

SynerSense Gait Lab

Gait Analysis Report



Patient Detail

Patient Name	: PostOP_Test Test	Diagnosis / Pathology	: Healthy_demo
Patient ID	: PostOP_Test_Walk03	Study Type	: Orthopedic_disorders
Gender / Age (year)	: Male / 39	Study Protocol	: Walking
Height (cm) / Weight (kg)	: 170 / 90	Study Date	: 11-03-2025
DOB	: 28-08-1985	Study Time (HH:MM)	: 17 : 37
Department	: Orthopaedics	Consulting Doctor	: Dr Ram
Contact Number:	1111111111	Referred By	:

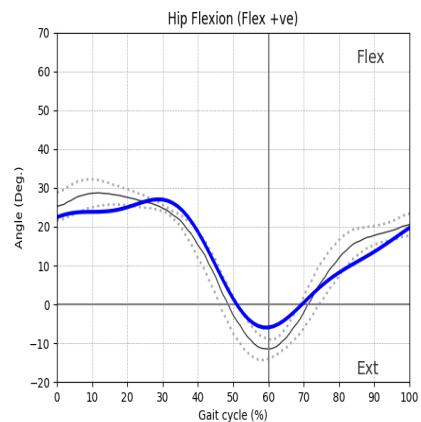
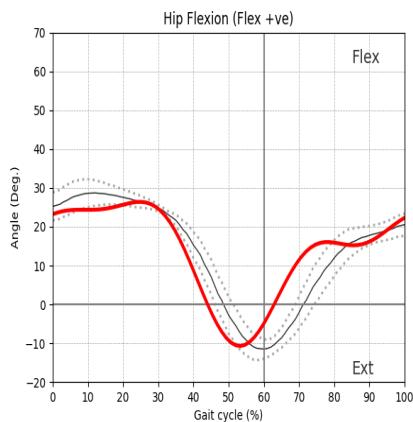
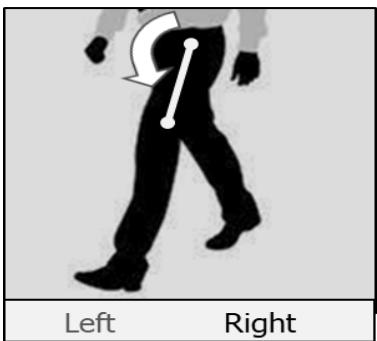
Appointment Remarks

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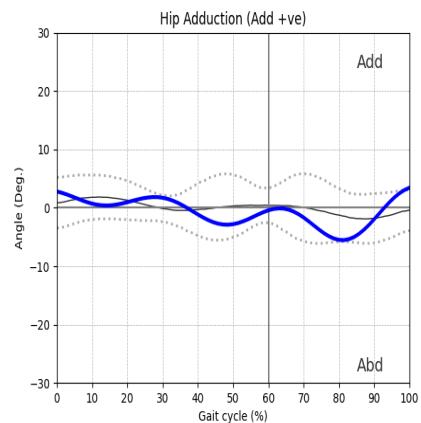
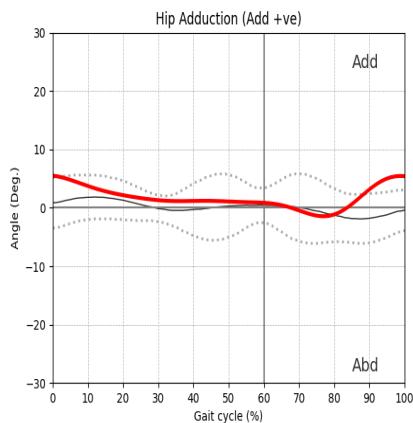
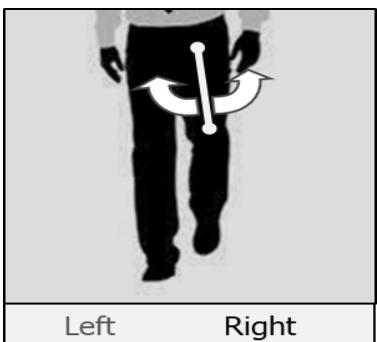
— Left — Right

