GaitON by auptimo



Posture Analysis



Walking Gait analysis



Running Gait Analysis



Sitting Posture Analysis Tennis Serve Analysis Golf Swing Analysis





GaitON is trusted by 200+ clinicians globally for gait & posture analysis Is your center GaitON ready?

WORKFLOW

A 3 step process to complete a biomechanical assessment

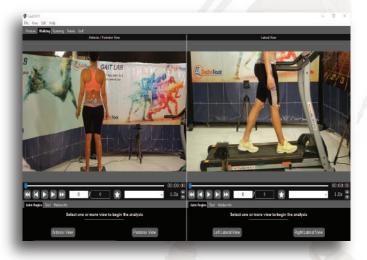


1. CAPTURE

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

2. ANALYZE

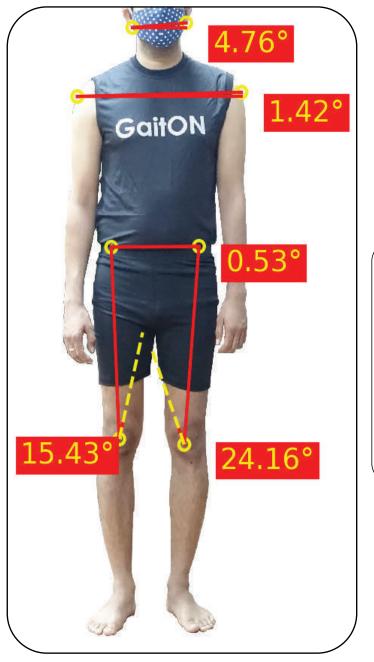
Analyse the motion using GaitON's inbuilt protocols.



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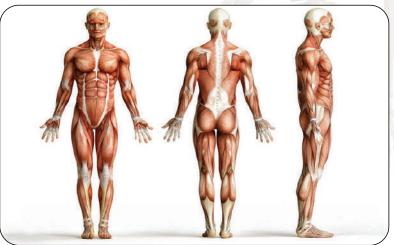
3. REPORT

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



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

VIEWS ANALYZED

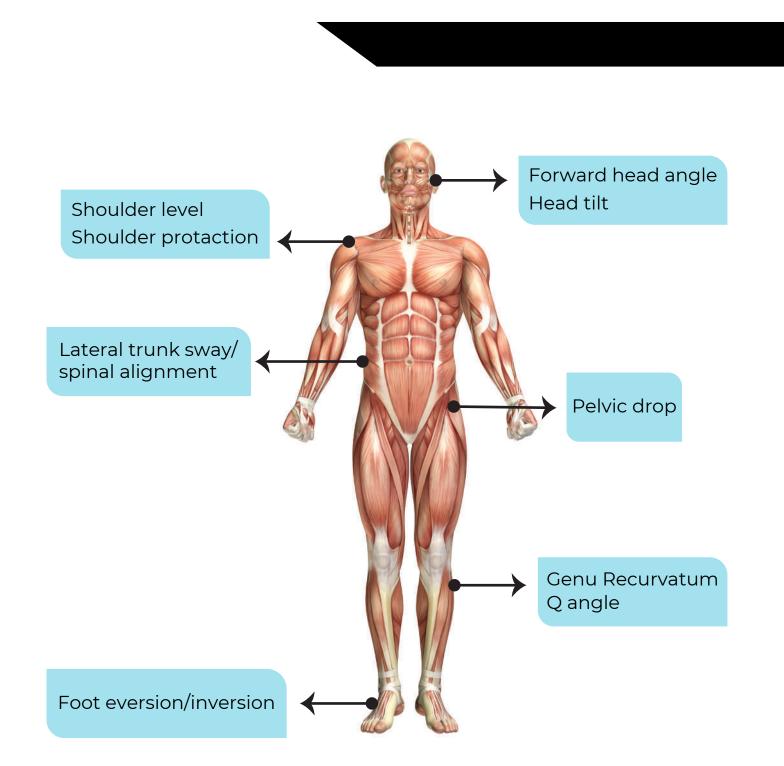


ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS 5 MINUTES

POSTURE ANALYSIS

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

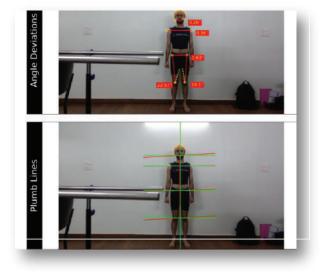


POSTURE ANALYSIS

POSTURE REPORTS : KEY FEATURES

Inbuilt reference values for an **accurate diagnosis**.

