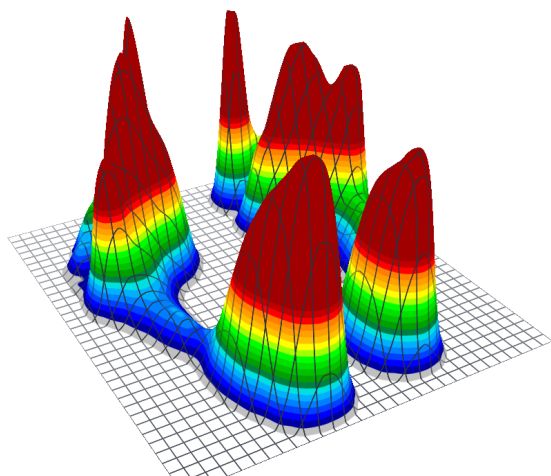


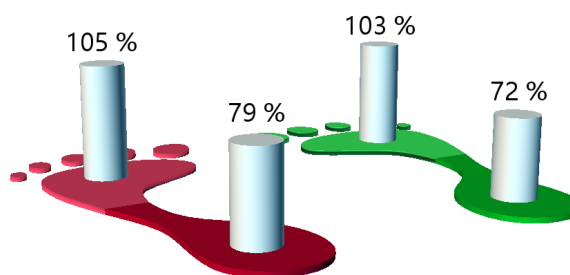
## Pressure plot 3d

Stance, average



## Force forefoot/backfoot

Max load (% of body weight)

