GaitON®

Standing Posture Analysis

Walking Gait analysis

Running Gait Analysis

Sitting Posture Analysis

Bike Fitting Analysis

Golf Swing 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
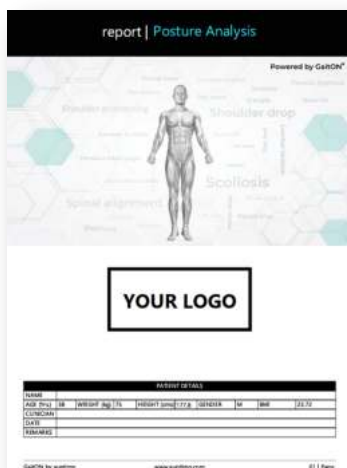

1. CAPTURE

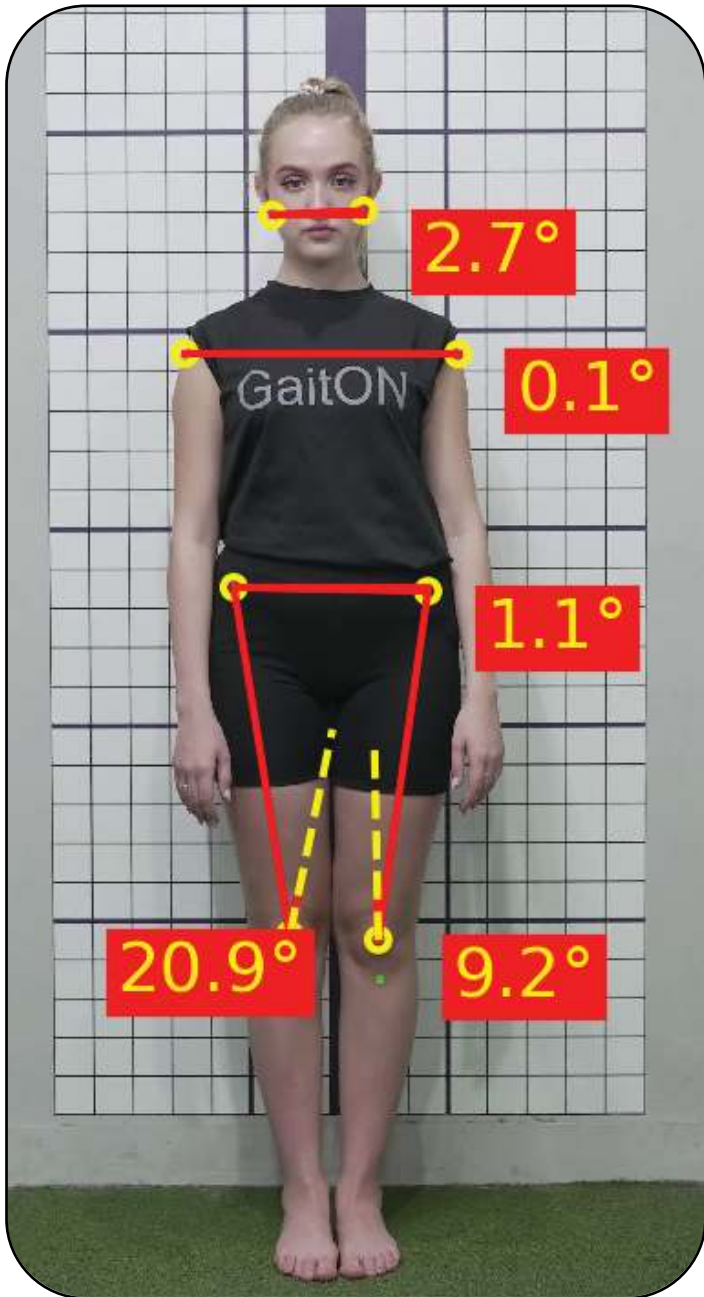Capture the patient's motion from multiple views using cameras.

2. ANALYZE

Analyse the motion using GaitON's inbuilt protocols.
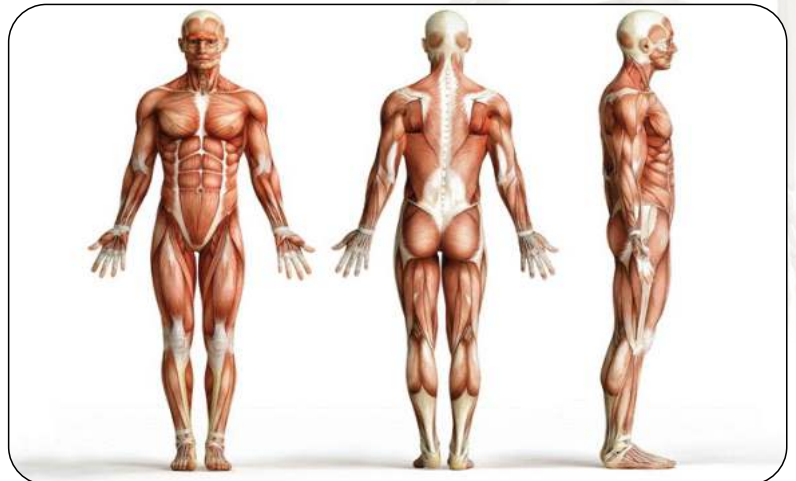

