

		Original Analysis						Modified Analysis with walking speed as covariate variable					
	Pairs	NG-CR	NG-IW	NG-ZG	CR-IW	CR-ZG	IW-ZG	NG-CR	NG-IW	NG-ZG	CR-IW	CR-ZG	IW-ZG
General Gait Variables													
Walking speed [m/s]	F value	F (3,19) =104.85, p=<.0001											
	t value	-16.19	-15.24	-7.67	-1.35	6.19	7.13						
	p value	<.0001	<.0001	<.0001	0.6902	<.0001	<.0001						
Metabolic cost [(ml/min/kg)/m]	F value	F (3,19) =51.03, p=<.0001											
	t value	-9.56	-9.38	-4.28	5.01	6.65	-4.09						
	p value	<.0001	<.0001	0.0004	<.0001	<.0001	0.0006						
Stance phase [%GC]	F value	F (3,19) =74.32, p=<.0001						F (3,19) =40.21, p=<.0001					
	t value	9.5	11.34	-13.67	2.75	4.95	4.61	9.09	7.65	-8.97	3.98	5.54	3.61
	p value	<.0001	<.0001	<.0001	0.0704	0.0005	0.0011	<.0001	<.0001	<.0001	0.0008	<.0001	0.0019
Joint Angles													
Hip_ 1stPeakAngle [deg]	F value	F (3,19) =6.46, p=0.0034						F (3,19) =4.35, p=.0171					
	t value	-0.72	3.9	-1.01	-3.52	-1.3	2.78	-0.28	2.23	-1	-3.55	-1.44	2.47
	p value	0.9738	0.0056	0.8875	0.0133	0.7264	0.0666	0.9998	0.1947	0.8922	0.0123	0.6341	0.1232
Hip_ 1stPeakAngle %GC	F value	F (3,19) =55.43, p=<.0001						F (3,19) =32.97, p=<.0001					
	t value	3.66	12.24	-5.3	-6.53	-1.26	4.79	4.55	9.67	-5.54	-6.94	-1.14	5.33
	p value	0.0097	<.0001	0.0002	<.0001	0.7492	0.0008	0.0013	<.0001	0.0001	<.0001	0.8233	0.0002
Hip_ 2ndPeakAngle [deg]	F value	F (3,19) =64.42, p=<.0001						F (3,19) =47.93, p=<.0001					
	t value	11.83	4.72	-3.81	6.89	9.4	3.84	8.06	0.05	1.78	9.45	11.68	1.75
	p value	<.0001	0.0009	0.007	<.0001	<.0001	0.0065	<.0001	1	0.4106	<.0001	<.0001	0.43
Hip_ 2ndPeakAngle %GC	F value	F (3,19) =60.05, p=<.0001						F (3,19) =17.77, p=<.0001					
	t value	8.83	10.97	-9	1.5	4.72	4.39	6.07	5.11	-5.42	2.71	4.69	2.91
	p value	<.0001	<.0001	<.0001	0.5923	0.0009	0.0018	<.0001	0.0004	0.0002	0.0771	0.0009	0.0505
Knee_ 1stPeakAngle [deg]	F value	F (3,19) =31.15, p=<.0001						F (3,19) =41.91, p=<.0001					
	t value	7.37	0.06	0.2	9.33	7.47	0.21	9.03	3.06	-2.92	7.39	8.59	1.99
	p value	<.0001	1	1	<.0001	<.0001	1	<.0001	0.0363	0.0491	<.0001	<.0001	0.2931
Knee_ 1stPeakAngle %GC	F value	F (3,19) =55.31, p=<.0001						F (3,19) =26.04, p=<.0001					
	t value	-9.44	-6.95	2.12	-2.69	-7.22	-5.04	-7.15	-4.03	1.7	-2.47	-7.16	-4.45
	p value	<.0001	<.0001	0.2355	0.0802	<.0001	0.0004	<.0001	0.0042	0.4583	0.123	<.0001	0.0016
