## **Stop the Guessing Game:**

Implementing a Criterion and Evidence-Based Functional Performance

Testing Algorithm in Foot and Ankle Injuries





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## **Learning Objectives**

After attending this educational session, participants will be able to:

- 1. Analyze the importance of functional testing algorithms for determining return to function readiness in patients with foot and ankle musculoskeletal injuries.
- 2. Evaluate the evidence on the appropriate use of physical performance tests (PPTs) to determine readiness for return to function post foot and ankle musculoskeletal injury.
- 3. Develop a criterion, algorithmic, and evidence based approach of determining patient readiness and clearance for return to jogging, plyometrics, and higher-level activities.
- 4. Synthesize practical recommendations for implementing the Return to Function Physical Performance Testing Algorithm for the Foot and Ankle Complex in clinical practice, taking into account the patient's demographic, functional capacity, and specific pathology.

## **Session Outline**

#### 1. Introduction

- Overview & epidemiology of foot & ankle injuries
- 2. Proposed Criteria for Clinical Milestones & Return to Activity Decision-Making
- 3. Early-Stage Criteria
  - Tissue Healing Timelines
  - Joint Pain & Symptoms
  - Patient Reported Outcomes
  - Joint Range of Motion
  - Neuromuscular Re-training

### 4. Mid-Stage Criteria

- Range of Motion
- Postural Control
- Muscle Performance & Capacity

#### 5. Force & Impact Absorption Capacity

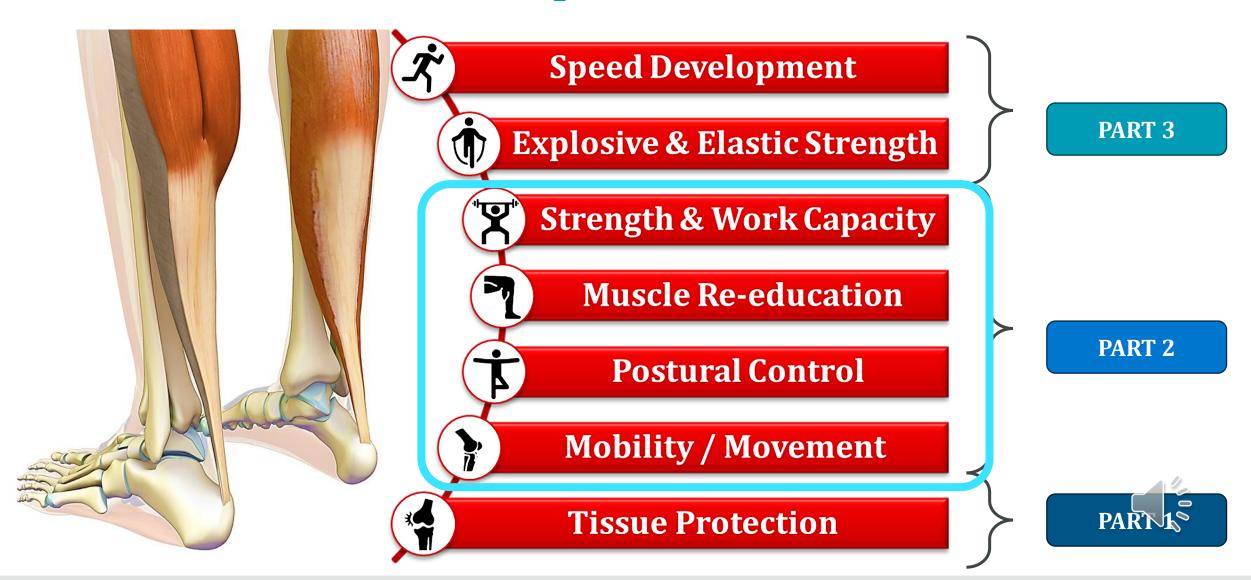
- Low-Level Plyometric
- Return to Running Decision Making
- 6. Functional Full Kinetic Chain Re-Integration
  - Jump & Hop Tests
  - Multi-directional Hopping
- 7. Functional Testing Batteries
  - Proposed Physical Performance Batteries
- 8. Summary, Conclusion & Future Directions
  - Implications for Clinical Practice
  - Putting it all together: Key Takeaways
  - Practice Based Evidence: Implementation strategies and best practices
- 9. Discussion & Questions/Answers

