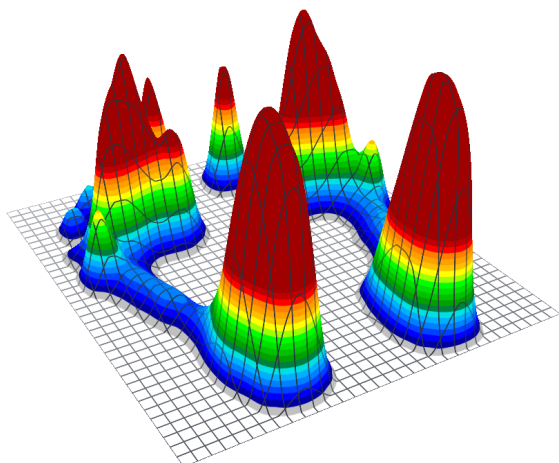


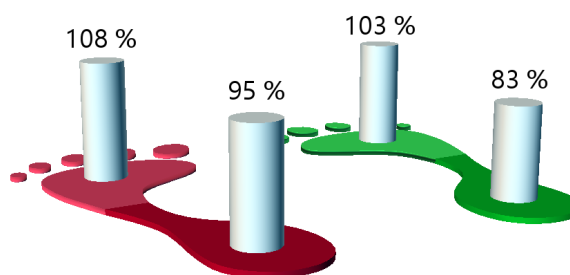
Pressure plot 3d

Stance, average



Force forefoot/backfoot

Max load (% of body weight)

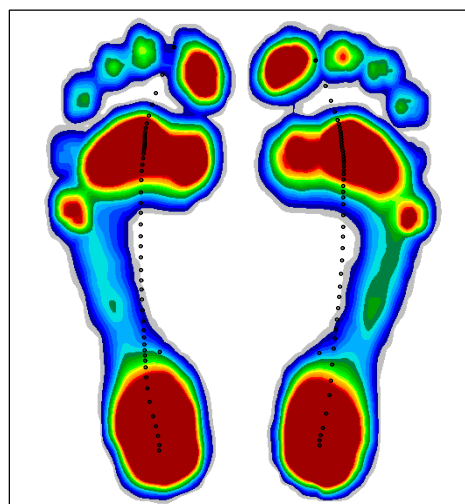
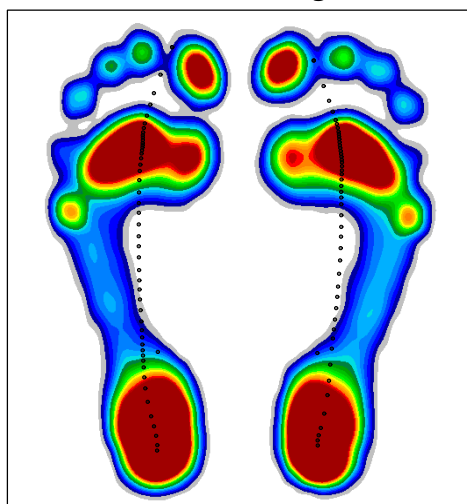
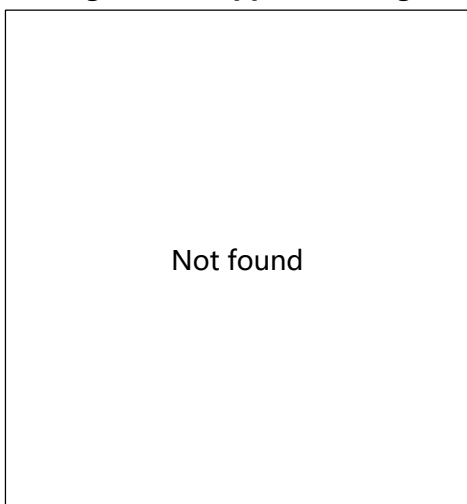