Knee_ 2ndPeakAngle [deg]	F value	F (3,19) =41.53, p=<.0001						F (3,19) =13.62, p=<.0001					
	t value	-5.6	-10.74	5.42	0.32	-3.76	-9	-3.73	-2.93	0.5	-0.71	-4.45	-5.05
	p value	0.0001	<.0001	0.0002	0.9997	0.0077	<.0001	0.0082	0.0487	0.9962	0.9765	0.0016	0.0004

Knee_ 2ndPeakAngle %GC	F value	F (3,19) =78.96, p=<.0001						F (3,19) =30.56, p=<.0001					
	t value	10.16	11.5	-13.2	3.76	5.73	4.33	8.91	5.59	-6.12	5.11	6.38	2.77
	p value	<.0001	<.0001	<.0001	0.0078	<.0001	0.0021	<.0001	0.0001	<.0001	0.0004	<.0001	0.0668
Ankle_ 1stPeakAngle [deg]	F value	F (3,19) =1.37, p=0.2826						F (3,19) =2.88, p=.0631					
	t value	-1.68	-0.09	0.58	-1.52	-1.17	0.22	-2.7	-1.79	2.22	-0.54	-1.4	-0.76
	p value	0.468	1	0.9915	0.5795	0.8029	1	0.0781	0.4027	0.1993	0.994	0.6552	0.9679
Ankle_ 1stPeakAngle %GC	F value	F (3,19) =31.78, p=<.0001						F (3,19) =12.88, p=<.0001					
	t value	4.86	5.21	-9.63	2.37	1.99	0.33	2.77	-0.85	-1.38	4.92	2.39	-2.32
	p value	0.0006	0.0003	<.0001	0.1485	0.2958	0.9996	0.0675	0.9462	0.673	0.0006	0.1438	0.1638
Ankle_ 2ndPeakAngle [deg]	F value	F (3,19) =38.90, p=<.0001						F (3,19) =44.23, p=<.0001					
	t value	-1.79	-1.55	-8.25	-0.44	-6.25	-6.54	-4.05	-4	-1.89	0.79	-7.84	-7.88
	p value	0.4009	0.5599	<.0001	0.9979	<.0001	<.0001	0.004	0.0045	0.3477	0.9603	<.0001	<.0001
Ankle_ 2ndPeakAngle %GC	F value	F (3,19) =36.08, p=<.0001						F (3,19) =14.43, p=<.0001					
	t value	6.23	7.9	-9.87	1.77	2.73	2.4	4.97	2.75	-4.37	3.81	3.2	0.36
	p value	<.0001	<.0001	<.0001	0.4151	0.0732	0.1402	0.0005	0.0707	0.0019	0.0069	0.027	0.9994
Center of Mass													
CoM_Mediolateral fluctuation [mm]	F value	F (3,19) =298.81, p=<.0001						F (3,19) =99.99, p=<.0001					
	t value	-3.11	18.83	-8.76	-20.02	-10.1	13.28	-2.86	16.85	-6.09	-15.75	-7.51	13.73
	p value	0.0326	<.0001	<.0001	<.0001	<.0001	<.0001	0.0563	<.0001	<.0001	<.0001	<.0001	<.0001
CoM_Vertical fluctuation [%Height]	F value	F (3,19) =82.01, p=<.0001						F (3,19) =65.49, p=<.0001					
	t value	9.99	-0.23	-0.03	10.86	8.93	-0.29	14.01	6.5	-5.55	7.37	10.01	2.98
	p value	<.0001	1	1	<.0001	<.0001	0.9998	<.0001	<.0001	0.0001	<.0001	<.0001	0.0437
Ground Reaction Forces													
AP_GRF_ 1stPeak %BW	F value	F (3,19) =50.94, p=<.0001						F (3,19) =58.93, p=<.0001					
	t value	-8.95	3.3	-0.7	-12.09	-9.43	2.74	-13.1	-4.75	5.3	-10.97	-11.45	-0.97
	p value	<.0001	0.0217	0.9774	<.0001	<.0001	0.0711	<.0001	0.0008	0.0002	<.0001	<.0001	0.9032
