



How do you handle foreseen unaccustomed loads?



How do you settle reactive tendons (sudden unaccustomed loads)?

HELPING ATHLETES ACHIEVE THEIR OPTIMAL PERFORMANCE NATURALLY

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What do you do when normal activities are too much load?

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How do you handle transitions to higher load activities?



How do you deal with short recovery periods?

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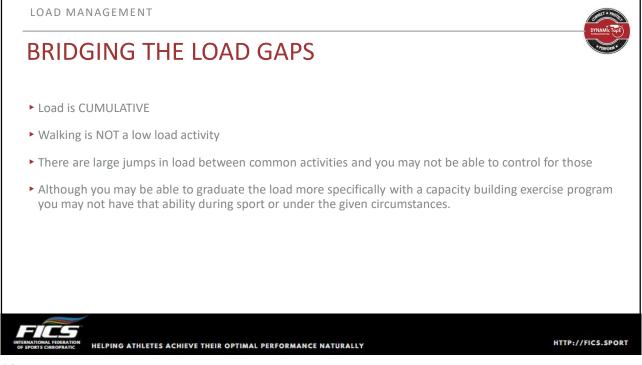
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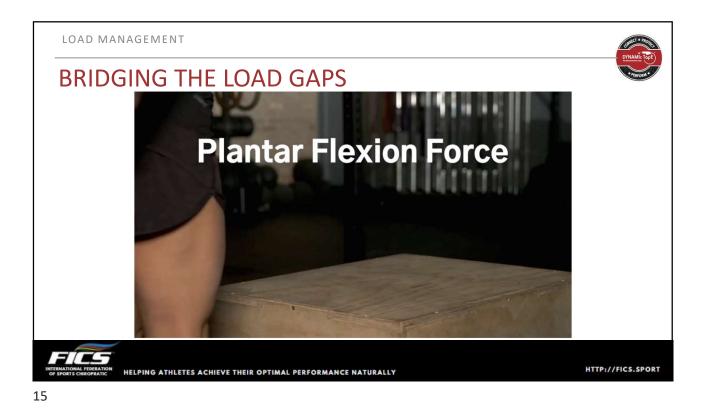
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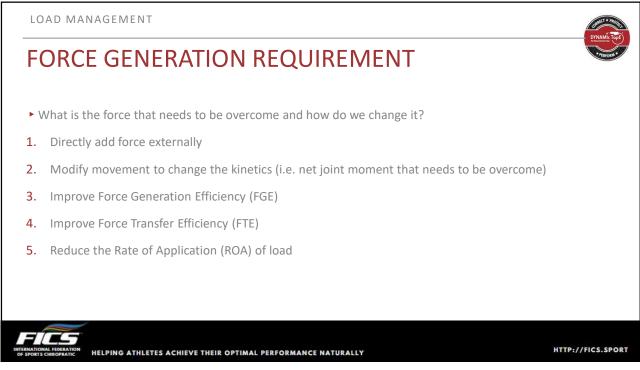


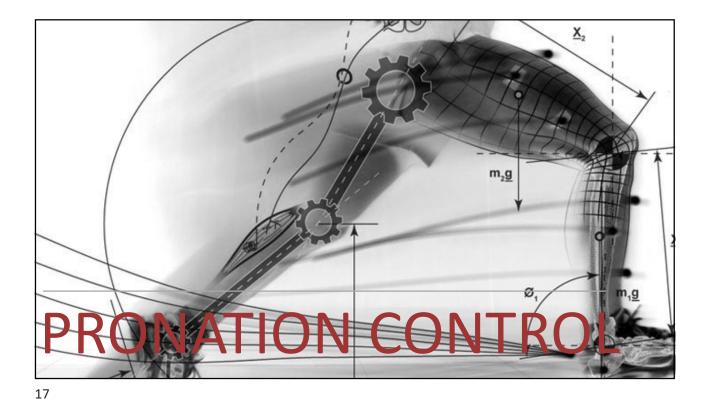
How do you get athletes through an event?

