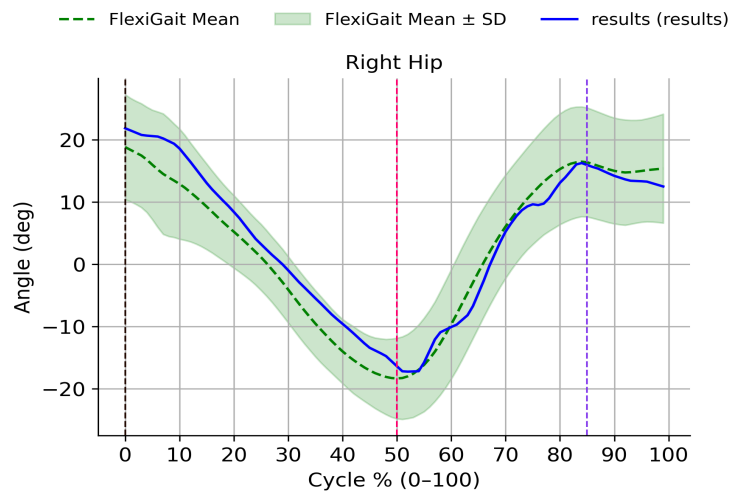
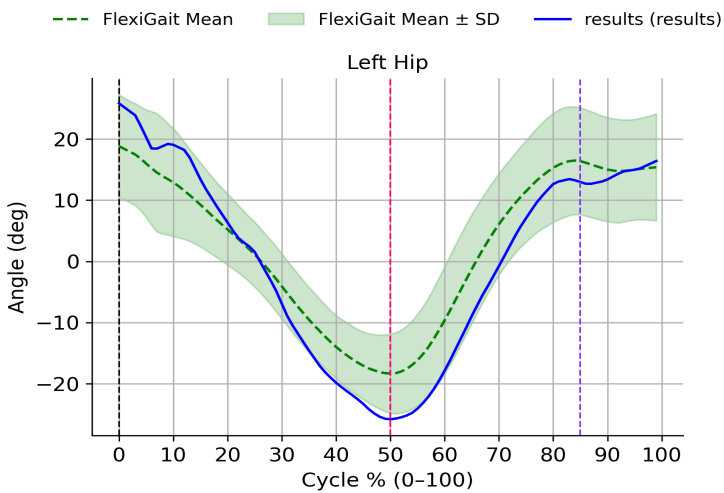
