

**Patient**

Project  
Last Name  
First Name  
Sex

Project 1  
  
Female

**Record**

Name  
Date Measured  
Number of peri...

Gait Analysis - 1/4/2021 (...  
1/4/2021 10:03  
57



Kineticode - Locomotion Gait and Running -

Marker, 0.00 s

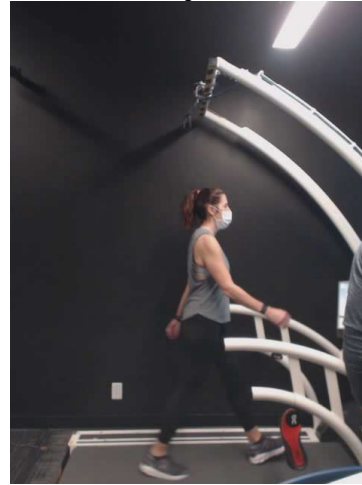
Computer-aided gait analysis makes possible the quantification of weight-bearing events by using state-of-the-art pressure technology and examining the ground force reaction to an area over time which it occurs as a person is moving. In turn, this data that is captured can be turned into meaningful information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

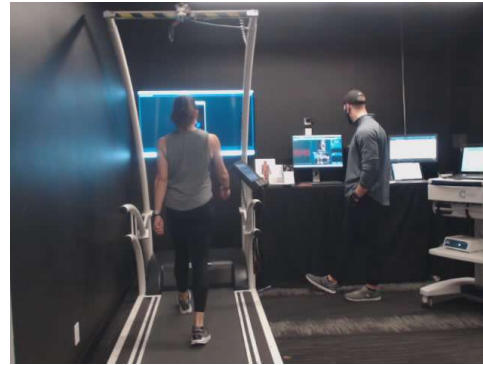
\*Crawford, S (2012). The Next Generation: Noraxon's FDM-Treadmill System for Stance and Gait Analysis. Profiles in Excellence Nov/Dec 2012. 180-182.

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

Sagittal



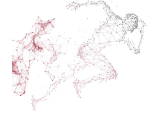
Posterior





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**Kineticode - Locomotion Gait and Running -**

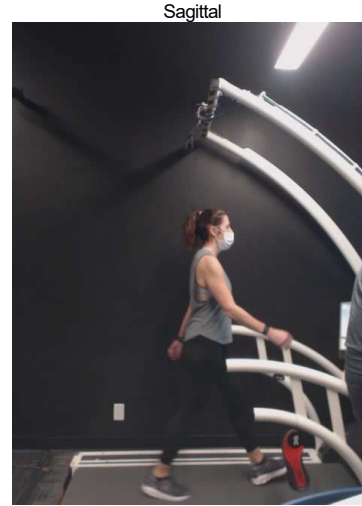
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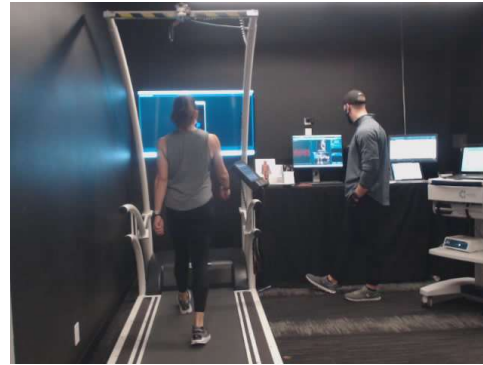
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**Marker, Statistics**



