

QUINTIC EQUINE GAIT ANALYSIS

Client Name	Centaur Biomechanics	Screening Date	28/09/2015	Contact Details	info@centaurbiomechanics.com
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Summary

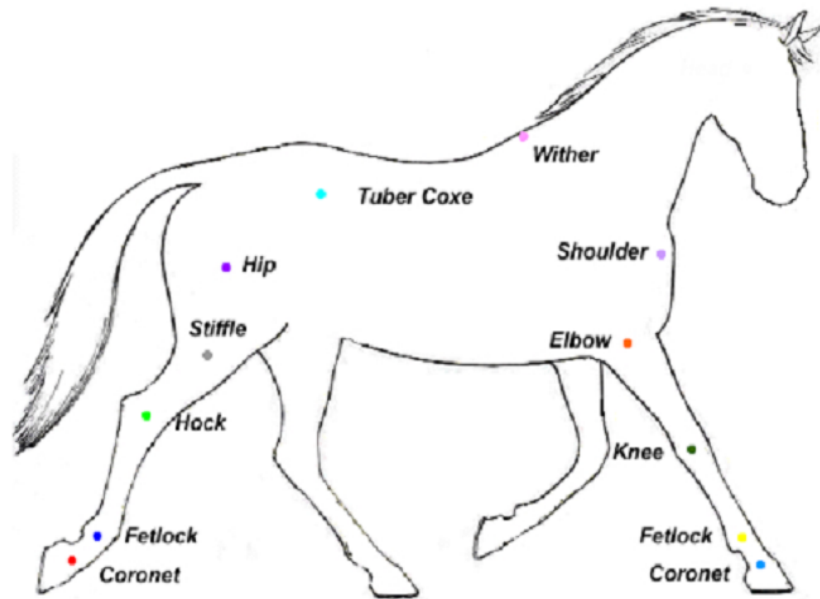
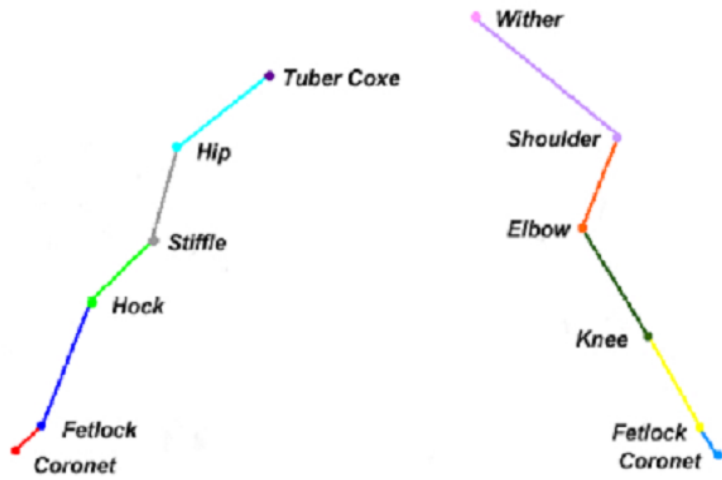
Example Quintic Equine Report: <http://www.quintic.com/software/QAR/Equine.html>

HORSE DETAILS

Name	XXXX	Height	1.88 m	D.O.B.	01/01/2009
Gender	Male	Mass	500 kg	Last Saddle Check	01/09/2015
Breed	XXXX	Surface Trained On		Last Shod Date	01/09/2015
Discipline		Surface Tested On		Last Physio	01/09/2015
Transportation Method		Test Weather		Hind leg weakness	

Additional Comments: Example Quintic Equine Report: <http://www.quintic.com/software/QAR/Equine.html>

