

Subject Statistics

Gender	Overall Avg
Height (cm)	173.8
Mass (kg)	157

	Right	Left	Diff
Femur Length (cm)	0.440	0.439	0.001
Shank Length (cm)	0.409	0.398	0.010
Leg Length (cm)	0.849	0.837	0.011
Gait Statistics			
Step Length (m)	0.614	0.589	0.025
Stride Length (m)	1.461	1.512	-0.050
Gait Cycle Time (s)	1.104	1.104	0.000
Speed (m/s)	1.324	1.370	-0.046
Cadnce (steps/min)	32.3	33.9	-1.554
Single Limb Support(%)	38.8	37.6	1.191
Double Support (%)	25.3	26.1	-0.791
Stance Phase (%)	64.1	63.7	0.400
Swing Phase (%)	35.9	36.3	-0.400

Introduction and Key to Graphics Report

Graphical data is color coded to the 8 phases of gait as presented in <u>Gait Analysis</u> by J. Perry and J. Burnfield 2nd Edition

IC - Initial Contact, LR - Loading Response, MSt - MidStance, TSt - Terminal Stance, PSw - PreSwing, ISw - Initial Swing, MSw - MidSwing, TSw - Terminal Swing

Normative data regarding phases are from Perry et. al.

Normative data were collected at Univ of Wisconsin LaCrosse by Kernozek & Willson and are available from www.innsport.com

Sample Report Structure

Analyses progress from foot and ankle through knee and hip

Kinematic and kinetic data presented in each plane of motion and are computed consistent with definitions contained in Perry et. al.

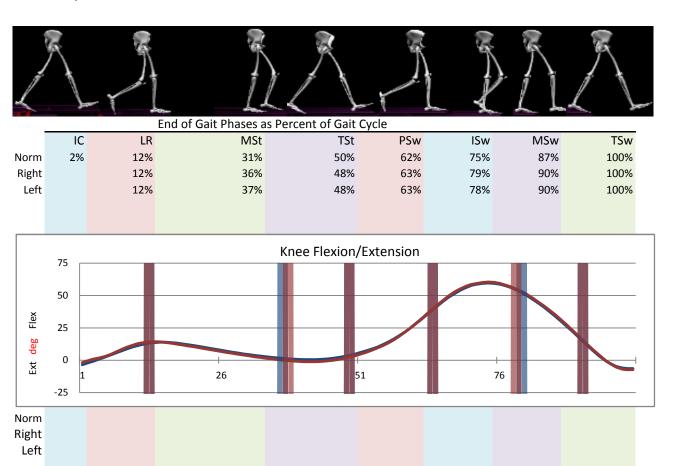


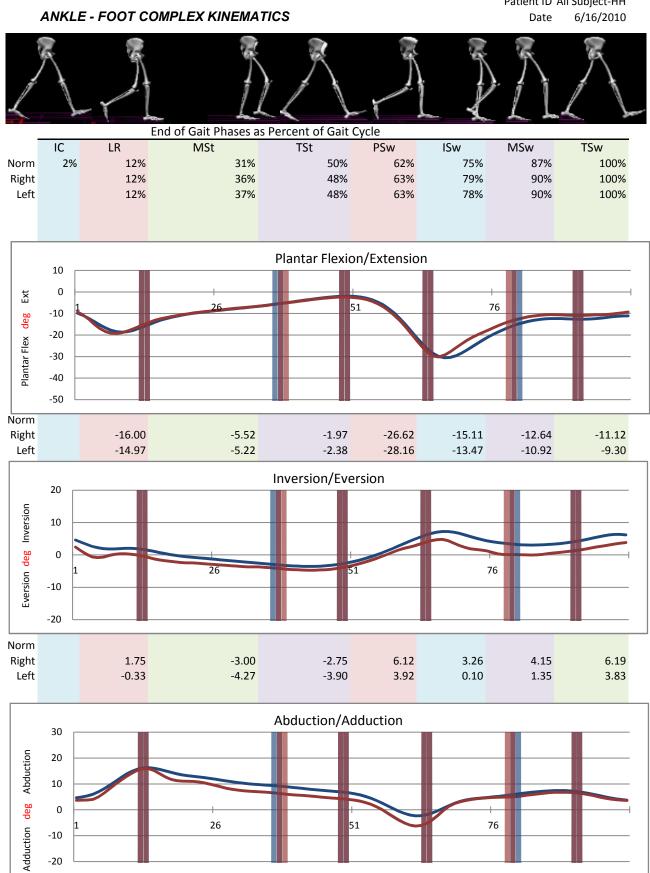
Vertical Bars indcate subject specific phases as defined by Perry et. al.

