



Patient
Project Project 1
Last Name
First Name
Sex Female

Record
Name 3mph barefoot
Date Measured 3/17/2020 13:28
Number of peri... 58



Kineticode - Locomotion Gait and Running -

Marker, 1.54 s

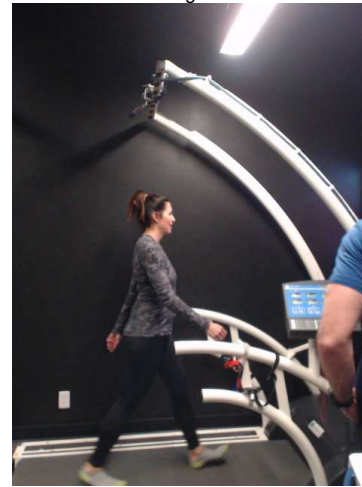
Computer-aided gait analysis makes possible the quantification of weight-bearing events by using state-of-the-art pressure technology and examining the ground force reaction to an area over time which it occurs as a person is moving. In turn, this data that is captured can be turned into meaningful information that allows diagnostic considerations and supports individualized treatment protocols.*

Your report consists of three main sections. The first involves the complete spatial and temporal parameters, with timing and left to right symmetries highlighted here for easy analysis and comparison. The second provides the analysis of the center of pressure (COP) data for each step, left and right stabilities, and an illustration for the total body center of pressure, with balance summary. The third part shows a summary of every step and an averaging of the maximum pressure plots with overlaid gait lines. A fourth section is available to those using the video module to gather kinematic data, time curves, loading responses and segmented force separated out by specific foot region.**

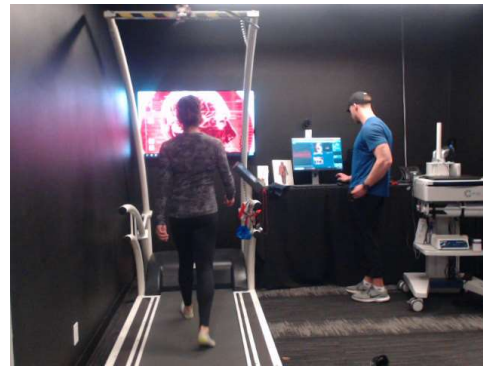
*Crawford, S (2012). The Next Generation: Noraxon's FDM-Treadmill System for Stance and Gait Analysis. Profiles in Excellence Nov/Dec 2012. 180-182.

** Crawford, S. (2014). Anatomy of a COP Gait Line: Patient Treatment Considerations, Shortcomings in Gait Analysis. PM tech Forum September 2014.

Sagittal



Posterior





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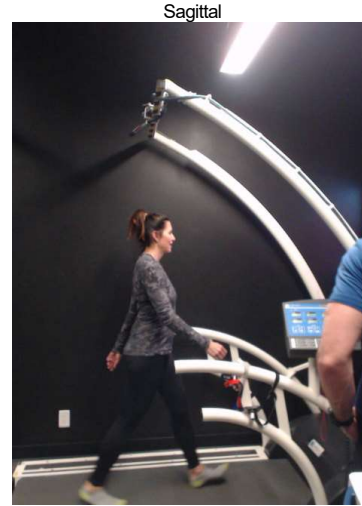
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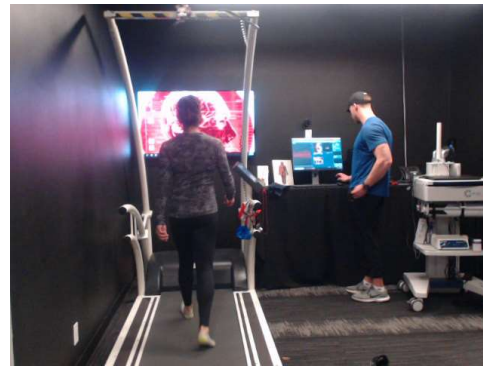
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Marker, Statistics



