

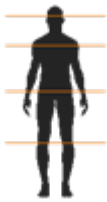
# PROFILE ASSESSMENT

Leonardo Murabito

8<sup>th</sup> September, 2021

## PROFILE INFORMATION

NAME	Leonardo Murabito
ORGANISATION	Alta Allied Health
DATE OF BIRTH	17 <sup>th</sup> May, 1995
GENDER	Male
HEIGHT	182cm / 71in
WEIGHT	82kg / 180lb
AGE	26



## Standing Posture

### Posture and Stability Assessment

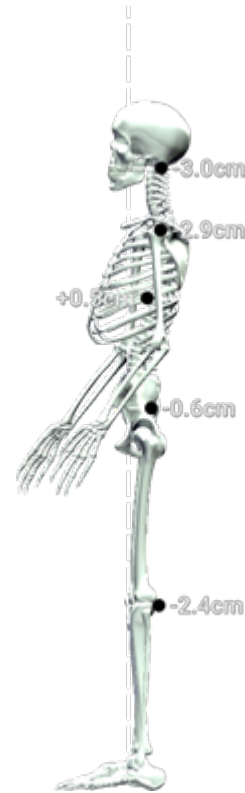
Standing Posture is a baseline postural assessment that can provide insight into an individual's structural balance, alignment, and postural strategy.

## RESULTS

### BALANCE SNAPSHOT



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



### KEY RESULTS

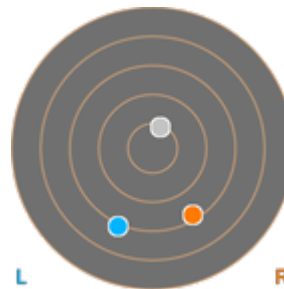
Neck lateral flexion 3.0° Right ▼

Trunk lateral flexion 1.0° Right ▼

Pelvis Lateral Tilt 0.1° Right ▼

Trunk Flexion 3.0° Posterior

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



### PRACTITIONER COMMENTS



## Single Leg Stand

### Posture and Stability Assessment

Single Leg Stand is a postural assessment that can provide insight into an individual's structural balance, alignment, postural strategy and imbalance.

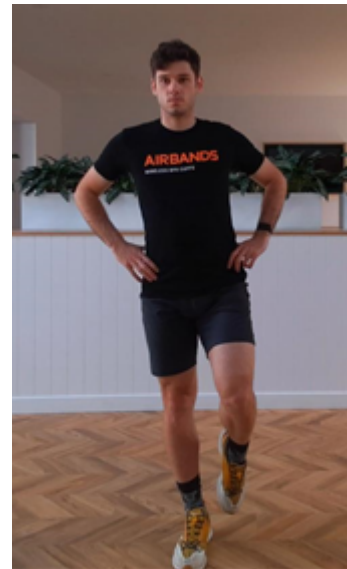
## RESULTS

### SNAPSHOTS

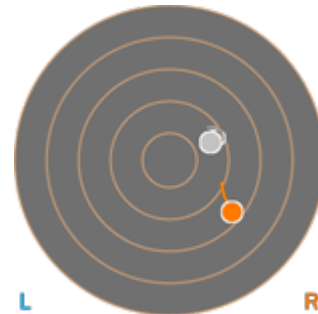
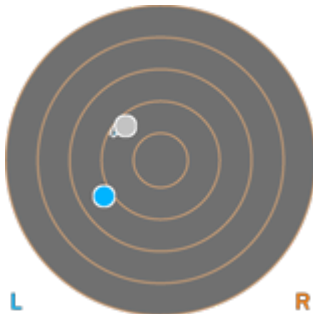
#### LEFT LEG



#### RIGHT LEG



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



KEY RESULTS	LEFT LEG	RIGHT LEG	IMBALANCE
Neck lateral flexion	0.8° Right ▼	6.4° Right ▼	+5.6°
Trunk lateral flexion	3.5° Left ▼	5.0° Right ▼	+1.5°
Pelvis Lateral Tilt	3.9° Left ▼	4.5° Right ▼	+0.6°
Trunk Flexion	0.8° Posterior	6.4° Posterior	N/A

#### PRACTITIONER COMMENTS ( LEFT )

#### PRACTITIONER COMMENTS ( RIGHT )



## Semi-Tandem Stand

### Balance Assessment

Standing balance over time is assessed with the feet together, and one slightly in front of the other.