Kinematics - Hip Joint

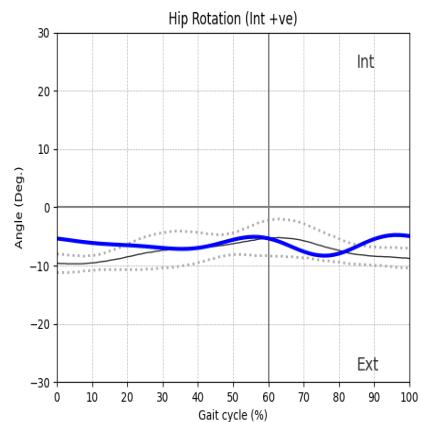
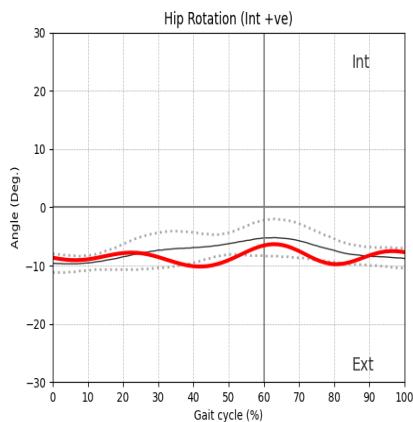
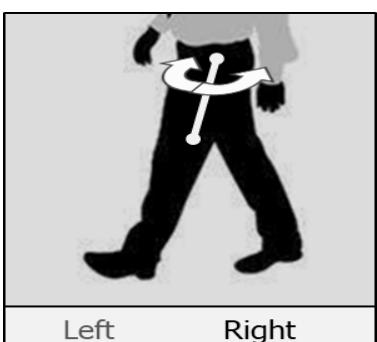
Hip Sagittal



Hip Frontal



Hip Transverse

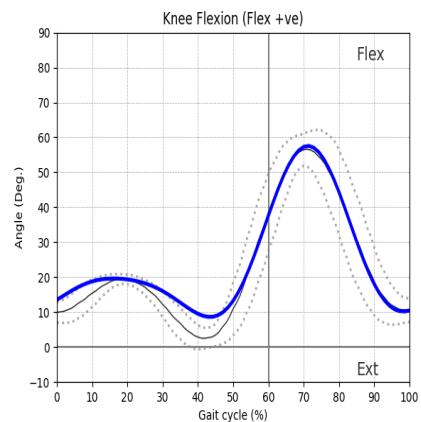
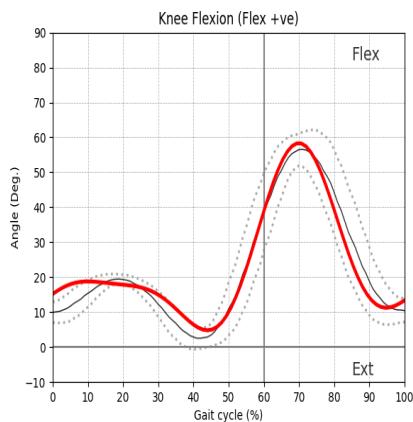
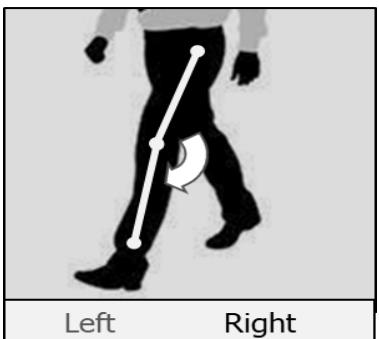


