

# Report: \_\_\_\_\_



## Gait Analysis (Lateral)

First name:	Janet	Date of Birth:	2024-10-02	Therapist:	_____	Analysis Type:	Gait Analysis (Lateral)
Last name:	Test	Height:	3'	Analysis Date:	2024-10-23	Print Date:	2024-10-23
Patient Nr.:	_____	Gender:	Female				

### Summary

The patient's gait shows significant asymmetries between the left and right side in the spatio-temporal parameter gait variability. Additionally, some anomalies of the parameters can be found in the double support, gait variability, step length and stance time. The analysis of the angular values reveals significant asymmetries in the hip and knee during initial contact, loading response, mid stance, terminal stance, initial swing and mid swing phases. There are significant anomalies in the hip, knee and ankle during terminal stance, pre swing and mid swing phases.

### Analysis Notes:

### Report generated for:

OPED

Signature

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Patient Nr.: \_\_\_\_\_      Gender: Female

## Analysis Details

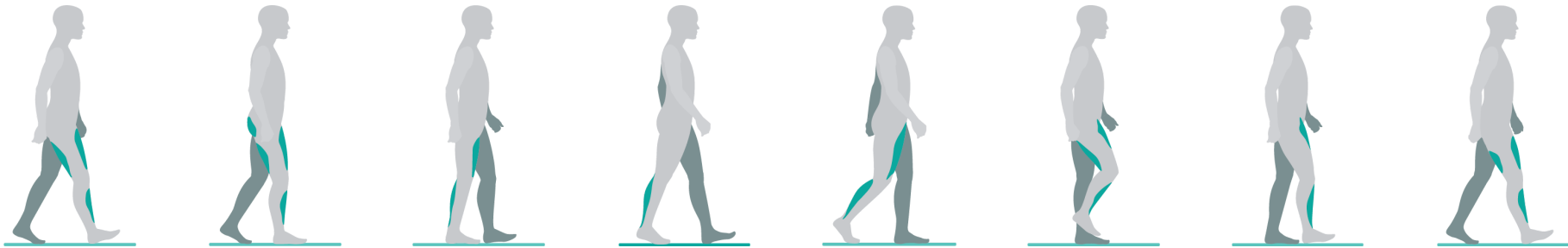
Metric Name	Measured Value	Reference Value	Interpretation
Number of Steps	12	-	The number of steps taken by the patient.
Gait Symmetry	98 %	> 90 %	Symmetry of the patient's movement. Gait symmetry within reference range.
Gait Speed	1.7 mph	1.2 - 3.1 mph	Speed of the patient's movement. Gait speed within reference range.
Cadence	112 Steps/min	90 - 115 Steps/min	Total steps per minute during the analysis. Cadence within reference range.
Double Support Left / Right	8 % / 12 %	10 - 40 %	Time both feet are on the ground. Left side below and right side within reference range.
Gait Variability Left / Right	1 % / 10 %	< 5 %	Step-to-step length variation. Significant asymmetries between sides. Left side within and right side above reference range.
Step Length Left / Right	1' 4" / 1' 5"	1' 10" - 2' 7"	Average distance between foot contacts. Step length below reference range.
Step Time Left / Right	0.54 s / 0.53 s	0.51 - 0.65 s	Average time between foot contacts. Step time within reference range with no significant asymmetries.
Stance Time Left / Right	54 % / 55 %	55 - 65 %	Time percentage foot is in contact with the ground. Left side below and right side within reference range.

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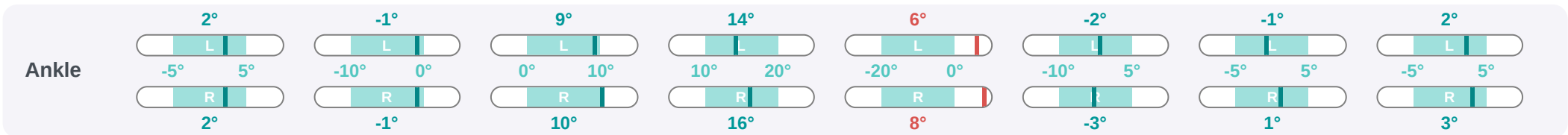
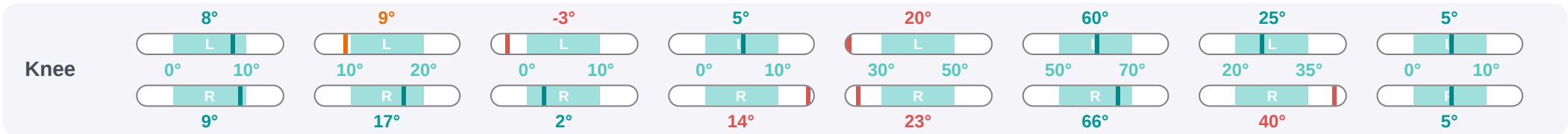
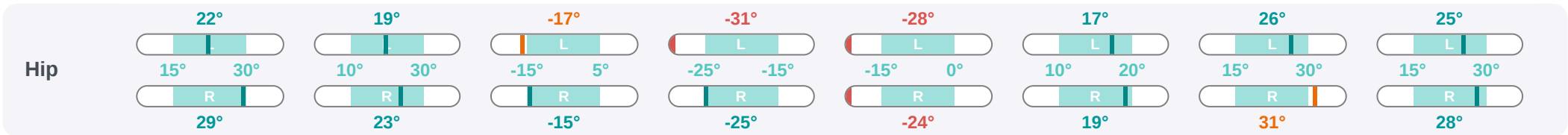
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## Phases of the Gait Cycle: Left & Right Leg