3. REPORT

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

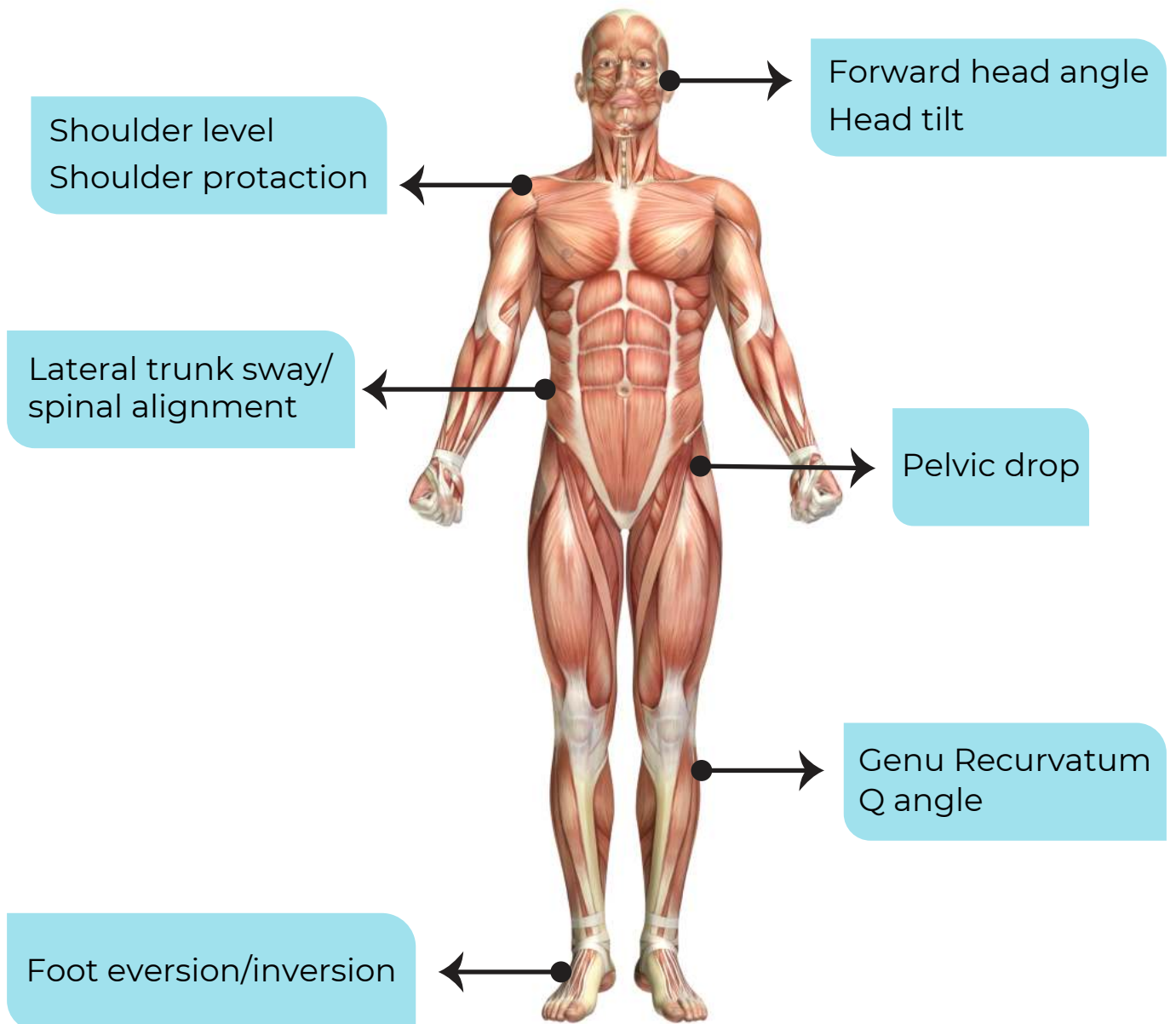### ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS
5 MINUTES

KEY DATA MEASURED

GaitON's posture analysis protocol analyses the upper & lower body posture of the patient from anterior, posterior & lateral views.

Forward head angle
Head tilt

Shoulder level
Shoulder protaction

Lateral trunk sway/
spinal alignment

Pelvic drop

Genu Recurvatum
Q angle

Foot eversion/inversion

POSTURE REPORTS : KEY FEATURES

Inbuilt reference values for an **accurate diagnosis.**
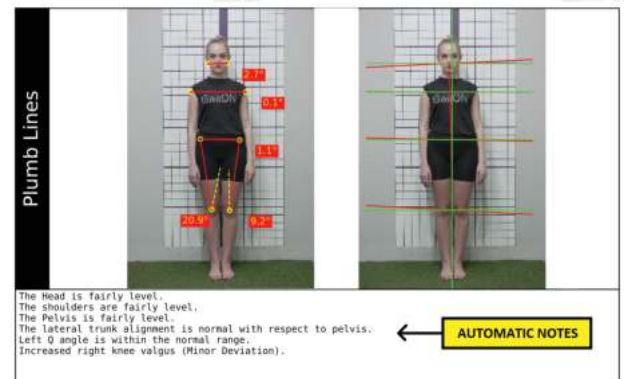
Comparison of left & right extremity posture.

KINEMATIC DATA			
Anterior View			
Parameter		Assessment Value	Reference Value
Horizontal alignment of the Head[a]		(+) 0.9°	0°
Horizontal alignment of the Acromions[a]		(+) 0.0°	0°
Horizontal alignment of the ASIS's[a]		(+) 2.3°	0°
Lateral Trunk Alignment[b]		(-) 2.3°	0°

Anterior View				
Parameter	Left	Reference Value	Right	Reference Value
Q Angle[c]	(+) 13.5°	< (+) 15° for Men < (+) 20° for Women	(+) 22.0°	< (+) 15° for Men < (+) 20° for Women

Posterior View				
Rear Foot Angle[d]	(+) 1.0°	(-) 5° to (+) 5°	(-) 0.5°	(-) 5° to (+) 5°