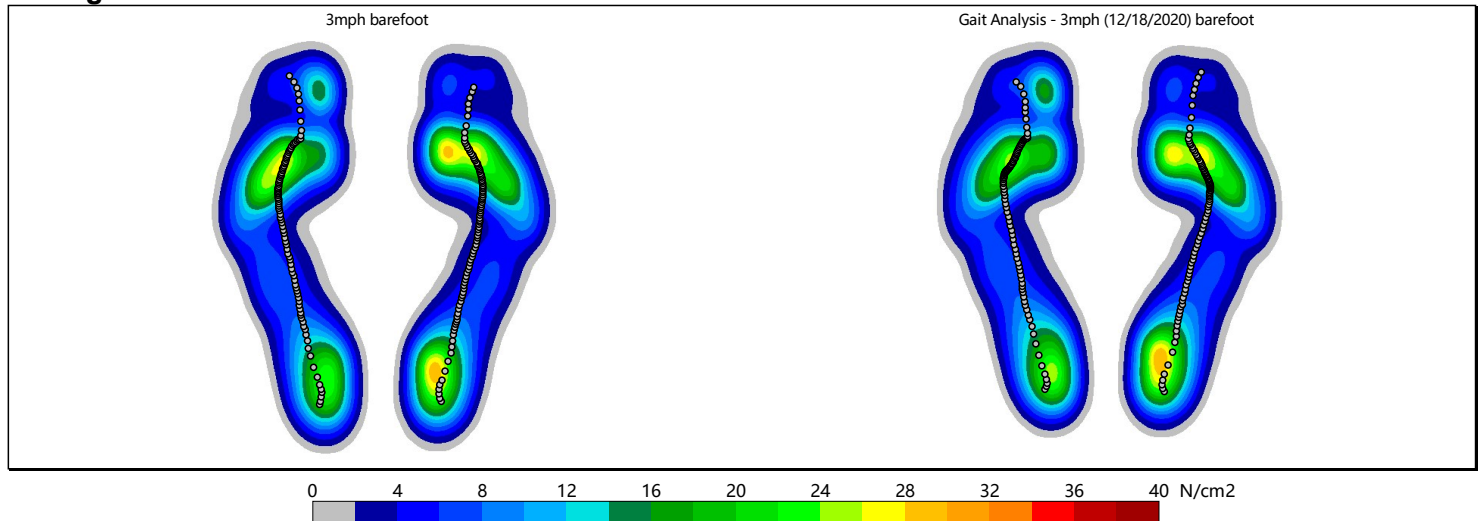
Sagittal

Posterior



Pressure Prints

Average





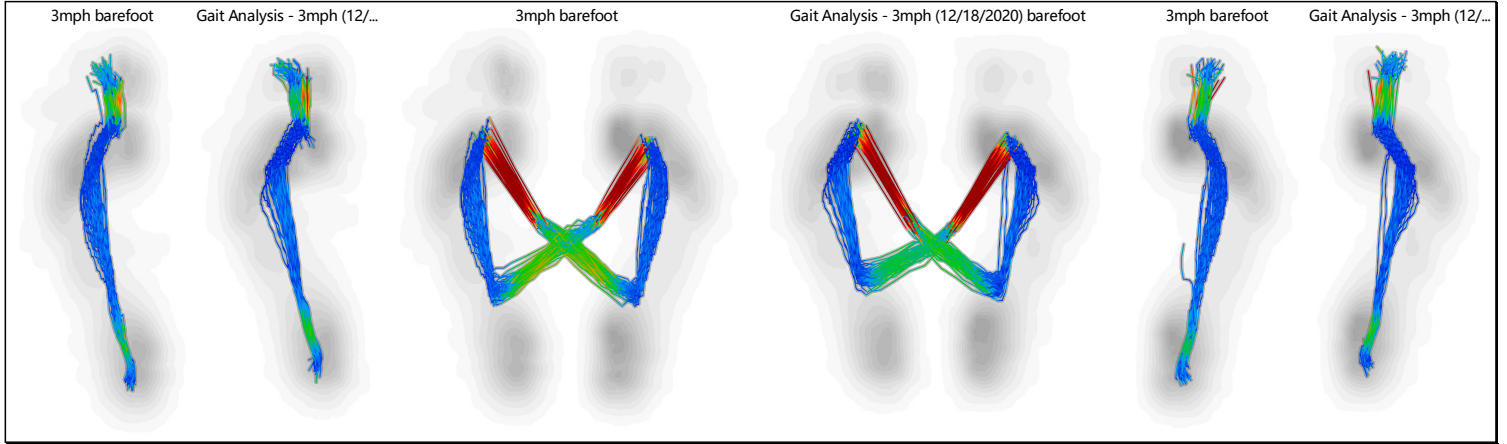
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Pressure Prints