Eyes Open  
Surface Stable  
Time 10.0 s

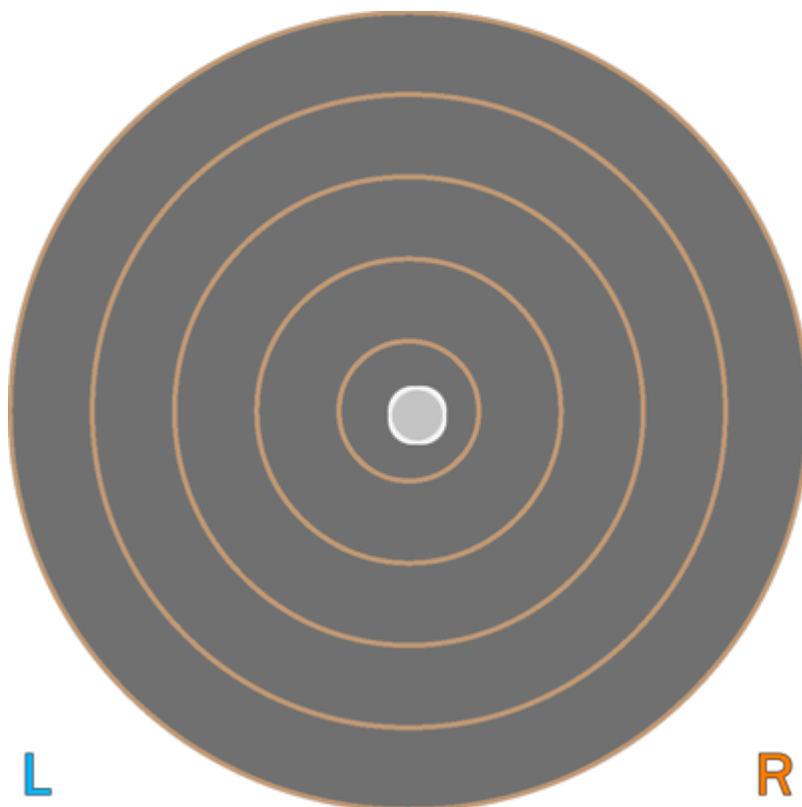
## RESULTS

### BALANCE RESULTS (LEFT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

#### RESULTS

Ellipse Area

0.29 cm<sup>2</sup>

COM Path Length

19.55 cm

Range – ML

2.20 cm

Range – AP

1.99 cm

Pelvis Lateral Tilt

0.7° Left ▼

Trunk lateral flexion

0.7° Left ▼

#### PRACTITIONER COMMENTS



## Semi-Tandem Stand

### Balance Assessment

Standing balance over time is assessed with the feet together, and one slightly in front of the other.

Eyes Open  
Surface Stable  
Time 10.0 s

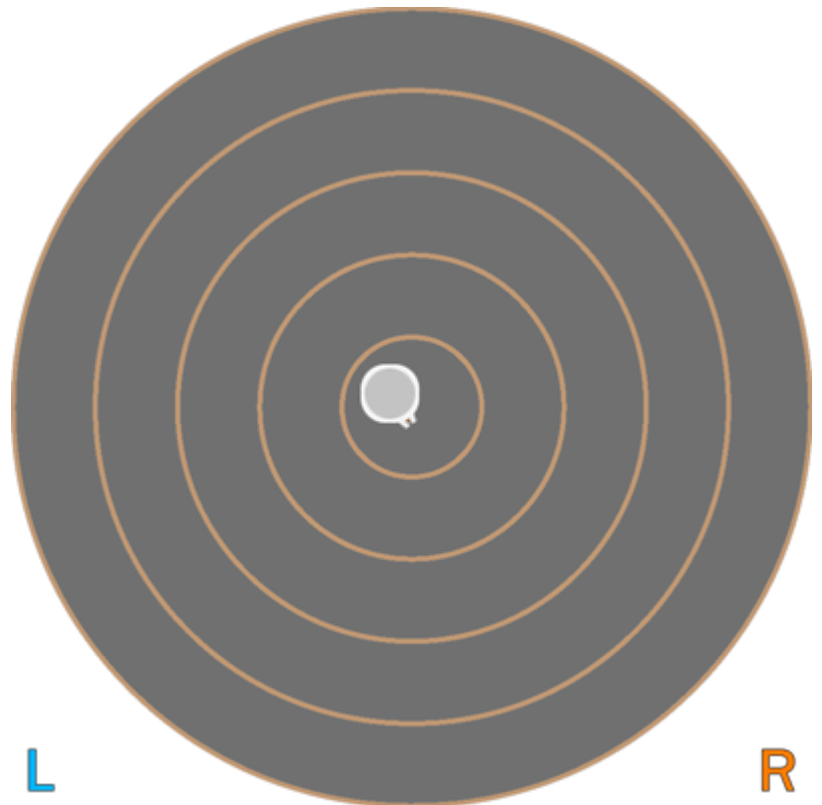
## RESULTS

### BALANCE RESULTS (RIGHT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

#### RESULTS

Ellipse Area	0.62 cm <sup>2</sup>
COM Path Length	20.08 cm
Range – ML	2.45 cm
Range – AP	2.83 cm
Pelvis Lateral Tilt	2.7° Left ▼
Trunk lateral flexion	1.8° Left ▼