TEMPLATE AND IMAGES



KEY AND DIAGRAMS

TDC: 0%

BDC: 50%

Image 1

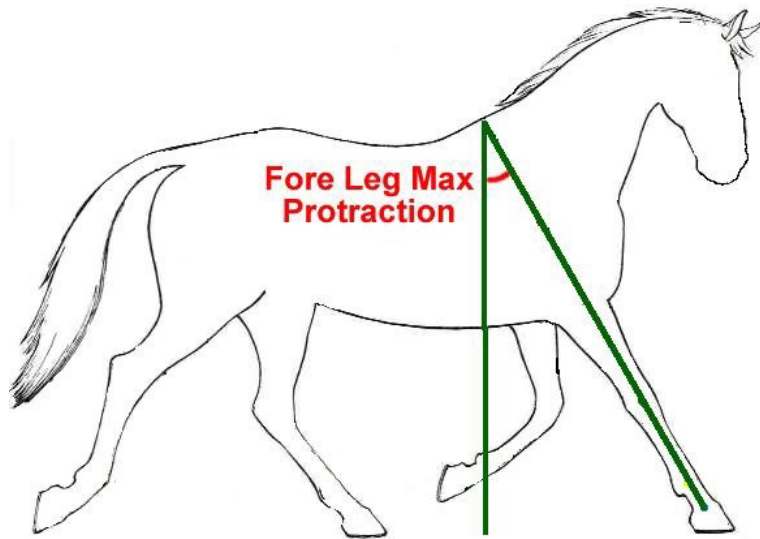


Image 3

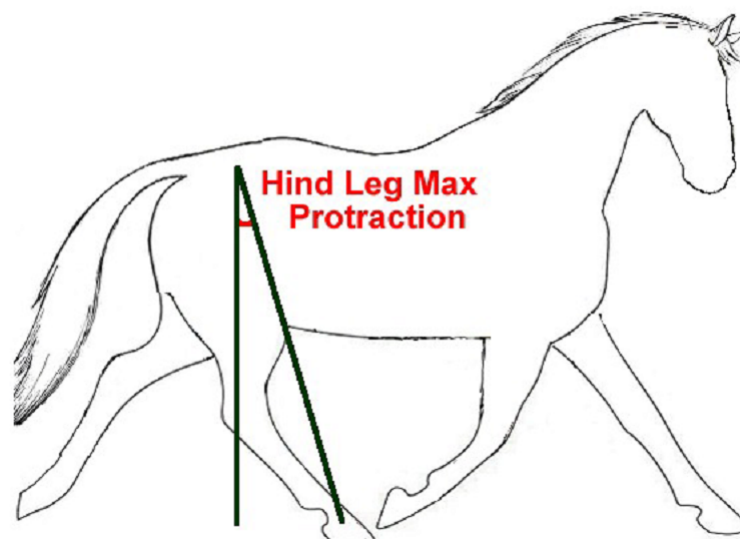


Image 5

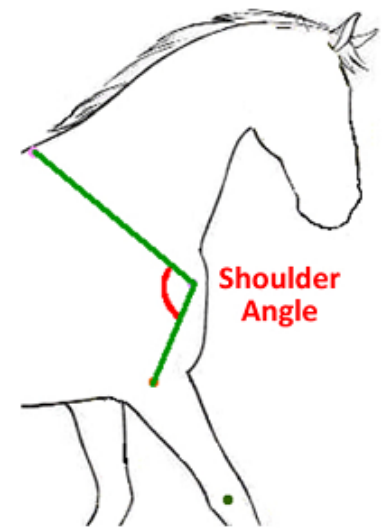


Image 2

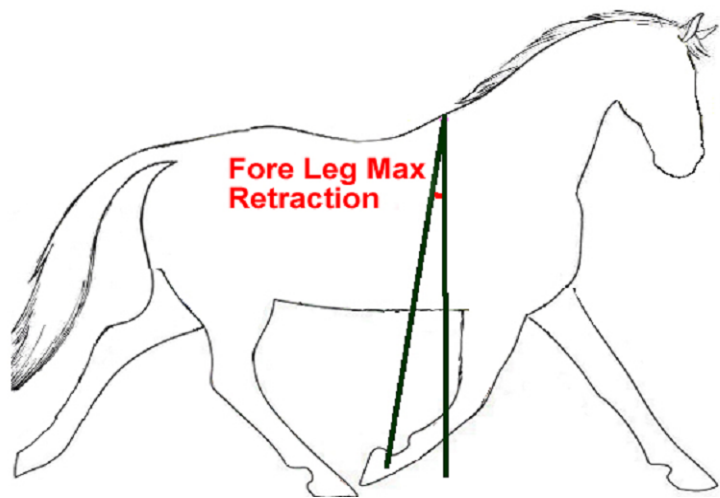


Image 4

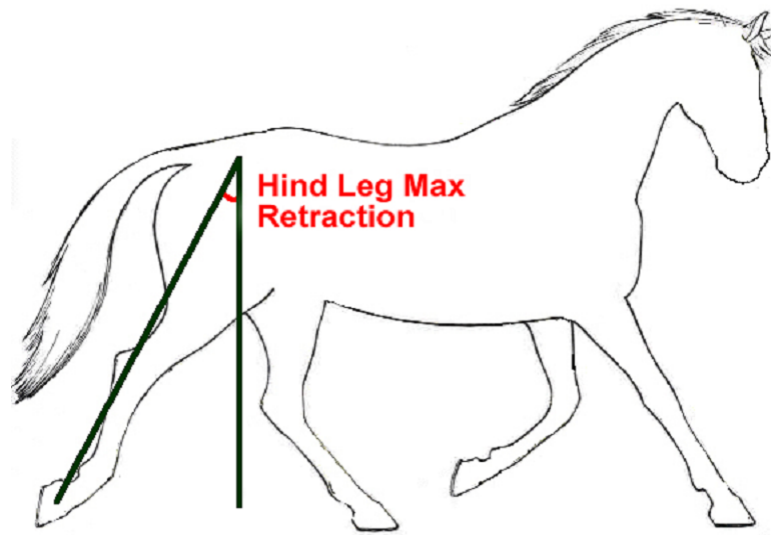
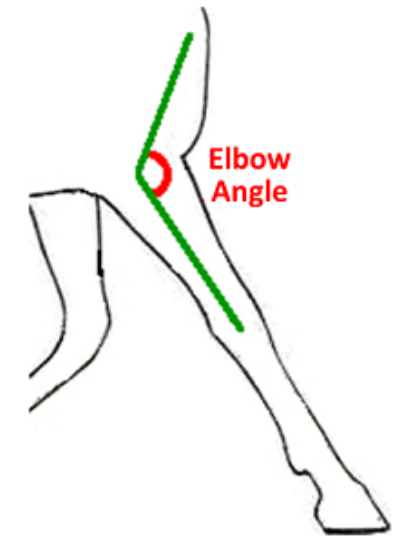


Image 6



KEY AND DIAGRAMS

Image 7

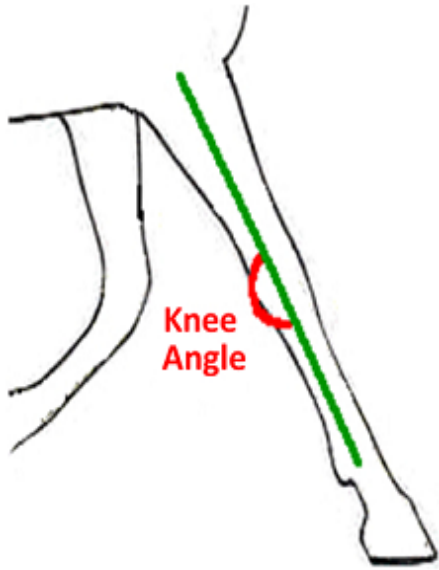


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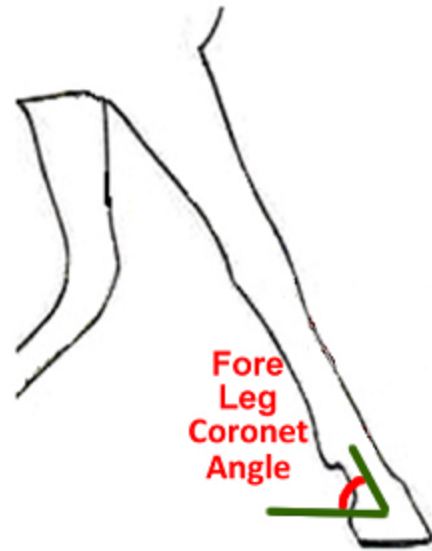


Image 11

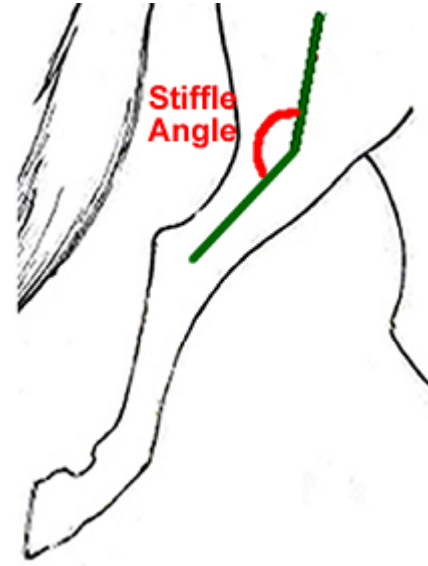


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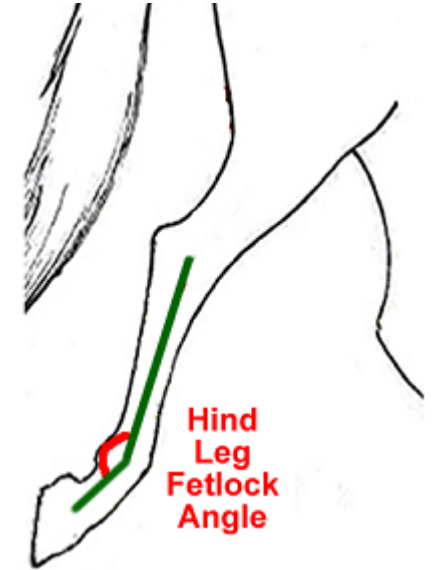


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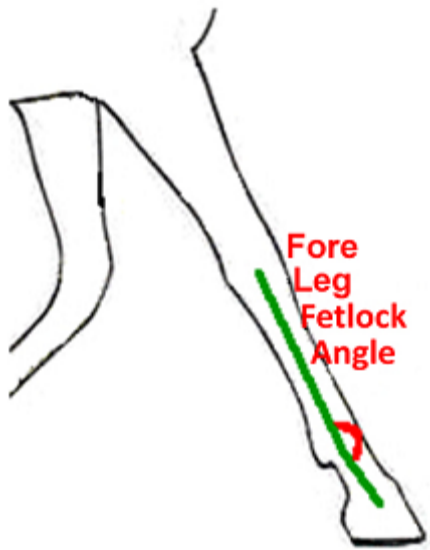


Image 10

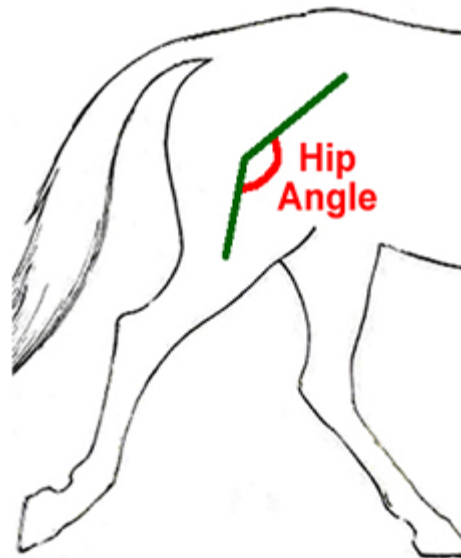


Image 12

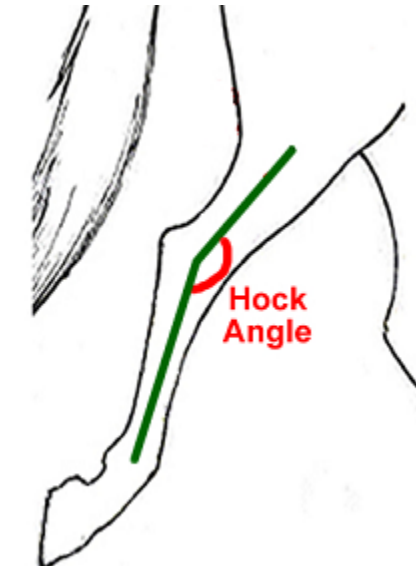
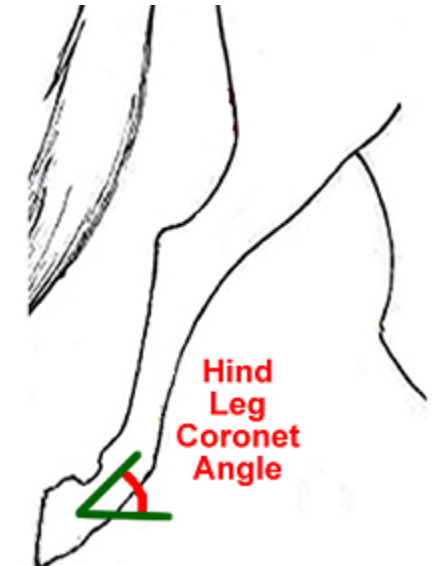


