GaitON®

Standing Posture Analysis
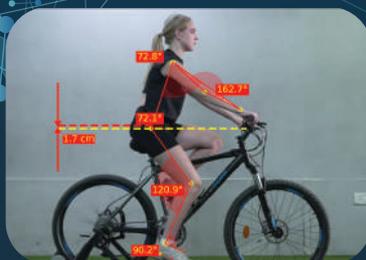

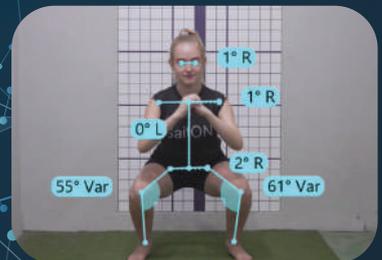**Walking Gait analysis**

Running Gait Analysis

Sitting Posture Analysis

Bike Fitting Analysis

Squat Analysis

GaitON® is trusted by **500+ clinicians**
globally for gait & posture analysis
Is your center GaitON® ready?

WORKFLOW

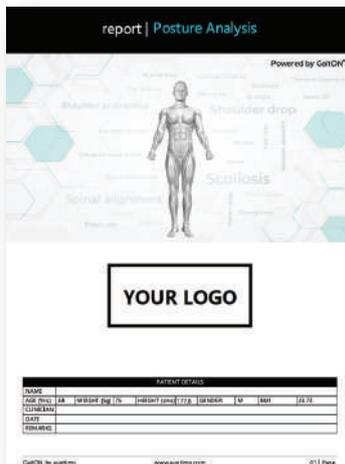**A 3 step process to complete a biomechanical assessment**

1. CAPTURE

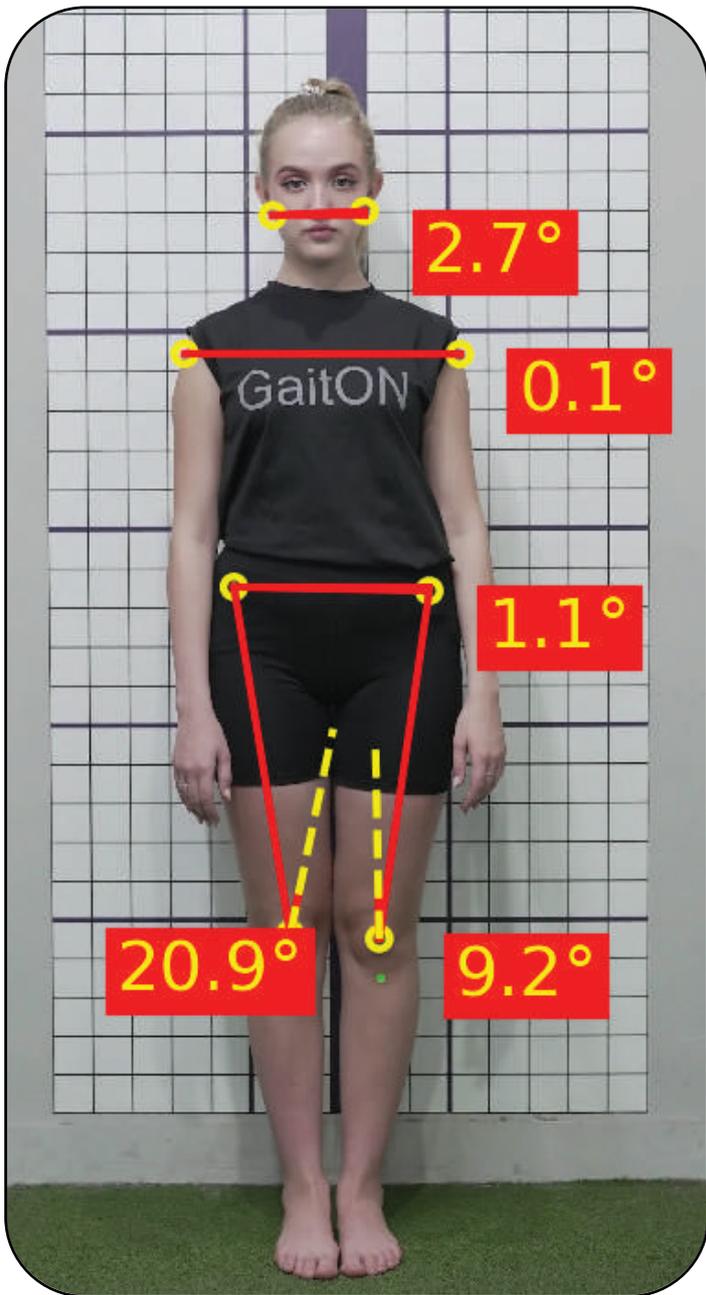Capture the patient's motion from multiple views using cameras.