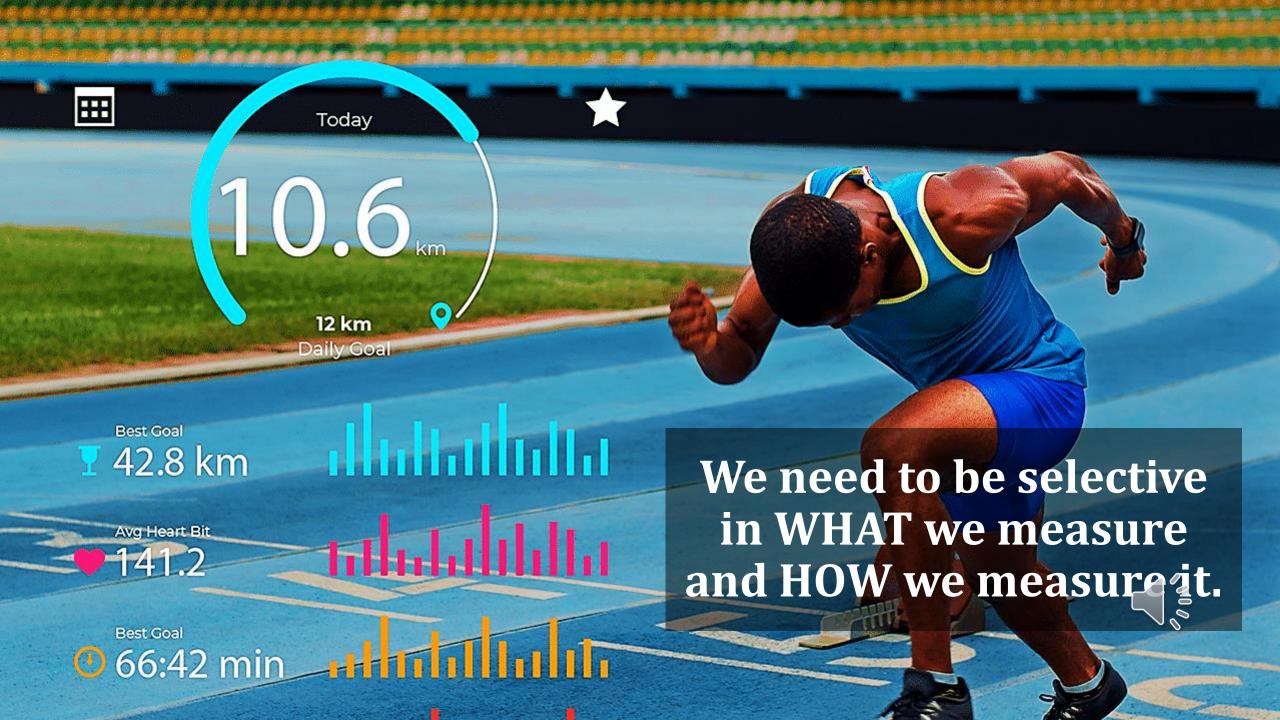


**Secondary Goal.** Is to avoid this...



# **Presentation Road Map**





# Not all Tests & Measures Are Created Equal

## **Return to Sport Criteria**

Dorsiflexion Passive Range of Motion: >40°

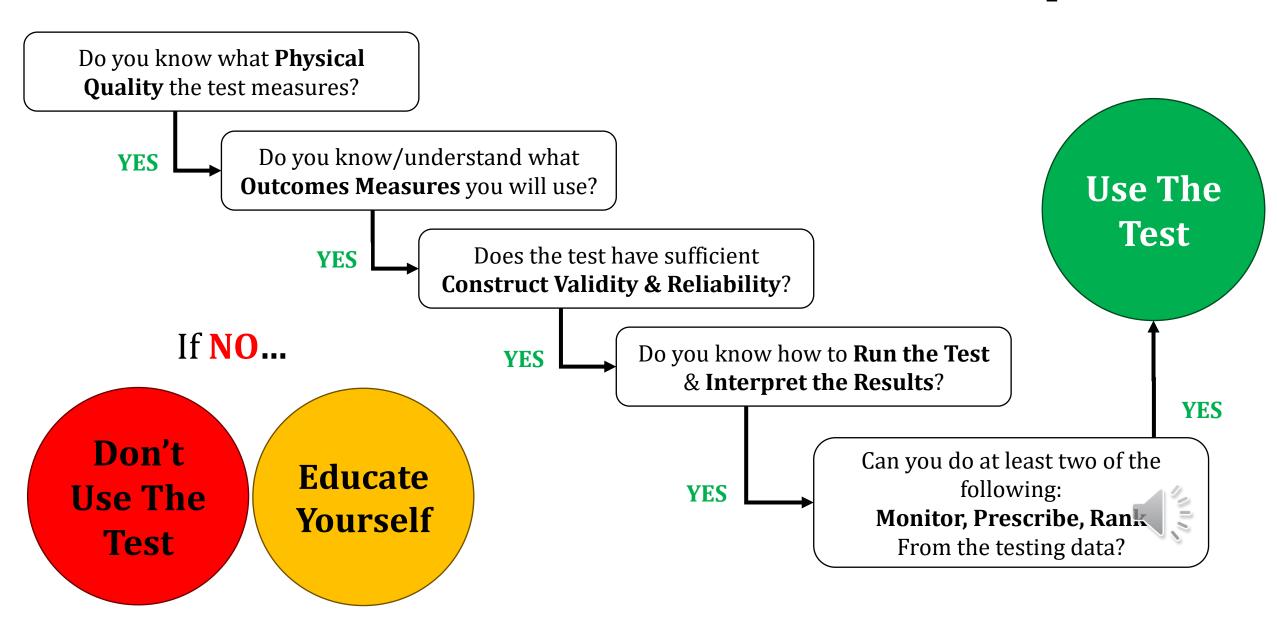
#### How is that measured?

## What goes into a measurement?

- 1. Reliability (consistency over time, providers, and clients)
- 2. Validity (accuracy (at least correlation) to gold standard)
- 3. Standard Error of Measure
- 4. Minimal Detectable Change
- 5. Normative Data (Interpretation)



# Not all Tests & Measures Are Created Equal



## Measure What Matters.

"What gets measured gets managed."

Dysfunctional Consequences of

Performance Measurements

V.F. Ridgway 1956 Admin Sci Quarterly

"What gets measured gets managed – *even* when it's **pointless to measure** AND **manage** it, AND *even if* it **harms the purpose** of the [provider] to do so"

- Simon Caulkin summarizing V.F. Ridgway's argument



# Measure What Matters.

## 1. Understand Context & Objective

- Understand:
  - specific physical demands of the patient/athlete
  - relative importance of KPIs to those demands
- Identify **predictable KPI deficits** based on diagnosis/condition
- 2. Avoid Single-Criterion Measures
- 3. Use Multiple Criteria Judiciously
  - Employ multiple performance metrics that capture all critical aspects of the condition & physical demand
- 4. Develop Composite Measures with Clear Weight
- 5. Regularly Review & Adapt Metrics