Image 14



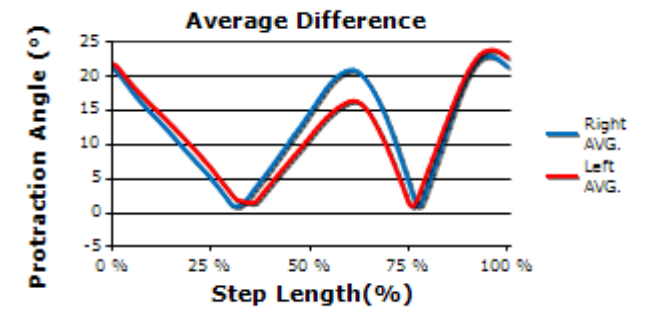
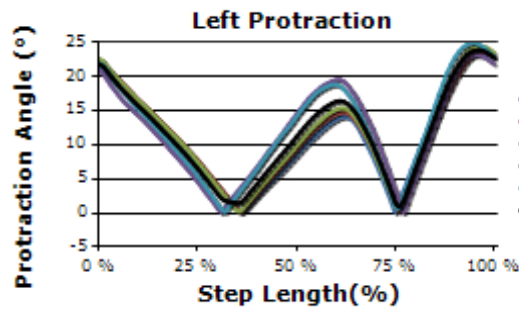
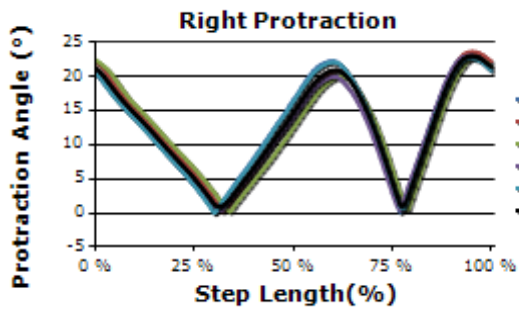
STRIDE CHARACTERISTICS

	Fore Leg	Hind Leg
Stride Length (m)	185cm \pm 5 170cm \pm 11	183cm \pm 5 174cm \pm 10
Stride Time (s)	1,267ms \pm 18 1,365ms \pm 87	1,254ms \pm 12 1,309ms \pm 92
Load Time (s)	747ms \pm 51 781ms \pm 73	729ms \pm 27 744ms \pm 35

FORE LEG PROTRACTION/RETRACTION

See Diagrams (p3): Images 1 & 2

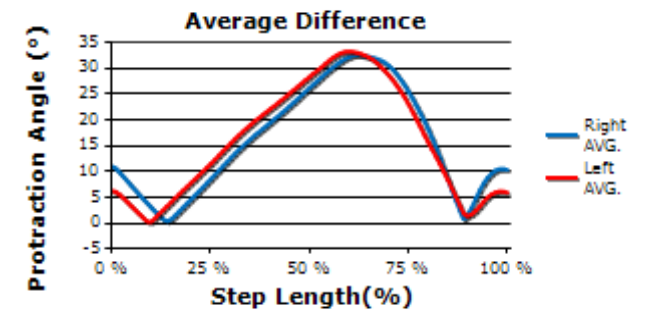
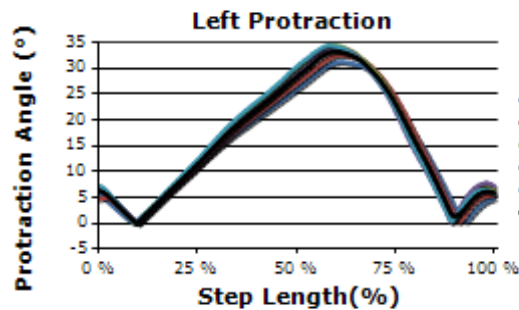
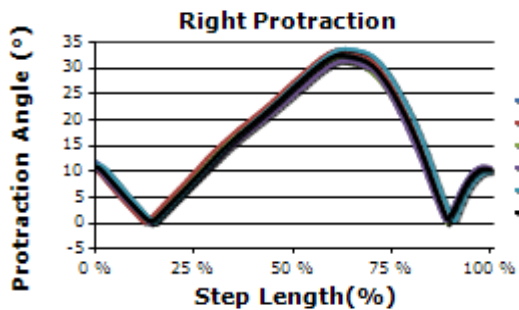
	Retraction	Protraction
Fore Leg Angle (°)	21° \pm 1 16° \pm 2	21° \pm 1 22° \pm 1



HIND LEG PROTRACTION/RETRACTION

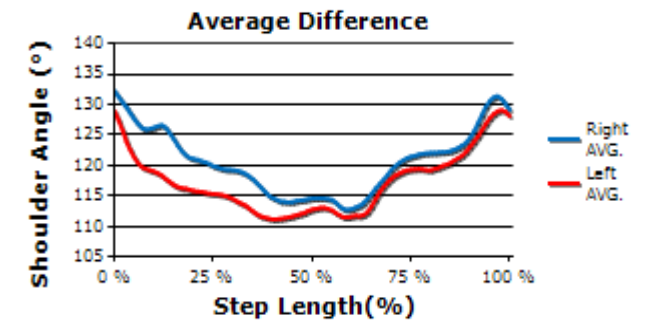
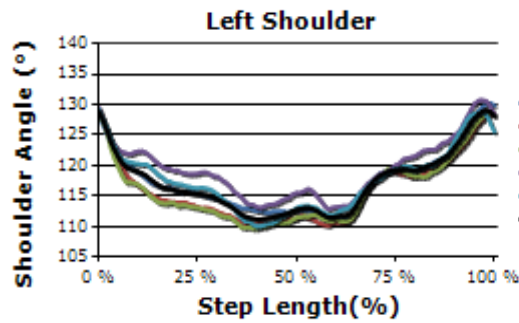
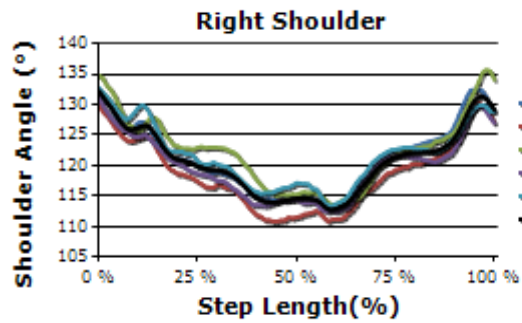
See Diagrams (p3): Image 3 & 4

	Retraction	Protraction
Hind Leg Angle (°)	33° \pm 1 33° \pm 1	11° \pm 1 6° \pm 1



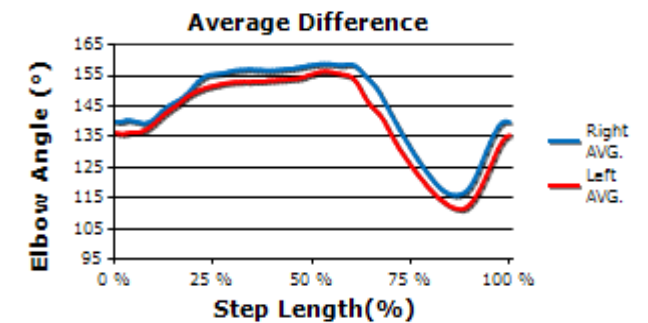
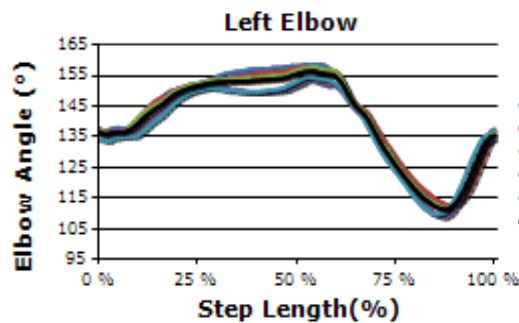
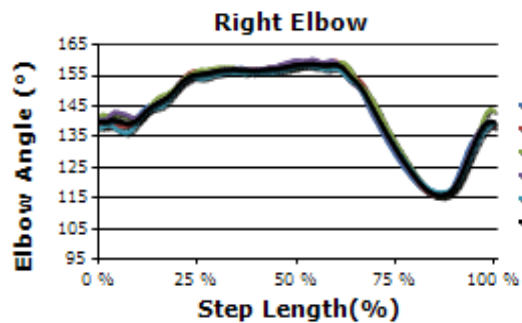
SHOULDER ANGLE GRAPHS

