

Demonstration of product

Introduction

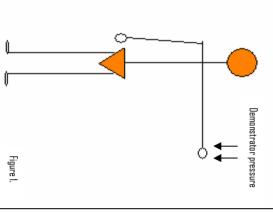
on some yellow pages as they are unstable. switches on its spinal stabilising muscles to protect the spine and prepare the body to maintain balance. It has been discovered that the body, when on uneven or rocky surface, takes on a protective role and Tai Chi uses this principle and has been found to improve balance. This can be simulated by standing

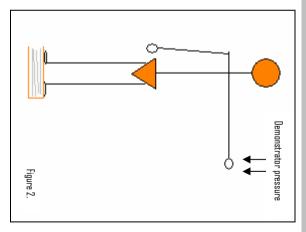
DEMONSTRATION:

Position 1: → Standing with arm to the side at 90 degrees (shoulder abduction), demonstrator pushes down at wrist – weak resistance (Fig. 1)

→ Stand on yellow pages in same position, demonstrator pushes down at wrist stronger resistance (Fig.2)







which causes the same response - these are known as Strength Soles. Using this principle a device was developed to simulate an uneven surface, a slightly angled plane

DEMONSTRATION:

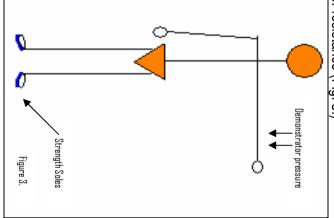
Position 1: → Standing with arm to the side at 90 degrees (shoulder abduction), demonstrator pushes down at wrist - weak resistance (Fig. 1)

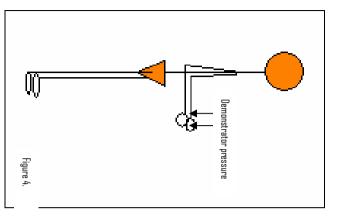
→ Standing on Strength Soles in same position, demonstrator pushes down at wrist stronger resistance (Fig. 3)

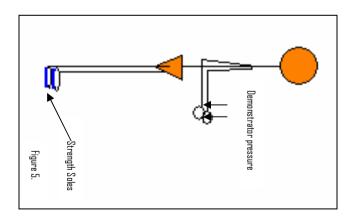
Position 2: → Standing with both arms bent to 90 degrees at elbow, elbows by side, palms up, demonstrator pushes down at wrist – weak resistance (Fig. 4)

→ Standing on Strength Soles in same position, demonstrator pushes down at wrist

stronger resistance (Fig. 5.)



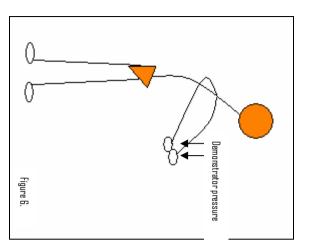


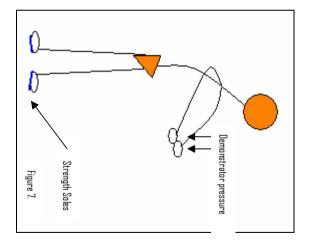


twisting to pick up your dishes or the like. wearing the Strength Soles in a common, often potentially unsafe position i.e. when bending and Obviously these positions are rarely functional positions therefore we like to demonstrate the effect of

Position 3:

- → Standing half rotated to the left and slightly bent forwards with arms out as in balance (Fig. 6.) position 2, demonstrator pushes down at wrist – weak resistance, may over-
- → Standing on Strength Soles in same position, demonstrator pushes down at wrist stronger resistance and improved balance (Fig. 7.)





point of a swing that requires the most force/strength e.g. during tennis, baseball or golf. Other test positions can target specific requirements of the client including sporting postures i.e. at the

does not occur [can be DEMONSTRATED in position 1] spine thus placing someone at risk of injury however when on the Strength Soles this "switching off" Repeated bending and twisting will "switch off" any muscles that have been turned on to protect the

spine however they do contribute and demonstrate that "something" is happening as a result of the Strength Soles however these muscles are NOT the significant muscles involved with stabilising the Some external muscles can be palpated and shown to be active when moving from off to on the

NOTE

are applied in the same manner (direction and strength). May need subject in Position 2 to hold broom handle and demonstrator pushes on that in a downward motion to illicit a comparable response Ensure demonstration is repeated exactly the same on and off the Strength Soles i.e. external forces

stabilising muscles and good coordination will show less of a response (i.e. those heavily involved with will show greater change on versus off the Strength Soles. Those subjects that have stronger spinal Subjects with weaker spinal stabilising muscles and poor coordination of contraction of these muscles Pilates, TA exercises, pelvic floor exercises etc.

Conclusion

the spinal stabilising muscles in your trunk which: These Strength Soles are creating a slightly altered surface which in turn we believe is activating

- increases back strength (and over time strengthens core stabilising muscles)
- and its ligaments and capsules protects the spine from injury as these muscles take pressure off the spine
- improves balance and reactions to challenges to balance
- may, over time, improve posture
- increases sporting strength

People most likely to benefit

- . - Ideal for people who work on their feet and who are required to complete manual work whilst in and assist in the protection your spine from potential injury or strain. this position i.e. lifting, bending or twisting as we believe that these Strength Soles will support
- ων The elderly with balance problems who still have good proprioception in their feet
- to prevent and/or reduce low back pain. People with weakened spinal stabilising muscle who need to strengthen this group of muscles

Snoes

toes) must be in contact with the Strength Sole for it to work effectively. also be slightly heeled (i.e. sloped front to back). It is important to note that the entire foot (including scientifically developed angle on which the foot rests. Enclosed, lace up shoes are ideal. Shoes can Can be worn in all types of shoes however they must not have internal arch support as this disrupts the

Orthotics?

the spinal stabilising muscles. surface of the foot or stabilise the heel as this reduces the bodies protective response of switching on The Strength Soles will not usually work with Orthotics or innersoles designed to conform to the under

How often should they be used?

benefits to be achieved. gains. It may take up to 2-6 weeks, wearing the Strength Soles daily for 6-7 hours a day for significant away however, like going to the gym and lifting weights you can not do it just once and see long term Strength Soles need to be worn regularly. Some benefits of wearing these inserts can be seen straight

Initial soreness

periods of time than what they are used to. to as often as possible to gain maximum benefit. There may also be some associated discomfort or delayed onset muscle soreness (DOMS) initially due to working muscles differently and for longer depends on initial strength of muscles however may be as short as 20-30 minutes) and slowly build up fatigue e.g. like lifting weights in the gym you can only do so many repetitions to start with. The key is to build up to wearing the Strength Soles. We recommend wearing them for short periods of time (this to start with you may initially find wearing these innersoles for long periods difficult as muscles will Unfortunately, wearing the Strength Soles may be like starting out at the gym. If you have weak muscles

Discomfort should resolve after a few days of use of the Strength Soles. If not, then you should cease wearing and seek assistance from your allied health practitioner.