#### PRACTITIONER COMMENTS



## Tandem Stand

### Balance Assessment

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

Eyes Open  
Surface Stable  
Time 10.0 s

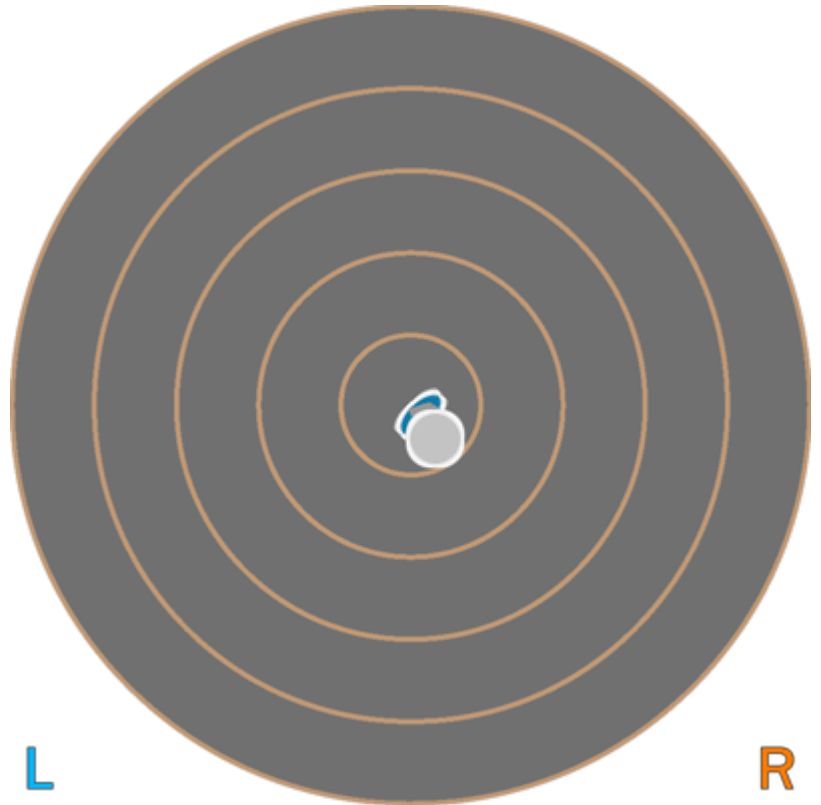
## RESULTS

### BALANCE RESULTS (LEFT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

#### RESULTS

Ellipse Area

1.17 cm<sup>2</sup>

COM Path Length

18.77 cm

Range – ML

4.12 cm

Range – AP

3.62 cm

Pelvis Lateral Tilt

1.6° Left ▼

Trunk lateral flexion

0.4° Left ▼

#### PRACTITIONER COMMENTS



## Tandem Stand

### Balance Assessment

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

Eyes Open  
Surface Stable  
Time 10.0 s

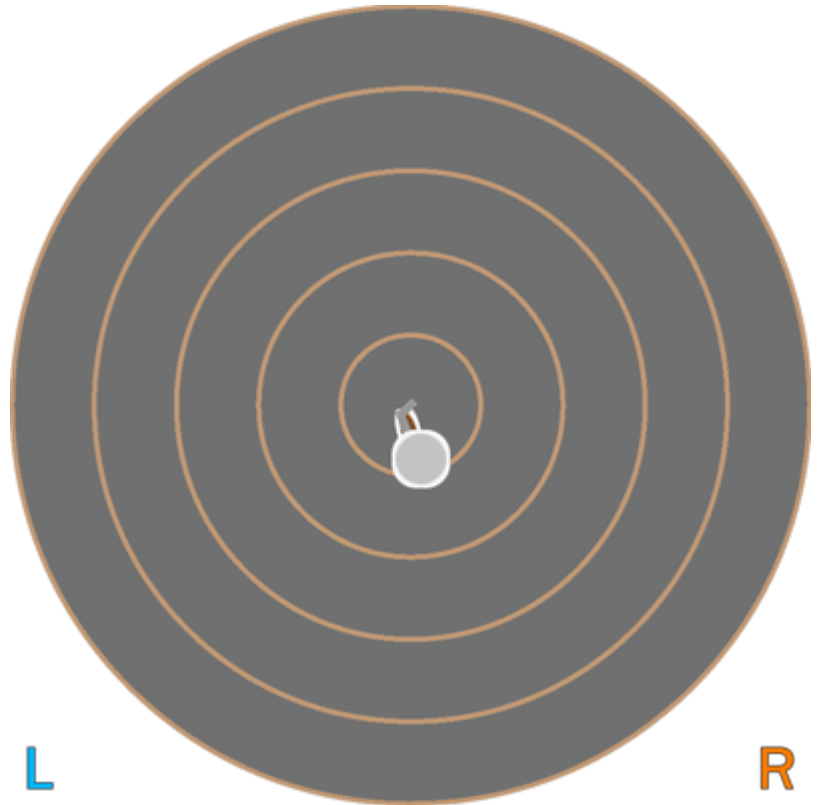
## RESULTS

### BALANCE RESULTS (RIGHT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

#### RESULTS

Ellipse Area

0.61 cm<sup>2</sup>

COM Path Length

19.41 cm

Range – ML

2.43 cm

Range – AP

4.65 cm

Pelvis Lateral Tilt

1.7° Left ▼

Trunk lateral flexion

0.4° 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

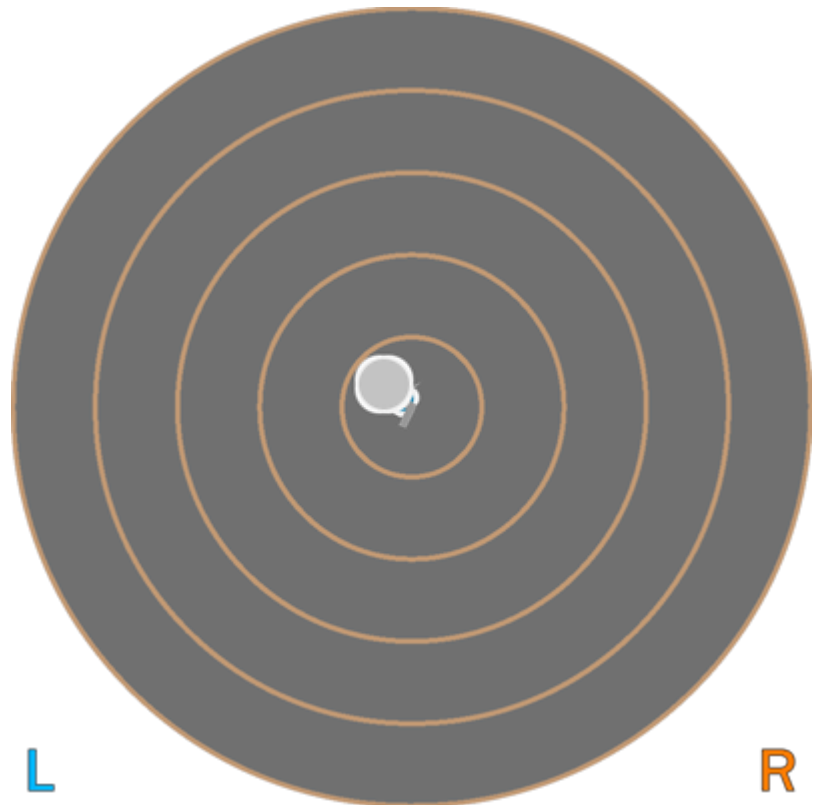
## RESULTS

### BALANCE RESULTS (LEFT)

#### SNAPSHOT – START OF TEST



#### CENTER OF MASS PATH



#### KEY METRICS

#### RESULTS

Ellipse Area	0.57 cm <sup>2</sup>