See Diagrams (p3): Image 5



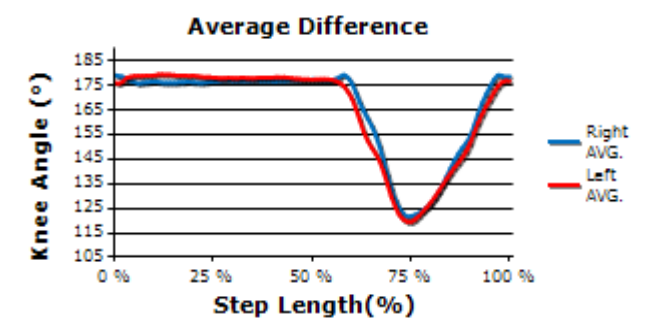
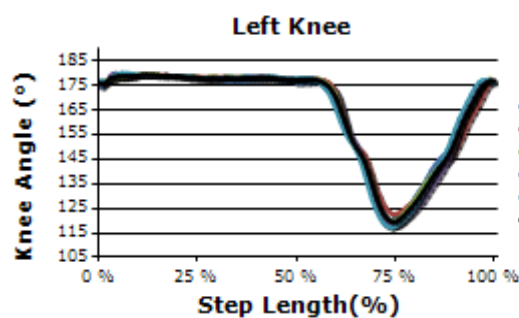
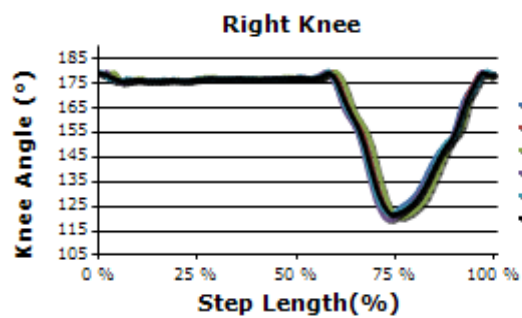
ELBOW ANGLE GRAPHS

See Diagrams (p3): Image 6



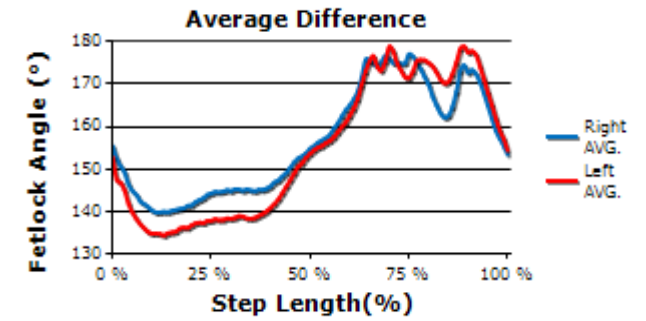
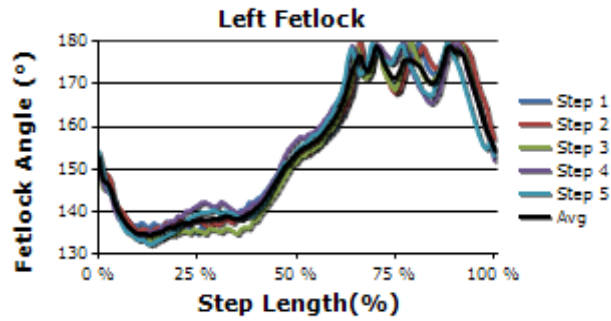
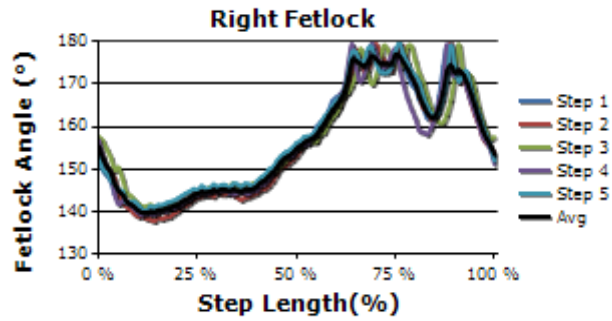
KNEE ANGLE GRAPHS

See Diagrams (p4): Image 7



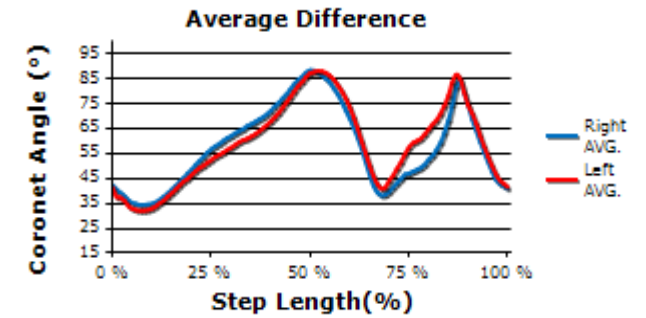
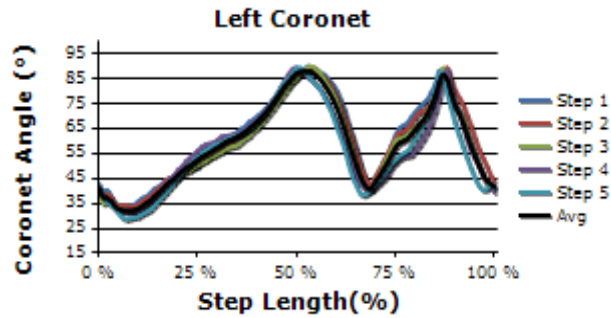
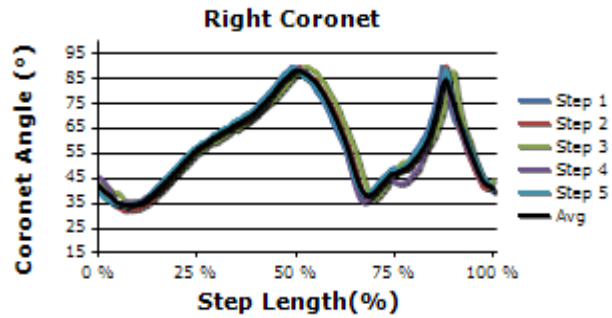
FORE LEG FETLOCK ANGLE GRAPHS

See Diagrams (p4): Image 8



FORE LEG CORONET ANGLE GRAPHS

See Diagrams (p4): Image 9

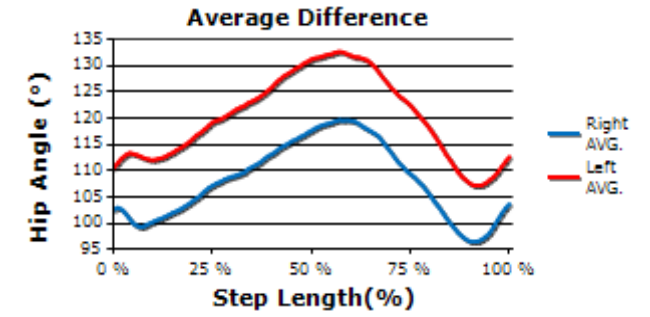
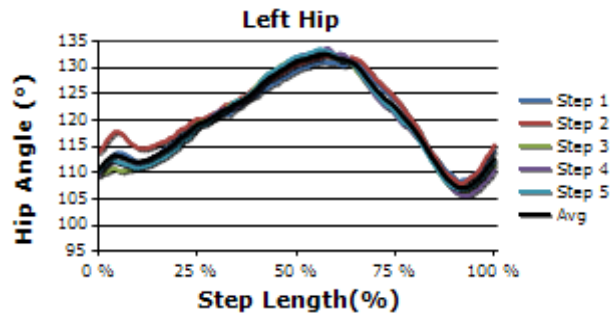
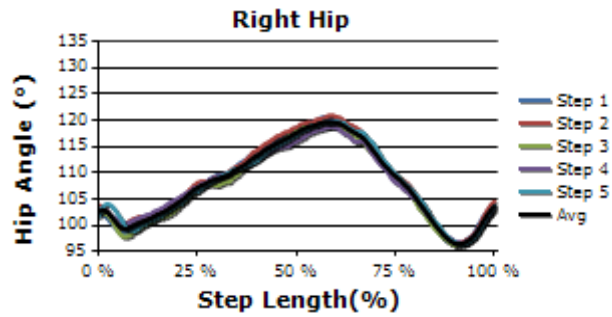


