21
Asian	2.98	2.65	3.34	
Polynesian	2.55	2.28	2.86	
Indian	2.65	2.40	2.93	
Caucasian	2.61	2.46	2.76	
Gestation at randomisation (weeks)	2.65	2.54	2.77	0.40
36 week HbA1c (%)	2.66	2.54	2.78	0.03
Metformin Alone				
Ethnicity				0.02
Asian	3.49	3.03	4.01	
Polynesian	2.48	2.01	3.07	
Indian	2.59	2.18	3.08	
Caucasian	2.98	2.76	3.22	
Gestation at randomisation (weeks)	2.97	2.79	3.16	0.17
36 week HbA1c (%)	2.94	2.76	3.13	0.31
Metformin and Insulin				
Ethnicity				0.19
Asian	3.13	2.51	3.90	
Polynesian	2.53	2.18	2.92	
Indian	2.91	2.36	3.59	
Caucasian	3.05	2.75	3.39	
Gestation at randomisation (weeks)	2.90	2.69	3.12	0.02
36 week HbA1c (%)	2.89	2.68	3.12	0.30

* The data represent geometric mean and 95% CI for categorical variables and geometric regression coefficient and 95% CI for continuous variables.

SUPPLEMENTARY DATA

Supplementary Table 5. Associations with maternal triglycerides at 36 weeks gestation, in multivariate analysis, stratified by treatment received.

Insulin	Geometric mean or regression coefficient *	95 % Confidence Interval		P
		Lower Bound	Upper Bound	
Ethnicity				0.14
Asian	2.96	2.63	3.33	
Polynesian	2.43	2.15	2.74	
Indian	2.69	2.43	2.98	
Caucasian	2.64	2.48	2.81	
36 week HbA1c	1.10	1.02	1.18	0.02
Metformin alone				
Ethnicity				0.02
Asian	3.45	3.00	3.98	
Polynesian	2.47	1.99	3.05	
Indian	2.54	2.12	3.04	
Caucasian	2.94	2.71	3.19	
36 week HbA1c	1.07	0.93	1.23	0.32
Metformin and insulin				
Ethnicity				0.33
Asian	3.06	2.42	3.87	
Polynesian	2.53	2.16	2.97	
Indian	2.92	2.35	3.62	
Caucasian	3.05	2.72	3.42	
36 week HbA1c	0.99	0.83	1.19	0.93

* The data represent geometric mean and 95% CI for categorical variables and geometric regression coefficient and 95% CI for continuous variables