

Modified Goniometer:

Uses and benefits of modified Goniometer:

- Time saving device.
- It eliminates errors associated with holding and repositioning of the goniometer as it has Velcro straps which can be fasten to secure the goniometer in place, so it is student friendly.
- Calibrations on the straps and arms of goniometer helps to measure ROM, limb length and limb girth accurately and simultaneously.
 - - Telescopic antenna arms of goniometer which can be extended to reach upto reference bony landmark helps to overcome drawback of short arms and hence it eliminates error due to assumption of imaginary line connecting short arm with reference bony landmark.
 - Detachable straps and telescopic arms makes it portable.
 - It is useful to assess ROM, limb girth and limb length simultaneously and so it relives patient's discomfort of repetitive repositioning during assessment, hence it is patient friendly.

Application of modified Goniometer on model:

- Fulcrum is placed on the bony prominence of the joint of which Range of Motion is to be measured.
- Secure the modified Goniometer in place with velcro straps and by help of velcro strap simultaneously limb girth can be assessed.
- Ask the patient to do ROM actively or do passively.
- The telescopic antenna calibrated arms are extended as per the limb length and limb length is measured.
- In the same position and at same time Range of motion, limb girth and limb length of patient can be simultaneously assessed.
- Thus this modified Goniometer can be used to assess the Range of motion, limb length and limb girth simultaneously of the patient.
- It is easy to use and time saving.