

# PROFILE ASSESSMENT

Ricardo MANTOVANI

9<sup>th</sup> April, 2024

## PROFILE INFORMATION

NAME	Ricardo MANTOVANI
ORGANISATION	On Morumbi Clinica Medica
DATE OF BIRTH	21 <sup>st</sup> March, 1969
GENDER	Male
HEIGHT	189cm / 74in
WEIGHT	97kg / 213lb
AGE	55



## Standing Posture

### Posture and Stability Assessment

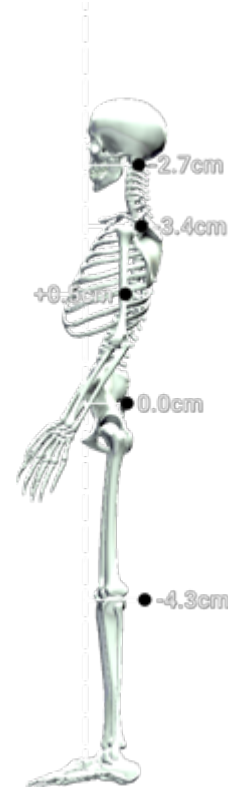
Standing Posture is a baseline postural assessment that can provide insight into an individual's structural balance, alignment, and postural strategy.

## RESULTS

### BALANCE SNAPSHOT



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



### KEY RESULTS

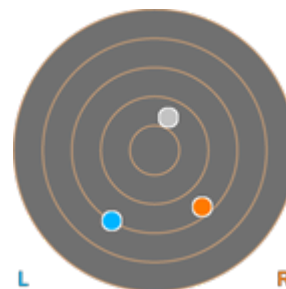
Neck lateral flexion 1.2° **Right** ▼

Trunk lateral flexion 0.1° **Right** ▼

Pelvis Lateral Tilt 0.4° **Left** ▼

Trunk Flexion 1.2° **Posterior**

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



### 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

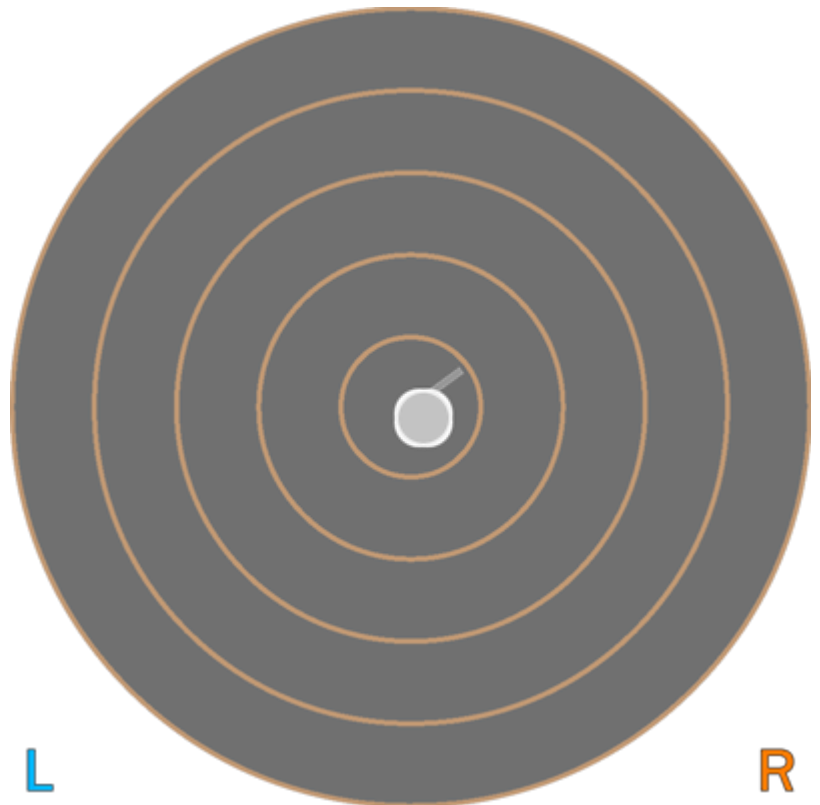