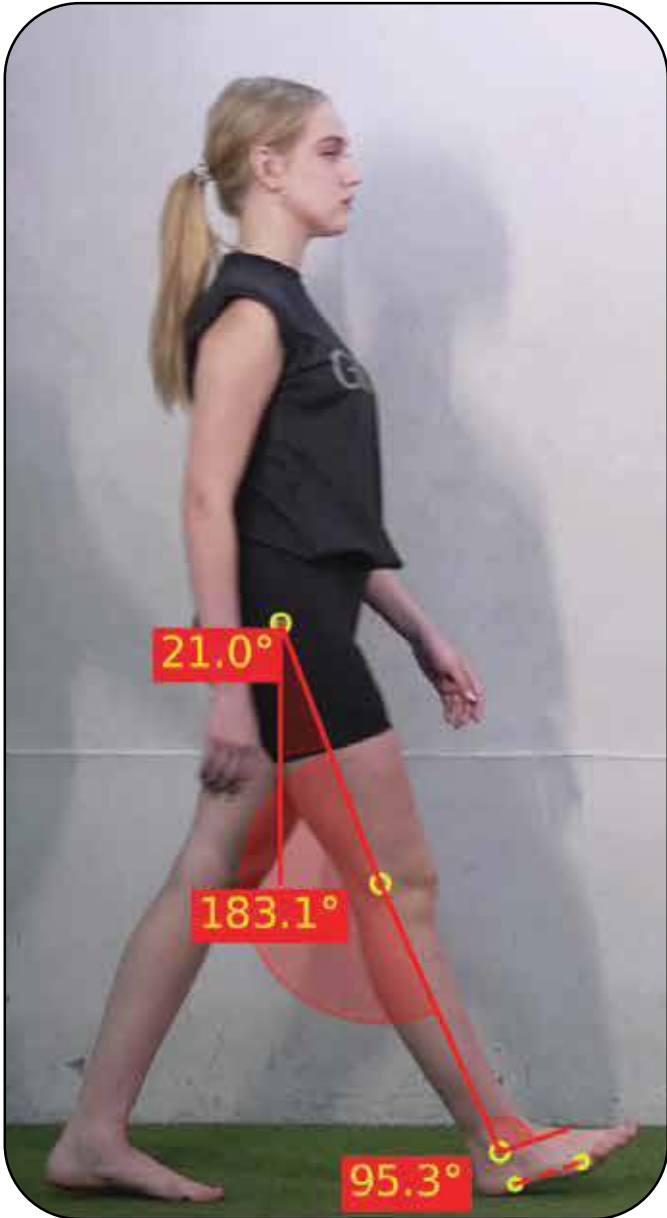| **Lateral View**				
Parameter	Left	Reference Value	Right	Reference Value
Forward Head Angle	58.9°	> 50°	60.9°	> 50°
Shoulder Angle	87.2°	> 52°	63.1°	> 52°
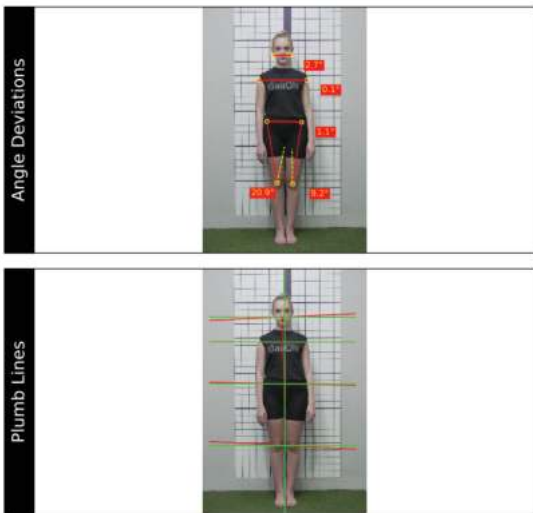
Representation of **postural deviations** through angles & plumb lines.

Automatic **documentation** of all postural deviations.

**Pre & Post Assessment** of posture after any surgical/ rehab intervention.

The Head is fairly level.
The shoulders are fairly level.
The Pelvis is fairly level.
The lateral trunk alignment is normal with respect to pelvis.
Left Q angle is within the normal range.
Increased right knee valgus (Minor Deviation).

← AUTOMATIC NOTES

WALKING GAIT ANALYSIS

21.0°
183.1°
95.3°

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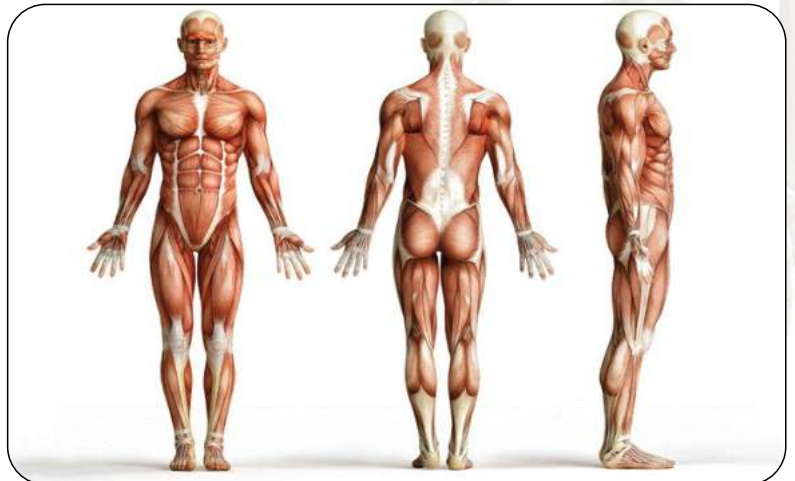
VIEWS ANALYZED

