Prevent Sprain Technology

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Improved return

The compression obtained with the socks favors the venous return, reducing the fatigue associated to the exercise.

venous

Improved performance

The non-slip region enhances the reaction time and prevents foot slippage within the footwear.



High stability

Specific orientation of the tension straps prevent the injury mechanism, favoring the neutral joint position.

Different pressures and elasticities stimulate cutaneous sensory receptors, thus increasing the information to the central nervous system, facilitating the activation of the muscles that actively control the injury mechanism.

High comfort and antibacterial treatment

The high quality of the finishes and raw materials used in the confection of the socks guarantee an extra comfort.

The antibacterial treatment Pureco[®] ensures the protection against bacterial infections.

Quantitative Pilot Study – Comparison of a Standard Sports Sock with the Prevent Sprain Technology Sock

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Introduction:

The need for preventive measures for ankle sprain is supported by studies that place this type of injury as the most frequent in several sports and in non-athlete populations, representing 80 to 100% of all injuries in this anatomical region in some sports (Fong 2007).

Aim: To evaluate the effect of two sports socks on postural control.

Methodology:

Sample: 2 amateur soccer (a) and basquetebol (?) players aged 21, without chronic ankle instability. Experimental procedures: 3 series of 30 seconds in unipodal support on unstable platform (Biodex Balance System), with each of the models of socks. The order in which the socks were tested was randomized.

Results: **Instability level Standard socks vs Prevent Sprain Technology** 3.5 3 2.5 2 1.5 1 0.5 0 **Overal instability** Anteroposterior Mediolateral index instability index instability index P.S.T. Standard Standard Standard 3.4 3.1 1.1 P.S.T. 1.6 1.2 0.8

Conclusion:

The Prevent Sprain Technology Socks reduced instability in the 30s unipodal support test, proving to be a promising option to ankle sprains prevention. Future studies should analyze the influence of these socks on more athletes with and without chronic ankle instability.

References:

Fong DT, Hong Y, Chan LK, Yung PS, Chan KM. A systematic review on ankle injury and ankle sprain in sports. Sports Medicine 2007;37(1):73-94



Qualitative Field Study – Comparison of a Standard Sports Sock with the Prevent Sprain Technology Sock

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Introduction:

The need for preventive measures for ankle sprain is supported by studies that place this type of injury as the most frequent in several sports and in non-athlete populations, representing 80 to 100% of all injuries in this anatomical region in some sports (Fong 2007).

Aim: Qualitatively evaluate the stability, fatigue, performance and comfort of two sports socks.

Methodology:

Sample: 20 futsal (σ) and 18 volleyball (σ **Q**) players, aged 20 - 30 **Procedures**: During a training session the athletes used one standard sports socks on one leg and the P.S.T socks on the other. Subsequently, they answered the questionnaire about the subjective sensation of stability, fatigue, performance and comfort.



Results: *the results will be presented with reference to the standard socks



