Michael Giakoumis Head of Athlete Injury Management City Football Group Sports Physiotherapist at Marylebone Health Group (Hip & Groin and Muscle Injury Clinic) MG Health & Performance (Consultancy + Mentorship)

Rectus Femoris Injuries in Football

The Assessment, Exercise and Kicking progression pathway



Anatomy -> Surface Anatomy & Functional Assessment

Vastii + Rectus Femoris



Vastus Lateralis

Rectus Femoris

Vastus Medialis



Rectus Femoris



- Hip Joint Stability:
- Approximation Centres HoF
- Tensions anterior capsule
- Anterior buttress



Prox: Long tendon Distal: Stiffer tendon

Hasselman 1995, Kassarjian 2012, Slone 2015



Rectus Femoris Other synergists





Practical Surface Anatomy

Diagnostic Challenge More than radiology



Practical Physical Examination

Physical Qualities

Demand vs Supply Physical qualities -> Physical Adaptations











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Local Tissue Key physical qualities

Metabolic/Endurance

- <25 reps (Freckleton 2013)

Force

- Nordbord studies - AFL, Soccer (Timmins 2015; Opar 2013)

RFD

- Reduction in RFD & Impulse (Opar 2014)

Tensile Capabilities

- Reduction in peak torque angle (Sole 2009; Opar 2014)

Coordination (Intra & Inter-muscular)

- Reduction in joint position sense, synergy function & NMI (Cameron 2003; Schuermanns; Slider 2008)



Physical Qualities

Practical: What adaptation -> What exercise

On-pitch The how? progression









Kicking Periodisation Technology





Kicking Periodisation Technology

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Performance & Health