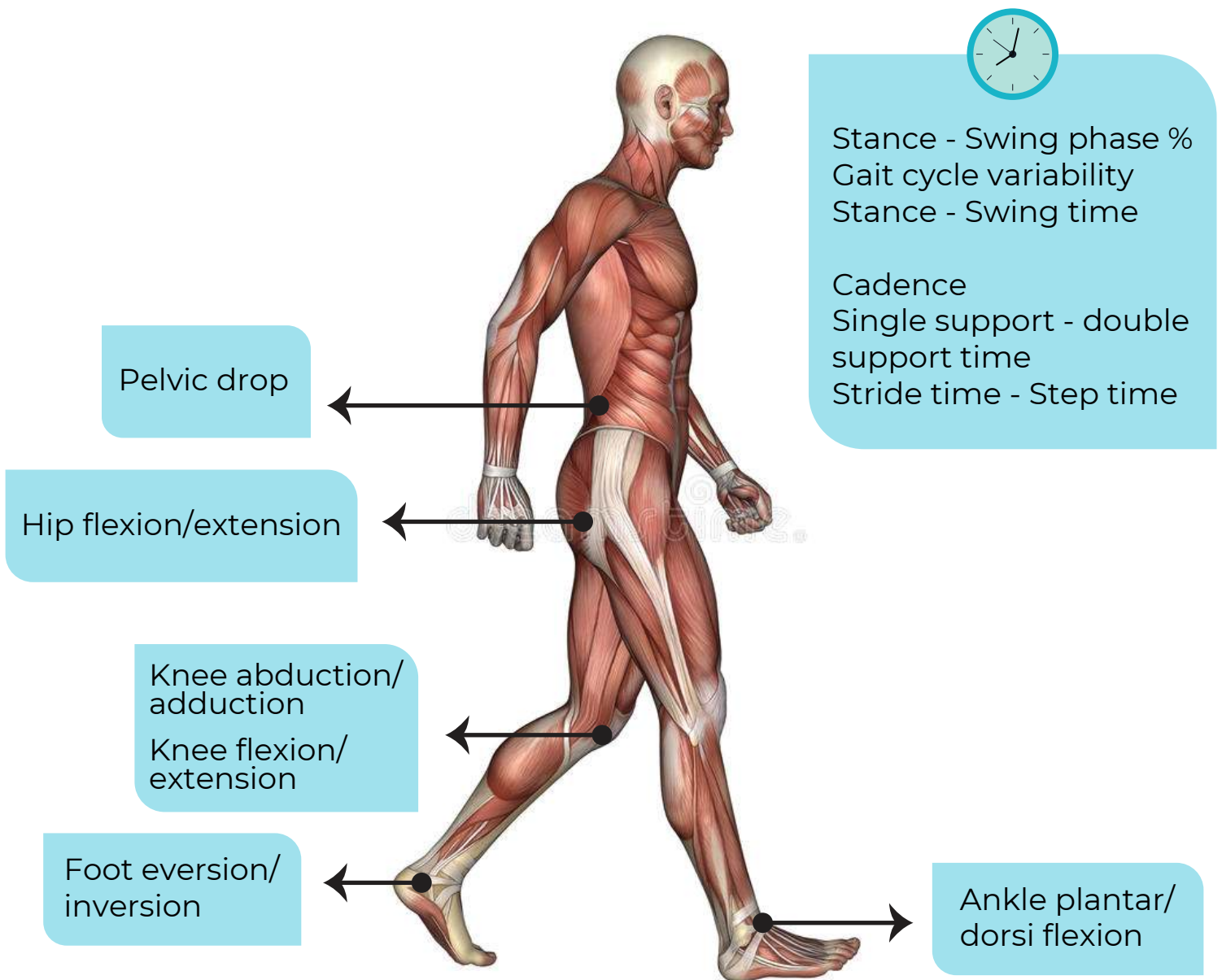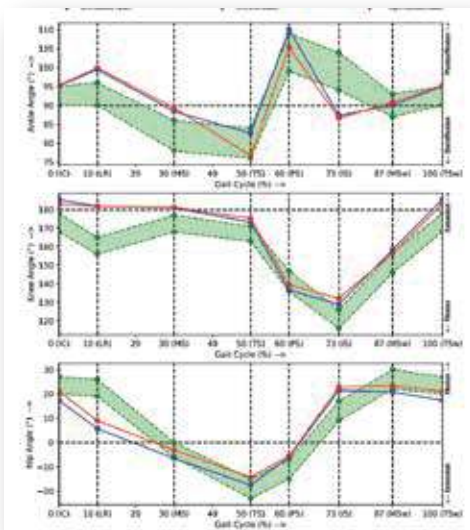**ANTERIOR . POSTERIOR . LATERAL**

SURFACE
TREADMILL I WALKWAY

GaitON's gait analysis protocol analyses the pelvis, hip, knee, foot & ankle motion during the entire gait cycle
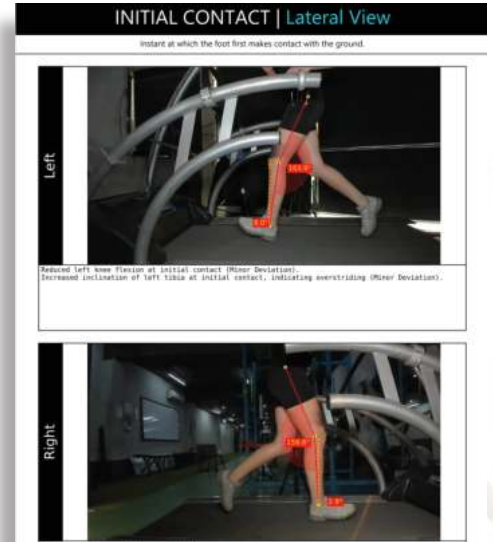
Stance - Swing phase %
Gait cycle variability
Stance - Swing time

Cadence
Single support - double support time
Stride time - Step time

drop

xtension

abduction/
uction

flexion/
ension

Foot eversion/
inversion

Ankle plantar/
dorsi flexion

GAIT REPORTS : KEY FEATURES

A detailed report with reference values, highlighting all **abnormal gait patterns.**
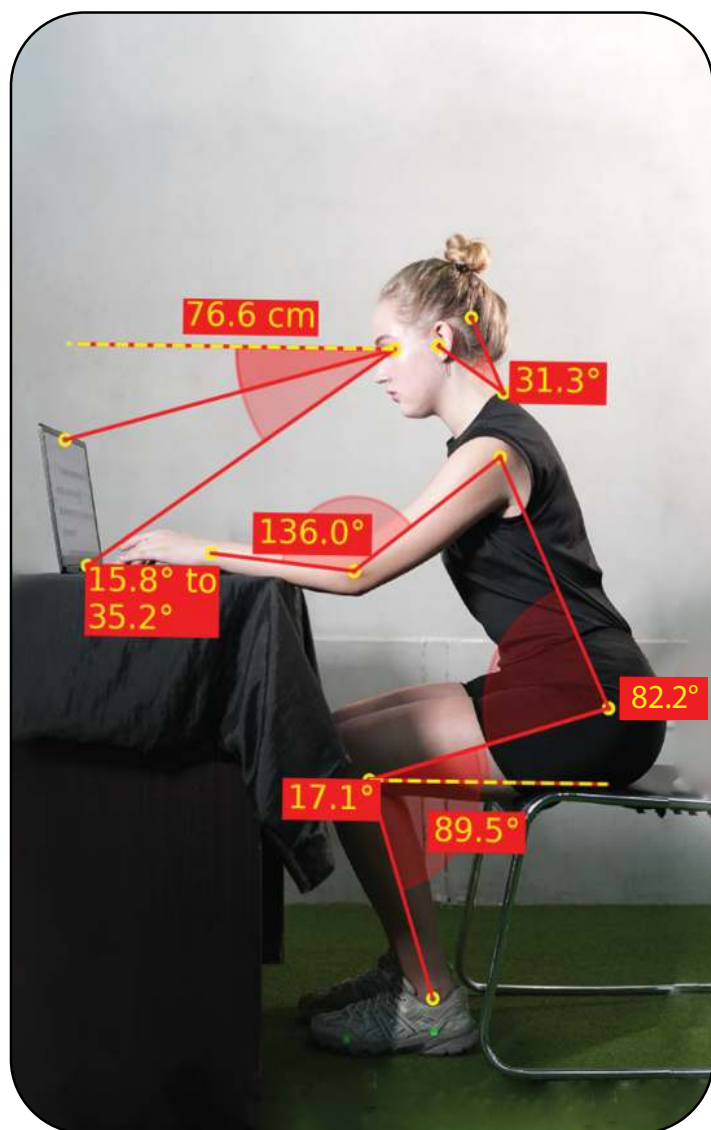
Comparison between **left & right** extremity gait.

