Table 3: Anthropometric measures: equipment and protocols

	Adult	Infant	Acceptable variance
	Equipment: Seca tape measure 201	Equipment: Retractable tape	1. Measure to the
Head ciirc.		measures from Pfizer Nutrition. Fer from the bony ridge located above ly around the widest part of the head.	nearest 0.1 cm.  2. Repeat measures until two measurements are
Height/Length	Equipment: Marsden Height measurement Manufactured by Charder Electronic Company Ltd.  1. Measure without shoes, and take down any hairstyle which may interfere with the headboard making contact with the vertex of the head.  2. Subject stands on the base plate with weight distributed evenly on both feet, heels together and head positioned looking straight forwards. Arms hang freely at sides.  3. Subject's body should not be in contact with the stadiometer upright so as not to deflect it from vertical.  4. Subject stretches to fullest height. 5. Bring the headboard down to make contact with the vertex of the subject's head.	Equipment: Baby length measure map Seca 210 1821009.  1. The infant lies in a supine position on a recumbent measuring mat. The crown of the head must touch the stationary, vertical headboard.  2. Align infant head so the line of vision is perpendicular to the plane of the measuring surface.  3. The shoulders and buttocks must be flat against the measuring surface, with the shoulders and hips aligned at right angles to the long axis of the body.  4. The legs must be extended at the hips and knees and lie flat against the surface and the arms rest against the sides of the trunk.  5. Ensure that the legs remain flat on the surface and bring the movable board against the heels to measure.	within 0.3 cm.  1. Record the measurement to the nearest 0.1cm.  2. Repeat measures until two measurements are within 0.5cm.
Weight	<ul> <li>Equipment: Tanita personal scales HD-316 (Manufactured by Wedderburn) or Salter Bathroom scales Model 9175.</li> <li>1. Ensure subject is wearing only light clothing.</li> <li>2. Place scales on a hard surface (not carpet).</li> <li>3. Activate the scales and 'zero'.</li> <li>4. Subject stands on the centre of the scales, with the body weight evenly distributed between both feet.</li> <li>5. Subject remains still until the scales have stabilised on a reading.</li> </ul>	Equipment: Soehnle 8310 infant scales.  1. Place scales on a firm surface (not carpet).  2. Zero the scales and then weigh infants naked OR  3. Place a clean nappy on the scales, zero the scales and remove the nappy, then weigh the infant while they are wearing a clean nappy of the same type that was used when the scales were zeroed.	Adults 1. Record the weight to the nearest 0.1 kg. 2. Repeat measures until two measurements are within 0.5 kg. Infants 1. Record weight to two decimal places.
Waist measures	<ol> <li>Equipment: Seca tape measure 201 1717009         <ol> <li>It is preferable to measure next to the skin, however the measure can be taken over clothing if it is light and fitting.</li> <li>Subject stands with feet close together, arms at the side and body weight evenly distributed.</li> <li>Subject relaxed and the measurement is taken at the end of a normal expiration.</li> </ol> </li> <li>Measure the waist at a horizontal level 2.5 cm above the navel.</li> </ol>		1. Record the measurement to the nearest 0.1 cm. 2. Repeat measures until two measurements are within 1.0 cm.