MASSAGENERD.COM Presents

47 Muscles With TrP's (Anterior)

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Scalenus Anterior (skay-LEE-nus) - Triangular with unequal sides **Scalenus Medius** (skay-LEE-nus) - Triangular with unequal sides **Scalenus Posterior** (skay-LEE-nus) - Triangular with unequal sides

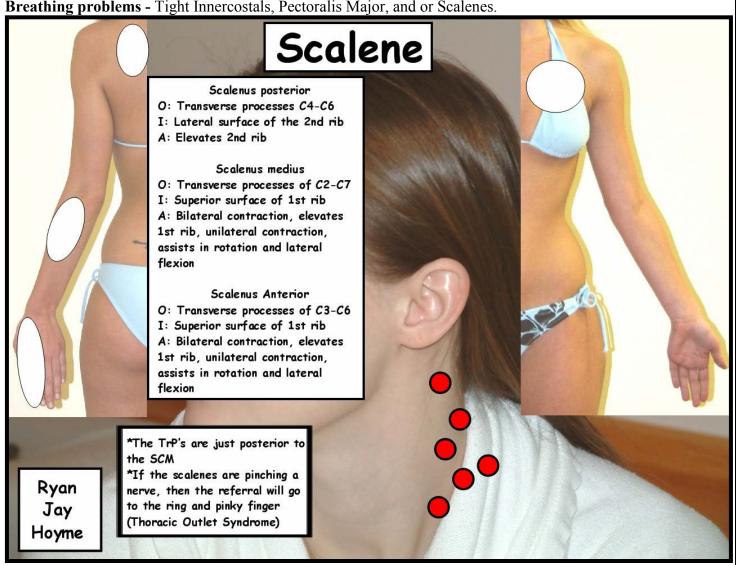
TrP Location – The TrP's are just posterior and under the SCM.

FUN FACTS

Thoracic Outlet Syndrome - Scaleni or Pectoralis Minor

Back Pain (Upper) - Scaleni, Levator scapulae, Rhomboids, Latissimus dorsi, Serratus posterior superior, Thoracic paraspinals

Breathing problems - Tight Innercostals, Pectoralis Major, and or Scalenes.



Platysma - Most superficial neck muscle (Covers SCM)

Sternocleidomastoid (STER-no-CLY-do-mas-toyd) - Connecting to sternum, clavicle and mastoid process (Tightness can cause vertigo or torticollis / only muscle that move the head and are not connected to the ribs)

TrP Location – For the SCM you have the client flex their neck and then rotate it to find the SCM and then pinch it (Safest way)

FUN FACTS

Stiff Neck (Acute) - Levator scapulae, Sternocleidomastoid, Upper Trapezius

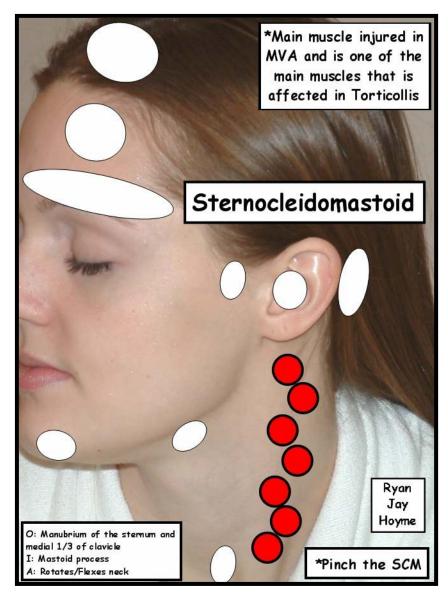
Atypical Facial Neuralgia - Sternocleidomastoid (sternal division), Facial muscles

Headache (Tension/Migraine) - Sternocleidomastoid, Upper trapezius, Posterior cervicals, Temporalis

Earache (Drum normal) - Deep masseter, Sternocleidomastoid (clavicular division)

Wryneck -Tightness and hard to rotate the head could be the Sternocleidomastoid.

Whiplash - Head whipping back and forth or side to side in a fast jerky movement. Could be any of the neck muscles.

