

The standard analysis and reporting for the WHO Global Database differs as follows depending on whether the NCHS/WHO reference or the WHO standards are used:

a) For individual z-scores

NCHS/WHO reference-based results			WHO standards-based results		
Recommended measuring technique: Length measured up to 24 months (or 85 cm if age unknown); height measured from 24 months and onwards (or 85 cm and higher if age unknown).			Recommended measuring technique: Length measured up to 24 months (or 87 cm if age unknown); height measured from 24 months and onwards (or 87 cm and higher if age unknown).		
Recommended length-height conversion factor: ± 1.0 cm (e.g. height = length - 1.0 cm). However, no consistent application of length-height conversion takes place although the raw data is usually collected using the standard measuring technique (i.e. <24 months recumbent length).			Recommended length-height conversion factor: ± 0.7 cm (e.g. height = length - 0.7 cm) which is automatically applied by the Anthro 2005 software if needed using 24 months or 87 cm as cut-offs (see software manual).		
SD flag limits used to identify implausible values:			SD flag limits used to identify implausible values:		
Indice*	Lower	Upper	Indice*	Lower	Upper
WHZ	-4	+6	WHZ	-5	+5
HAZ	-6	+6	HAZ	-6	+6
WAZ	-6	+6	WAZ	-6	+5
			BAZ	-5	+5
			Additional data cleaning implemented by WHO: Weight > 36 kg or < 0.9 kg set to missing Height > 138 cm or < 38 cm set to missing		
Oedema cases do not affect the calculation of individual length/height-for-age z-scores but are excluded from the individual z-score calculations for the two weight-based indicators: weight-for-length/height and weight-for-age.			Oedema cases do not affect the calculation of length/height-for-age z-scores but are excluded from the individual z-score calculations for the three weight-based indicators: weight-for-length/height, weight-for-age and BMI-for-age.		

* Indices: WHZ = weight-for-length/height z-score; HAZ = length/height-for-age z-score; WAZ = weight-for-age z-score; BAZ = Body Mass Index (BMI)-for-age z-score

b) For prevalence estimates

NCHS/WHO reference-based results	WHO standards-based results
Include only records with valid z-scores for all three indicators, thus the sample size is the same for all three indicators.	Include all valid z-scores for each indicator; thus the sample size will likely vary by indicator.
Oedema cases do not affect the calculation of length/height-for-age prevalences. For the two weight-based indicator z-scores: - If age is known oedema cases are counted in calculating prevalence below -2 and below -3 SD of the in related age groups and the total prevalence. - If age is unknown, oedema cases are counted only in the <i>Total</i> (e.g. 0-59 months) prevalence below -2 and below -3 SD. - Oedema cases are excluded when calculating	Oedema cases do not affect the calculation of length/height-for-age prevalences. For the three weight-based indicator z-scores: - If age is known an oedema case is counted in calculating prevalence below -2 and below -3 SD in related age groups. - If age is unknown, an oedema case is counted only in the <i>Total</i> (e.g. 0-60 months) prevalence below -2 and below -3 SD. - Oedema cases are excluded when calculating means and SDs of z-scores since no individual z-

NCHS/WHO reference-based results	WHO standards-based results
means and SDs of z-scores since no individual z-scores could be derived.	scores could be derived.

3) Comparing the reporting format

NCHS/WHO reference-based results	WHO standards-based results
Indicators: Weight-for-height, height-for-age and weight-for-age	Indicators: Weight-for-age, height-for-age, weight-for-height and BMI-for-age
The <i>Total</i> sample size reported for all indicators is the same as this analysis uses only records with valid z-scores for all three anthropometric indicators.	The <i>Total</i> sample size reported is based on weight-for-age. The sample sizes for the other indicators, however, may vary depending on implausible z-scores encountered.
Oedema cases are not reported separately.	The number of oedema cases included in the analysis are listed below the output tables of WHO Anthro 2005 PC <i>Nutritional survey</i> module. They can also be counted from the macro outputs.