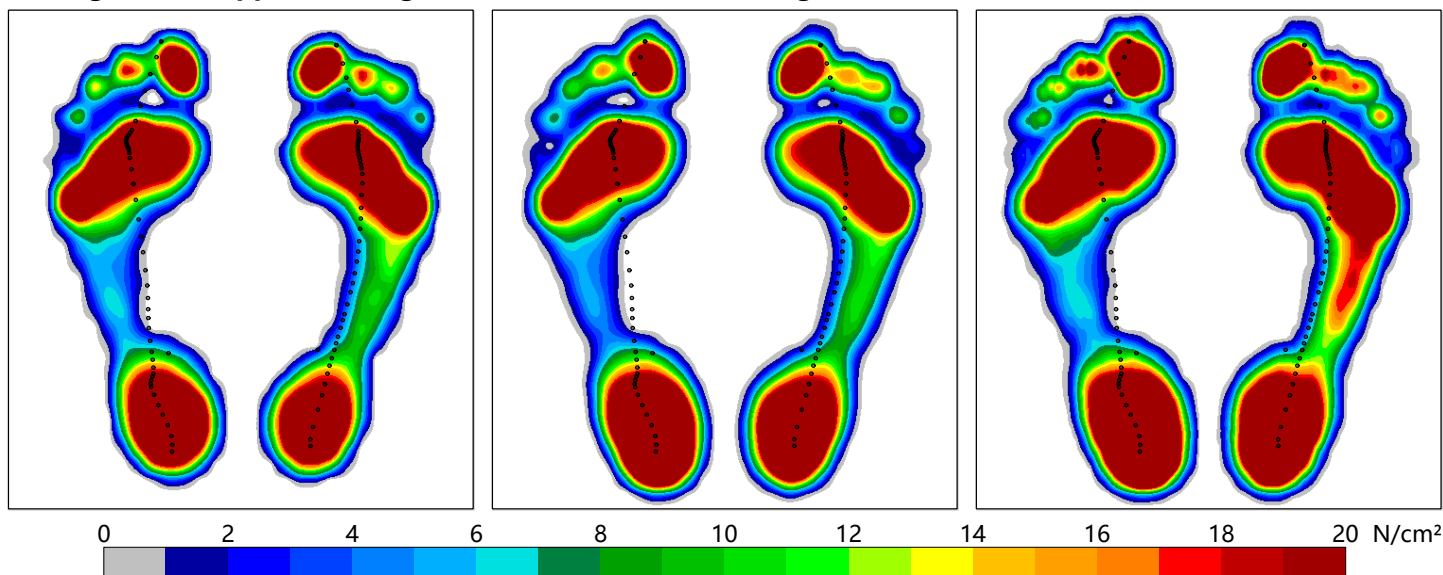


## Pressure plots

Single limb support, average

Stance, average

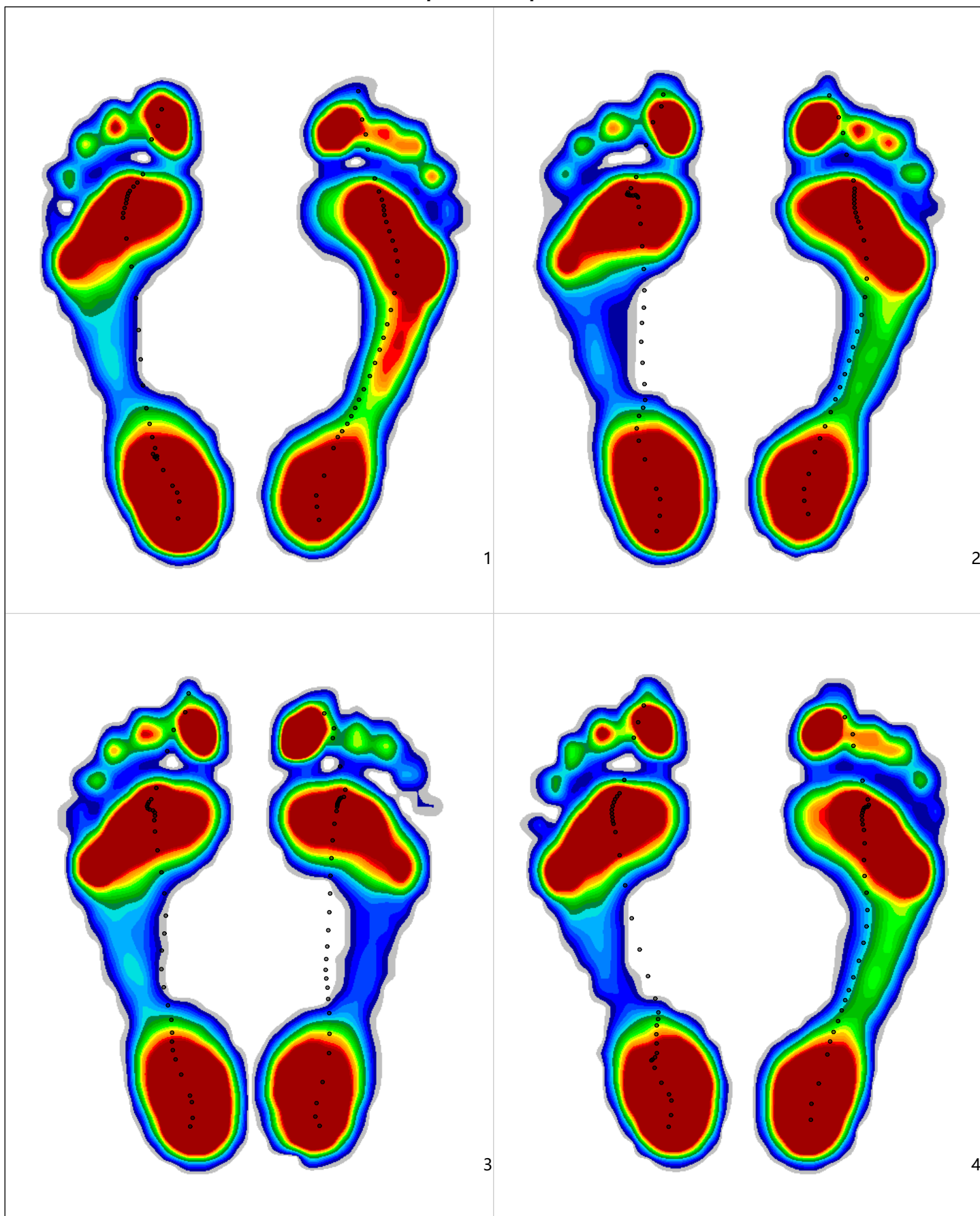
Stance, maximum



# Fakulta sportovních studií Gait Report

Person: Alexandra Matušková, 16.11.2004  
Record: 28.11.2024 12:40, Gait Analysis FDM, chuze