Comparison of left & right extremity posture.



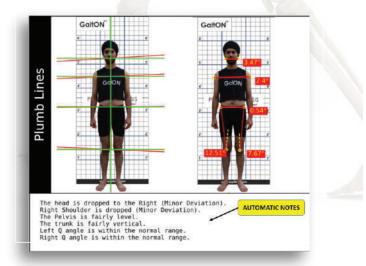
KINEMATIC DATA

Anterior View							
Parameter			Assessme	nt 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	Refere	nce 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.

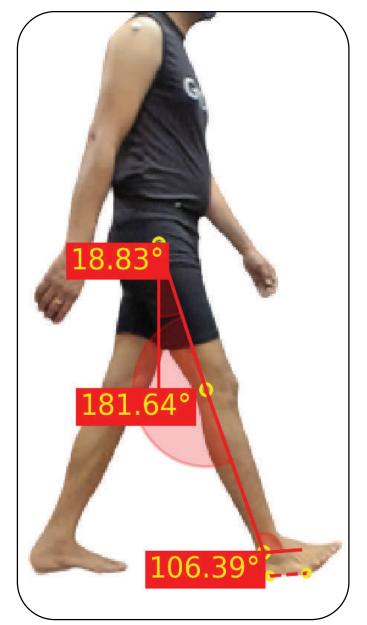
Automatic **documentation** of all postural deviations.

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



POSTURE ANALYSIS

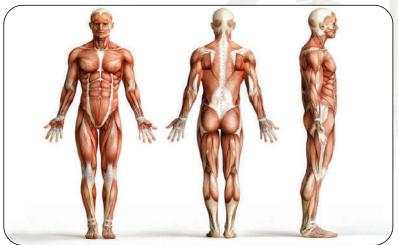
GAIT ANALYSIS



GaitON's gait analysis protocol

identifies key walking deviations from multiple views & exports all data to a report.

