

**Table S1**  
Effect of repression of the GR on gait parameters during the CatWalk test 5, 6, and 7 weeks after hypoxic-ischemic injury

Parameter	Paw	5 Weeks			6 Weeks			7 Weeks		
		Sham	HIE + Neg. Control	HIE + siRNA GR	Sham	HIE + Neg. Control	HIE + siRNA GR	Sham	HIE + Neg. Control	HIE + siRNA GR
Max Intensity	RF	131.7 ± 35.32	119.4 ± 44.94	138.3 ± 36.56	119.4 ± 34.64	114.4 ± 30.19	124.5 ± 33.47	152.8 ± 25.11	154.7 ± 25.03	165.5 ± 23.95
	LF	132.5 ± 37.61	115.0 ± 43.22	141.5 ± 36.55	110.9 ± 34.71	122.3 ± 30.07	124.6 ± 34.69	159.1 ± 26.30	158.2 ± 27.54	172.2 ± 13.05
	RH	126.0 ± 46.45	121.4 ± 52.28	132.0 ± 54.22	98.3 ± 36.82	94.42 ± 23.35	105.5 ± 33.34	126.9 ± 31.70	144.2 ± 31.30	147.5 ± 22.44
	LH	131.0 ± 46.12	121.9 ± 57.26	138.3 ± 52.22	88.3 ± 31.81	100.2 ± 22.91	104.5 ± 36.14	125.6 ± 34.87	143.8 ± 33.26	148.6 ± 24.62
Max Area (cm <sup>2</sup> )	RF	0.7854 ± 0.3958	0.7064 ± 0.4752	0.8710 ± 0.3620	0.6514 ± 0.3012	0.6327 ± 0.2840	0.7812 ± 0.3360	1.0481 ± 0.3237	1.0401 ± 0.2787	1.1851 ± 0.2755
	LF	0.8152 ± 0.3614	0.7018 ± 0.4506	0.9309 ± 0.3887	0.6214 ± 0.2994	0.6949 ± 0.2502	0.7719 ± 0.2847	1.1319 ± 0.3403	1.1670 ± 0.2864	1.3014 ± 0.2465
	RH	0.5860 ± 0.3602	0.6099 ± 0.4582	0.6973 ± 0.4343	0.3836 ± 0.2065	0.4016 ± 0.1866	0.5127 ± 0.2553	0.7187 ± 0.2630	0.8157 ± 0.2963	0.9254 ± 0.2081
	LH	0.6170 ± 0.3868	0.6340 ± 0.4884	0.7637 ± 0.4456	0.3594 ± 0.2221	0.4495 ± 0.2218	0.5326 ± 0.2862	0.7069 ± 0.2862	0.8866 ± 0.3313	0.8979 ± 0.1768
Print Area (cm <sup>2</sup> )	RF	0.9471 ± 0.4726	0.8510 ± 0.5610	1.0353 ± 0.4259	0.7571 ± 0.3392	0.7463 ± 0.3221	0.9151 ± 0.3631	1.2233 ± 0.3532	1.2348 ± 0.2900	1.3736 ± 0.2905
	LF	0.9841 ± 0.4336	0.8463 ± 0.5440	1.1010 ± 0.4360	0.7340 ± 0.3244	0.8259 ± 0.2838	0.9088 ± 0.3248	1.3356 ± 0.4392	1.3894 ± 0.3448	1.5510 ± 0.3647
	RH	0.7791 ± 0.5028	0.8155 ± 0.6320	0.9497 ± 0.5822	0.5303 ± 0.2978	0.5770 ± 0.2970	0.7233 ± 0.3529	0.9853 ± 0.3550	1.1516 ± 0.3813	1.2800 ± 0.2716
	LH	0.8258 ± 0.5488	0.8340 ± 0.6462	1.0061 ± 0.5872	0.5118 ± 0.3293	0.6338 ± 0.3004	0.7382 ± 0.3950	0.9690 ± 0.3886	1.2527 ± 0.4205	1.2528 ± 0.2453
Print Width (cm)	RF	1.3072 ± 0.3541	1.1918 ± 0.4525	1.3826 ± 0.2924	1.2774 ± 0.3811	1.2536 ± 0.3541	1.3882 ± 0.3568	1.7961 ± 0.2447	1.7384 ± 0.1590	1.8336 ± 0.1729
	LF	1.3160 ± 0.3697	1.1684 ± 0.4531	1.4169 ± 0.3222	1.2546 ± 0.3698	1.2995 ± 0.3294	1.4051 ± 0.3666	1.8323 ± 0.1574	1.8121 ± 0.1354	1.8499 ± 0.1269