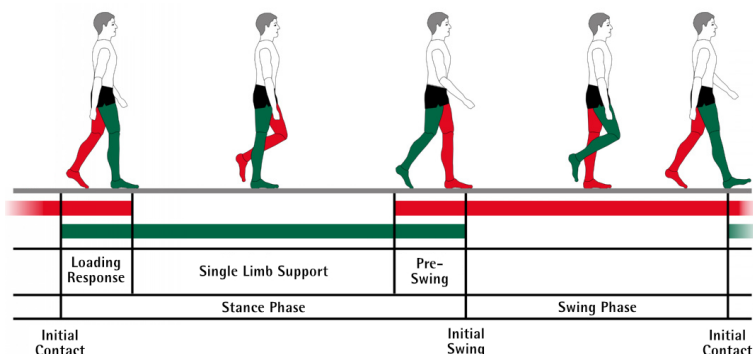
## Separate footprints



# Fakulta sportovních studií Gait Report

Person: Alexandra Matušková, 16.11.2004  
 Record: 28.11.2024 12:40, Gait Analysis FDM, chuze

## Gait parameters



### Geometry

|                       |   |         |      |  |        |
|-----------------------|---|---------|------|--|--------|
| Foot rotation, degree | L | 7,9±0,6 | -12° |  | 12°    |
|                       | R | 10,9    |      |  |        |
| Step length, cm       | L | 67      |      |  | 140 cm |
|                       | R | 62      |      |  |        |
| Stride length, cm     |   | 129     |      |  | 140 cm |
| Step width, cm        |   | 13±2    |      |  |        |