2. ANALYZE

Analyse the motion using GaitON's inbuilt protocols.

3. REPORT

Export the analysis results to well organised and print ready reports.

2.7°

0.1°

1.1°

20.9° 9.2°

GaitON's posture analysis protocol identifies key postural deviations from multiple views & exports all data to a report.

VIEWS ANALYZED

ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS
5 MINUTES

21.0°

183.1°

95.3°
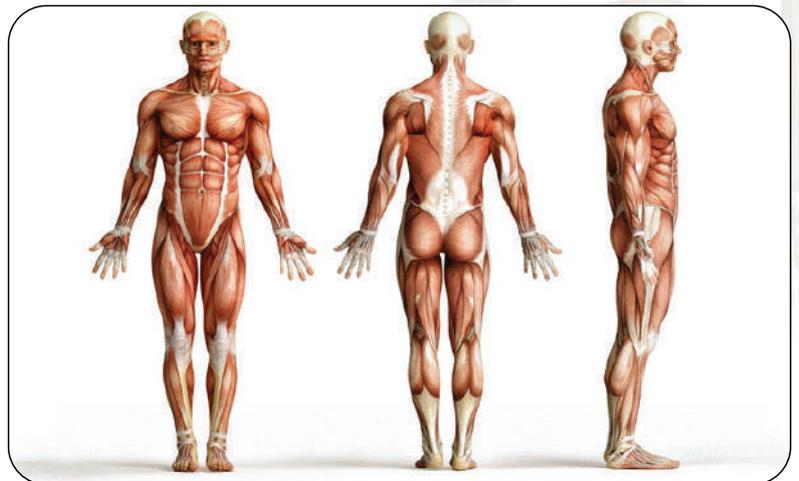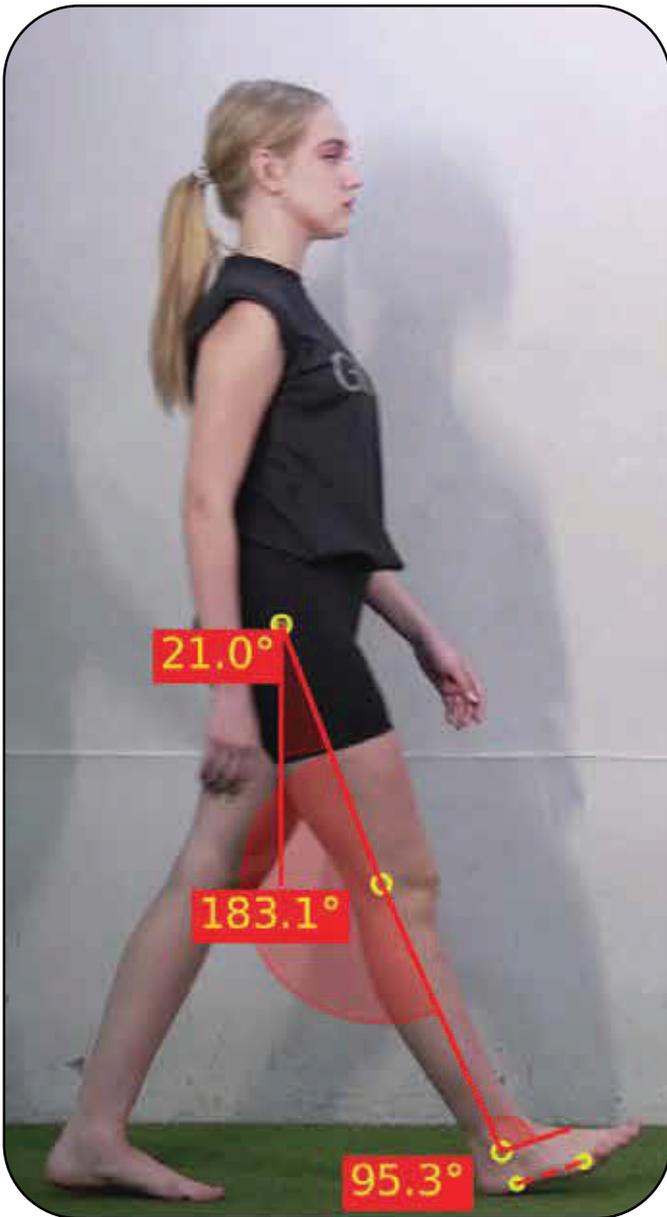
GaitON's gait analysis protocol identifies key walking deviations from multiple views & exports all data to a report.