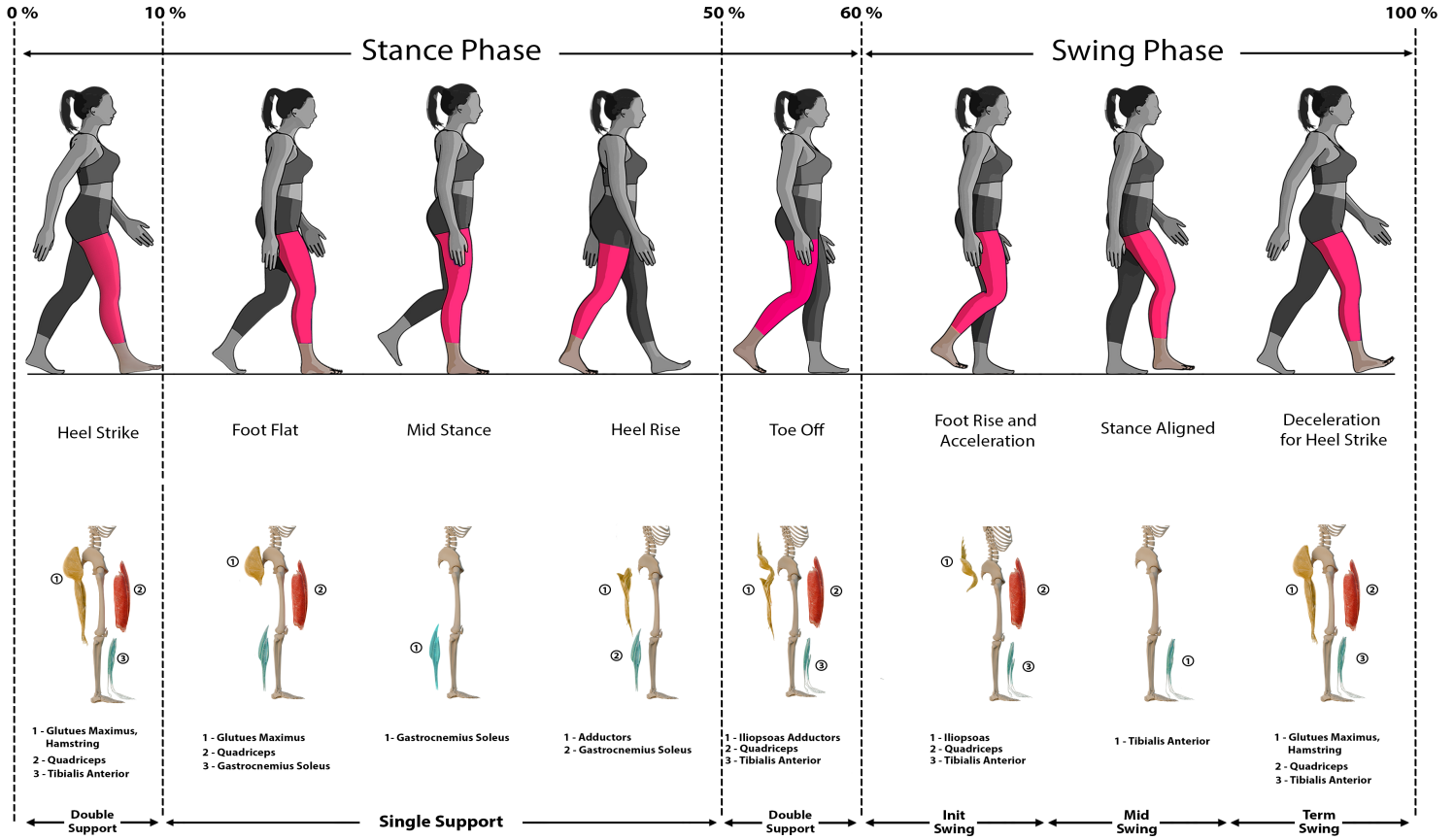