	RH	1.2373 ± 0.4344	1.2405 ± 0.4909	1.3374 ± 0.4075	1.1606 ± 0.4699	1.2169 ± 0.4010	1.3773 ± 0.3975	1.6508 ± 0.2319	1.6752 ± 0.2206	1.7462 ± 0.1701
	LH	0.8258 ± 0.5488	0.8340 ± 0.6462	1.0061 ± 0.5872	0.5118 ± 0.3293	0.6338 ± 0.3004	0.7382 ± 0.3950	0.9690 ± 0.3886	1.2527 ± 0.4205	1.2528 ± 0.2453
Print Length (cm)	RF	1.3072 ± 0.3541	1.1918 ± 0.4525	1.3826 ± 0.2924	1.2774 ± 0.3811	1.2536 ± 0.3541	1.3882 ± 0.3568	1.7961 ± 0.2447	1.7384 ± 0.1590	1.8336 ± 0.1729
	LF	1.7350 ± 0.3022	1.4802 ± 0.4897	1.8320 ± 0.2670	1.6676 ± 0.3762	1.7577 ± 0.4293	1.8350 ± 0.3688	2.2746 ± 0.5595	2.3016 ± 0.4267	2.4043 ± 0.5717
	RH	1.2373 ± 0.4344	1.2405 ± 0.4909	1.3374 ± 0.4075	1.1606 ± 0.4699	1.2169 ± 0.4010	1.3773 ± 0.3975	1.6508 ± 0.2319	1.6752 ± 0.2206	1.7462 ± 0.1701
	LH	1.3663 ± 0.5597	1.3192 ± 0.5764	1.5019 ± 0.4860	1.2006 ± 0.5685	1.4311 ± 0.4394	1.4948 ± 0.5597	1.7518 ± 0.3629	2.0599 ± 0.3883	2.0318 ± 0.2290
Stride Length (cm)	RF	12.39 ± 0.9811	11.96 ± 1.3442	11.70 ± 1.6773	14.36 ± 1.3836	13.48 ± 1.9654	13.52 ± 1.4637	15.01 ± 1.7778	14.67 ± 1.6709	14.49 ± 0.9688
	LF	11.99 ± 1.2654	11.84 ± 1.3881	11.76 ± 1.4112	14.21 ± 1.5454	13.44 ± 1.9384	13.47 ± 1.3791	15.08 ± 1.8664	14.7 ± 1.3930	14.35 ± 0.9595
	RH	11.98 ± 1.2782	11.55 ± 1.4830	11.71 ± 2.5334	13.70 ± 1.8413	12.9 ± 2.0038	12.78 ± 1.7880	15.01 ± 1.7778	14.87 ± 1.5619	14.23 ± 1.4000
	LH	11.94 ± 1.1227	11.7 ± 1.0637	11.55 ± 1.7125	12.87 ± 2.1434	12.97 ± 1.4998	12.87 ± 1.9861	14.92 ± 1.7537	14.86 ± 1.4147	14.24 ± 0.9531
Stand (s)	RF #	0.1694 ± 0.0364	0.1764 ± 0.0487	0.1959 ± 0.0460	0.1602 ± 0.0361	0.1642 ± 0.0282	0.1945 ± 0.0340	0.1873 ± 0.0404	0.2011 ± 0.0330	0.2252 ± 0.0304
	LF ##	0.1646 ± 0.0334	0.1728 ± 0.0528	0.2040 ± 0.0531 *	0.1523 ± 0.0316	0.1709 ± 0.0327	0.1918 ± 0.0379 *	0.1830 ± 0.0358	0.2098 ± 0.0344	0.2266 ± 0.0248 *
	RH #	0.1644 ± 0.0536	0.1924 ± 0.0619	0.2102 ± 0.0699	0.1516 ± 0.0507	0.1687 ± 0.0427	0.1848 ± 0.0438	0.1871 ± 0.0487	0.2178 ± 0.0458	0.2400 ± 0.0342 *
	LH #	0.1664 ± 0.0474	0.1863 ± 0.0487	0.2098 ± 0.0614	0.1427 ± 0.0488	0.1777 ± 0.0372	0.1884 ± 0.0416	0.1925 ± 0.0490	0.2164 ± 0.0434	0.2339 ± 0.0366
Swing (s)	RF	0.1418 ± 0.0189	0.1563 ± 0.0301	0.1565 ± 0.0430	0.1447 ± 0.0124	0.1508 ± 0.0333	0.1498 ± 0.0219	0.1351 ± 0.0141	0.1465 ± 0.0152	0.1537 ± 0.0208
