

PROFILE ASSESSMENT

Cassio de Oliveira Barbosa

5th February, 2024

PROFILE INFORMATION

NAME	Cassio de Oliveira Barbosa
ORGANISATION	On Morumbi Clinica Medica
DATE OF BIRTH	20 th July, 1978
GENDER	Male
HEIGHT	169cm / 66in
WEIGHT	67kg / 147lb
AGE	45



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

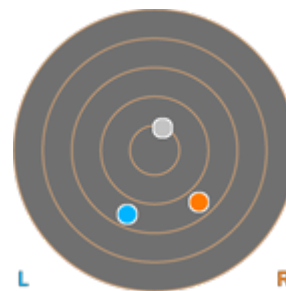
Neck lateral flexion 2.3° **Right** ▼

Trunk lateral flexion 0.1° **Left** ▼

Pelvis Lateral Tilt 0.6° **Left** ▼

Trunk Flexion 2.3° **Posterior**

SWAYTRAK MOVEMENT PATHS (KNEES AND CENTRE OF MASS)



PRACTITIONER COMMENTS

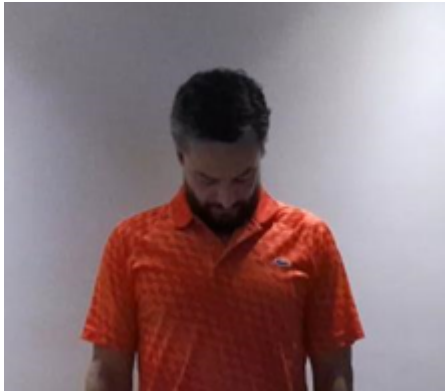



Cervical Spine Flexion/Extension

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°	29.2°	1.6°	30.7°
Trunk Flexion	5.2° Posterior	1.5° Posterior	4.4° Posterior	N/A
Trunk lateral flexion	0.2°	0.4° Left ▼	0.3° Left ▼	N/A

PRACTITIONER COMMENTS



Cervical Spine Lateral Flexion

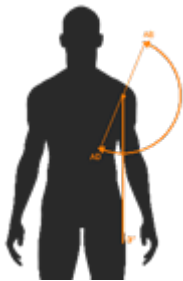
Range of Motion Assessment

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	14.8°	21.8°	+7.0°
Trunk Flexion	4.3° Posterior	3.3° Posterior	N/A
Trunk lateral flexion at Peak Flexion	2.4° Left ▼	3.2° Right ▼	+0.8°

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	9.8°	13.8°	+3.9°
Shoulder Abduction	184.4°	182.7°	+1.7°
Trunk lateral flexion at Peak Abduction	1.2° Right ▼	2.3° Left ▼	+1.2°

PRACTITIONER COMMENTS (LEFT)

PRACTITIONER COMMENTS (RIGHT)


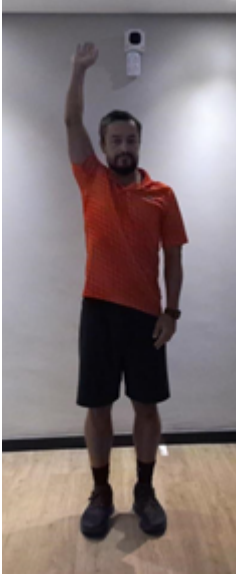




Shoulder Flexion/Extension

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	189.7°	179.5°	+10.2°
Shoulder Extension	61.3°	66.3°	+5.0°
Trunk lateral flexion at Peak Flexion	0.8° Right ▼	1.6° Left ▼	+0.8°

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	58.3°	35.0°	+23.3°
Shoulder External Rotation	78.7°	91.7°	+13.1°
Total ROM	137.0°	126.8°	+10.2°
Trunk lateral flexion at Peak Internal Rotation	1.2° Right ▼	1.8° Left ▼	+0.6°

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.

