

Database requirements to derive country / population specific coefficients for GROW*

* Gestation Related Optimal Weight - software for fetal growth chart and birthweight centile calculator

NB: critical data items are in bold

Preferred size of database n > 10,000, though 5000 has been used successfully, and even 2000+ is sufficient if the population is not too heterogenous

Data Item	Comment/description
Birthweight	In grams
Gestational age at birth	Recorded in days, i.e. not in rounded weeks
LMP	Preferably based on dating scans. If a LMP / scan correction protocol has been used, please describe
EDD	If available
Delivery date	Used as a double-check on gestation
Maternal weight	In kgs; as recorded at booking / in early pregnancy
Maternal height	In cms
Gender of neonate	Male/female
Parity	As recorded at booking (i.e. not including current pregnancy)
Maternal age	In years
Ethnicity	As reported by the mother
Also: country of birth	If available, useful to know in conjunction with Ethnicity
Pregnancy outcome	Alive or stillborn (LB/SB)
Singleton or multiple	Singleton or multiple
Congenital anomaly	Yes/no

Plus include pathological factors if known, which will allow the final coefficients to be better 'optimised'

Smoking	Yes/no; preferably, no. of cigarettes/day
Pre-existing diabetes	Yes/no
Gestational diabetes	Yes/no
Pre-existing hypertension	Yes/no
Pregnancy-induced hypertension	Yes/no
Any other recorded pathological factor	E.g. social deprivation, asthma, anaemia, substance misuse, history of SGA, SB, miscarriage or preterm delivery