### Phases

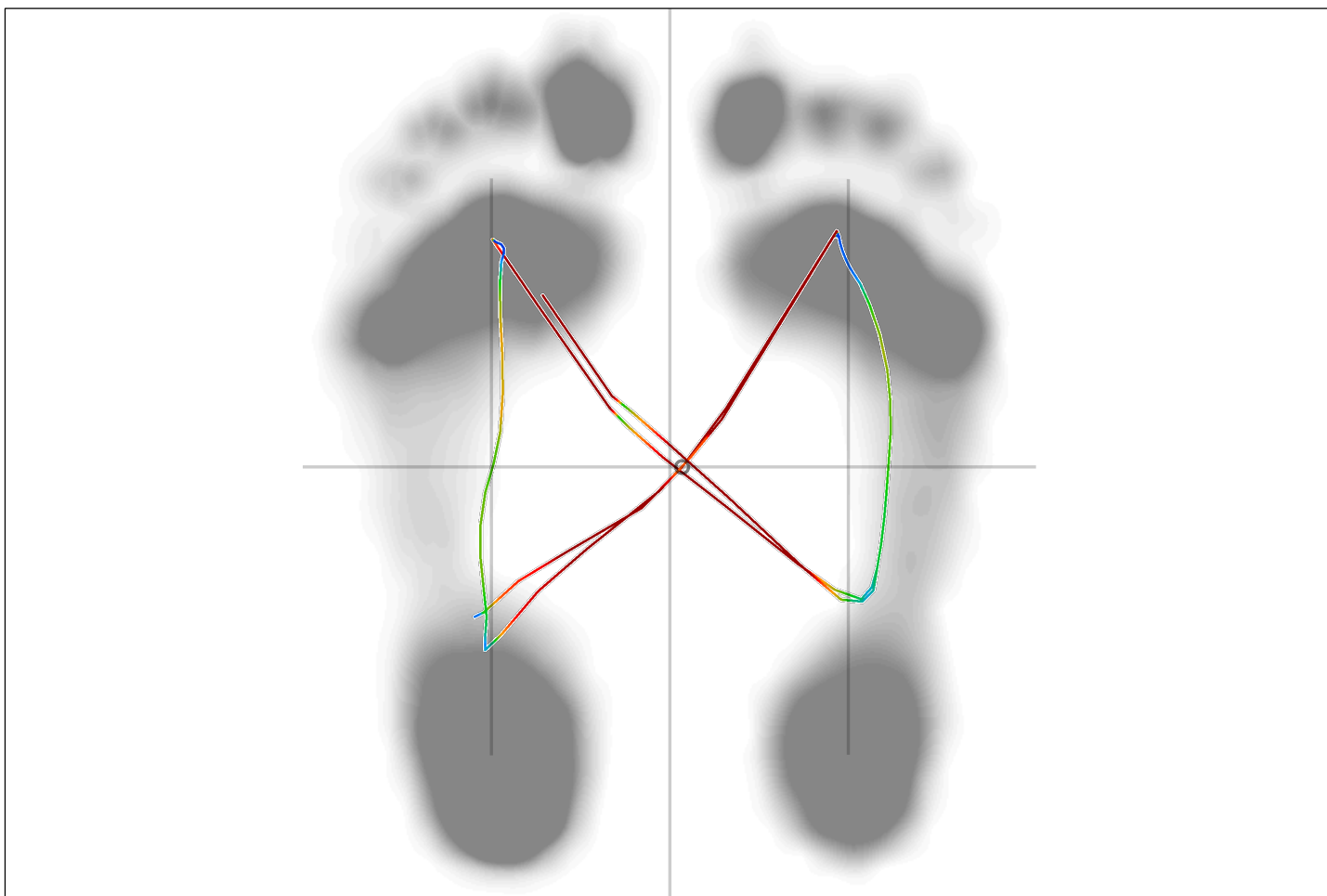
|                        |   |          |  |  |       |
|------------------------|---|----------|--|--|-------|
| Stance phase, %        | L | 66,3±1,0 |  |  | 100 % |
|                        | R | 65,4     |  |  |       |
| Load response, %       | L | 15,4     |  |  |       |
|                        | R | 15,4     |  |  |       |
| Single limb support, % | L | 34,6     |  |  |       |
|                        | R | 34,6     |  |  |       |
| Pre-Swing, %           | L | 16,3±1,0 |  |  |       |
|                        | R | 15,4     |  |  |       |
| Swing phase, %         | L | 33,7±1,0 |  |  |       |
|                        | R | 34,6     |  |  |       |
| Double stance phase, % |   | 31,7±1,0 |  |  |       |

### Timing

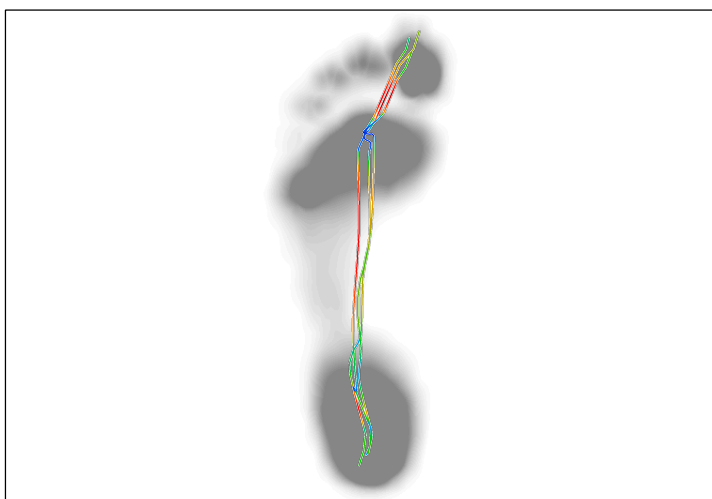
|                    |   |         |  |  |               |
|--------------------|---|---------|--|--|---------------|
| Step time, sec     | L | 0,52    |  |  | 1.1 sec       |
|                    | R | 0,52    |  |  |               |
| Stride time, sec   |   | 1,04    |  |  | 1.1 sec       |
| Cadence, steps/min |   | 115±0   |  |  | 130 steps/min |
| Velocity, km/h     |   | 4,5±0,0 |  |  | 5 km/h        |

