**Table S1:** Multiple regression analysis of the influence of maternal and fetal characteristics on non-invasive fetal electrocardiography (NIFECG) E240 and computerised cardiotocography (cCTG) signal loss, using different computation methods. Dependent variable was set as signal loss (%) from each device, whilst maternal and fetal characteristics were set as independent variables.

|  |  |  |
| --- | --- | --- |
|  | **NIFECG E240 signal loss** | **cCTG signal loss** |
| **Maternal/fetal characteristics** | ***B* co-efficient** | ***SE*** | **p-value** | **95% CI** | ***B* co-efficient** | ***SE*** | **p-value** | **95% CI** |
| *Intercept* | 169.30 | 19.81 | <0.001 | 130.30 to 208.30 | 3.69 | 4.69 | 0.433 | -5.55 to 12.93 |
| **BMI** | 0.11 | 0.28 | 0.693 | -0.44 to 0.65 | 0.30 | 0.07 | **<0.001** | 0.17 to 0.43 |
| **Ethnicity** |  |  |
|  White | *Reference* | *Reference* |
|  Black | 5.59 | 5.40 | 0.302 | -5.04 to 16.22 | -0.52 | 1.28 | 0.684 | -3.04 to 2.00 |
|  Asian | 1.64 | 4.59 | 0.721 | -7.39 to 10.67 | -0.17 | 1.09 | 0.874 | -2.31 to 1.97 |
|  Mixed/other | -5.61 | 6.93 | 0.419 | -19.25 to 8.04 | -1.00 | 1.64 | 0.544 | -4.23 to 2.23 |
| **Gestational age** | -3.65 | 0.49 | **<0.001** | -4.62 to -2.67 | -0.28 | 0.12 | **0.017** | -0.51 to -0.05 |
| **Anterior placenta** | 6.36  | 3.36 | 0.059 | -0.25 to 12.97 | 0.95 | 0.80 | 0.233 | -0.62 to 2.52 |
| **EFW centile** | -0.13 | 0.07 | 0.064 | -0.27 to 0.01 | 0.01 | 0.02 | 0.462 | -0.02 to 0.05 |
| **Fetal movement count** | 0.02 | 0.05 | 0.634 | -0.07 to 0.11 | 0.03 | 0.01 | **0.014** | 0.01 to 0.05 |

BMI, body mass index; EFW, estimated fetal weight; E240, 240 per minute epochs (0.25 seconds).