Accurat[e]
muscle i[nvolvement]
kinemat[ics]

Monitor gait changes through **pre-post comparisons.**

166.3°

10.8°
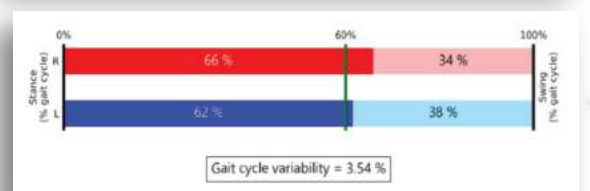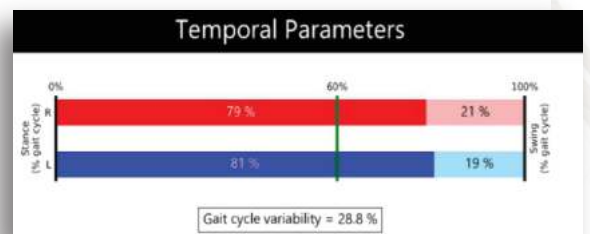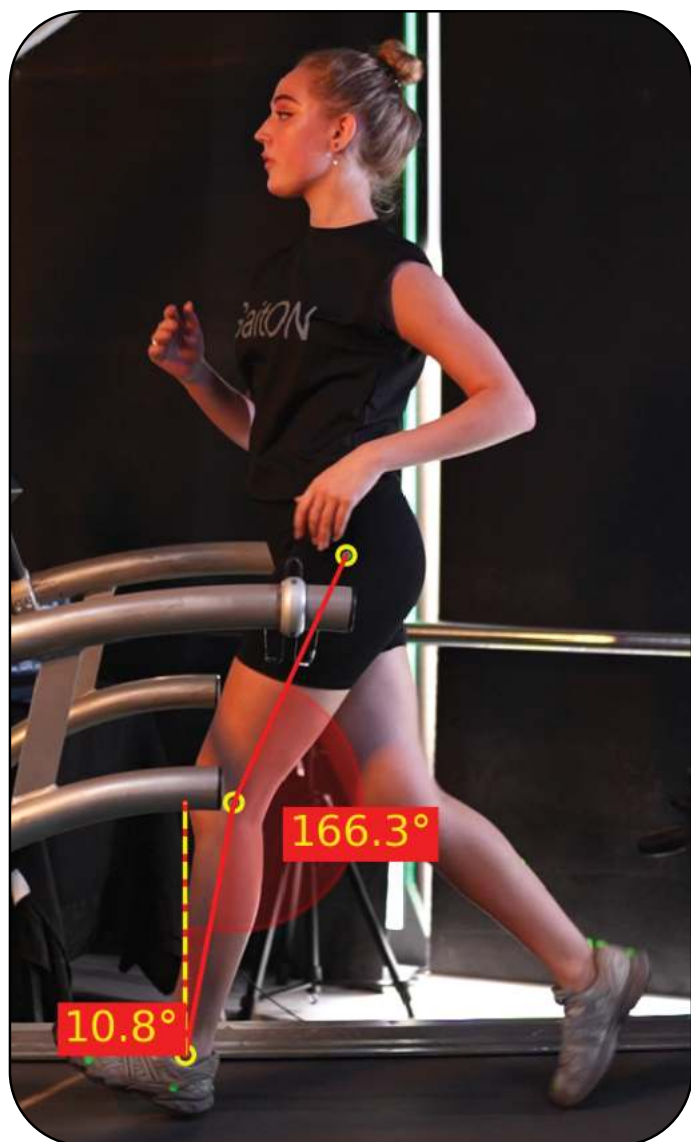
GaitON's running analysis protocol is based on the directives of UW Health Sports Medicine Clinic, USA & detects any abnormal running gait patterns.

VIEWS ANALYZED
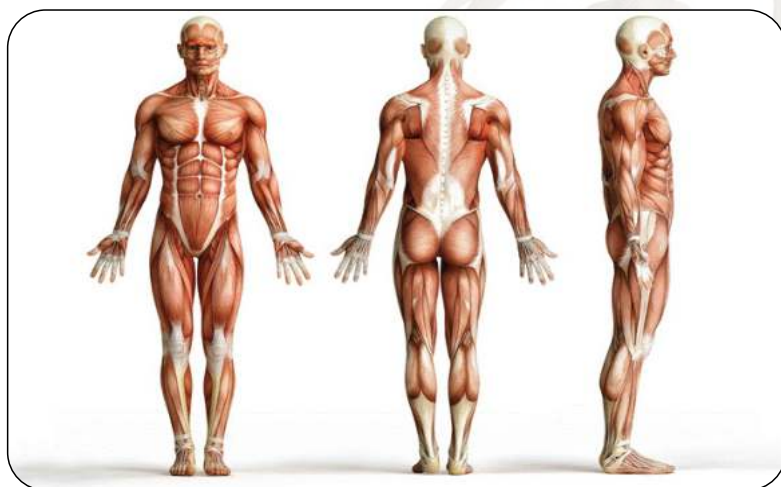
ANTERIOR . POSTERIOR . LATERAL

SURFACE

TREADMILL I RUNNING TRACK

GaitON's running analysis protocol analyses the pelvis, hip, knee, foot & ankle motion during the entire gait cycle

