

Annex 1 – Supplementary material

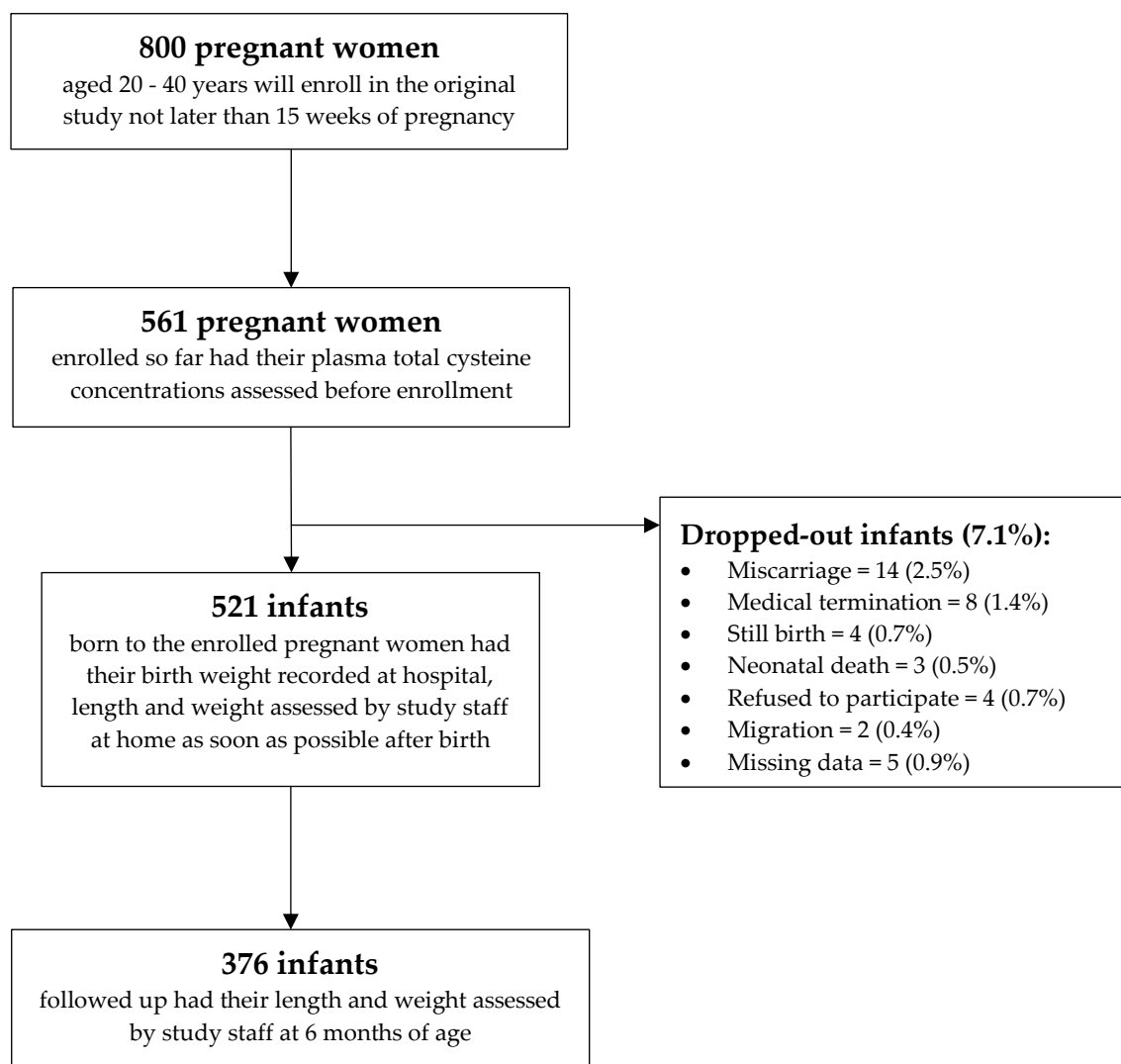


Figure S1: Study participant flow chart

Table S1: Multivariate linear regression models for anthropometric measurements and maternal plasma total cysteine (tCys) concentration (in $\mu\text{mol/L}$) categories - low (< 25th percentile), reference (25th - 75th percentile) and high (> 75th percentile)