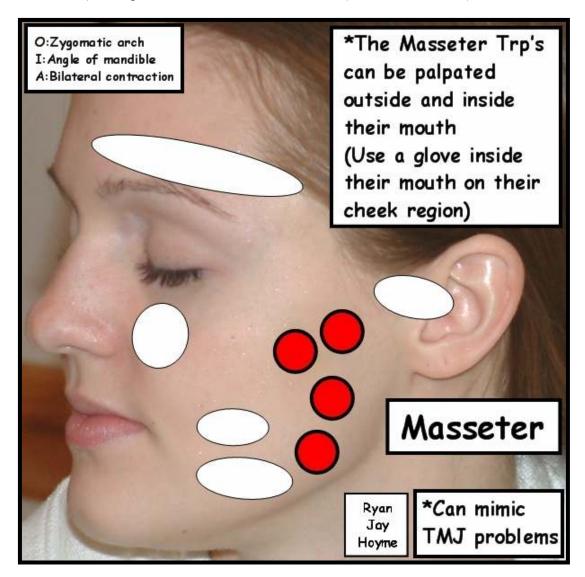


Masseter (MAS-sit-er) - Chew

TrP Location – Place your hand on their cheek region and have them open and close their mouth to feel the muscle

FUN FACTS

Jaw Pain, TMJ Dysfunction - Lateral pterygoid or Masseter Earache (Drum normal) - Deep masseter, Sternocleidomastoid (clavicular division)

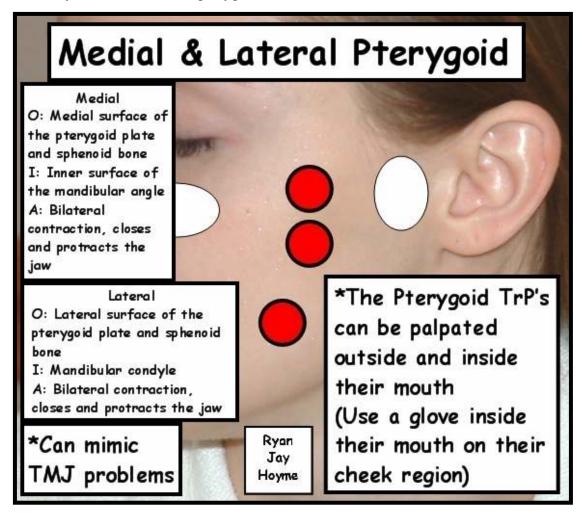


Lateral Pterygoid (TER-ih-goyd) - Wing shaped **Medial Pterygoid** (TER-ih-goyd) - Wing shaped

TrP Location – Superior TrP is superior to the Masseter. The inferior TrP is Inferior to the Superior TrP.

FUN FACTS

Jaw Pain, TMJ Dysfunction - Lateral pterygoid or Masseter



Buccinator (BUK-sin-ate-or) - Trumpeter

Orbicularis Oculi (or-BIK-you-LAR-iss OK-you-li) - Small disk belonging to the ear (Winking muscle)

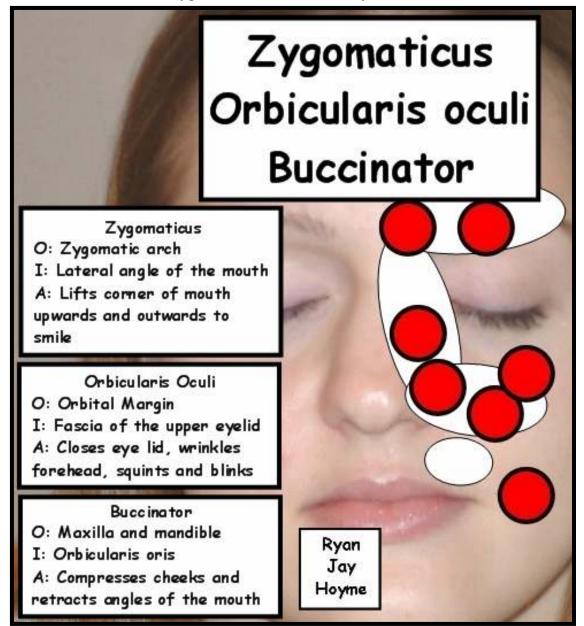
Orbicularis Oris (or-BIK-you-LAR-iss OR-iss) - Small disk belonging to the mouth (Kissing muscle)

Zygomaticus Major (ZYE-go-MAT-ik-us) - Connected to the connector

Zygomaticus Minor (ZYE-go-MAT-ik-us) - Connected to the connector

TrP Location – Buccinator is medial to the Masseter TrP's.

TrP Location – Orbicularis oculi & Zygomaticus ore around the eye socket.

