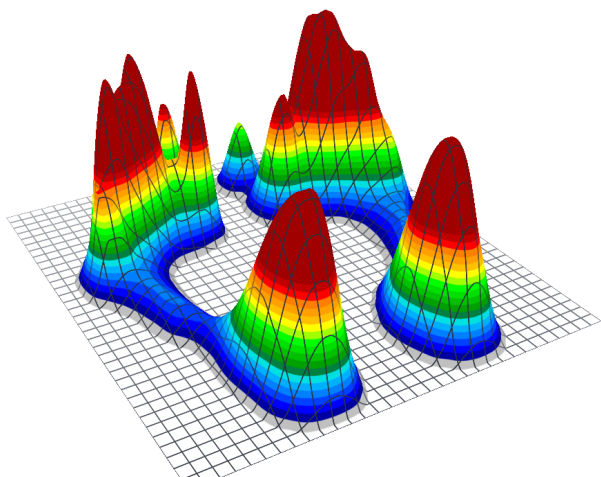


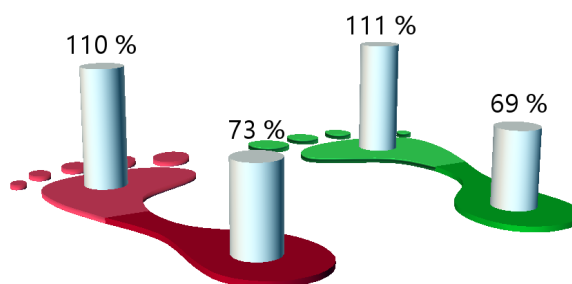
Pressure plot 3d

Stance, average



Force forefoot/backfoot

Max load (% of body weight)

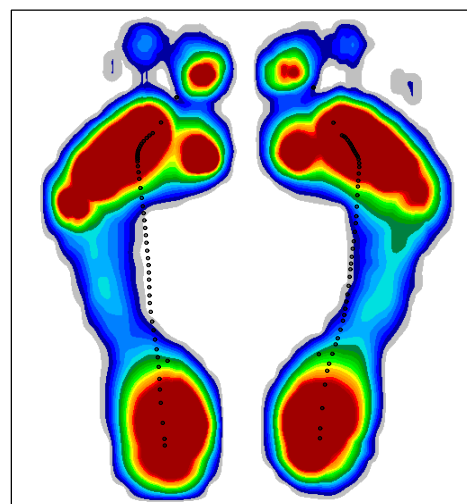
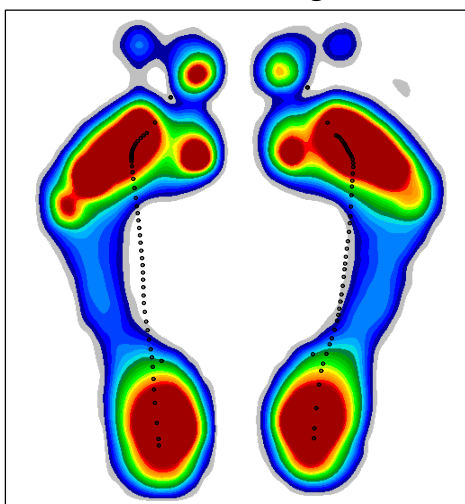
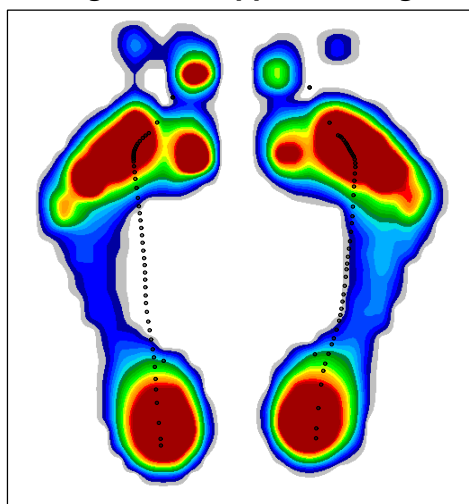