COP Diagram



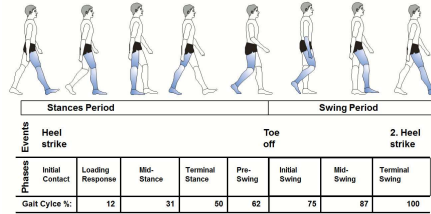
COP Parameters

Length of gait line, mm	Left	3mph barefoot	231±6	
		Gait Analysis - 3mph (12/18/2020) barefoot	217±14	
		Diff, %	-6.0	
	Right	3mph barefoot	222±20	
		Gait Analysis - 3mph (12/18/2020) barefoot	225±10	
		Diff, %	1.3	
Single support line, mm	Left	3mph barefoot	112±6	
		Gait Analysis - 3mph (12/18/2020) barefoot	104±7	
		Diff, %	-7.7	
	Right	3mph barefoot	110±6	
		Gait Analysis - 3mph (12/18/2020) barefoot	105±6	
		Diff, %	-4.1	
Ant/Post position, mm		3mph barefoot	141±3	
		Gait Analysis - 3mph (12/18/2020) barefoot	131±2	
Lateral symmetry, mm		3mph barefoot	-2±5	
		Gait Analysis - 3mph (12/18/2020) barefoot	0±3	



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Phase Parameters

Parameter	Side	Condition	Value	Visual
Stance phase, %	Left	3mph barefoot	60.7±0.9	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	59.1±1.5	[Bar]
		Diff, %	-2.7	[Bar]
Stance phase, %	Right	3mph barefoot	60.8±1.3	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	60.7±1.1	[Bar]
		Diff, %	-0.0	[Bar]
Load response, %	Left	3mph barefoot	10.6±1.2	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	10.1±0.9	[Bar]
		Diff, %	-4.1	[Bar]
Load response, %	Right	3mph barefoot	10.9±0.7	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	9.7±1.0	[Bar]
		Diff, %	-11.3	[Bar]
Single support, %	Left	3mph barefoot	39.2±1.4	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	39.2±1.2	[Bar]
		Diff, %	0.1	[Bar]
Single support, %	Right	3mph barefoot	39.3±1.0	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	40.9±1.4	[Bar]
		Diff, %	4.1	[Bar]
Pre-swing, %	Left	3mph barefoot	10.9±0.8	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	9.7±1.0	[Bar]
		Diff, %	-11.1	[Bar]
Pre-swing, %	Right	3mph barefoot	10.5±1.2	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	10.1±0.9	[Bar]
		Diff, %	-3.6	[Bar]
Swing phase, %	Left	3mph barefoot	39.3±0.9	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	40.9±1.5	[Bar]
		Diff, %	4.1	[Bar]
Swing phase, %	Right	3mph barefoot	39.2±1.3	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	39.3±1.1	[Bar]
		Diff, %	0.0	[Bar]
Double stance, %	Left	3mph barefoot	21.4±1.4	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	19.8±1.4	[Bar]
		Diff, %	-7.6	[Bar]