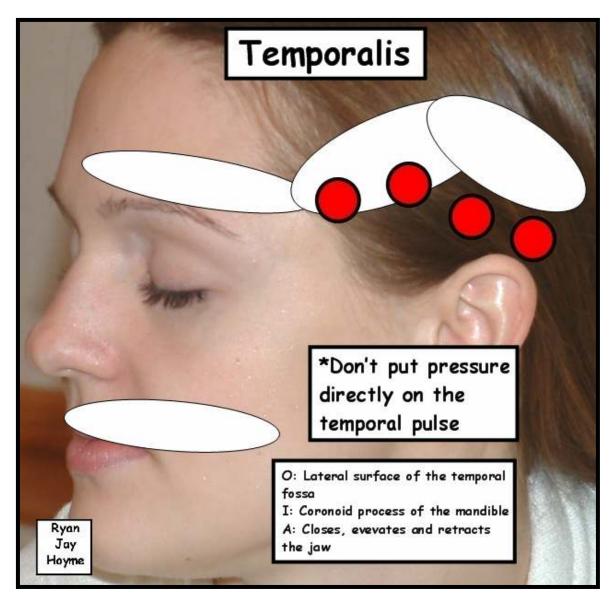


Temporalis (TEMP-OR-al-ISS) - Temple of head

TrP Location – Locate the temporal pulse and keep going posterior to find the TrP's

FUN FACTS

Headache (Tension/Migraine) - Sternocleidomastoid, Upper trapezius, Posterior cervicals, Temporalis

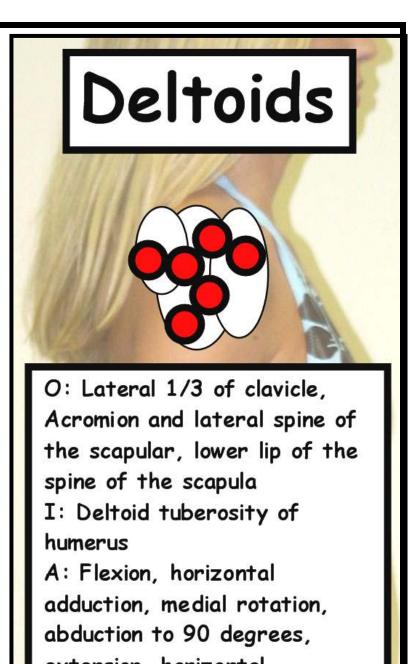


Deltoid (DEL-toyd) - Triangular (Shoulder pad muscle / Anterior, Lateral (or middle) and Posterior / Antagonist to itself)

TrP Location – 4 TrP's are on the lateral deltoid and there is one on each of the other deltoids (Anterior & Posterior)

FUN FACTS

Arthritis of Shoulder - Infraspinatus or Deltoid Bursitis of shoulder (Subdeltoid) - Infraspinatus, Deltoid, Supraspinatus



extension, horizontal abduction, lateral rotation

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Coracobrachialis (KORE-a-koe-BRAY-kee-AL-iss) - Crows beak of the arm **Subclavius** (sub-KLAVE-ee-us) - Below the clavicle

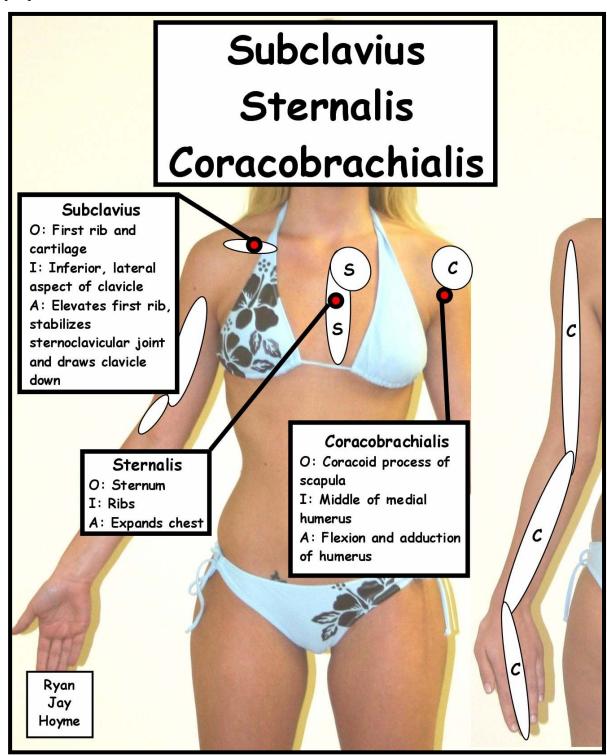
TrP Location – Coracobrachialis; pinch the anterior part of the axillary region

TrP Location – Subclavius; Under the clavicle

TrP Location – Sternalis; ½ way down the sternum and ½ inch off it

FUN FACTS

Not many people have the sternalis and subclavius muscle



Biceps Brachii (BI-seps BRAY-kee-eye) - Two heads and of the arm (Corkscrew muscle) Brachialis (BRAY-kee-AL-iss) - Arm (Strongest elbow flexor / superficial lateral forearm)

