

Failure, Injury

Success, Injury

Success, Injury

Failure, Injury

Success, Injury

Success, Injury

Failure, Injury

Failure, Illness

Success, Injury

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Failure, Illness

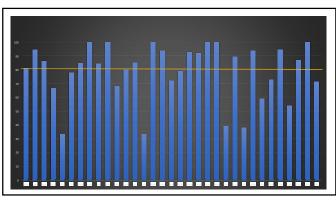
Success, Injury

Failure, Illness

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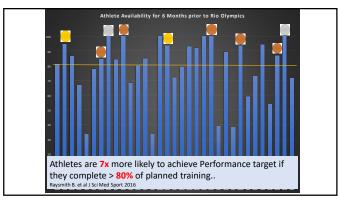


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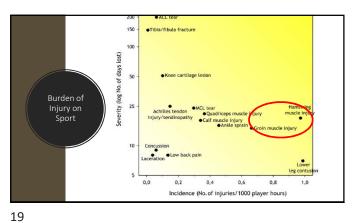


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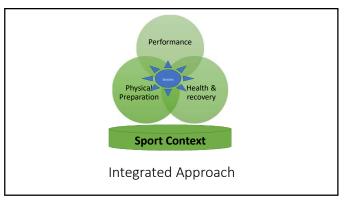
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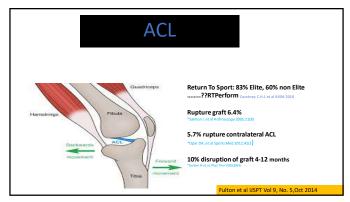


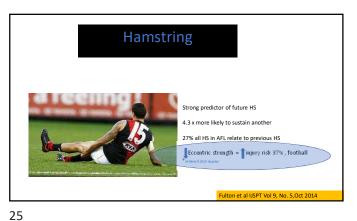








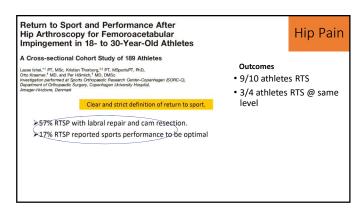




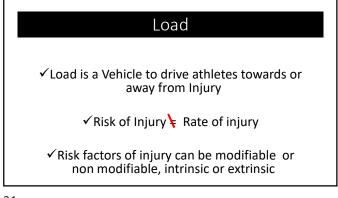


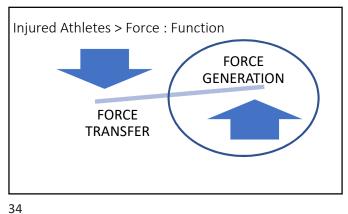


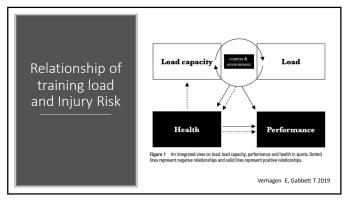


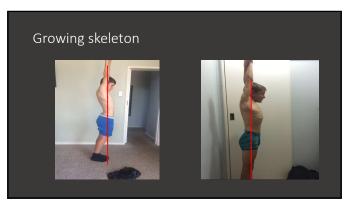












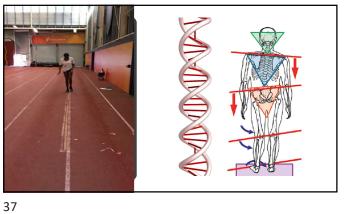
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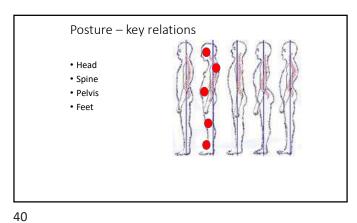


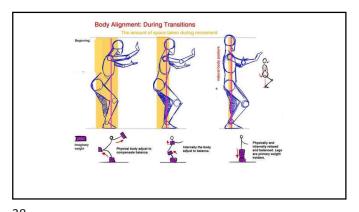


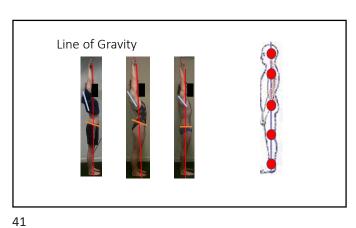
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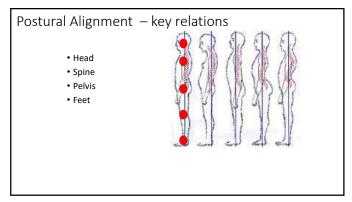
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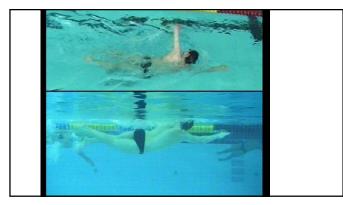


