**Supplementary table 1**

Clinical Information about the preterm samples

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| **Sample Code** | **Sex** | **Gestational Age** | **Birth weight (g)** | **Birth weight Percentile** | **Indication for Delivery** | **Doses of Betamethasone** |
| Preterm\_23\_3 | Male | 23 weeks 3 days | 640 | 50-75% | Termination of pregnancy for craniosynostosis, no other congenital anomalies | 0 |
| Preterm\_25\_5 | Female | 25 weeks 5 days | 1140 | 95% | Induced for severe preclampsia, failed control of hypertension with Magnesium Sulfate | 2 |
| Preterm\_26\_B\_2 | Male | 26 weeks 2 days | 1040 | 50-75% | Spontaneous, failed tocolysis with Nifedipine. Twin gestation. | 1 |
| Preterm\_27\_4 | Female | 27 weeks 4 days | 1400 | 95% | Spontaneous, failed tocolysis with Nifedipine. | 2 |