Pectoralis Major (PEKtor-al-iss) - Chest Pectoralis Minor (PEKtor-al-iss) - Chest

TrP Location -

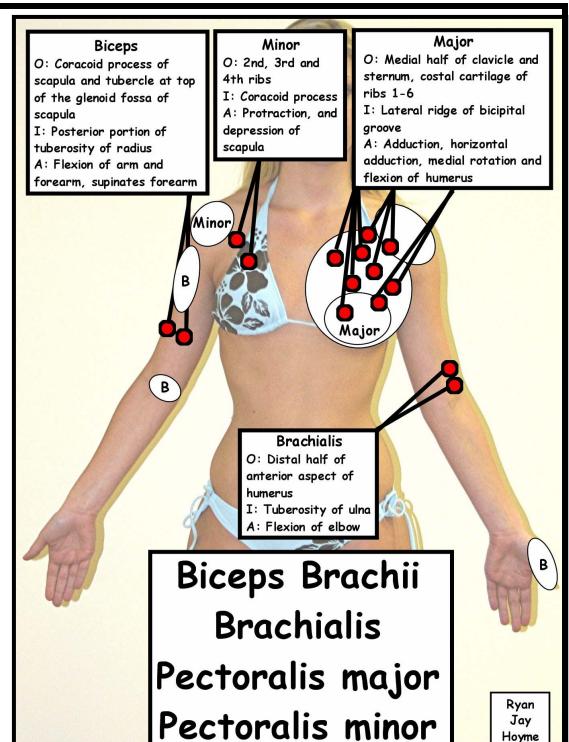
Pectoralis minor; have the client in the supine position, anterior part of the axillary, then place your fingers on the anterior ribs and finally have the client perform horizontal adduction to go more medially under the Pectoralis major

TrP Location -

Pectoralis Major; ask the client where their areola is as a landmark (Never put pressure on it). You can use a towel over the pects or use the client's fingers to find the TrP's on woman.

TrP Location -

Brachialis; have the client flex their bicep and it is under the lower portion of the bicep on the lateral side



FUN FACTS

Thoracic Outlet Syndrome - Scaleni or Pectoralis (Tightness equals rounded shoulders and or constriction of chest wall Minor)

Mastectomy - Removal of the breast tissue. Pectoralis minor and Pectoralis major could be affected. **Breathing problems** - Tight Innercostals, Pectoralis Major, and or Scalenes.

Abductor Digiti Minimi Manus (ab-DUCK-tur DIH-jih-tee MIN-ih-mee MANus) - Lead away, digits, smallest and hand Abductor Pollicis Brevis (ab-DUCK-tur POLL-is-iss BREV-us) - Lead away, thumb and short

Abductor Pollicis Longus (ab-DUCK-tur POLL-is-iss LONG-us) - Lead away, thumb and long

Adductor Pollicis (ad-DUCK-tur POLL-isiss) - Lead towards and thumb

Brachioradialis (BRAY-kee-oh-RAY-dee-AL-iss) - Arm and radius

TrP Location – Brachioradialis; 2 inches inferior to the lateral epicondyle of the humerus

TrP Locations - Adductor Pollicis & Opponens Pollicis; Just inferior to the index finger on the palm side

TrP Locations – Dorsal Interosseous; on the dorsal part of the hand

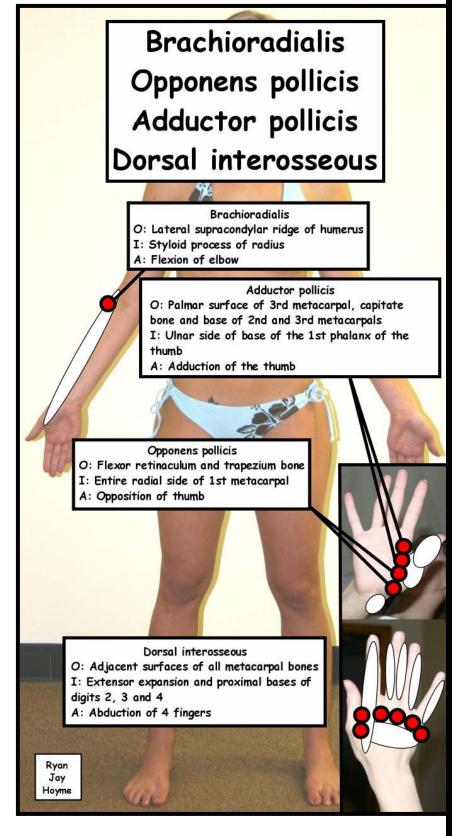
FUN FACTS

Hypothenar eminence - Opponens digiti minimi, Flexor digiti minimi brevis, and Abductor digiti minimi

Thenar eminence - Opponens pollicis, Abductor pollicis brevis, and Flexor pollicis brevis

De Quervain's Syndrome

(Washerwoman's Sprain) - Stenosing tenosynovitis of the short extensor (extensor pollicis brevis) and long abductor tendon (abductor pollicis longus) of the thumb.