## RESULTS

### BALANCE RESULTS (LEFT)

#### 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

0.62 cm<sup>2</sup>

22.48 cm

1.94 cm

2.10 cm

5.5° Left ▼

3.0° 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

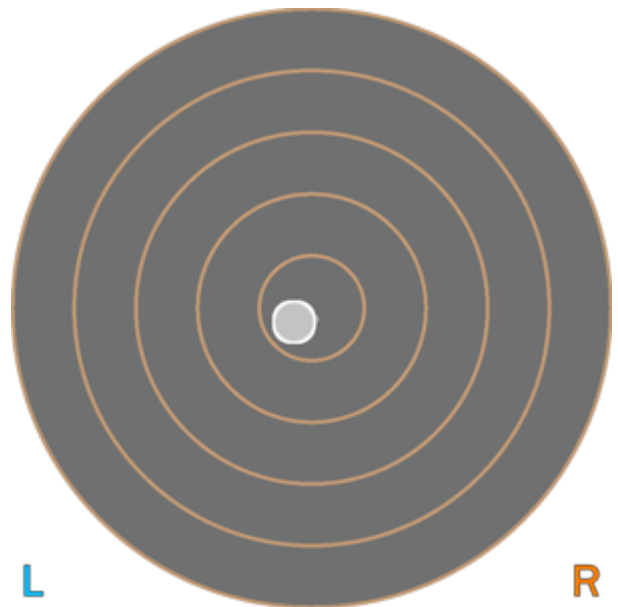
## RESULTS

### 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

0.58 cm<sup>2</sup>

14.30 cm

2.24 cm

1.45 cm

9.0° Right ▼

5.2° Right ▼

#### PRACTITIONER COMMENTS



# Tandem Stand

## Balance Assessment

Standing balance over time is assessed with one foot directly in front of the other.

Eyes	Closed
Surface	Stable
Time	10.0 s

### RESULTS

BALANCE RESULTS (LEFT)	
SNAPSHOT – START OF TEST	CENTER OF MASS PATH
KEY METRICS	RESULTS
Ellipse Area	0.78 cm-2
COM Path Length	24.17 cm
Range – ML	2.58 cm
Range – AP	4.36 cm
Pelvis Lateral Tilt	0.7° Right ▼
Trunk lateral flexion	0.9° Right ▼
PRACTITIONER COMMENTS	




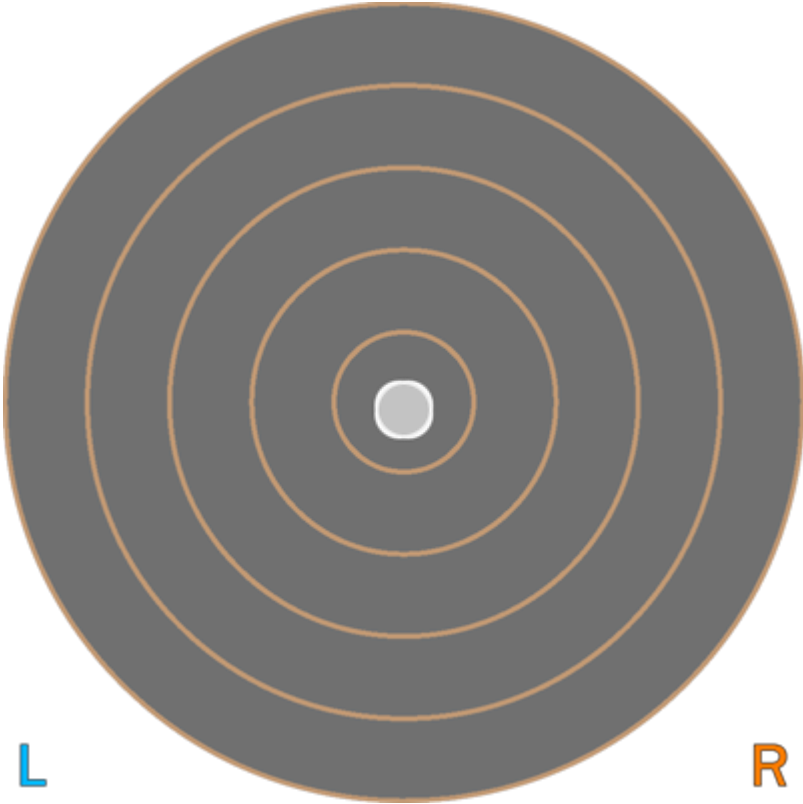
# Tandem Stand

## Balance Assessment

Standing balance over time is assessed with one foot directly in front of the other.

