

Table 2

Sample	Timing	Association	Reference
Small for gestational age/fetal growth restriction			
Maternal serum	11-13 wks	Not associated	Sifakis, 2012 (75)
Maternal serum, SGA	20 wks	Not associated	Liao, 2016 (37)
Maternal serum, FGR	28-30 & 36-38 wks	Decreased	McIntyre, 2000 (36)
Maternal plasma, FGR	33 -39 wks amenorrhea	Decreased	Mirlesse, 1993 (73)
Placental and peripheral blood mRNA	28 & 36 wks (PB); term (placenta)	Increased	Whitehead, 2013 (40)
Maternal serum, FGR	Various	Decreased	Caufriez 1993 (47)
Placental RNA	Term	Decreased <i>GH2</i> , transcript variant 1	Männik, 2010 (77)
Placental RNA, SGA	Term	Decreased	Barrio 2009 (76)
Maternal serum, FGR		Decreased	Schiesl 2007 (52)
Large for gestational age			
Maternal serum	20 wks	Increased	Liao, 2016 (37)
Placental RNA	Term	Not associated	Männik, 2010 (77)
Gestational diabetes mellitus			
Maternal serum	20 wks	Not associated	Liao, 2017 (103)
Maternal serum (GDM +LGA)	20 wks	Increased in GDM + LGA group vs. GDM alone	Liao, 2017 (103)
Maternal plasma	24-29 wks	Not associated	Verhaeghe, 2002 (23)
Placental RNA	Term	Not associated	Männik, 2012 (104)
Type 1 diabetes			
Maternal serum, cord blood	36 wks (MS); term (CB)	Not associated	Higgins, 2012 (61)
Maternal serum (T1D +LGA)	8, 14, 21, 27 & 33 wks	Small decrease at 8 wks in T1D + LGA group vs. T1D alone, otherwise not associated	Ringholm, 2015 (105)
Maternal serum (free GH-V)	28-30 & 36-38 wks	Increased	McIntyre, 2000 (36)
Type 2 diabetes			
Maternal serum (free GH-V)	28-30 & 36-38 wks	Decreased	McIntyre, 2000 (36)
Pre-eclampsia			
Maternal serum	11-13 wks	Not associated	Sifakis, 2011 (109)
Maternal serum	20 wks	Not associated	Liao, 2017 (110)
Maternal serum and amniotic fluid (PE + FGR)	16- 22 wks	Increased in PE + FGR vs. normal pregnancies	Papadopoulou, 2006 (42)
Maternal serum	20-42 wks	Increased in PE; decreased in PE+ SGA babies vs. PE alone	Mittal, 2007 (60)
Placental RNA	Term	Decreased <i>GH2</i> , transcript variant 1 and 2	Männik, 2012 (104)
Maternal serum		Decreased	Schiesl 2007 (52)
Gestational trophoblastic disease			
Tissue and sera samples	n/a	n/a	Hübener, 2017 (120)
Ectopic pregnancy			
Tissue and sera samples	n/a	n/a	Hübener, 2015 (119)
Chromosome trisomies/ Down syndrome			
Maternal serum, DS	8-14 weeks	Decreased	Christiansen, 2009 (115)
Maternal serum, trisomy 18 & 21	11-13 wks	Decreased	Sifakis, 2010 (116)
Maternal serum, DS	16-23 wks	Increased	Papadopoulou, 2008 (112)
Amniotic fluid, DS	16-23 wks	Increased	Sifakis, 2009 (113)
Maternal serum, trisomy 18 & 21	Second trimester	Increased	Moghadam, 1998 (111)
Maternal serum, DS	Second trimester	Increased	Baviera, 2004 (114)
Placental RNA, DS	12–35 wks	Decreased	Frendo, 2000 (117)