

## Self-Massage



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Maintaining optimal muscle condition is important for day-to-day life, as well as for preventing injuries and enhancing sporting performance. One very effective way of maintaining optimal muscle condition is through the use of self-massage.

Self-massage uses different techniques and tools to apply massage to muscle groups and can be modified for individual needs and sporting requirements. Some of the benefits believed to result from self-massage include reducing muscle fatigue, tightness and imbalance, aiding recovery and gaining muscle awareness.

By using self-massage techniques regularly, you will become familiar with how your muscles normally feel and will learn to recognise any changes (for example, an increase in tightness or pain). This will assist you in preventing injuries by enabling you to seek professional treatment at the first sign of change.

### When to use Self-Massage

Self-massage can be beneficial:

- during times of heavy or increased training
- on recovery days
- when travelling
- pre-competition — but only once you are familiar with the techniques and your own body's response to self-massage
- post-competition

As a general rule, treating one body area every day/night is a good way to use self-massage (for example, gluteals Monday night, hamstrings Tuesday night, etc.).

### When NOT to use self-massage

Self-massage is not recommended when you have:

- an acute injury (injury that has occurred/recurred in the last 24 hours)
- inflammation (swelling)
- pain, bruising or corks
- skin conditions including rashes, cuts, open wounds, blisters or ulcers
- fever, infections and illness.

***NOTE: Should you have any pre-existing musculoskeletal injuries, it is recommended that you consult a health professional before performing self-massage.***



## Techniques

Direct movement with pressure is a more specific technique that will allow you to concentrate on individual areas of tightness, as well as the whole muscle or muscle group.

(Refer to the practical section of this booklet for images demonstrating how to shorten and lengthen specific muscle groups.)

### Apply this technique as follows:

1. Gently shorten the muscle group. This is only a mild contraction.
2. Using your fingers, thumbs, elbows or forearms, apply firm pressure to the muscle. Direct the pressure down into the muscle and towards the joint above the area (For example, when working on the forearm, direct the pressure towards the elbow).
3. Slowly lengthen the muscle while maintaining the pressure.
4. Re-apply until the area has relaxed or feels looser, and then apply to the whole muscle.



**Tennis balls** can be used to treat focal points of tenderness known as 'trigger points'. Trigger points occur when a muscle develops a taut band. The tightest point in this band is the trigger point. A trigger point may cause pain in the area in which it is located, or it may refer pain to other areas.

Approximate trigger point locations are marked with an 'x' on the body charts found in the practical section of this booklet. The shaded areas depict the possible referral zones.

After locating an area of tenderness or a trigger point, place the tennis ball on the point and allow your body weight to relax onto it for 10–20 s.

You should feel the sensations gradually dissipate, thereby helping to deactivate the trigger point and relieve the pain and tightness caused by it. Remember that some muscle groups will have several trigger points on which to work.

When working areas such as the back, both sides of the spine can be worked simultaneously by taping two tennis balls together (double tennis balls) as shown below. (Refer to the practical section of this booklet for directions on using a double tennis ball.)



**Foam rollers** are another tool that can be useful for self-massage.

You can massage broad areas of the body by rolling back and forth over the roller. Alternatively, hold your position on the roller while flexing and extending (bending and straightening) the joint below the roller (for example, place the roller at the lower end of the iliotibial band (ITB) then flex and extend your knee).

(See the practical section for images of this exercise.)

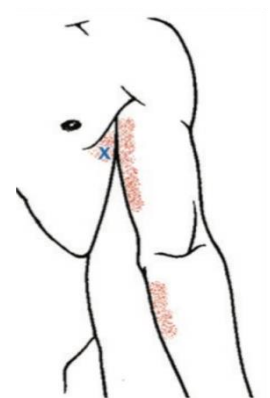
- \* Foam rollers are also useful for stretching over.
- \* Foam rollers come in two types, half and full as depicted below.
- \* 'Pool noodles' can also be cut into smaller lengths and used as full foam rollers.



**Example:**

### **Latissimus Rollout – stretch- self-massage**

With your arm by your side, pinch the belly of the latissimus dorsi muscle between your thumb and fingers. Then raise your arm slowly to lengthen the muscle. Repeat three times.

