

Supplemental Material S1

	Visual Accuracy			Auditory Accuracy		
<i>Fixed Effects</i>	b	SE	z-value	b	SE	z-value
(Intercept)	6.77	1.31	5.18	6.03	0.81	7.41
IN vs. LP & HP	-1.87	1.45	-1.29	0.31	0.85	0.36
LP vs. HP	2.00	0.87	2.30	3.12	1.05	2.98
<i>Random Effects</i>	Var.	SD		Var.	SD	
Target (Intercept)	10.60	3.26		7.05	2.66	
Participant (Intercept)	0.34	0.58		0.16	0.40	
Participant: IN vs. LP & HP	4.10	2.02		2.64	1.63	
Participant: LP vs. HP	0.25	0.5		0.13	0.36	
	Visual Response Times			Auditory Response Times		
<i>Fixed Effects</i>	b	SE	t-value	b	SE	t-value
(Intercept)	6.61	0.06	119.37	6.92	0.035	198.033
LP vs. HP & IN	-0.10	0.027	-3.73	-0.15	0.023	-6.29
HP vs. IN	-0.17	0.022	-7.80	-0.15	0.024	-6.09
<i>Random Effects</i>	Var.	SD		Var.	SD	
Target (Intercept)	0.0061	0.078		0.011	0.11	
Participant (Intercept)	0.048	0.22		0.018	0.13	
Participant: LP vs. HP & IN	0.0061	0.078		0.002	0.049	
Participant: HP vs. IN	0.00041	0.020		0.0017	0.042	
Residuals	0.081	0.28		0.053	0.23	

S1.1 Experiment 1: Mixed effects models of accuracy and response times in the Visual and Auditory modalities.

	Visual N400			Auditory N400					
<i>Fixed Effects</i>	b	SE	t-value	b	SE	t-value			
(Intercept)	2.42	1.18	2.05	-2.95	0.84	-3.53			
IN vs. LP & HP	4.43	0.54	8.21	4.03	0.55	7.38			
LP vs. HP	1.10	0.61	1.82	2.00	0.66	3.04			
<i>Random Effects</i>	Var.	SD		Var.	SD				
Participant (Intercept)	19.50	4.42		10.76	3.28				
Participant: LP & HP vs. IN	3.98	2.00		4.17	2.04				
Participant: LP vs. HP	5.18	2.28		6.39	2.53				
Electrode (Intercept)	1.36	1.17		0.20	0.44				
Electrode: IN vs. LP & HP	0.13	0.36		0.18	0.43				
Electrode: LP vs. HP	0.07	0.27		0.12	0.35				
Residuals	2.20	1.48		1.13	1.06				
	Visual FP			Auditory FP (frontal)			Auditory FP (prefrontal)		
<i>Fixed Effects</i>	b	SE	t-value	b	SE	t-value	b	SE	t-value
(Intercept)	-3.93	1.25	-3.15	-5.52	1.247	-4.43	-7.68	1.39	-5.53
LP vs. HP & IN	-1.36	0.49	-2.80	-2.37	0.64	-3.71	-2.32	0.76	-3.06

HP vs. IN	0.73	0.84	0.87	2.69	0.74	3.64	1.95	0.96	2.03
<i>Random Effects</i>	Var.	SD		Var.	SD		Var.	SD	
Participant (Intercept)	15.80	3.97		14.93	3.86		15.79	3.97	
Participant: LP vs. HP & IN	2.07	1.44		5.27	2.30		6.44	2.54	
Participant: HP vs. IN	8.87	2.98		6.84	2.61		11.69	3.42	
Electrode (Intercept)	2.77	1.66		6.74	2.60		4.63	2.15	
Electrode: LP vs. HP & IN	0.14	0.37		0.41	0.64		0.50	0.71	
Electrode: HP vs. IN	0.23	0.47		0.76	0.87		0.50	0.70	
Residuals	4.22	2.05		4.63	2.15		3.87	1.97	

S1.2 Experiment 1: Mixed effects models of mean amplitude in N400 window and

Frontal Positivity window in the visual and auditory modalities.