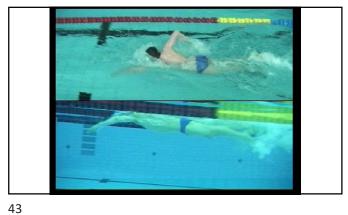


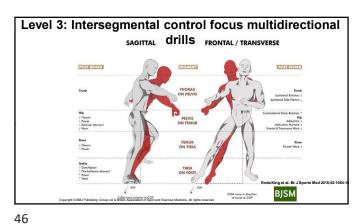


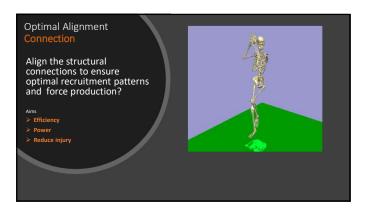


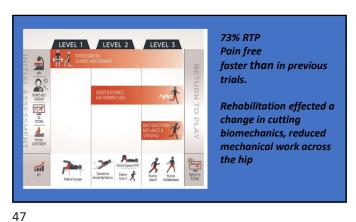


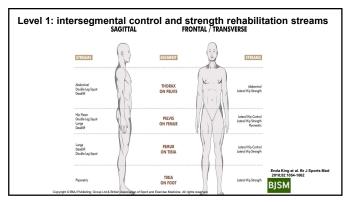


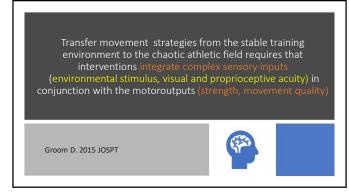


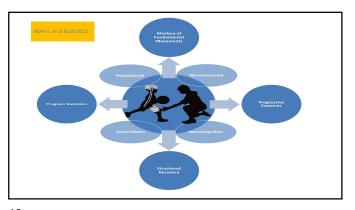


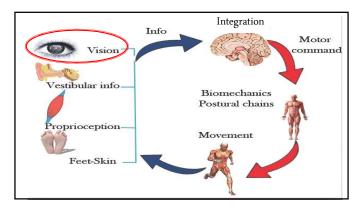












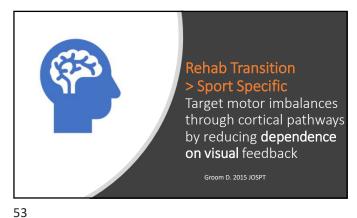
## Motor Training Structural and functions

IP Adkins D.L. et al 2006

Structural and functional reorganization across the motor system which is dictated by the behavioral demands of the training experience

- ➤ Skill training; cortical reorgansiation in Motor Cortex
- ➤ Strength; Spinal motorneuron and synaptogenesis Spinal cord
- ➤ Endurance; influences blood flow changes in Motor Cortex

For reorganization of motor patterning at level of the cortex some element of skilled training is a requirement



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Motor Control: Rehabilitation

Level of original learning

Perceived similarity

Task Structure

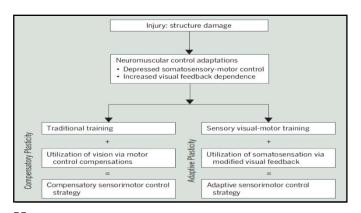
Similarity of goals and processing

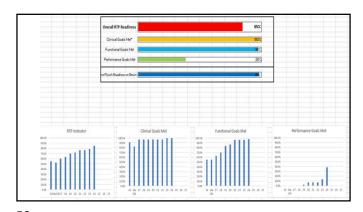
Number, variability and order of examples

Contextual Interference



51 54



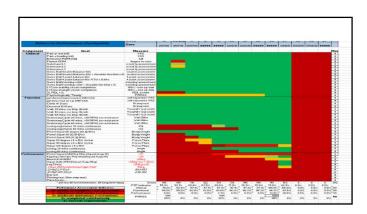


## Mastering skills free up cortical space

• https://www.youtube.com/watch?v=aoScYO2osb0

## **EXTERNAL FOCUS**

Direct attention to the anticipated trajectory of the object leads to increased movement accuracy versus instructions that direct attention to the body part involved, such as the hand or foot



56 59





57 60