

Perform Muscle Testing and Range Of Motion Evaluations With One Device

The wireless microFET3 combination dynamometer and inclinometer is a portable, affordable device, that provides accurate and objective muscle testing and range of motion measurements. Now you can perform two evaluations with one gauge when diagnosing and treating muscular disorders. The gauge allows the clinician one free hand to stabilize and assist the patient when performing range of motion tests.







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Muscle Test Dynamometer and Inclinometer



Features

- Perform two evaluation functions using a single device
- Portable, cost effective option for users for muscle testing and range of motion
- Easy to read LCD displays show peak force and elapsed time for muscle testing, and degrees for range of motion testing
- Use as standalone device, or wireless with clinical or data collection software

Specifications

- Muscle test measurement range: 0-150 lbs force. Range of motion Mmeasurement: 0-180 degrees
- Muscle test selectable units of measure: pounds (lbs.), Newtons (N), or kilogram-force (kgf)
- Two threshold settings for muscle testing: Low Threshold – 0.8 lb. to 150 lbs. in 0.1 lb. increments and High Threshold – 3.0 lbs. to 150 lbs. in 0.1 lb. increments
- Accuracy within 1% of reading muscle testing, within 1° range of motion
- Stores up to 30 tests
- Uses rechargeable lithium ion battery
- Self-activating "sleep" mode after 3 minutes of nonuse to extend battery life

Your Purchase Includes

- microFET3 muscle testing device
- 3 Test attachments flat transducer pad, curved transducer pad, digit transducer pad
- User manual
- Calibration certificate
- Wall pack power supply
- Carrying case
- 1 year standard warranty included, with extended warranties available
- Optional clinical or FET data collection software available
- Available muscle and spinal range of motion test positions wall charts and test record forms to print can be downloaded from the website
- Product Warranty: Warranty registration completed online on website

Evaluation tools to measure, objectify and document human performance

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Range-of-Motion Testing Positions

Pictures indicate basic Range-of-Motion tests with inclinometer placement, proper positioning and stabilization of specific areas.

Cervical Testing Positions



Cervical Flexion (Occiputal Starting Position) Place unit on top of head. (Click)



Cervical Extension (Occiputal Starting Position) Place unit on top of head. (Click)



Cervical Lateral Flexion-Left (Occiputal Starting Position) Place the unit on top of head. (Click)



Cervical Lateral Flexion-Right (Occiputal Starting Position) Place the unit on top of head. (Click)





Cervical Flexion (Occiputal Ending Position) Ask patient to tip their head and neck forward as far as possible without experiencing pain. (Click) Click a third time to get reading.



Cervical Extension (Occiputal Ending Position) Ask patient to tip their head and neck backwards as far as possible without experiencing pain. (Click) Click a third time to get reading.



Cervical Lateral Flexion-Left (Occiputal Ending Position) Ask the patient to fully laterally flex their head to the left as far as possible without experiencing pain. (Click) Click a third time to get reading.



Cervical Lateral Flexion-Right (Occiputal Ending Position) Ask the patient to fully laterally flex their head to the right as far as possible without experiencing pain. (Click) Click a third time to get reading.





Cervical Flexion (T-1 Starting Position) With the patient still in the same position, place unit on T-1 (Click)



patient still in the same position, place unit on T-1.



Cervical Lateral Flexion-Left (T-1 Starting Position) With the patient in the same position place the unit on T-1 with horseshoe facing up against T-1. (Click)



Cervical Lateral Flexion-Right (T-1 Starting Position) With the patient in the same position place the unit on T-1 with horseshoe facing up against T-1. (Click)





Cervical Flexion (T-1 Ending Position) Ask the patient to return to the neutral position. (Click) Click a third time to get reading.



Cervical Extension (T-1 Ending Position) Ask the patient to return to the neutral position. (Click) Click a third time to get reading.



Cervical Lateral Flexion-Left (T-1 Ending Position) Ask the patient to return to the neutral position. (Click)



Cervical Lateral Flexion-Right (T-1 Ending Position) Ask the patient to return to the neutral position. (Click) Click a third time to get reading.