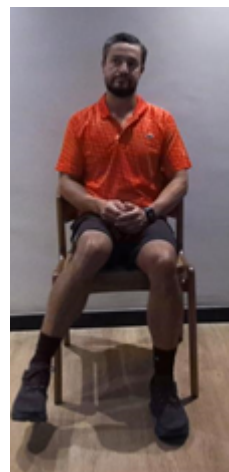
RESULTS

PEAK INTERNAL ROTATION

LEFT



RIGHT

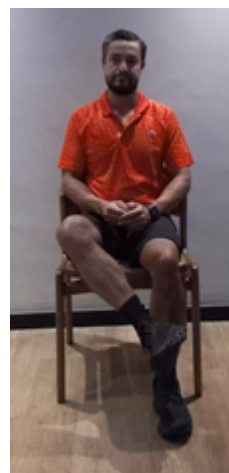


PEAK EXTERNAL ROTATION

LEFT



RIGHT



KEY RESULTS

LEFT

RIGHT

IMBALANCE

Peak Internal Rotation

20.9°

20.9°

+0.0°

Peak External Rotation

40.3°

44.2°

+3.9°

Total ROM

61.2°

65.1°

+4.0°

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

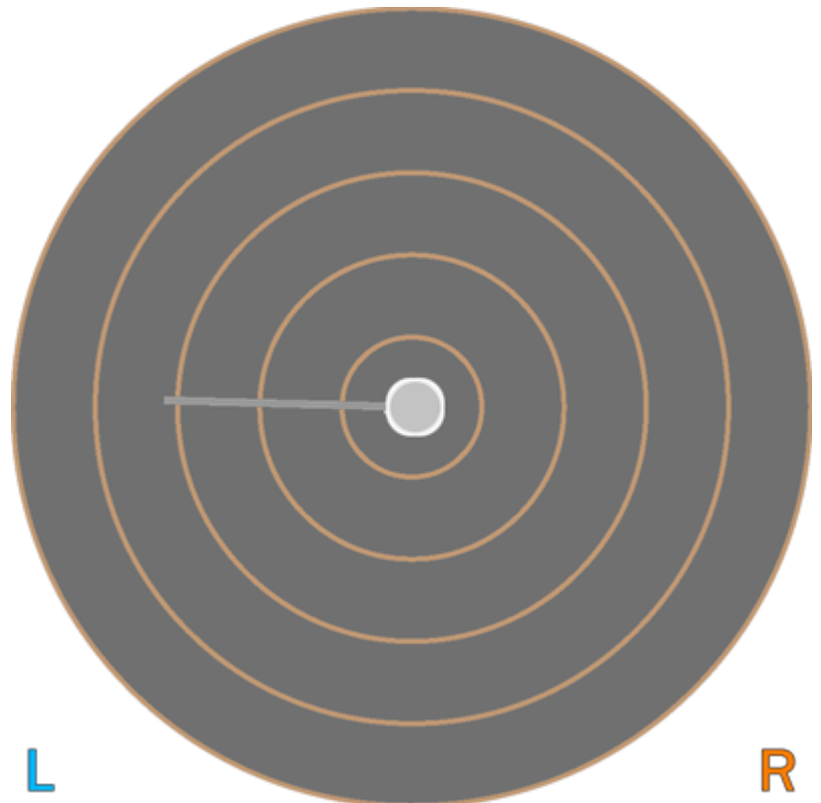
RESULTS

BALANCE RESULTS (LEFT)

SNAPSHOT – START OF TEST



CENTER OF MASS PATH



KEY METRICS

RESULTS

Ellipse Area	0.06 cm ²
COM Path Length	9.61 cm
Range – ML	0.66 cm
Range – AP	0.76 cm
Pelvis Lateral Tilt	7.7° Left ▼
Trunk lateral flexion	4.1° 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

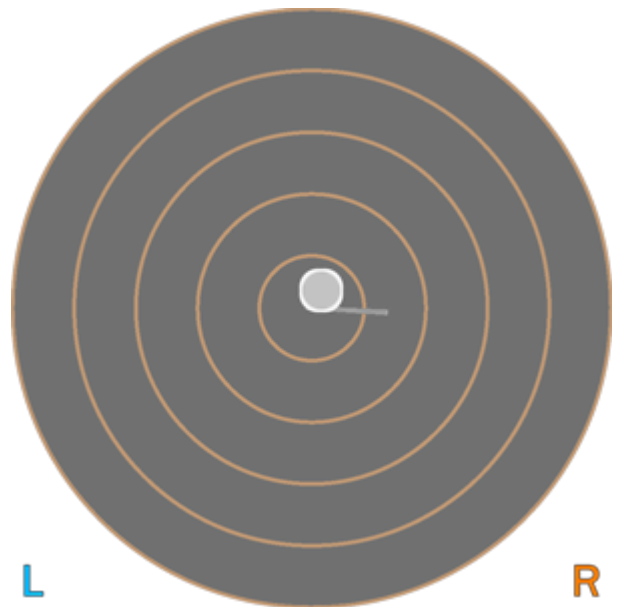
RESULTS

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

0.27 cm²

12.30 cm

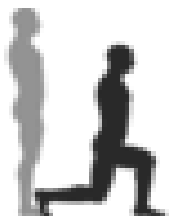
1.36 cm

2.24 cm

7.1° Right ▼

4.2° 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	55.9°	84.6°	33.9%
Peak Knee Flexion	74.6°	107.2°	30.4%
Peak Spine Lateral Tilt	2.8° Posterior	0.1° Posterior	N/A
Peak Pelvic Lateral Tilt	3.2° Right	0.1° Right	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 (Left)	134.3°	132.6°	135.5°
Peak Knee Flexion (Right)	138.9°	136.2°	138.2°
Spine Tilt at Peak Knee Flexion	47.5° Anterior	45.9° Anterior	42.2° Anterior
Trunk lateral flexion at Peak Knee Flexion	0.5° Right ▼	0.4° Right ▼	0.2° Left ▼