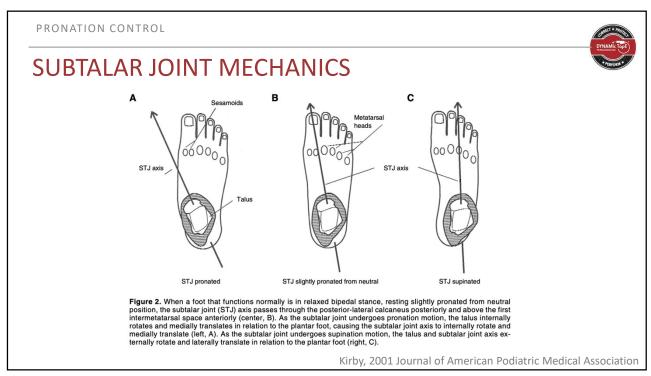
Activity	Peak Load (BW)	Load Rate (BW/s)
Standing Heel Raise (2 leg)	1.6	8.7
Walking (stance)	3.3	18.7
Hopping (2 leg)	4.8	56.3
Run (stance)	5.2	58.1
Forward Hop (1 leg)	7.3	67.1



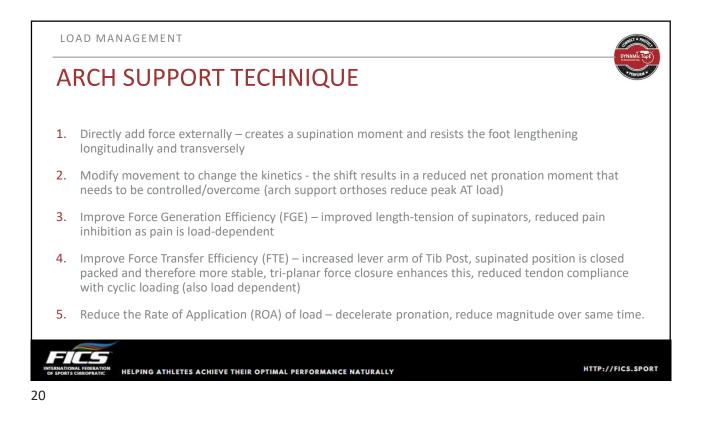






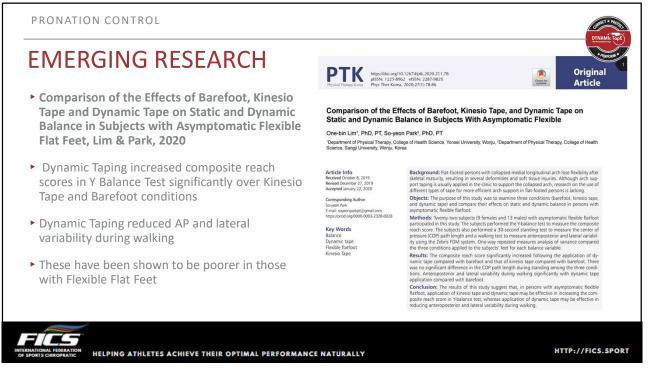






PRONATION CONTROL **EMERGING RESEARCH** The effects of Dynamic Tape for medial longitudinal arch support on navicular height and plantar pressures during running activity. **Tools** The effects of Dynamic Tape for Medial Bage, Dawn (2017) The effects of Dynamic Tape for medial longitudinal arch support on navicular height and plantar press during running activity. Undergraduate thesis, University of Chichester. Longitudinal Arch Support on Navicular Height and Plantar Pressures during Running Activity, Text Dawn Bage pdr - Submitted Version Restricted to Registered users only Available under License Creative Commons Attribution. Download (365kB) Bage, 2017 **.** Investigated changes in navicular drop in Abstract asymptomatic subjects with >10mm drop Objectives: To determine if dynamic tape (DT) effectively supports the medial longitudinal arch during running. Objectives: To determine if dynamic tape (OT) effectively supports the medial longitudinal arch during running. Methods: Tweve participants (Mena (SD) age 21(55, 9) years) who were asymptomized and exhibited a navicular drop >10mm were studied. Navicular height (NH) and plantar pressures (PP) were measured at four intervals during a single testing assiss: pre-tape, post-tape, post 20 minutes and post 30 minutes running. The participants non-dominant foot was unleaded and acted as a control. A repeated measures analysis of variance (ANOVA) was used to assess NH on tape condition and time. T-tests were used to determine whether significant (p<0.05) differences in NH occurred with taping. Results: A two-way repeated measures ANOVA) deterfilted that the unleade lag responded differently to the taped leg over time (F(3.33)=20.76, p<0.0005); DT resulted in statistically significant increases in NH pre to post-tape (p<0.0005); PT results in statistically significant increases in NH pre to post-tape to 2000; PT en to 30 minutes running (p<0.0005), Minits NH meninate significant higher than pre-tape three were statistically significant decreases in post-tape to 20 (p<0.004) and post-tape to 30 (p<0.007). There was no significant decreases highers 20 and 30 (m) 2137). No significant chapterse aware from for PE / with e more in evanemental Measurements taken, pre, post, after 20 minutes of running and after 30 minutes of running se between 20 and 30 minutes running (p=0.137). No significant changes were found for PP due to error in experimental decres Significant changes found at all intervals and no design/statistical analysis usualoccut anarysis. subsidier anarysis. g. Results for PP were not as expected but this was due to error in experimental design. Future research should focus on of DT on PP during running but as there is a lack studies utilising DT, any RCT with larger sample sizes including both omatic and asymptomatic participants would be of value. difference between 20 minutes and 30 minutes running. Results for effect of DT on PF HTTP://FICS.SPORT HELPING ATHLETES ACHIEVE THEIR OPTIMAL PERFORMANCE NATURALLY