# Gait Analysis

Subject Name: results

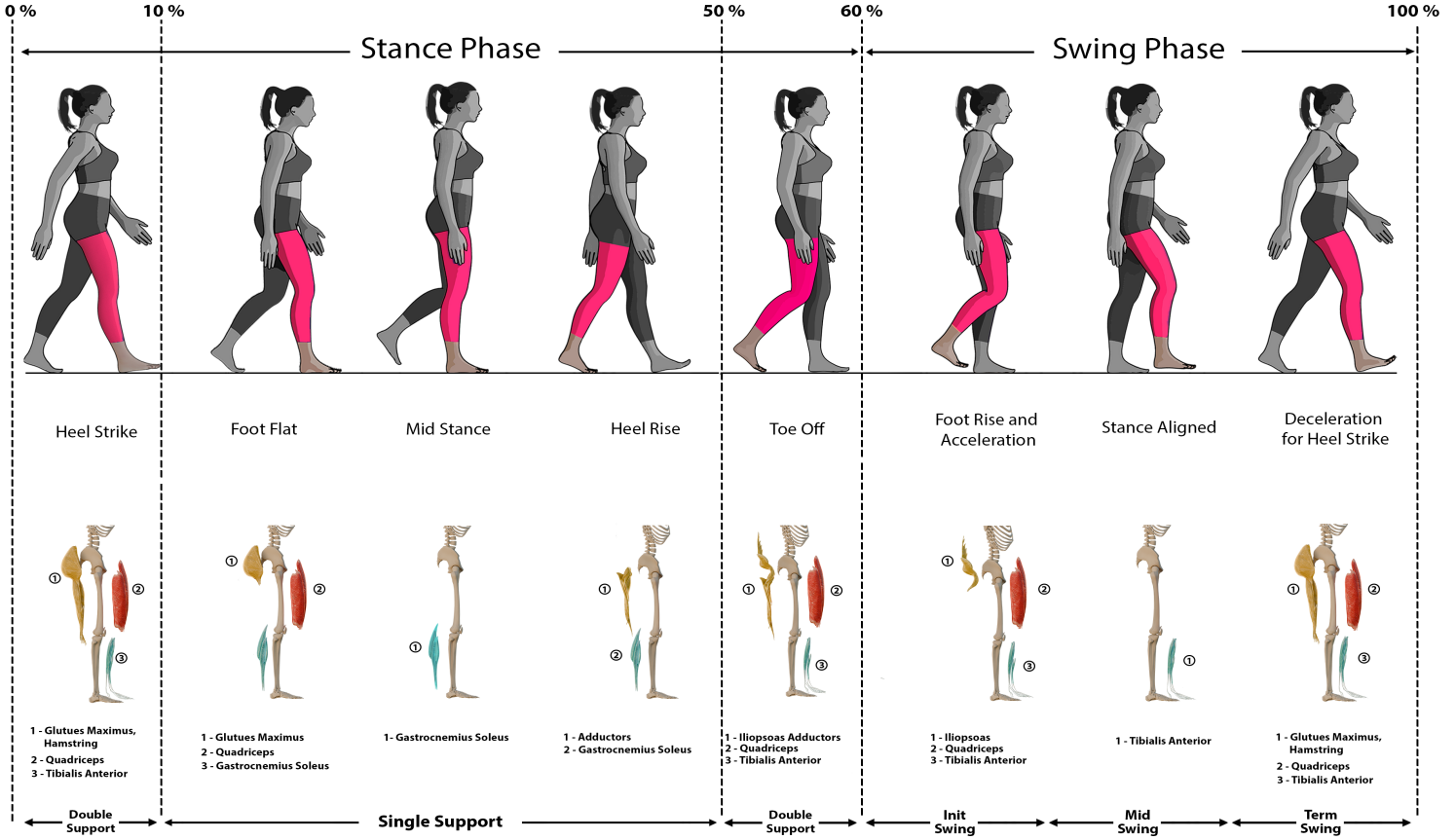
## Right Leg Muscle Activation



# Gait Analysis

Subject Name: results

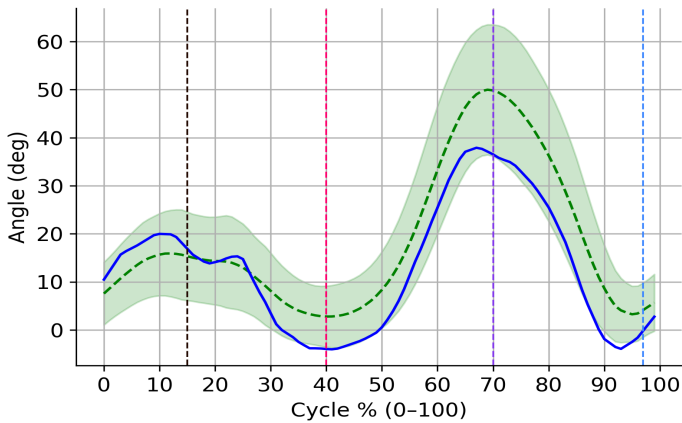
## Right Leg Muscle Activation



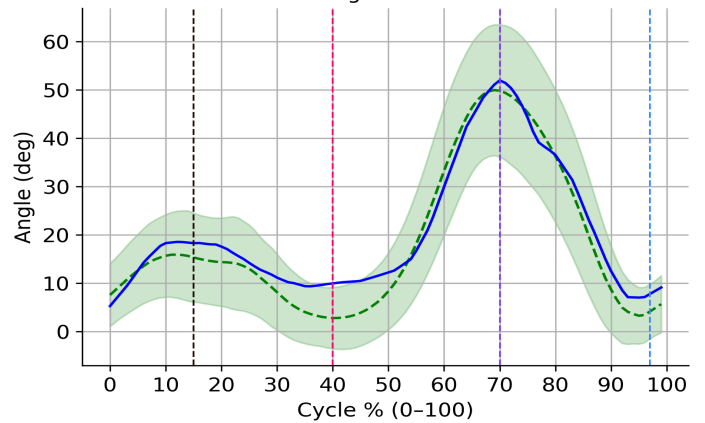
--- FlexiGait Mean    ■ FlexiGait Mean ± SD    — results (results)

--- FlexiGait Mean    ■ FlexiGait Mean ± SD    — results (results)