AP_GRF_ 1stPeak %SP	F value	F (3,19) =77.35, p=<.0001						F (3,19) =51.67, p=<.0001					
	t value	-13.89	-12.55	11.14	-1.86	-6.55	-8.19	-11.07	-5.93	5.57	-4	-7.27	-4.24
	p value	<.0001	<.0001	<.0001	0.3636	<.0001	<.0001	<.0001	<.0001	0.0001	0.0045	<.0001	0.0026
AP_GRF_ 2ndPeak %BW	F value	F (3,19) =27.44, p=<.0001						F (3,19) =22.83, p=<.0001					
	t value	2.48	-2.03	6.06	6.24	7.61	2.9	5.75	2.76	1.64	3.87	8.01	5.79
	p value	0.1206	0.2768	<.0001	<.0001	<.0001	0.0514	<.0001	0.0686	0.4949	0.0061	<.0001	<.0001
AP_GRF_ 2ndPeak %SP	F value	F (3,19) =29.34, p=<.0001						F (3,19) =32.09, p=<.0001					
	t value	0.78	-4.75	7.54	4.46	4.24	1.18	-1.86	-7.12	8.44	6.11	4.2	-0.13
	p value	0.9616	0.0008	<.0001	0.0016	0.0026	0.7978	0.3618	<.0001	<.0001	<.0001	0.0028	1
VerticalGRF_ 1stPeak %BW	F value	F (3,19) =12.67, p=<.0001						F (3,19) =44.34, p=<.0001					
	t value	5.38	2.42	-0.37	3.8	5.91	2.03	11.26	9.55	-8.01	1.94	8.27	7.09

	p value	0.0002	0.1369	0.9992	0.0071	<.0001	0.2766	<.0001	<.0001	<.0001	0.3182	<.0001	<.0001
VerticalGRF_ 1stPeak %SP	F value	F (3,19) =97.81, p=<.0001						F (3,19) =60.31, p=<.0001					
	t value	-15.02	-13.35	9.05	-4.23	-5.67	-3.34	-12.8	-7.04	6.25	-5.54	-5.99	-2
	p value	<.0001	<.0001	<.0001	0.0027	0.0001	0.0199	<.0001	<.0001	<.0001	0.0001	<.0001	0.2909
VerticalGRF_ 2ndPeak %BW	F value	F (3,19) =9.74, p=.0004						F (3,19) =8.25, p=.001					
	t value	-3.41	-4.35	5.23	1.04	2.63	0.92	0.1	0.65	2.03	-0.59	2.67	3.72
	p value	0.0168	0.002	0.0003	0.8724	0.0896	0.9224	1	0.985	0.274	0.9909	0.0825	0.0084
VerticalGRF_ 2ndPeak %SP	F value	F (3,19) =78.59, p=<.0001						F (3,19) =9.26, p=0.0005					
	t value	-7.11	-14.23	8.42	1.69	-0.43	-3.06	-4.24	-4.72	4.64	0.66	-0.2	-1.1
	p value	<.0001	<.0001	<.0001	0.4675	0.9983	0.0363	0.0026	0.0009	0.0011	0.9829	1	0.844
Subjective rating													
Comfort	F value	-	-	-	F (2,19) =8.14, p=.0028			Changed from significant to nonsignificant Changed from nonsignificant to significant					
	t value	-	-	-	-4.03	-1.76	1.44						
	p value	-	-	-	0.0021	0.2476	0.4069						
Perceived Exertion	χ² value	-	-	-	χ ² (2) =16.25, p=.0003								
	S value	-	-	-	71.5	74.5	-16.5						
	p value	-	-	-	0.0008	<.0001	0.399						
Stability	F value	-	-	-	F (2,19) =5.94, p=.0099								
	t value	-	-	-	-0.49	-2.69	-3.12						
	p value	-	-	-	0.9466	0.0417	0.0166						