VIEWS ANALYZED

ANTERIOR . POSTERIOR . LATERAL

SURFACE
TREADMILL I WALKWAY

GaitON's running analysis protocol is based on the directives of UW Health Sports Medicine Clinic, USA & detects any abnormal running gait patterns.
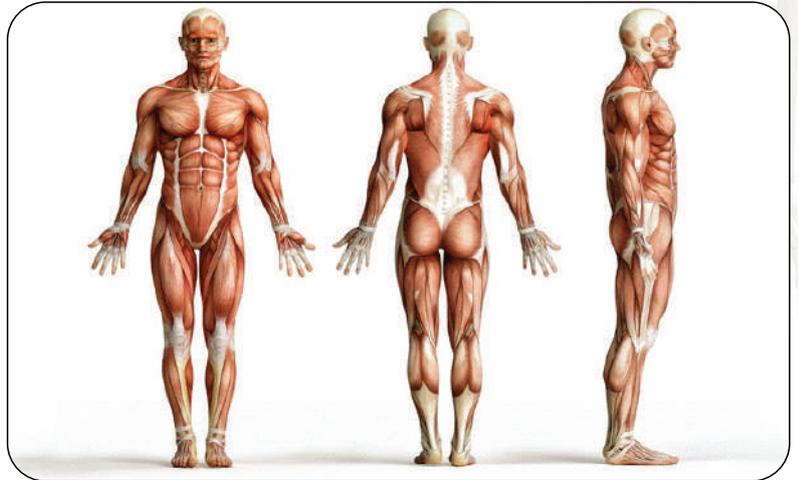
VIEWS ANALYZED