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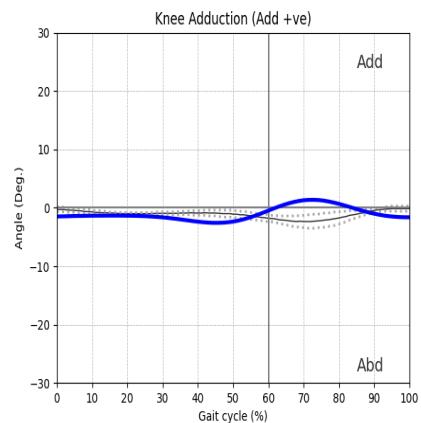
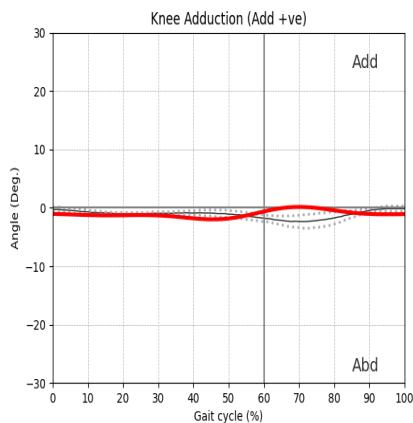
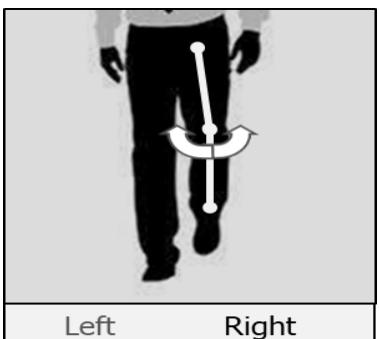
— Left — Right

Kinematics - Knee Joint

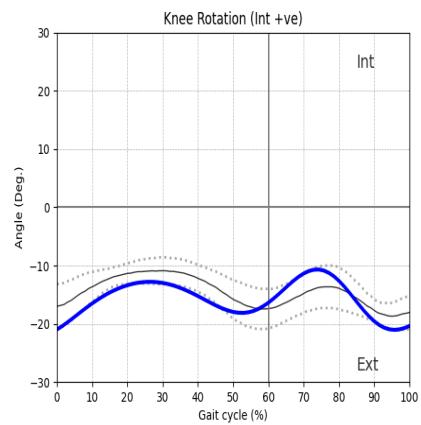
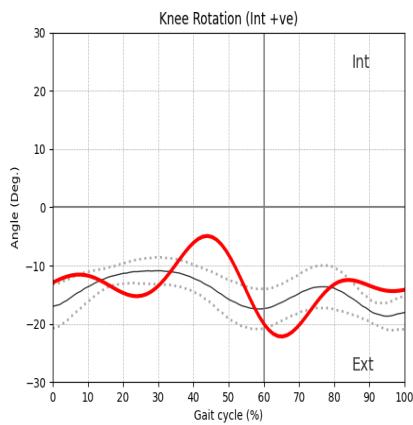
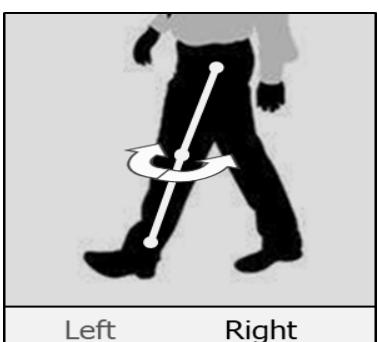
Knee Sagittal



Knee Frontal



Knee Transverse

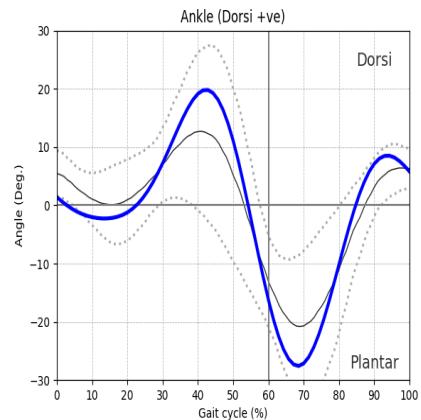
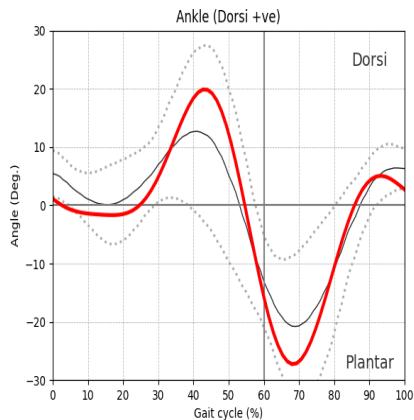
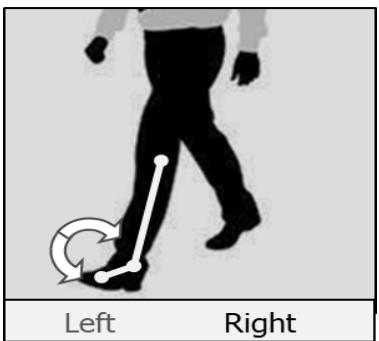