Eyes Closed  
Surface Stable  
Time 10.0 s

## RESULTS

BALANCE RESULTS (RIGHT)	
SNAPSHOT – START OF TEST	CENTER OF MASS PATH
	
KEY METRICS	RESULTS
Ellipse Area	0.99 cm-2
COM Path Length	21.69 cm
Range – ML	3.22 cm
Range – AP	2.17 cm
Pelvis Lateral Tilt	0.4° Left ▼
Trunk lateral flexion	0.2° Right ▼
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°	8.7°	23.8°	32.5°
Trunk Flexion	5.0° Posterior	3.2° Posterior	10.7° Posterior	N/A
Trunk lateral flexion	0.2°	0.7° Right ▼	1.1° Right ▼	N/A

## PRACTITIONER COMMENTS




# Cervical Spine Lateral Flexion

## Range of Motion Assessment

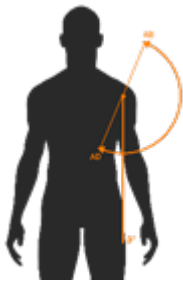
Cervical Spine Lateral Flexion (left and right) is calculated by taking the inclination of the head relative to the line of the trunk in the frontal plane (front view).

### RESULTS

PEAK LEFT LATERAL FLEXION		PEAK RIGHT LATERAL FLEXION	
			
KEY RESULTS	PEAK FLEXION (LEFT)	PEAK FLEXION (RIGHT)	IMBALANCE
Lateral Flexion	19.7°	21.7°	+2.0°
Trunk Flexion	6.7° Posterior	6.4° Posterior	N/A
Trunk lateral flexion at Peak Flexion	4.0° Left ▼	3.7° Right ▼	+0.3°

### PRACTITIONER COMMENTS





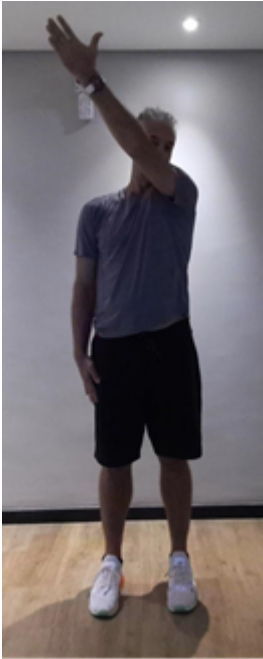
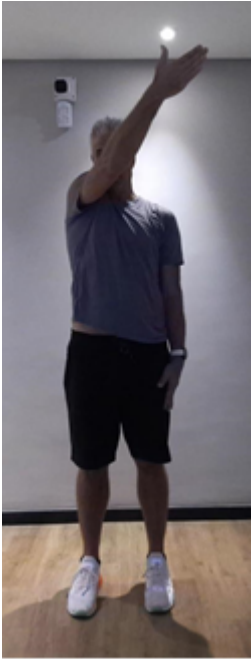


# Shoulder Adduction/Abduction

## 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	108.8°	105.9°	+2.9°
Shoulder Abduction	258.8°	260.3°	+1.5°
Trunk lateral flexion at Peak Abduction	1.4° Left ▼	1.3° Right ▼	+0.0°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )

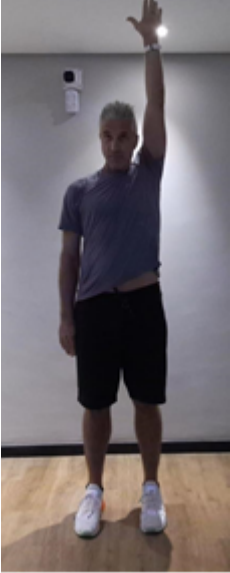
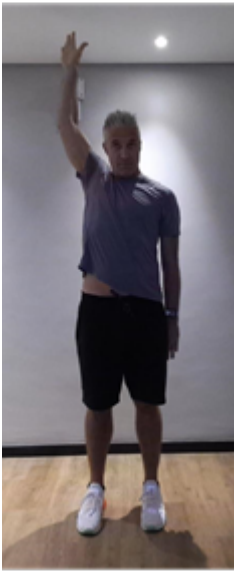




## Shoulder Flexion/Extension

### Range of Motion Assessment

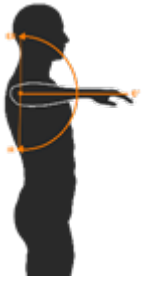
Shoulder Flexion/Extension is calculated by taking the angle created by the humerus (upper arm) relative to the line of the trunk in the sagittal plane (side view).