COM Path Length	23.30 cm
Range – ML	2.89 cm
Range – AP	3.01 cm
Pelvis Lateral Tilt	7.3° Left ▼
Trunk lateral flexion	7.7° 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

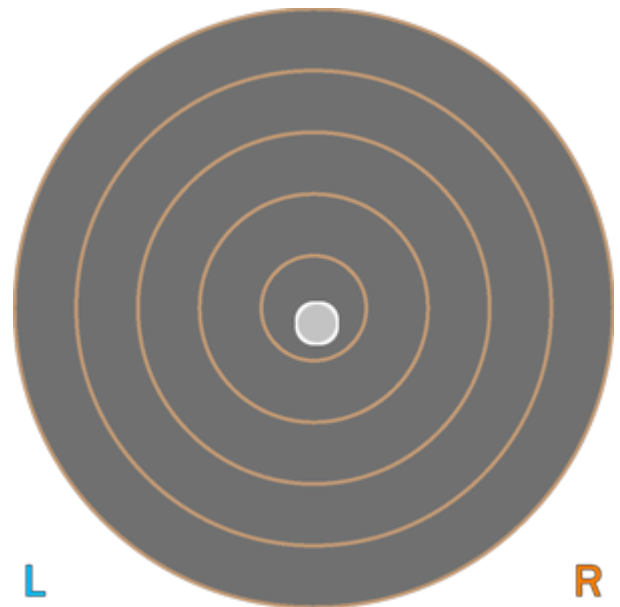
## RESULTS

### 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

1.12 cm<sup>2</sup>

25.88 cm

2.26 cm

3.36 cm

4.6° Right ▼

4.3° Right ▼

#### 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	11.1°	15.6°	+4.5°
Trunk Flexion	5.7° Posterior	6.0° Posterior	N/A
Trunk lateral flexion at Peak Flexion	1.1° Right ▼	0.7° Right ▼	+0.3°

## PRACTITIONER COMMENTS

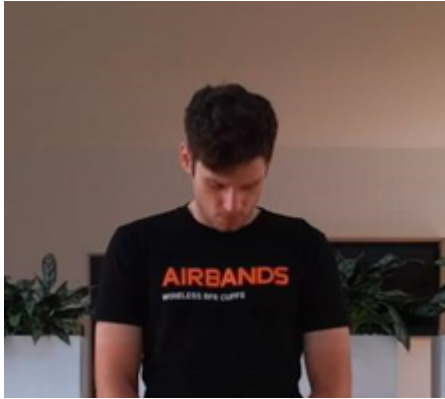



## Cervical Spine Flexion/Extension

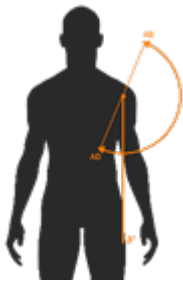
### Range of Motion Assessment

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°	23.4°	4.5°	27.9°
Trunk Flexion	6.4° Posterior	2.4° Posterior	4.2° Posterior	N/A
Trunk lateral flexion	0.2°	0.4° Left ▼	0.9° Left ▼	N/A

## 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	6.6°	25.5°	+18.9°
Shoulder Abduction	169.2°	179.6°	+10.4°
Trunk lateral flexion at Peak Abduction	1.9° Right ▼	3.7° Left ▼	+1.8°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )

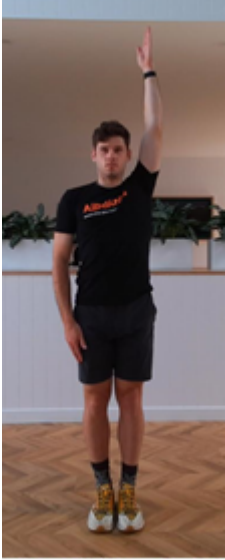
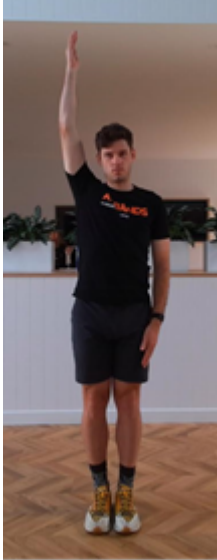