Pressure plots

Single limb support, average

Stance, average

Stance, maximum

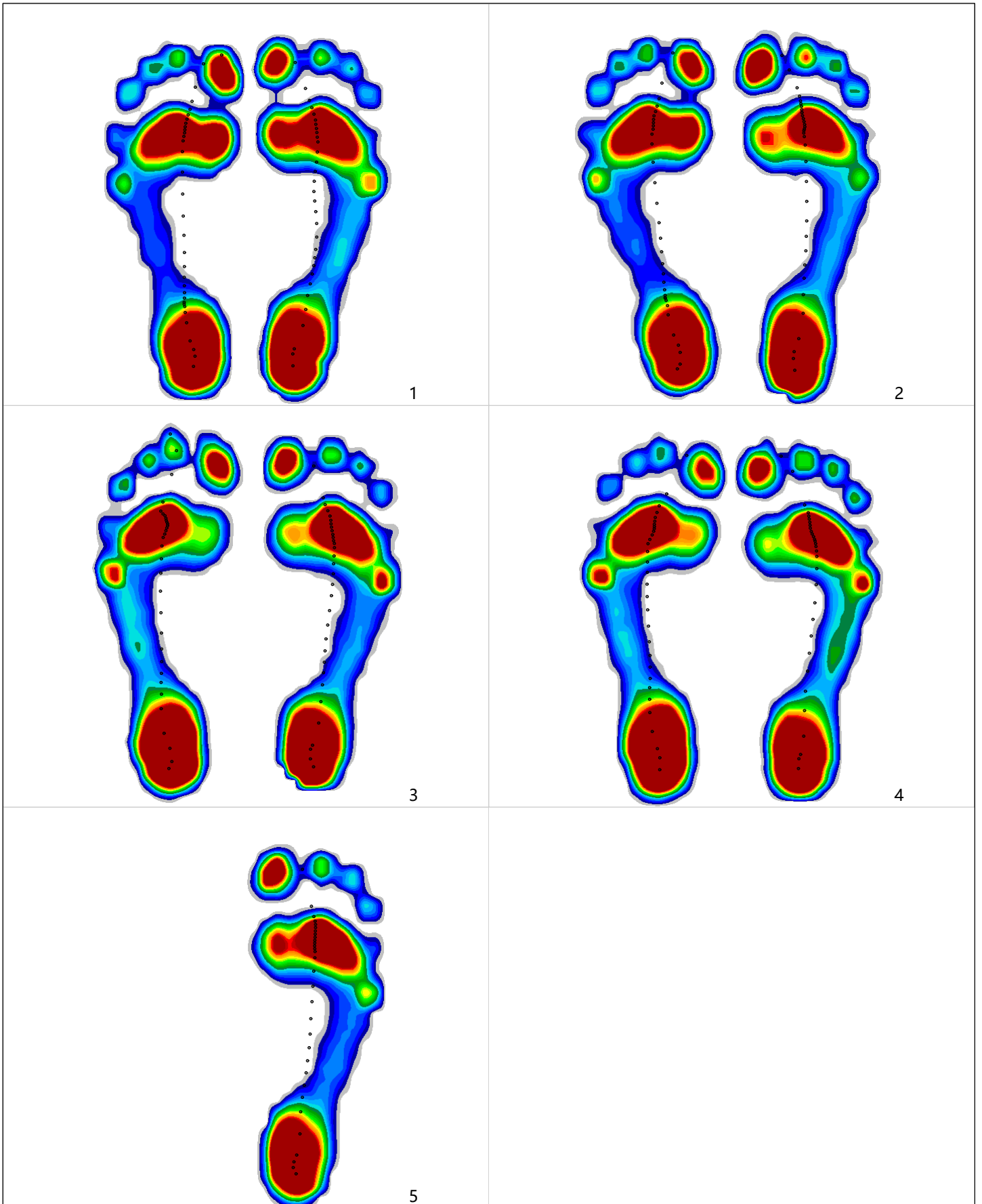


Fakulta sportovních studií Gait Report

Person: Matěj Kolník, 07.10.2001

Record: 28.11.2024 12:22, Gait Analysis FDM, chuze3

Separate footprints

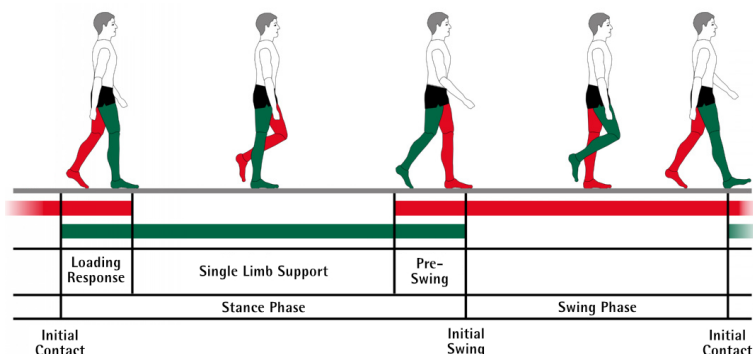


Fakulta sportovních studií Gait Report

Person: Matěj Kolník, 07.10.2001

Record: 28.11.2024 12:22, Gait Analysis FDM, chuze3

