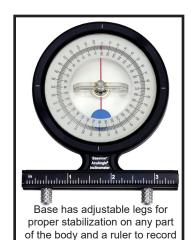


AcuAngle® Inclinometer Measurement Chart



Inclinometers and goniometers are devices used to measure range-of-motion. Range-of-motion can be measured from the neutral position to give a reading of flexion, extension, abduction, adduction, pronation, supination, dorsiflexion, plantarflexion, etc. or it can measure the entire range to yield a total range-of-motion of the joint in question.

setting positions.

The inclinometer is simple to use: place it near the joint to be measured; turn the dial until the scale reads zero; take the joint through its range; read the range-of-motion (in degrees) directly from the dial.

12-1149 Baseline® AcuAngle® Inclinometer



Fabrication Enterprises Inc. raprication Enterprises Inc. 250 Clearbrook Rd, Suite 240 Elmsford, NY 10523 (USA) tel: +1-914-345-9300 • 800-431-2830 fax: +1-914-345-9800 • 800-634-5370 FabEnt.com

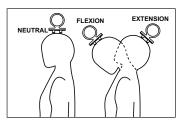
EC REP



AJW Technology Consulting GmbH Königsallee 106 40215 Düsseldorf (Germany)

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NECK



FLEXION & EXTENSION

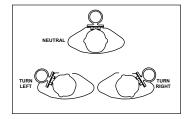
- Put head in neutral position
- Place goniometer on top of head, set to zero
- Flex or extend neck
 - Read result

Note: Be careful of the goniometer slipping

LATERAL MOVEMENT -

- Put head in neutral position
- Place goniometer on top of head, set to zero
- Abduct neck left and/or right
- Read result

Note: Be careful of the goniometer slipping

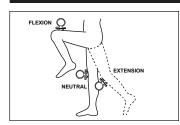


ROTATION

- · Lay subject supine, with head in neutral
- Place goniometer on forehead, set to zero
- Rotate neck
- Read result

Note: Ensure both shoulders are in contact with the bed

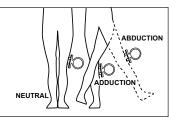
NEUTRAL



- FLEXION & EXTENSION

- Stand subject upright, preferably supported
- Place goniometer on thigh, set to zero
- Flex or extend hip
- Read result

Note: A different result will be obtained with the knee in flexion due to pelvic tilt and



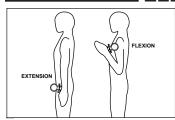
- ABDUCTION & ADDUCTION

- Stand subject upright, feet apart (or lay them on their side)
- Place goniometer on thigh, set to zero
- · Abduct or adduct hip with the body stabilized
- Read result

Note: Pelvic tilt may occur

- **ROTATION** With the goniometer on its side, set to
- Lay subject supine with knee in full extension. Neutral position is found by drawing a line from between the big and second toes to the center of the heel. Using the goniometer rotate hip until zero
- Place goniometer on side of foot, set to
- Internally or externally rotate hip
- Read result

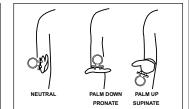
Note: There is no rotation of the fully extended knee unless severe joint laxity is



FLEXION & EXTENSION

- Put elbow and shoulder at neutral position at zero degrees of extension
- Place goniometer on forearm, set to zero
- Flex elbow
- Read result

Note: Stabilize shoulder and upper arm to prevent error



ROTATION

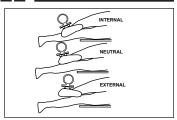
- Put shoulder at neutral position, elbow at 90° flexion, thumb facing upward
- Place goniometer on the back of the hand, set to zero
- Pronate or supinate elbow
- Read result from inner or outer dial

Note: Twisting of the hand may indicate greater range-of-motion

FLEXION & EXTENSION

- Lay subject prone, knee over edge of the
- Place goniometer on shin, set to zero
- Flex or hyperextend knee
- Read result

Note: Test can be performed with subject standing and hip stabilized

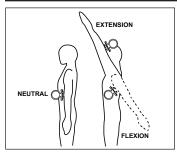


ROTATION

- Lay subject on side, knee at 90° flexion, rotationally neutral
- Place goniometer on side of foot, set to
- · Internally or externally rotate knee
- Read result

Note: It is very difficult to determine neutral position, so it is more useful to quote total-range-of motion