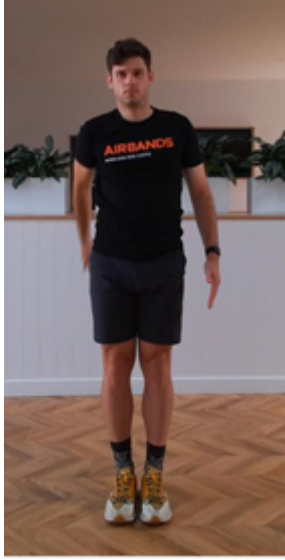


## Shoulder Flexion/Extension

### Range of Motion Assessment

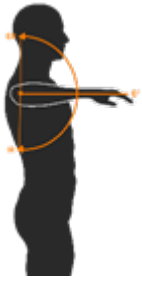
Shoulder Flexion/Extension is calculated by taking the angle created by the humerus (upper arm) relative to the line of the trunk in the sagittal plane (side view).

## RESULTS

PEAK FLEXION		PEAK EXTENSION	
LEFT	RIGHT	LEFT	RIGHT
			
KEY RESULTS	LEFT	RIGHT	IMBALANCE
Shoulder Flexion	180.0°	179.4°	+0.6°
Shoulder Extension	70.3°	59.5°	+10.9°
Trunk lateral flexion at Peak Flexion	0.9° Right ▼	3.9° Left ▼	+3.1°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )



## Shoulder Internal/External Rotation

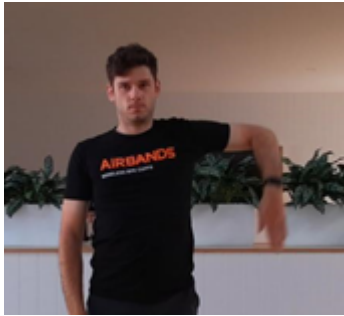
### Range of Motion Assessment

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

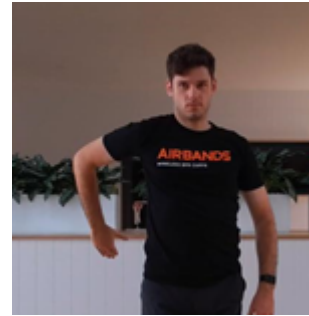
## RESULTS

### PEAK INTERNAL ROTATION

#### LEFT

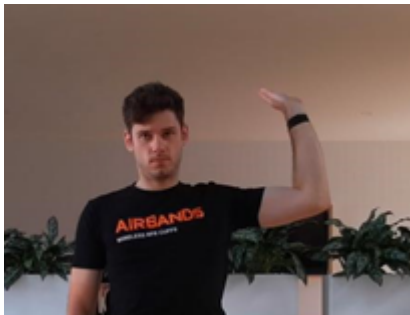


#### RIGHT



### PEAK EXTERNAL ROTATION

#### LEFT



#### RIGHT



#### KEY RESULTS

#### LEFT

#### RIGHT

#### IMBALANCE

Shoulder Internal Rotation

63.9°

92.9°

+29.0°

Shoulder External Rotation

83.4°

94.1°

+10.7°

Total ROM

147.3°

186.9°

+39.6°

Trunk lateral flexion  
at Peak Internal Rotation

3.1° Right ▼

1.0° Left ▼

+2.0°

PRACTITIONER COMMENTS ( LEFT )

PRACTITIONER COMMENTS ( RIGHT )



## Hip Internal/External Rotation

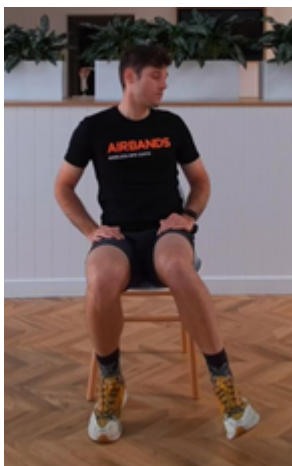
### Range of Motion Assessment

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.