Palmaris Longus (pal-MAR-iss LONG-us) -Palm and long

Pronator Quadratus (PRO-nay-tor kwad-RATE-us) - Causes pronation and square shaped

Pronator Teres (PROnay-tor TER-eez) -Causes pronation and round/smooth

Supinator (SOOP-in-ATE-or) - Causes supination

TrP Location – Palmaris Longus; one inch inferior to the medial epicondyle of the humerus and go medial about 1 ½ inches (Make sure you are not on the Flexor carpi ulnaris)

TrP Location – Pronator Ouadratus: find the carpals on the radial side and go superior 1 inch (Try not to push pressure one the radius bone and not on the radial pulse; so just go at an angle)

TrP Location – Pronator Teres; find the medial epicondyle of the

humerus and go inferior 1/2 inch and one inch medial

TrP Location – Supinator; find lateral epicondyle of humerus, then go inferior one inch and medial one inch (Hook under Brachioradialis)

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FUN FACTS

Tennis Elbow (Epicondylitis) - Supinator, Wrist Extensors, Triceps brachii

Sup

Radial Tunnel Syndrome - This syndrome is often misdiagnosed as chronic lateral epicondylitis, because patients complain of lateral elbow pain at the forearm. Stretch the supinator muscle.

Pronator Teres Syndrome - A Cause of Carpal Tunnel Syndrome and it is a Nerve entrapment at the pronator teres muscle area. The median nerve can get entrapped between the humeral and ulnar heads of the pronator teres muscle. The patient will complain of pain and tingling in the palmar and dorsal aspect of the hand, palm, and fingers.

Dupuytren's contracture - This relatively common disorder is characterized by hyperplasia of the palmar fascia and related structures, with nodule formation and contracture of the palmar fascia.

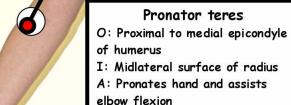
Pronator teres Pronator quadratus Supinator Palmaris longus

Supinator

- O: Lateral epicondyle, radial collateral and annular ligament and ridge of the ulna below the radial notch
- I: Lateral surface of proximal 1/3 of radius A: Assists bicep to supinate hand and forearm

Pronator quadratus

- O: Distal 1/4 of anterior ulna
- I: Distal 1/4 of
- lateroanterior radius
- A: Pronates the hand



Palmaris Ionaus

- O: Medial epicondyle of humerus
- I: Palmar aponeurosis
- A: Flexion of wrist



Flexor Carpi Radialis (FLEXS-or KAR-pee- RAY-dee-AL-iss) - Bend, wrist and radius Flexor Carpi Ulnaris (FLEXS-or KAR-pee- ul-NAR-iss) - Bend, wrist and ulna Flexor Digiti Minimi Manus

Flexor Digiti Minimi Manus (FLEXS-or DIH-jih-tee MIN-ihmee MAN-us) - Bend, digits, smallest and hand

Flexor Digitorum Profundus (FLEKS-or DIH-jih-TOR-um pro-FUND-us) - Bend, digits and deep Flexor Digitorum Superficialis (FLEKS-or DIH-jih-TOR-um SOO-per-fish-ee-AL-us) - Bend, digits and top of surface

Flexor Pollicis Brevis (FLEXS-or POLL-is-iss BREV-us) - Bends, thumb and short

Flexor Pollicis Longus (FLEKS-or POLL-is-iss LONG-us) - Bend, thumb and long

TrP Location – Flexor Carpi Radialis; find the lateral epicondyle of the humerus and go down 2 inches and one inch medial (Make sure you are not on the median nerve)

TrP Location – Flexor Carpi

Ulnaris; find the medial epicondyle of the humerus and go inferior 1 inch and one inch medial (Most medial forearm muscle).

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TrP Location – Flexor Digitorum; the TrP's are on each side of the median nerve.