FORE LEG ANGULAR DATA

	% Step Length								Maximum		Minimum	
	0%		25%		50%		75%					
Shoulder	132° ± 2	129° ± 1	120° ± 2	115° ± 2	115° ± 2	113° ± 1	121° ± 1	119° ± 0	132° ± 2	129° ± 1	113° ± 1	111° ± 1
Elbow	140° ± 1	136° ± 1	155° ± 1	152° ± 1	158° ± 1	155° ± 3	131° ± 1	126° ± 2	159° ± 1	156° ± 2	116° ± 0	112° ± 1
Knee	179° ± 0	2° ± 1	177° ± 0	178° ± 0	177° ± 0	177° ± 1	122° ± 1	120° ± 2	179° ± 0	179° ± 0	122° ± 1	120° ± 2
Fetlock	155° ± 2	153° ± 1	144° ± 1	138° ± 2	155° ± 1	154° ± 2	177° ± 1	171° ± 4	177° ± 0	179° ± 0	140° ± 1	135° ± 1
Coronet	42° ± 2	41° ± 1	57° ± 1	52° ± 2	88° ± 1	87° ± 2	47° ± 2	57° ± 5	88° ± 0	88° ± 0	34° ± 1	32° ± 2

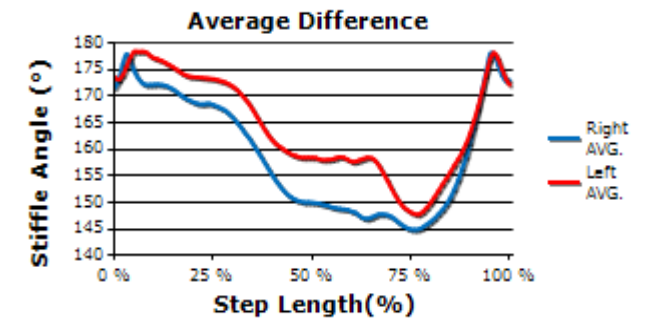
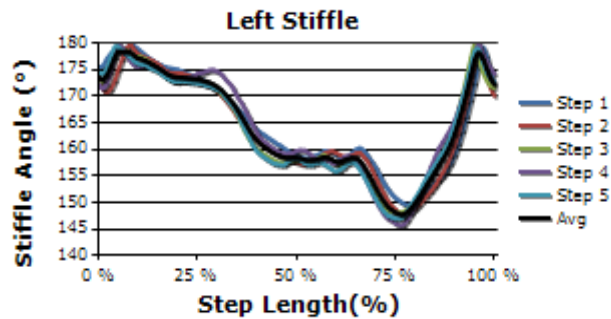
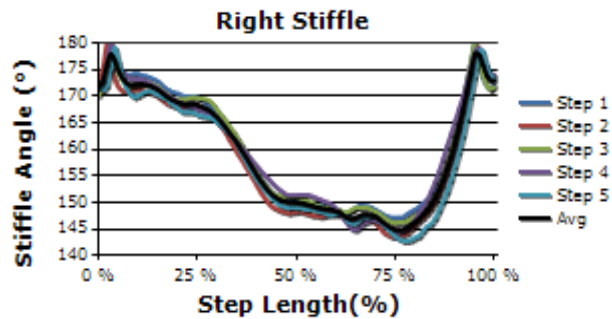
HIP ANGLE GRAPHS

See Diagrams (p4): Image 10



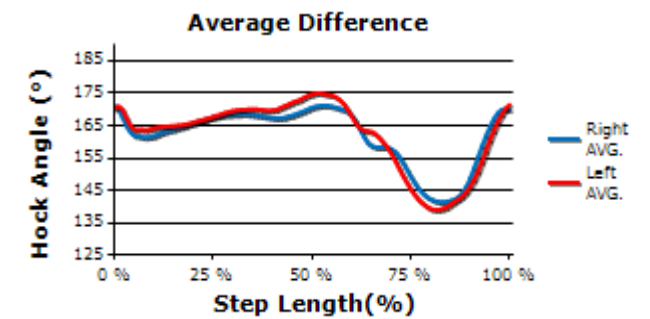
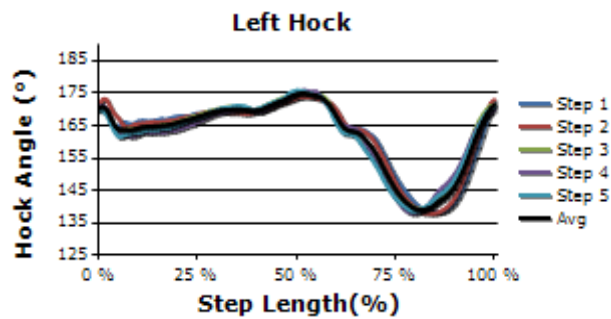
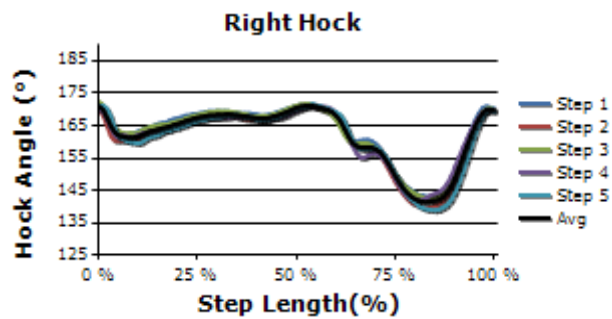
STIFFLE ANGLE GRAPHS

See Diagrams (p4): Image 11



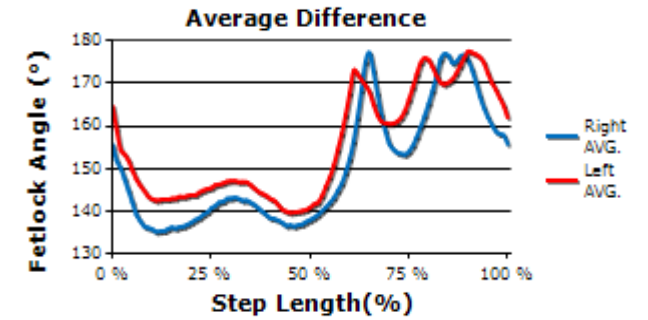
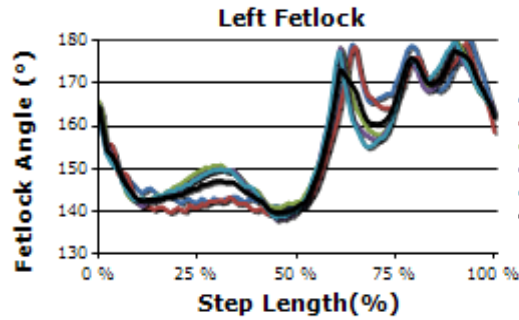
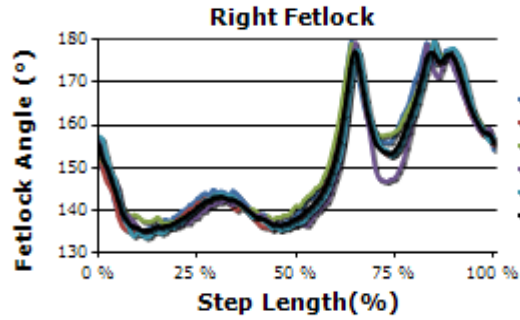
HOCK ANGLE GRAPHS