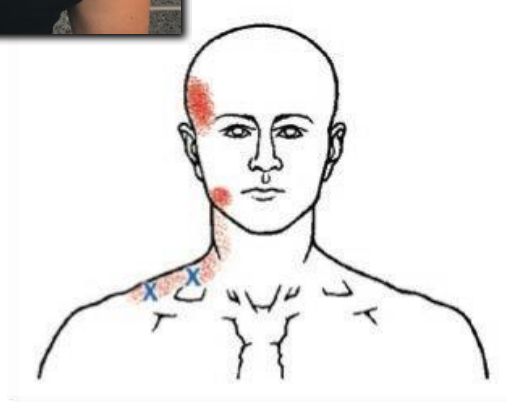
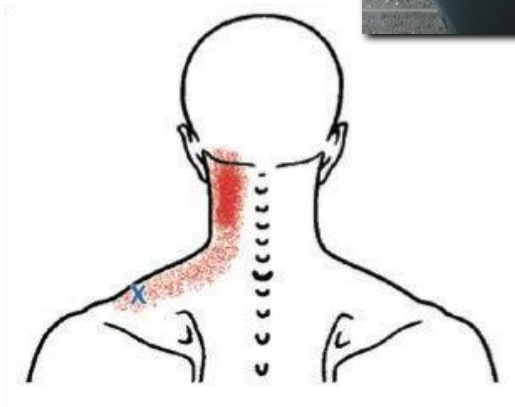


## Neck: Upper Trapezius

The upper trapezius muscle runs from the top of your neck to the outer point of your shoulder. Shorten this muscle by taking your ear towards your shoulder on the side in which you will be working.

For example, right ear to right shoulder.

Pinch the muscle between your thumb and fingers, or apply downward pressure into the muscle using your fingers. Then slowly take your head to the other side (left ear to left shoulder)







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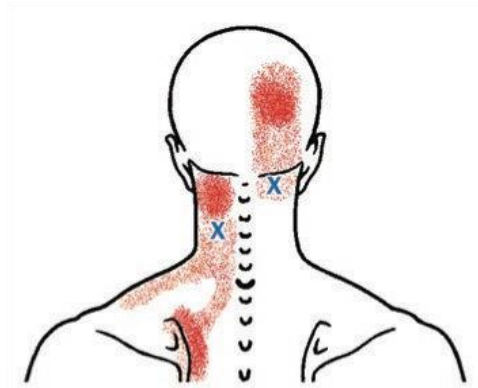
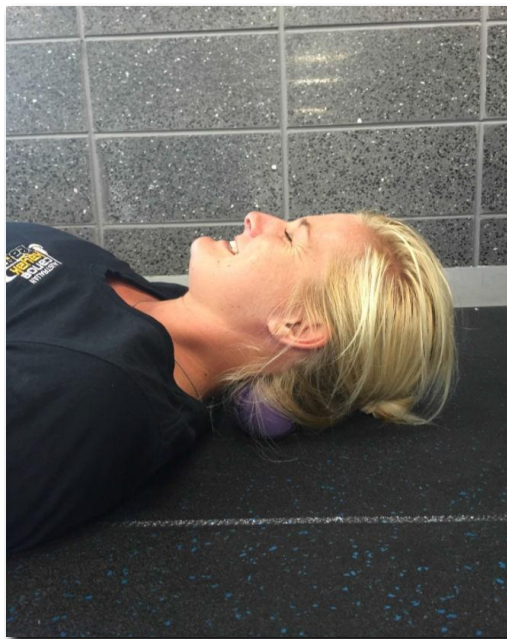


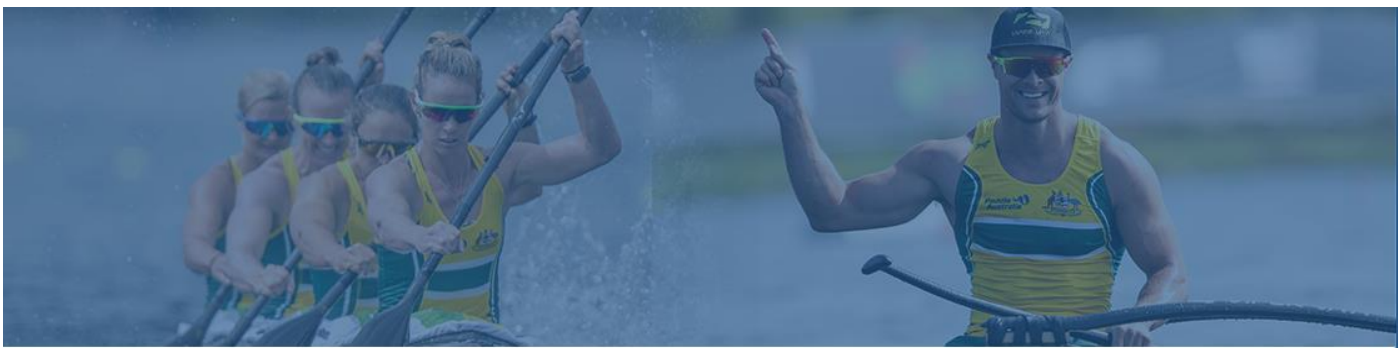
## Neck: Upper Cervical Muscles

Interlock the fingers of both hands and place them behind your head. Your thumbs should be free. Make large circular motions with your thumbs just below the base of your skull. continue this action down your neck.