TrP Location – Flexor Pollicis Longus; find the carpals on the radial side and go superior 2 inches (Try not to push pressure one the radius bone and not on the radial pulse; so just go at an angle)

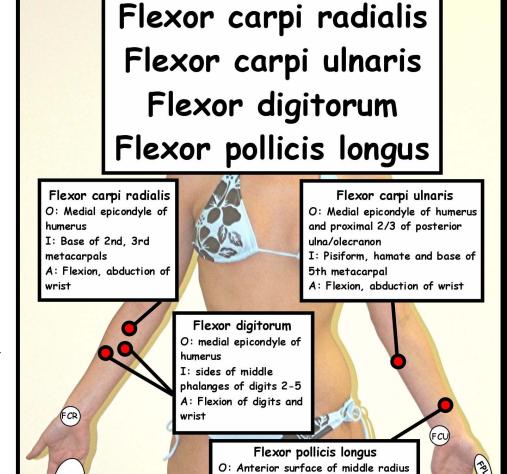
FUN FACTS

Carpal Tunnel Syndrome - There are 9 tendons and the median nerve pass through the tunnel from the forearm to the hand. Increased pressure in the tunnel form inflammation in one or many of the tendons irritate the median nerve. Flexor Retinaculum, Flexor Digitorum Superficialis, Flexor Digitorum Profundus, and or the Palmaris Longus.

Golfer's Elbow (Medial epicondylitis) - Inflammation of the medial epicondyle. Palmaris Longus, Flexor Digitorum Superficialis, Flexor Carpi Radialis, Flexor Carpi Ulnaris, or Pronator Teres.

Guyon's canal syndrome - a common nerve compression affecting the ulnar nerve as it passes through a tunnel in the wrist called Guyon's canal. This problem is similar to carpal tunnel syndrome, but involves a completely different nerve. Sometimes both conditions can be causing a problem in the same hand.

Flexor Carpi Ulnaris tunnel syndrome - This muscle tunnel syndrome represents entrapment of the ulnar nerve between the humeral and ulnar heads of the flexor carpi ulnaris muscle.



I: Base of palmar surface of distal

phalanx of thumb

A: Flexion of thumb

External Abdominal Oblique (ab-DAHM-in-al oh-BLEEK) - Abdomen and slant Internal Abdominal Oblique (ab-DAHM-in-al oh-BLEEK) - Abdomen and slant (The

Rectus Abdominis (REK-tus ab-DAHM-in-iss) - Straight and abdomen (Horizontal layer of connective tissue every few inches / six pack muscle)

fibers go vertical)

Transversus Abdominis (Trans-VER-sus ab-DAHM-in-iss) - Lying crosswise and abdomen (Deepest abdominal muscle / Wraps around the internal organs)

TrP Location – Never push straight down on the abdomen (Especial above the navel)
TrP Location – Rectus abdominis; have the client perform a sit-up to find the rectus abdominis

FUN FACTS

Costals - Internal and External **Diaphragm -** Prime mover in inspiration

Internal Intercostals (inter-KOS-talz) - Between ribs
External Intercostals (inter-KOS-talz) - Between ribs
Duodenal ulcer - Rectus
abdominus

Back Pain (Lower) -

Rectus abdominis External obliques Internal obliques Transverse abdominus Rectus O: Crest of pubis and pubic symphysis I: Xiphoid process and 5th, 6th, and 7th ribs A: Flexion of trunk and compresses contents Internal O: Inguinal ligament, iliac crest and External thoracolumbar O: External surface fascia of 8 lower ribs I: Abdominal I: Abdominal aponeurosis, linea aponeurosis to linea alba and lower 4 alba and iliac crest ribs A: Bilaterally and A: Bilaterally and flexion of trunk. flexion of trunk. Unilaterally, lateral Unilaterally, flexion and rotation lateral flexion and to same side rotation to same Transverse side O: Inquinal ligament, iliac crest, thoracolumbar fascia and lower 6 ribs I: Abdominal aponeurosis to linea Ryan Jay alba and iliac crest Hoyme A: Compresses contents

Quadratus lumborum, Thoracolumbar paraspinals, Gluteus (maximus / medius), Rectus abdominis, Iliopsoas **Hockey player's syndrome** - Involves a tear of the external oblique aponeurosis, associated with inguinal nerve entrapment.

Inguinal hernias - result from a weakness or tear of the posterior wall of the inguinal canal (transversus abdominis).

Frequent Urination - Tight abdominus rectus muscle and floor of the pelvis.