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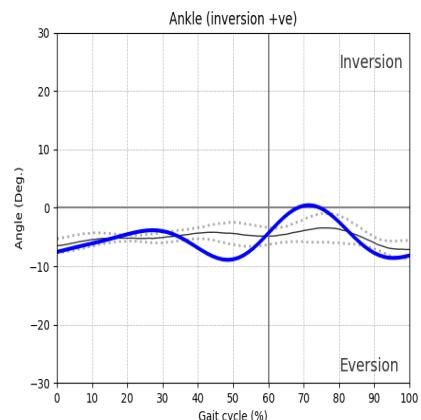
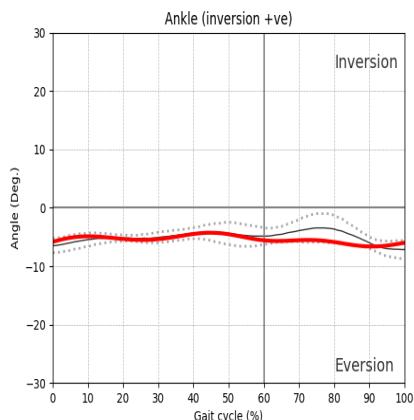
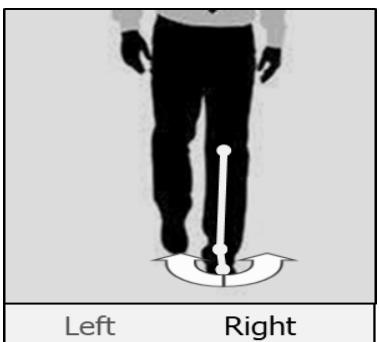
— Left — Right

Kinematics - Ankle Joint

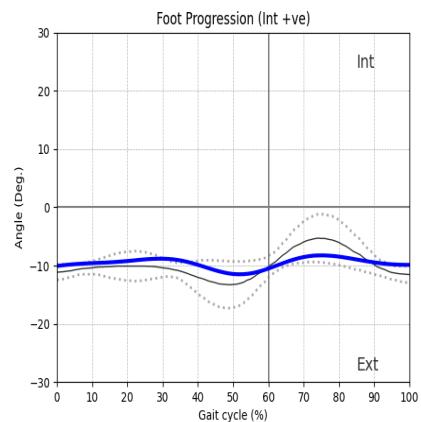
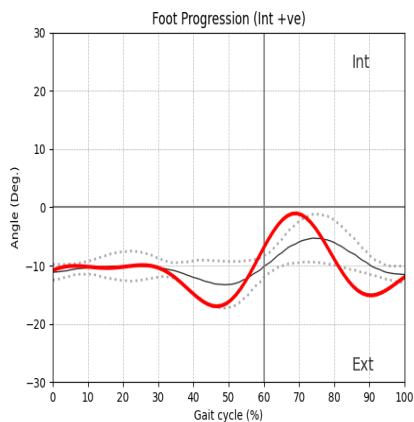
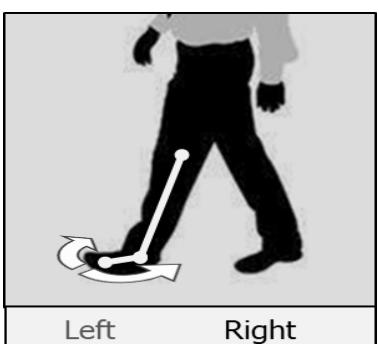
Ankle Sagittal