Pressure plots

Single limb support, average

Stance, average

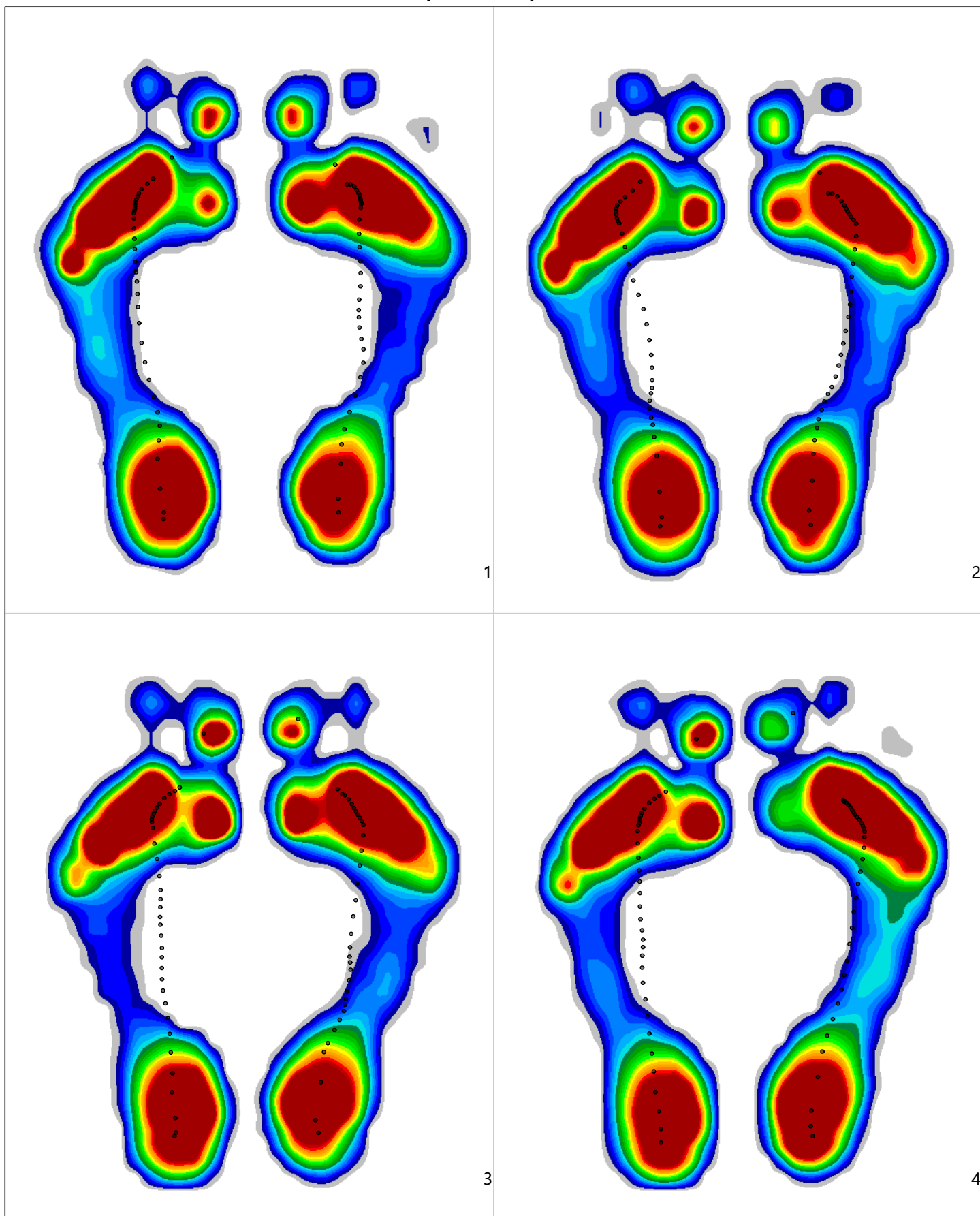
Stance, maximum



Fakulta sportovních studií Gait Report

Person: Matěj Vaníček, 28.11.2004
Record: 28.11.2024 11:39, Gait Analysis FDM, chuze

