THE Evidence-Based Dancer

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The foot core system: a new paradigm for understanding intrinsic foot muscle function

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Accepted 27 February 2014



ABSTRACT

The foot is a complex structure with many articulations and multiple degrees of freedom that play an important role in static posture and dynamic activities. The evolutionary development of the arch of the foot twas coincident with the greater demands placed on the foot as humans began to run. The movement and stability of the arch is controlled by intrinsic and extinsic. The evolution addressed in relabalitation programma of the arch is controlled by intrinsic and extinsic muscles. However, the intrinsic muscles are largely ignored by clinicians and researches, As such, these muscles are selsom addressed in relabalitation programma of the space where the surface of the structure of the space where propose a novel paradign for undestranding the function of the foot. We begin with any ownering the foot states than tanining these muscles to function as they are designed, this paper, we propose a novel paradign for undestranding the function of the foot times the paradign for the space of the structure of the space were propose a novel paradign for undestranding the function of the foot times are specified to the structure of the space were required to the space where the small muscles and their relationship to the extinsic muscles. We draw the parallels between the small muscles and their relationship to the extinsic foot muscle, introducing the concept of the foot core into the assessment and treatment of the foot from the seasonment arms, and activities and the space of the spac

McKeon PO, et al. Br J Sports Med 2015;49:290. doi:10.1136/bisports-2013-092690



- a review looking at the foot core system: a new paradigm for understanding intrinsic foot muscle function
- published in 2014 by the British Journal of Sports Medicine



Takeaways

- the foot core system is made of interacting passive, active, and neural subsystems
- these provide sensory input and functional stability during static and dynamic postures
- much like the lumbo-pelvic core it is a combination of local stabilizers + global movers



Takeaways

- intrinsic muscles make up the core stabilizers and direct sensors in the active and neural subsystems
- asses control using a single leg, short foot balance test
- foot core training starts with short foot exercise and barefoot training



Takeaways

Relaxed Foot Core

Contracted Foot Core

Resting Foot Dome Length

Short Foot Manoeuvre

Shortened Foot Dome Length

Resting Foot Dome Length

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