Spatial Parameters

Parameter	Side	Condition	Value	Visual
Foot rotation, deg	Left	3mph barefoot	7.3±2.1	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	7.2±1.8	[Bar]
		Diff, %	-1.4	[Bar]
Foot rotation, deg	Right	3mph barefoot	8.6±1.7	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	8.8±1.6	[Bar]
		Diff, %	2.3	[Bar]
Step length, cm	Left	3mph barefoot	67±1	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	67±1	[Bar]
		Diff, %	0.3	[Bar]
Step length, cm	Right	3mph barefoot	71±1	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	71±1	[Bar]
		Diff, %	-0.3	[Bar]
Stride length, cm	Left	3mph barefoot	138±1	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	138±2	[Bar]
		Diff, %	-0.0	[Bar]
Stride length, cm	Right	3mph barefoot	10±2	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	12±2	[Bar]
		Diff, %	14.9	[Bar]
Velocity, km/h	Left	3mph barefoot	4.8±0.1	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	4.8±0.1	[Bar]
		Diff, %	-0.3	[Bar]
Vertical stiffness, kN/m	Left	3mph barefoot		[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot		[Bar]
		Diff, %		[Bar]

Time Parameters

Parameter	Side	Condition	Value	Visual
Step time, ms	Left	3mph barefoot	517±11	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	523±10	[Bar]
		Diff, %	1.1	[Bar]
Step time, ms	Right	3mph barefoot	513±10	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	510±9	[Bar]
		Diff, %	-0.5	[Bar]
Stride time, ms	Left	3mph barefoot	1030±13	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	1033±12	[Bar]
		Diff, %	0.3	[Bar]
Cadence, step/min	Left	3mph barefoot	117±2	[Bar]
		Gait Analysis - 3mph (12/18/2020) barefoot	116±1	[Bar]
		Diff, %	-0.3	[Bar]

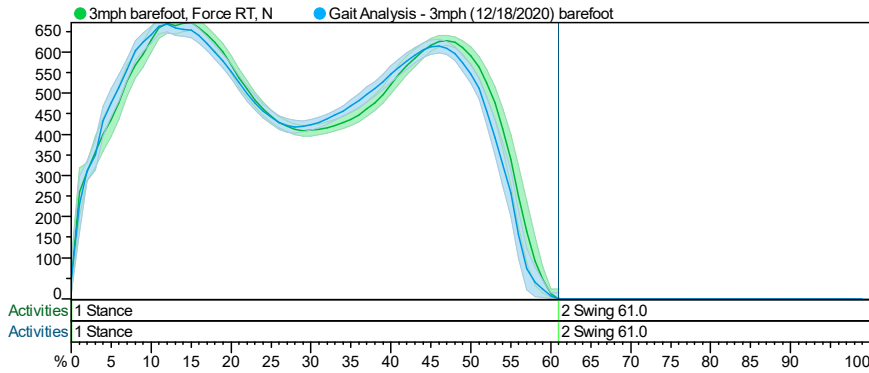
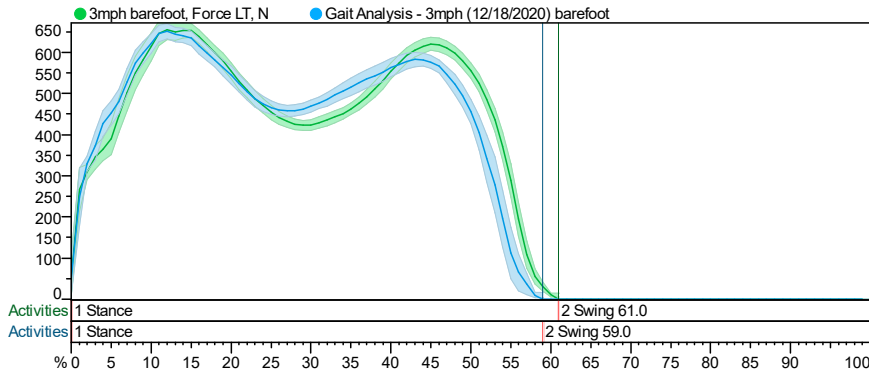