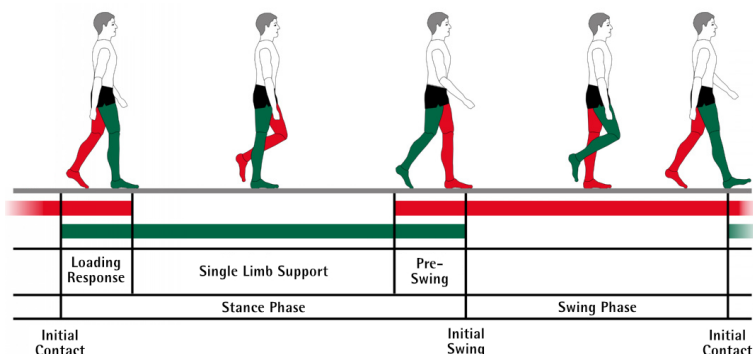
Separate footprints



Fakulta sportovních studií Gait Report

Person: Matěj Vaníček, 28.11.2004
 Record: 28.11.2024 11:39, Gait Analysis FDM, chuze

Gait parameters



Geometry

Foot rotation, degree	L	3,9	-8°	8°
	R	6,1±0,7		
Step length, cm	L	59		140 cm
	R	69		
Stride length, cm		128		140 cm
Step width, cm		17±0		

Phases

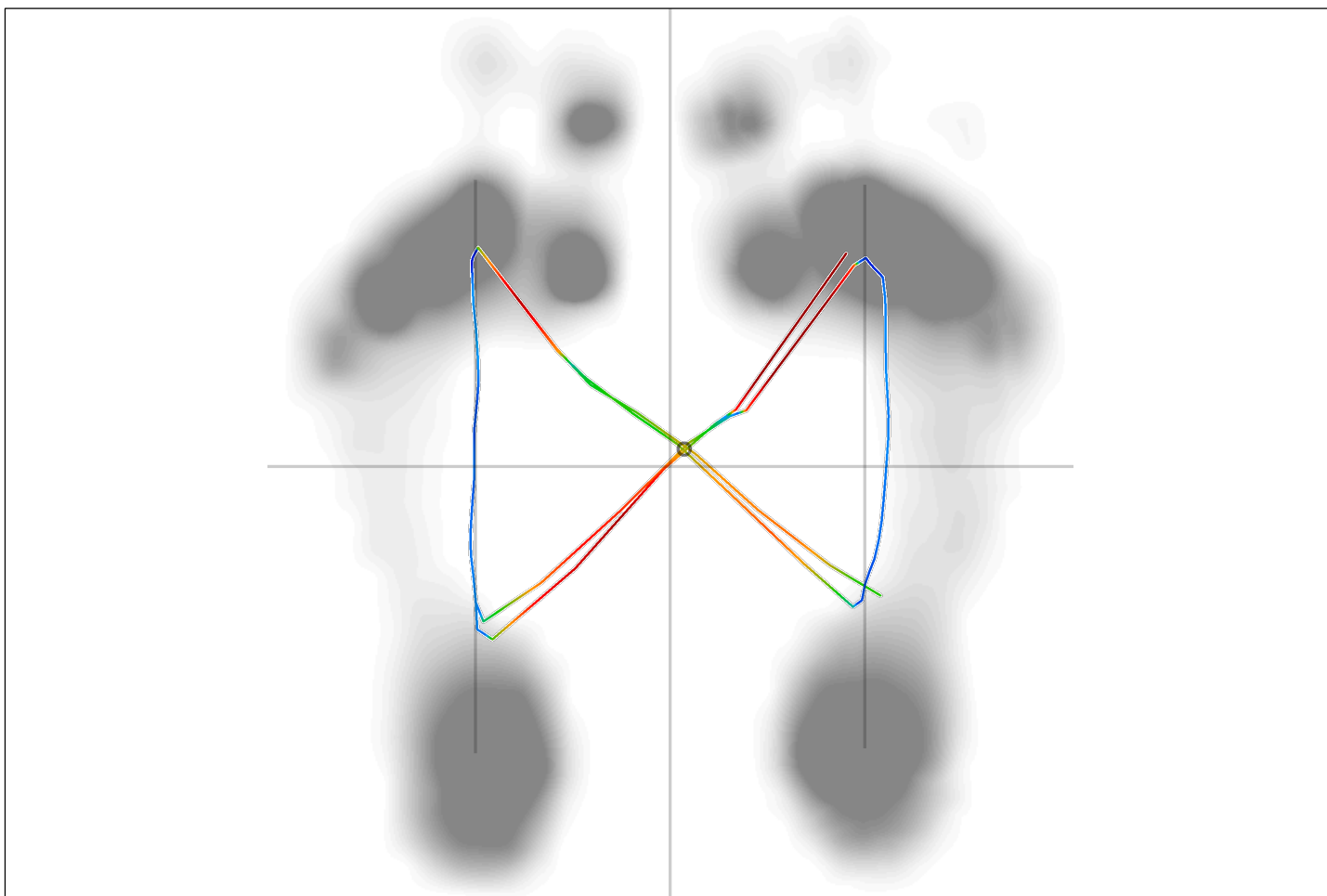
Stance phase, %	L	63,2		100 %
	R	60,9±0,5		
Load response, %	L	10,5		
	R	12,3		
Single limb support, %	L	40,4		
	R	36,8		
Pre-Swing, %	L	12,3		
	R	11,3±1,0		
Swing phase, %	L	36,8		
	R	39,1±0,5		
Double stance phase, %		23,7±0,9		

