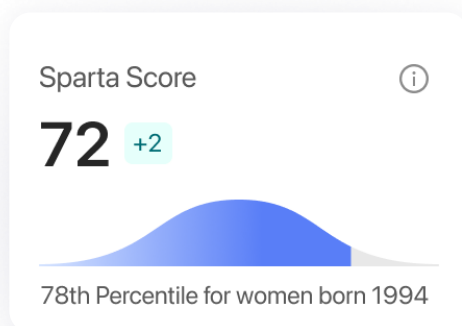


INSTRUCTIONAL

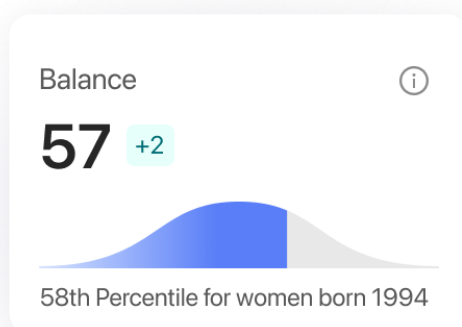
# Scan Guide

How to interpret and relay Sparta Scan results to patients in the clinic.



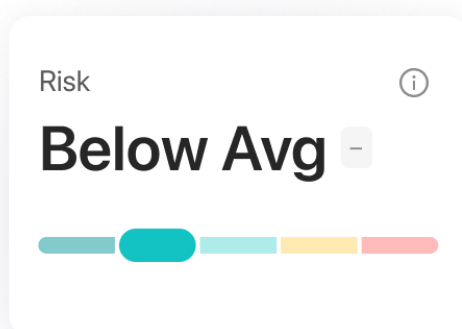
### **Sparta Score** represents your Dynamic Movement Efficiency

Sparta Score represents an individual's dynamic movement efficiency. Higher scores indicate better efficiency, with typical values ranging between 75-85.



### **Balance** represents your Balance Capability

Balance represents an individual's overall balance capability. Higher scores indicate better balance capabilities, with typical values ranging between 40-60.

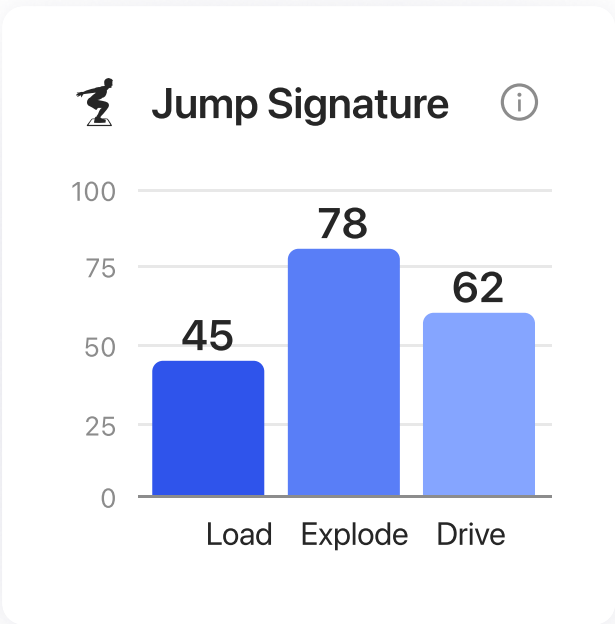


### **Risk** is a Relative Risk Classification

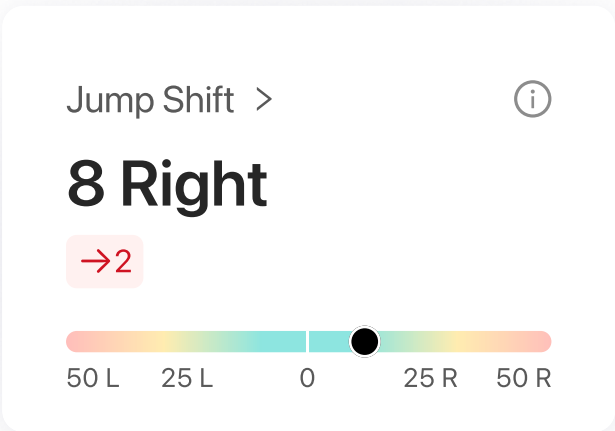
Derived from the most recent Jump Scan, Risk stratifies relative musculoskeletal injury risk utilizing our base athletic population model.