	n	Crude tCys		Adjusted tCys	
		Estimate (95% CI)		Estimate (95% CI)	
		Low	High	Low	High
Birth weight ¹ , <i>grams</i>	521	-7.7 (-98.2, 82.8)	-66.7 (-156.9, 23.5)	-	-
Boys		-	-	26.2 (-69.2, 121.6)	-105.6 (-204.7, -6.4)**
Girls		-	-	-49.4 (-146.7, 47.8)	-11.4 (-111.9, 89.1)
LAZ score at birth	521	0.15 (-0.07, 0.38)	-0.17 (-0.39, 0.06)	0.15 (-0.07, 0.38)	-0.17 (-0.39, 0.06)
WLZ score at birth ²	503	-0.20 (-0.44, 0.03)*	-0.04 (-0.28, 0.20)	-0.23 (-0.47, 0.01)*	-0.07 (-0.31, 0.17)
LAZ score at 6 months ³	376	-0.09 (-0.31, 0.14)	-0.18 (-0.41, 0.04)	-0.17 (-0.40, 0.07)	-0.15 (-0.38, 0.07)
WLZ score at 6 months ⁴	376	0.002 (-0.26, 0.26)	0.10 (-0.15, 0.36)	.04 (-0.22, 0.30)	0.07 (-0.19, 0.33)

¹ Adjusted for maternal BMI, infant's gender and interaction between tCys and infant's gender

² Adjusted for maternal BMI, education and parity

³ Adjusted for maternal BMI, parity, WAMI, plasma cobalamin and folate concentrations (n = 371 for adjusted tCys because of missing WAMI-index values)

⁴ Adjusted for maternal BMI, parity and plasma cobalamin concentration

* p-value < 0.10

** p-value < 0.05

BMI: Body mass index; CI: Confidence interval; LAZ score: Length-for-age Z-score; WLZ score: Weight-for-length Z-score

Table S2: Multivariate linear regression models for anthropometric measurements among different gender and maternal plasma total cysteine (tCys) concentration (in $\mu\text{mol/L}$)

	n	Crude tCys Estimate (95% CI)	Adjusted tCys Estimate (95% CI)
Boys			
Birth weight ¹ , <i>grams</i>	279	-2.294 (-4.283, -0.304)**	-2.567 (-4.565, -0.569)**
LAZ score at birth	279	-0.008 (-0.013, -0.003)***	-0.008 (-0.013, -0.003)***
WLZ score at birth ²	269	0.001 (-0.005, 0.006)	-0.0001 (-0.005, 0.005)
LAZ score at 6 months ³	212	-0.005 (-0.010, 0.0003)*	-0.002 (-0.007, 0.003)
WLZ score at 6 months ⁴	212	0.002 (-0.004, 0.008)	0.001 (-0.005, 0.007)
Girls			
Birth weight ¹ , <i>grams</i>	242	0.822 (-1.435, 3.079)	0.455 (-1.788, 2.698)
LAZ score at birth	242	-0.002 (-0.007, 0.004)	-0.002 (-0.007, 0.004)
WLZ score at birth ²	234	0.006 (-0.001, 0.012)*	0.006 (-0.0001, 0.013)*
LAZ score at 6 months ³	164	0.001 (-0.005, 0.007)	0.0004 (-0.006, 0.006)
WLZ score at 6 months ⁴	164	0.003 (-0.004, 0.009)	0.001 (-0.005, 0.008)

¹ Adjusted for maternal BMI
² Adjusted for maternal BMI, education and parity
³ Adjusted for maternal BMI, parity, WAMI, plasma cobalamin and folate concentrations (n = 209 for boys & 162 for girls for adjusted tCys because of missing WAMI-index values)
⁴ Adjusted for maternal BMI, parity and plasma cobalamin concentration
* p-value < 0.10
** p-value < 0.05
*** p-value < 0.01
BMI: Body mass index; CI: Confidence interval; LAZ score: Length-for-age Z-score; WLZ score: Weight-for-length Z-score