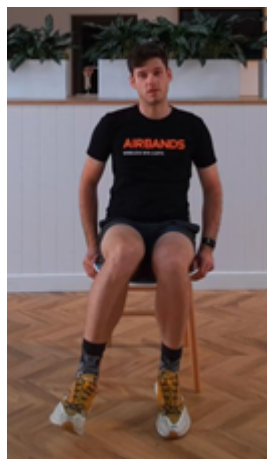
## RESULTS

### PEAK INTERNAL ROTATION

#### LEFT

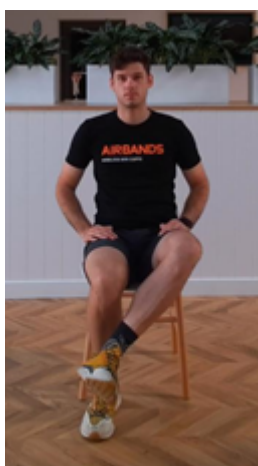


#### RIGHT

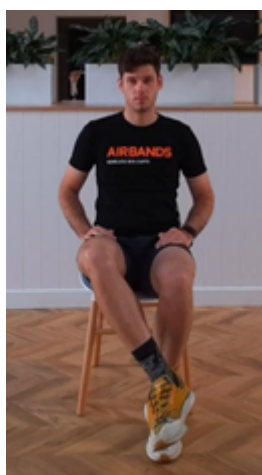


### PEAK EXTERNAL ROTATION

#### LEFT



#### RIGHT



#### KEY RESULTS

#### LEFT

#### RIGHT

#### IMBALANCE

Peak Internal Rotation

20.3°

15.7°

+4.6°

Peak External Rotation

39.9°

29.5°

+10.4°

Total ROM

60.2°

45.2°

+15.0°

PRACTITIONER COMMENTS ( **LEFT** )

PRACTITIONER COMMENTS ( **RIGHT** )




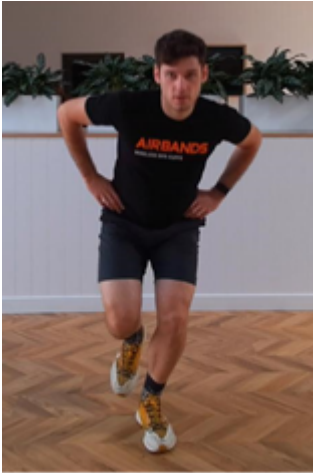
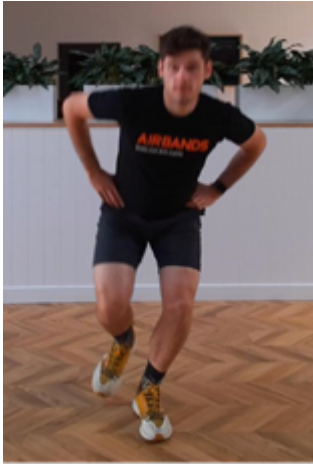
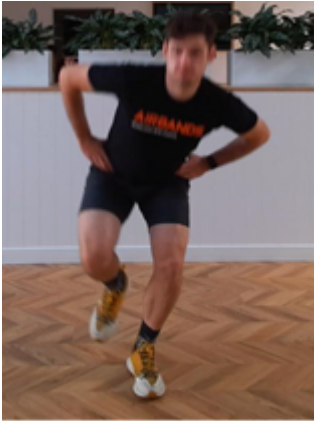


## Single Leg Squat

### 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	71.7°	69.0°	78.2°
Knee Displacement (total)	3.7 cm	8.9 cm	11.6 cm
Peak Knee Valgus	0.0°	0.0°	0.0°
Peak Knee Varus	6.7° Varus	11.2° Varus	14.5° Varus
Trunk lateral flexion at Peak Knee Flexion	8.9° Left ▼	7.1° Left ▼	13.2° 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	75.7°	81.4°	87.9°
Knee Displacement (total)	8.9 cm	9.0 cm	6.3 cm
Peak Knee Valgus	4.4° Valgus	6.7° Valgus	7.4° Valgus
Peak Knee Varus	1.3° Varus	3.2° Varus	1.7° Varus
Trunk lateral flexion at Peak Knee Flexion	8.6° Right ▼	9.2° Right ▼	7.9° Right ▼

#### PRACTITIONER COMMENTS







# Squat

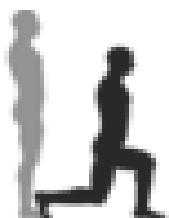
## Lower Body Dynamic Assessment

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> )	101.2°	106.8°	114.9°
Peak Knee Flexion ( <b>Right</b> )	106.0°	112.4°	121.5°
Spine Tilt at Peak Knee Flexion	42.7° Anterior	46.6° Anterior	47.1° Anterior
Trunk lateral flexion at Peak Knee Flexion	1.8° <b>Left</b> ▼	3.5° <b>Left</b> ▼	1.0° <b>Left</b> ▼

## PRACTITIONER COMMENTS



## Lunge

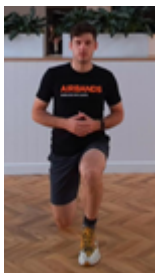
### Lower Body Dynamic Assessment

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

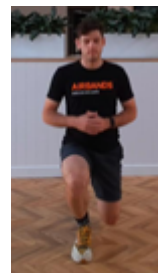
## RESULTS

### PEAK KNEE FLEXION

#### LEFT



#### RIGHT



KEY METRICS	LEFT LEG	RIGHT LEG	ASYMMETRY
Peak Hip Flexion	76.2°	75.0°	1.5%
Peak Knee Flexion	96.9°	110.7°	12.5%
Peak Spine Lateral Tilt	3.1° Anterior	0.3° Anterior	N/A
Peak Pelvic Lateral Tilt	1.6° Left	0.6° Right	N/A

PRACTITIONER COMMENTS ( **LEFT** )

PRACTITIONER COMMENTS ( **RIGHT** )