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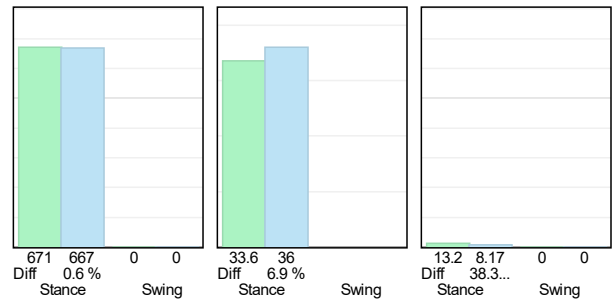
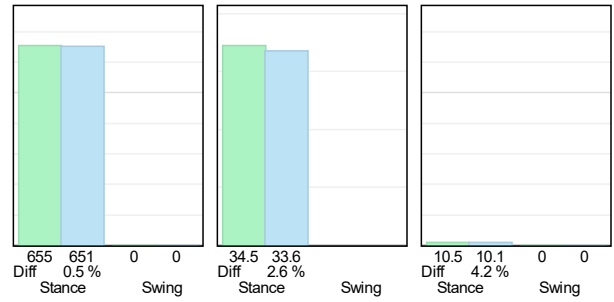
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Left-Right Curve Comparison



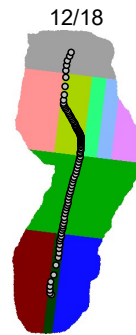
Maximum, Units Variability, % Minimum, Units