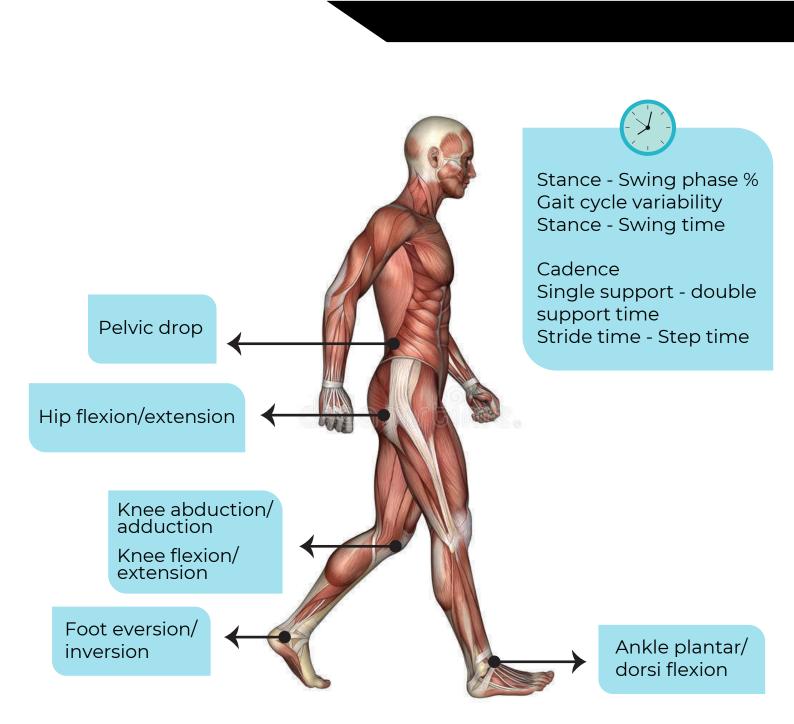
VIEWS ANALYZED



ANTERIOR . POSTERIOR . LATERAL

SURFACE TREADMILL I WALKWAY

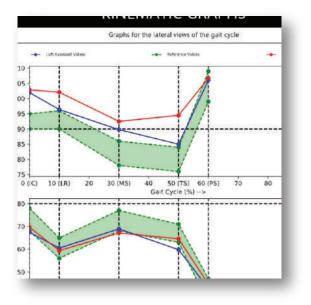
GaitON's gait analysis protocol analyses the pelvis, hip, knee, foot & ankle motion during the entire gait cycle



GAIT REPORTS : KEY FEATURES

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

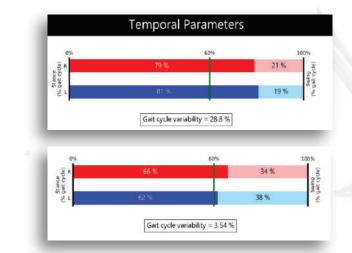
Comparison between **left & right** extremity gait.



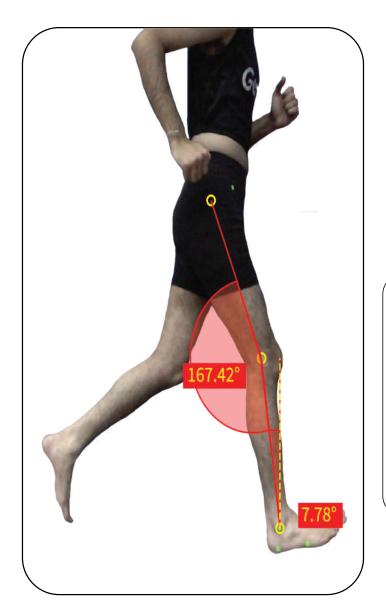


Accurate identification of **muscle imbalances** using kinematic graphs.