Left Knee



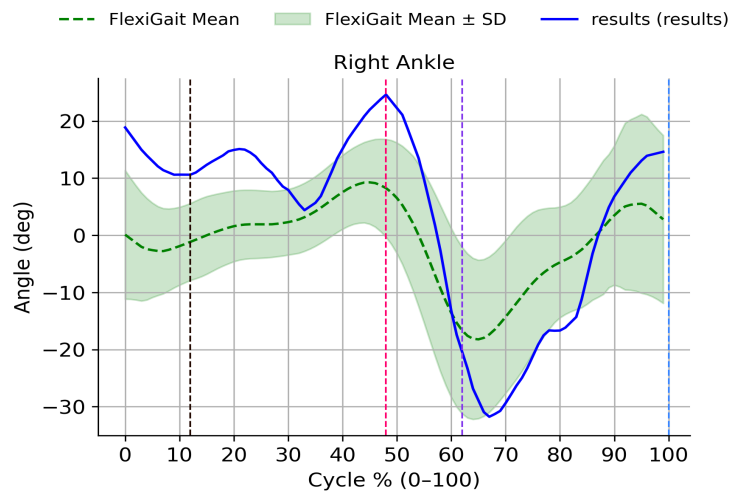
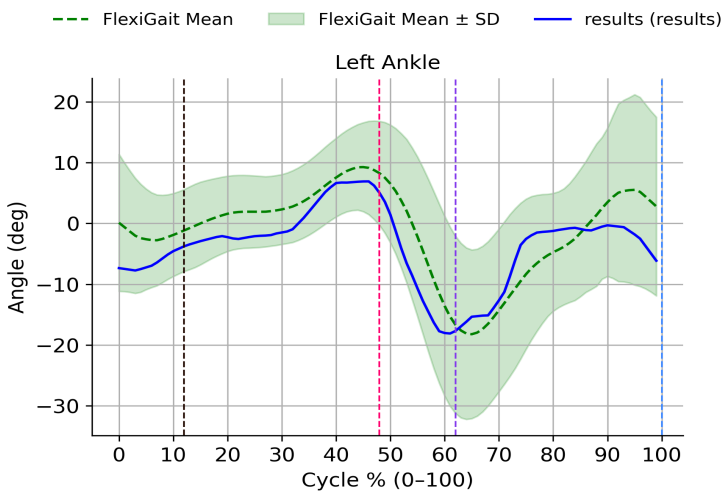
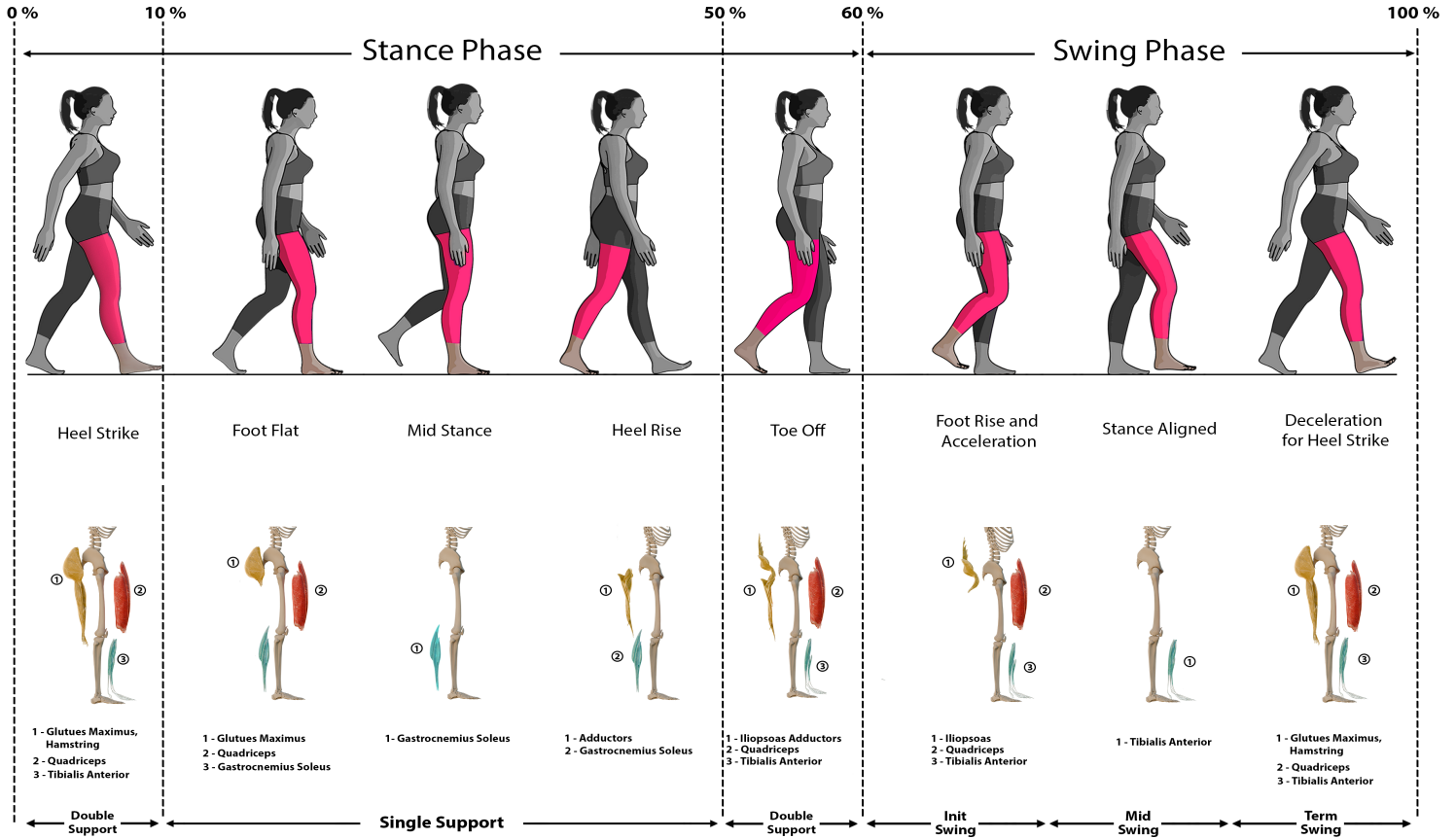
Right Knee



# Gait Analysis

Subject Name: results

## Right Leg Muscle Activation



# Gait Analysis

Subject Name: results



## Gait Parameters Analysis

	Step Time (s)	Stance Time (s)	Swing Time (s)	Stride Time (s)	Stance Phase (%)	Swing Phase (%)	Step Count	Cadence
Left	0.59	0.8	0.44	1.27	0.65	0.35	4	101.69
Right	0.68	0.85	0.41	1.27	0.68	0.32	3	88.24
Mean	0.64	0.83	0.43	1.27	0.66	0.34	7	95.45