If you locate a trigger point or an area of tenderness, press into the area, hold for 10–20 s, then move on.

Alternatively, lie on your back and place double tennis balls just below the base of your skull. Rest your body weight over the tennis balls until you feel the muscles relax or any trigger points ease.

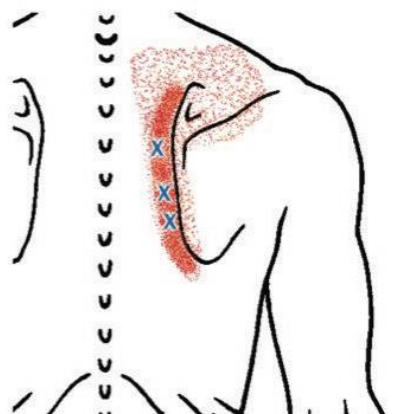
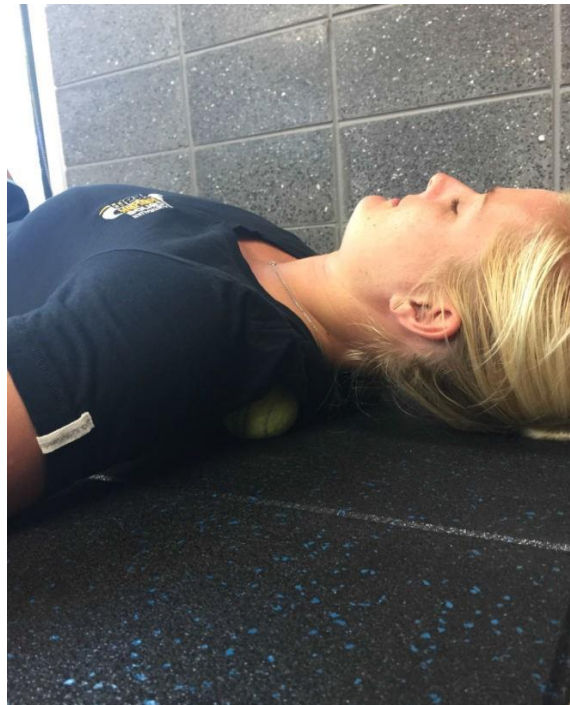




## Shoulders: Rhomboids

Lie on your back, place a tennis ball between your spine and your scapula (shoulder blade). Lift the arm on the same side as the ball, and move it slowly across your body and back again.

Repeat three times, then move the ball to the next point of discomfort and repeat the technique.

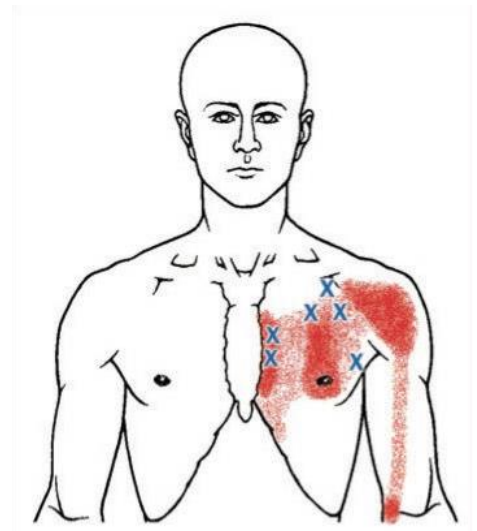




## Pectoralis



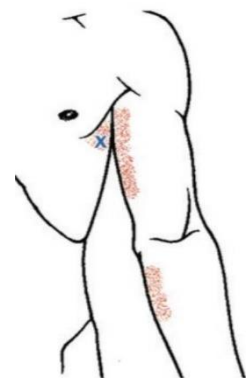
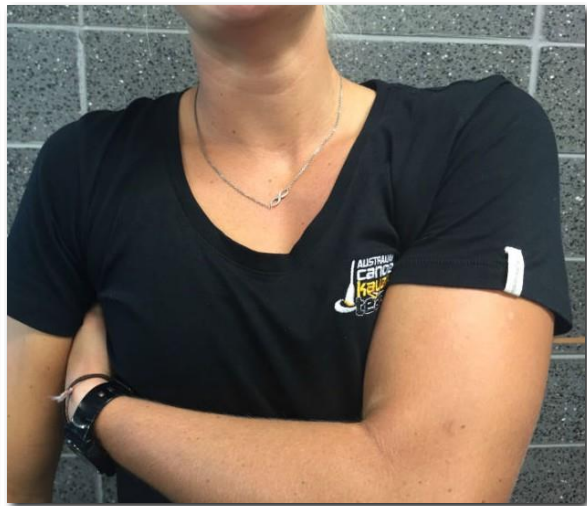
With your arms by your side, pink the lateral/outside border of the pectoral muscle with your thumb and fingers, or press firmly into the muscle with your fingers. Then raise and rotate your arm as depicted below. Change your hand position and repeat until you have worked through the full muscle.