ANTERIOR . POSTERIOR . LATERAL

SURFACE

TREADMILL I RUNNING TRACK

SITTING POSTURE ANALYSIS

76.6 cm
31.3°
136.0°
15.8° to 35.2°
82.2°
17.1°
89.5°
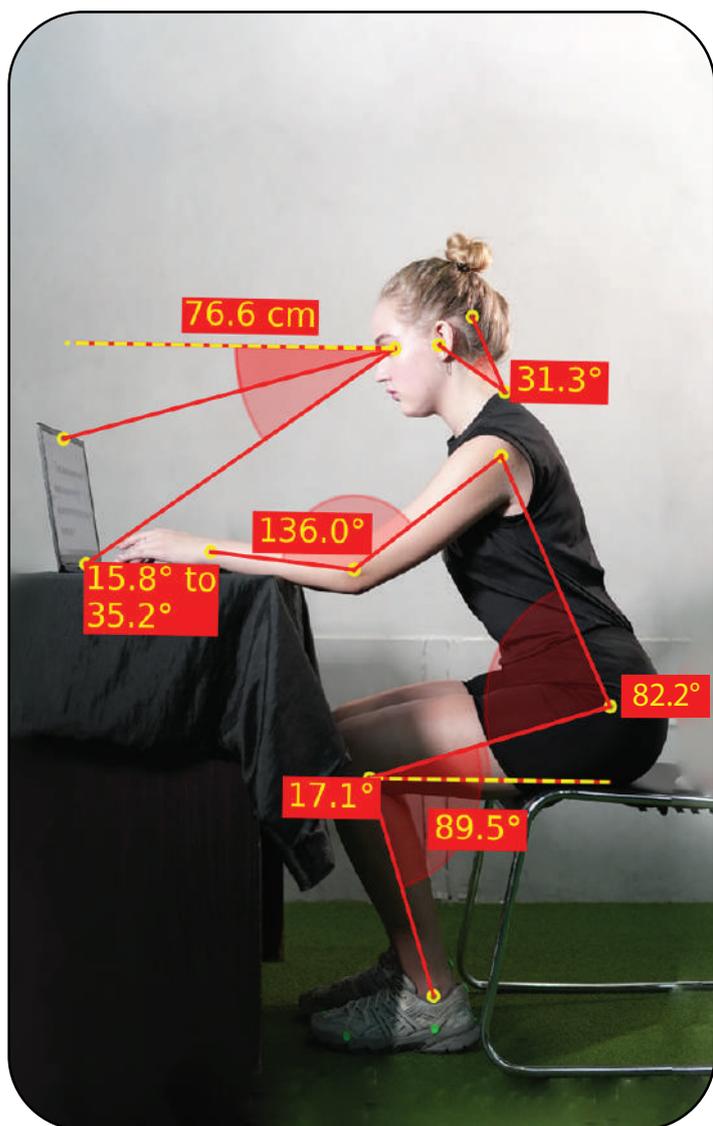
GaitON's sitting posture analysis markerless protocol identifies key postural deviations in a few clicks & exports all data to a report.
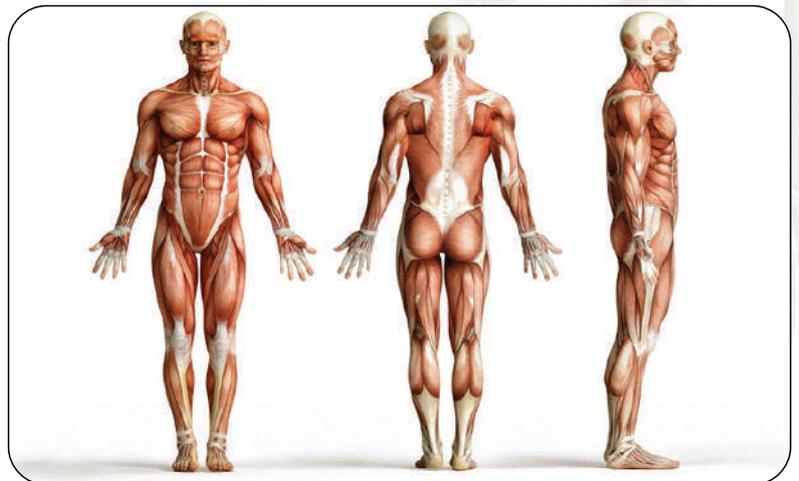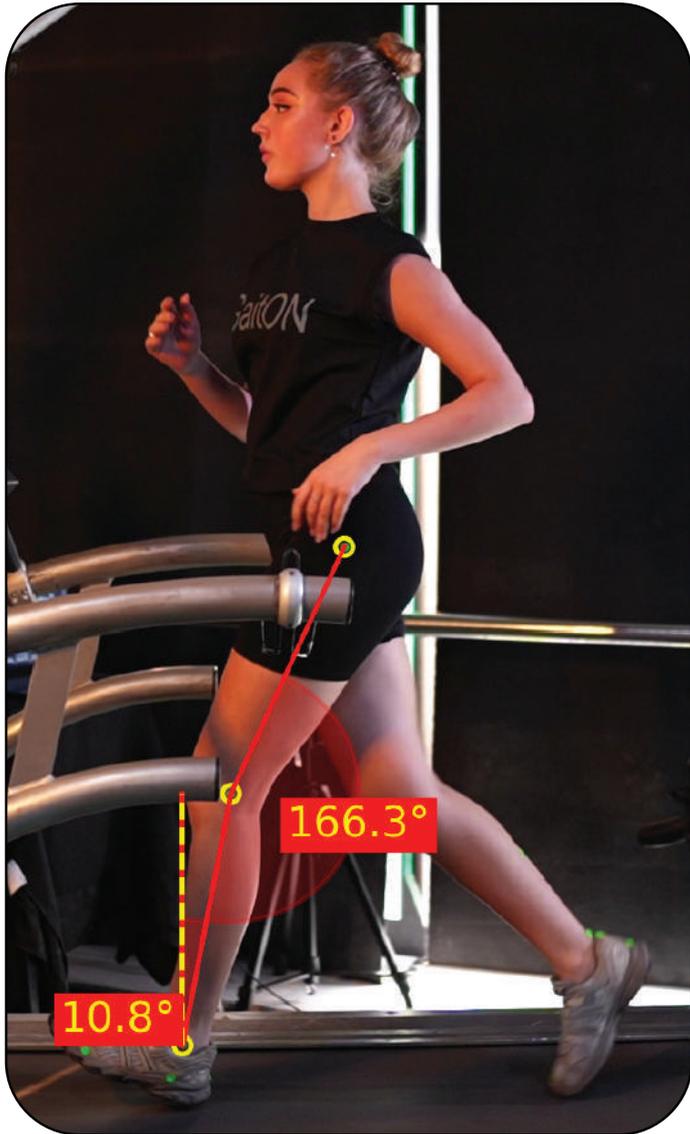
VIEWS ANALYZED
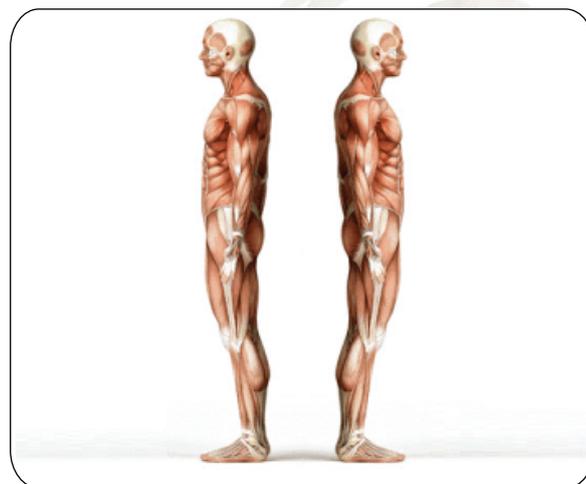
ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS
5 MINUTES