Iliacus (ILL-ee-AK-us) - Hip

Psoas Major (SO-as) - Loins (Strongest hip flexor / strongest posture muscle)

Psoas Minor (SO-as) - Loins (Missing in most cadavers)

TrP Location – Psoas; find the rectus abdominus and perform the technique straight down on the external obliques (Never above the navel region and not on the rectus abdominis. Once you have gone as far as you can, then hook your fingers towards their spine

TrP Location - Iliacus; find their hip bone and hook your fingers under it

FUN FACTS

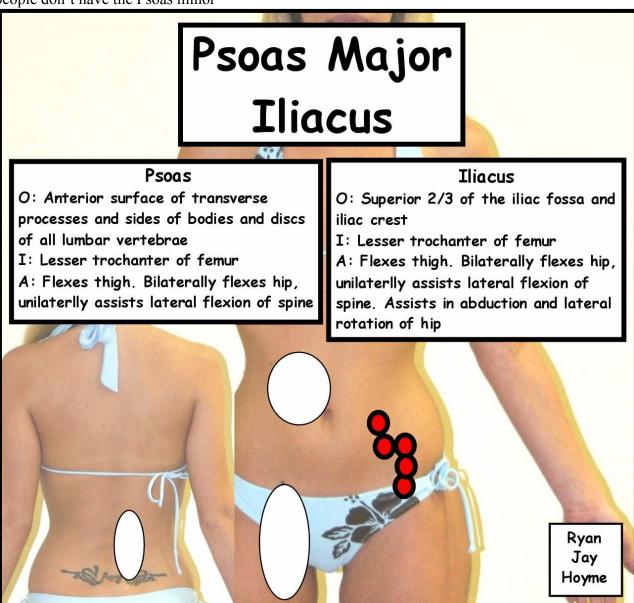
Iliopsoas - Group of psoas major, psoas minor, and iliacus

Appendicitis - Rectus abdominus or Psoas

Back Pain (Lower) - Quadratus lumborum, Thoracolumbar paraspinals, Gluteus (maximus / medius), Rectus abdominis, Iliopsoas

Groin Pain - Adductors or Iliopsoas

Psoas Syndrome - Chronic psoas shortening and weakness may occur due to sleeping in the fetal position, exercise programs emphasizing repetitive hip flexion, and sedentary life styles. Some people don't have the Psoas minor



Rectus Femoris (REK-tus FEM-oriss) - Straight and relates to the thigh (Only quad muscle that crosses two joints and has two actions)

Vastus Intermedius (VAS-tus inter-MEE-dee-us) - Large

Vastus Lateralis (VAS-tus LAT-ter-al-us) - Large

Vastus Medialis (VAS-tus MEE-dee-al-us) - Large

TrP Location – Rectus femoris; have the client tense up their anterior part of their leg and for the superior TrP, find their ASIS and go inferior about 2 inches and medial 2 inches. For their lower TrP, fin patella (Knee cap) and go 2-3 inches superior

TrP Location – Vastus intermedius; have the client tense up their anterior part of their leg and for the TrP, find their ASIS and go inferior about 3 inches and hook under the rectus femoris.

TrP Location – Vastus lateralis; Use the rectus femoris and the IT band as landmarks (The Vastus lateralis is in between both of them) TrP Location – Vastus medialis; have the client tense up their anterior part of their leg and find patella (Knee cap) and go 2 inches superior and one inch medial. The other TrP is 3-4 inches superior of the patella and one inch medial

FUN FACTS

Arthritis of Knee - Rectus femoris, Vastus medialis, Vastus lateralis Bursitis of the hip (Trochanteric) -Gastrocnemius, Vastus lateralis, Tensor fasciae latae or Quadratus lumborum

Quadriceps Rectus femoris Vastus intermedius Vastus medialis Vastus lateralis Lateralis O: Anterior and inferior border of greater trochanter I: Tuberosity of tibia Rectus femoris A: Extends knee O: Anterior inferior iliac spine I: Tuberosity of tibia A: Extends knee Intermedius O: Anterior and lateral surfaces of proximal 2/3 of femur I: Tuberosity of tibia A: Extends knee Medialis O: Medial lip of linea aspera and posterior femur Ryan I: Tuberosity of tibia Jay Hoyme A: Extends knee

Arthritis of Hip - Tensor fasciae latae, Vastus lateralis

Rapid Extension (problems with) - Vastus Medialis, Rectus Femoris, Vastus Lateralis.

Displaced Patella (Dancers) - Quadriceps asymmetrically tight. Classical ballet ranks above contact sports for injury.