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PRONATION CONTROL

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EMERGING RESEARCH

- The Effect of Dynamic Taping on Flexible Flat Feet, Kourtoglou, 2019
- Dynamic Taping increased navicular height and reduced navicular drop in single and double leg standing
- Significant shift in plantar pressures generally reducing medially and increasing laterally (although some increase under Hallux - not 1st MT)

ABSTRACT

Background and Objective: Flexible flatfoot is a condition which is related with further musculoskeletal disorders. The dynamic taping is supposed to support the longitudinal and transverse arches of the foot and with the line of pull aim to increase the medial longitudinal arch and reduce the excessive pronation and soft tissue laxity. These are also the main characteristics of this condition. This study aims to investigate the effect of dynamic taping on navicular height, navicular drop and on the plantar pressure during static and dynamic measurements in subjects with asymptomatic flexible flatfeet.

Method: Thirteen participants with navicular height less than 59mm and navicular drop more than 10mm participated in this study. From all the subjects the navicular height and the navicular drop, from double and one-leg standing, were taken. After that the subjects performed 3 tasks in the pressure plate; double-leg standing, one-leg standing and walking. The whole procedure was repeated with the foot taped.

Results: Paired t-tests revealed significant increase of the navicular height (p=.009) and significant decrease of the navicular drop both in double (p=.000) and one-leg standing (p=.010). A significant increase of the loads under the midfoot is noticed during the three tasks (p=.002; p=.001; p=.000). During the double-leg standing there is also significant reduction of the pronation (p=.000) while significantly increasing loads under the hallux (p=.049). Significant increase under the contact area is noticed during the one-leg standing (p=.030) and a significant reduction of the loads under the metatarsal 2 and 3 during the walking was found (p=.027; p=.008).

Conclusion: This study demonstrates that the tape can control the navicular height and the navicular drop. It also reveals some shifting of the loads from the medial to the lateral side without all of the outcomes being significant.

Keywords: flexible flatfeet, arch taping, dynamic tape, pressure plate, arch index

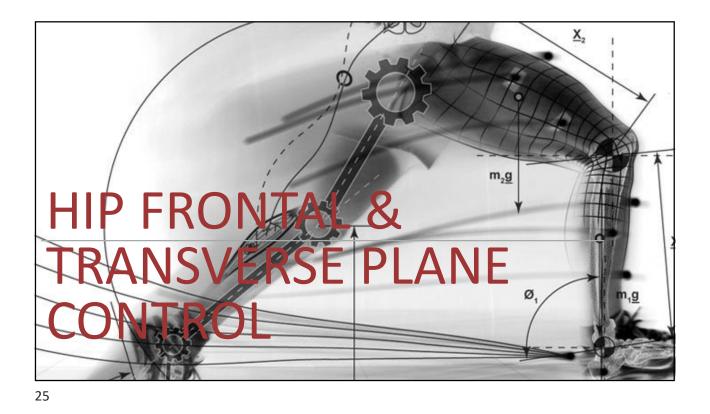
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HIP ADDUCTION & INTERNAL ROTATION CONTROL