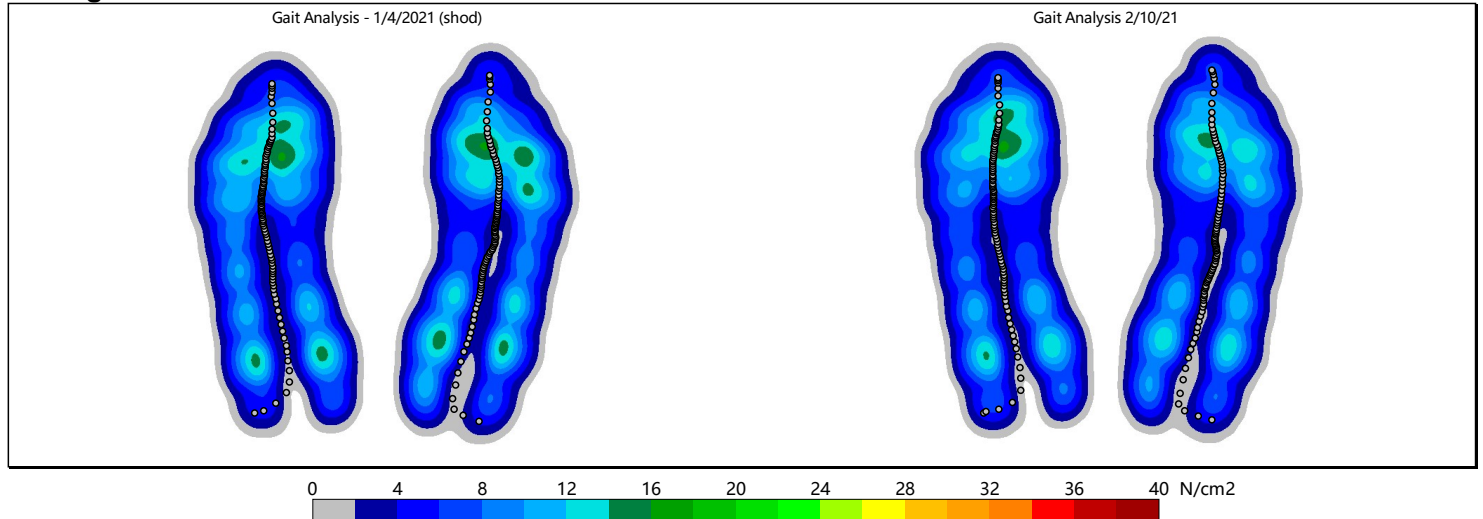
Sagittal

Posterior



## Pressure Prints

### Average





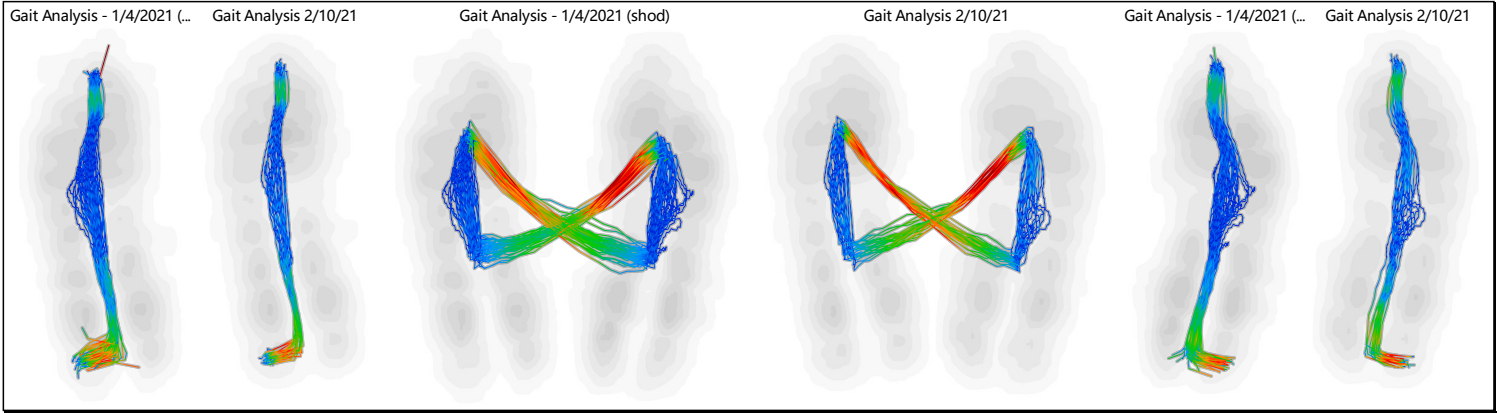
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## Pressure Prints