## RESULTS

PEAK FLEXION		PEAK EXTENSION	
LEFT	RIGHT	LEFT	RIGHT
			
KEY RESULTS	LEFT	RIGHT	IMBALANCE
Shoulder Flexion	188.3°	198.5°	+10.2°
Shoulder Extension	70.4°	81.9°	+11.5°
Trunk lateral flexion at Peak Flexion	0.4° Left ▼	1.5° Left ▼	+1.1°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )



## Shoulder Internal/External Rotation

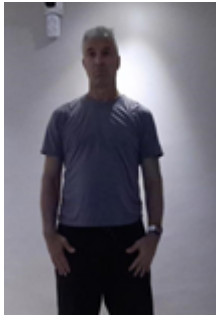
### Range of Motion Assessment

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

68.3°

90.3°

+22.1°

Shoulder External Rotation

91.5°

71.7°

+19.9°

Total ROM

159.8°

162.0°

+2.2°

Trunk lateral flexion  
at Peak Internal Rotation

0.4° Left ▼

2.5° Left ▼

+2.1°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )



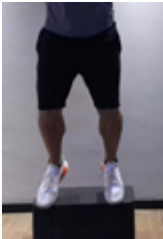
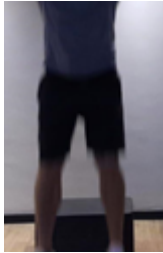
# Drop Jump

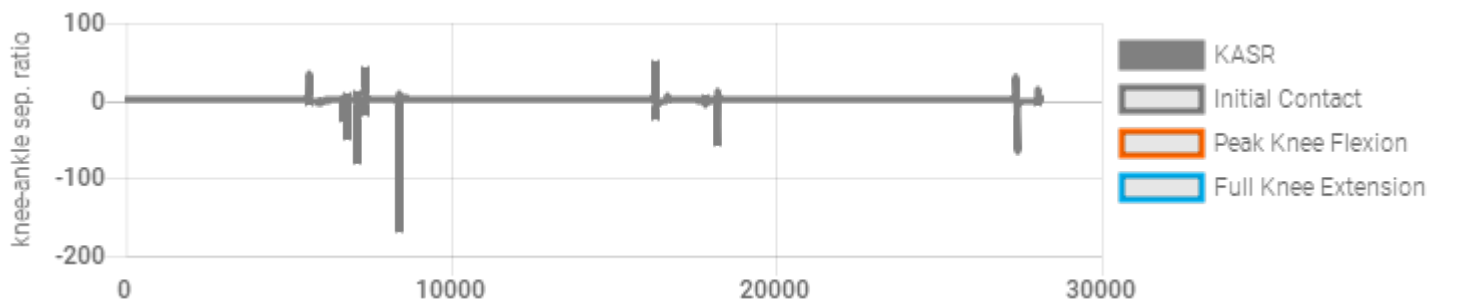
## Lower Body Dynamic Assessment

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	0.9	1.0
Hip Flexion ( Left )	46.4°	42.5°
Hip Flexion ( Right )	53.4°	42.5°
Knee Flexion ( Left )	33.9°	63.7°
Knee Flexion ( Right )	47.6°	61.5°