Ankle Frontal



Ankle Transverse

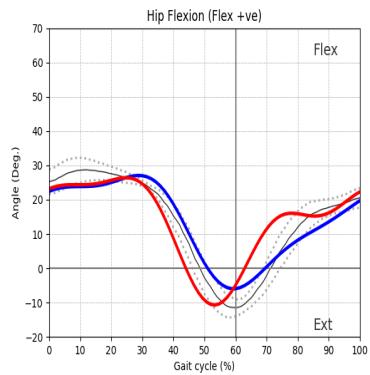


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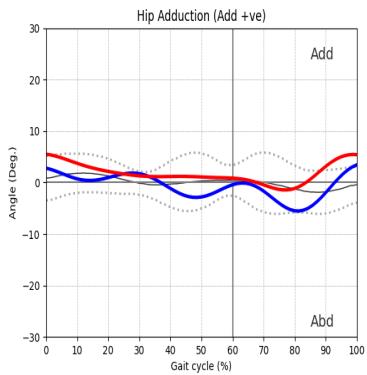
— Left — Right

Kinematics - Joint Angle (Left Vs Right)

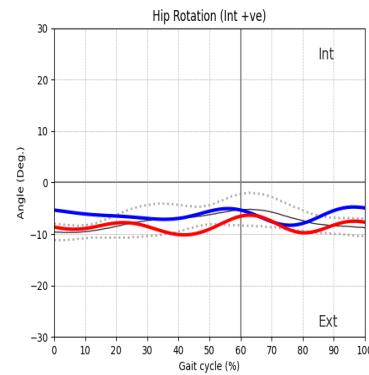
Sagittal



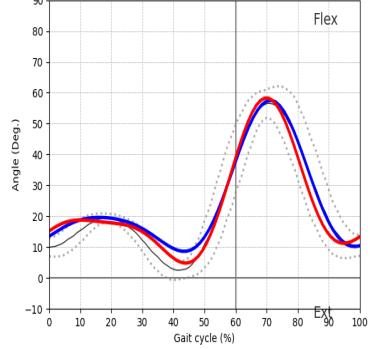
Frontal



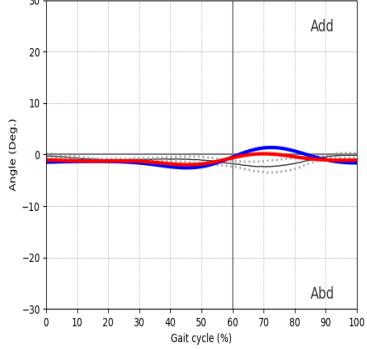
Transverse



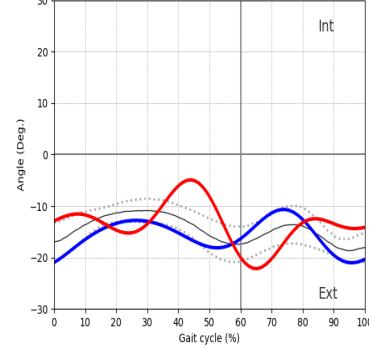
Knee Flexion (Flex +ve)



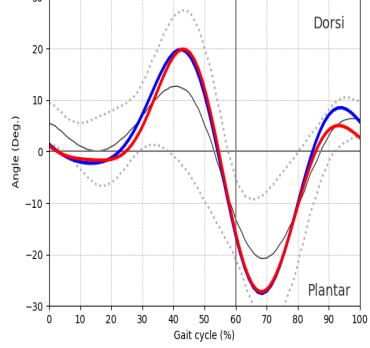
Knee Adduction (Add +ve)



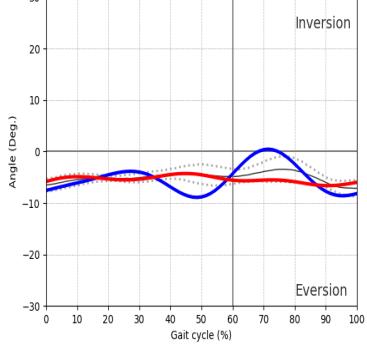
Knee Rotation (Int +ve)