Timing

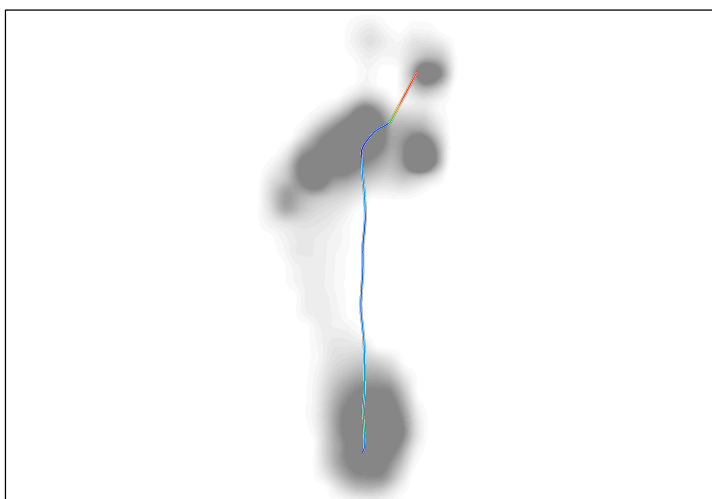
Step time, sec	L	0,56		1.2 sec
	R	0,58		
Stride time, sec		1,14		1.2 sec
Cadence, steps/min		105±1		120 steps/min
Velocity, km/h		4,1±0,1		5 km/h