## COP analysis

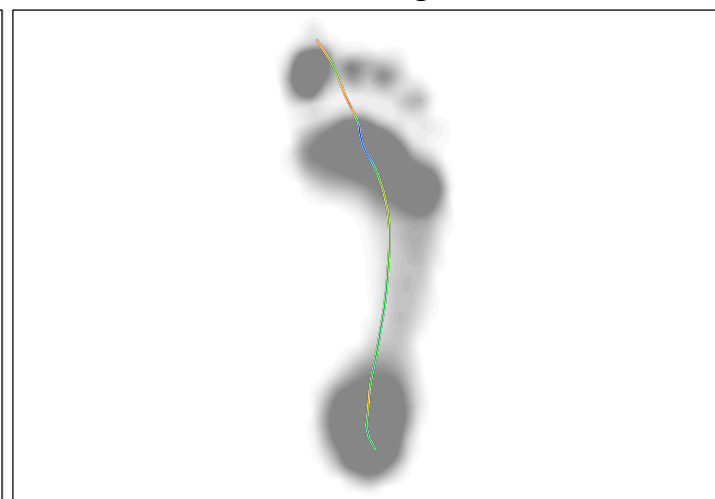
### Butterfly



Gait line left



Gait line right



### Butterfly parameters

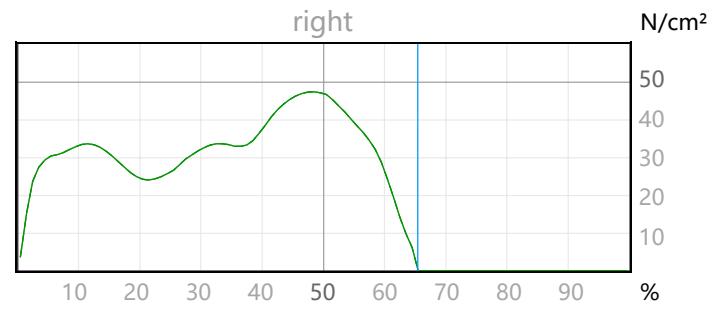
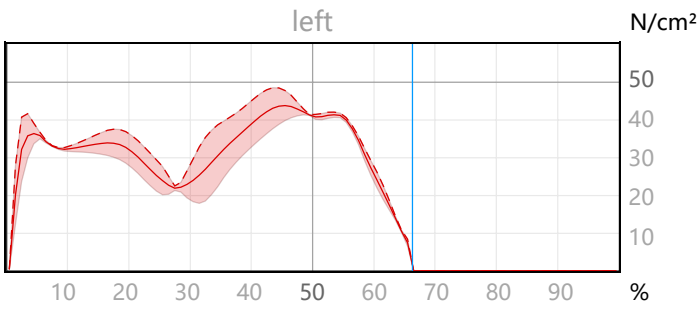
|                                |   |           |                                 |        |
|--------------------------------|---|-----------|---------------------------------|--------|
| Length of gait line, mm        | L | 237,4±6,8 | <div style="width: 79%;"></div> | 300 mm |
|                                | R | 233,0±0,0 | <div style="width: 78%;"></div> |        |
| Single limb support line, mm   | L | 125,6     | <div style="width: 42%;"></div> |        |
|                                | R | 111,2     | <div style="width: 37%;"></div> |        |
| Ant/post position, mm          |   | -0,0±1,4  | <div style="width: 0%;"></div>  | 150 mm |
| Lateral symmetry, mm           |   | 3,9±1,2   | <div style="width: 13%;"></div> | 21 mm  |
| Max gait line velocity, cm/sec |   | 107,2     | <div style="width: 36%;"></div> |        |