## COP Diagram



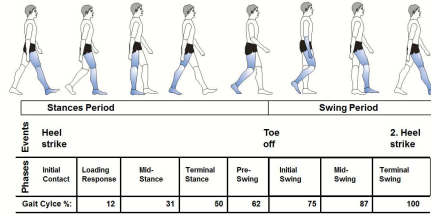
## COP Parameters

<b>Length of gait line, mm</b>	Left	Gait Analysis - 1/4/2021 (shod)	250±7	
		Gait Analysis 2/10/21	254±3	
		Diff, %	1.8	
	Right	Gait Analysis - 1/4/2021 (shod)	262±7	
		Gait Analysis 2/10/21	265±4	
		Diff, %	1.0	
<b>Single support line, mm</b>	Left	Gait Analysis - 1/4/2021 (shod)	95±8	
		Gait Analysis 2/10/21	106±6	
		Diff, %	12.2	
	Right	Gait Analysis - 1/4/2021 (shod)	96±7	
		Gait Analysis 2/10/21	106±7	
		Diff, %	10.6	
<b>Ant/Post position, mm</b>		Gait Analysis - 1/4/2021 (shod)	157±3	
		Gait Analysis 2/10/21	156±3	
<b>Lateral symmetry, mm</b>		Gait Analysis - 1/4/2021 (shod)	-1±5	
		Gait Analysis 2/10/21	-1±4	



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## Phase Parameters

Parameter	Side	Analysis	Value	Diff. %
Stance phase, %	Left	Gait Analysis - 1/4/2021 (shod)	60.8±1.1	
		Gait Analysis 2/10/21	61.5±0.6	1.1
	Right	Gait Analysis - 1/4/2021 (shod)	62.7±1.2	
		Gait Analysis 2/10/21	62.9±0.7	0.3
Load response, %	Left	Gait Analysis - 1/4/2021 (shod)	11.8±0.8	
		Gait Analysis 2/10/21	12.3±0.5	4.2
	Right	Gait Analysis - 1/4/2021 (shod)	11.7±0.6	
		Gait Analysis 2/10/21	12.1±0.6	3.1
Single support, %	Left	Gait Analysis - 1/4/2021 (shod)	37.3±1.2	
		Gait Analysis 2/10/21	37.1±0.8	-0.5
	Right	Gait Analysis - 1/4/2021 (shod)	39.2±1.1	
		Gait Analysis 2/10/21	38.5±0.8	-1.7
Pre-swing, %	Left	Gait Analysis - 1/4/2021 (shod)	11.7±0.6	
		Gait Analysis 2/10/21	12.1±0.7	3.1
	Right	Gait Analysis - 1/4/2021 (shod)	11.8±0.9	
		Gait Analysis 2/10/21	12.3±0.5	4.1
Swing phase, %	Left	Gait Analysis - 1/4/2021 (shod)	39.2±1.1	
		Gait Analysis 2/10/21	38.5±0.6	-1.7
	Right	Gait Analysis - 1/4/2021 (shod)	37.3±1.2	
		Gait Analysis 2/10/21	37.1±0.7	-0.4
Double stance, %		Gait Analysis - 1/4/2021 (shod)	23.6±1.0	
		Gait Analysis 2/10/21	24.4±0.8	3.6

## Spatial Parameters

Parameter	Side	Analysis	Value	Diff. %
Foot rotation, deg	Left	Gait Analysis - 1/4/2021 (shod)	6.3±1.6	
	Right	Gait Analysis - 1/4/2021 (shod)	8.9±2.0	
Step length, cm	Left	Gait Analysis - 1/4/2021 (shod)	67±2	
		Gait Analysis 2/10/21	69±1	2.5
	Right	Gait Analysis - 1/4/2021 (shod)	71±2	
		Gait Analysis 2/10/21	73±1	2.5
Stride length, cm		Gait Analysis - 1/4/2021 (shod)	139±3	
		Gait Analysis 2/10/21	142±2	2.5
Step width, cm		Gait Analysis - 1/4/2021 (shod)	13±3	
		Gait Analysis 2/10/21	12±2	-3.8
Velocity, km/h		Gait Analysis - 1/4/2021 (shod)	4.8±0.1	
		Gait Analysis 2/10/21	4.8±0.1	-0.1
Vertical stiffness, kN/m		Gait Analysis - 1/4/2021 (shod)		
		Gait Analysis 2/10/21		

## Time Parameters

Parameter	Side	Analysis	Value	Diff. %
Step time, ms	Left	Gait Analysis - 1/4/2021 (shod)	529±15	
		Gait Analysis 2/10/21	539±11	1.9
	Right	Gait Analysis - 1/4/2021 (shod)	510±13	
		Gait Analysis 2/10/21	526±8	3.2
Stride time, ms		Gait Analysis - 1/4/2021 (shod)	1039±14	
		Gait Analysis 2/10/21	1065±12	2.5
Cadence, step/min		Gait Analysis - 1/4/2021 (shod)	116±2	
		Gait Analysis 2/10/21	113±1	-2.5