## Latissimus Dorsi

With your arm by your side, pinch the belly of the latissimus dorsi muscle between your thumb and fingers. Then raise your arm slowly to lengthen the muscle. Repeat three times.

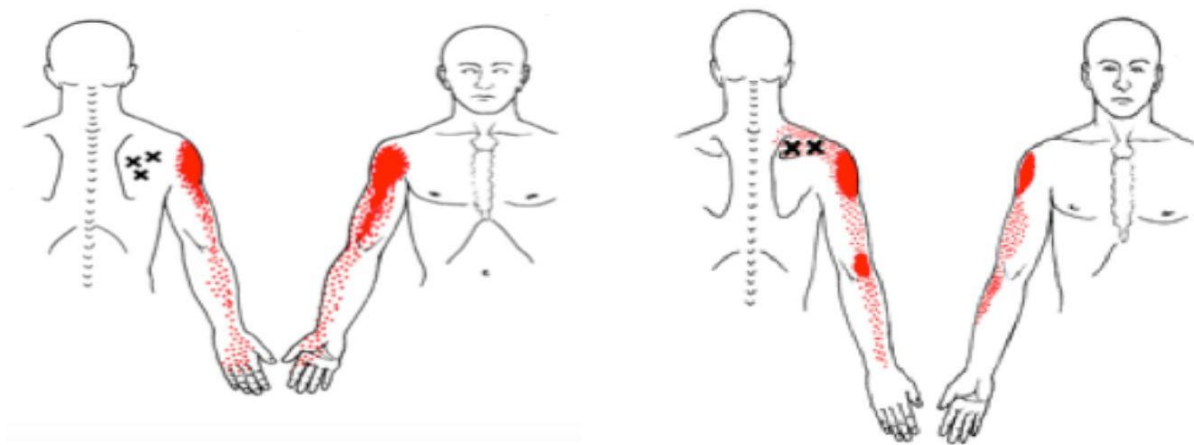






## Posterior Cuff

Lie on your back with the tennis ball under your shoulder blade, start with it close to the inside edge, nearest to the spine. Use body movement to move the ball around under the shoulder blade to find the sore points or points with referral. As you come towards the outside of the shoulder blade you may need to rotate your body towards the side to keep pressure on the ball.





## Spine: Thoracic Spine Muscles

The thoracic area extends from the top of your shoulders to the top of your lower back. Lying on your back, place a tennis ball in the area of discomfort, resting your body weight over the tennis ball as depicted below.

Alternatively, you can place double tennis balls either side of your spine, lean up against a wall and bend and straighten your knees so that the tennis balls run up and down your back.



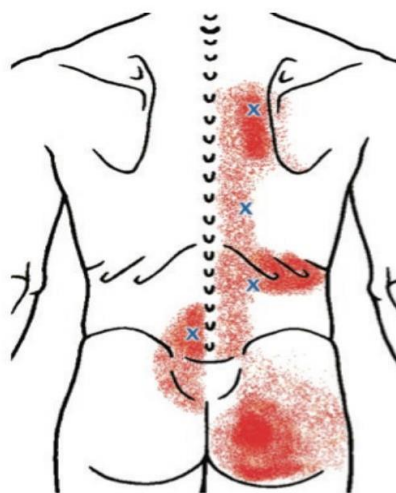




## Spine: Lumbar Spine Muscles

Rest on your elbows and place double tennis balls at the base of your spine. The balls will be resting on the erector spinae muscle group that runs parallel to your spine on either side. Hold in one position, or rock back and forth moving the ball up and down the muscles.

Alternatively, work through the lower back, both close to and away from the spine using a single tennis ball. Gently moving your legs from side to side (knees bent) will assist you in finding the exact trigger points in your quadratus lumborum muscle.