### Approximate range (95% limits) for general gait parameters in free-speed walking by normal FEMALE subjects of different ages

Age (years)	Cadence (steps/min)	Cycle time (s)	Stride length (m)	Speed (m/s)
13-14	103-150	0.80-1.17	0.99-1.55	0.90-1.62
15-17	100-144	0.83-1.20	1.03-1.57	0.92-1.64
18-49	98-138	0.87-1.22	1.06-1.58	0.94-1.66
50-64	97-137	0.88-1.24	1.04-1.56	0.91-1.63
65-80	96-136	0.88-1.25	0.94-1.46	0.80-1.52

### Approximate range (95% limits) for general gait parameters in free-speed walking by normal MALE subjects of different ages

Age (years)	Cadence (steps/min)	Cycle time (s)	Stride length (m)	Speed (m/s)
13-14	100-149	0.81-1.20	1.06-1.64	0.95-1.67
15-17	96-142	0.85-1.25	1.15-1.75	1.03-1.75
18-49	91-135	0.89-1.32	1.25-1.85	1.10-1.82
50-64	82-126	0.95-1.46	1.22-1.82	0.96-1.68
65-80	81-125	0.96-1.48	1.11-1.71	0.81-1.61

### Approximate range (95% limits) for general gait parameters in free-speed walking by normal CHILDREN of different ages. (Ages one to seven based on reference Sutherland et al., 1988)

Age (years)	Cadence (steps/min)	Cycle time (s)	Stride length (m)	Speed (m/s)
1	127-223	0.54-0.94	0.29-0.58	0.32-0.96
1.5	126-212	0.57-0.95	0.33-0.66	0.39-1.03
2	125-201	0.60-0.96	0.37-0.73	0.45-1.09
2.5	124-190	0.63-0.97	0.42-0.81	0.52-1.16
3	123-188	0.64-0.98	0.46-0.89	0.58-1.22
3.5	122-186	0.65-0.98	0.50-0.96	0.65-1.29
4	121-184	0.65-0.99	0.54-1.04	0.67-1.32
5	119-180	0.67-1.01	0.59-1.10	0.71-1.37
6	117-176	0.68-1.03	0.64-1.16	0.75-1.43
7	115-172	0.70-1.04	0.69-1.22	0.80-1.48
8	113-169	0.71-1.06	0.75-1.30	0.82-1.50
9	111-166	0.72-1.08	0.82-1.37	0.83-1.53
10	109-162	0.74-1.10	0.88-1.45	0.85-1.55
11	107-159	0.75-1.12	0.92-1.49	0.86-1.57
12	105-156	0.77-1.14	0.96-1.54	0.88-1.60

## Expert comments

- .....
- .....
- .....
- .....

## Note:

### Plots:

- Percentage-based: A plot showing gait events as a percentage of the total cycle, measured from two successive heel strike positions.

### Definitions:

- Events: Distinct segments of the gait cycle, divided into stance (foot on ground) and swing (foot in the air).
- Cadence: The number of steps per minute, indicating walking speed.
- Leg Cycle: One full gait cycle, from one foot position to when the same position occurs again (heel strike to the next heel strike).
- Stride: The phase when the foot is off the ground, moving forward to the next step.
- Stance: The phase of the gait cycle when the foot is in contact with the ground, providing support for the body.
- Toe Off: The moment the toes leave the ground, ending stance and starting the swing phase.
- Heel Strike: The initial contact of the heel with the ground at the start of the stance phase of the gait cycle.
- Gait Step: A gait step is the movement from one foot's heel strike to the opposite foot's heel strike.
- GVS: The Gait Variable Score (GVS) quantifies deviations in specific gait kinematics from normative data.

### Angles:

- Knee Angle: The complement angle formed at the knee joint between the thigh and shank.
- Hip Angle: The complement angle between the thigh and a vertical line drawn from the ground.