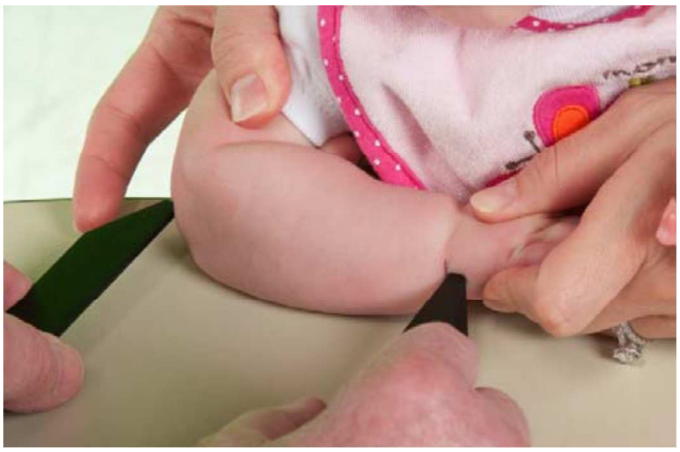
Supplemental Table 1 Number and percent of participants by study center

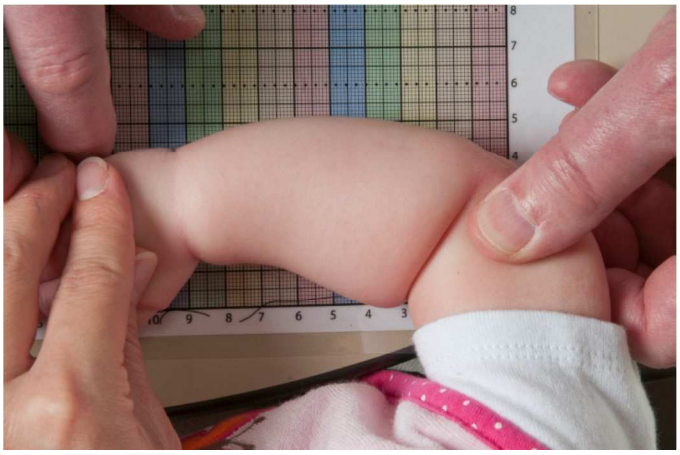
Study Center	*n*	%
Johns Hopkins University	89	6.04
Michigan State University	226	15.3
Saint Louis University	23	1.56
University of California, Irvine	44	2.99
University of California, Los Angeles	40	2.72
University of Minnesota	51	3.46
University of Texas at Austin/ Baylor College of Medicine	285	19.4
University of Texas Health Science Center at San Antonio	715	48.5

Supplemental Figure 1 Ulnar length measured by caliper (A), forearm width by grid (B), and forearm circumference by an insertion ShorrTape© (C).

A



B



C

Supplemental Table 2 Child anthropometric measurements by age, sex, and race/ethnicity in the total sample[*]

	n	Weight, kg	Length or height, cm	Ulnar length, cm	Forearm width, cm	Forearm circumference, cm
Total	1473	11.6 (0.1)	81.6 (0.5)	12.8 (0.1)	5.3 (0.02)	15.0 (0.1)
Age, year						
<1	572	7.0 (0.2)[a, †]	64.4 (0.4)[a]	10.1 (0.08)[a]	4.9 (0.04)[a]	13.6 (0.10)[a]
1-2.9	299	10.7 (0.2)[b]	79.2 (0.5)[b]	12.4 (0.09)[b]	5.1 (0.04)[b]	15.1 (0.11)[b]
2-2.9	190	14.0 (0.2)[c]	91.5 (0.6)[c]	14.2 (0.11)[c]	5.4 (0.05)[c]	16.1 (0.13)[c]
3-5.9	412	17.8 (0.2)[d]	104.6 (0.4)[d]	16.3 (0.08)[d]	5.6 (0.03)[d]	16.8 (0.09)[d]
Sex						
Boys	764	12.0 (0.1)[a]	83.1 (0.3)[a]	13.0 (0.06)[a]	5.3 (0.03)[a]	15.4 (0.08)[a]
Girls	709	11.5 (0.1)[b]	81.9 (0.3)[b]	12.7 (0.06)[b]	5.2 (0.03)[b]	15.0 (0.08)[b]
Race/ethnicity						
Non-Hispanic White	296	12.0 (0.2)[a]	82.5 (0.4)[b]	12.7 (0.09)[a]	5.3 (0.05)	15.3 (0.1)[a]
Hispanic	662	11.9 (0.2)[a]	81.9 (0.4)[a]	12.7 (0.09)[a]	5.4 (0.05)	15.3 (0.1)[a]
Non-Hispanic Black	384	12.2 (0.2)[a]	83.6 (0.4)[b]	13.3 (0.08)[b]	5.3 (0.04)	15.4 (0.1)[a]
Other	131	10.7 (0.3)[b]	81.0 (0.6)[a]	12.5 (0.13)[a]	5.2 (0.07)	14.8 (0.2)[b]

[*]Values are presented as means (standard errors). Group comparisons of anthropometrics were analyzed using analysis of variance test by age group with study center as a random effect; student's *t* test by sex with study center as a random effect, adjusting for age; and analysis of covariance by race/ethnicity with study center as a random effect, adjusting for age.

[†]Values with different superscript letters in a column are significantly different within the particular stratum (age, sex, or race/ethnicity) with *P* values <0.05, after Bonferroni-Holm adjustment for pairwise comparisons. For instance, values with superscript letters [a,b] and [a] were not significantly different, whereas values with [a] and [b] were significantly different.

Supplemental Table 3 Intra- and inter-observer reliability of anthropometric measurements in a sub-sample of infants/children (n = 124)[1]

	Intra-observer reliability			Inter-observer reliability		
	n^*	CV (%)	ICC (95% CI)	n^*	CV (%)	ICC (95% CI)
Weight (kg)	119	0.08	1.000 (1.000, 1.000)	119	0.24	1.000 (1.000, 1.000)
Recumbent length (cm)	58	0.20	1.000 (0.999, 1.000)	56	0.53	0.999 (0.998, 0.999)
Standing height (cm)	66	0.12	0.999 (0.999, 1.000)	64	0.29	0.999 (0.998, 0.999)
Ulna length (cm)	119	0.62	0.999 (0.998, 0.999)	117	1.48	0.996 (0.994, 0.997)
Forearm width (cm)	104	1.96	0.952 (0.930, 0.967)	100	2.16	0.879 (0.819, 0.919)
Forearm circumference (cm)	115	0.36	0.998 (0.998, 0.999)	114	0.43	0.990 (0.985, 0.993)

CV indicates coefficient of variance; ICC, intra-class correlation coefficient, calculated using a one-way random model and absolute agreement type.

[*] n for length and n for height were both <124 because recumbent length and standing height were measured in infants and children aged 0-1.9 and 2-5.9 years, respectively. For other anthropometric measurements, n may be <124 due to missing values.