Cervical Extension (T-1 Starting Position) With the (Click)



Cervical Rotation-Left (Starting Position) With the patient lying face up, place unit on forehead. (Click)

Cervical Rotation-Left (Ending Position) Ask the patient to fully rotate their head to the left as far as possible without experiencing pain. (Click) Click a third time to get reading.

Cervical Rotation-Right (Starting Position) With the patient lying face up, place unit on forehead. (Click)

Cervical Rotation-Right (Ending Position) Ask the patient to fully rotate their head to the right as far as possible without experiencing pain. (Click) Click a third time to get reading.



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Range-of-Motion Testing Positions

Pictures indicate basic Range-of-Motion tests with inclinometer placement, proper positioning and stabilization of specific areas.

Lumbar Testing Positions



Lumbar Flexion (T-12 Starting Position) Place the unit on T-12. (Click)



Lumbar Extension (T-12 Starting Position) Place the unit on T-12. (Click)



Lumbar Lateral Flexion-Left (*T*-12 Starting Position) Place the unit on T-12 flat against the patient with horseshoe facing upward. (*Click*)



Lumbar Flexion (*T-12 Ending Position*) Ask the patient to fully flex (bend forward at the waist) as far as possible without experiencing pain. (*Click*) Click a third time to get reading.



Lumbar Extension (*T*-12 Ending Position) Ask the patient to fully extend (bend backwards at the waist) as far as possible without experiencing pain. (*Click*) Click a third time to get reading.



Lumbar Lateral Flexion-Left (*T-12 Ending Position*) Ask the patient to bend at the waist to the left as far as possible without experiencing pain. (*Click*) Click a third time to get reading.



Lumbar Flexion (S-1 Starting Position) With the patient still in the same position, place unit on S-1. (*Click*)



Lumbar Extension (S-1 Starting Position) With the patient still in the same position, place unit on S-1. (*Click*)



Lumbar Lateral Flexion-Left (S-1 Starting Position) With the patient still in the same position, place unit on S-1 flat against the patient. (*Click*)



Lumbar Flexion (*S-1 Ending Position*) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.



Lumbar Extension (S-1 Ending Position) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.



Lumbar Lateral Flexion-Left (S-1 Ending Position) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.



Lumbar Lateral Flexion-Right (*T-12 Starting Position*) Place the unit on T-12 flat against the patient with horseshoe facing upward. (*Click*)



Lumbar Lateral Flexion-Right (*T*-12 Ending Position) Ask the patient to bend at the waist to the right as far as possible without experiencing pain. (*Click*) Click a third time to get reading.



Lumbar Lateral Flexion-Right (S-1 Starting Position) With the patient still in the same position, place unit on S-1 flat against the patient. (*Click*)



Lumbar Lateral Flexion-Right (S-1 Ending Position) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.



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Pange of Motion Testing Positions

Range-of-Motion Testing Positions Pictures indicate basic Range-of-Motion tests with inclinometer placement proper positioning and stabilization of specific areas.

Thoracic Testing Positions



Thoracic Flexion (*T-1 Starting Position*) Place the unit on T-1. (*Click*)



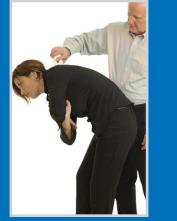
Thoracic Rotation-Left (*T-1 Starting Position*) Ask patient to bend forward. Place the unit on T-1 (ear-to-ear). (*Click*)



Thoracic Rotation-Right (*T-1 Starting Position*) Ask patient to bend forward. Place the unit on T-1 (ear-to-ear). (*Click*)



Thoracic Flexion (*T-1 Ending Position*) Ask the patient to bend forward at the waist as far as possible without experiencing pain. (*Click*) Click a third time to get reading.



Thoracic Rotation-Left (*T-1 Ending Position*) Ask the patient to rotate the trunk as far as possible to the left without experiencing pain. (*Click*) Click a third time to get reading.



Thoracic Rotation-Right (*T-1 Ending Position*) Ask the patient to rotate the trunk as far as possible to the right without experiencing pain. (*Click*) Click a third time to get reading.



Thoracic Flexion (*T-12 Starting Position*) With the patient still in the same position, place unit on T-12. (*Click*)



Thoracic Rotation-Left (*T-12 Starting Position*) With the patient still in the same position, place unit on T-12 (ear-to-ear). (*Click*)



Thoracic Rotation-Right (*T-12 Starting Position*) With the patient still in the same position, place unit on T-12 (ear-to-ear). (*Click*)



Thoracic Flexion (*T*-12 Ending Position) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.