Gait parameters



Geometry

Foot rotation, degree	L	6,7	-8°		8°
	R	2,5			
Step length, cm	L	72			160 cm
	R	73			
Stride length, cm		145			160 cm
Step width, cm		13±2			

Phases

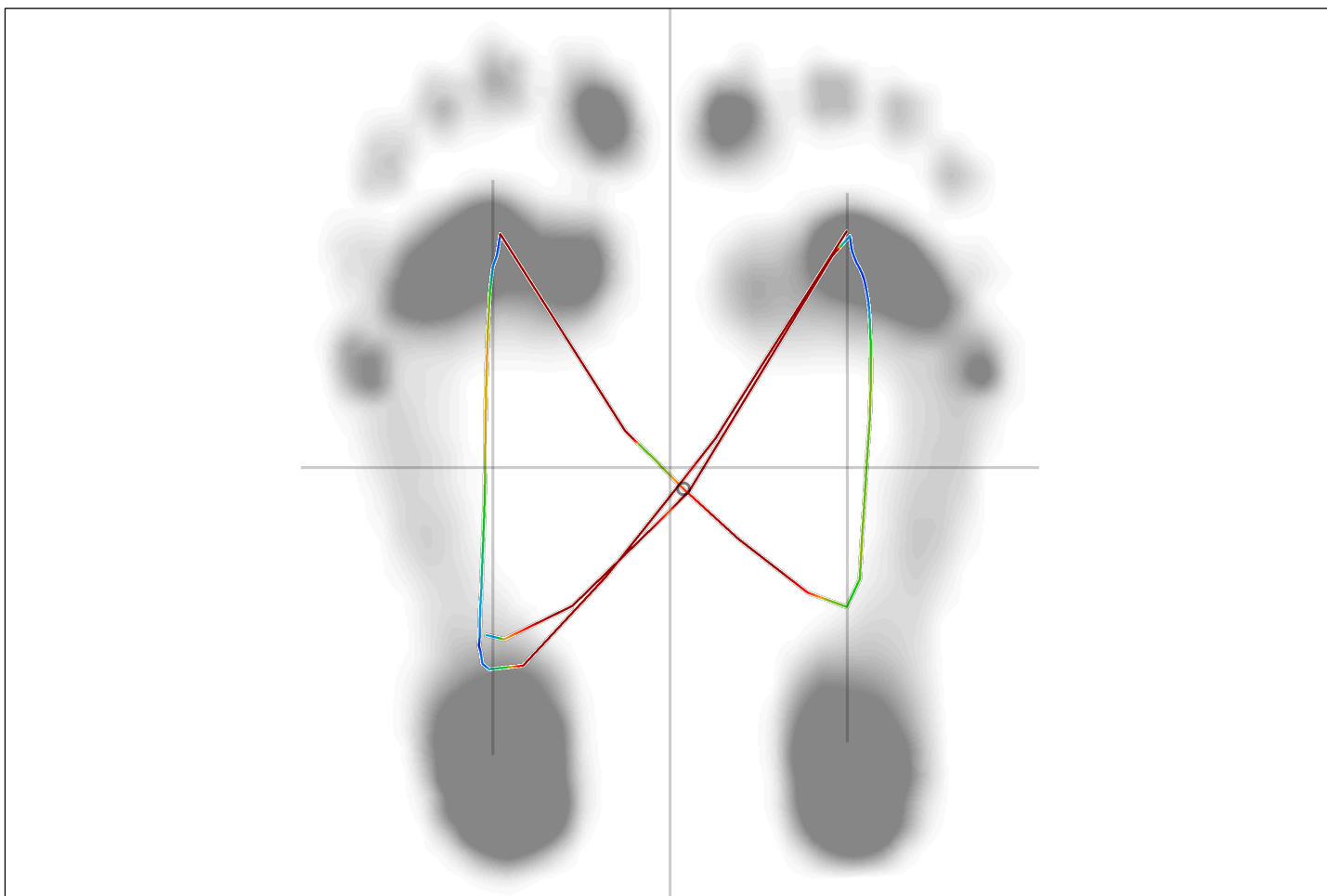
Stance phase, %	L	63,5			100 %
	R	59,6			
Load response, %	L	11,5			
	R	-			
Single limb support, %	L	40,4			
	R	-			
Pre-Swing, %	L	11,5			
	R	11,5			
Swing phase, %	L	36,5			
	R	40,4			
Double stance phase, %		23,1			

