

Neck and shoulder pain

Exercises to reduce neck tension and stiffness

NECK OR SHOULDERS aching during or after a ride? It's important to address the underlying cause. Physio and osteopath Lewis Wood explains

ight, shortened neck quickly fatigue when the head is held forward for a long time. muscles can cause not only pain and Starting a ride with tight and discomfort in your shortened neck or upper shoulder neck, but also tension muscles doesn't bode well. headaches, numbness These issues are exacerbated in your arms and jaw pain. In fact, by slouching at work or when problems of this type can even driving, sitting poorly on the couch impair your breathing and lead to or a poor sleeping posture. While trapped nerves. The position of cycling, gravity pulls on your head your neck when riding is vital for relentlessly, with your neck taking good posture and functional use the strain. It's crucial then that for the rest of your spine. your posture is spot-on. When we One of the most common lose the proper curvature of the postural problems is a forward cervical and lumbar curves, we head posture (FHP), which can lose as much as 50 per cent of our reduce your lung capacity by up spinal strength. to 30 per cent, by impeding the expansion of the lungs. For every What causes neck stiffness? inch too far forward the neck is The position of your neck is vitally positioned, the head effectively important to the curves in other gains 4.5kg in terms of the forces areas of your spine; it is a 'central it applies on the neck. A mediumkey point' of movement. Most sized male head weighs around "Incorrect posture can 7.5kg, so the implications are reduce lung capacity" obvious. This is why our deep neck muscles THE EXPERT Lewis Wood Sports physiotherapist (BSc Hons, HCPC, MCSP), osteopath (MSc Hons, GOsC, BOA), medical acupuncturist (MAACP, CGIMS), clinical pilates instructor, sports massage therapist (MSMA), and a member of Brighton Mitre bodyalignclinic.com

FITNESS Injury prevention **FITNESS** Injury prevention ...

therapists and instructors attempt to correct postural problems by altering the back, shoulders or pelvis. However, proper alignment of the head is integral to the correct function of the whole spine.

During prolonged sitting, the shoulders soon become rounded as the chest drops. This results in the chin moving forwards. In this position, the trapezius (the main supporting muscle) shortens and the upper neck joints become compressed. As muscles fatique. nodules or knots form, which can cause pain that may be referred to different areas of the upper back, neck or even face. Once a tender point reaches a certain threshold, referred pain will arise and spread to common areas of discomfort. There are four primary trigger points in the trapezius muscle, where the motor nerve activates the muscle.

There is an increase in discomfort and pain, because proprioceptive signals from your upper neck (first four vertebrae) are a major stimulus point for pain and the body's controlling chemicals, such as endorphins. High levels of stress or anxiety are another cause; it's more than a cliché to point out that many people appear to carry their worries in their shoulders.

Our main supporting neck muscle, the trapezius, is supplied by a cranial nerve, but our other shoulder muscles are supplied by a motor nerve. This may explain why the trapezius muscle instantly tightens when we experience high levels of emotional stress, whereas other shoulder muscles only tighten after prolonged use.

What is the cervical spine?

The cervical spine is the upper section of the spine (the neck), comprised of seven vertebral segments. Its primary function is to allow movement of your head and therefore allows fine movements for vision and coordination. The cervical spine is delicate and built for flexibility in all directions, yet its wellengineered structure protects the

FORWARD HEAD POSTURE/ **SLUMPED POSTURE** LACK OF REGULAR **NECK EXERCISES** SHORTENED POSTURAL **NECK MUSCLES WEAK DEEP NECK FLEXORS UPPER CROSSED** SYNDROME **STRESS AND ANXIETY** COMMON CAUSES OF NECK PAIN **NECK MUSCLE STRAIN MYOFASCIAL** TRIGGER POINTS **SCAPULA DYSKINESIS CERVICAL** (SHOULDER BLADE **FACET JOINT** WINGING) **SYNDROME ACUTE TORTICOLLIS**

(WRY NECK)

spinal cord, existing nerves and vertebral arteries.

A neck joint is known as a facet ioint and there is a pair of facet joints at each of the seven neck vertebrae — almost like having two spines in parallel. That's how the segments in your neck allow flexibility but also strength, simultaneously, rather like the links in a bike chain. If one chain link becomes stuck, it needs to be loosened. If a facet joint becomes stiff or immobile, the result is pain and inflammation. This is described as a cervical facet joint strain and is a common cause of neck pain.

Other well-known causes of neck pain

You may need to see a medical professional to correctly identify the exact cause of your neck/ spine pain or discomfort, but these are common causes.

- Ligamentous sprain
- Whiplash injury
- Traumatic vertebral fracture
- Cervical rib anomaly
- Cervical spondylosis (degenerative neck arthritis)
- Cervical stenosis (narrowing of the spinal cord canal)
- Cervical intervertebral disc bulge/prolapse



a mechanical problem, myofascial massage and trigger-point release therapy may help. Hardened muscle or a protective muscle spasm or muscle problem. I'd recommend that you see a physiotherapist or osteopath, who'll be able to confirm whether there is a deeper, underlying problem causing your neck discomfort.



Self-help exercises to lessen neck tension

If you suffer with neck stiffness after long rides, try incorporating these four simple, time-efficient exercises into your stretching regime



Hold for 30sec and repeat 3-4 times.







UPPER TRAPEZIUS

STRENGTHEN NECK FLEXORS Tuck in chin. slowly lift head and hold for







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NECK

MASSAGE

Use a massage stick roller to

relax for neck

each side.

muscle — 2min