

LATERAL HAMSTRING ORIGIN SYNDROME

The *Lateral Hamstring Origin Syndrome* is another of those singular syndromes that has not (to the author's knowledge) been reported in any of the medical or paramedical literature available. It was named for the peculiar position of the zone of high skin resistance pattern associated with it (illustrated below), which is in near proximity to the originating lateral hamstring tendon.

Under scrutiny, the *Lateral Hamstring Origin Syndrome* continues to be peculiar. The pattern associated with it follows the typical sciatic pattern down the leg, and additionally refers pain up into the low back. This may be

due to the coincidental placement of the inflamed zone over the sciatic nerve as it laterally descends the thigh, and associated interstitial pressure applied to the nerve just under it. Typically, those who suffer from this syndrome also tend to suffer from the *Piriformis Syndrome* (if it does not occur simultaneously) before or after its own appearance. As in the *Piriformis Syndrome*, the most common source of injury seems to be prolonged direct pressure into the area. A hard chair seat has been suggested as the most common vector of injury. Some minor swelling may be observed within and around the inflamed zone.



The high skin resistance pattern commonly associated with inflammation of the Lateral Hamstring Origin Syndrome

Treatment

Treatment of the *hamstring origin syndrome* is also peculiar in that the key to successful treatment is mechanical vibration of the inflamed zone. Any electrical stimulation of the inflamed zone seems to further irritate and increase the level of the patient's perception of pain. Treatment should be directed at eliminating any inflammation and adhesions that may be present.

Application:

- Icepack the inflamed zone for 10 minutes.
- Manipulate the soft tissues in and around the involved inflamed zone to eliminate any adhesions that may be present.
- Preset an ultrasound unit to deliver a 1 MHz pulsed waveform, at 1.5 W/cm². Ultrasound the inflamed zone, utilizing an effective non-steroidal anti-inflammatory as a coupling agent, for 6 minutes.
- Vibrate the inflamed zone for 2 minutes.
- Cold laser the inflamed zone for 2 to 6 minutes. This is performed to denature or destroy **all** the remaining inflammatories.

Avoid electrical stimulation of the inflamed zone altogether. Clinical experience has proven, without doubt, that in the case of this syndrome, both medium frequency and wide-pulsed electrical stimulation significantly increases the patient's level of pain. The pain may, in fact, be worse than it was before treatment.

Successful treatment may take two or three sessions.

Post Treatment Suggestions:

Instruct the patient to avoid direct pressure into the inflamed zone, especially for prolonged periods.

It would also be helpful if the patient could mechanically vibrate the inflamed zone, with either a hand vibrator or by sitting on a padded foot vibrator, for 2 minutes, twice daily.

Trigger Points

The following trigger point formations may, singly or in combination, imitate or contribute to the pain associated with the *Lateral Hamstring Origin Syndrome*: Multifidus (S4), Longissimus thoracis (L1), Longissimus thoracis (T10-T11), Multifidus (L2-L3), Multifidus (S1-S2), Iliocostalis lumborum (L1), Caudal (lower) rectus abdominis, Gluteus medius, Gluteus minimus, Adductor longus, Biceps femoris, Vastus medialis, Gastrocnemius, Anterior tibialis, Long toe extensors, Soleus, Peroneus longus, Short toe extensors, and Abductor hallucis.