# Coping with COVID Series: Physiotherapy and Injury Prevention

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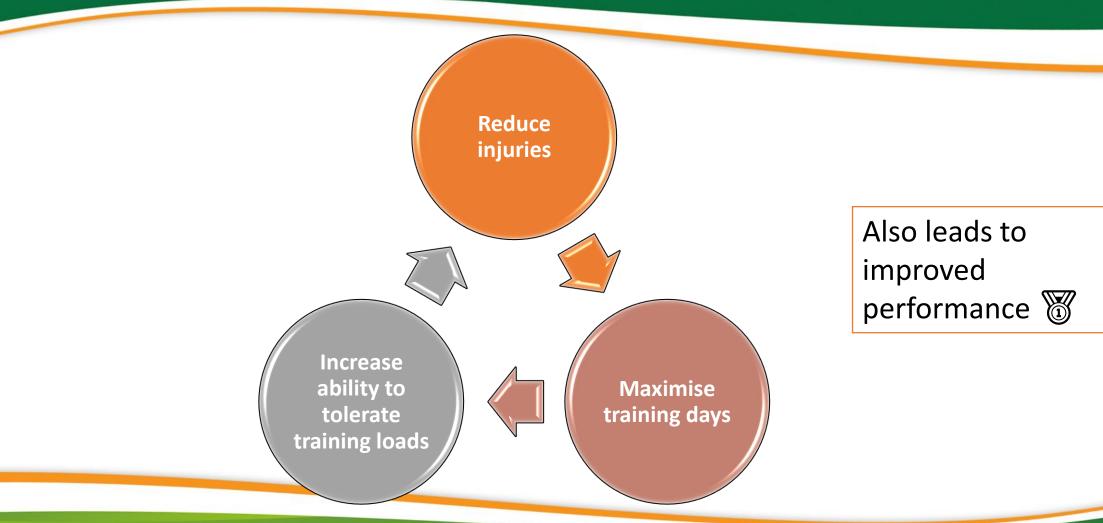


- Dealing with COVID 19 from an injury prevention point of view:
  - Why injury prevention is so important, especially now
  - Training changes during lockdown
  - How to safely return to training
  - Other things you can do to reduce your risk of injury
- Practical session: foam rolling and mobility work





# Why try to prevent injury?





# Why is injury prevention so important now?

- Training load
- Coach availability
- Physio availability
- Uncertainty/planning

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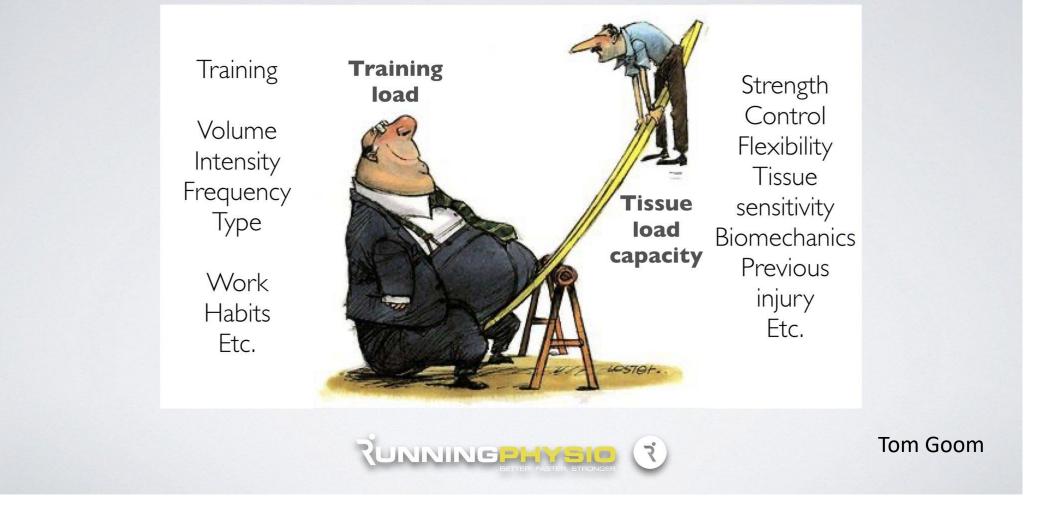
# What can we do to prevent injuries?