BIKE FITTING ANALYSIS

72.8°

162.7°

72.1°

1.7 cm

120.9°

90.2°

GaitON® bike fitting software is used by 500+ clinicians globally for a detailed bike fit assessment. It helps in adjusting the bike as per the rider's body measurements, flexibility, riding goals, and any existing injuries.
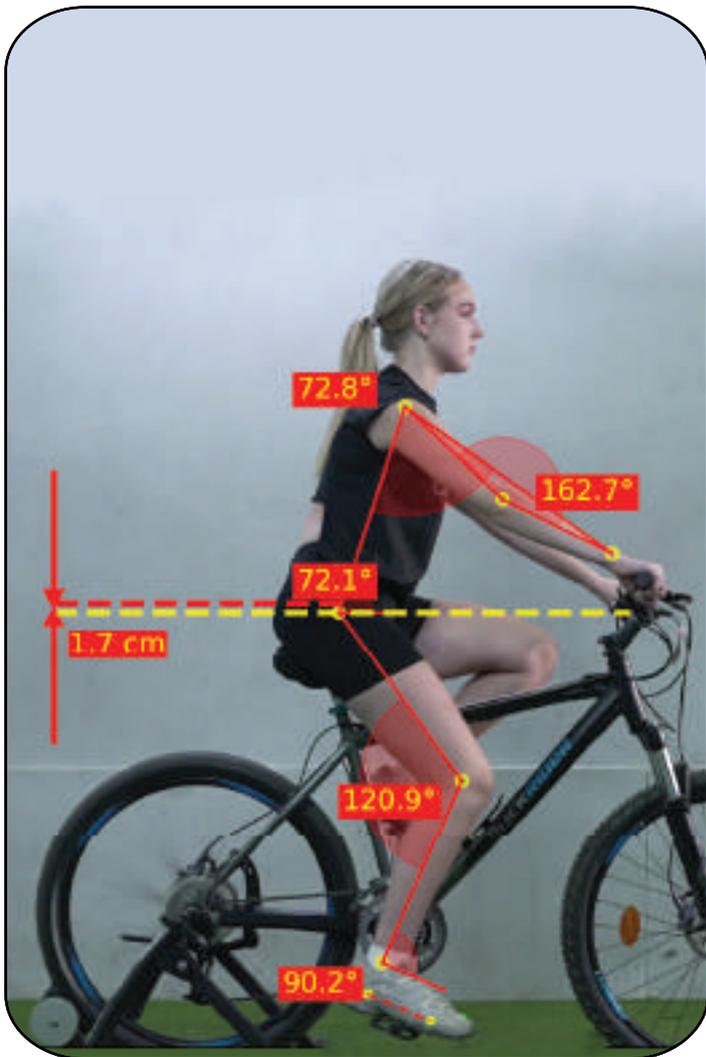
VIEWS ANALYZED

LATERAL AND ANTERIOR VIEW

POSITIONS

ROAD, MTB, TT, TRIATHLETE

1° R
3° L
1° L
0° L
51° Var
53° Var
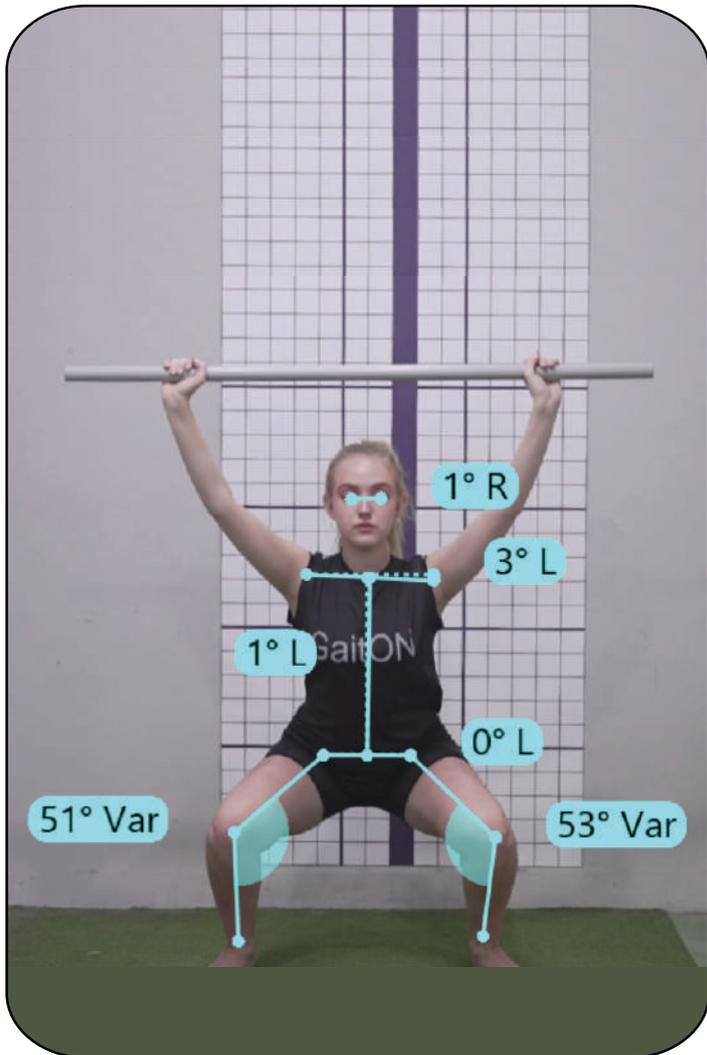
GaitON® squat analysis software is used by 500+ centers globally for a precise and realtime analysis of squat patterns.