COP analysis

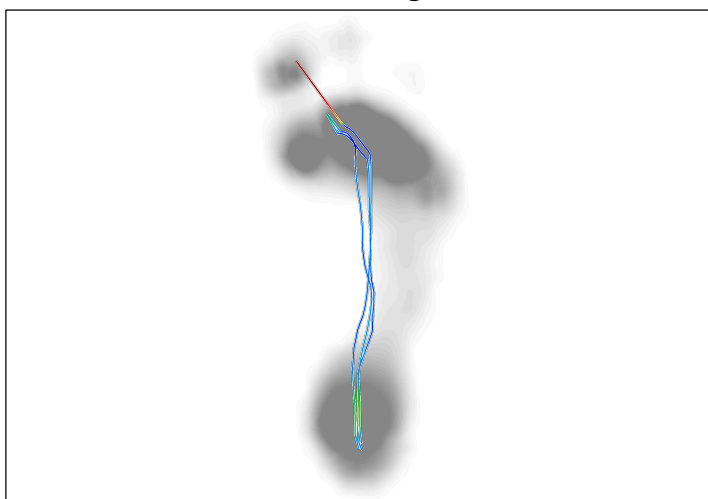
Butterfly



Gait line left



Gait line right

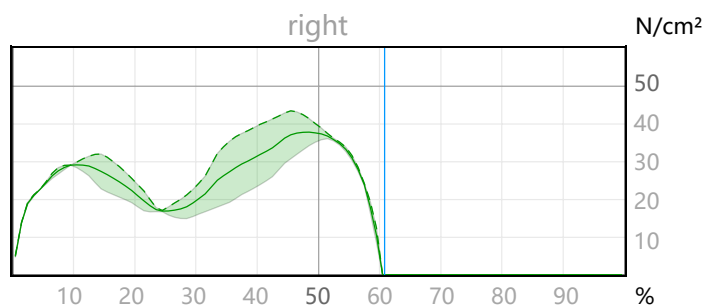
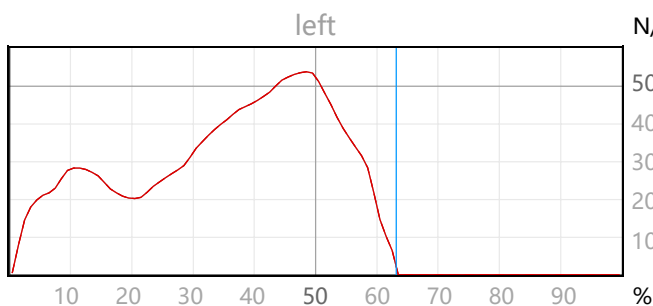


Butterfly parameters

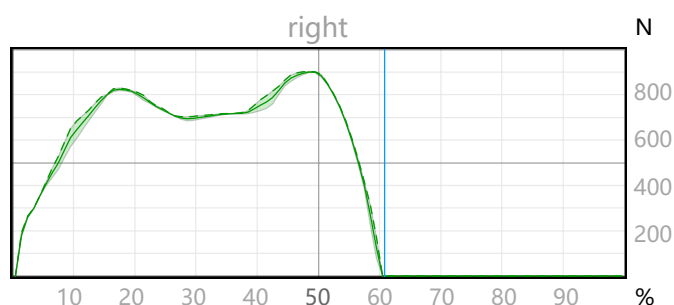
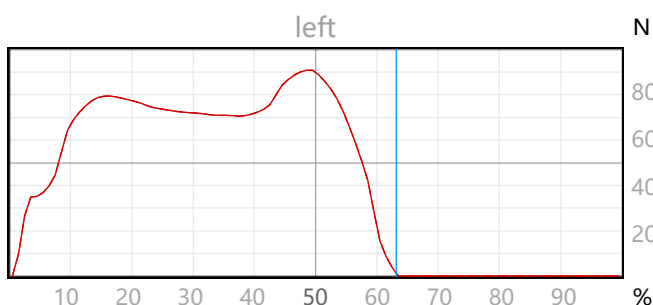
Length of gait line, mm	L	224,1±0,0	<div style="width: 100%; height: 10px; background-color: red;"></div> 240 mm
	R	206,7±16,8	<div style="width: 90%; height: 10px; background-color: green;"></div>
Single limb support line, mm	L	124,5	<div style="width: 50%; height: 10px; background-color: red;"></div>
	R	111,6	<div style="width: 45%; height: 10px; background-color: green;"></div>
Ant/post position, mm		5,7±0,6	<div style="width: 10%; height: 10px; background-color: blue;"></div> -120 mm 120 mm
Lateral symmetry, mm		4,6±0,3	<div style="width: 10%; height: 10px; background-color: blue;"></div> -21 mm 21 mm
Max gait line velocity, cm/sec		164,1	<div style="width: 100%; height: 10px; background-color: blue;"></div>