- Balance training load
- Optimise recovery
  - Nutrition
  - Sleep
- Strength training
- Mobility work \*





## FINDING THE BALANCE



Workloads that maximise positive adaptations while minimising fatiguing effects will help make athletes more robust to injury.

# Training changes due to COVID 19 Pandemic?

- Volume of training
- Intensity of training
- Type of training
- Training surface
- Not having a coach present
- Not having physio or massage

Be careful when returning to 'normal' training.



# Practical guidelines for balancing training load



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Keep a training diary. Speak with your coach. Gradually increase training load. Avoid sudden increases in training load. Monitor response to training – adjust if needed. Consider all aspects of training load: eg different surfaces.

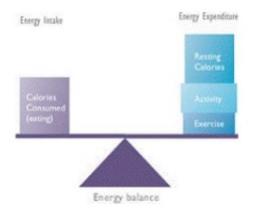
DIARY





### Nutrition

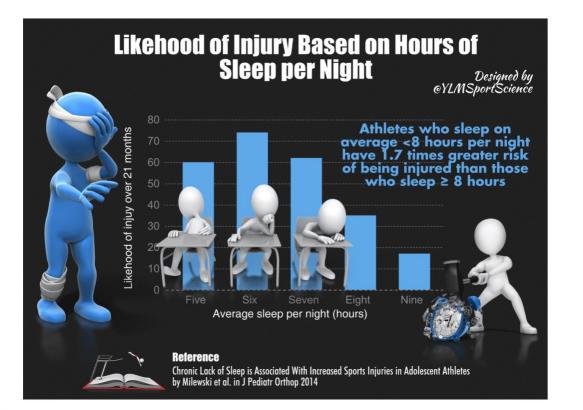
- Make sure you are eating enough.
  - Remember to take training AND your daily activities into account (eg cycling to school etc.)
  - Eat more on hard training days.
- Time your protein and carbohydrate intake around training.
  - BOTH protein and carbs are important for repair







# Sleep



- Athletes who sleep less than.
   <u>8 hours</u> per night have 1.7 times greater risk of sporting injury than their counterparts who sleep for 8 or more hours.
- When an increased training intensity and volume was coupled with shorter sleep in elite adolescent athletes, <u>injury risk</u> increased twofold.





- Get back to 'normal' training gradually plan
- Prioritise your recovery especially sleep and nutrition
- Foam rolling and mobility work can be used when access to physio and massage is limited





# Questions?





# Practical Session

## Foam Rolling and Mobility



### **AAI MOBILITY PROGRAM**

Flexibility refers to the range of movement available at a specific joint, whereas mobility is the range that a joint can work through during dynamic activities such as running. Having adequate mobility particularly around the ankles, hips and thoracic spine is important for runners to ensure that a sound posture can be sustained during the gait cycle. This program aims to enhance mobility across these areas using a combination of Active Stretches and Dynamic Mobilisations.

### KNEE TO WALLS

Techniques

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Athletics

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https://www.athleticsireland.ie /downloads/other/AAi Coach Injury Prevention.pdf

Practical	Mohility	/ Session
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Foam rolling TSpine

Foam rolling lats and back of shoulder

TSpine mobility – kneeling rot and thread the needle

Lat stretch

Book opens (arms bent – pecs)

Self release gluteals with ball

Pidgeon stretch

Lower back crossover

Foam rolling quads and hamstrings

Quad to hip flexor to hamstring stretch

**Calf foam rolling** 

Peroneal foam rolling

Plantar fascia self release

Calf stretch x 2

Knee to wall mobilisations

**Combined movements:** 

90/90 hips + side flexion and reach (yoga)

Bretzel

Athletics

Lunge with Tx rotation

Warrior