VIEWS ANALYZED

LATERAL AND ANTERIOR VIEW

SQUAT VARIATIONS
FREE, GOBLET, BACK, FRONT, OVERHEAD & MORE!

SPORTS SPECIFIC PROTOCOLS

TENNIS SERVE ANALYSIS

Posterolateral View
All nodes are evaluated at the position of maximum knee bend

Assessment of serve biomechnics

OVERVIEW

The following table gives an overview of the various biomechanical faults present during the tennis serve along with the list of the probable causes.

POSTERO LATERAL VIEW				ANTERIOR VIEW			
Knee bend	Yes	✓	No	Foot position	Yes		No	✓
Posterior Hip tilt	Yes		No	✓				
Counter hip rotation	Yes		No	✓				
Trunk hip Separation	Yes	✓	No					
Shoulder Alignment	Yes	✓	No					

OBSERVATIONS		
Fault name	Common injuries	Common causes
1. Foot position	Increased load on trunk or shoulder	Hip and/or trunk flexibility and strength
2. Posterior hip tilt	Increased load on shoulder and trunk; Inability to push through increasing load on abdominals.	Hip and trunk flexion flexibility and strength
3. Counter hip	Increased load on	Hip and trunk flexion flexibility and

Identification of musculoskeletal problems behind biomechanical faults

GOLF SWING ANALYSIS

ADDRESS | down the line

Preparation phase for hitting the golf ball

128.1
150.04

Assessment of serve biomechnics

OVERVIEW

The following table gives an overview of the various biomechanical faults present during the golf swing along with the list of the probable causes.

| DOWN THE LINE / LATERAL VIEW				FACE ON / ANTERIOR VIEW			
Posture	Neutral		✓	Reverse Spine Angle	Yes		No	✓
	S Posture			Slide	Yes	✓	No	
	C Posture			Sway	Yes		No	✓
Loss of Posture	Yes		No	✓	Scooping	Yes		No	✓
Early Extension	Yes	✓	No		Chicken Wing	Yes		No	✓
Over the Top	Yes		No	✓				

OBSERVATIONS		
Fault name	Common injuries	Common causes
1. Early Extension	Low Back Pain	Poor squat mechanics Decreased lead hip internal rotation Poor thoracic rotation Inability to separate torso from hips Weak gluteals and abdominals
2. Slide	Hip pain Medial knee pain Lateral ankle pain	Decreased lead hip internal rotation Difficulty separating upper body

Identification of musculoskeletal problems behind biomechanical faults

GaitON® is used by 500+ clinicians globally for:

1. Diagnosis of posture & gait disorders

2. Pre-post surgical/rehabilitation comparison

3. Monitoring effects of Orthotics/External supporting gear

4. Screening camps at schools/corporates.

GAIT ANALYSIS

15.7°

185.2°

96.3°
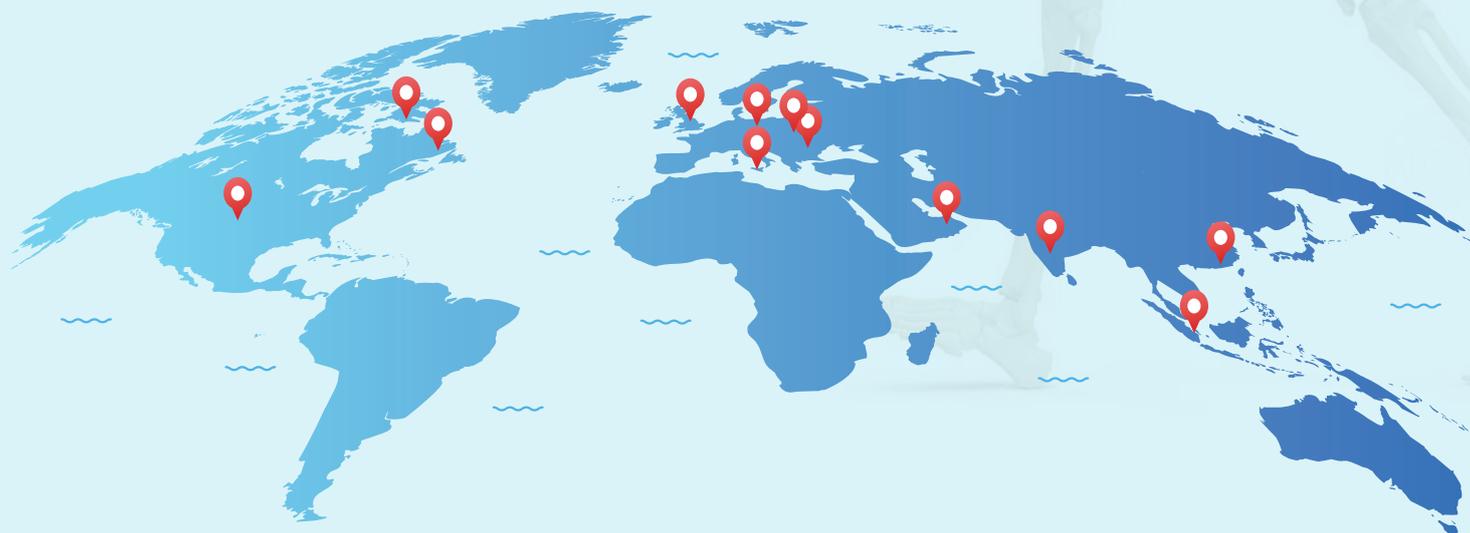
SETUP

AMRITA HOSPITAL
FARIDABAD
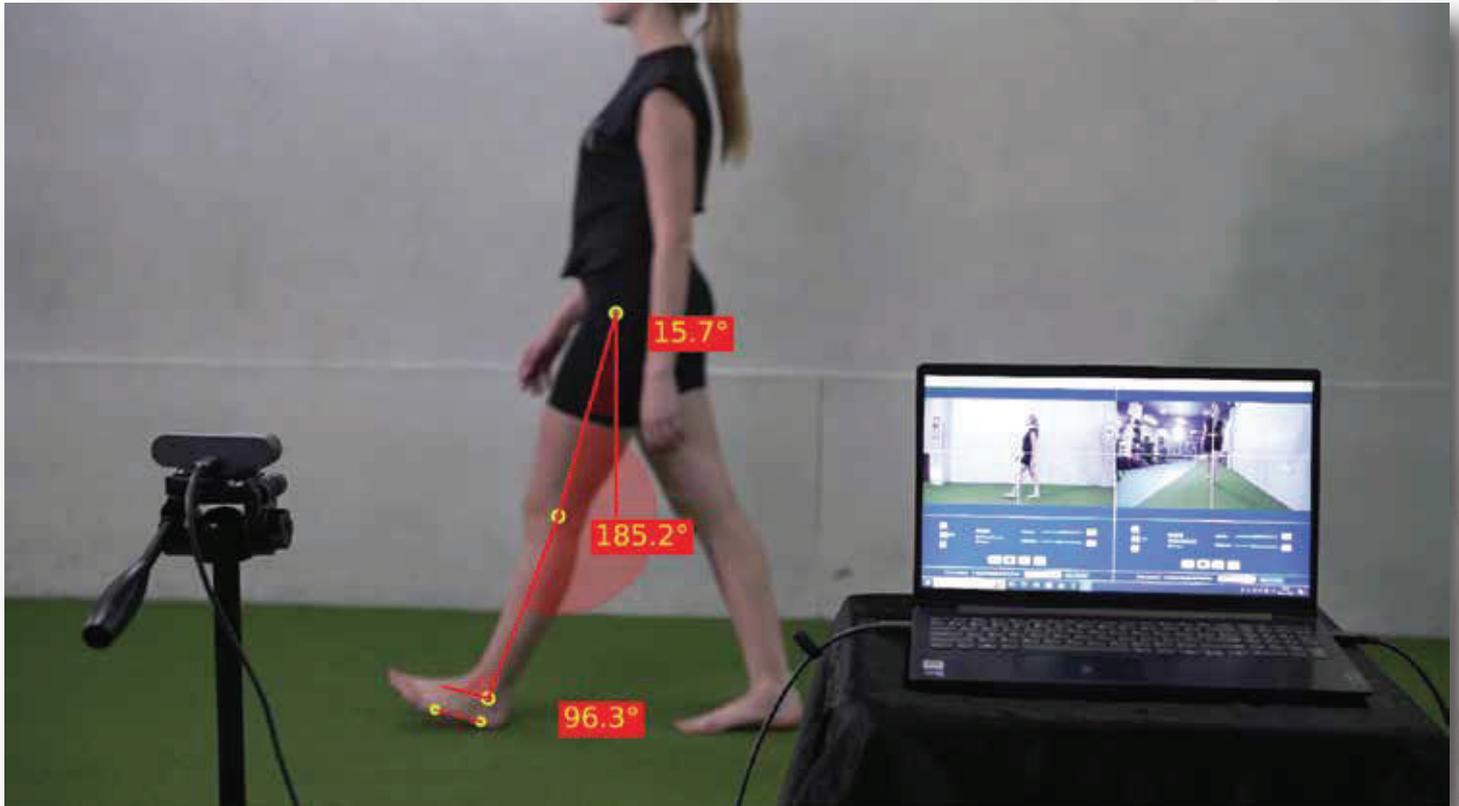
Embrace Good Health