Adductor Brevis (ad-DUCK-tur BREV-us) -Lead towards and short Adductor Longus (ad-DUCK-tur LONG-us) -Lead towards and long Gracilis (gra-SIL-iss) -Slender (The gracilis and the femoral shaft form the letter 'V')

Pectineus (PEK-tih-NEE-us) - Pubic bone (Medial to the femoral artery and considered an extension of the iliopsoas muscle)

Sartorius (sar-TOR-ee-us)
- Tailor (Longest muscle)

TrP Location – Pectineus; one inch below the femoral triangle

TrP Location – Adductor Brevis & Longus; 2 and 3 inches below the femoral triangle

TrP Location – Sartorius; find the ASIS and map out a curved line all the way down to the medial part of the knee and you will find many TrP's

TrP Location – Gracilis; use the medial side of the knee and keep going superior and then you will find many TrP's

FUN FACTS

Meralgia Paresthetica -Tensor fasciae latae or Sartorius

Appendicitis - Rectus abdominus or Psoas

Sexual Dysfunction - Piriformis, Adductors

Groin Pain - Adductors or Iliopsoas

Adductor longus - While the adductor longus, adductor magnus, adductor brevis, and pectineal muscles are all adductors of the hip, of these the adductor longus is most often injured in sports.

Pectineus Adductor brevis Adductor longus Gracilis Sartorius

Pectineus

O: Superior ramus of anterior pubis I: Between lesser

trochanter and linea aspera on posterior femur

A: Adducts, flexes and medially rotates thigh

Sartorius

O: Anterior superior

I: Proximal medial

A: Flexes, laterally

thigh. Assists with

flexion and medial

rotation of knee

rotates, and abducts

surface of tibia

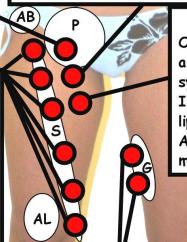
iliac spine

Adductor brevis

O: Outer surface of the inferior ramus of the pubis

I: Proximal 1/2 of the linea aspera to the less trochanter on posterior femur

A: Adduction, flexion and medial rotation of thigh



Adductor longus
O: Crest of pubis
adjacent to pubic
symphysis

I: Middle 1/2 of medial lip of linea aspera

A: Adduction, flexion and medial rotation of thigh

Gracilis

O: Inferior 1/2 of symphysis pubis

I: Medial surface of tibia inferior

to medial tibial condyle

A: Adducts thigh, flexion and medial rotation of knee

Extensor Digitorum Longus (ex-STEN-sur DIH-jih-TOR-um LONG-us) - Stretches, digits and long

Extensor Hallucis Longus (ex-STEN-sur HAL-uh-iss LONG-us) -Stretches, big toe and

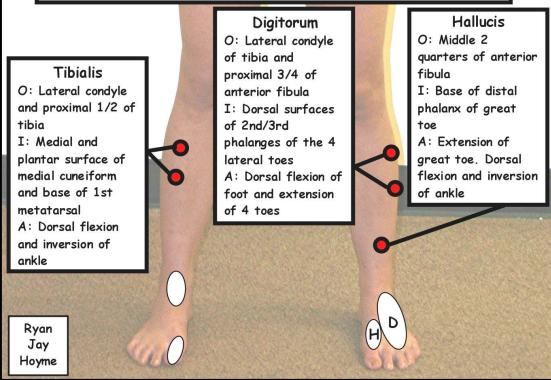
long

Tibialis Anterior (TIB-ee-AL-iss) - Related to shin bone (Weakness causes flat foot / Tightness causes high arch / prone to shin splints)

TrP Location – Tibialis Anterior; find the patella and go inferior 2-3 inches and the TrP's are just lateral to the tibia bone (Not on it)

TrP Location -

Extensor digitorum longus; it is in between the tibialis anterior and the peroneus muscles (About same area as Tibialis anterior
Extensor digitorum longus
Extensor hallucis



Tibialis anterior TrP's, but laterally ½-1 inch)

TrP Location – Extensor hallucis longus; it is in between the tibialis anterior and the peroneus muscles (Lower ½ of the shin)

FUN FACTS

Pes Cavus - Higher than normal arch in the foot and could be a tight Tibialis Anterior muscle.

Pes Planus - Is flat feet, not enough of an arch, weakness in the soleus-gastroc group or tibialis anterior.

Shin Splints - Overly tight (hypertonic) Tibialis anterior muscle & could also be Extensor hallucis longus, Extensor digitorum longus, or Tibialis posterior. Injuries that result in small tears in the fibers of these muscles probably cause the pain known as shin splints.

Inverted foot or clubfoot - tibialis anterior muscle could be one of the causes.

Hammertoes - Are caused by tight extensor digitorum longus.

Bunions - Can be caused by tightened extensor hallucis longus.

Dorsiflexor weakness - Foot slaps down when walking, weakness in the dorsi-flexor muscles.