

Education Series

PAIN IN GOLF LOWER BACK

Causes and Cures

Understanding how to manage and prevent www.fitforegolf.com golf related low back pain.

FIT foreGOL PAIN IN GOLF LOWER BACK

About this Brochure

decreasing stress on your spine. A golf specific exercise and research scientists to improve your swing while and drills designed by golf professionals, physical therapists club (e.g. bending over, transporting your clubs, etc.). minimizing stress on your lower back when not swinging a stress on the lower back. This is followed by special tips for into 3 parts. The first explains how the golf swing creates avoid golf-related lower back pain. The brochure is divided The purpose of this brochure is to educate golfers on how to local FITforeGOLFTM Affiliate for details) found in the POWER UP Your Golf Game brochure (ask your program to improve the stomach and back muscles can be The final part of the brochure outlines other important tips

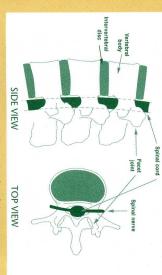
Low back pain is the #1 problem among recreational and professional golfers

Stress to the Lower Back

Injuries to the low back account for the largest proportion of development of low back pain (LBP) in recreational golfers has golf ailments, especially amongst male players. The been attributed to poor swing mechanics, excessive practice

and poor physical conditioning.

intervertebral disc and facet joints. Injury to these structures car more likely to be injured. The main structures affected are the **DOUBLE** the safety standards set by occupational health experts produced on the low back during the golf swing motion are considerable stress on the lower back. In fact some of the forces The bending and twisting nature of the golf swing creates side (right side of a right handed player) of the lower back is for industrial workers. Recent research has shown that the trai result in pressure on the very sensitive spinal nerves.



Anatomy of the Spinal column

SET-UP FOR POWER

injury to the lower back. An athletic set-up not only increases the efficiency that

powerfully rotate through the backswing and followsmaller and more prone to injury. In order for the hips to very large and strong joints while the spinal joints are not used properly during the swing. The hip joints are Increased low back stress can occur if the hip joints are key golf muscles, such as the abdominals and hip muscles, are able to be used, but also reduces the risk of

at set-up. through, BOTH feet need to be turned out 25-30 degrees

critical for minimizing Good set-up posture is increasing low back stress. A knee set-up forces the trunk to bend muscle contractions, is no different also involves very powerful back Most of us know the importance of lower back stress bend of about 25-30 degree is ideal forward more than normal thus Keeping the knees too straight at heavy object. The golf swing, which bending the knees when lifting a

This gentle contraction protects your lower back and

MOVE when the stomach muscles contract

trunk rotation. Your swing may never be the same! downswing and follow-through thus creating powerful prepares the abdominal muscles to contract on the as you do this. The low back and pelvis SHOULD NOT an inch). You should feel your stomach muscles tense then lightly draw in your belly button about 1 cm (1/2 To do this correctly, address the ball with good posture

starting your backswing.

 A very simple way of increasing the amount of Using your Abdominal muscles in your swing

abdominal muscle activity during the golf swing is to

GENTLY tighten your abdominal muscles just before

performance and injury prevention

more effectively is very important for optimal

golf muscles in the body. Learning to use these muscles abdominal muscles makes them the most important injury. The POWER and PROTECTION offered by the abdominals helps brace the spine thus protecting it from body. In addition to rotating the trunk, contracting the USING THE RIGHT MUSCLES The abdominals are some of the strongest muscles in the

> right (right handed golfer). It is this side bend motion that During the downswing, the hips typically slide towards the

target causing the lower back to side bend or tilt to the

hips and trunk to rotate through impact is to place a golf A good drill for controlling hip slide while allowing the use a high amount of hip slide at impact. with their backs **excessively arched** (reverse "C") tend to is believed to be a prime cause of back pain amongst golfers. rotating rather than sliding the hips during the back and each hip. The purpose of this drill is to concentrate on club shaft or back of a chair immediately to the outside of Golfers using a steep swing plane and those who finish the chair or shaft. down- swings. A sliding motion would cause the outside of the hip to contact

The abdominals are the most important golf muscles in the body.

