## **Anthropometric Guidance**

**Three Components of Accurate Measuring:** 

1) Standardized Technique<sup>1</sup> 2) Accurate & Calibrated Equipment<sup>2</sup> 3) Trained Measurers

## Tips in preparing to collect anthropometric data:

- Hair ornaments, buns, braids, etc. must be removed to obtain an accurate measurement.
- Respect the participant's privacy: where measurements are taken, when removing clothing/donning gowns, describing the process and interpreting numbers.
- Remove clothes down to diaper (clean/dry) for infants less than/equal to one year of age, and heavy clothing/shoes for women and children.
- Return the scale to zero after each measurement.
- When two measurement values do not fall within the range listed in the table below, the participant should be re-positioned and measured a 3<sup>rd</sup> time. The average of the two closest measurements should be recorded.

Recumbent Length	Standing Height/Stature	Weight
Infants & Children: < 24 months old	Women & Children: ≥ 24 months (able to stand without assistance)	Women, Infants, Children
<b>Equipment to Use:</b> Length board with fixed headpiece and moveable foot piece.	Equipment to Use: A calibrated vertical stadiometer with a right-angle, fixed headpiece.  Balance beam scales should not be used to collect height; newer models with the combination stadiometer & digital scale are designed for accuracy of both height & weight	Equipment to Use: Quality beam balance or electronic scale for older children & adults. For infants/toddlers not able to stand, a quality beam balance or electronic scale with a tray large enough to safely support.
<ul> <li>Position: Lying on their back, with two measurers:</li> <li>Child's head should be centered, touching the top of the length board.</li> <li>Parent/caregiver should help to steady the infant/child's head.</li> <li>Lying straight and flat, eyes looking straight up.</li> <li>Ensure both legs are fully extended with feet flat against the foot piece when viewing measurement.</li> </ul>	with heels, buttocks, shoulders and head touching a flat, upright surface	Position: Sitting or standing on the center of the scale tray or platform.
Measure to the nearest: 0.1 cm or 1/8 inch. Reposition and re-measure, if necessary. Measurements should agree to 1 cm or 1/4 inch. Record measurement.	Measure to the nearest: 0.1 cm or 1/8 inch Reposition and re-measure if necessary. Measurements should agree within 1 cm or ¼ inch. Record measurement.	Measure to the nearest: 0.03 kg or 1 oz.  Reposition and re-measure, if necessary.  Measurements should agree within 0.1 kg or 1/4 lb.  Record measurement.  ■ Active/distressed child  ■ Weigh parent/caregiver reset scale to zero.  ■ Weigh parent/caregiver and child together.  ■ Subtract parent/caregiver's weight.

<sup>&</sup>lt;sup>1</sup> CDC Guidelines should be utilized when collecting and interpreting measurements, the following links provide additional guidance: <a href="https://bit.ly/31PzihD">https://bit.ly/31PzihD</a> and <a href="https://bit.ly/31PzihD">https://bit.ly/31PzihD<

- Scale distributors: Tanita, Detecto, Seca, Perspective Enterprises
- Length Board and Stadiometer distributors: Perspective Enterprises, Measurement Concepts
- Test or Calibration Weights: Perspective Enterprises

<sup>&</sup>lt;sup>2</sup> There are many sources of quality, medical-grade, reliable equipment- information below is intended only as a guide and is not an endorsement of specific products, services or manufacturers: