

# PROFILE ASSESSMENT

Diego Falcao

15<sup>th</sup> December, 2023

## PROFILE INFORMATION

NAME	Diego Falcao
ORGANISATION	On Morumbi Clinica Medica
DATE OF BIRTH	21 <sup>st</sup> July, 1984
GENDER	Male
HEIGHT	188cm / 74in
WEIGHT	95kg / 209lb
AGE	39



## Standing Posture

### Posture and Stability Assessment

Standing Posture is a baseline postural assessment that can provide insight into an individual's structural balance, alignment, and postural strategy.

## RESULTS

### BALANCE SNAPSHOT



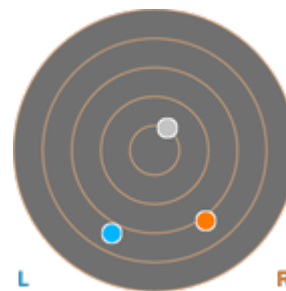
### SIDETRAK POSTURAL DEVIATION (SAGITTAL PLANE/SIDE VIEW)



### KEY RESULTS

Neck lateral flexion	0.5° Right ▼
Trunk lateral flexion	1.3° Right ▼
Pelvis Lateral Tilt	1.7° Right ▼
Trunk Flexion	0.5° Posterior

### SWAYTRAK MOVEMENT PATHS (KNEES AND CENTRE OF MASS)



### PRACTITIONER COMMENTS





## Cervical Spine Flexion/Extension

### Range of Motion Assessment

Cervical Spine Flexion (forward) / Extension (backwards) calculated by taking the inclination of the head relative to the line of the trunk in the sagittal plane (side view).

## RESULTS

PEAK FLEXION SNAPSHOT		PEAK EXTENSION SNAPSHOT		
				
KEY RESULTS	STARTING POSITION	PEAK FLEXION	PEAK EXTENSION	TOTAL RANGE
Flexion/Extension	0.0°	37.2°	12.5°	49.7°
Trunk Flexion	4.8° Posterior	0.4° Posterior	6.3° Posterior	N/A
Trunk lateral flexion	2.9°	3.1° Right ▼	2.3° Right ▼	N/A

## PRACTITIONER COMMENTS



## Cervical Spine Lateral Flexion

### Range of Motion Assessment

Cervical Spine Lateral Flexion (left and right) is calculated by taking the inclination of the head relative to the line of the trunk in the frontal plane (front view).

## RESULTS

### PEAK LEFT LATERAL FLEXION

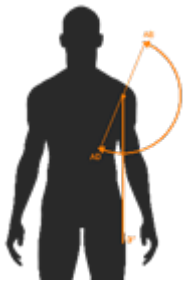


### PEAK RIGHT LATERAL FLEXION



KEY RESULTS	PEAK FLEXION (LEFT)	PEAK FLEXION (RIGHT)	IMBALANCE
Lateral Flexion	23.4°	21.7°	+1.8°
Trunk Flexion	4.0° Posterior	4.6° Posterior	N/A
Trunk lateral flexion at Peak Flexion	3.9° Left ▼	8.3° Right ▼	+4.5°

## PRACTITIONER COMMENTS



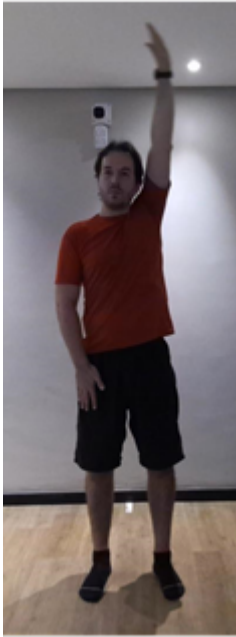



## Shoulder Adduction/Abduction

### Range of Motion Assessment

Shoulder Adduction/Abduction is calculated by taking the angle created by the humerus (upper arm) relative to the line of the trunk in the frontal plane (front view).

## RESULTS

PEAK ADDUCTION		PEAK ABDUCTION	
LEFT	RIGHT	LEFT	RIGHT
			
KEY RESULTS	LEFT	RIGHT	IMBALANCE
Shoulder Adduction	81.9°	82.6°	+0.7°
Shoulder Abduction	168.5°	174.0°	+5.5°
Trunk lateral flexion at Peak Abduction	4.6° Right ▼	0.0° Left ▼	+4.6°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )

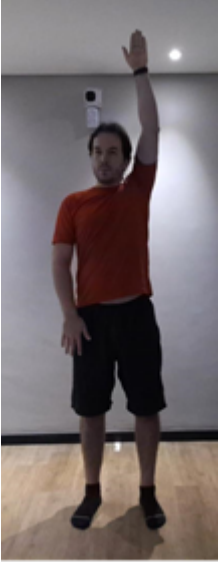
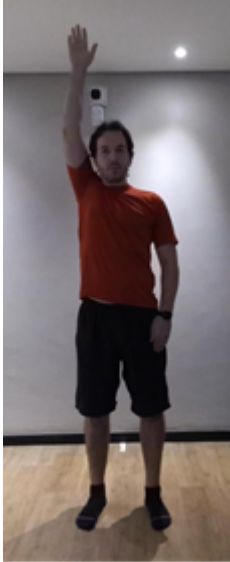

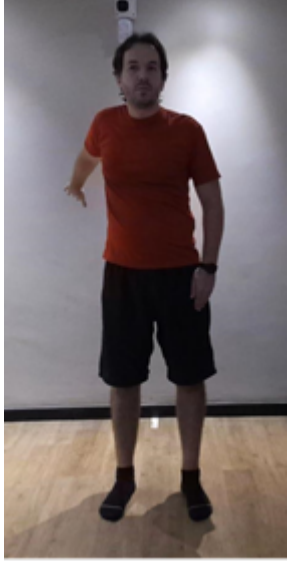


## Shoulder Flexion/Extension

### Range of Motion Assessment

Shoulder Flexion/Extension is calculated by taking the angle created by the humerus (upper arm) relative to the line of the trunk in the sagittal plane (side view).

## RESULTS

PEAK FLEXION		PEAK EXTENSION	
LEFT	RIGHT	LEFT	RIGHT
			
KEY RESULTS	LEFT	RIGHT	IMBALANCE
Shoulder Flexion	175.7°	169.5°	+6.3°
Shoulder Extension	56.9°	66.1°	+9.2°
Trunk lateral flexion at Peak Flexion	3.0° Right ▼	1.2° Right ▼	+1.7°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )



## Shoulder Internal/External Rotation

### Range of Motion Assessment

Shoulder Internal/External Rotation calculated by taking the angle created by the forearm relative to horizontal in the sagittal plane (side view).

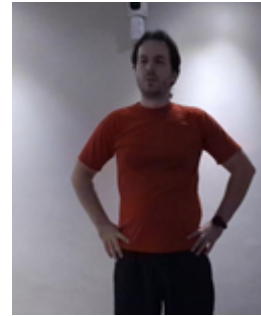
## RESULTS

### PEAK INTERNAL ROTATION

#### LEFT



#### RIGHT



### PEAK EXTERNAL ROTATION

#### LEFT



#### RIGHT



#### KEY RESULTS

#### LEFT

#### RIGHT

#### IMBALANCE

Shoulder Internal Rotation

89.0°

69.8°

+19.2°

Shoulder External Rotation

76.4°

93.0°

+16.6°

Total ROM

165.4°

162.8°

+2.6°

Trunk lateral flexion  
at Peak Internal Rotation

1.8° Right ▼

1.6° Right ▼

+0.2°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )



## Hip Internal/External Rotation

### Range of Motion Assessment

Hip Internal/External Rotation is calculated by taking the angle created by the tibia relative to vertical in the frontal plane (front view) while seated with 90° of hip flexion.

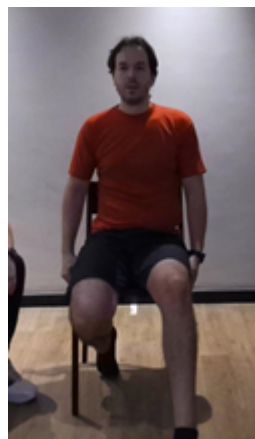
## RESULTS

### PEAK INTERNAL ROTATION

#### LEFT



#### RIGHT

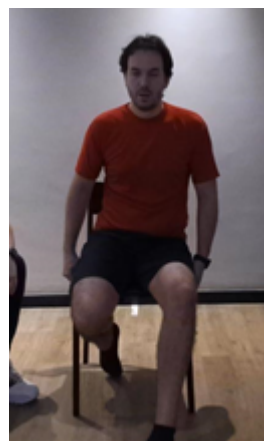


### PEAK EXTERNAL ROTATION

#### LEFT



#### RIGHT



#### KEY RESULTS

#### LEFT

#### RIGHT

#### IMBALANCE

Peak Internal Rotation

40.1°

51.0°

+10.9°

Peak External Rotation

47.9°

58.7°

+10.8°

Total ROM

88.0°

109.8°

+21.7°

PRACTITIONER COMMENTS ( **LEFT** )

PRACTITIONER COMMENTS ( **RIGHT** )





## Single Leg Stand

### Balance Assessment

Standing balance over time is assessed while standing on one leg.

Eyes Open  
Surface Stable  
Time 10.0 s

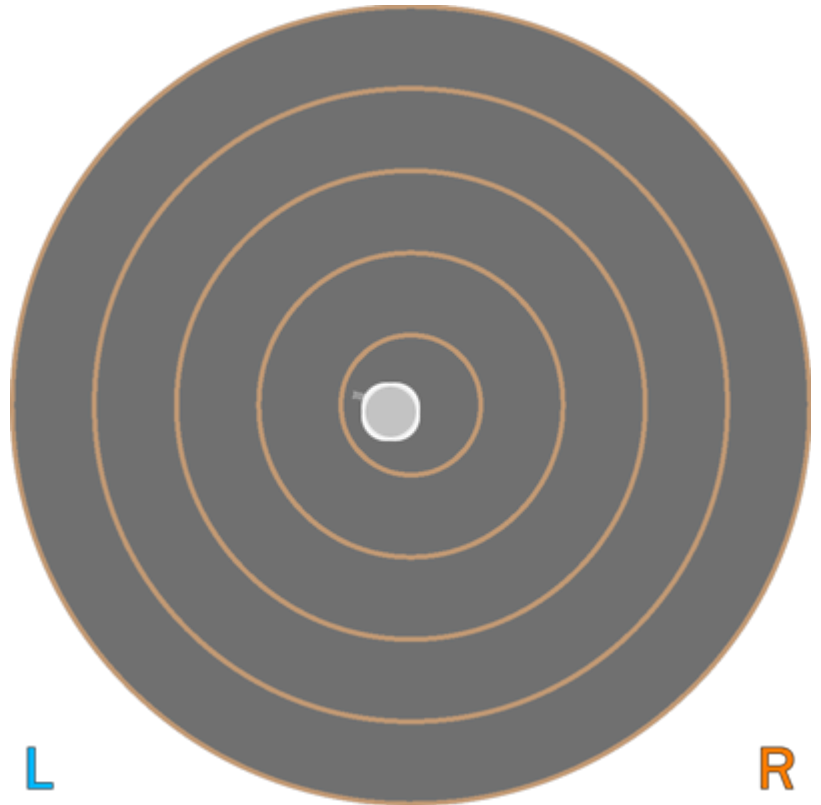
## RESULTS

### BALANCE RESULTS (LEFT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

#### RESULTS

Ellipse Area	0.36 cm <sup>2</sup>
COM Path Length	13.91 cm
Range – ML	1.32 cm
Range – AP	2.33 cm
Pelvis Lateral Tilt	5.3° Left ▼
Trunk lateral flexion	1.5° Left ▼

#### PRACTITIONER COMMENTS



## Single Leg Stand

### Balance Assessment

Standing balance over time is assessed while standing on one leg.

Eyes Open  
Surface Stable  
Time 10.0 s

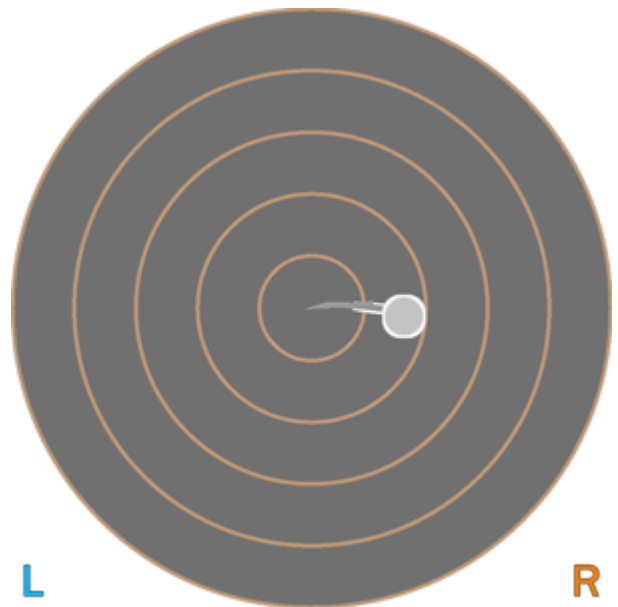
## RESULTS

### BALANCE RESULTS (RIGHT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

Ellipse Area

COM Path Length

Range – ML

Range – AP

Pelvis Lateral Tilt

Trunk lateral flexion

#### RESULTS

3.57 cm<sup>2</sup>

27.71 cm

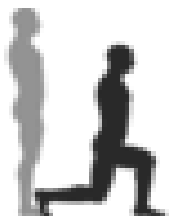
7.70 cm

2.30 cm

5.7° Right ▼

2.4° Right ▼

#### PRACTITIONER COMMENTS



## Lunge

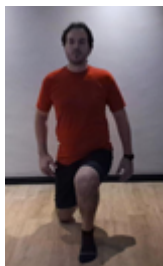
### Lower Body Dynamic Assessment

The Lunge assesses the strength and range of motion of the knees and hips.

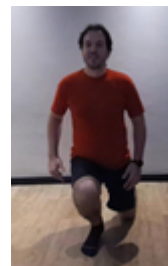
## RESULTS

### PEAK KNEE FLEXION

#### LEFT



#### RIGHT



KEY METRICS	LEFT LEG	RIGHT LEG	ASYMMETRY
Peak Hip Flexion	68.0°	62.4°	8.2%
Peak Knee Flexion	105.5°	89.1°	15.5%
Peak Spine Lateral Tilt	3.1° Posterior	0.9° Posterior	N/A
Peak Pelvic Lateral Tilt	1.7° Right	2.3° Left	N/A

PRACTITIONER COMMENTS ( **LEFT** )

PRACTITIONER COMMENTS ( **RIGHT** )







## Squat

### Lower Body Dynamic Assessment

Squat is a dynamic movement assessment providing insight into an individual's balance, stability, flexibility, and strength.

## RESULTS

SNAPSHOTS			
START	REP 1: PEAK KNEE FLEXION	REP 2: PEAK KNEE FLEXION	REP 3: PEAK KNEE FLEXION
			
KEY RESULTS	REP 1	REP 2	REP 3
Peak Knee Flexion ( <b>Left</b> )	138.4°	141.9°	141.4°
Peak Knee Flexion ( <b>Right</b> )	139.2°	140.4°	140.9°
Spine Tilt at Peak Knee Flexion	28.3° Anterior	28.4° Anterior	29.3° Anterior
Trunk lateral flexion at Peak Knee Flexion	1.4° <b>Right</b> ▼	0.9° <b>Right</b> ▼	1.2° <b>Right</b> ▼