	<b>Initial Contact (IC)</b>	<b>Loading Response (LR)</b>	<b>Late Mid Stance (MSt)</b>	<b>Terminal Stance (TSt)</b>	<b>Pre Swing (PS)</b>	<b>Initial Swing (IS)</b>	<b>Mid Swing (MS)</b>	<b>Terminal Swing (TSw)</b>
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## Phases of the Gait Cycle: Summaries



### Initial Contact

The foot touches the ground for the first time, usually with the heel.



### Loading Response

The foot begins to take on the body's weight and the cushioning of the impact forces occurs.



### Mid Stance

The body is fully positioned over the stance leg, with the knee almost straight.



### Terminal Stance

The body is moved forward beyond the stance leg, as the heel begins to lift off the ground.

#### Hip

Some asymmetries between joints.

#### Knee

Some asymmetries between joints.

#### Knee

Some asymmetries between joints.

#### Hip

Some asymmetries between joints. Left extension below reference range.

#### Knee

Some asymmetries between joints.

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## Phases of the Gait Cycle: Summaries



### Pre Swing

The toes of the stance foot leave the ground, and the body weight is fully transferred to the other leg.



### Initial Swing

The foot leaves the ground, and the knee is flexed to clear the floor.



### Mid Swing

The swinging leg moves forward, and the knee starts to extend.



### Terminal Swing

The leg reaches full extension, and the foot prepares to make contact with the ground again.

#### Hip

Left extension significantly below and right extension below reference range.

#### Knee

Left flexion significantly below and right flexion below reference range.

#### Ankle

Both joints' dorsiflexion above reference range.

#### Knee

Some asymmetries between joints.

#### Hip

Some asymmetries between joints.

#### Knee

Significant asymmetries between joints.  
Right flexion above reference range.

No anomalies found.

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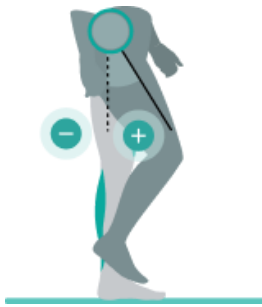
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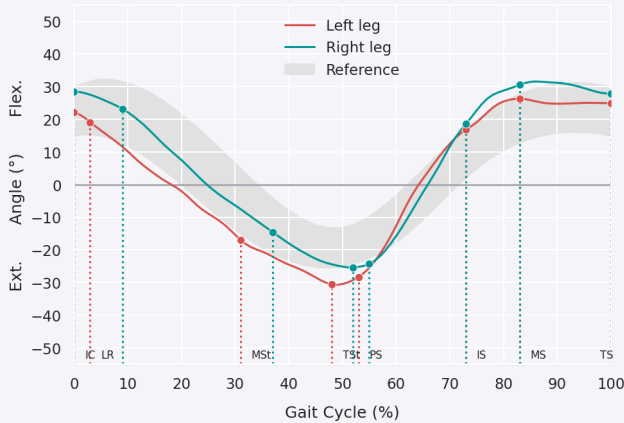
## Gait Phases Plots

### Hip Flexion/Extension

- + Flexion
- Extension

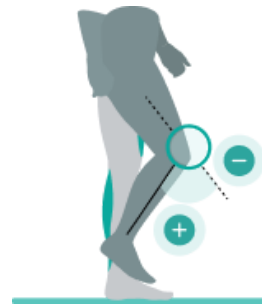


#### Results

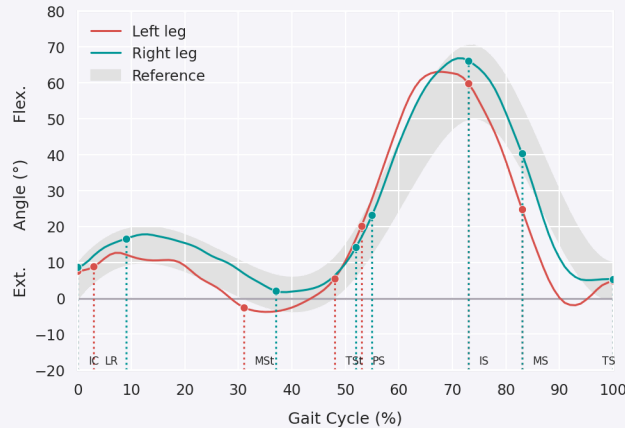


### Knee Flexion/Extension

- + Flexion
- Extension

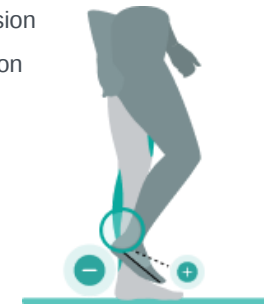


#### Results



### Ankle Dorsiextension/Plantarflexion

- + Dorsiextension
- Plantarflexion



#### Results

