

Supplementary Material

Effect of galvanic vestibular stimulation applied at the onset of stance on muscle responses and gait cycle duration in healthy individuals.

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Supplementary Tables

Right Cathode Configuration - 1T									
	R SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001				148	45	141.63	267	35	151.89
PP 003	55	46	53.43	106	19	60.19	189	13	167.14
pp 004				116	14	166.76	185	24	254.83
pp 007							278	127	215.29
pp 008							168	34	150.83
pp 009							155	34	144.89
pp010	71	18	67.98	112	22	62.65	227	27	151.48
pp 013							195	37	146.36
pp014				96	23	58.02	224	20	132.72
Mean	63	32	60.71	115.6	24.6	97.85	209.8	39	168.38
SEM	8	14	7.28	8.8	5.4	23.35	14.2	11.3	13.36

Right Cathode Configuration -1T									
ID	L SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	67	62	258.40						
PP 003	66	49	238.10						
pp 004	56	15	227.86				164	19	58.95
pp 005	77	35	195.80						
pp 007	67	8	142.18						
pp 008	50	21	72.91	103	29	139.56			
pp010				121	16	137.07			
pp 013				93	52	225.83			
Mean	63.8	31.7	189.21	105.7	32.3	167.49	164	19	58.95
SEM	3.9	8.5	28.55	8.2	10.5	29.18			

Right Cathode Configuration -1T									
ID	R TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	87	58	149.11				234	23	146.74
pp 004	51	36	73.62				184	50	222.22
pp 005				111	59	184.60			
pp 008	66	22	46.18	139	28	46.83	193	28	190.63
pp 009	62	22	73.26				153	18	129.74
pp010							98	40	161.56
pp 013	71	33	64.04	139	108	45.66	271	20	385.56
pp014	80	35	59.54				194	37	174.39
Mean	69.5	34.3	77.63	129.7	92.4	92.36	189.6	30.9	201.55
SEM	5.3	5.9	14.88	9.3	23.3	46.12	20.9	4.5	32.70

Right Cathode Configuration -1T									
ID	L TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	65	50	202.74	147	19	146.86			
PP 003				125	22	135.39			
pp 004				107	14	143.65	184	39	171.03
pp 005	83	20	190.09				223	18	149.24
pp 007	65	10	157.00						
pp 008	85	30	60.10	115	31	150.82	147	17	133.75
pp 009				136	25	138.04			
pp 013				93	31	184.71	170	19	129.03
pp014							129	15	163.97
Mean	74.5	27.5	152.48	120.5	23.7	149.91	170.6	21.6	149.40
SEM	5.5	8.5	32.27	8.02	2.7	7.33	16.1	4.4	8.19

Right Cathode Configuration -1.5T									
ID	R SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001							185	19	147.25
PP 003	72	40	59.29	137	27	148.17			
pp 005							193	25	154.64
pp 007	87	24	65.01	137	17	56.59	261	100	205.59
pp 009							166	31	158.79
pp010				0.123	29	60.75			
pp 013							148	14	454.81
pp014	77	20	70.06				154	17	147.90
PP015				97	34	54.58	182	17	147.95
Mean	78.7	28	64.79	92.8	26.7	80.02	184.1	31.9	202.42
SEM	4.4	6.1	3.11	32.3	3.6	22.75	14.3	11.6	42.78

Right Cathode Configuration -1.5T									
ID	L SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	75	60	344.03						
PP 003	47	72	224.83						
pp 004	60	14	71.31						
pp 005	68	65	253.17						
pp 008				95	21	145.93			
pp 009				109	15	143.93			
pp 013	70	64	445.24						
pp015	63	10	166.67						
Mean	63.8	47.5	250.88	102	18	144.93			
SEM	4	11.3	53.69	7	3	1			

Right Cathode Configuration -1.5T									
ID	R TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001				90	47	173.33			
pp 004				107	14	130.83			
pp 005				101	39	165.54			
pp 007				113	17	139.66	280	22	184.25
pp 008				90	48	192.15	143	237	417.97
pp 009									
pp010				110	30	194.57	160	28	162.05
pp 013				143	20	454.39	182	13	459.48
pp014							231	18	156.02
pp015	75	29	156.8						
Mean	75	29	156.8	107.7	30.7	207.21	199.2	63.6	275.95
SEM				6.8	5.4	42.19	25.03	43.42	66.94

Right Cathode Configuration -1.5T									
ID	L TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	73	29	176.52						
pp 004	70	10	154.04				151	10	82.08
pp 005	79	29	154.09						
pp 007	79	12	159.67						
pp010	81	34	63.48				186	19	82.31
pp 013				141	20	454.08	202	22	278.71
pp014	67	11	64.25	87	17	127.64			
pp015				137	10	74.72			
Mean	74.8	20.8	128.68	121.7	15.7	218.81	179.7	17	147.70
SEM	2.3	4.5	20.77	17.4	3	118.62	15.1	3.6	65.51

Left Cathode Configuration -1T									
ID	R SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001							166	16	68.79
PP 003				103	31	65.23	170	49	187.24
pp 007	68	54	184.80						
pp 012	85	13	64.88				218	20	68.69
pp 013	76	76	171.81						
pp 014							205	31	68.21
pp015				127	12	155.56	228	33	65.62
Mean	76.3	47.7	140.50	115	21.5	110.4	197.4	29.8	91.71
SEM	4.9	18.5	37.99	12	9.5	45.17	12.6	5.8	23.89

Left Cathode Configuration -1T									
ID	L SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	76	47	41.68						
Pp 004				109	31	128.34			
PP 003	81	10	73.90	98	29	229.57			
pp005	45	93	52.24						
pp 007	55	49	202.28						
pp 013	76	35	53.53						
Mean	66.6	46.8	84.73	103.5	30	178.96			
SEM	7	13.5	29.85	5.5	1	50.62			