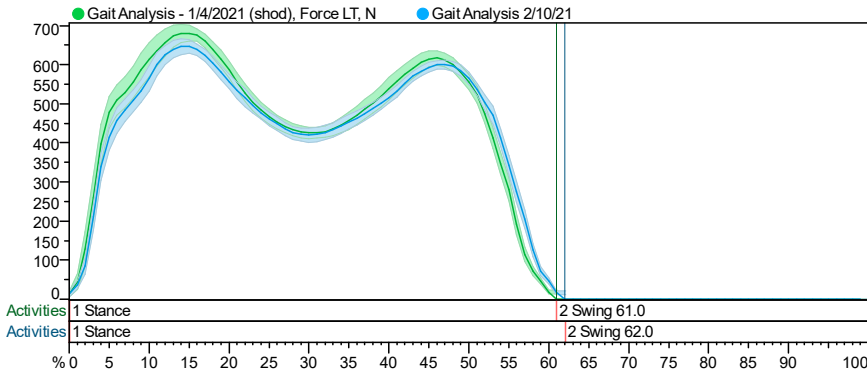


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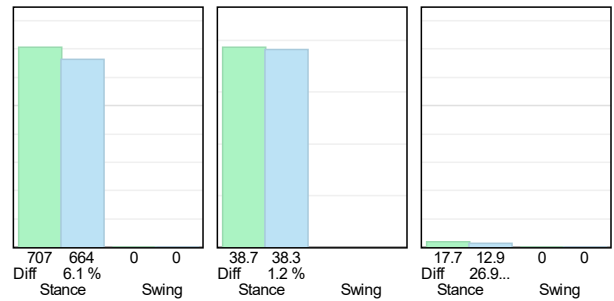
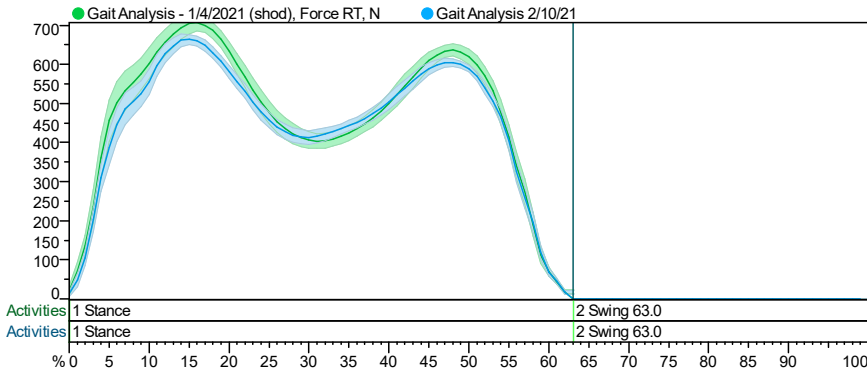
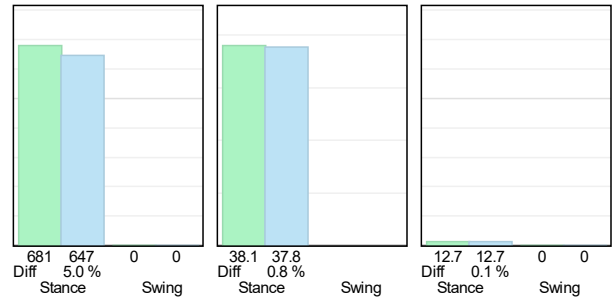
### Left-Right Curve Comparison



### Maximum, Units

### Variability, %

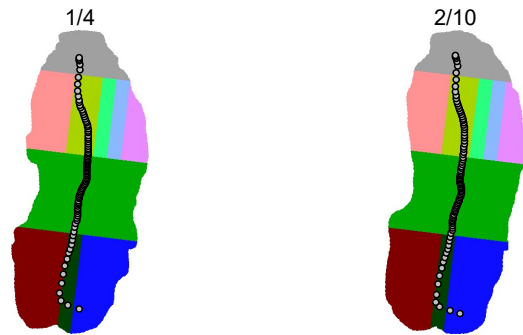
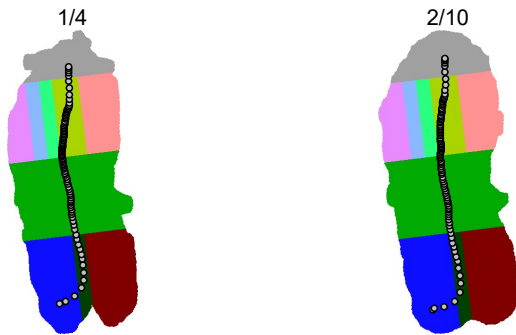
### Minimum, Units



