Table S5. Sensitivity analysis of prediction models using multiple imputation.

Predictors	Model 1 * OR (95%CI) (n=3,752)	Model 2 * OR (95%CI) (n=3,752)	Model 3 * OR (95%CI) (n=3,752)	Model 4 * OR (95%CI) (n=3,752)	Model 5 * OR (95%CI) (n=3,752)
Clinical factors at 14-16 weeks					
Maternal birthweight (per 500g)	1.26 (1.14 - 1.41)	1.28 (1.15 - 1.43)	1.20 (1.08 - 1.34)	1.22 (1.09 - 1.36)	1.21 (1.08 - 1.35)
Candidate biomarkers at 14-16 weeks					
Random glucose (per 0.2 log)		1.28 (1.12 - 1.45)		1.23 (1.08 - 1.41)	1.28 (1.11 - 1.45)
LDL- cholesterol (per 1 log of MoM)		1.85 (1.23 - 2.80)			
Clinical factors and ultrasound at 19-21 weeks					
Gestational weight gain (per 500g/week)			1.31 (1.13 - 1.50)	1.32 (1.14 - 1.52)	1.32 (1.14 - 1.52)
AC Z-score at ultrasound			1.52 (1.35 - 1.72)	1.52 (1.34 - 1.72)	1.53 (1.35 - 1.73)
HC Z-score at ultrasound			1.37 (1.21 - 1.56)	1.37 (1.20 - 1.56)	1.39 (1.22 - 1.59)
Uterine artery RI (per 0.2 MoM)			0.70 (0.61 - 0.81)	0.69 (0.60 - 0.80)	0.71 (0.62 - 0.82)
Candidate biomarkers at 19-21 weeks					
Random glucose (per 0.2 log)				1.20 (1.06 - 1.36)	1.20 (1.05 - 1.36)
Additional biomarkers at 14-16 weeks					
VEGFR1 (log)					1.66 (1.39 - 1.99)
NGAL (log)					0.63 (0.48 - 0.81)

Abbreviation: AC - abdominal circumference, HC - head circumference, MoM - multiple of median, NGAL - neutrophil gelatinase-associated lipocalin, RI - resistance index, VEGFR1 - vascular endothelial growth factor receptor type 1.

* Model 1 - clinical factors at 14-16 weeks; Model 2 - clinical factors and candidate biomarkers at 14-16 weeks; Model 3 - clinical factors and ultrasound at 14-16 and 19-21 weeks; Model 4 - clinical factors, ultrasound and candidate biomarkers at 14-16 and 19-21 weeks; Model 5 - full model including additional list of biomarkers.