

# Hip Health Management in Rowing

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# **Objectives**

- Why is the hip important?
- What are the obstacles?
- How can we optimise hip health and function?
- A bunch of pictures and videos at the end!









#### Language

#### Familiarity with common terms used

Flexion Extension ADduction ABduction Internal Rotation (IR) External Rotation (ER) Anterior rotation (pelvis) Posterior rotation (pelvis)





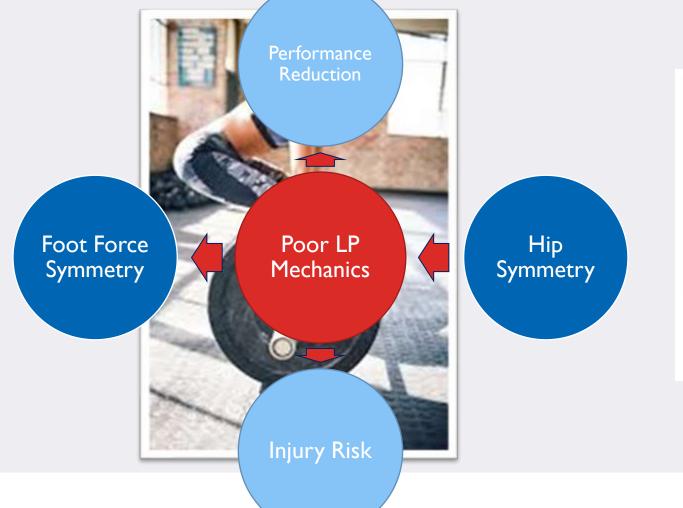


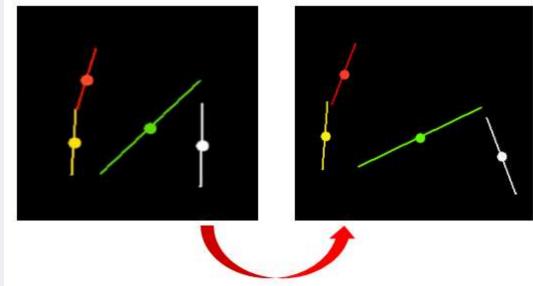
# Why is the hip important?...

Subtitle



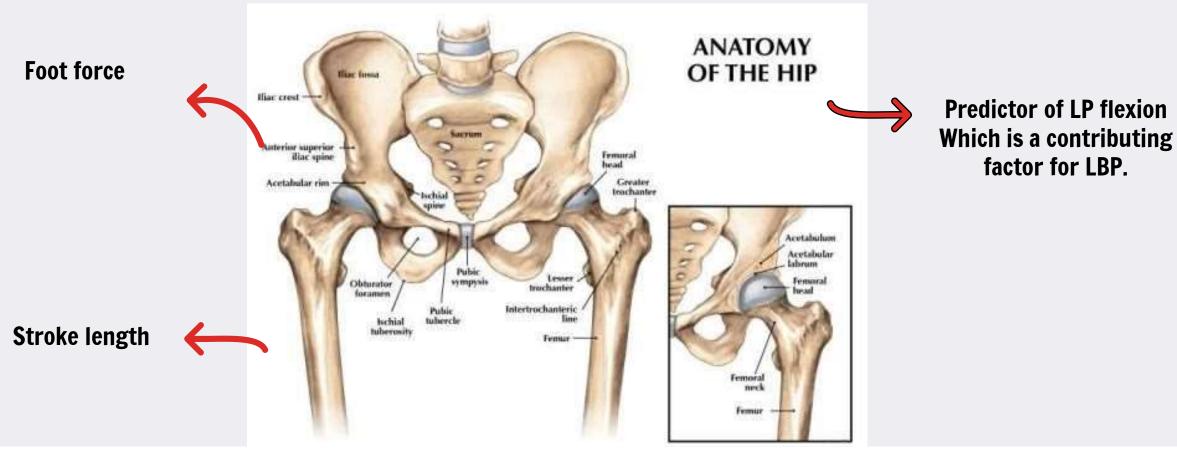
## **Kinetics & Kinematics of the Rowing Stroke**