Timing

Step time, sec	L	0,50			1.1 sec
	R	0,54			
Stride time, sec		1,04			1.1 sec
Cadence, steps/min		115±0			130 steps/min
Velocity, km/h		5,0±0,0			6 km/h

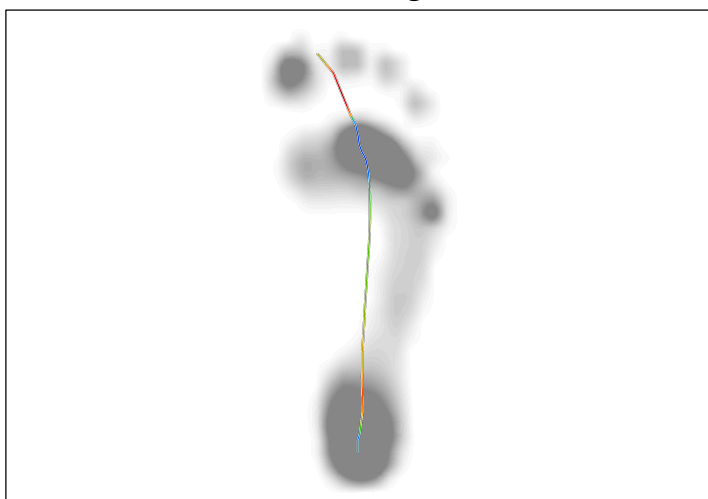
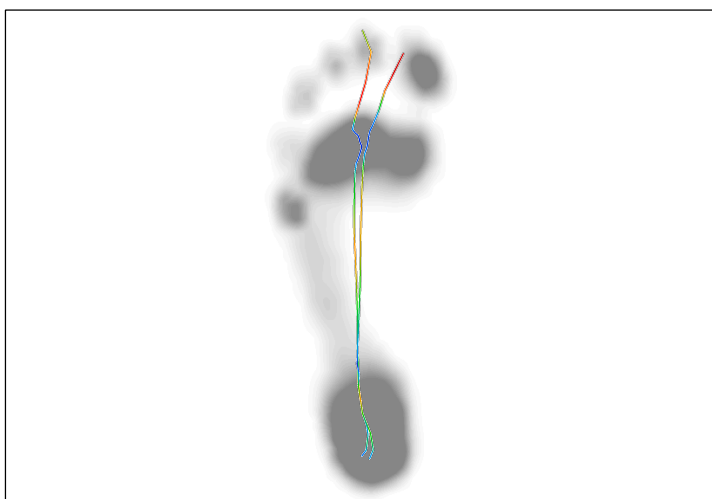
COP analysis

