## NHESURENHENT OF NID-UPPER ERM CIRCUNFERENC:

Mid-upper arm circumference provides information on muscle mass and subcutaneous fat in the arm.

MUAC measurement should be taken in the left arm

Non-stretch tape with a vernier scale provides a more accurate measurement of MUAC especially in children


Keep the zero mark of the tape on the acromion and draw the tape down until olecranon process is reached.

Measure the length between these two bony points

Mark the midpoint in length between tip of acromion and olecranon processes on the skin using soft pen

Wind the Vernier tape around the arm with the lower border of the tape lying on the marking on the arm.
Ensure that the tape lies snugly around the arm by passing the fingers of your hands along the tape There should be no gaps between tape and mid arm. If the tape is wound too tightly there will be a bulge in the arm just beyond the tape.

Insert the free end of the tape into the slot in the vernier tape so that it fits the mid-upper arm snugly

## MEASURENENT OF NID UPPER ARM CIRCUNFERENCE



Bring the non-stretch tape over the middle of the vernier scale so that the
circumferential
measurement is taken without any obliquity.

## MEASURENENT OF NID UPPER ARM CIRCUMFERENCE

Hold the left end of the vernier scale with the right thumb and forefinger Hold the right end of the vernier scale with the non-stretch tape over it Read the measurement at the zero marking of the vernier scale Mid upper arm circumference is $\mathbf{2 3} \mathbf{~ c m s}$


## MEASURENENT OF WAIST CIRCUMFERENCE

## WAIST CIRCUNFERENCE

Waist circumference (WC) is a useful indicator for assessing abdominal adiposity.

A person with a wider waist than hip is at greater risk for noncommunicable diseases

Using a tape with a vernier scale prevents obliquity and makes the reading more accurate

It also allows the investigator to read the markings from a distance; leaving a space between the investigator and the person being measured makes both the person measured and the persons measuring more comfortable.

## MEASUREMENT OF WKIST CIRCUMEFRENCE USNG VERNIER TAPE

Waist circumference can be measured over thin clothes worn in summer. Person who is measuring should stand in front of the person being measured Person measured should stand straight with weight evenly distributed on both feet Waist is identified as the smallest circumference in the trunk between the costal margin and the iliac crest.
The tape is wound horizontally; there should not be any obliquity The tape is wound snugly around the waist but should not compress the soft tissue.

## NEASURENHNT OF WAST CIRCUNFERENCE USING YERNIER TAPE

Pass the fingers of your hand along the tape; there should be no gaps between the tape and waist
If the tape is wound too tightly there will be a bulge of the abdomen just beyond the tape. The deviation from horizontal plane is eliminated by ensuring that the tape lies horizontally on the vernier scale
Circumference can be readily and accurately read on the tape It is 59.8 cm

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## MEASUREMENT OF HIP CIRCUNFERENCE USING YERNIER TAPE

Hip circumference can be measured over thin clothes worn in summer.
Person who is measuring should stand on one side of the person being measured Person being measured should stand straight with weight evenly distributed on both the feet
Hip is identified as the largest circumference in the hip region.
The tape is wound horizontally; there should not be any obliquity The tape is wound snugly around the hip but should not compress the soft tissue.

## MEASUREMENT OF WKJST CIRCUMEFRENCE USNG VERNIER TAPE

Pass the fingers of your hand along the tape; there should be no gaps between the tape and hip
If the tape is wound too tightly there will be a bulge of the abdomen just beyond the tape. The deviation from horizontal plane is eliminated by ensuring that the tape lies horizontally on the vernier scale
Hip circumference can be readily and accurately read on the tape. It is $\mathbf{8 4 . 2} \mathbf{~ c m}$