### PRACTITIONER COMMENTS



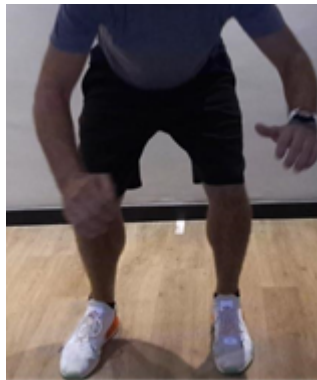
# Countermovement Jump

## 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 40.65 cm

Peak Spine Tilt after landing 42.1° Anterior

Peak Lateral Spine Tilt after landing 5.1° Left

Peak Lateral Pelvic Tilt after landing 4.5° Right

#### KEY METRICS (LEGS)

##### LEFT LEG

##### RIGHT LEG

##### ASYMMETRY

Peak Hip Flexion after landing	84.8°	86.6°	2%
Peak Knee Flexion after landing	76.0°	78.8°	3.5%
Peak Knee Valgus/Varus after landing	31.9° Varus	23° Varus	27.8%

#### 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 ( <span>Left</span> )	98.5°	98.5°	100.3°
Peak Knee Flexion ( <span>Right</span> )	100.3°	102.1°	103.2°
Trunk Flexion at Peak Knee Flexion	31.3° Anterior	31.1° Anterior	30.6° Anterior
Trunk lateral flexion at Peak Knee Flexion	1.5° <span>Right</span> ▼	0.5° <span>Right</span> ▼	0.2° <span>Left</span> ▼

#### PRACTITIONER COMMENTS



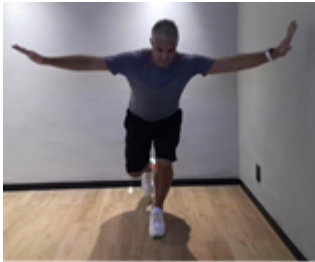


# Single Leg Squat

## 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	68.9°	76.2°	79.2°
Knee Displacement (total)	15.4 cm	23.0 cm	22.3 cm
Peak Knee Valgus	4.3° Valgus	6.6° Valgus	4.9° Valgus
Peak Knee Varus	5.7° Varus	16.8° Varus	10.4° Varus
Trunk lateral flexion at Peak Knee Flexion	2.9° Left ▼	1.4° Left ▼	5.2° Left ▼

### 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	60.5°	59.0°	70.4°
Knee Displacement (total)	14.5 cm	14.5 cm	26.5 cm
Peak Knee Valgus	11.1° Valgus	5.9° Valgus	21° Valgus
Peak Knee Varus	2.5° Varus	5.8° Varus	0.6° Varus
Trunk lateral flexion at Peak Knee Flexion	4.0° Right ▼	12.3° Right ▼	3.9° Right ▼

PRACTITIONER COMMENTS





## 30 Second Sit To Stand

### Lower Body Dynamic Assessment

30 Second Sit To Stand is an assessment that provides information on function leg power and strength of participants.

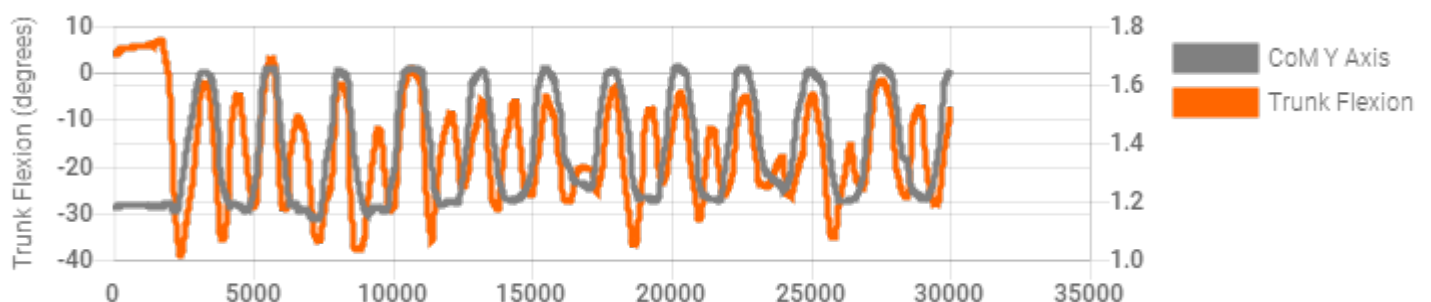
## RESULTS

KEY RESULTS	OVERALL
Successful Repetitions	12
Peak Knee Extension	L 4.1° R 4.7°
Knee Displacement	L 14.9 cm R 16.9 cm
Peak Lateral Trunk Flexion	5.7° Right ▼