	LF	0.1382 ± 0.0171	0.1527 ± 0.0254	0.1522 ± 0.0420	0.1464 ± 0.0251	0.1475 ± 0.0275	0.1518 ± 0.0262	0.1409 ± 0.0170	0.1415 ± 0.0119	0.1418 ± 0.0175
	RH	0.1342 ± 0.0322	0.1302 ± 0.0238	0.1407 ± 0.0470	0.1356 ± 0.0316	0.1288 ± 0.0217	0.1379 ± 0.0290	0.1270 ± 0.0140	0.1234 ± 0.0107	0.1280 ± 0.0141
	LH	0.1295 ± 0.0223	0.1365 ± 0.0257	0.1376 ± 0.0211	0.1299 ± 0.0268	0.1261 ± 0.0181	0.1362 ± 0.0220	0.1231 ± 0.0089	0.1249 ± 0.0110	0.1275 ± 0.0116
Step Cycle (s)	RF #	0.3132 ± 0.0422	0.3364 ± 0.0495	0.3546 ± 0.0684	0.3083 ± 0.0355	0.3169 ± 0.0366	0.3450 ± 0.0476	0.3290 ± 0.0436	0.3528 ± 0.0409	0.3808 ± 0.0327 *
	LF ##	0.3033 ± 0.0412	0.3305 ± 0.0547	0.3593 ± 0.0821 *	0.3022 ± 0.0392	0.3213 ± 0.0347	0.3483 ± 0.0491	0.3282 ± 0.0438	0.3607 ± 0.0388	0.3752 ± 0.0381
	RH #	0.2989 ± 0.0408	0.3220 ± 0.0597	0.3540 ± 0.0724 *	0.2842 ± 0.0398	0.2968 ± 0.0543	0.3238 ± 0.0336	0.3152 ± 0.0508	0.3285 ± 0.0301	0.3678 ± 0.0377 *
	LH ##	0.2950 ± 0.0406	0.3205 ± 0.0477	0.3484 ± 0.0716 *	0.2716 ± 0.0489	0.3039 ± 0.0490	0.3267 ± 0.0482 *	0.3158 ± 0.0504	0.3464 ± 0.0515	0.3607 ± 0.0394
Duty Cycle	RF	53.77 ± 5.3495	52.15 ± 7.7555	55.82 ± 5.5822	52.09 ± 6.9684	52.45 ± 6.2253	55.5 ± 6.4299	57.93 ± 5.0189	56.92 ± 4.2817	59.04 ± 4.1547
	LF #	53.32 ± 4.4703	52.16 ± 7.9826	57.41 ± 5.2408	50.67 ± 6.2752	53.9 ± 5.9094	55.84 ± 5.3103	56.24 ± 4.1276	59.12 ± 4.2703	60.68 ± 2.6772
	RH	53.79 ± 11.8246	57.21 ± 8.0929	58.38 ± 10.3907	50.85 ± 12.3716	55.06 ± 4.9810	56.73 ± 7.6482	58.18 ± 6.1064	60.92 ± 4.1938	63.21 ± 3.0587
	LH	54.5 ± 9.7923	55.2 ± 7.9373	58.2 ± 8.3837	51.25 ± 10.0978	56.5 ± 5.2316	56.12 ± 7.8403	59.18 ± 6.0951	61.2 ± 5.0433	63.09 ± 2.6653
Swing Speed (cm/s)	RF	96.88 ± 21.7533	85.97 ± 22.1969	84.08 ± 19.1661	103.1 ± 15.7509	96.65 ± 26.4800	94.96 ± 16.2947	117.5 ± 24.1208	107.45 ± 13.6460	100.5 ± 12.7093
	LF	94.85 ± 15.3659	83.96 ± 18.9664	87.82 ± 18.4589	108.0 ± 23.8727	98.02 ± 23.3002	96.48 ± 15.6744	118.01 ± 19.7833	119.3 ± 41.4592	110.3 ± 26.2080
	RH	95.67 ± 22.0123	92.75 ± 24.4179	90.74 ± 21.4989	105.1 ± 18.9117	103.0 ± 25.7258	102.3 ± 20.6580	120.2 ± 21.1235	122.2 ± 15.9922	113.8 ± 14.2369
	LH	95.43 ± 16.7071	90.63 ± 22.3561	88.65 ± 18.9895	99.55 ± 26.7360	106.27 ± 21.8013	100.2 ± 26.0638	122.9 ± 16.4659	120.9 ± 15.7921	115.7 ± 10.5835

Table values are Mean ± SD, \* Significant difference when compared to Sham, # Significant group difference in a 2-way ANOVA (Sham vs. Neg. Control vs. siRNA GR).