Butterfly



Gait line left

Gait line right

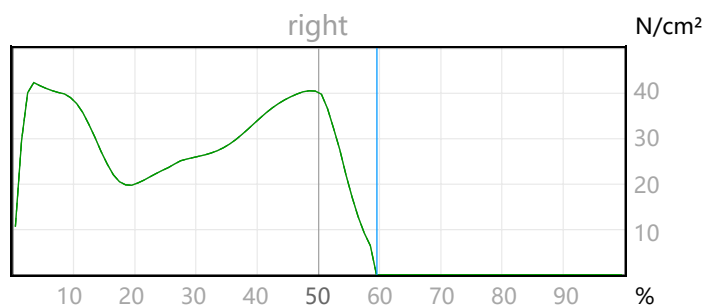
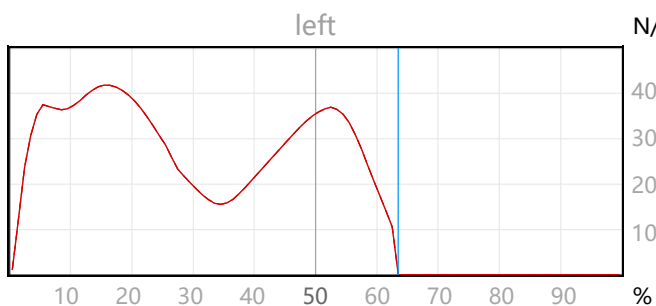


Butterfly parameters

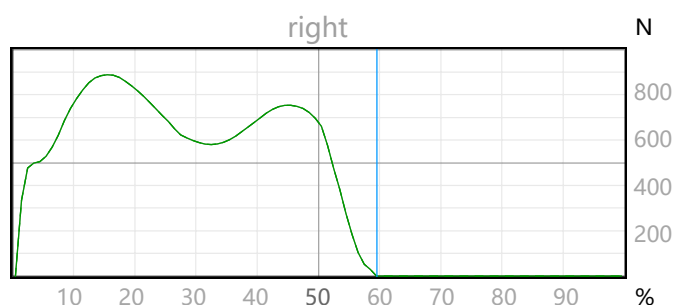
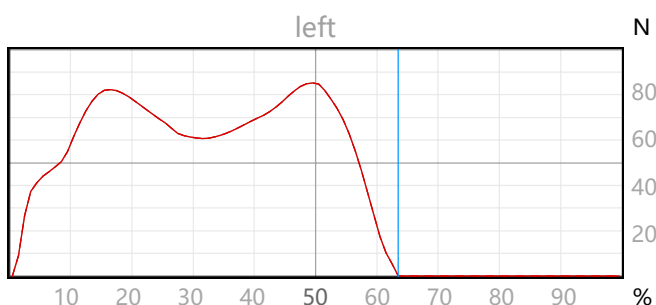
Length of gait line, mm	L	254,8±7,3	<div style="width: 100%; height: 10px; background-color: red;"></div> 300 mm	
	R	244,8±0,0	<div style="width: 100%; height: 10px; background-color: green;"></div>	
Single limb support line, mm	L	-	<div style="width: 50%; height: 10px; background-color: lightgreen;"></div>	
	R	-	<div style="width: 50%; height: 10px; background-color: lightgreen;"></div>	
Ant/post position, mm		-7,2±1,4	-150 mm	150 mm
Lateral symmetry, mm		4,6±1,4	-21 mm	21 mm
Max gait line velocity, cm/sec		139,9	<div style="width: 100%; height: 10px; background-color: blue;"></div>	