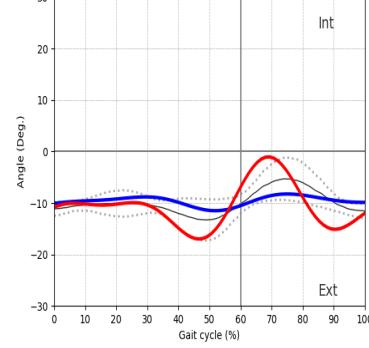
Ankle (Dorsi +ve)



Ankle (inversion +ve)



Foot Progression (Int +ve)



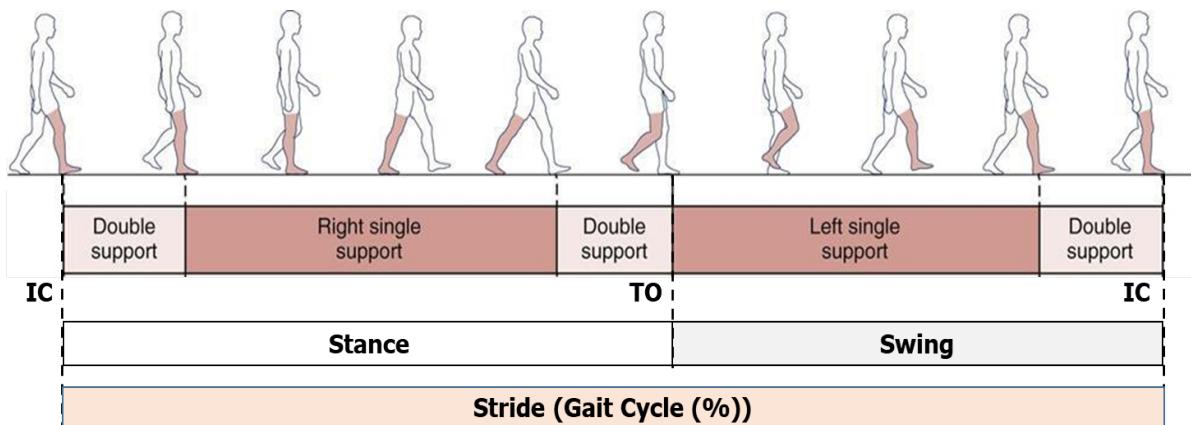
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Kinematic Parameters

Description	Phase	Left side Angle (Deg.)	Right side Angle (Deg.)
Hip Angle (Initial Contact)	Stance	22.05	21.17
Knee Angle (Initial Contact)	Stance	13.27	12.11
Ankle Angle (Initial Contact)	Stance	2.52	3.06
Hip Angle (Min)	Stance	0.01	0.6
Hip Angle (Max)	Swing	16.03	20.76
Knee Angle (Min)	Stance	4.81	8.66
Knee Angle (Max)	Swing	58.27	57.55
Ankle Angle (Min)	Stance	0.02	0.02
Ankle Angle (Max)	Swing	27.27	27.58

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Gait Parameters



Temporal and Spatial Parameters

Description	Side		Value	Unit	Normal Range
Stride Length	Left	↑	1.29	m	1.03 - 1.23
	Right	↑	1.39		
Stride Time	Left	↑	1.2	sec	0.89 - 0.97
	Right	↑	1.3		
Cadence		↓	98.09	steps/min	121.20 - 138.00
Speed			1.08	m/sec	0.92 - 1.32
Step Length	Left	↑	0.77	m	0.52 - 0.64
	Right	↑	0.83		
Stance Phase (% Gait Cycle)	Left		57.72	%	
	Right		61.79		
Swing Phase (% Gait Cycle)	Left		42.28	%	
	Right		38.21		
Single Support Phase	Left		25.08	%	
	Right		21.78		
Double Support Phase	Left		12.92	%	
	Right		11.22		

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Findings

Opinion