See Diagrams (p4): Image 12



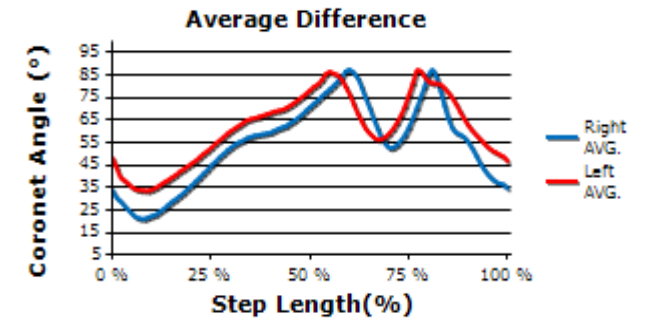
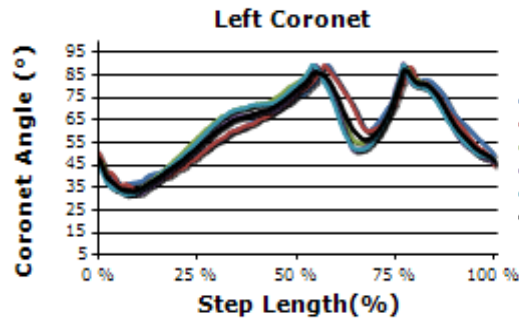
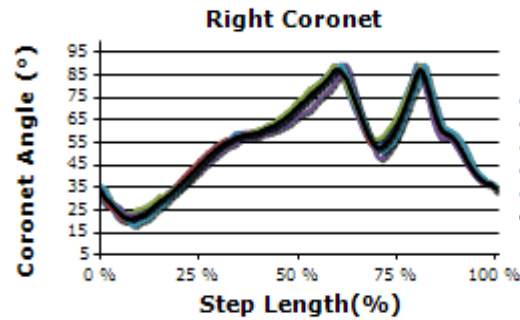
HIND LEG FETLOCK ANGLE GRAPHS

See Diagrams (p4): Image 13



HIND LEG CORONET ANGLE GRAPHS

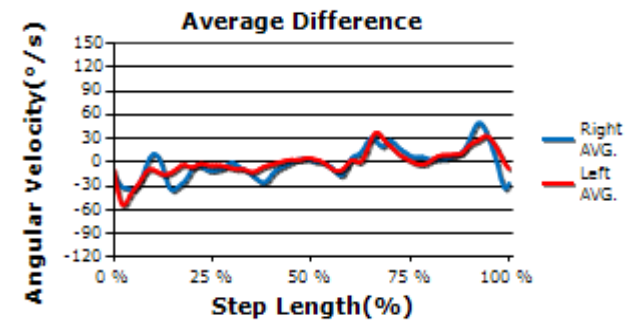
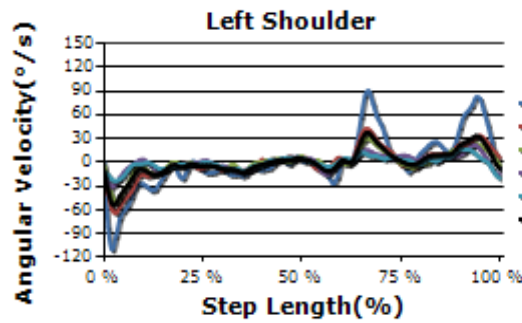
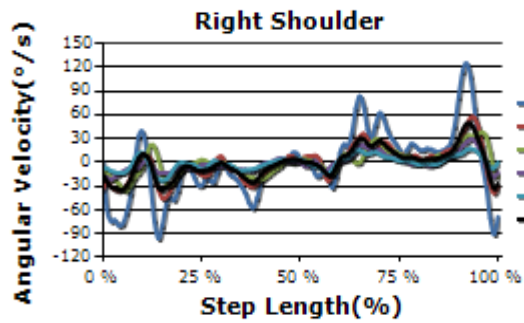
See Diagrams (p4): Image 14



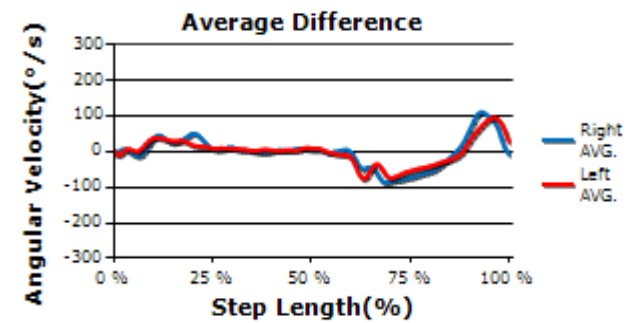
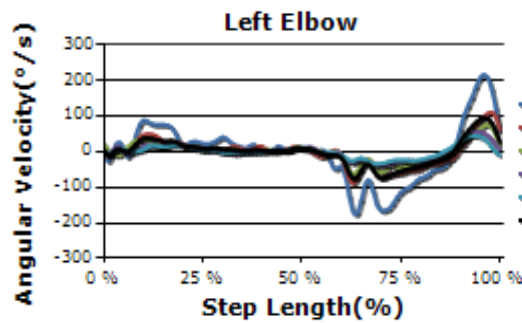
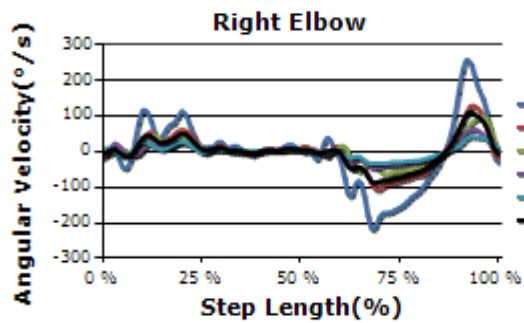
HIND LEG ANGULAR DATA

	% Step Length								Maximum		Minimum	
	0%		25%		50%		75%					
Hip	103° ± 1	111° ± 2	107° ± 1	119° ± 1	118° ± 1	131° ± 1	109° ± 1	122° ± 1	120° ± 1	133° ± 1	97° ± 0	107° ± 1
Stifle	172° ± 1	174° ± 1	168° ± 1	173° ± 1	150° ± 1	158° ± 1	145° ± 1	148° ± 2	178° ± 0	178° ± 0	145° ± 2	148° ± 1
Hock	171° ± 1	170° ± 0	168° ± 1	168° ± 1	171° ± 1	175° ± 1	149° ± 1	145° ± 3	171° ± 0	175° ± 1	142° ± 2	139° ± 0
Fetlock	156° ± 2	165° ± 1	141° ± 1	146° ± 3	138° ± 2	141° ± 1	154° ± 4	166° ± 2	177° ± 0	177° ± 0	135° ± 1	140° ± 1
Coronet	34° ± 2	48° ± 1	45° ± 2	53° ± 3	71° ± 2	78° ± 2	62° ± 4	76° ± 2	87° ± 0	87° ± 0	21° ± 2	34° ± 1

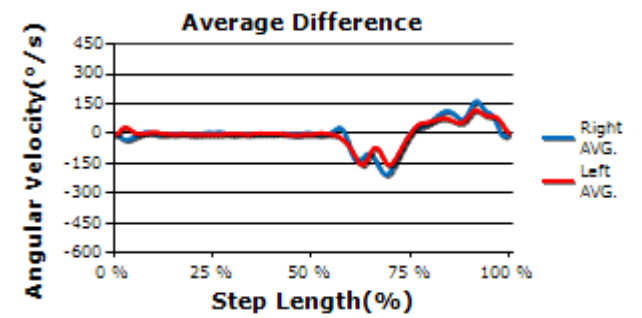
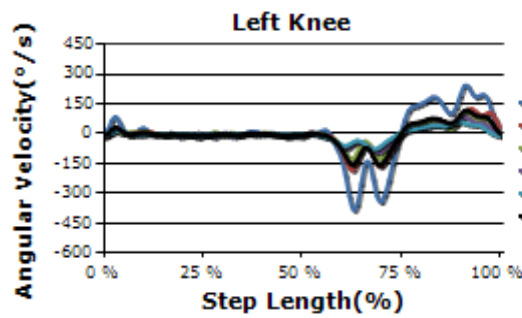
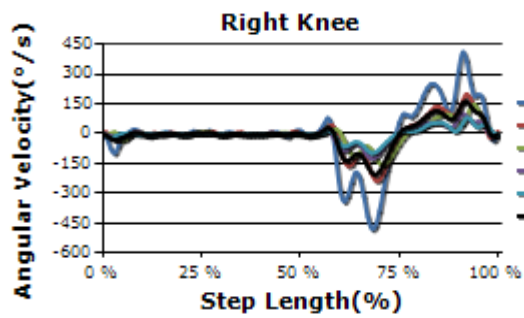
SHOULDER ANGULAR VELOCITY GRAPHS