Data below the graph are graph values at each of the gait phases.

EMG data are normalized RMS with a 100ms window. Normalization in the report is to maximum RMS during the trial.

Sample Data





-20

16.17

15.92

9.20

6.19

6.78

4.21

-1.93

-5.21

6.01

4.95

7.05

6.56

3.72

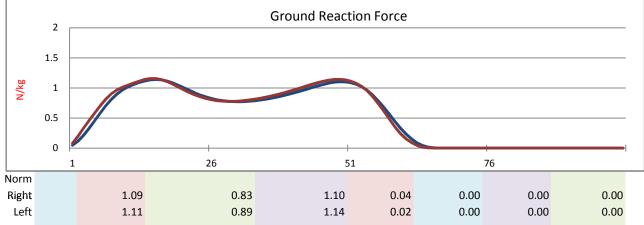
3.59

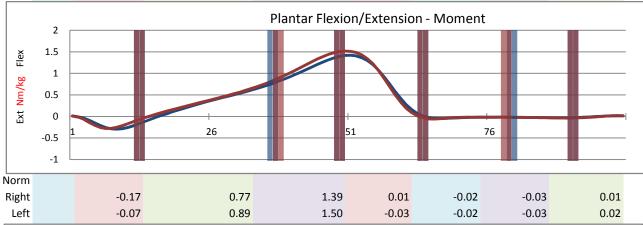
Norm Right

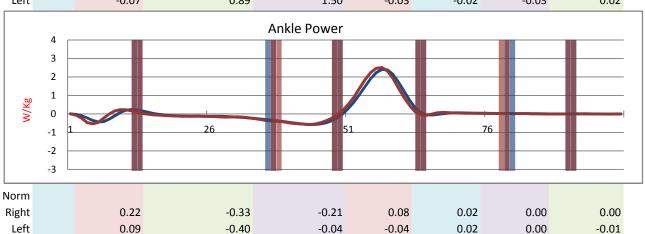
Left



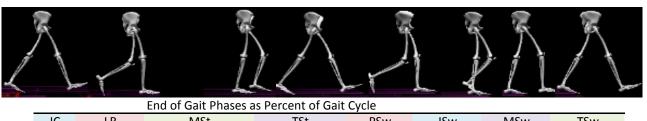
	End of Gait Phases as Percent of Gait Cycle									
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw		
Norm	2%	12%	31%	50%	62%	75%	87%	100%		
Right		12%	36%	48%	63%	79%	90%	100%		
Left		12%	37%	48%	63%	78%	90%	100%		



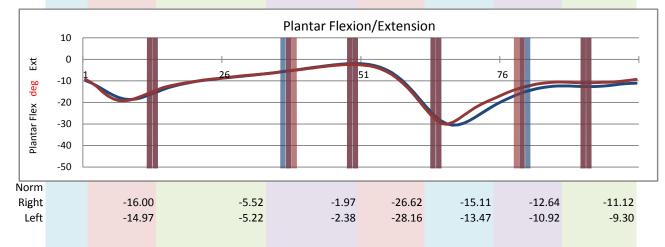


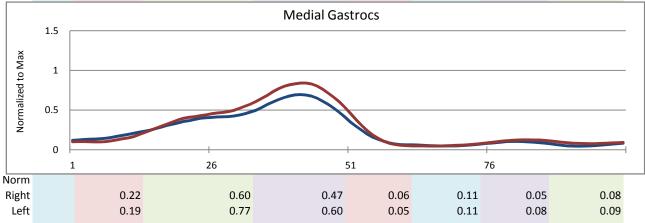


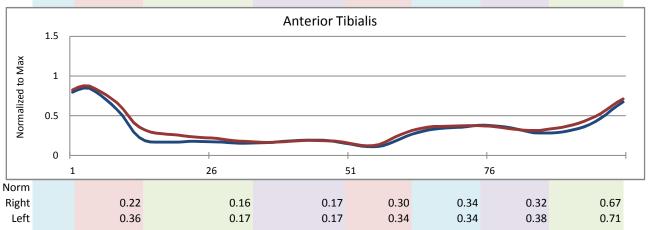
ANKLE - FOOT COMPLEX EMG RMS



	End of Gale Frages as refeelit of Gale eyele									
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw		
Norm	2%	12%	31%	50%	62%	75%	87%	100%		
Right		12%	36%	48%	63%	79%	90%	100%		
Left		12%	37%	48%	63%	78%	90%	100%		