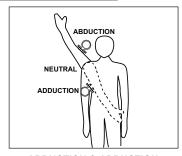
SHOULDER



FLEXION & EXTENSION

- Place goniometer on upper arm, set to zero
- · Flex or extend shoulder
- Read result

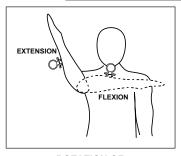
Note: Do not allow the subject to twist



ABDUCTION & ADDUCTION =

- · Put shoulder into neutral position
- Place goniometer on upper arm, set to zero
- · Abduct or adduct shoulder
- Read result

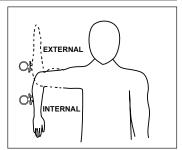
Note: Do not allow the subject's body to twist



— ROTATION OF — FLEXED SHOULDER

- Put shoulder at 90° flexion, elbow at 90° flexion, forearm and upper arm horizontal
- · Place goniometer on forearm, set to zero
- · Internally or externally rotate shoulder
- · Read result from inner or outer dial

Note: Keep subject's arm horizontal

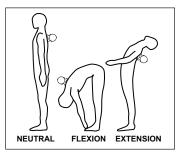


ROTATION OF ABDUCTED SHOULDER

- Put shoulder at 90° abduction, elbow at 90° flexion, forearm and upper arm horizontal
- Place goniometer on forearm, set to zero
- Internally or externally rotate shoulder
- Read result from inner or outer dial

Note: Keep the subject's arm horizontal

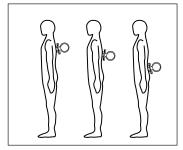
SPINE



- FLEXION & EXTENSION

- Stand subject upright
- Place goniometer on region of spine to be tested, set to zero
- Flex or extend the spine
- · Read result

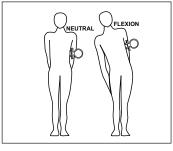
Note: If the subject is clothed, the goniometer may slip during flexion



- PLOTTING CURVATURE

- With the goniometer on its side, set to
- · Stand subject upright
- Place the goniometer at different levels of the spine
- · Read result at each level and plot

Note: Kyphotic and Lordotic curvatures are shown as positive or negative values

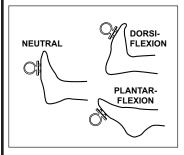


- LATERAL MOVEMENT

- · Stand subject upright
- Place goniometer on ribs under arm, set to zero
- · Laterally flex the spine
- · Read result

Note: The higher the goniometer is placed the greater will be the measured compound angle

ANKLE

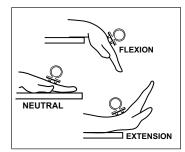


DORSIFLEXION & PLANTARFLEXION

- Lay subject supine, with foot over edge of bed
- Place goniometer on the sole of foot, set to zero
- Plantarflex or dorsiflex the ankle
- Read result

Note: More accurate readings can be obtained when the subject wears flat shoes to reduce the curvature of the foot

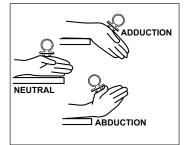
WRIST



- FLEXION & EXTENSION -

- Put hand and forearm prone on table
- Place goniometer behind MCP joints on back of hand, set to zero
- Move hand over edge of table, flex or extend wrist
- · Read result from inner or outer dial

Note: Ensure forearm and elbow are always in contact with the table

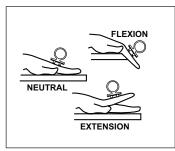


- ABDUCTION & ADDUCTION -

- Place side of hand, forearm and elbow on table
- Place goniometer on side of hand, set to zero
- Move hand over edge of table, abduct or adduct wrist
- · Read result

Note: Ensure back of the hand is always in vertical plane. To eliminate abduction/adduction of MCP joints put fingers in full flexion

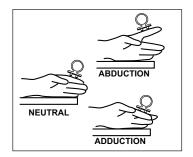
MCP JOINT



- FLEXION & EXTENSION -

- Put hand prone on table, finger over the
- Place goniometer on finger, set to zero
- Flex or extend MCP
- · Read result

Note: Maintain full extension of the PIP joint. For small fingers a wooden splint may be taped to the finger



- ABDUCTION & ADDUCTION -

- Put side of hand, forearm and elbow on table.
- Place goniometer on finger, set to zero
- Abduct or adduct MCP
- Read result

Note: Ensure the little finger, wrist and elbow are always in contact with the table