Zone Parameters

Left Side

Right Side



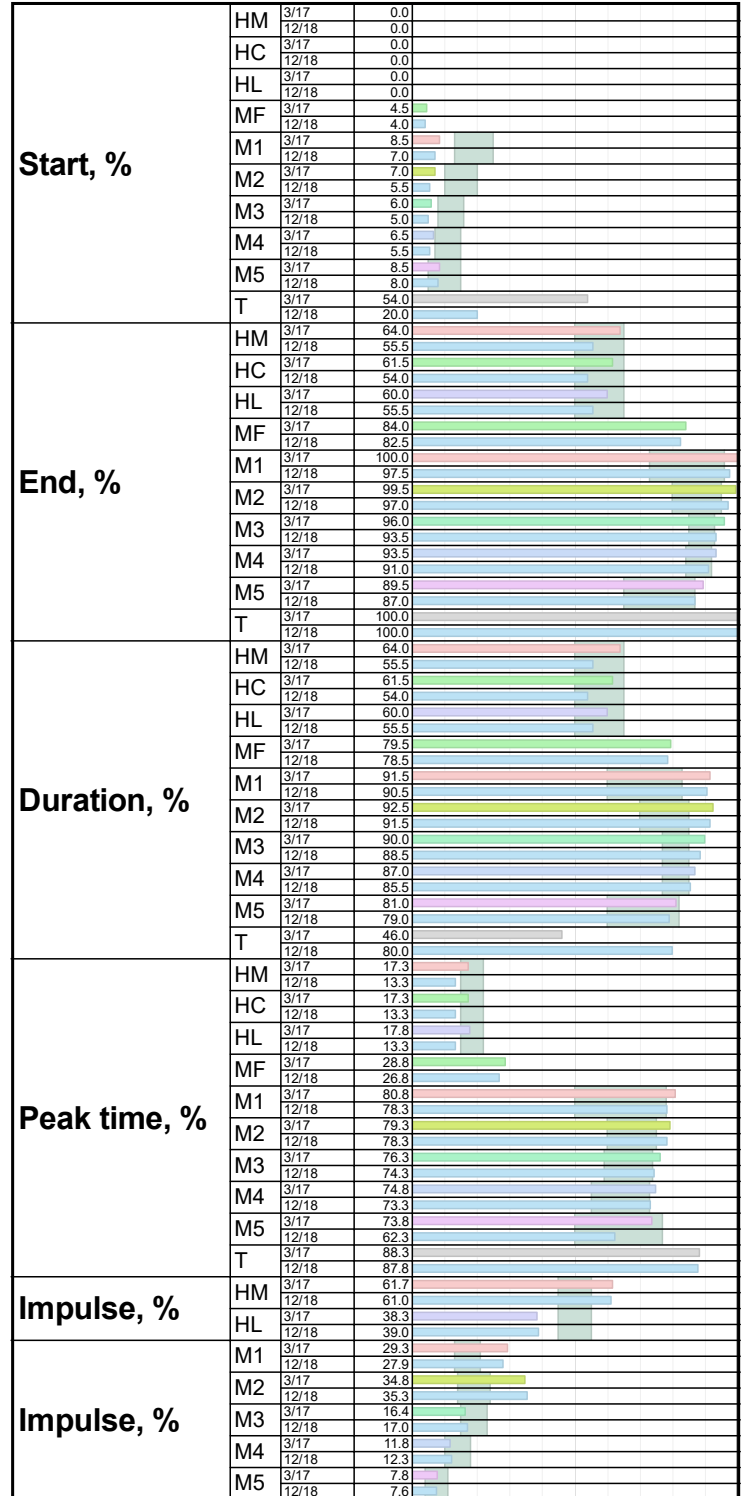
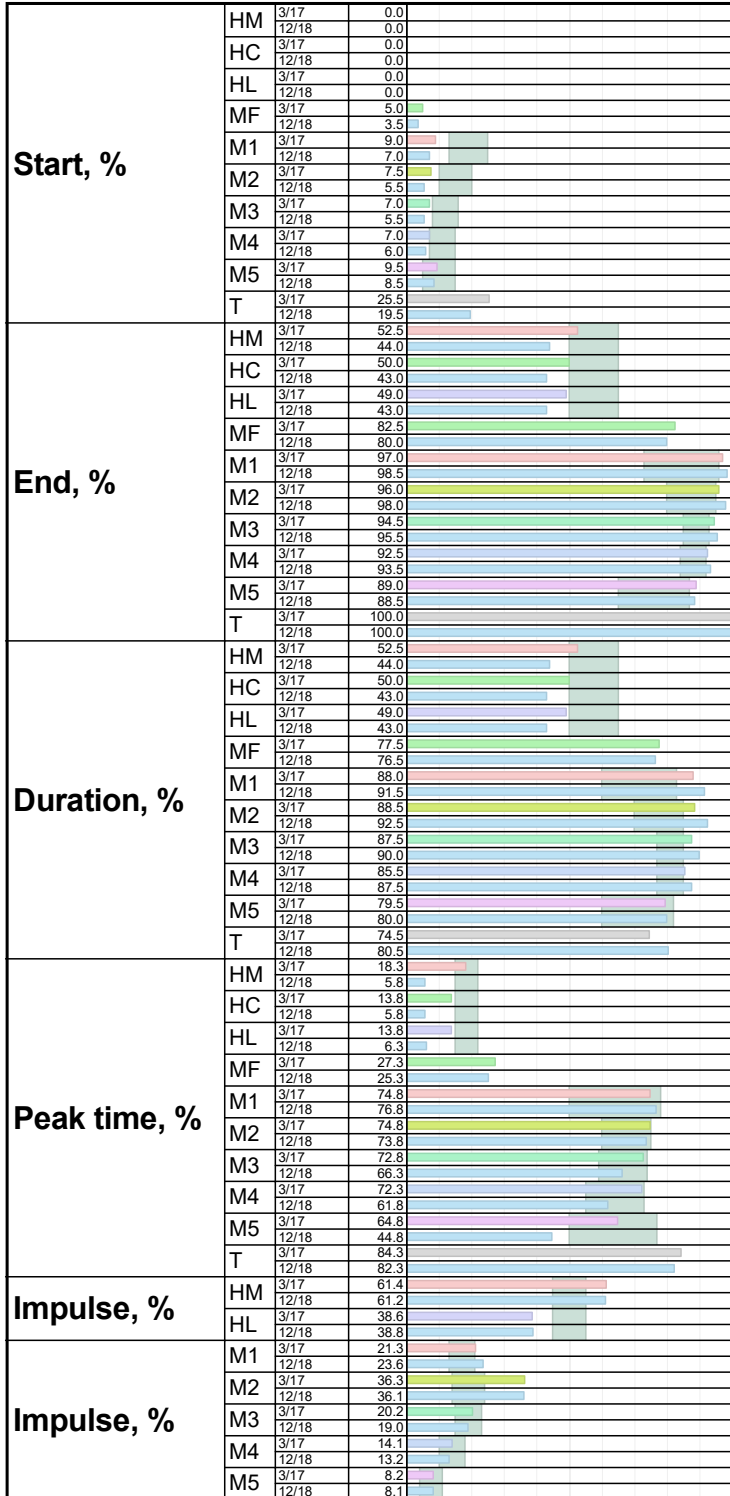
Peak force, N	Zone	Date	Value	
			3/17	12/18
HM	Heel Medial	3/17	176.5	179.8
		12/18	80.2	86.7
HC	Heel Central	3/17	112.7	109.4
		12/18	169.5	172.5
HL	Heel Lateral	3/17	111.0	132.8
		12/18	183.4	173.4
MF	Midfoot	3/17	106.6	89.9
		12/18	72.6	60.4
M1	Metatarsal 1	3/17	39.7	39.5
		12/18	131.2	131.9
M2	Metatarsal 2	3/17	176.5	172.5
		12/18	173.4	106.6
M3	Metatarsal 3	3/17	111.0	132.8
		12/18	183.4	173.4
M4	Metatarsal 4	3/17	72.6	60.4
		12/18	39.7	39.5
M5	Metatarsal 5	3/17	39.5	39.7
		12/18	131.2	131.9
T	Total	3/17	131.2	131.9
		12/18	131.9	131.2

