

Appendix, Table 1 Differences in alpha SP mean values of resting-state normalised mean values of alpha SP during WL and normalised mean values of alpha SP during NWL between the TD and SLI groups

Electrodes	Group	Rest mean (95%CI)	t(51) value	p value	Word Normalisation mean (95%CI)	t(48) value	p value	Non-word Normalisation mean (95%CI)	T(48) value	p value
Fp1	SLI	1.4(1.07-1.74)	3.474	.001	-.43(-.83- -.02)	3.086	.003	-.51(-.80- -.21)	3.403	.001
	TD	2.54(1.96-3.12)			.22(.05-.38)			-.11 (-.12-.35)		
Fp2	SLI	-1.41(1.08-1.73)	3.304	.002	-.56(-.99- -.12)	2.584	.013	-.68(-1.03- -.32)	3.230	.002
	TD	2.33(1.87-2.8)			.04(-.15-.23)			-.01(-.24-.2)		
F3	SLI	2.62(2.01-3.23)	2.044	.046	-.09(-.31-.13)	.826	.413	-.10(-.3-.09)	1.686	.098
	TD	3.75(2.86-4.64)			.03(-.20-.27)			.11(-.07-.29)		
F4	SLI	2.67(2.12-3.22)	2.035	.048	-.14(-.40-0.12)	.689	.494	-.12(-.33-.07)	.822	.415
	TD	3.79(2.81-4.76)			-.02(-.26-.21)			.01(-.27-.31)		
C3	SLI	3.6(1.83-5.37))	.718	.476	.06(-.08-.21)	.928	.358	.08(-.07-.25)	-.569	.572
	TD	4.64(3.3-5.98))			.18(-.03-.40)			-.06(-.59-0.46)		
C4	SLI	3.86(2.36-5.36)	1.373	.176	-.11(-.29-.07)	.746	.459	-.01(-.17-.16)	.389	.699
	TD	5.24(3.66-6.82)			-.01(-.23-.22)			.05(-.2-.31)		
P3	SLI	3.58(2.64-4.52)	3.418	.002	-.10 (-.38-.17)	2.328	.024	-.08(-.28-.12)	2.773	.008
	TD	7.43(5.27-9.59)			.25(.10-.41)			.29 (.1-.48)		

P4	SLI	3.85(2.72-4.97))	3.152	.003	-0.01(-.22-.20)	.161	.873	-0.03(-.20-.12)	2.022	.049
	TD	8.28(5.72-10.85)			.03(-.51-.58)			.22(.01-.44)		
O1	SLI	9.87(5.53-14.21)	2.145	.037	-0.01(-.38-.37)	-.287	.776	-0.18(-.7-.33)	.528	.600
	TD	18.1(12.41-23.79)			-0.14(-1.02-.73)			.04(-.69-.78)		
O2	SLI	7.77(5.39-10.16)	3.108	.004	-0.36(-.92-.18)	2.569	.013	-0.46 (-1.14-.21)	1.407	.166
	TD	24.58(14.13-35.02)			.37(.15-.58)			.1(-.39-.6)		
F7	SLI	1.96(1.45-2.47)	2.376	.021	-0.75 (-1.26- -.25)	2.768	.008	-0.76(-1.62-.1)	1.492	.142
	TD	2.95(2.29-3.6)			.01(-.25-.27)			-0.09(-.40-.21)		
F8	SLI	2.18(1.68-2.68)	2.095	.041	-0.34(-.67--.01)	1.313	.195	-0.31(-.56- -.06)	1.560	.125
	TD	3.14(2.39-3.9)			-0.05 (-.34-.23)			-0.03(-.3-.23)		
T3	SLI	1.62(1.2-2.04)	2.655	.011	-0.11 (-.35-.12)	2.549	.014	-0.05(-.24-.13)	2.072	.044
	TD	2.87(2.08-3.67)			.26 (.07-.44)			.21(.02-.4)		
T4	SLI	2.21(1.62-2.81)	1.904	.063	.03(-.16-.23)	.522	.604	-0.09(-.40-.21)	1.586	.119
	TD	3.63(2.2-5.06)			.11(-.11-.34)			.21(-.03-.46)		
T5	SLI	4.31(3.32-5.31)	3.264	.002	.03(-.13-.20)	1.849	.071	-0.04(-.21-.13)	3.356	.002
	TD	8.82(6.28-11.35)			.25 (.07-.42)			.34(.18-0.49)		
T6	SLI	5.4(3.49-7.31)	2.620	.012	-0.08(-.35-.18)	1.916	.061	-0.18(-.44-.07)	2.786	.008
	TD	10.21(6.98-13.44)			.27(-.01-.56)			.28(.04-.52)		

Fz	SLI	2.48(1.9-3.07)	2.588	.013	.07(-.05-.19)	.394	.695	-.05(-.25-.13)	2.122	.039
	TD	3.87(3.03-4.71)			.11(-.07-.31)			.20(.03-.38)		
Cz	SLI	4.28(2.87-5.7)	1.257	.214	.06 (-.08-.20)	1.479	.146	.01(-0.13-.14)	1.170	.248
	TD	5.59(4.11-7.07)			.20(.05-0.35)			.11(-0.02-.25)		
Pz	SLI	3.69(2.87-4.5)	3.664	.001	.07(-.08-.31)	1.579	.121	-.24(-.46- -.02)	3.583	.001
	TD	7.52(5.47-9.57)			.30(.06-.46)			.24(.07-.42)		

Note: TD: typical development; SLI: specific language impairment; *p*: exact *p* value is present (based on Student's *t* test); CI: Confidence interval was set to 95%.