Left Cathode Configuration -1T									
ID	R TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001	49	20	136.06	93	21	77.74	160	69	155.84
Pp 004				148	35	161.09			
pp 007	86	30	140.60				219	15	164.38
pp 012	89	15	201.21	116	43	239.09	178	51	286.97
pp 013	63	15	124.36	111	43	151.73	169	31	157.84
pp 014				111	27	151.20	162	11	59.17
PP 015							155	21	154.38
Mean	71.8	20	150.56	115.8	33.8	156.17	173.8	33	163.10
SEM	9.6	3.5	17.23	9	4.4	25.59	9.6	9.3	29.61

Left Cathode Configuration -1T									
ID	L TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001				135	23	171.56	235	19	67.15
PP 003				110	33	64.08			
pp005				121	31	155.75	226	19	73.02
pp 007	63	29	117.16				155	34	71.98
pp 012	73	17	142.12	140	11	164.60	160	18	68.77
pp 013				105	37	177.42	163	22	66.79
pp 014	60	17	66.55						
PP 015	84	16	75.32						
Mean	70.	19.75	100.29	122.2	27	146.68	187.8	22.4	69.54
SEM	5.43	3.6	20.54	6.8	4.6	20.96	17.4	3	1.26

Left Cathode Configuration -1.5 T									
ID	R SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 003	69	53	49.96	141	37	139.67	218	10	140.19
pp005				120	34	141.08	211	70	66.73
pp 007				125	74	162.79	230	14	64.78
pp 013	65	44	150.86	119	29	173.10	226	33	75.50
pp 014							216	19	72.65
PP 015	80	68	147.35						
Mean	71.3	55	116.06	0.13	0.04	154.16	220.2	29.2	83.97
SEM	4.5	7	33.06	0.01	0.01	8.24	3.4	10.9	14.19

Left Cathode Configuration -1.5T									
ID	L SOL								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 003	74	52	202.50						
pp005				131	50	156.55	265	42	177.07
pp 013	64	46	41.38	130	17	133.75			
pp 014	62	21	69.78						
PP 015	58	19	55.53						
Mean	64.5	34.5	92.30	130.5	33.5	145.15	265	42	177.07
SEM	3.4	8.5	37.19	0.5	16.5	11.40			

Left Cathode Configuration - 1.5T									
ID	R TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001				107	46	72.63	183	148	200.10
pp 004									
pp005	86	13	100	143	27	70.19	192	141	196.55
pp 007							202	24	157.43
pp 013	82	17	71.39	104	125	183.03			
pp 014							164	21	165.71
PP 015	75	11	62.93	109	61	179.64	180	20	154.57
Mean	81	13.7	67.16	115.8	64.8	126.37	184.2	70.8	174.87
SEM	3.2	1.8	4.23	9.1	21.3	31.74	6.3	30.1	9.76

Left Cathode Configuration - 1.5T									
ID	L TA								
	SLR			MLR			LLR		
	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)	Latency (ms)	Duration (ms)	Amplitude (%control)
PP 001				0.141	0.022	175.45			
pp005				0.099	0.063	184.50	181	66	71.57
pp 007	84	27	153.323	0.116	0.014	70.26			
pp 013	50	32	66.6547	0.103	0.038	218.22	174	25	76.47
pp 014				0.120	0.011	79.58	174	14	79.10
PP 015	75	21	59.1867	0.118	0.011	76.75	213	12	76.22
Mean	69.7	26.7	93.05	0.12	0.03	134.13	185.5	29.3	75.84
SEM	10.2	3.2	30.21	0.01	0.01	26.87	9.3	12.6	1.57

Right Cathode Configuration -1T			
Cycle duration (ms)			
ID	Ctrl	Stim	Next
PP001	1320	1317	1306
PP003	1184	1177	1171
PP004	1144	1175	1126
PP005	1233	1241	1225
PP007	1087	1126	1074
PP008	1192	1205	1169
PP009	1177	1168	1168
PP010	1232	1235	1203
PP013	1122	1111	1070
PP014	1102	1115	1072
PP015	1082	1100	1069
mean	1171	1179	1150
SEM	22	20	23

Right Cathode Configuration -1.5T			
Cycle duration (ms)			
ID	Ctrl	Stim	Next
PP001	1320	1339	1315
PP003	1181	1196	1169
PP004	1163	1178	1137
PP005	1248	1263	1239
PP007	1061	1077	1046
PP008	1178	1178	1166
PP009	1166	1177	1164
PP010	1268	1270	1223
PP013	1078	1071	1055
PP014	1107	1106	1085
PP015	1102	1105	1082
mean	1170	1178	1153
SEM	25	26	25

Left Cathode Configuration -1T			
Cycle duration (ms)			
ID	Ctrl	Stim	Next
PP001	1277	1259	1275
PP003	1200	1215	1174
PP004	1156	1146	1127
PP005	1248	1248	1255
PP007	1034	1033	1048
PP012	1184	1132	1147
PP013	1096	1065	1090
PP014	1114	1101	1123
PP015	1135	1113	1143
mean	1160	1146	1153
SEM	25	26	24

Left Cathode Configuration -1.5T			
Cycle duration (ms)			
ID	Ctrl	Stim	Next
PP001	1262	1228	1249
PP003	1204	1218	1183
PP005	1251	1254	1267
PP007	1059	1052	1060
PP013	1099	1063	1093
PP014	1111	1077	1106
PP015	1123	1123	1136
mean	1159	1145	1156
SEM	30	33	30