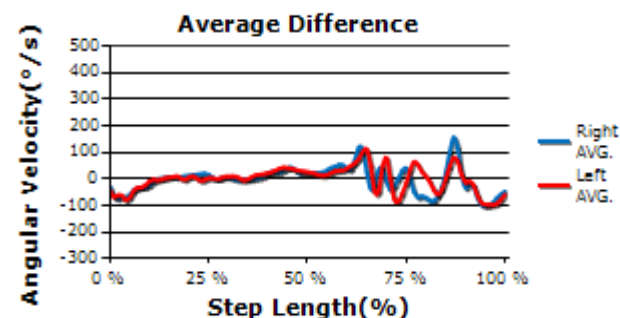
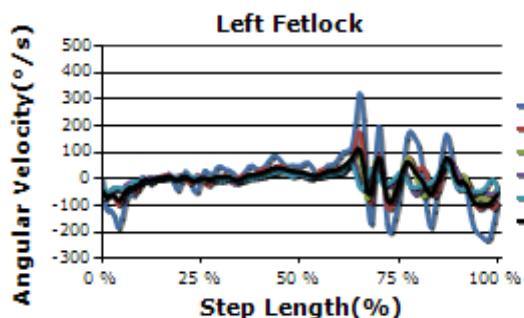
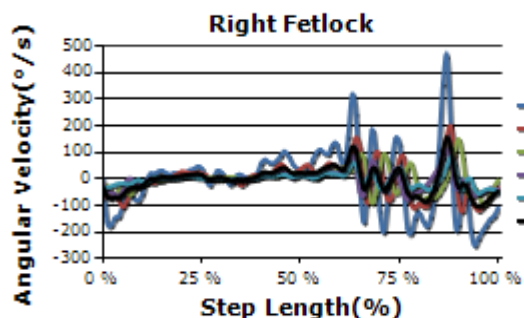
ELBOW ANGULAR VELOCITY GRAPHS



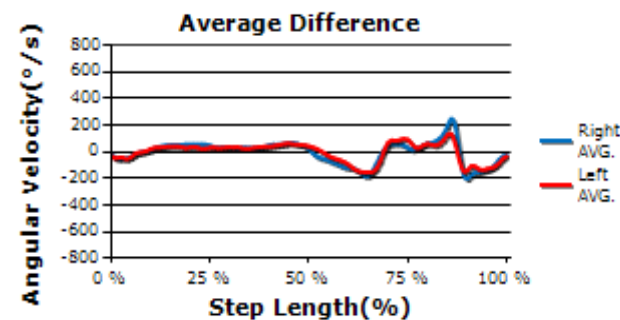
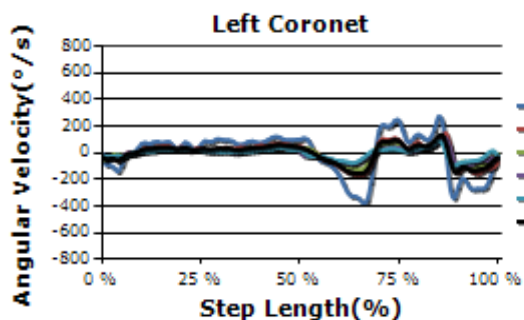
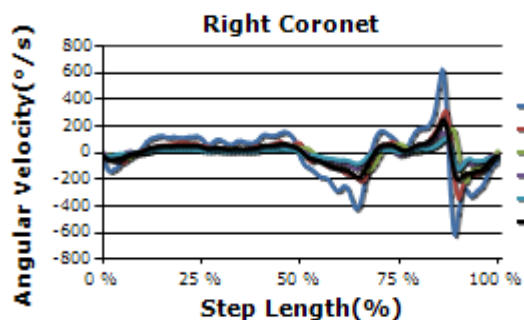
KNEE ANGULAR VELOCITY GRAPHS



FORE LEG FETLOCK ANGULAR VELOCITY GRAPHS



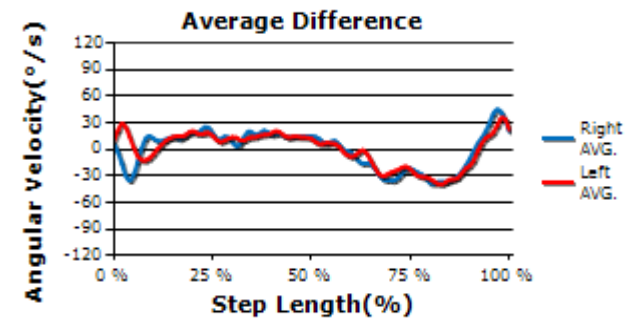
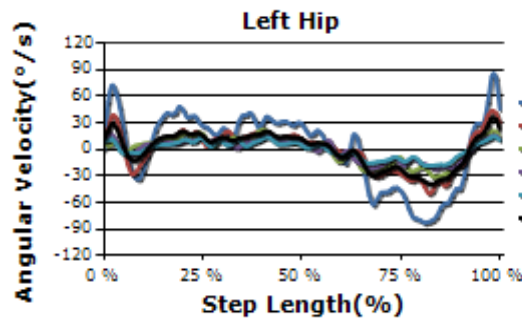
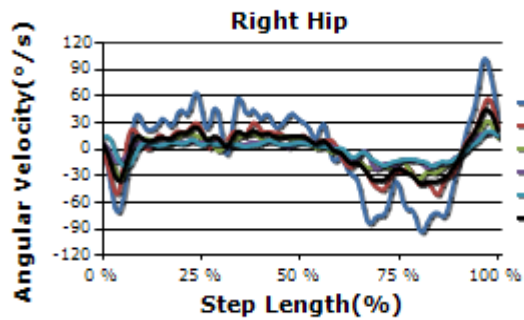
FORE LEG CORONET ANGULAR VELOCITY GRAPHS



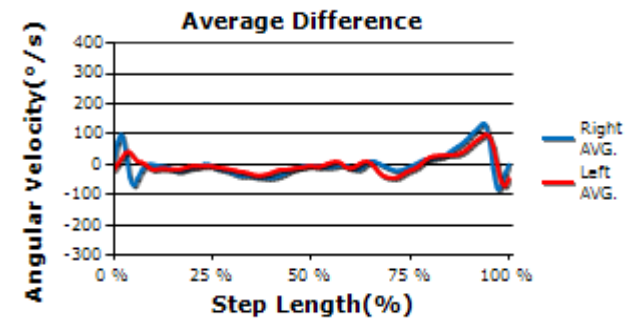
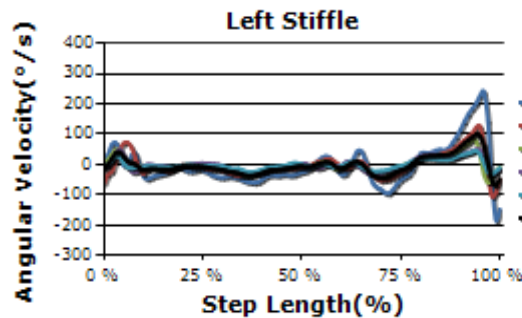
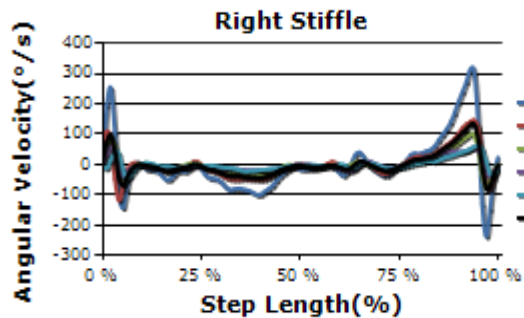
FORE LEG ANGULAR VELOCITY DATA