Force and pressure

Pressure curves



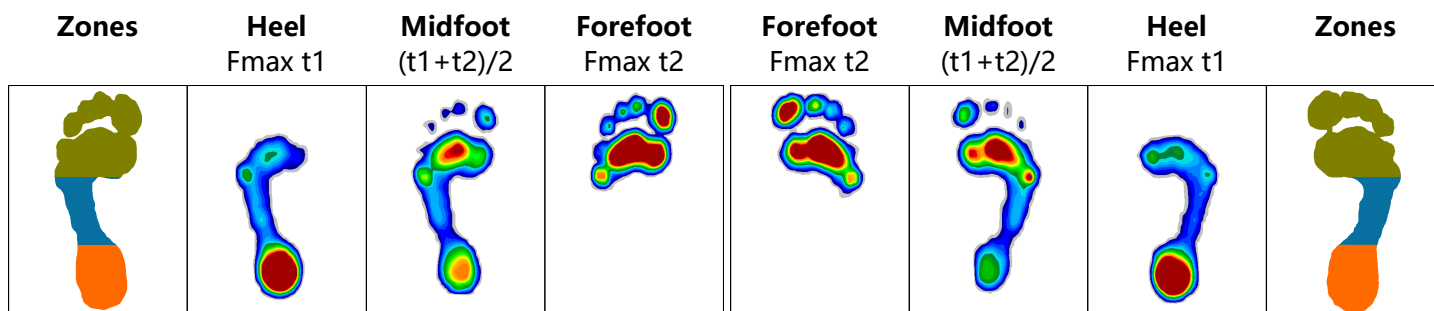
Force curves



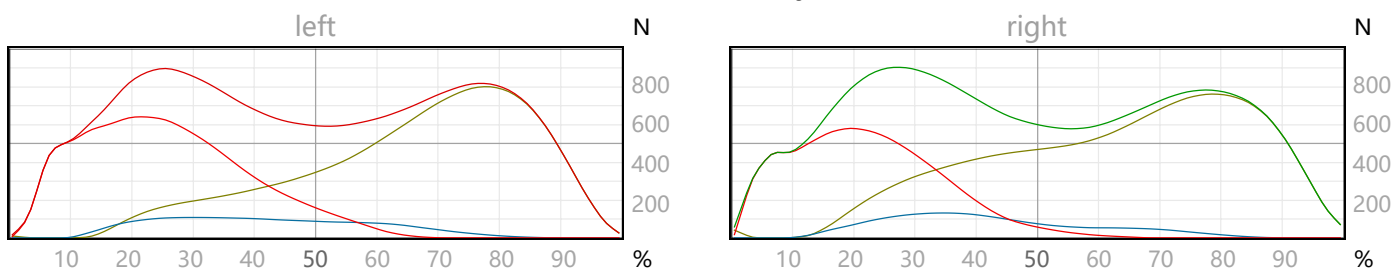
Force parameters

Maximum force1, N	L	822,5	<div style="width: 82.25%;"></div>	1000 N
	R	888,2	<div style="width: 88.82%;"></div>	
Time maximum force1, %	L	16	<div style="width: 16%;"></div>	100%
	R	15	<div style="width: 15%;"></div>	
Maximum force2, N	L	851,9	<div style="width: 85.19%;"></div>	1000 N
	R	753,3	<div style="width: 75.33%;"></div>	
Time maximum force2, %	L	49	<div style="width: 49%;"></div>	100%
	R	45	<div style="width: 45%;"></div>	

Three foot zone analysis



Force overlay



Load change

Time change heel to forefoot, sec	L	0,27±0,06		0.4 sec
	R	0,19±0,03		
Time change heel to forefoot, %	L	40,6±7,4		100%
	R	30,1±4,2		

Maximum force, N

Forefoot	L	805,0±38,8		1000 N
	R	765,3±38,6		
Midfoot	L	114,5±32,5		
	R	134,3±21,9		
Heel	L	665,2±23,0		
	R	587,7±14,0		

Maximum pressure, N/cm²

Forefoot	L	38,0±1,6		60 N/cm ²
	R	39,8±1,9		
Midfoot	L	15,8±4,3		
	R	17,2±4,4		
Heel	L	43,6±2,2		
	R	47,1±2,2		

Time maximum force, % of stance time






Forefoot	L	74,6±0,8		100%
	R	74,7±1,8		
Midfoot	L	41,9±13,4		
	R	31,7±3,5		
Heel	L	19,1±3,4		
	R	15,8±2,1		

Fakulta sportovních studií Gait Report

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Contact time, % of stance time

Forefoot	L	86,2±1,1		100%
	R	86,7±1,2		
Midfoot	L	70,9±4,1		
	R	72,2±3,1		
Heel	L	55,3±5,9		
	R	50,1±8,4	