

1 **S2 Table. List of biomarkers and the assay method.**

Biomarker	Assay method	Included in analysis	Convert to MoM
Candidate biomarkers at 14-16 weeks			
Adiponectin	Luminex Competitive	Yes	
Cholesterol (total)	Enzymatic Colorimetric	Yes	Yes
Glucose (random)	Electrochemical sensor	Yes	
HDL-cholesterol	Enzymatic Colorimetric	Yes	
Insulin	Luminex Sandwich	Yes	
LDL-cholesterol	Calculated (Friedewald Formula)	Yes	Yes
Placental growth hormone (PIGH)	Luminex Sandwich	Exclude LOD *	Yes
Triglycerides	Enzymatic Colorimetric	Yes	Yes
Candidate biomarker at 19-21 weeks			
Glucose (random)	Electrochemical sensor	Yes	
Additional biomarkers at 14-16 weeks			
Adam-9 (Disintegrin and metalloproteinase domain-containing protein 9)	Luminex Sandwich	Exclude LOD *	
Angiogenin	Luminex Competitive	Yes	
Arginase-1	Luminex Sandwich	Yes	
Arginase-2	Luminex Sandwich	Yes	
Atrial natriuretic peptide (ANP)-propeptide	Luminex Sandwich	Yes	
Big Endothelin-1	Luminex Sandwich	Exclude LOD *	
Brain natriuretic peptide (BNP)	Luminex Sandwich	Yes	Yes
C-Met	Luminex Sandwich	Yes	
C-reactive protein (CRP)	Luminex Competitive	Yes	
C-X-C motif chemokine 10 (CXCL 10)	Luminex Sandwich	Yes	
Carboxypeptidase A4 (CPA-4) precursor	Luminex Sandwich	Yes	
Caspase-3	Luminex Sandwich	Yes	
Chemokine (C-C motif) ligand 23 (CCL23)	Luminex Sandwich	Yes	
Cystatin C	ELISA Competitive	Yes	
Elafin	Luminex Competitive	Yes	
Endoglin	ELISA Sandwich	Yes	

Endothelial cell-selective adhesion molecule (ESAM-1)	Luminex Sandwich	Yes	
Ephrin-receptor-2	Luminex Sandwich	Exclude LOD *	
Factor inhibiting hypoxia inducible factor 1 α (FIH)	Luminex Sandwich	Yes	
Fas cell surface death receptor (FAS)	Luminex Sandwich	Yes	Yes
Fas ligand (Fas L)-soluble	Luminex Sandwich	Exclude LOD *	
Intercellular adhesion molecule-1 (ICAM-1)	Luminex Competitive	Yes	
Interleukin 1 receptor antagonist (IL-1ra)	Luminex Sandwich	Yes	
Kunitz type protease inhibitor 2 (HAI-2)	Luminex Sandwich	Yes	
Leptin	Luminex Sandwich	Yes	
Leptin receptor	Luminex Sandwich	Yes	
Macrophage migration inhibitory factor (MIF)	Luminex Sandwich	Yes	
Matrix metalloproteinase-9 (MMP-9)	Luminex Sandwich	Yes	
Nephrin	Luminex Sandwich	Yes	Yes
Neutrophil gelatinase-associated lipocalin (NGAL)	ELISA Sandwich	Yes	
Pentraxin-3	Luminex Sandwich	Exclude LOD *	
Periostin	Luminex Sandwich	Yes	
Placental growth factor (PIGF)	Luminex Sandwich	Yes	Yes
Plasminogen activator inhibitor 1 (PAI-1)	Luminex Sandwich	Exclude LOD *	
Plasminogen activator inhibitor 2 (PAI-2)	Luminex Sandwich	Yes	Yes
Podocalyxin	Luminex Sandwich	Exclude LOD *	
Pregnancy associated plasma protein A (PAPP-A)	Luminex Sandwich	Yes	Yes
Procalcitonin (PCT)	Luminex Sandwich	Exclude LOD *	
ST2	Luminex Sandwich	Yes	
TIMP metalloproteinase inhibitor 1 (TIMP-1)	Luminex Competitive	Yes	
Transforming growth factor (TGF) β receptor 2	Luminex Sandwich	Yes	
Tumour necrosis factor receptor 1a (TNFR1a)	Luminex Sandwich	Yes	
Vascular endothelial growth factor C (VEGF-C)	Luminex Sandwich	Yes	

Vascular endothelial growth factor receptor-1 (VEGFR1)	Luminex Sandwich	Yes
Visfatin	Luminex Sandwich	Exclude LOD *
WAP four disulfide core domain protein 2 (HE4)	Luminex Sandwich	Yes

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- 2 * Excluded from analysis as the majority of measurements were below the limit of
- 3 detection (LOD) of the assay.