

Overview

- ➤ Importance of muscle testing as an assessment tool
- ➤ Testing techniques/strategies
- ➤ Muscle Tests (Multifidus, TvA, Psoas, Glute max/med, Mid/Low
 - Traps.....
- ➤ Exercise prescription
- ➤ Activation/Integration
- ➤ Big Picture Movement patterns
- ➤ Q&A

2

Why Muscle Test?

- ➤ As hands off practitioners, muscle testing can provide important information
- ➤ May help to correct muscle imbalances; compensatory strategies/
 patterns and weak areas

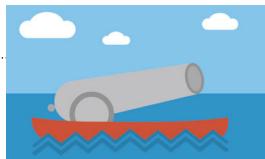
3

- ➤ May help to improve alignment and gait mechanics
- ➤ Allows for greater understanding of body mechanics

Poor Stability = Poor Results

• You can't fire a cannon from a canoe (Charles

Poliquin)



•

Stability

- ➤ Ability to manage load effectively
- ➤ Ability to maintain strict technique
- ➤ Ability to maintain optimal alignment
- ➤ Ability to avoid compensatory strategies
- ➤ Ability to maintain connection with desired muscle throughout
- ➤ Stability isn't necessarily balance

Sarah Zahab

5

Tension/Correction

- ➤ Many muscles produce actions at most joints
- ➤ Focus on muscles often inhibited
- ➤ Use assessment and history to guide testing
- ➤ Importance of putting tension back into system
- ➤ Release tight areas without integration may reduce stability
- ➤ Release/mobilize, follow up with correctives then integrate

Testing technique

- ➤ Test on exhale
- ➤ Light pressure
- ➤ Cue vector/mov't 1st & ask to match pressure
- ➤ Watch your body position
- ➤ Practice

6

MULTIFIDUS

Bilaterally: extends vertebral column

Unilateral: Lateral flexion & contralateral rotation

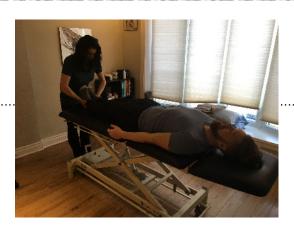
Provides stiffness, segmental stability and support to spine



Multifidus Muscle Test

- ➤ Dominant/overworking erectors, cervical extensors, iliacus
- ➤ Supine with feet together, hands holding heels
- ➤ Cue: press legs into table/floor
- ➤ Action: gently lift feet off table/floor

Multifidus Muscle Test



10

Multifidus Activation

9



11

Multifidus Integration - Bird Dog Regression



Multifidus Integration Bird Dog Regression



Multifidus Integration Bird dog Progression



14

Multifidus Integration Bird dog Progression

13

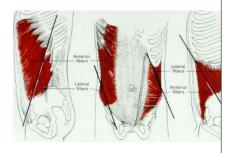


Multifidus Integration Bird dog Progression



TRANSVERSE ABDOMINUS

- Supports abdominal wall
- Aids in forced expiration & raised IAP
- Provides thoracic & lumbopelvic stability



Transverse Abdominus Muscle Test

- ➤ Dominant/overworking erectors, obliques, iliacus
- ➤ Prone; hands @ ankles
- ➤ Cue: draw navel in, exhale and press legs to floor
- ➤ Action: gently pull ankles upwards

17

TvA Muscle Test

.....

Transverse Abdominus Activation

18

- ➤ Supine activation with exhalation
- ➤ Cue: close bookends, wrap in, tighten belt
- ➤ Action: use shhh or hiss sound, coordinate with breath & PF

TvA Integration



Multifidus Integration Bird Dog Regression



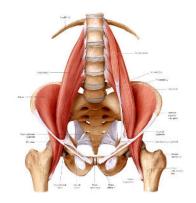
22

ILIOPSOAS?