# Fakulta sportovních studií Gait Report

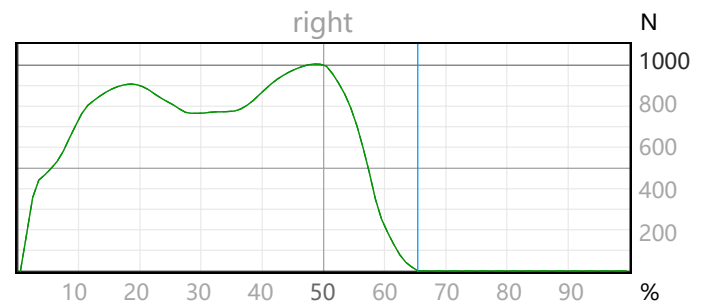
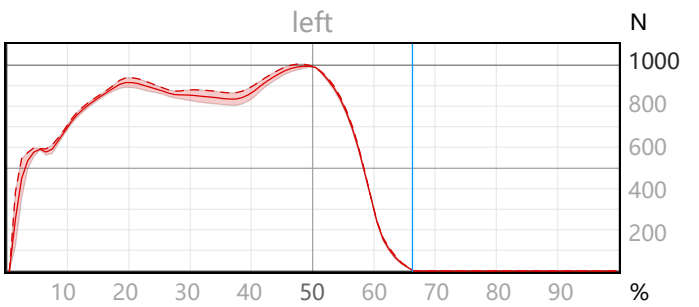
Person: Alexandra Matušková, 16.11.2004  
 Record: 28.11.2024 12:40, Gait Analysis FDM, chuze

## Force and pressure

### Pressure curves



### Force curves



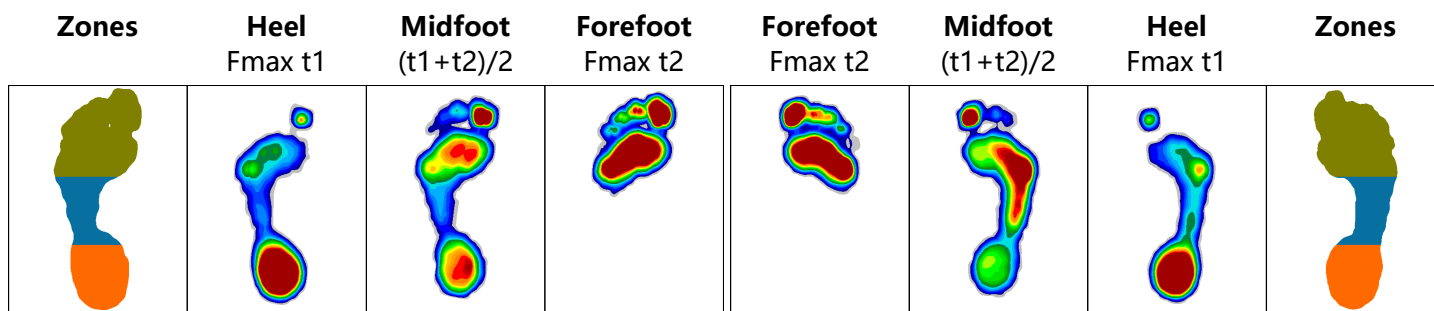
### Force parameters

|                        |   |        |                                   |        |
|------------------------|---|--------|-----------------------------------|--------|
| Maximum force1, N      | L | 915,0  | <div style="width: 82.7%;"></div> | 1100 N |
|                        | R | 907,9  | <div style="width: 81.8%;"></div> |        |
| Time maximum force1, % | L | 19     | <div style="width: 19%;"></div>   | 100%   |
|                        | R | 18     | <div style="width: 18%;"></div>   |        |
| Maximum force2, N      | L | 994,1  | <div style="width: 90.4%;"></div> | 1100 N |
|                        | R | 1004,9 | <div style="width: 91.3%;"></div> |        |
| Time maximum force2, % | L | 49     | <div style="width: 49%;"></div>   | 100%   |
|                        | R | 48     | <div style="width: 48%;"></div>   |        |