Amrita hospital, Kochi/
Faridabad (India)

📷 2 Digital Cameras

Walkway

GaitON GaitON® Software

GAIT ANALYSIS

SETUP

4 Digital Cameras

Treadmill

GaitON® Software

Delhi Foot
ORTHOPEDIC EXCELLENCE IN FOOT CARE
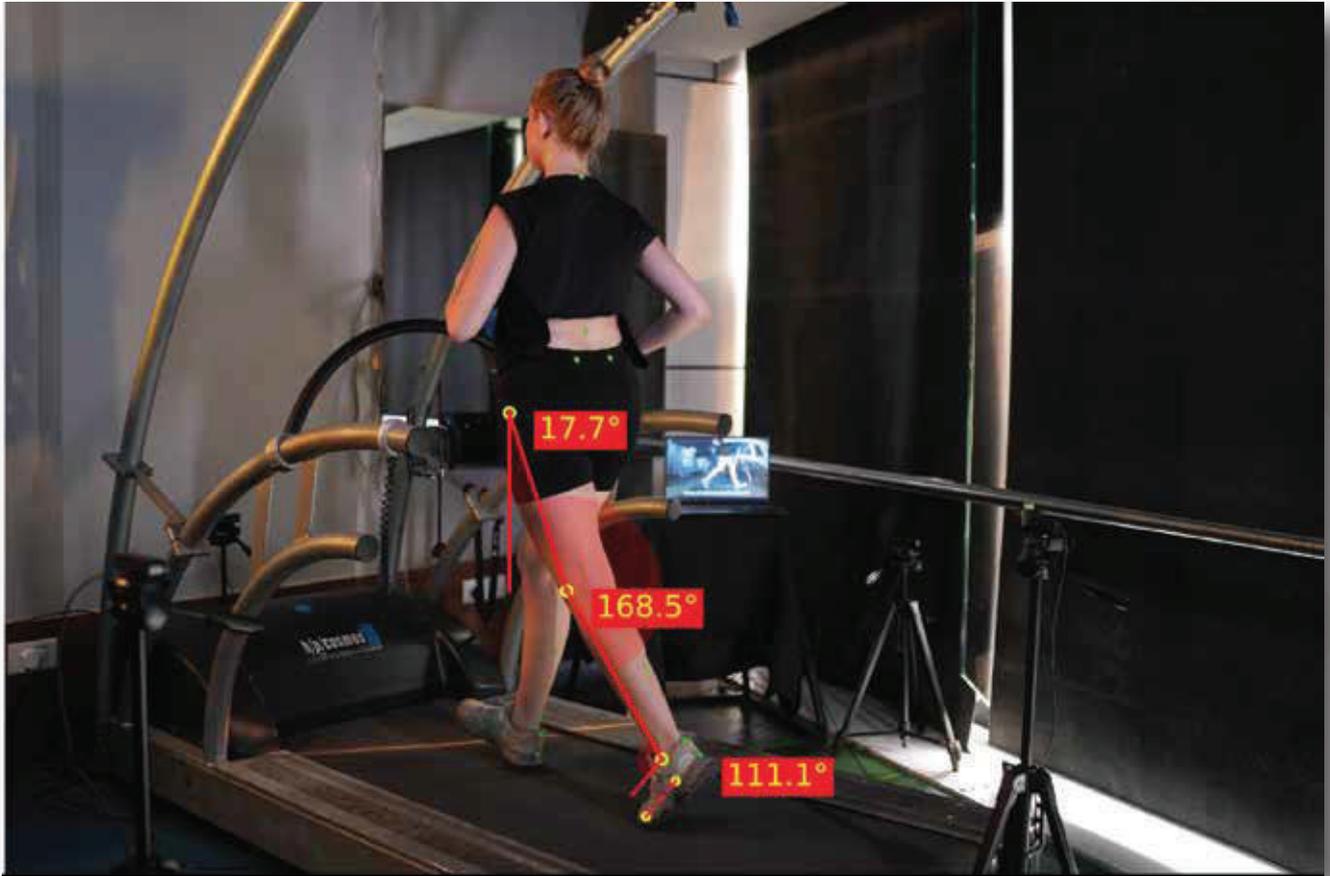
Triton Hospital, Delhi (India)

REFERENCES

Adidas

Indian Navy

BSF

Safdarjung hospital

Hawai'i Pacific University

SRM University

Amrita Hospital

Belle Vue Clinic

Col(Dr) Rana K Chengappa
Sports Medicine & Ortho Rehab

Perfect Bounce

Delhi Foot

Sporting Ethos

GaitON®

For a free demo of GaitON,
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