## Zone Parameters

### Left Side

### Right Side



Peak force, N	Zone	Time	Value	
			1/4	2/10
HM	Heel Medial	1/4	200.6	180.5
		2/10	14.7	14.8
HC	Heel Central	1/4	171.4	174.1
		2/10	322.7	305.9
HL	Heel Lateral	1/4	147.7	148.4
		2/10	187.1	193.5
MF	Metatarsal Forefoot	1/4	86.2	78.9
		2/10	75.6	70.9
M1	Metatarsal 1	1/4	55.5	53.2
		2/10	95.4	107.5
M2	Metatarsal 2	1/4	86.2	78.9
		2/10	75.6	70.9
M3	Metatarsal 3	1/4	55.5	53.2
		2/10	95.4	107.5
M4	Metatarsal 4	1/4	86.2	78.9
		2/10	75.6	70.9
M5	Metatarsal 5	1/4	55.5	53.2
		2/10	95.4	107.5
T	Total	1/4	95.4	107.5
		2/10	107.5	107.5

Peak force, N	Zone	Time	Value	
			1/4	2/10
HM	Heel Medial	1/4	206.0	189.8
		2/10	13.5	13.0
HC	Heel Central	1/4	148.8	154.7
		2/10	342.8	311.6
HL	Heel Lateral	1/4	160.6	152.8
		2/10	188.7	184.3
MF	Metatarsal Forefoot	1/4	92.7	86.1
		2/10	83.8	75.3
M1	Metatarsal 1	1/4	55.5	54.3
		2/10	74.3	82.6
M2	Metatarsal 2	1/4	86.2	78.9
		2/10	75.6	70.9
M3	Metatarsal 3	1/4	55.5	53.2
		2/10	95.4	107.5
M4	Metatarsal 4	1/4	86.2	78.9
		2/10	75.6	70.9
M5	Metatarsal 5	1/4	55.5	53.2
		2/10	95.4	107.5
T	Total	1/4	74.3	82.6
		2/10	82.6	82.6