# 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

33.81 cm

##### Peak Spine Tilt after landing

30.1° Anterior

##### Peak Lateral Spine Tilt after landing

5.7° Left

##### Peak Lateral Pelvic Tilt after landing

2.3° Right

#### KEY METRICS (LEGS)

##### LEFT LEG

##### RIGHT LEG

##### ASYMMETRY

##### Peak Hip Flexion after landing

73.9°

77.6°

4.8%

##### Peak Knee Flexion after landing

82.5°

83.0°

0.6%

##### Peak Knee Valgus/Varus after landing

34.6° Varus

26.4° Varus

23.5%

#### PRACTITIONER COMMENTS


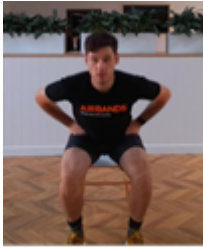
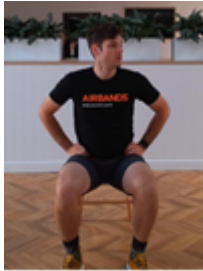


## Sit To Stand

### Lower Body Dynamic Assessment

Sit to Stand is a pathway assessment to the Repeated Sit to Stand Test. This test provides information on functional leg power and strength.

## RESULTS

KEY RESULTS	OVERALL		
Peak Knee Extension	L 7.6° R 5.6°		
Knee Displacement	L 8.8 cm R 8.4 cm		
Peak Lateral Trunk Flexion	1.9° Left ▼		
PHASE	INITIAL	MID-POINT	FINAL
SNAPSHOTS			
KEY METRICS	BEGINNING POSITION	PEAK TRUNK FLEXION	END POSITION
Knee-Ankle Separation Ratio	1.1	1.1	1.2
Lateral Trunk Flexion	1.3° Left ▼	0.2° Right ▼	0.1° Right ▼
Knee Flexion	L 89.3° R 89.2°	L 73.9° R 81.3°	L 103.4° R 105.1°
Hip Flexion	L 75.3° R 74.3°	L 83.2° R 89.1°	L 83.6° R 84.1°
Trunk Flexion	3.4° Posterior	37.9° Anterior	6.7° Anterior
PRACTITIONER COMMENTS			



## Stand to Sit

### Lower Body Dynamic Assessment

Stand to Sit is an assessment on how well an individual can sit down without external support. This test provides information on lower limb stability, balance and strength.

## RESULTS

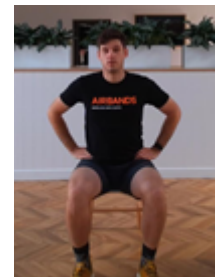
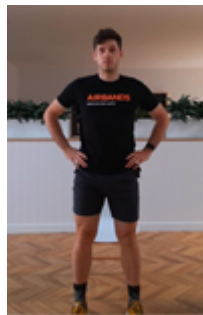
KEY RESULTS	OVERALL
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Knee Displacement **L** 9.1 cm **R** 7.4 cm

Peak Lateral Trunk Flexion 1.8° **Right** ▼

PHASE	INITIAL	MID-POINT	FINAL
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### SNAPSHOTS



KEY METRICS	BEGINNING POSITION	PEAK TRUNK FLEXION	END POSITION
Knee-Ankle Separation Ratio	0.8	1.1	1.2
Lateral Trunk Flexion	1.6° <b>Left</b> ▼	0.7° <b>Right</b> ▼	0.2° <b>Right</b> ▼
Knee Flexion	<b>L</b> 6.1° <b>R</b> 8.1°	<b>L</b> 76.9° <b>R</b> 83.6°	<b>L</b> 101.0° <b>R</b> 101.9°
Hip Flexion	<b>L</b> 1.3° <b>R</b> 1.9°	<b>L</b> 83.7° <b>R</b> 87.3°	<b>L</b> 86.1° <b>R</b> 87.3°
Trunk Flexion	0.5° Posterior	32.2° Anterior	2.8° Anterior

### 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.

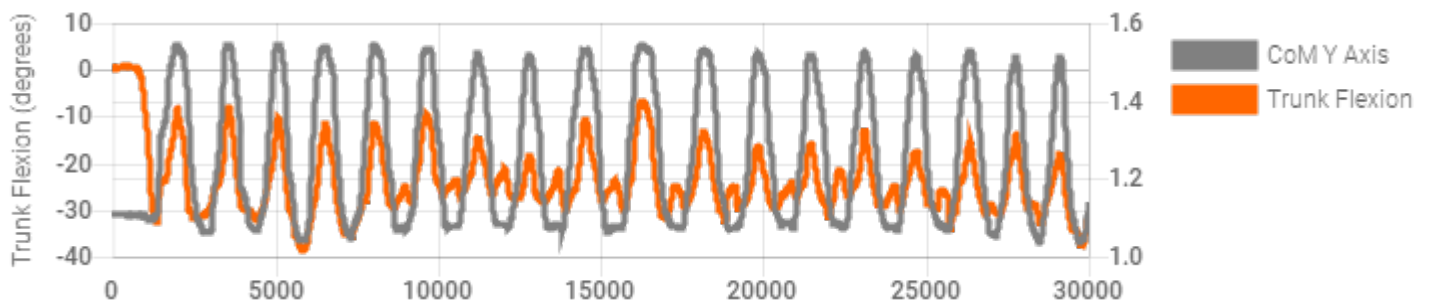
## RESULTS

KEY RESULTS	OVERALL
Successful Repetitions	18
Peak Knee Extension	L 5.3° R 4.7°
Knee Displacement	L 12.7 cm R 9.9 cm
Peak Lateral Trunk Flexion	3.7° Left ▼

