

Dual Task	PD Control (no FOG) (n=17)			Freezers (FOG) (n=16)			p value					
	Median (IQR)	Mean Difference Control-OFF	Effect Size	OFF		Effect Size	ON		Control vs OFF	Control vs ON	ON vs OFF (paired)	
		95% CI		Median (IQR)	Mean Difference Control-ON		95% CI	Median (IQR)				Mean Difference OFF-ON
Velocity (m/s)	108.9 (95.7 - 120.3)	39.9 (21.0 - 58.8)	1.53	74.0 (52.8 - 89.9)	12.1 (-3.1 - 27.2)	0.57	95.0 (85.2 - 114.3)	-28.2 (-38.9 - -17.5)	1.46	<0.001	0.19	<0.001
Step length (R & L) (cm)	59.0 (52.4 - 68.5)	20.9 (10.8 - 31.1)	1.49	39.5 (29.6 - 50.1)	5.6 (-3.6 - 14.9)	0.43	51.9 (48.8 - 58.4)	-15.6 (-21.2 - -10.0)	1.55	<0.01	0.14	<0.001
Stride length (R & L) (cm)	117.9 (102.5 - 136.7)	41.3 (21.0 - 61.7)	1.47	79.2 (59.2 - 100.2)	10.9 (-7.7 - 29.6)	0.42	104.1 (96.1 - 117.7)	-31.3 (-42.6 - -20.0)	1.54	<0.01	0.20	<0.001
Step CV	4.5 (3.3 - 5.9)	-13.1 (-26.6 - 0.3)	0.77	7.4 (5.4 - 15.0)	-2.1 (-4.1 - 0.0)	0.81	6.0 (5.1 - 8.7)	11.0 (-2.3 - 24.3)	0.50	<0.01	0.08	<0.01
Stride CV	3.2 (2.4 - 5.0)	-10.8 (-21.8 - 0.3)	0.77	5.3 (4.2 - 13.1)	-1.4 (-3.2 - 0.5)	0.59	3.9 (3.2 - 5.6)	9.4 (-1.3 - 20.2)	0.53	0.01	0.25	<0.01
Time to Turn (s)	5.0 (4.3 - 5.7)	-13.6 (-25.4 - -1.8)	0.83	8.2 (6.2 - 19.8)	-1.2 (-2.4 - 0.0)	0.71	5.5 (5.0 - 6.5)	12.4 (-0.3 - 25.0)	0.54	<0.01	0.08	<0.01
Single Task												
Velocity (m/s)	128.2 (114.0 - 137.7)	36.3 (16.3 - 56.4)	1.29	94.5 (67.4 - 106.9)	12.8 (-2.8 - 28.5)	0.58	111.2 (100.7 - 131.8)	-23.5 (-35.0 - 12.0)	1.09	<0.01	0.10	<0.001
Step length (R & L) (cm)	67.4 (58.6 - 73.9)	16.2 (5.3 - 27.1)	1.06	51.3 (39.1 - 57.9)	4.6 (-4.9 - 14.0)	0.34	61.2 (54.6 - 64.8)	-11.6 (-16.0 - 7.3)	1.43	<0.01	0.40	<0.001
Stride length R & L (cm)	135.3 (117.5 - 148.1)	31.3 (9.6 - 53.1)	1.02	103.0 (78.4 - 116.1)	8.5 (-10.2 - 27.1)	0.32	122.7 (109.4 - 130.3)	-22.9 (-31.8 - 14.0)	1.37	<0.01	0.35	<0.001
Step CV	3.9 (2.8 - 4.2)	-8.1 (-16.5 - 0.4)	0.76	6.4 (5.4 - 8.6)	-0.8 (-2.1 - 0.5)	0.46	4.0 (3.7 - 4.7)	7.3 (-0.9 - 15.5)	0.54	<0.01	0.33	<0.001
Stride CV	2.8 (2.1 - 3.3)	-7.2 (-15.1 - 0.7)	0.73	5.0 (3.7 - 7.8)	-0.6 (-1.6 - 0.4)	0.50	3.1 (2.7 - 3.6)	6.6 (-1.3 - 14.5)	0.51	<0.01	0.26	<0.001
Time to Turn (s)	4.4 (3.6 - 4.8)	-6.9 (-12.5 - -1.3)	0.90	6.1 (4.8 - 9.9)	-0.9 (-2.0 - 0.3)	0.54	4.9 (4.2 - 5.4)	6.0 (0.6 - 11.5)	0.61	<0.01	0.10	<0.01
Interference												
Velocity (m/s)	-15.3 (-20.1 - 8.9)	5.2 (-6.4 - 16.9)	0.32	-14.8 (-36.9 - 10.1)	-0.8 (-8.1 - 6.6)	0.07	-13.2 (-24.5 - 8.1)	-5.3 (-14.6 - 4.1)	0.31	0.74	0.84	0.45
Step length (R & L) (cm)	-5.4 (-7.1 - 3.8)	5.9 (1.3 - 10.6)	0.93	-8.6 (-21.5 - 6.3)	1.0 (-2.1 - 4.2)	0.24	-7.2 (-10.9 - 4.1)	-4.4 (-8.4 - 0.3)	0.60	<0.05	0.26	0.06
Stride length R & L (cm)	-11.0 (-14.1 - 8.9)	12.7 (3.8 - 21.7)	1.03	-17.3 (-43.6 - 12.8)	2.5 (-3.3 - 8.3)	0.30	-14.0 (-21.4 - 7.1)	-9.2 (-17.6 - 0.9)	0.61	<0.01	0.28	0.06
Step CV	0.7 (-0.6 - 2.7)	-5.0 (-14.1 - 4.0)	0.44	0.6 (-0.1 - 1.6)	-1.3 (-2.7 - 0.0)	0.79	2.1 (1.2 - 3.2)	3.7 (-5.8 - 13.2)	0.24	0.65	0.06	0.74
Stride CV	0.9 (-0.9 - 1.6)	-3.6 (-10.5 - 3.4)	0.41	0.7 (-0.3 - 1.2)	-0.7 (-1.9 - 0.5)	0.48	1.1 (0.4 - 1.9)	2.8 (-4.5 - 10.2)	0.23	0.94	0.35	0.95
Time to Turn (s)	0.6 (0.2 - 0.9)	-6.7 (-13.6 - 0.2)	0.70	2.1 (0.3 - 5.6)	-0.3 (-1.0 - 0.3)	0.36	0.5 (0.2 - 1.3)	6.3 (-1.6 - 14.2)	0.44	0.08	0.58	0.17