Appendix

Appendix figure 1 shows probability plots of placental growth factor in Down syndrome and unaffected pregnancies. Appendix Table 1 provides the statistical parameters (means, standard deviations, correlation coefficients and truncation limits) of PlGF in Down syndrome and unaffected –pregnancies.

Appendix figure 1: Probability plot for (a) first trimester and (b) second trimester PlGF in Down syndrome (squares) and unaffected (circles) pregnancies.

a) First trimester



Unaffected

Down syndrome

b) Second trimester



Unaffected

Down syndrome

**Appendix Table 1: Screening marker parameters (means, standard deviations, correlation coefficients and truncation limits of log MoM values) for placental growth factor (PlGF) in Down syndrome and unaffected pregnancies**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Down syndrome | |  | Unaffected | |
| Median |  |  |  |  |  |
| First trimester1 |  |  |  |  |  |
| 11 completed weeks | -0.0714 | |  | 0 | |
| 12 completed weeks | -0.1439 | |  | 0 | |
| 13 completed weeks | -0.2164 | |  | 0 | |
| Second trimester2 |  | |  |  |  |
| 14 completed weeks | -0.1591 | |  | 0 | |
| 15 completed weeks | -0.1143 | |  | 0 | |
| 16 completed weeks | -0.0695 | |  | 0 | |
|  |  |  |  |  |  |
| Standard deviation |  |  |  |  |  |
| First trimester | 0.1705 | |  | 0.1556 | |
| Second trimester | 0.2243 | |  | 0.1786 | |
|  |  |  |  |  |  |
| Truncation limits (MoM) |  |  |  |  |  |
| First trimester | 0.40 to 2.50 | | | | |
| Second trimester3 |  |  |  |  |  |
| 14 completed weeks | 0. 40 to 1.89 | | | | |
| 15 completed weeks | 0. 40 to 1.58 | | | | |
| 16 completed weeks | 0. 40 to 1.32 | | | | |
|  |  |  |  |  |  |
| Correlation (with) | First trimester | Second trimester |  | First trimester | Second trimester |
| First trimester |  |  |  |  |  |
| NT | 0.0134 | 0.0327 |  | -0.0093 | -0.0623 |
| Free β-hCG | -0.0651 | - |  | 0.1526 | - |
| PAPP-A | 0.0424 | 0.0599 |  | 0.2860 | 0.3223 |
| PlGF | 1 | 0.4712 |  | 1 | 0.4643 |
|  |  |  |  |  |  |
| Second trimester |  |  |  |  |  |
| AFP | -0.2692 | 0.1973 |  | -0.1477 | 0.0204 |
| uE3 | -0.0056 | 0.2077 |  | -0.0547 | 0.1509 |
| Free β-hCG | -0.3058 | -0.2110 |  | -0.0854 | 0.0724 |
| Inhibin-A | -0.0053 | -0.2581 |  | -0.1509 | -0.0359 |
| PlGF | 0.4712 | 1 |  | 0.4643 | 1 |

1Median MoM in Down syndrome pregnancies = 100.7573536-0.0103592×gestational age in days

2Median MoM in Down syndrome pregnancies = 10-0.805727+0.0064023×gestational age in days

3Upper truncation limit set at the point of risk reversal