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

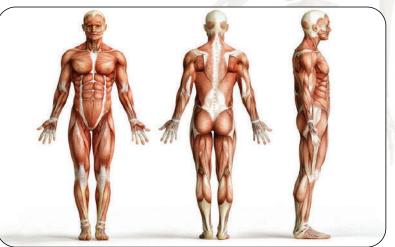


RUNNING ANALYSIS



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

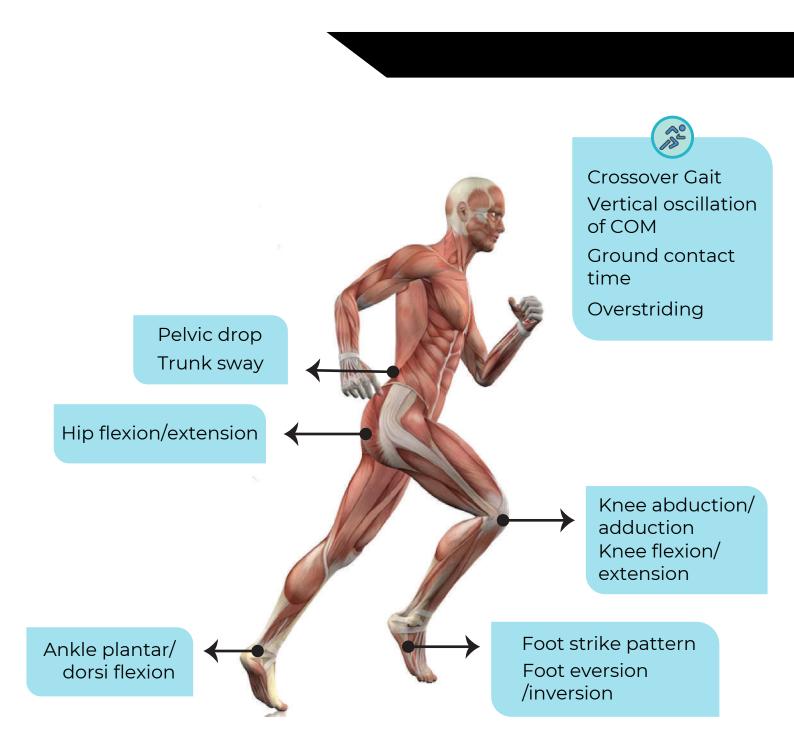


ANTERIOR . POSTERIOR . LATERAL

SURFACE TREADMILL I RUNNING TRACK

RUNNING ANALYSIS

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



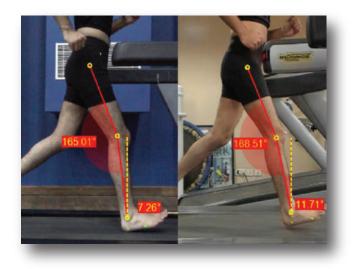
RUNNING ANALYSIS

RUNNING REPORTS : KEY FEATURES

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

Comparison between **left & right** extremity gait.

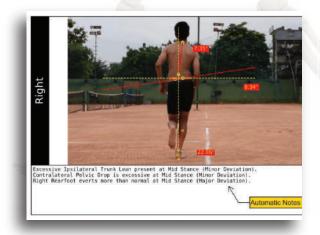




Monitor gait changes through **pre-post comparisons**.

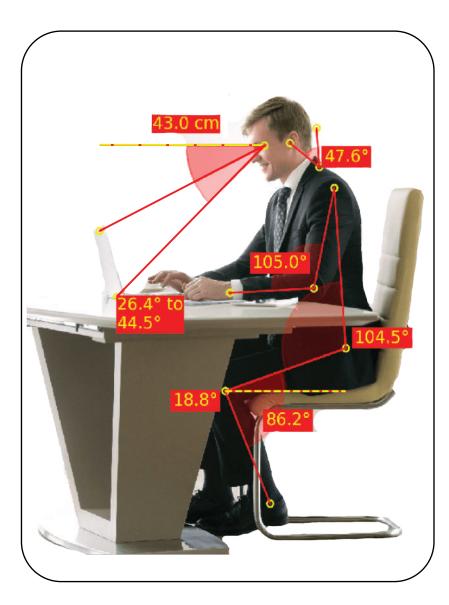
Automatic documentation of

all observations.



RUNNING ANALYSIS

SITTING POSTURE ANALYSIS



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

VIEWS ANALYZED

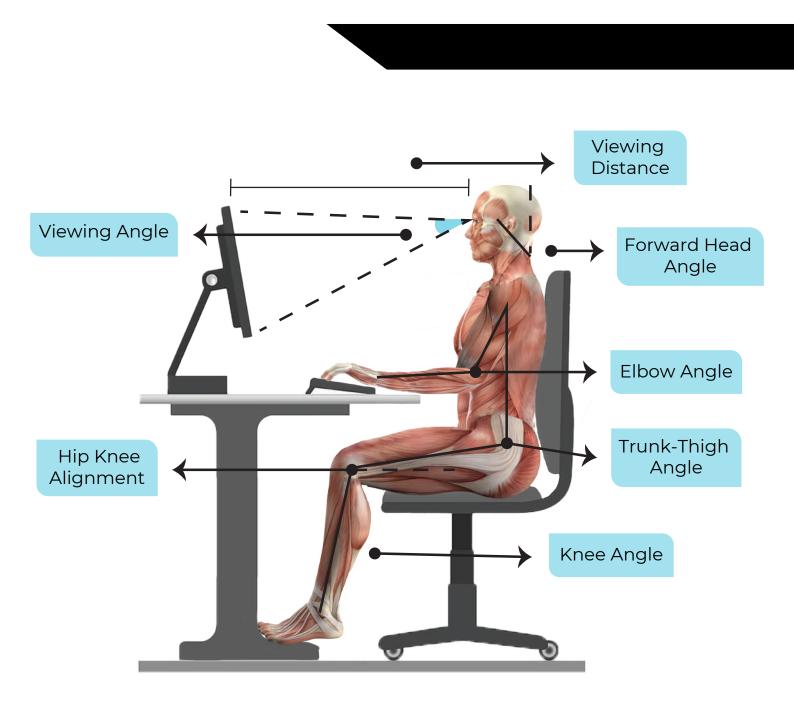


ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS 5 MINUTES

SITTING POSTURE ANALYSIS

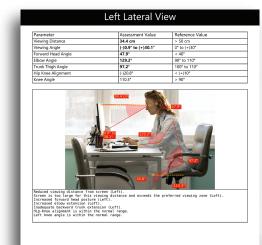
GaitON's sitting module analyses the complete sitting posture from left and right lateral views.