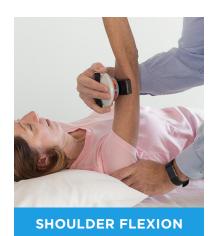
Thoracic Rotation-Left (*T*-12 Ending Position) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.



Thoracic Rotation-Right (*T-12 Ending Position*) Ask the patient to return to the neutral position. (*Click*) Click a third time to get reading.

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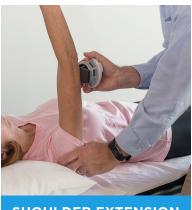
Tested Individual: Supine Shoulder Position: Flexed 90 degrees Dynamometer Position: Just proximal to elbow

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MUSCLE TESTING POSITIONS

Diagrams indicate muscle tests with transducer placement, proper positioning and stabilization for test





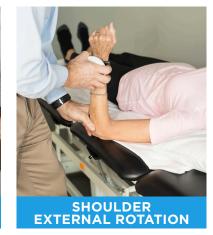
SHOULDER EXTENSION

Tested Individual: Supine Shoulder Position: Flexed 90 degrees Dynamometer Position: Just proximal to elbow

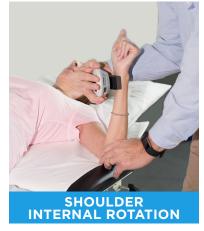


SHOULDER ABDUCTION

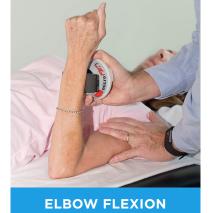
Tested Individual: Supine Shoulder Position: Abducted 90 degrees Dynamometer Position: Just proximal to elbow



Tested Individual: Supine Shoulder Position: Abducted 45 degrees Elbow Position: Flexed 90 degrees Dynamometer Position: Just proximal to wrist



Tested Individual: Supine Shoulder Position: Abducted 45 degrees Elbow Position: Flexed 90 degrees Dynamometer Position: Just proximal to wrist



Tested Individual: Supine Elbow Position: 90 degrees Dynamometer Position: Just proximal to wrist



ELBOW EXTENSION

Tested Individual: Supine Elbow Position: 90 degrees Dynamometer Position: Just proximal to wrist



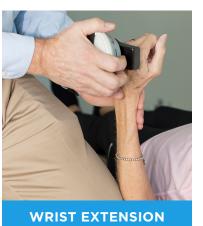
FOREARM PRONATION

Tested Individual: Supine Elbow Position: 90 degrees Dynamometer Position: Against dowel 20cm from dowel held in hand



Tested Individual: Supine Elbow Position: 90 degrees Dynamometer Position: Against dowel 20cm from

dowel held in hand



Tested Individual: Supine Elbow Position: 90 degrees Dynamometer Position:

Just proximal to metacarpal phalangeal joints of hand

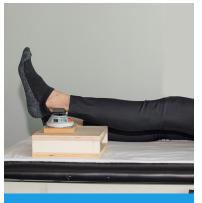


Tested Individual: Supine **Hip Position:** Flexed 90 degrees **Dynamometer Position:** Just proximal to femoral condyles



Tested Individual: Supine **Hip Position:** Extended & abducted 0 degrees

Dynamometer Position: Just proximal to lateral knee joint line





HIP EXTENSION

Tested Individual: Supine Lower Limb Position: Knee extended with distal limb supported on block Dynamometer Position:

Just distal to malleoli on Achille's tendon.

KNEE FLEXION Tested Individual: Sitting

Lower Limb Position: Hip & knee flexed 90 degrees

Dynamometer Position: Just distal to malleoli on a Achilles tendon.