### The role of the hip

#### **Regional interdependence**









The Warwick Agreement on femoroacetabular impingement syndrome (FAI syndrome): an international consensus statement

D R Griffin,<sup>1,2</sup> E J Dickenson,<sup>1,2</sup> J O'Donnell,<sup>3,4</sup> R Agricola,<sup>5</sup> T Awan,<sup>6</sup> M Beck,<sup>7</sup> J C Clohisy,<sup>8</sup> H P Dijkstra,<sup>9</sup> E Falvey,<sup>10,11</sup> M Gimpel,<sup>12</sup> R S Hinman,<sup>13</sup> P Hölmich,<sup>9,14</sup> A Kassarjian,<sup>15,16</sup> H D Martin,<sup>17</sup> R Martin,<sup>18,19</sup> R C Mather,<sup>20</sup> M J Philippon,<sup>21</sup> M P Reiman,<sup>20</sup> A Takla,<sup>3,22,23,24</sup> K Thorborg,<sup>14</sup> S Walker,<sup>25</sup> A Weir,<sup>9,26</sup> K L Bennell<sup>23</sup>

FAI-Syndrome "motion related clinical disorder of the hip with a triad of symptoms, clinical signs and imaging findings"

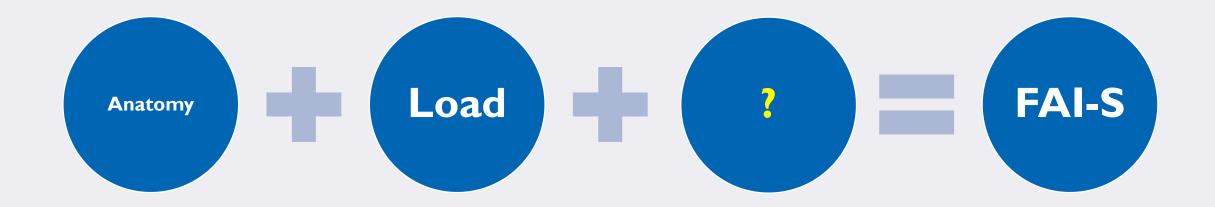
Associated with reduced ROM, particularly flexion + Internal Rotation