Keep the hips inside the shafts throughout the swing.

BLATTEN THE SWING PLANE

the backswing progresses.

trailing (i.e. right) elbow and the trail side of the body as set-up posture, and increased separation between the An overly steep swing plane can be caused by a slouched

finish position. One method involves "stepping through'

There are several ways in which to avoid the reverse "C"

an exaggerated hip slide at impact.

to push the hips laterally during the downswing causing on the back and down-swing. A steep swing plane tends Swing plane refers to the path the club is moved through

A drill that can be used to flatten the swing plane is to

Steep swing plane

by an excessive hip slide on the downswing. Finishing the golf swing with a relaxed upright posture is joints of the low back. An arched finish is usually caused (reverse "C") position puts excessive stress on the facet very important for reducing lower back stress. An arched

UPRIGHT FINISH POSITION

arch backwards to maintain balance. Reducing hip slide, degrees will also on the follow-through. By allowing the trailing foot (right) relaxed upright finish in a make it easier to swinging with relaxed arms and ensuring the front foot is to step forward after impact, the spine does not have to turned out 25 - 30

RACQUET BALL SELF MASSAGE

to side for 1-2 minutes (shown). Return to the start in contact with the floor, rock your knees slowly from side be about 3-4 inches apart. While keeping your shoulders under your spine at about the belt line. The balls should bent. Place a pair of racquet balls (or old tennis balls) loosen the lower back. Lie on your back with your knees The following exercise is an excellent way to massage and

should be slightly uncomfortable but NEVER painful. Repeat several times on each leg. The pressure of the balls close to your chest. Slowly lower the leg back down. chest (not shown). Use your hands to help pull your knee position. Now slowly bring one knee up towards your



Proper finish position Reverse "C" finish position

For Power)

up with about 25-30 degrees of knee bend (see Set-Up ground. Another way to flatten the swing plane is to setplane gets too steep, the head cover will fall to the cover tucked under your trail side under arm. If the swing practice taking a full backswing while keeping a head

OTHER PRECAUTIONS

In addition to the stresses caused by the swing, there are other movements or situations that may irritate your back during a round of golf.

PUSHING VERSUS PULLING YOUR CLUBS

One of the best methods for reducing stress on your back while golfing is to transport your clubs using a cart that rolls on wheels. Golfers with LBP should push rather than pull their clubs (see exception for downhill terrain). When pushing, the resistance provided by the cart can be kept closer to the body. It is also easier to keep this resistance directly in front of the body rather than to one side. Pulling the golf cart causes the body to twist slightly as the cart tends to track more to the side. NOTE: On downhill sections, it is safer to keep the cart behind rather than in front of the body.

CARRYING YOUR GOLF CLUBS

Carrying clubs has been shown to cause the spine to shrink slightly during a round of golf. Golfers with LBP should therefore be careful when choosing this method to transport their clubs. If you are going to carry, use a light-weight bag with a double shoulder strap to evenly distribute the weight. Also, lighten the load as much as possible by removing objects from your bag you rarely use (e.g. that 2-iron!).

IMPORTANT - READ THIS!

RIDING IN MOTORIZED GOLF CARTS

Golfers with LBP should be careful when riding in a motorized golf cart. Sitting is one of the worst positions for your spine, especially while driving over rough terrain, as it dramatically increases pressure on the discs in the lower back. Another problem with riding is that you don't get the warm-up and calorie burning benefits that come with walking. If you must ride, it is a good idea to be the driver as holding on to the steering wheel will give your back some support, plus you can pick the smoothest path and better anticipate the bumps.

BENDING OVER

When bending over to place or retrieve your golf ball, it is important to:

- Stand with one foot forward of the other.
 Use your golf club to support the
- weight of your upper body.
 Gently tighten your abdominal
- Bend from the knees and hips.
 Never bend over at the waist
 P
 with straight legs.



Proper technique when bending over

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