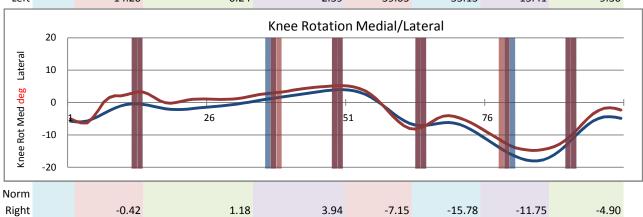
KNEE KINEMATICS

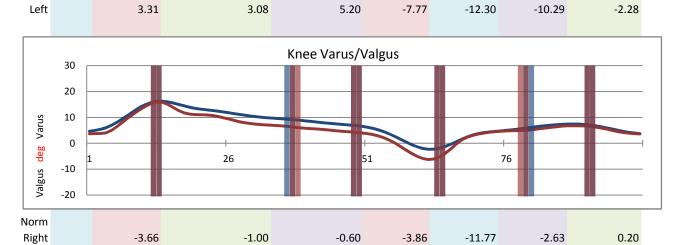


_	Ţ	- [L		-1	L	LL	\angle \bot	
			End of Gait Phases a	s Percent of Gait	Cycle				
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw	
Norm	2%	12%	31%	50%	62%	75%	87%	100%	
Right		12%	36%	48%	63%	79%	90%	100%	
Left		12%	37%	48%	63%	78%	90%	100%	
				Knee Flexion	n/Extension				
	100								
Ĭ.	80							_	
	60			_					
deg	40								
Flex									
knee F	20								
Ř	0								

	-20		26		51		76	
Norm								
Right		13.33	1.51	3.77	39.07	52.24	14.76	-6.37
Left		14.20	-0.24	2.39	39.63	55.13	15.41	-9.30

26





0.11

0.32

KNEE KINETICS

Right

Left

-0.78

-0.42

-0.09

-0.17

0.30

0.45

-0.41

-0.34

-0.06

-0.07

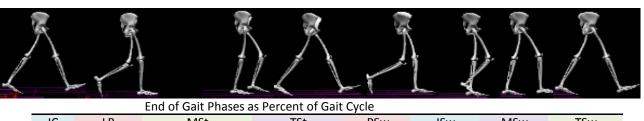
-0.71

-0.59

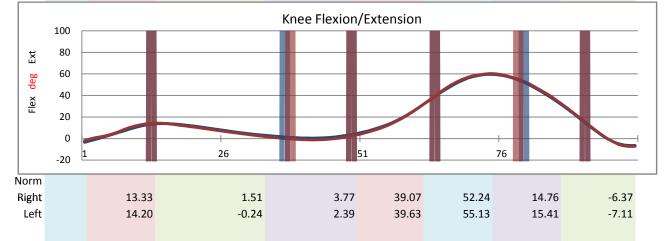


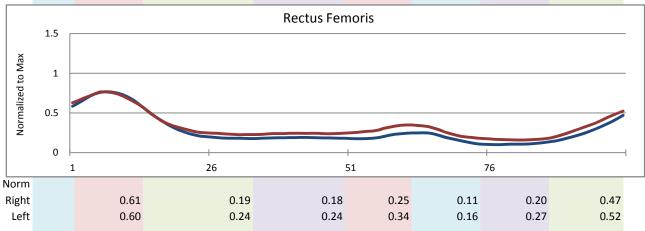
2			\hat{D}_{ϵ}				1	
-	ıc		of Gait Phases as Perc			IC	NAC	TC···
Norm Right Left	IC 2%	LR 12% 12% 12%	MSt 31% 36% 37%	TSt 50% 48% 48%	PSw 62% 63% 63%	1Sw 75% 79% 78%	MSw 87% 90% 90%	TSW 100% 100% 100%
N/kg	2 1.5 1 0.5		Gro	ound Reaction	n Force			
Norm	0 1		26	51		76		<u> </u>
Right Left		1.09 1.11	0.83 0.89	1.10 1.14	0.04 0.02	0.00 0.00	0.00 0.00	0.00 0.00
Ext Nm/kg Flex	2 1.5 1 0.5 0 -0.5		Kno 26	ee Flexion/Ext	tension - N	loment	5	
Norm Right Left		0.63 0.63	-0.17 -0.27	-0.22 -0.29	0.08 0.06	-0.02 -0.02	-0.11 -0.09	-0.20 -0.30
W/Kg	4 3 2 1 0 -1 -2 -3		Kne Za	ee Power		76		
Norm	-3 -	_					-	-