## The Anatomy



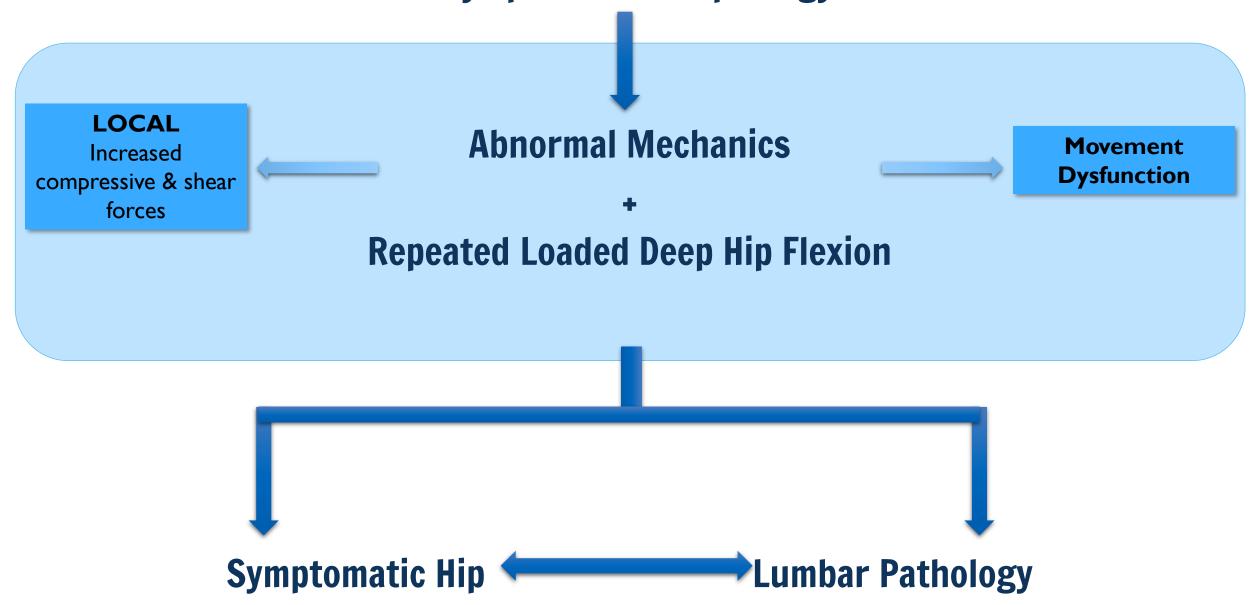


### The Question...





#### **Asymptomatic morphology**























### **Athlete profiling**

- Mobility
- Motor control
- Capacity
- Strength (stiffness/power)

### **"Pop Fitness Culture"**

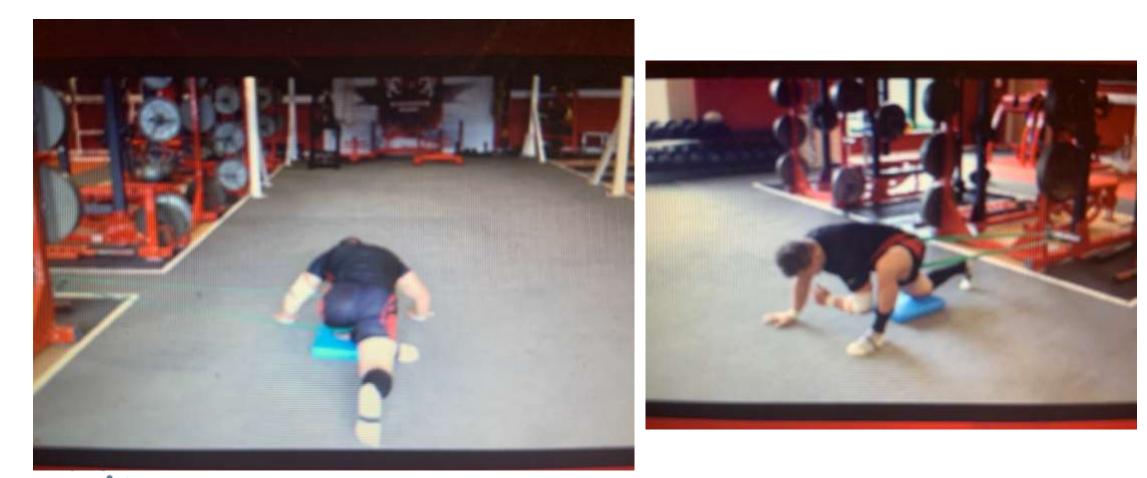
#### Things that make you feel good temporarily are addictive

Synthetic, temporary changes in range of motion aren't the solution.





### **Mobility - Give the people what they want!**









## Now, What we really really want

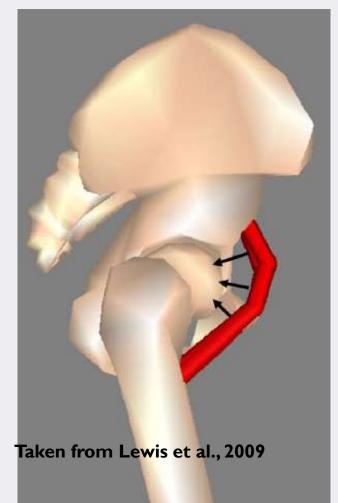
What you want

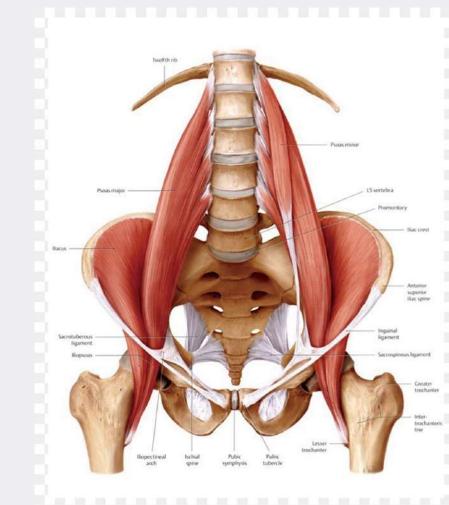
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What we want