Peak force, N	Zone	Date	Value	
			3/17	12/18
HM	Heel Medial	3/17	200.7	200.8
		12/18	88.4	95.5
HC	Heel Central	3/17	121.1	116.1
		12/18	144.3	143.2
HL	Heel Lateral	3/17	171.4	164.7
		12/18	197.6	200.0
MF	Midfoot	3/17	95.6	95.6
		12/18	68.4	66.0
M1	Metatarsal 1	3/17	43.3	37.7
		12/18	77.8	71.8
M2	Metatarsal 2	3/17	200.7	200.8
		12/18	88.4	95.5
M3	Metatarsal 3	3/17	121.1	116.1
		12/18	144.3	143.2
M4	Metatarsal 4	3/17	171.4	164.7
		12/18	197.6	200.0
M5	Metatarsal 5	3/17	43.3	37.7
		12/18	77.8	71.8
T	Total	3/17	200.7	200.8
		12/18	88.4	95.5



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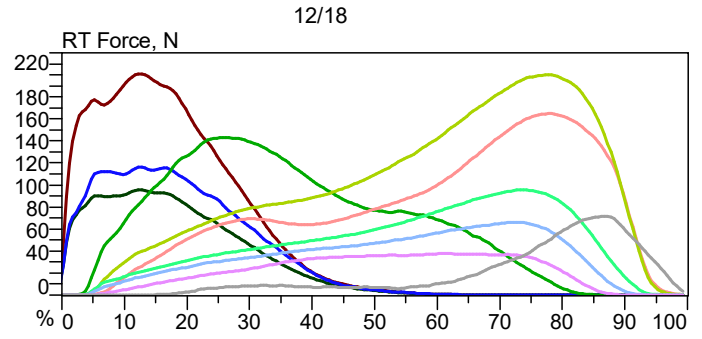
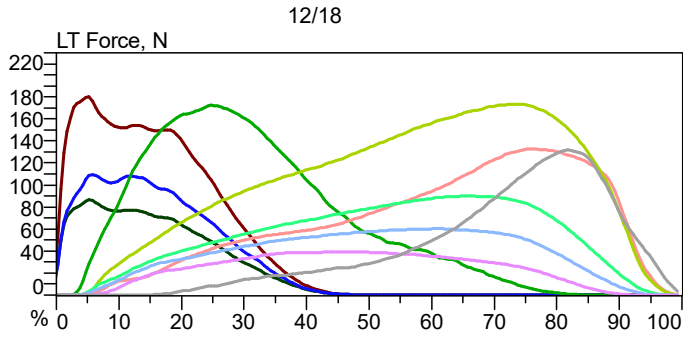
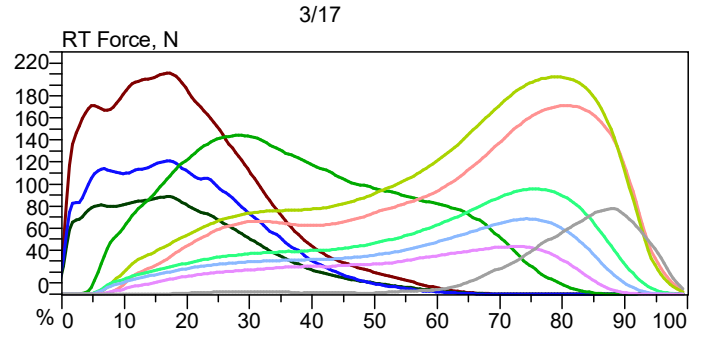
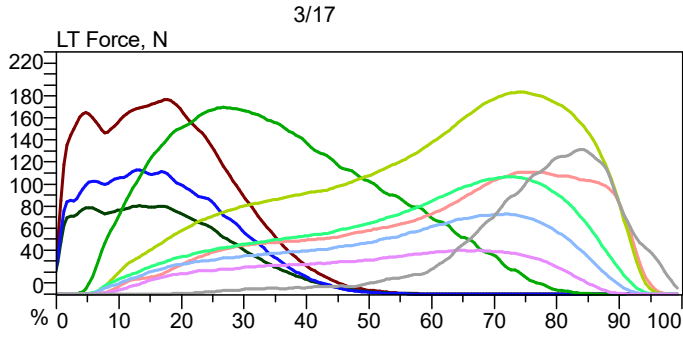
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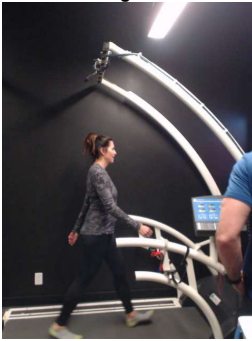
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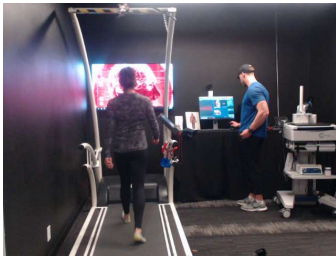
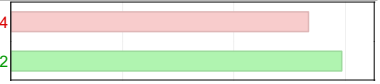
Sagittal



Posterior

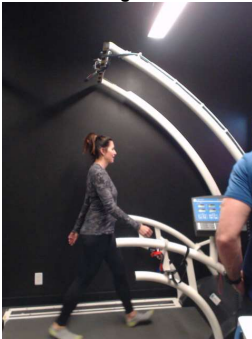
Mean Force, N

Force LT	267.74
Force RT	297.02



Marker, Statistics

Sagittal



Posterior

