Relieving Back TIGHTNESS

You can address some types of back pain in your horse with a safe, simple sportsmassage technique.

By Jo-Ann Wilson with Sandra Cooke ■ Photos by Jim Leiby

ow do you feel and behave when you get out of bed in the morning with sight or painful back muscles? Chances are you move stiffly or tentatively and your range of motion is restricted. Until you get relief, you don't is restricted. Until you get relief, you don't know your usual enthusiasm for normal tasks. It's much the same for your horse when his back muscles are stiff or huntil. He may

- flinch or sink away when you're saddling him:
- travel with his head elevated and/or his back hollowed:
- traver with his head elevated and/or his back h
 canter less freely than usual;
- experience a decrease in coordinated power;
 trail his hind end rather than stepping under himself;
- immo flat rather than with a rounded bascule:
- jump flat rather than with a rounded bascule;
 drift sideways, either on the flat or over jumps:
- resist lateral work.

One thing your horse will not do as a response to back pain or tightness, by the way, is buck. He needs to round or flex his back to buck, whereas his normal reaction to pain and tightness in his back is to move away from the discomfort by hollowine.



A horse whose back is tight or sore tends to brace with his head and neck and hollow his back behind the saddle, as Tosha Zubrisky's horse is demonstrating here. His hind legs are trailing at the canter instead of stepping correctly up under his center of gravity.

What's Hurting

The muscles whose lightness is frequently a cause of these signs are the lengissimus densi-the longest and largest muscles in your horse's body and a powerful extensor of his spine—and the lengissimus consumer, which he below the lengissimus daria across the ribs on each side and are important in lateral flexion of the spine and in breathing (see photos page 66 for the location of these muscles).

As part of understanding how tightness develops in these and other muscles, let's

take a quick look at how muscles work. Every muscle has two ends, each comnected to bone by a tendon. One end is the anchor and the bone to which it is connected doesn't move. The other end is connected to a bone that moves when the muscle is used. The middle part of the muscle, which does the work of moving the bone, is called the belly. It's composed



has its own blood supply. When a muscle is working normally, it tightens, then immediately relaxes or releases. Muscle tightness occurs when the muscle doesn't release as it should. When a muscle becomes chronically tight, the fibers lie closer together. This constricts the flow of blood through the muscle belly, somewhat like stepping on a garden hose reduces the flow of water. The muscle operates less effectively when it's tight. and it may be painful.

All muscles work in pairs of opposites: As one muscle contracts, its opposite releases. When a muscle is tight, the release process of the muscle is affected. The back muscles extend the horse's

to allow for the spinal flexion your horse for a bascule over a fence or a nice collected canter. Tightness in the longissimus costarum will also affect your horse's abil ity to bend around your inside leg.

What Causes It

- # the strain and exertion of repetitive schooling, such as working much more on one canter lead than the other:
- footing that is very deep or too hard:
- an ill-fitting or out-of-balance saddle: a very imbalanced rider (whose horse

- - poor saddle placement (for instance. too far up on the withers, which drives the cantle into the back muscles):
 - too many pads under a correctly fitted saddle. Contrary to some riders' belief, this does not reduce pressure on the horse's back but is more like cramming

two pairs of socks inside your shoes. Tight back muscles can also signal a deeper problem such as hock or ankle

issues, weak stifles or ligament problems. How can you know whether you're dealing with simple muscle tightness or with done the massage and exercise sequence



barse's back and flexes his spine laterally.

I'll describe on the next two pages a couple of times, you need to involve your veterinarian. (As a general rule of thumb. in my 20 years of practice as a massage therapist, if I find persistent tightness in the forward area of a horse's back, it may indicate a deeper problem in his front end; if

the muscles remain tight in the area near his haunches even after massage, there may be a bigger problem in his hind end)

Palpatina for Tightness When the training or performance

problems I've described suggest your

ABOVE: The longissimus costarum, just below the longissimus dorsi, extends across the horse's ribs. This muscle assists in extending the spine and in flexing it laterally.

horse may have tightness in his back muscles, you can use palpation-simple hand pressure on the muscles-to get more information. You'll palpate the longissimus dorsi and

lonaissimus costarum muscles on both sides of your horse's spine. Whichever side you're working on, position your horse so that the hind foot on that side is slightly to the rear of the foot on the opposite side. This configures his muscles to give you the best feel for what's going on

Starting near his withers where the longissimus dorsi begins, place the palm or heel of your hand on the muscle, push in gently, then release. Keep your elbow bent during this motion, which needs to be soft, yet firm. Work your way down the muscle, moving slowly and calmly If the tissue rebounds as you release the pressure and fills your hand, the muscle is not tight. On the other hand, if the tissue feels unvielding like a board and does not rebound from pressure, the muscle . is tight. When you palpate tight muscle tissue, your horse may move away from you because his instinct is to move away from pain. If the tightness is severe, he may hollow his back when you palpate an especially tight area

Common palpation errors to avoid: running a hard object (such as a boof pick or ball-point pen) down the length

Saddle Check







Palpate the muscle using the heel and polm of your hand softly yet firmly, feeling for whether the muscle fissue has "give" and springs back from pressure or remains inflexible and boardlike.