## PRACTITIONER COMMENTS

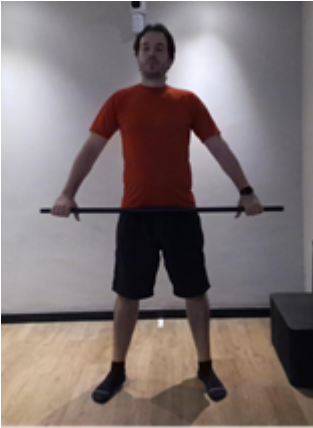
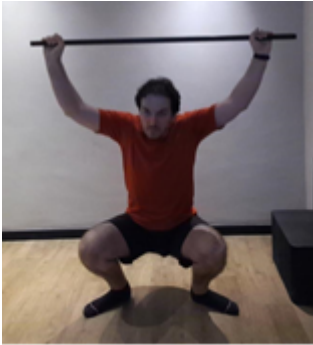
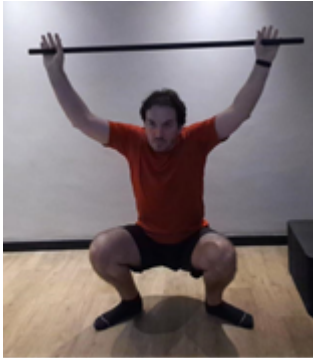
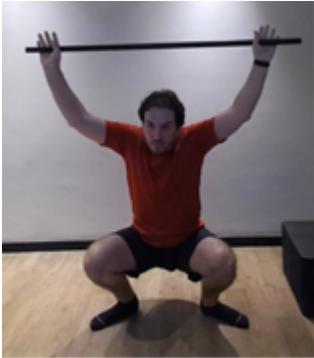


## Overhead Squat

### Lower Body Dynamic Assessment

Overhead squat is a dynamic movement assessment providing insight into an individual's balance, stability, flexibility, and strength.

## RESULTS

SNAPSHOTS			
START	REP 1: PEAK KNEE FLEXION	REP 2: PEAK KNEE FLEXION	REP 3: PEAK KNEE FLEXION
			
KEY RESULTS	REP 1	REP 2	REP 3
Peak Knee Flexion ( <b>Left</b> )	142.7°	142.4°	140.6°
Peak Knee Flexion ( <b>Right</b> )	138.5°	139.1°	138.5°
Trunk Flexion at Peak Knee Flexion	17.6° Anterior	18.7° Anterior	20.5° Anterior
Trunk lateral flexion at Peak Knee Flexion	0.8° <b>Left</b> ▼	2.3° <b>Right</b> ▼	0.8° <b>Right</b> ▼

## PRACTITIONER COMMENTS



# Countermovement Jump

## Lower Body Dynamic Assessment

The Countermovement Jump assesses the landing posture during an explosive dynamic exercise.