Force and pressure

Pressure curves



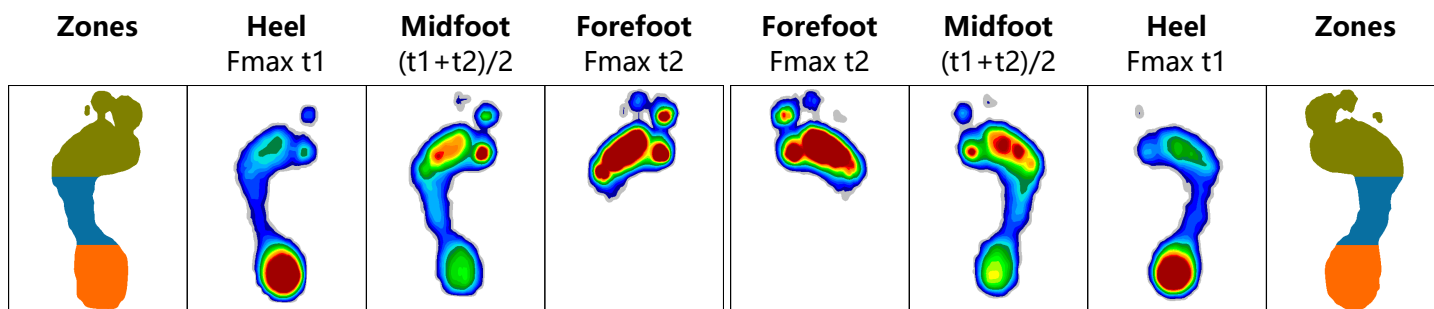
Force curves



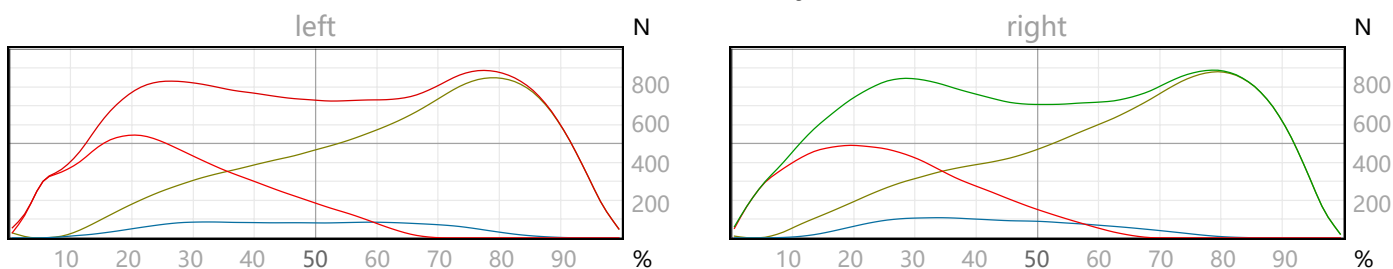
Force parameters

Maximum force1, N	L	794,2	<div style="width: 79.42%;"></div>	1000 N
	R	823,9	<div style="width: 82.39%;"></div>	
Time maximum force1, %	L	16	<div style="width: 16%;"></div>	100%
	R	17	<div style="width: 17%;"></div>	
Maximum force2, N	L	908,0	<div style="width: 90.8%;"></div>	1000 N
	R	900,3	<div style="width: 90.03%;"></div>	
Time maximum force2, %	L	49	<div style="width: 49%;"></div>	100%
	R	48	<div style="width: 48%;"></div>	

Three foot zone analysis



Force overlay



Load change

Time change heel to forefoot, sec	L	0,23±0,03		0.3 sec
	R	0,23±0,04		
Time change heel to forefoot, %	L	32,7±4,9		100%
	R	33,4±5,3		

Maximum force, N

Forefoot	L	851,7±21,2		1000 N
	R	884,2±21,8		
Midfoot	L	104,3±26,6		
	R	117,9±26,3		
Heel	L	558,3±26,5		
	R	506,7±17,3		

Maximum pressure, N/cm²

Forefoot	L	48,0±4,8		60 N/cm ²
	R	39,0±3,2		
Midfoot	L	19,9±4,9		
	R	9,9±1,4		
Heel	L	30,0±3,0		
	R	31,4±1,2		

Time maximum force, % of stance time






Forefoot	L	76,1±1,7		100%
	R	76,6±1,4		
Midfoot	L	38,0±12,0		
	R	33,4±9,4		
Heel	L	17,4±2,4		
	R	17,7±3,1		

Fakulta sportovních studií Gait Report

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Contact time, % of stance time

Forefoot	L	90,6±1,0	 100%
	R	90,8±1,1	
Midfoot	L	80,6±3,6	
	R	76,6±1,4	
Heel	L	62,3±2,0	
	R	60,3±4,8	