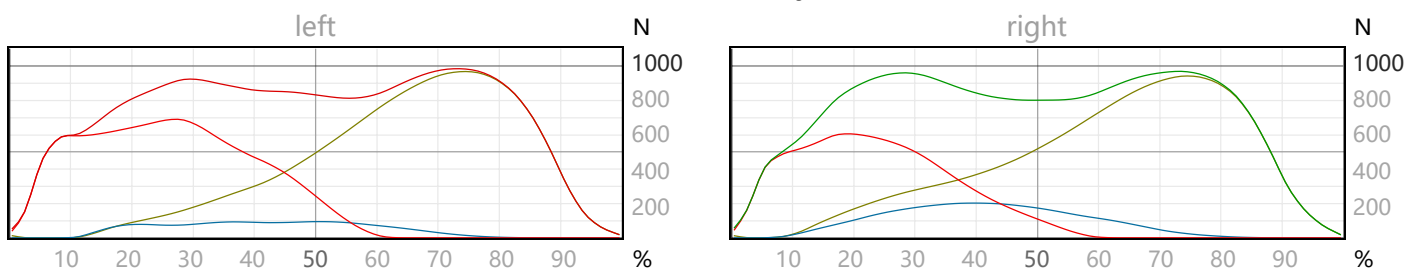
# Fakulta sportovních studií Gait Report

Person: Alexandra Matušková, 16.11.2004  
 Record: 28.11.2024 12:40, Gait Analysis FDM, chuze

## Three foot zone analysis



### Force overlay



### Load change

|                                   |   |           |         |
|-----------------------------------|---|-----------|---------|
| Time change heel to forefoot, sec | L | 0,29±0,04 | 0.4 sec |
|                                   | R | 0,24±0,02 |         |
| Time change heel to forefoot, %   | L | 41,4±5,8  | 100%    |
|                                   | R | 34,7±2,8  |         |

### Maximum force, N

|          |   |            |        |
|----------|---|------------|--------|
| Forefoot | L | 976,6±6,4  | 1100 N |
|          | R | 947,3±27,3 |        |
| Midfoot  | L | 120,9±16,9 |        |
|          | R | 209,2±85,4 |        |
| Heel     | L | 696,9±41,1 |        |
|          | R | 616,4±28,4 |        |

### Maximum pressure, N/cm²

|          |   |           |          |
|----------|---|-----------|----------|
| Forefoot | L | 53,9±15,9 | 90 N/cm² |
|          | R | 55,8±15,3 |          |
| Midfoot  | L | 14,9±2,1  |          |
|          | R | 28,5±9,0  |          |
| Heel     | L | 40,4±4,2  |          |
|          | R | 34,4±2,7  |          |

### Time maximum force, % of stance time

|          |   |           |      |
|----------|---|-----------|------|
| Forefoot | L | 70,7±2,2  | 100% |
|          | R | 72,5±1,5  |      |
| Midfoot  | L | 35,7±12,1 |      |
|          | R | 34,1±7,5  |      |
| Heel     | L | 24,3±1,5  |      |
|          | R | 16,6±2,2  |      |







# Fakulta sportovních studií Gait Report

Person: Alexandra Matušková, 16.11.2004

Record: 28.11.2024 12:40, Gait Analysis FDM, chuze

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SPORT

## Contact time, % of stance time

|          |   |          |   |
|----------|---|----------|---|
| Forefoot | L | 86,4±1,3 |  100% |
|          | R | 89,1±1,2 |       |
| Midfoot  | L | 72,9±1,1 |       |
|          | R | 76,1±2,3 |       |
| Heel     | L | 57,1±1,8 |       |
|          | R | 56,5±0,6 |       |