	% Step Length								Maximum		Minimum	
	0%		25%		50%		75%					
Shoulder	-24° ± 18	-36° ± 23	-11° ± 11	-4° ± 4	2° ± 1	5° ± 2	9° ± 5	2° ± 4	49° ± 37	37° ± 26	-35° ± 27	-53° ± 30
Elbow	-2° ± 8	-10° ± 10	6° ± 7	9° ± 7	5° ± 3	9° ± 1	-73° ± 45	-55° ± 32	110° ± 74	95° ± 60	-87° ± 65	-76° ± 49
Knee	-8° ± 9	2° ± 10	5° ± 2	-4° ± 4	4° ± 7	-3° ± 6	2° ± 35	-1° ± 6	163° ± 116	118° ± 61	-204° ± 134	-156° ± 108
Fetlock	-64° ± 49	-67° ± 23	17° ± 13	5° ± 4	24° ± 8	27° ± 12	41° ± 59	-15° ± 36	157° ± 134	112° ± 94	-100° ± 67	-96° ± 64
Coronet	-43° ± 36	-47° ± 19	49° ± 31	33° ± 15	20° ± 36	44° ± 32	31° ± 28	93° ± 78	248° ± 181	132° ± 63	-200° ± 180	-152° ± 101

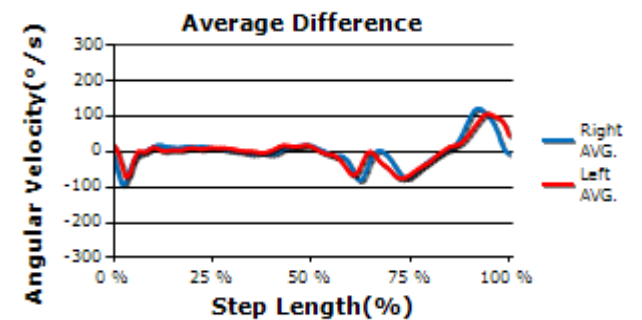
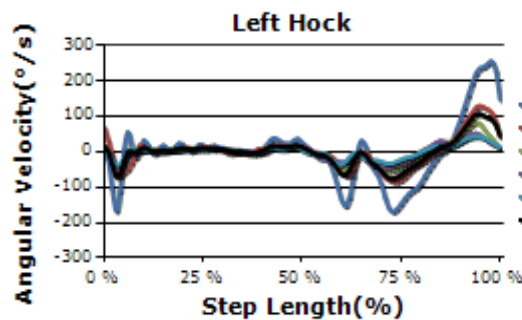
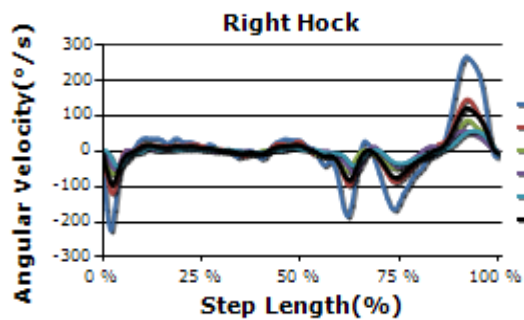
HIP ANGULAR VELOCITY GRAPHS



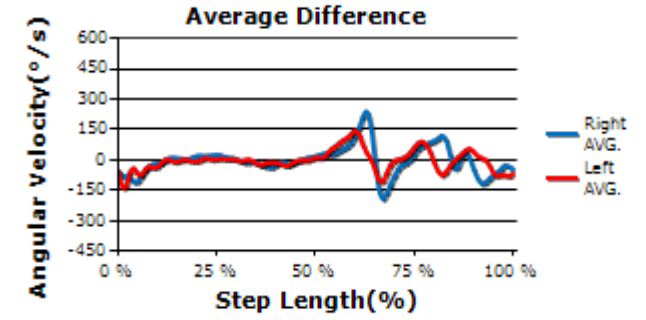
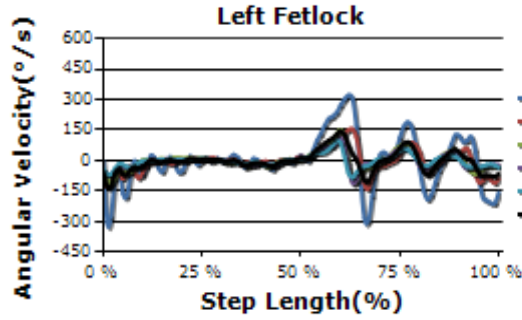
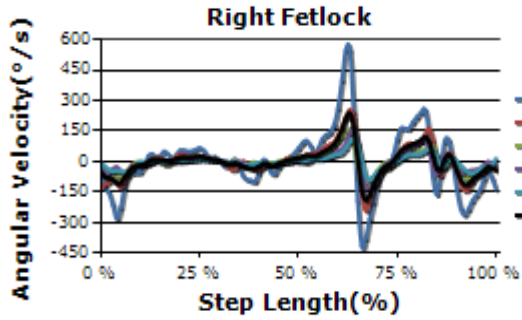
STIFFLE ANGULAR VELOCITY GRAPHS



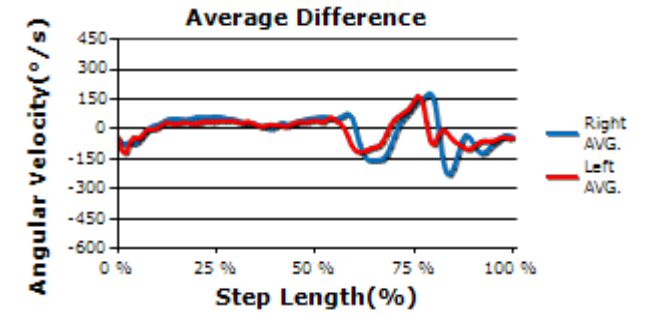
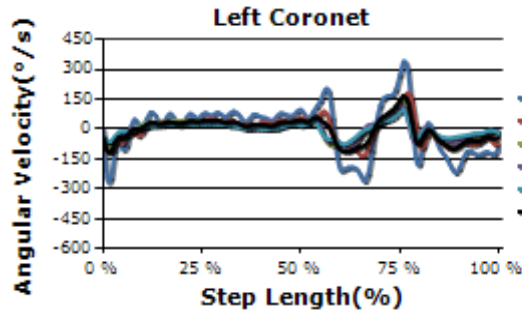
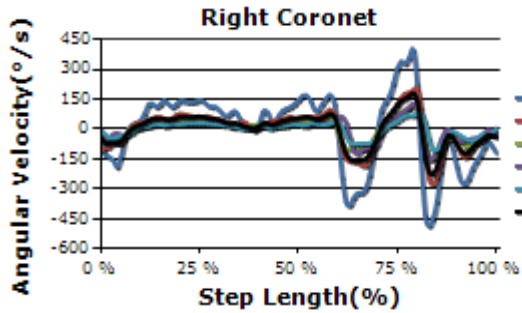
HOCK ANGULAR VELOCITY GRAPHS



HIND LEG FETLOCK ANGULAR VELOCITY GRAPHS



HIND LEG CORONET ANGULAR VELOCITY GRAPHS



HIND LEG ANGULAR VELOCITY DATA

	% Step Length								Maximum		Minimum	
	0%		25%		50%		75%					
Hip	-3° ± 11	21° ± 17	18° ± 14	16° ± 6	15° ± 9	12° ± 9	-21° ± 11	-22° ± 13	45° ± 30	35° ± 25	-38° ± 26	-39° ± 23
Stifle	76° ± 70	3° ± 21	-5° ± 5	-5° ± 8	-2° ± 6	-4° ± 11	-6° ± 2	-18° ± 17	132° ± 92	99° ± 70	-77° ± 70	-69° ± 55
Hock	-56° ± 57	0° ± 17	9° ± 4	11° ± 5	16° ± 9	14° ± 7	-72° ± 40	-66° ± 44	121° ± 77	106° ± 76	-91° ± 64	-76° ± 46
Fetlock	-74° ± 36	-127° ± 88	28° ± 20	7° ± 5	20° ± 23	15° ± 9	31° ± 41	65° ± 28	238° ± 154	147° ± 78	-187° ± 116	-127° ± 77
Coronet	-68° ± 36	-106° ± 70	64° ± 42	42° ± 16	58° ± 45	46° ± 29	122° ± 93	144° ± 65	180° ± 111	167° ± 86	-223° ± 135	-113° ± 63

ABOUT EQUINE