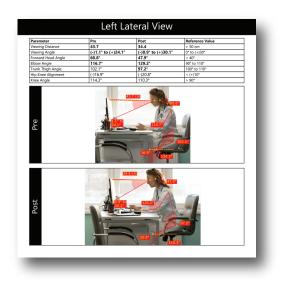


SITTING POSTURE ANALYSIS

SITTING POSTURE REPORTS : KEY FEATURES

A detailed report highlighting **abnormal postural deviation** in table and angular form.





Automatic documentation

of all observations in the report.

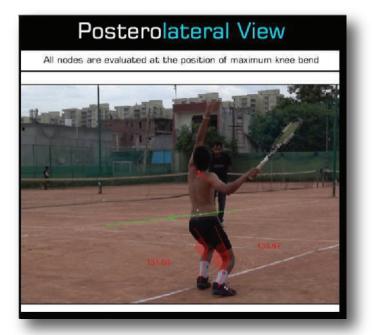
Pre-Post comparison of posture.



SITTING POSTURE ANALYSIS

SPORTS SPECIFIC PROTOCOLS

TENNIS SERVE ANALYSIS



Assessment of serve biomechnics

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uring the tennis serv	ve alon	g wit			fals sabable -		mies hi e	196U	
			in end	list o	r cne probable c	auses.			
POSTERO LA						RIOR VI			
Kose bend	Yes	- VIE	Na		Foot position		No	1	
Posterior Hip tilt	Yes	10	No	1	r oue posicion	100	140		
Counter hip rotation	Yes	10 1	No	1	e		-		
Trunk hip Separation	Yes	4	No	-			1		
Shoulder Alignment	Yes	1	No		S		-		
		(d) - 2	S		6	c ()	- 26 - 0		
	OBS	ERV	ATION	S					
Fault name	Ce	Common injuries			Common causes				
1. Foot position	Incr	eased	i load	on	Hip and/or t	runk fle	exibility	and	
	trun	trunk or shoulder			strength				
2. Posterior hip	Incr	Paser	load	00	Hip and trunk	flexion f	lexibility	aor	
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Identification of musculoskeletal problems behind biomechanical faults

GOLF SWING ANALYSIS

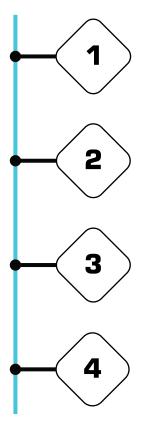


Assessment of serve biomechnics

OVERVIEW o following table gives an overview of the various biomechanical fo ring the golf swing along with the list of the probable causes. DOWN THE LINE / LATERAL VIEW FACE ON / ANTERIOR VIEW Yes Angle S Posture Yes No C Posture Sway Yes No oss of Posture Yes No Scoop No arly Exten No Over the BSERVATIONS 1. Early Extension Low Back Pair 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 pair Decreased lead hip intern rotation

Identification of musculoskeletal problems behind biomechanical faults

GaitON is used by 200+ clinicians globally for:



Diagnosis of posture & gait disorders

Pre-post surgical/rehabilitation comparison

Monitoring effects of Orthotics/External supporting gear

Screening camps at schools/corporates.











GAIT ANALYSIS





Triton Hospital, Delhi (India)

SETUP



4 Digital Cameras



Treadmill



GaitON[®] Software

REFERENCES





Hawai'i Pacific University



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





SRM University



Perfect Bounce



BSF



Amrita Hospital



Delhi Foot



Jamia Milia Islamia



Belle Vue Clinic



Sporting Ethos

GaitON[®] by auptimo For a free demo of GaitON, reach out to us at :

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