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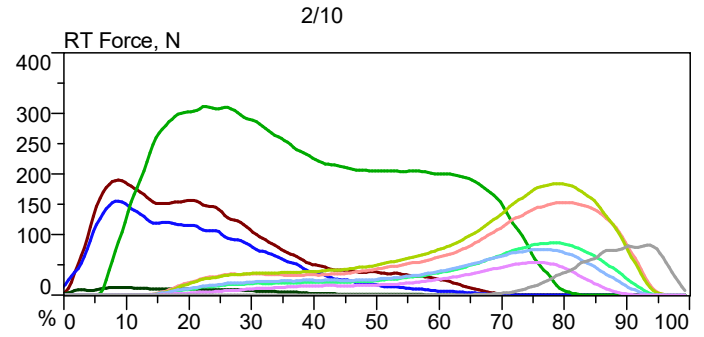
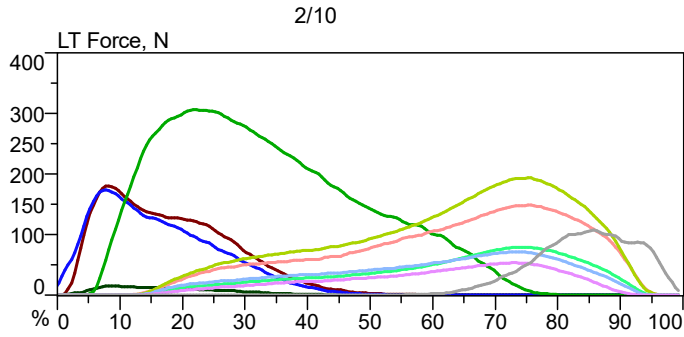
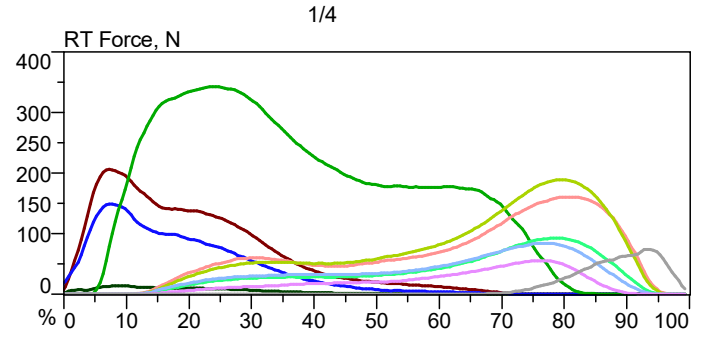
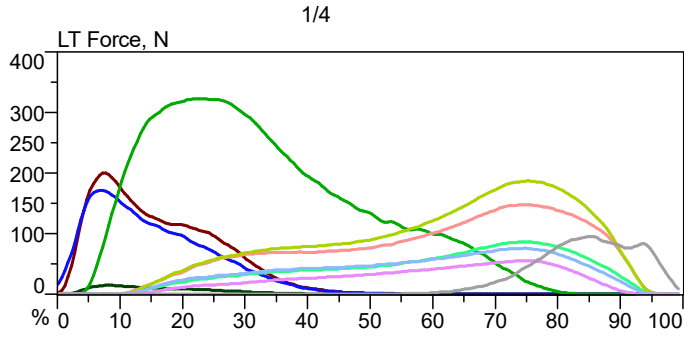
Metric	Subject	Time	Value	Bar	
				1/4	2/10
Start, %	HM	1/4	1.0		
	HM	2/10	2.0		
	HC	1/4	3.0		
	HC	2/10	2.5		
	HL	1/4	0.0		
	HL	2/10	0.0		
	MF	1/4	4.5		
	MF	2/10	6.0		
	M1	1/4	11.5		
	M1	2/10	13.5		
	M2	1/4	12.0		
	M2	2/10	14.0		
	M3	1/4	13.0		
M3	2/10	15.5			
M4	1/4	13.0			
M4	2/10	14.5			
M5	1/4	15.0			
M5	2/10	16.5			
T	1/4	60.5			
T	2/10	60.5			
End, %	HM	1/4	48.0		
	HM	2/10	51.0		
	HC	1/4	34.0		
	HC	2/10	37.5		
	HL	1/4	47.0		
	HL	2/10	47.5		
	MF	1/4	82.0		
	MF	2/10	78.5		
	M1	1/4	95.5		
	M1	2/10	95.5		
	M2	1/4	95.5		
	M2	2/10	95.5		
	M3	1/4	95.5		
M3	2/10	94.5			
M4	1/4	94.0			
M4	2/10	94.0			
M5	1/4	92.0			
M5	2/10	92.0			
T	1/4	100.0			
T	2/10	100.0			
Duration, %	HM	1/4	47.0		
	HM	2/10	49.0		
	HC	1/4	31.0		
	HC	2/10	35.0		
	HL	1/4	47.0		
	HL	2/10	47.5		
	MF	1/4	77.5		
	MF	2/10	72.5		
	M1	1/4	84.0		
	M1	2/10	82.0		
	M2	1/4	83.5		
	M2	2/10	81.5		
	M3	1/4	82.0		
M3	2/10	79.0			
M4	1/4	81.0			
M4	2/10	79.5			
M5	1/4	77.0			
M5	2/10	75.5			
T	1/4	39.5			
T	2/10	39.5			
Peak time, %	HM	1/4	8.3		
	HM	2/10	8.8		
	HC	1/4	8.8		
	HC	2/10	9.3		
	HL	1/4	7.8		
	HL	2/10	8.3		
	MF	1/4	23.3		
	MF	2/10	22.3		
	M1	1/4	75.3		
	M1	2/10	76.3		
	M2	1/4	75.8		
	M2	2/10	75.8		
	M3	1/4	75.3		
M3	2/10	74.3			
M4	1/4	75.3			
M4	2/10	73.8			
M5	1/4	75.3			
M5	2/10	73.3			
T	1/4	85.8			
T	2/10	86.3			
Impulse, %	HM	1/4	53.4		
	HM	2/10	52.4		
	HL	1/4	46.6		
HL	2/10	47.6			
Impulse, %	M1	1/4	27.8		
	M1	2/10	28.4		
	M2	1/4	32.7		
	M2	2/10	35.2		
	M3	1/4	15.4		
	M3	2/10	13.6		
M4	1/4	14.6			
M4	2/10	13.6			
M5	1/4	9.5			
M5	2/10	9.2			