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 (Left)	144.0°	145.0°	147.9°
Peak Knee Flexion (Right)	147.4°	148.3°	148.5°
Trunk Flexion at Peak Knee Flexion	29.3° Anterior	30.9° Anterior	28.6° Anterior
Trunk lateral flexion at Peak Knee Flexion	0.1° Left ▼	0.0° Left ▼	0.0° Right ▼
PRACTITIONER COMMENTS			



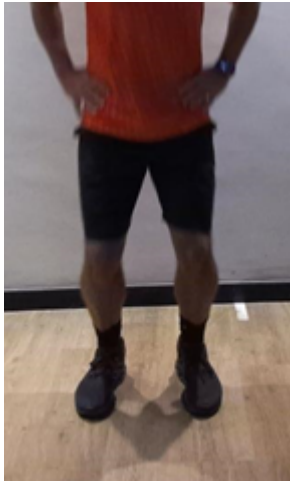
Countermovement Jump

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 33.99 cm

Peak Spine Tilt after landing 11.3° Anterior

Peak Lateral Spine Tilt after landing 0.9° Left

Peak Lateral Pelvic Tilt after landing 1.9° Right

KEY METRICS (LEGS)

LEFT LEG

RIGHT LEG

ASYMMETRY

Peak Hip Flexion after landing 42.0° 41.5° 1.1%

Peak Knee Flexion after landing 62.8° 62.2° 0.9%

Peak Knee Valgus/Varus after landing 12.4° Varus 5.6° Varus 54.5%

PRACTITIONER COMMENTS




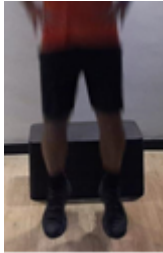
Drop Jump

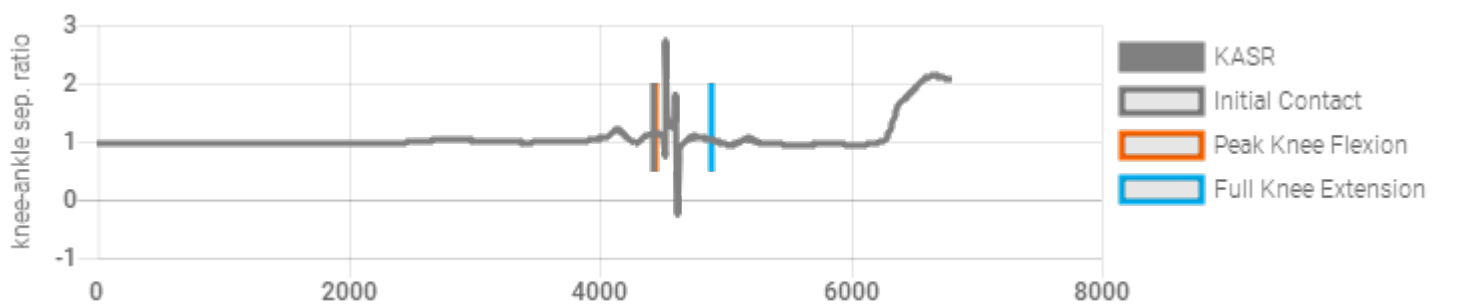
Lower Body Dynamic Assessment

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	1.1	1.1
Hip Flexion (Left)	47.2°	47.4°
Hip Flexion (Right)	45.9°	45.8°
Knee Flexion (Left)	74.0°	74.6°
Knee Flexion (Right)	73.8°	73.9°



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	105.8°	105.2°	108.8°
Knee Displacement (total)	12.7 cm	9.5 cm	11.4 cm
Peak Knee Valgus	5.3° Valgus	5° Valgus	3.2° Valgus
Peak Knee Varus	10.4° Varus	7.8° Varus	6.7° Varus
Trunk lateral flexion at Peak Knee Flexion	3.9° Left ▼	4.5° Left ▼	5.4° 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	90.4°	105.2°	115.8°
Knee Displacement (total)	14.4 cm	13.5 cm	16.8 cm
Peak Knee Valgus	5° Valgus	5.8° Valgus	14.2° Valgus
Peak Knee Varus	7° Varus	14.3° Varus	7.4° Varus
Trunk lateral flexion at Peak Knee Flexion	6.9° Right ▼	4.1° Right ▼	4.3° Right ▼

PRACTITIONER COMMENTS