

Table 1. Demographic and clinical findings.

| | AGA n=50 | LGA n=50 | SGA n=49 | P value |
|-------------------------------------|---------------------------|---------------------------|---------------------------|----------------|
| Maternal characteristics | | | | |
| Maternal age (yrs) | 29.1 (0.8) | 30.5 (0.6) | 29.8 (0.7) | ns |
| Socioeconomic index* | 47 (2) | 50 (2) | 48 (2) | ns |
| Caucasian, n (%) | 38 (76.0) | 38 (76.0) | 38 (77.6) | ns |
| Smoked at 15 wks, n (%) | 5 (10.0) | 1 (2.0) | 5 (10.2) | ns |
| Any alcohol intake at 15 wks, n (%) | 2 (4.0) | 1 (2.0) | 5 (10.2) | ns |
| BMI at 15 wks (kg/m ²) | 25.1 (0.6) | 24.8 (0.6) | 23.9 (0.6) | ns |
| Umbilical artery RI at 20 wks | 0.72 (0.01) | 0.72 (0.01) | 0.74 (0.01) | ns |
| Mean uterine artery RI at 20 wks | 0.56 (0.01) | 0.51 (0.01) | 0.61 (0.01) | < 0.0001 |
| Gestational age at delivery (wks) | 40.1 (0.2) | 39.5 (0.2) | 39.2 (0.4) | 0.0373 |
| Fetal characteristics | | | | |
| Birth weight (g) | 3535 (46) | 4279 (43) | 2518 (75) | < 0.0001 |
| Placental weight (g)** | 640 (18) | 825 (24) | 483 (18) | < 0.0001 |
| Male, n (%) | 35 (70.0) | 31(62.0) | 31 (63.3) | ns |

Results expressed as mean (SEM) if not indicated; ns, not significant; BMI: body mass index

* Socioeconomic index calculated using the New Zealand Socioeconomic Index guide (1996).

** Missing data numbers for placental weight (AGA, n = 12; LGA. n = 9; SGA, n = 9)

Table 2. Univariate linear regression models with birth weight or customised birth weight centile used as the dependent variable. Values of GH-V, IGF-2, IGFBP-1 and IGFBP-3 here are log-transformed.

| Parameter | r | r² | 95% CI | t | P value |
|---------------------------------|----------|----------------------|---------------|----------|----------------|
| Birth weight | | | | | |
| GH-V | 0.176 | 0.027 | 12.61; 1063 | 2.024 | 0.045 |
| IGF-1 | 0.124 | 0.015 | -0.52; 3.66 | 1.489 | 0.139 |
| IGF-2 | 0.018 | 0 | -2167; 2692 | 0.214 | 0.831 |
| IGFBP-1 | -0.257 | 0.066 | -1327; -305.6 | -3.16 | 0.002 |
| IGFBP-3 | 0.013 | 0 | -603.4; 705.7 | 0.154 | 0.877 |
| Customised birth weight centile | | | | | |
| GH-V | 0.163 | 0.027 | 0.46; 57.49 | 2.008 | 0.046 |
| IGF-1 | 0.129 | 0.017 | -0.23; 0.20 | 1.566 | 0.120 |
| IGF-2 | 0.058 | 0.003 | -84.46; 177.7 | 0.703 | 0.483 |
| IGFBP-1 | -0.210 | 0.044 | -64.65; -8.42 | -2.569 | 0.011 |
| IGFBP-3 | 0.017 | 0 | -31.63; 39.08 | 0.208 | 0.835 |

The 95% confidence intervals (CI) are given.