Crossover Gait

Vertical oscillation of COM

Ground contact time

Overstriding

Pelvic drop
Trunk sway

Hip flexion/extension

Knee abduction/adduction
Knee flexion/extension

Ankle plantar/dorsi flexion

Foot strike pattern
Foot eversion/inversion
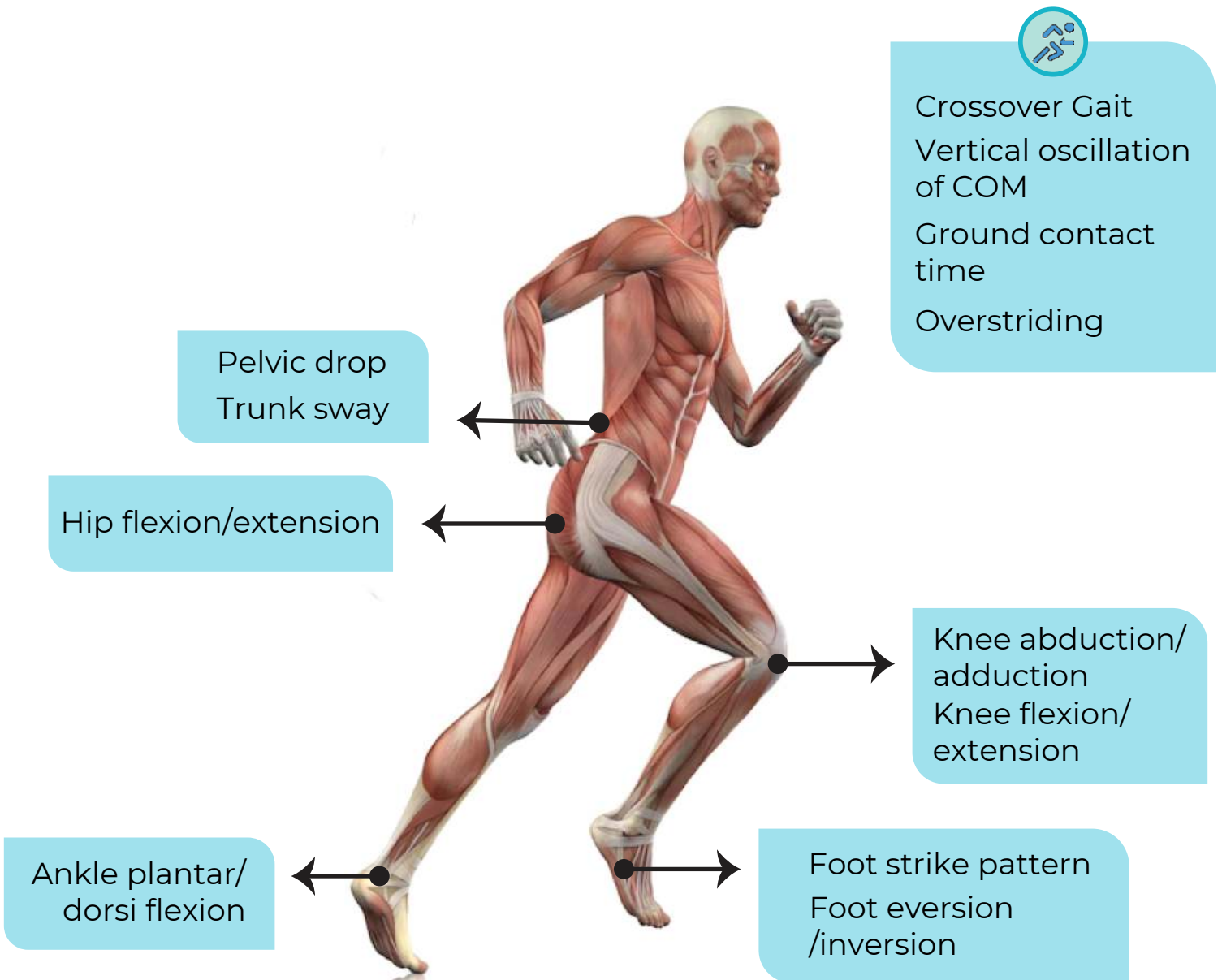
RUNNING REPORTS : KEY FEATURES

A detailed report with reference values, highlighting all **abnormal gait patterns**.

Comparison between **left & right** extremity gait.
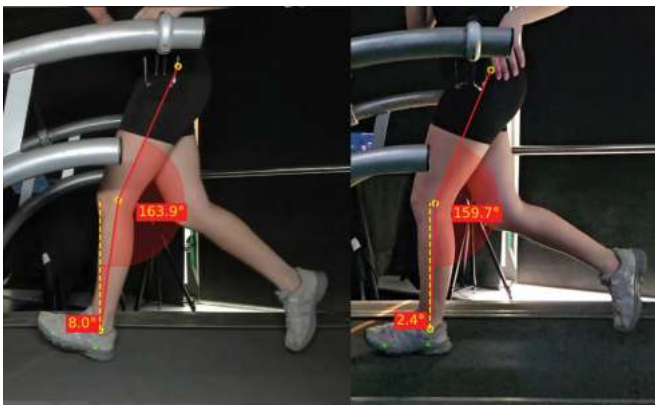
Monitor gait changes through **pre-post comparisons.**
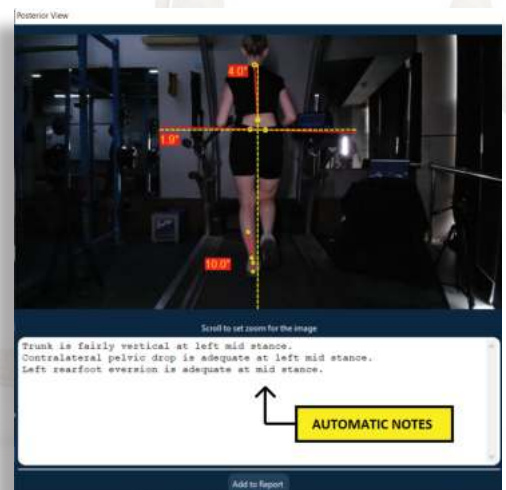
Automatic documentation of all observations.

GaitON's sitting posture analysis markerless protocol identifies key postural deviations in a few clicks & exports all data to a report.