### SNAPSHOTS

START	1st REP: PEAK TRUNK FLEXION	Q1 REP: PEAK TRUNK FLEXION	MEDIAN REP: PEAK TRUNK FLEXION	Q3 REP: PEAK TRUNK FLEXION	LAST REP: PEAK TRUNK FLEXION

KEY METRICS	1st REP	Q1 REP	MEDIAN REP	Q3 REP	LAST REP
Knee-Ankle Separation Ratio	1.2	1.2	1.1	1.2	1.1
Lateral Trunk Flexion	0.6° Left ▼	2.7° Right ▼	1.1° Right ▼	0.4° Right ▼	0.6° Right ▼
Knee Flexion	L 79.3° R 82.6°	L 76.8° R 79.2°	L 70.0° R 75.4°	L 75.7° R 80.5°	L 72.1° R 77.8°
Hip Flexion	L 77.7° R 79.0°	L 74.6° R 75.4°	L 67.9° R 71.0°	L 77.9° R 80.9°	L 76.3° R 79.2°
Trunk Flexion	0.6° Anterior	2.7° Posterior	1.1° Posterior	0.4° Posterior	0.6° Posterior






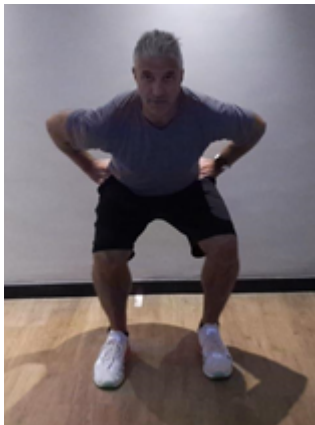
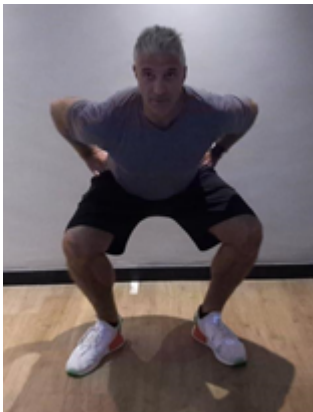
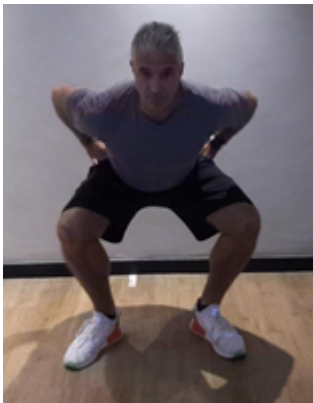


## Squat

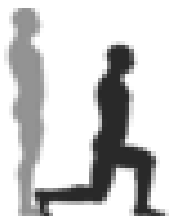
### Lower Body Dynamic Assessment

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> )	108.0°	116.6°	117.9°
Peak Knee Flexion ( <b>Right</b> )	108.5°	119.5°	118.7°
Spine Tilt at Peak Knee Flexion	41.9° Anterior	42.9° Anterior	43.1° Anterior
Trunk lateral flexion at Peak Knee Flexion	4.7° <b>Left</b> ▼	2.1° <b>Left</b> ▼	1.2° <b>Left</b> ▼

## PRACTITIONER COMMENTS



## Lunge

### Lower Body Dynamic Assessment

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

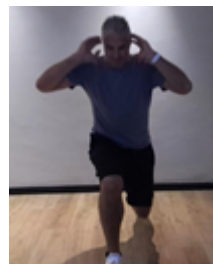
## RESULTS

### PEAK KNEE FLEXION

#### LEFT



#### RIGHT



KEY METRICS	LEFT LEG	RIGHT LEG	ASYMMETRY
Peak Hip Flexion	57.9°	54.3°	6.2%
Peak Knee Flexion	73.2°	71.8°	2%
Peak Spine Lateral Tilt	1.2° Anterior	0.1° Anterior	N/A
Peak Pelvic Lateral Tilt	1.2° Left	0.5° Left	N/A

PRACTITIONER COMMENTS ( **LEFT** )

PRACTITIONER COMMENTS ( **RIGHT** )