ROWING

### **Hip Joint Stabilisation: Dynamic**

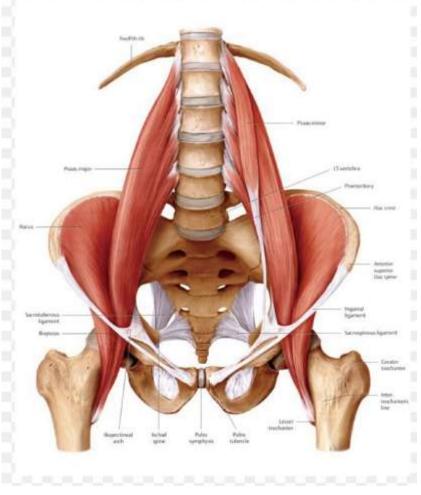






## LOAD! 2 birds 1 stone!

- Goal: hip joint stability
- How: Psoas, Adductors, Abductors
- Goal: pelvic stability and control
- How: Glutes, Posterior chain( hamstrings, glutes, erector spinae), trunk (lower abdominal), Motor control
- A lot of this will depend on where you are in your training age





# **Options to think about...**



Get more information: take pictures, video footage, get data (if you're a coach or physio) around hip, trunk and functional movements

Types of load and variety to elicit changes in tissue and movement – isometrics, tempo work

Tempo

Plane of motion

Isometrics

What are you trying to achieve?!?