VIEWS ANALYZED
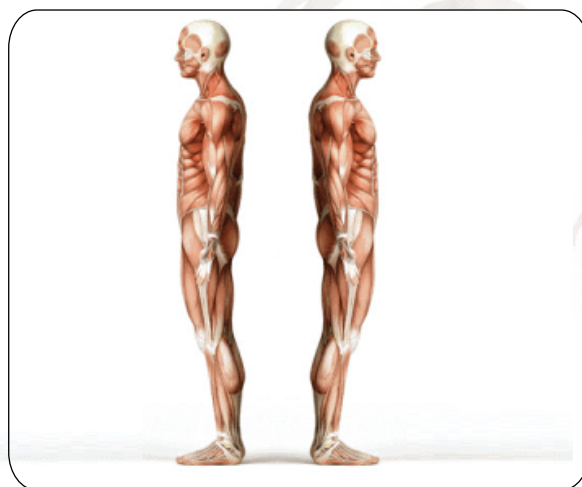
ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS

5 MINUTES

KEY DATA MEASURED

GaitON's sitting module analyses the complete sitting posture from left and right lateral views.

Viewing Distance

Viewing Angle

Forward Head Angle

Elbow Angle

Trunk-Thigh Angle

Hip Knee Alignment

Knee Angle
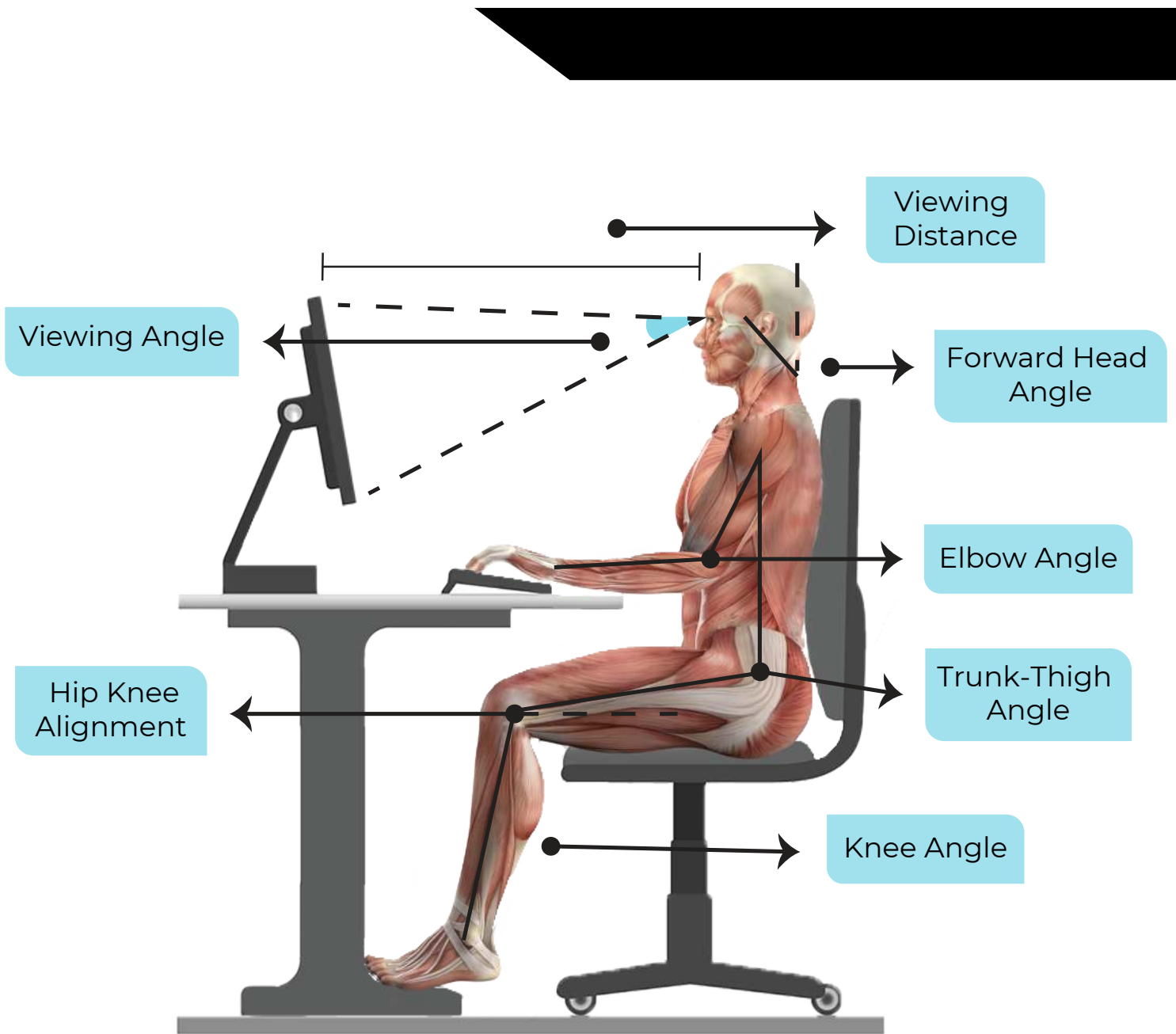
SITTING POSTURE REPORTS : KEY FEATURES

A detailed report highlighting **abnormal postural deviation** in table and angular form.
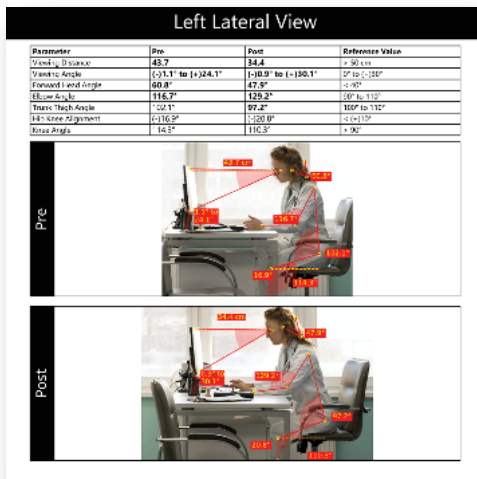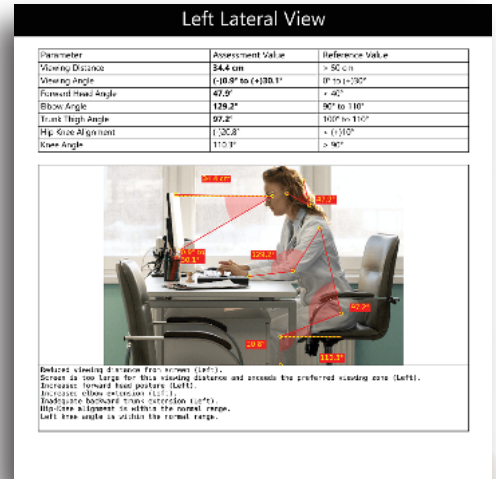
Pre-Post comparison of posture.