KNEE EXTENSION

Tested Individual: Sitting **Lower Limb Position:** Hip & knee flexed 90 degrees

Dynamometer Position: Just proximal to malleoli



ANKLE DORSIFLEXION

Tested Individual: Supine **Lower Limb Position:** Knee extended & ankle in neutral dorsiflexion

Dynamometer Position: Just proximal to metacarpal phalangeal joints

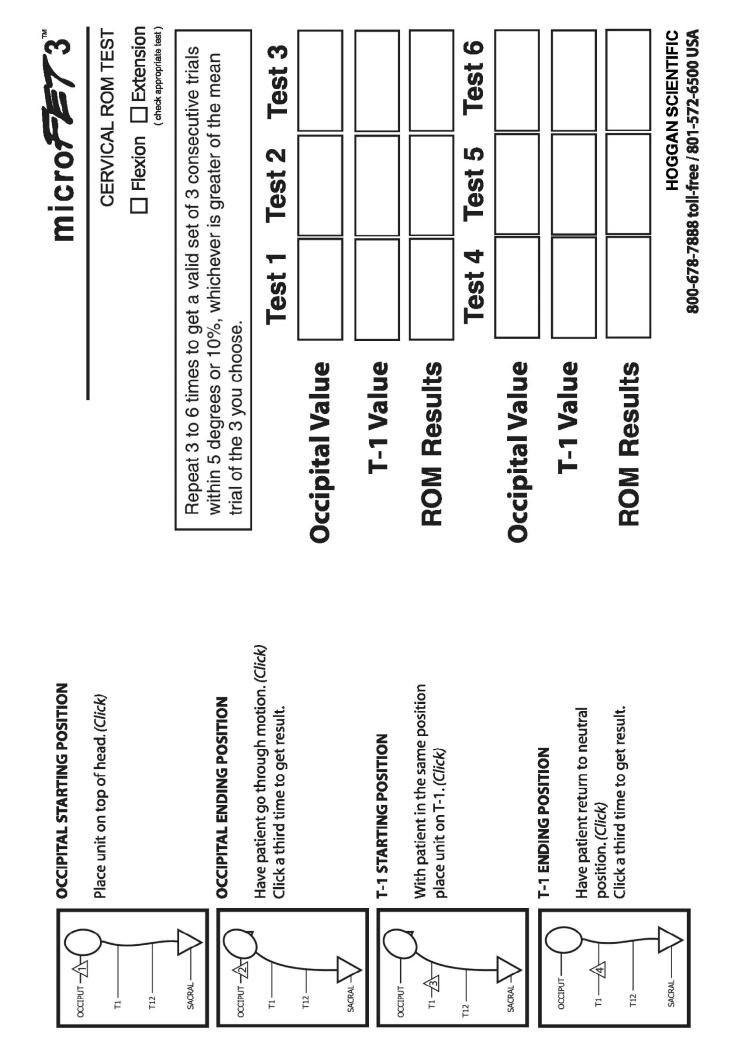


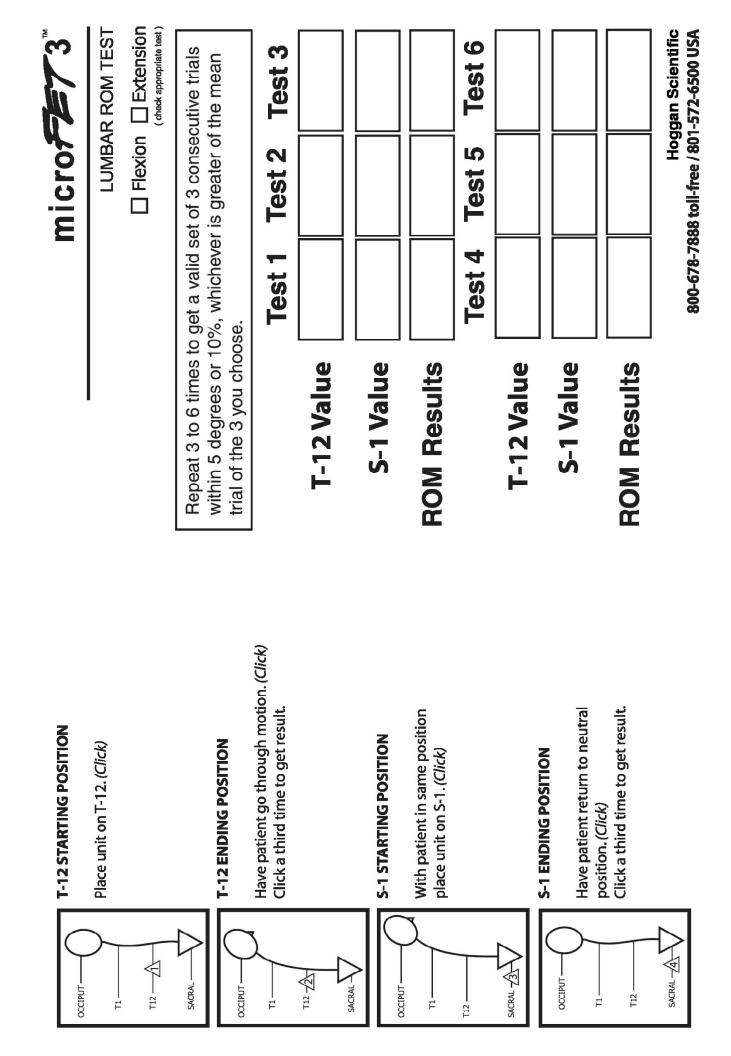
ANKLE PLANTARFLEXION

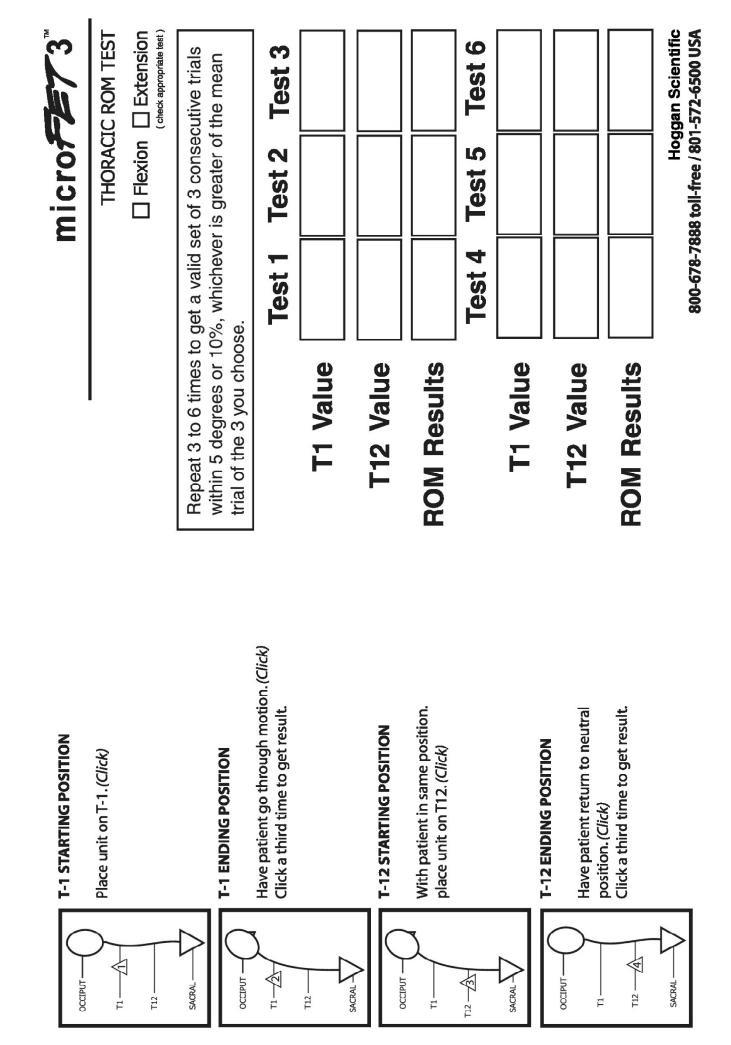
Tested Individual: Supine **Lower Limb Position:** Knee extended & ankle in neutral dorsiflexion