To massage effectively, stand on a diagonal to the horse as I'm doing here. When working with my right hand I position my left leg behind me so that I can push into my right hand.

of his back;

■ grabbing at the muscle with your fingers;
■ jabbing or poking at the muscle with

your fingertips.

All of these incorrect palpations stimulate sensitive nerve endings on your horse's

skin surface, causing him to flinch away whether the muscle tissue is tight or not. After palpating the langissimus daysi,

After palpating the longissimus dorsi, follow the same procedure with the longissimus costarum.

Massaging for Relief

If palpation suggests that one or both sets of these back muscles are tight, you can safely use a basic Wiston-Meagher Sportsmassage technique—compression—as a possible way of alleviating the problem. This is a technique anyone can use without extensive training.

Compressions are a way to gently spread the constricted muscle fibers, increasing the space between them for improved blood flow and gradually loosening the muscle. You perform them with an open hand, using the heel and palm for pressure while your fingers



Poking or grabbing the muscle with your fingers stimulates the horse's superficial nerve endings, causing him to flinch whether the muscle is fight or not.

remain soft and extended but are not pressed into the muscle.

Begin with the languagement darva at the forward most point where it's accessible, just behind the withers. Position youself for stability as I'm showing in the photo at the top right of this page, so that your energy is directed from your foot up through your trunk and arm to your massigning hand. Place the heel of your hand on the muscle and press straight in and deep, your hors's skeletion becomes the

backdrop that enables the compression to spread the muscle fibers.

Using moderate pressure, apply about seven compressions every five seconds in a rhythmical puring; action, gradually working your way down the length of muscle. Repeat the seven compression sequence a few times in one spot, then move down. When you areash the point where the lengthsenses down when you treat the point where the lengthsenses does and the gluteal muscles of the hind end come together, keep aging! The back muscles and the second properties of the property of the point of the point



When using the compression technique on the langissimus dorsi, I press directly in toward the bone, beginning just behind the withers and continuing along the entire length of the muscle.

minutes of cartier work in a streetly but connected frame frost flooping on the forehandh in both directions. This kind of carner encourages your horse's back mucles to lengthen and loosen. It's the equine equivalent of the familiar back streetling exercise you may use for yourself on those mornings when your back feels light: bringing a knee to your chest. To see photos of this, go to usuw/harkadi/harmant/slag.com.

If your horse's problem is simple backmuscle tightness, you should see some improvement after the first massage/exercise session. You may need to repeat this another time or two for the most benefit.

The compression technique is useful when your hone shows signs of back-muscle lightness, and if you do it on a regular basis when no symptoms are present, it may prevent injuries from occurring. If the issueld that prompted you to try massage continue to be noticeable, of course, it's time to contact your verterination. 2

Clinician author researcher and teacher Io-Ann Wilson is a nationally certified and licensed massage therapist. Io-Ann recently produced an educational DVD. A Course in Fauine Sportsmassage (available at www.HorseBooksEtc.com) and has have selected to present educational seminars titled "Sportsmassage for the World's Largest Athlete" at the 2010 Alltech FEI World Equestrian Cornes in Kontucky. She may enorty thousands for both horses and riders of the US Eventina Team practice includes horses of all disciplines and levels. She is director of Wilson and Mozaher Sportstherapy, a program that trains professional therapists in equine sportsmassage and offers workshow for horse owners; www.sports massageinc.com.



muscles of the haunches work together take you about 20 minutes. and massaging both will do a more thor-

Follow Up With Canter
To maximize the benefits of massaging
his back muscles, ride your horse after
you're done and be sure to include several

and massaging both will do a more thorough job. Repeat the compressions on the longissimus costanum, then move to the other side. Check that your stance is correct and start again. Altogether, the massage will Mountain Farm in Camden Maine, for hosting the pho shoot and Tosha Zubrisky fr demonstrating. For more or Tosha, visit www.Practical HorsemanMaa.com.