21

- · Commonly grouped as one muscle
- Only one shared insertion (femur) differing attachments
- Iliacus crosses one joint, psoas crosses many (6+)
- Psoas often weak, iliacus often strong/dominant
- Each deserving of it's own name and attention

PSOAS



- Flex & ext rotate hip
- Ant tilt pelvis & assist in adduct abducted hip
- + Laterally flexes spine, contra laterally rotates lumbar spine

Psoas Muscle Test

- ➤ Dominant/overworking iliacus, QLs, contra-lateral poses
- ➤ Supine with leg flexed; abducted and extrotated; brace opp ASIS...
- ➤ Cue: press leg up
- ➤ Action: gently press ankle down

Psoas Muscle Test



26

Psoas Activation

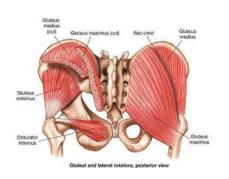
25



Psoas Integration



GLUTEUS MAX/MED



- 1.Max: Hip extension, ext rotation, hip abd
- 2.Med: Hip abduct + flexion & medial rotation (ant fibres) & extension & lateral rotation (post fibres) 3.Med: Frontal plan stability

Glute max Muscle Test

- ➤ Dominant/overworking piriformis, calves, hamstrings, iliacus, lumbar erectors
- ➤ Supine bent knee; hand under foot, leg off table more glute max · · · · specific
- ➤ Cue: press foot down
- ➤ Action: gently resist hip extension, pull upwards

29

Glute max Muscle Test



Glute max Activation

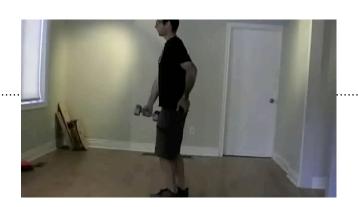
30



Glute max Integration



Glute max Integration

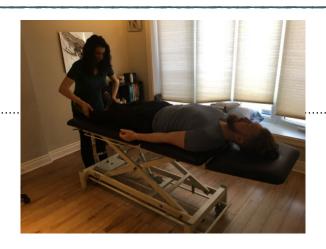


33

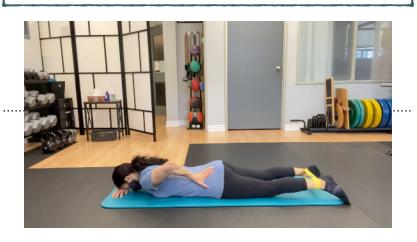
Glute med Muscle Test

- ➤ Dominant/overworking QL, TFL, upper trap, jaw
- ➤ Supine hand @ ankle; brace opposite ankle
- ➤ Cue: move leg out
- ➤ Action: gently resist hip abduction, pull in

Glute med Muscle Test



Glute max Activation



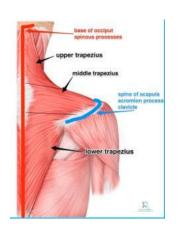
Glute max Integration



MID & LOW TRAPEZIUS

37

- Middle: scapular retraction
- Lower: scapular depression & upward rotation of scapula
- Provides scapular stability



Mid/low trap Muscle Test

38

- ➤ Dominant/overworking upper traps, lev scap, pec minor
- ➤ Mid: test @ wrist with arm arm extended out
- ➤ Low: test @ wrist with arm in high V position
- ➤ Cue: press arm down
- ➤ Action: gently pull upwards

Mid Trap Muscle Test

Low trap Muscle Test

41

42

Low trap Activation



Mid/low trap Integration



Progress?

- ➤ Release overworking areas
- ➤ Activate underworking areas
- ➤ Integrate
- ➤ Less is more
- ➤ Regress Perfect Progress
- ➤ Start at the start

Patterns

- ➤ Address weaknesses, overworking areas together as a pattern
- ➤ Identify compensatory strategies
- ➤ Retrain, re-pattern,
- ➤ Ask why? Tight, guarded, etc.
- ➤ Add movement correction to help reinforce motor control

45

Thank You!

Instagram: @continuumfit www.continuumfitness.ca



#ideapti ©2023 IDEA Health & Fitness Association. All Rights Beserved