# Jump Scan Results

Collectively, Load, Explode, and Drive represent an individual's ability to create, transfer, and apply force in dynamic movement, and are utilized to classify movement strategies.



	LOAD	EXPLODE	DRIVE
MOVEMENT QUALITY	Ability to CREATE force (eccentric)	Ability to TRANSFER force	Ability to APPLY force (concentric)
GLOBAL	"Strength"	"Power"	"Mobility"
LOCAL	Anterior (Front)	Torso (Core)	Posterior (Back)
MEASUREMENT	Rate of force created (N/s)	Magnitude of force transferred (N/kg)	Impulse or Sum of force applied (Ns/kg)



## Jump Shift

Jump Shift represents the lateral shift of movement during loading (eccentrically)

- Higher values indicate a larger lateral shift
- Typical values range between 0-10

## MOVEMENT CONCEPTS

### LOAD

- Knee-Dominant
- Squat Patterns
- Anterior Chain
- Upright Torso
- Eccentric Strength

### EXPLODE

- Core Stability/Bracing
- Anti-Rotation/Lateral Flexion
- Reactive/Plyometrics
- Relative Strength

### DRIVE

- Larger ROM/Longer TUT
- Soft Tissue Manipulation
- Posterior Chain/Triple Extension
- Global Mobility

### LOAD & EXPLODE

- Overall Strength/Stability
- Bilateral Emphasis
- Strength in Limited ROM
- Reactive/Explosive Strength

### LOAD & DRIVE

- Strength in Full ROM
- Larger ROM/Longer TUT
- Triple Flexion & Extension
- Global Mobility

## KEY CONCEPTS

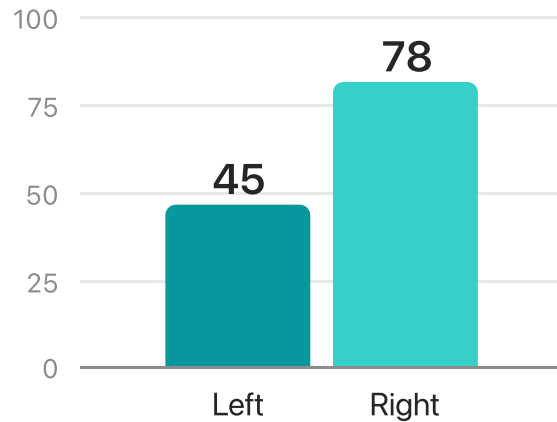
### JUMP SHIFT

- Prioritize single-leg exercises (see Movement Concepts)
- Assess frequently to monitor asymmetry

## Balance Scan Results



### Balance Signature



### Balance (Right and Left limb values)

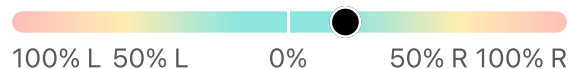
- Balance represents an individual's overall balance capability on each limb
- Higher scores indicate better balance capabilities
- Typical values range between 40-60

### Balance Asymmetry >



**8% Right**

→2



### Balance Asymmetry

- Balance Asymmetry represents differences in balance capabilities from side to side
- Higher values indicate greater asymmetry
- Typical values range between 0-20%

## IMPROVING BALANCE

### IMPROVING BALANCE

- Balance practice
- Perform distracting tasks while balancing
- Unexpected perturbations while balancing
- Improve relative strength
- Improve flexibility

### ADDRESSING BALANCE ASYMMETRY

## KEY CONCEPTS

- Prioritize single-leg exercises (see Improving Balance)
- Assess frequently to monitor asymmetry