### 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	1.1	1.2	1.1	1.2	1.1
Lateral Trunk Flexion	0.4° Left ▼	0.6° Left ▼	0.3° Right ▼	1.3° Right ▼	0.0° Left ▼
Knee Flexion	L 77.4° R 83.3°	L 89.3° R 91.6°	L 75.9° R 77.8°	L 77.9° R 82.6°	L 77.8° R 83.8°
Hip Flexion	L 75.8° R 77.4°	L 87.4° R 87.4°	L 75.3° R 74.9°	L 77.1° R 78.3°	L 75.8° R 78.9°
Trunk Flexion	0.4° Anterior	0.6° Anterior	0.3° Posterior	1.3° Posterior	0.0° Anterior



### DRACITIONER COMMENTS



## 5 Repetition Sit to Stand

### Lower Body Dynamic Assessment

5 Repetition Sit to Stand is an assessment that provides information on function leg power and strength of participants.

## RESULTS

KEY RESULTS	OVERALL
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Peak Knee Extension 7.0°

Knee Displacement **L** 10.5 cm **R** 11.1 cm

Peak Lateral Trunk Flexion 3.5° **Right** ▼

### SNAPSHOTS

START	REP 1: PEAK TRUNK FLEXION	REP 2: PEAK TRUNK FLEXION	REP 3: PEAK TRUNK FLEXION	REP 4: PEAK TRUNK FLEXION	REP 5: PEAK TRUNK FLEXION
					

KEY METRICS	REP 1	REP 2	REP 3	REP 4	REP 5
Knee-Ankle Separation Ratio	1.0	1.1	1.0	1.2	1.1
Lateral Trunk Flexion	1.0° <b>Right</b> ▼	0.7° <b>Left</b> ▼	1.6° <b>Left</b> ▼	0.6° <b>Right</b> ▼	0.6° <b>Right</b> ▼
Knee Flexion	<b>L</b> 77.9° <b>R</b> 81.1°	<b>L</b> 76.6° <b>R</b> 78.3°	<b>L</b> 72.3° <b>R</b> 73.4°	<b>L</b> 86.8° <b>R</b> 87.7°	<b>L</b> 86.3° <b>R</b> 87.8°
Hip Flexion	<b>L</b> 77.3° <b>R</b> 80.0°	<b>L</b> 79.6° <b>R</b> 80.5°	<b>L</b> 75.7° <b>R</b> 75.7°	<b>L</b> 84.6° <b>R</b> 85.0°	<b>L</b> 84.0° <b>R</b> 84.8°
Trunk Flexion	25.9° Anterior	28.6° Anterior	28.6° Anterior	25.3° Anterior	25.2° Anterior

### PRACTITIONER COMMENTS





## Drop Jump


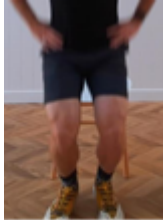
### Lower Body Dynamic Assessment

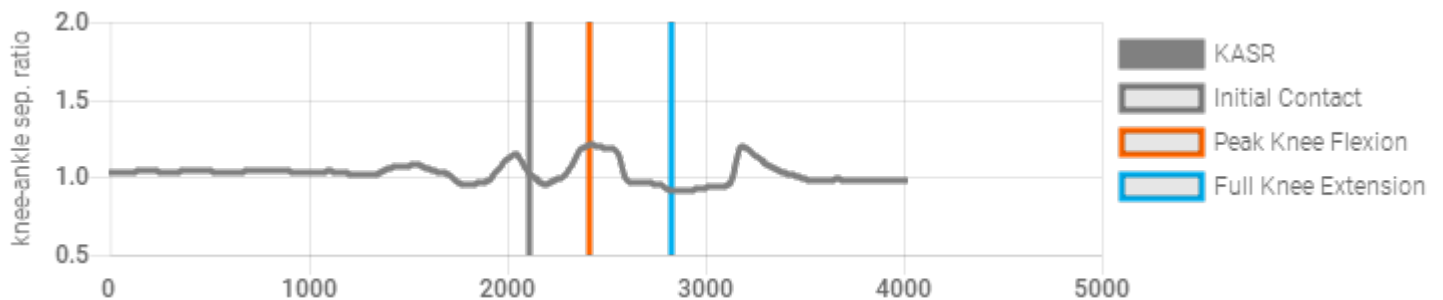
Drop Jump is used to assess coordination, balance, joint stability and power, requiring the patient to drop from a box or platform and transition from landing into an explosive jump .

Height

unspecified

## RESULTS

PHASE	Initial Contact	Peak Knee Flexion
SNAPSHOTS		
Result		
Knee-Ankle Separation Ratio	1.0	1.2
Hip Flexion ( Left )	25.5°	58.3°
Hip Flexion ( Right )	23.1°	63.0°
Knee Flexion ( Left )	12.3°	79.1°
Knee Flexion ( Right )	14.2°	81.9°



## 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> )	127.7°	129.3°	130.4°
Peak Knee Flexion ( <b>Right</b> )	125.6°	131.2°	130.8°
Trunk Flexion at Peak Knee Flexion	24.6° Anterior	24.1° Anterior	21.6° Anterior
Trunk lateral flexion at Peak Knee Flexion	1.9° <b>Right</b> ▼	0.8° <b>Left</b> ▼	1.2° <b>Right</b> ▼
PRACTITIONER COMMENTS			