### RESULTS

#### PEAK KNEE FLEXION after landing



#### KEY METRICS (TORSO)

Jump Height 33.97 cm

Peak Spine Tilt after landing 11.1° Anterior

Peak Lateral Spine Tilt after landing 0.6° Right

Peak Lateral Pelvic Tilt after landing 3.4° Right

#### KEY METRICS (LEGS)

##### LEFT LEG

##### RIGHT LEG

##### ASYMMETRY

Peak Hip Flexion after landing 40.0° 35.1° 12.2%

Peak Knee Flexion after landing 54.0° 51.1° 5.3%

Peak Knee Valgus/Varus after landing 6.2° Varus 12.9° Varus 52%

#### PRACTITIONER COMMENTS



## Drop Jump

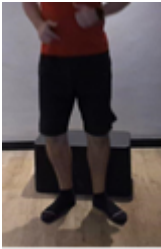
### Lower Body Dynamic Assessment

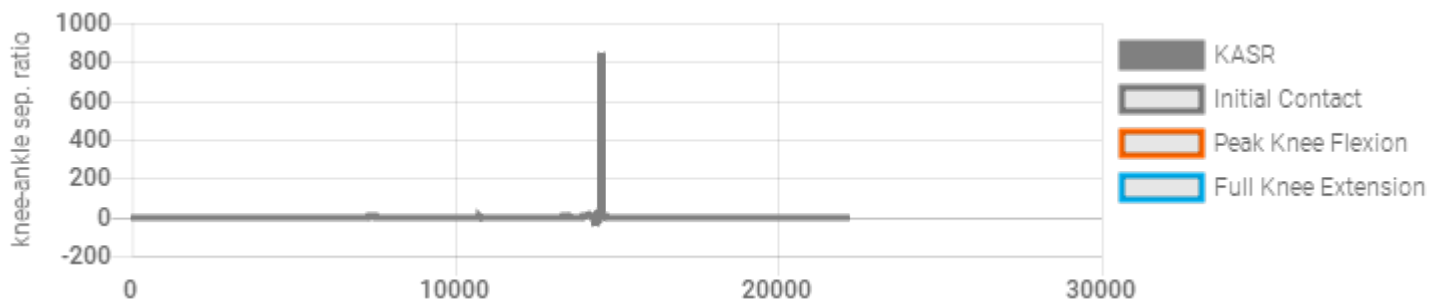
Drop Jump is used to assess coordination, balance, joint stability and power, requiring the patient to drop from a box or platform and transition from landing into an explosive jump .

Height

unspecified

## RESULTS

PHASE	Initial Contact	Peak Knee Flexion
SNAPSHOTS		
Result		
Knee-Ankle Separation Ratio	1.2	1.3
Hip Flexion ( Left )	25.9°	26.2°
Hip Flexion ( Right )	24.1°	24.6°
Knee Flexion ( Left )	47.3°	48.0°
Knee Flexion ( Right )	49.2°	50.4°



## PRACTITIONER COMMENTS







## Single Leg Squat

### Lower Body Dynamic Assessment

Single Leg Squat is a dynamic movement assessment that provides insight into an individual's balance, stability, flexibility, and strength.

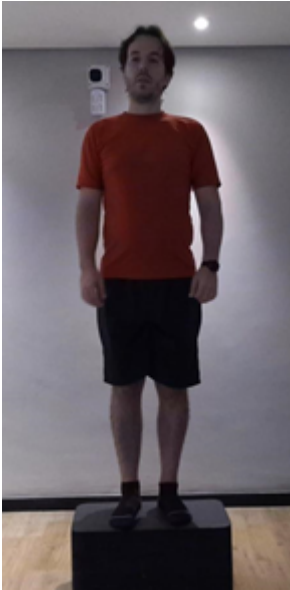



## RESULTS

LEFT LEG			
SNAPSHOTS			
START	REP 1: PEAK KNEE FLEXION	REP 2: PEAK KNEE FLEXION	REP 3: PEAK KNEE FLEXION
			
KEY RESULTS	REP 1	REP 2	REP 3
Peak Knee Flexion	83.3°	80.9°	88.1°
Knee Displacement (total)	21.0 cm	21.4 cm	15.1 cm
Peak Knee Valgus	22.7° Valgus	32.5° Valgus	24.5° Valgus
Peak Knee Varus	2.5° Varus	1° Varus	2.5° Varus
Trunk lateral flexion at Peak Knee Flexion	0.8° Right ▼	3.9° Right ▼	4.3° Right ▼

## PRACTITIONER COMMENTS



RESULTS

RIGHT LEG			
SNAPSHOTS			
START	REP 1: PEAK KNEE FLEXION	REP 2: PEAK KNEE FLEXION	REP 3: PEAK KNEE FLEXION
			
KEY RESULTS	REP 1	REP 2	REP 3
Peak Knee Flexion	82.6°	95.6°	93.6°
Knee Displacement (total)	18.2 cm	15.7 cm	15.6 cm
Peak Knee Valgus	0.2° Valgus	18.9° Valgus	5.5° Valgus
Peak Knee Varus	11.6° Varus	2.3° Varus	7.3° Varus
Trunk lateral flexion at Peak Knee Flexion	3.3° Right ▼	2.4° Right ▼	3.5° Right ▼

PRACTITIONER COMMENTS