Automatic documentation of all observations in the report.

BIKE FITTING ANALYSIS

72.8°
162.7°
72.1°
1.7 cm
120.9°
90.2°
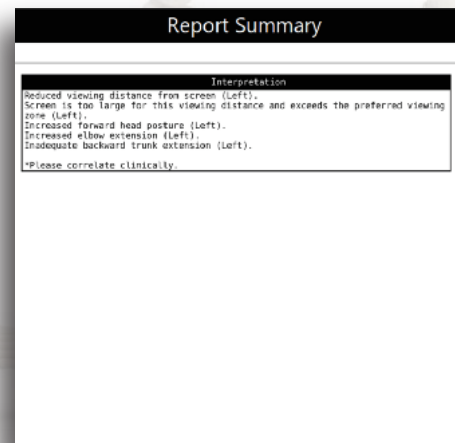
GaitON® bike fitting software is used by 500+ clinicians globally for a detailed bike fit assessment. It helps in adjusting the bike as per the rider's body measurements, flexibility, riding goals, and any existing injuries.

VIEWS ANALYZED

LATERAL AND ANTERIOR VIEW

POSITIONS

ROAD, MTB, TT, TRIATHLETE

A detailed report with **reference values and with different fit positions** (Road, MTB, TT, Triathlete).

Comparison between **left and right** extremity riding positions.

BIKE FITTING REPORTS : KEY FEATURES

Easy **comparison between different fit** positions.

Automatic documentation of notes.

SPORTS SPECIFIC PROTOCOLS

TENNIS SERVE ANALYSIS

Assessment of serve biomechnics

Identification of musculoskeletal problems behind biomechanical faults

GOLF SWING ANALYSIS

Assessment of serve biomechnics

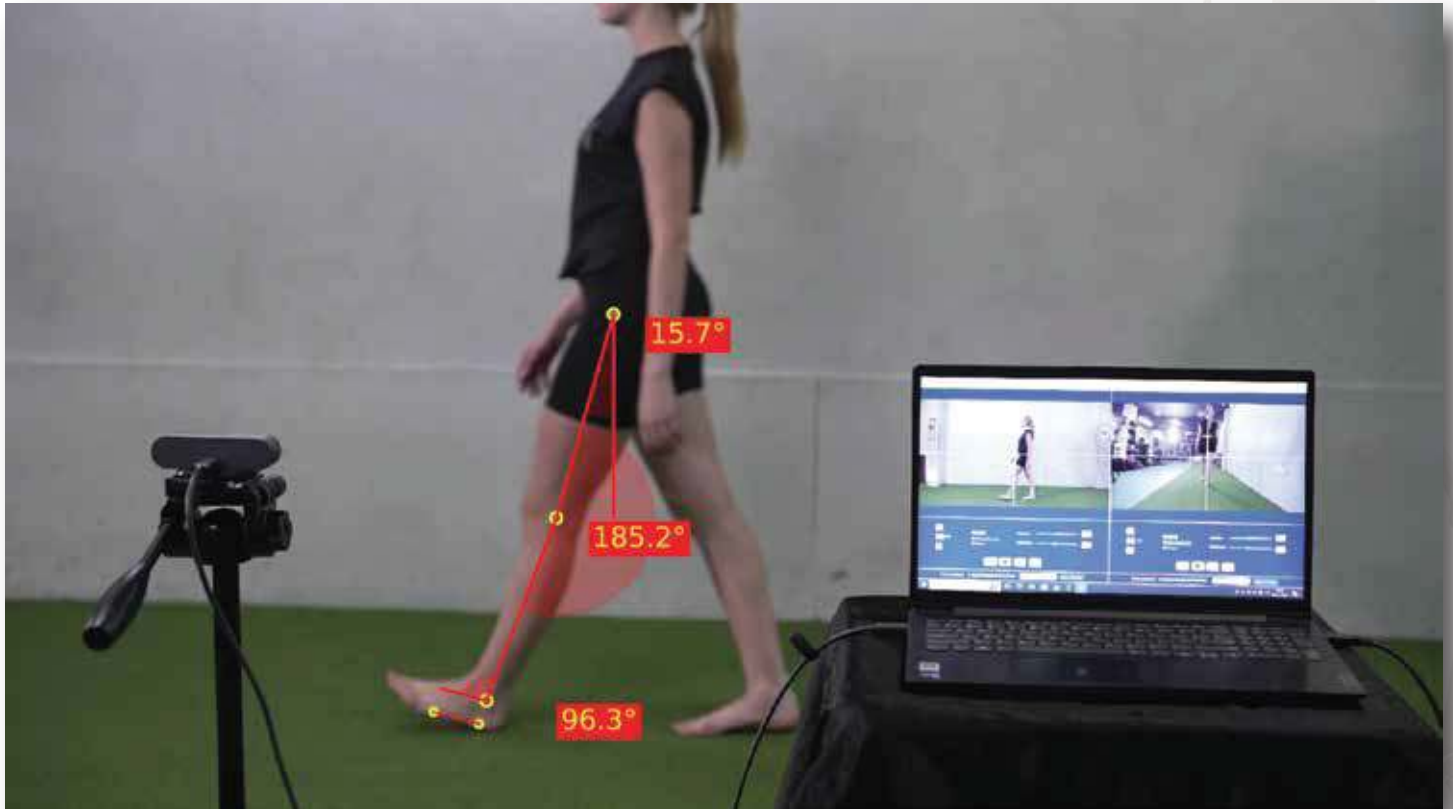Identification of musculoskeletal problems behind biomechanical faults

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

SETUP

AMRITA HOSPITAL
FARIDABAD
Embrace Good Health

Amrita hospital, Kochi/
Faridabad (India)

📷 2 Digital Cameras

🏃 Walkway

🖥 GaitON® Software

GAIT ANALYSIS

Triton Hospital, Delhi (India)

SETUP

4 Digital Cameras

Treadmill

GaitON® Software

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,
reach out to us at :

E: info@auptimo.com
M: +91-8920-8398-62