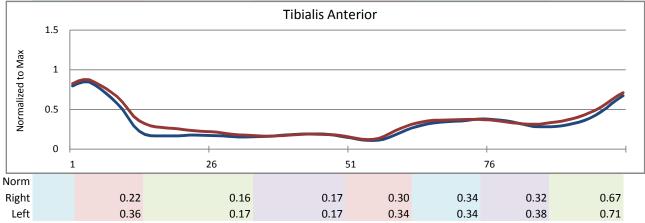
KNEE EMG RMS



	End of dalt Fridses as Fercent of dalt cycle								
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw	
Norm	2%	12%	31%	50%	62%	75%	87%	100%	
Right		12%	36%	48%	63%	79%	90%	100%	
Left		12%	37%	48%	63%	78%	90%	100%	







HIP KINEMATICS

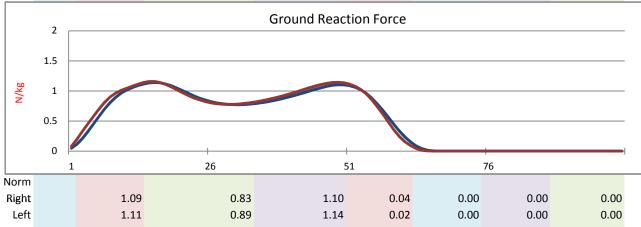


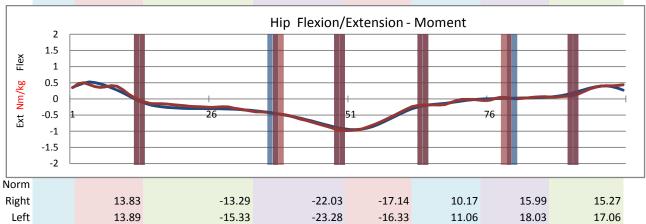
1	A	-	\hat{D} .		1		1	
			d of Gait Phases as Per					
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw
Norm	2%		31%	50%	62%	75%	87%	100%
Right		12%	36%	48%	63%	79%	90%	100%
Left		12%	37%	48%	63%	78%	90%	100%
			113	in Florian /Fut	anaian			
	50		П	p Flexion/Ext	ension			_
Ext	30							
	30							
deg	10							
Flex	-10		20	-		70		
"		1	26	51		76		
	-30							
	-50							
Norm								
Right		13.33	-13.65	-22.20	-16.75	10.30	15.99	15.27
Left		13.62	-15.51	-23.36	-16.12	11.15	18.03	17.07
	20 [Hi	p Rotation Me	edial/Later	al		
-								
ater	10							
] B								
Medial deg Lateral	0			1		+		
ledi	1	1	26	51		76		
2	-10							
	20							
	-20 [[]							
Norm								
Right		5.69	4.96	3.82	4.59	12.24	4.35	-4.76
Left		3.83	3.69	2.71	5.14	10.38	4.80	-6.13
			u	p Abduction/	Adduction			
	30		П	p Abduction/	-audction			
ے	20							
Abduction	20							
4bdt	10							
ρ̈́ο	0							
de		1	26	51		76		
tion	-10							
Adduction deg	-20							
Norm		4.24	4.54	2.76	F 00	2.04	4.27	F 24
Right		-4.21	-4.54	-3.76	5.88	3.91	4.37	5.34

HIP KINETICS



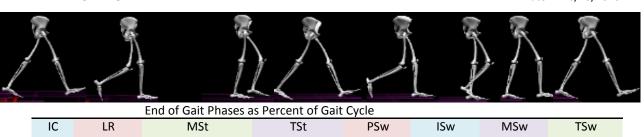
	End of Gait Phases as Percent of Gait Cycle								
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw	
Norm	2%	12%	31%	50%	62%	75%	87%	100%	
Right		12%	36%	48%	63%	79%	90%	100%	
Left		12%	37%	48%	63%	78%	90%	100%	







HIP EMG RMS



_					-,			
	IC	LR	MSt	TSt	PSw	ISw	MSw	TSw
Norm	2%	12%	31%	50%	62%	75%	87%	100%
Right		12%	36%	48%	63%	79%	90%	100%
Left		12%	37%	48%	63%	78%	90%	100%