Gymnastics/play sessions

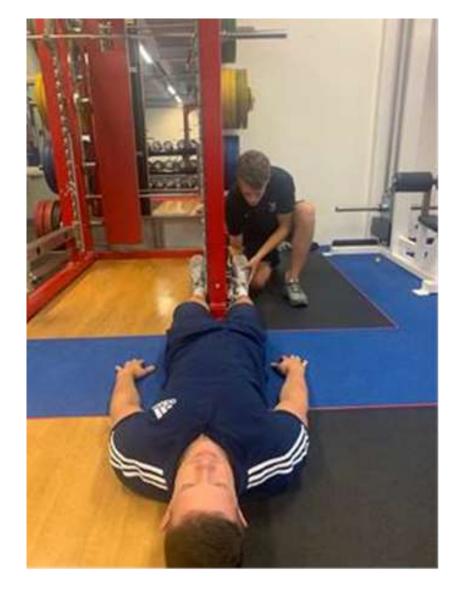


## Testing



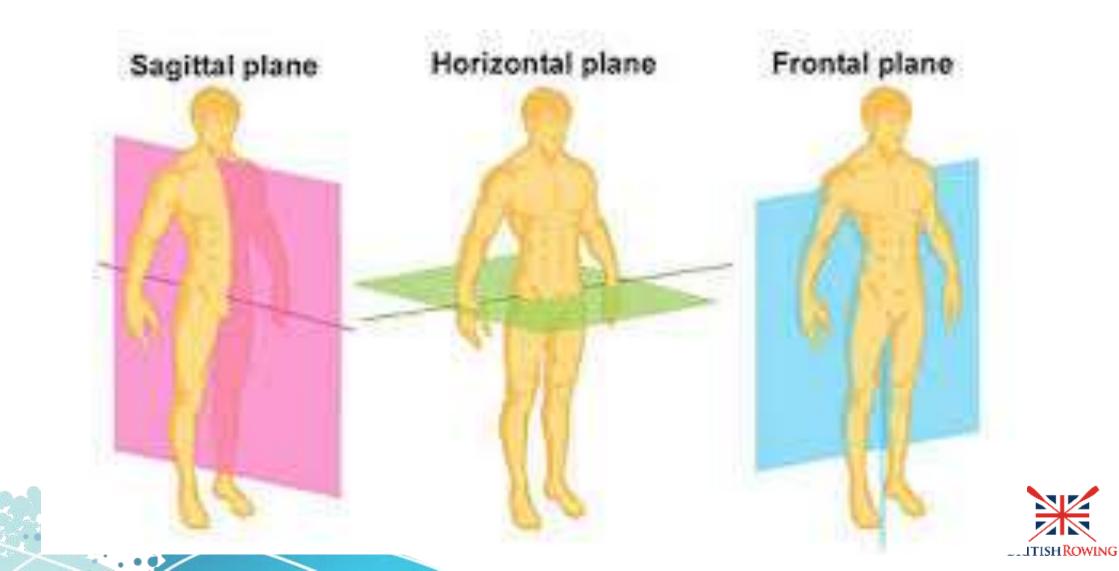








## Planes of motion...



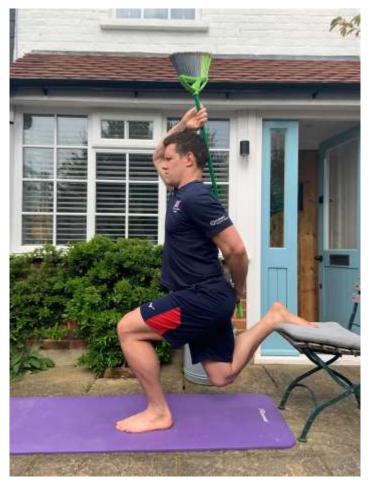






## Into practice...

















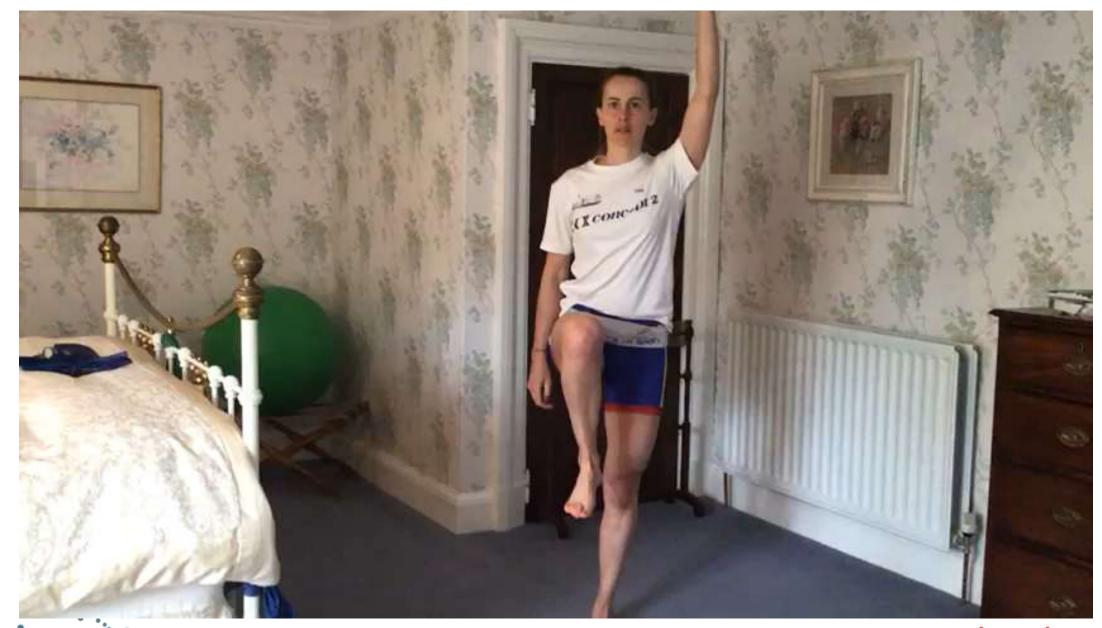




























### Isometrics...





















# **Any Questions?**

**Thanks for coming!** 