Metric	Subject	Time	Value	Bar	
				1/4	2/10
Start, %	HM	1/4	0.0		
	HM	2/10	0.5		
	HC	1/4	0.5		
	HC	2/10	1.0		
	HL	1/4	0.0		
	HL	2/10	0.0		
	MF	1/4	5.5		
	MF	2/10	6.5		
	M1	1/4	13.0		
	M1	2/10	15.0		
	M2	1/4	14.0		
	M2	2/10	15.5		
	M3	1/4	14.5		
M3	2/10	16.5			
M4	1/4	14.0			
M4	2/10	15.5			
M5	1/4	16.5			
M5	2/10	18.5			
T	1/4	71.0			
T	2/10	69.5			
End, %	HM	1/4	70.5		
	HM	2/10	70.0		
	HC	1/4	41.5		
	HC	2/10	43.0		
	HL	1/4	66.0		
	HL	2/10	67.5		
	MF	1/4	83.5		
	MF	2/10	82.0		
	M1	1/4	96.0		
	M1	2/10	96.0		
	M2	1/4	96.0		
	M2	2/10	95.5		
	M3	1/4	94.5		
M3	2/10	94.5			
M4	1/4	93.5			
M4	2/10	93.5			
M5	1/4	90.0			
M5	2/10	90.0			
T	1/4	100.0			
T	2/10	100.0			
Duration, %	HM	1/4	70.5		
	HM	2/10	69.5		
	HC	1/4	41.0		
	HC	2/10	42.0		
	HL	1/4	66.0		
	HL	2/10	67.5		
	MF	1/4	78.0		
	MF	2/10	75.5		
	M1	1/4	83.0		
	M1	2/10	81.0		
	M2	1/4	82.0		
	M2	2/10	80.0		
	M3	1/4	80.0		
M3	2/10	78.0			
M4	1/4	79.5			
M4	2/10	78.0			
M5	1/4	73.5			
M5	2/10	71.5			
T	1/4	29.0			
T	2/10	30.5			
Peak time, %	HM	1/4	7.8		
	HM	2/10	9.3		
	HC	1/4	10.3		
	HC	2/10	9.3		
	HL	1/4	8.3		
	HL	2/10	9.3		
Impulse, %	MF	1/4	24.8		
	MF	2/10	23.3		
	M1	1/4	81.8		
	M1	2/10	80.3		
	M2	1/4	80.3		
	M2	2/10	79.8		
Impulse, %	M3	1/4	79.3		
	M3	2/10	79.3		
	M4	1/4	76.8		
	M4	2/10	76.3		
	M5	1/4	76.8		
	M5	2/10	75.8		
T	1/4	93.8			
T	2/10	94.3			



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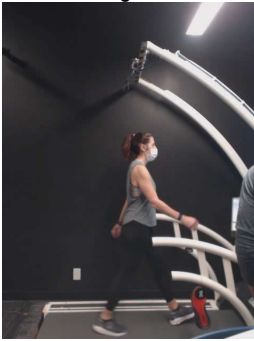
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Marker, 0.00 s

Sagittal



Posterior

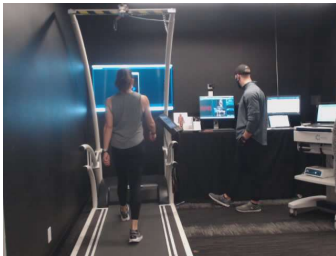
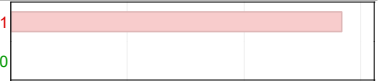
### Mean Force, N

Force LT

283.91

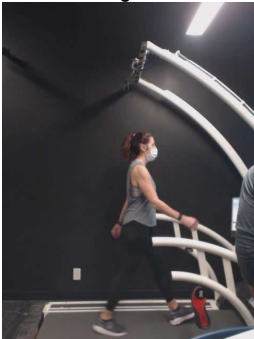
Force RT

0.00



Marker, Statistics

Sagittal



Posterior