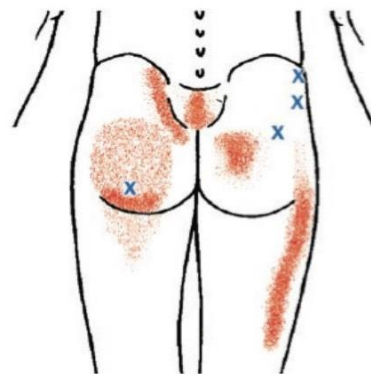






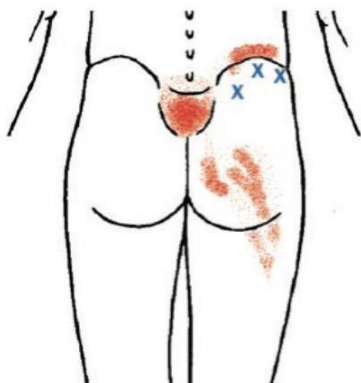
## Hips and Legs: Gluteus maximus, gluteus minimum and Piriformes

Lie on your back, supporting yourself by resting on your elbows, with one leg crossed over the other. Place a tennis ball under your gluteals.



### Gluteus medius

Lying on the side to be treated, place a tennis ball underneath the hip. Use your top leg for support and balance.



*\* This exercise should not cause pain or numbness down the thigh. This indicates sciatic nerve compression and should be avoided.*



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## Hips and Legs: Quadriceps and Adductors

Position the foam roller under the front of your thigh just above the knee cap, with your weight supported partially through your elbows and opposite leg. Roll up along the quadriceps. When you find a sore spot hold that position while you bend and straighten your knee 5 times.



When you have finished rolling the quadricep roll your body further onto your opposite leg, so the roller is under your inner thigh. Roll the roller back and forth along the length of your adductors by slowly moving your hips to the left and right





## Hamstring



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Lie on your back and lift one leg to 90° at the hip and the knee. Keep your other leg lying flat on the ground. Place the fingers of both hands into the belly of the hamstring on the bent leg. Maintaining the same pressure with your fingers, slowly straighten your knee.

Repeat these three times, and then move to other points of tightness.



Sit on a chair or table so that your leg can swing freely. Place a tennis ball under one hamstring. Start at the top of the hamstring then straighten your leg slowly three times. Move the tennis ball an inch closer to the knee and repeat.

Repeat until the whole hamstring has been treated.





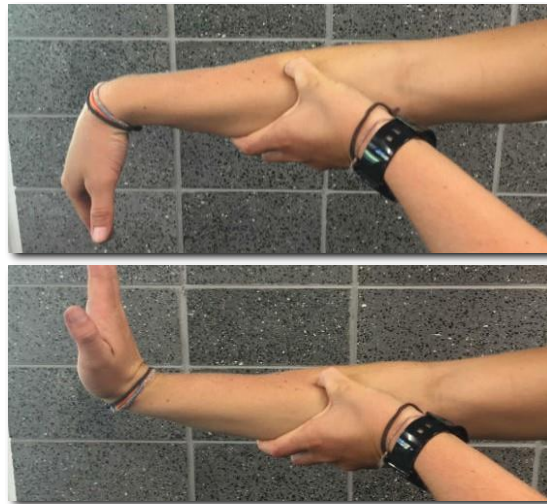
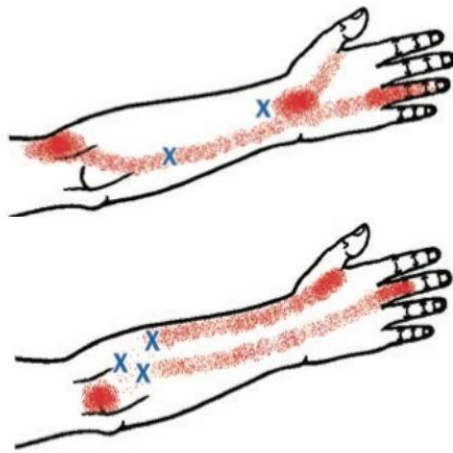
## Forearms: Forearm Extensors



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The forearm extensors are the muscles on the front of your arm that extend (pull back) your wrist and fingers. To shorten this muscle group, extend your wrist and hand upward. Using your other thumb, apply firm pressure into the extensor muscles and towards your elbow. Slowly bend your wrist down until your fingers are pointing to the ground. Repeat through the whole length of the muscle group.



## Forearm: Forearm Flexors

The forearm flexors are the muscles on the inside of your forearm that flex (pull forward) your wrist and fingers. To shorten this muscle group, close your hand and flex your wrist. Using your other thumb, apply firm pressure into the flexor muscles. Slowly extend your wrist and open your fingers so the muscles are in a lengthened position. Repeat through the full length of the muscle group.

