Specially Constructed Shoe Absorbs Stress

BACKGROUND

The occurrence of non-contact ACL tears is extremely high in athletes. The reduction of such tears would keep more athletes on the field participating in their respective sports.

We have designed a device that mitigates the forces associated with non-contact ACL tears. This device is integrated into the soles of athletic shoes that have been demonstrated to reduce the incidence of ACL injuries.

ADVANTAGES

Through testing, the prototype exhibited characteristics that would reduce the occurrence of ACL injuries.

Unlike knee braces that support the ACL after an injury has occurred, the shoe works to prevent injuries.

Preventing ACL injuries saves money on medical treatment and rehabilitation equipment.

This design applies the absorption of the forces directly into the shoe, which maintains the athlete’s performance and adds very little weight to the shoe itself.

Video: www.youtube.com/watch?v=UrqZPWhxoU&feature=g-crec-u