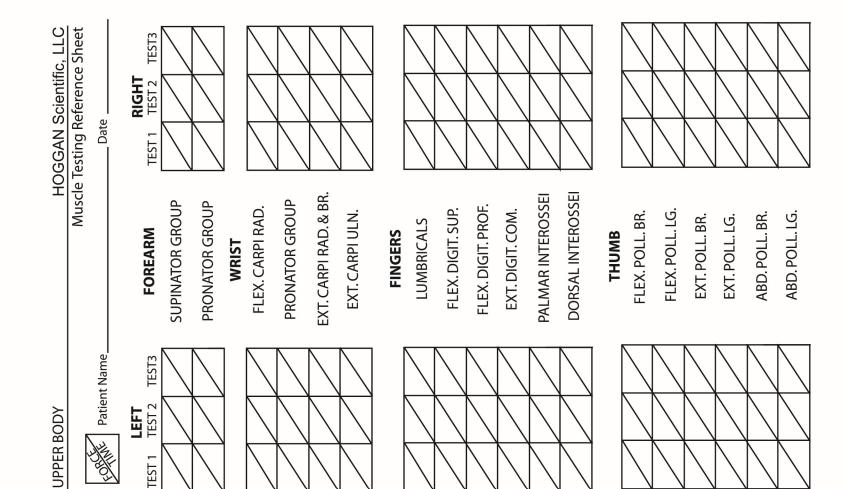
Dynamometer Position: Over metacarpal phalangeal joints

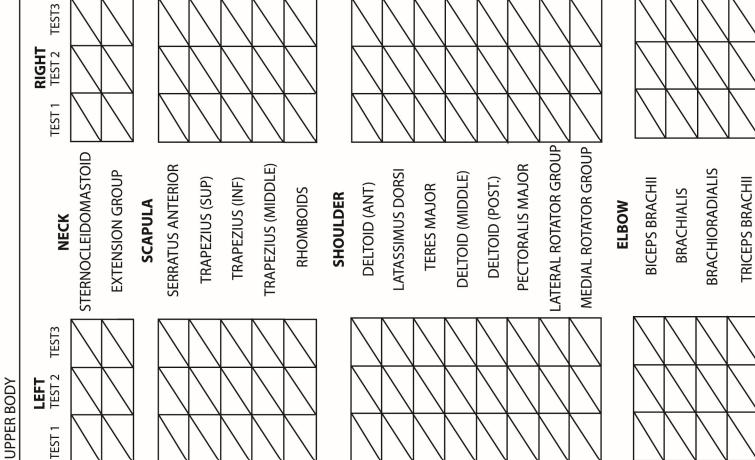
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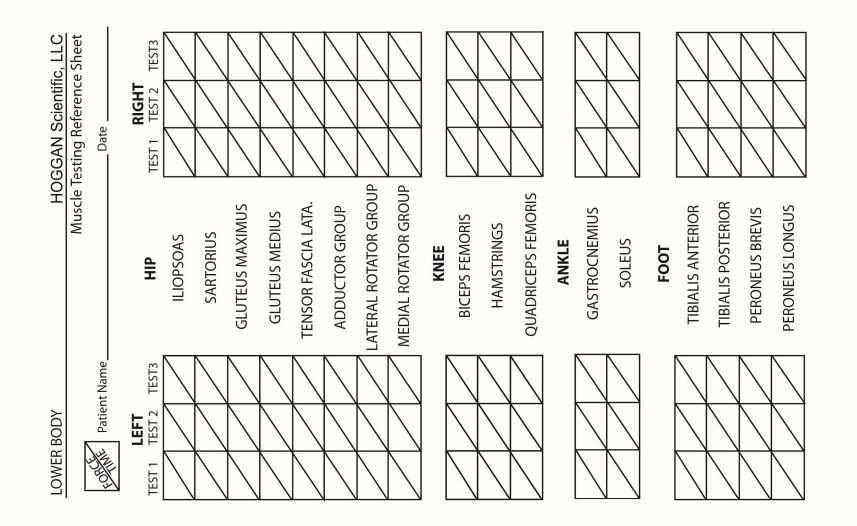






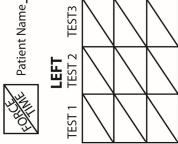


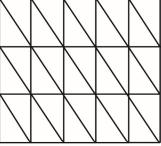
UPPER BODY

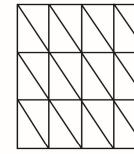




Muscle Testing Reference Sheet HOGGAN Scientific, LLC







FLEX. DIGIT. LG. FLEX. DIGIT. BR. EXT. DIGIT LG. EXT. DIGIT BR. LUMBRICALS TOES

HALLUX

FLEX. HALL. BR. FLEX. HALL. LG. EXT. HALL. BR. EXT. HALL. LG.

