Results

Repeated Measures ANOVA

Within Subjects Effects

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_{p}	ω^2
ROI	Greenhouse- Geisser	0.150 a	4.701 a	0.032 a	38.644	a < .001	a 0.571	0.314
Residual	Greenhouse- Geisser	0.113	136.332	8.253e -4				
Condition	Greenhouse- Geisser	1.460	1.000	1.460	216.213	< .001	0.882	0.782
Residual	Greenhouse- Geisser	0.196	29.000	0.007				
ROI * Condition	Greenhouse- Geisser	0.097 a	4.701 a	0.021 a	25.012	a < .001	a 0.463	0.226
Residual	Greenhouse- Geisser	0.113	136.332	8.253e -4				

Note. Type III Sum of Squares

Between Subjects Effects

	Sum of Squares	df N	Mean Square F p η² _p	ω^2
Residual	0.196	29	0.007	

Note. Type III Sum of Squares

Post Hoc Tests

Post Hoc Comparisons - ROI

1 051 1100	comparisons - ROI					
	95	5% CI of Mea	n Difference	2		
	Mean Difference	Lower	Upper	SE	t	Cohen's d p holm
ACC ATL	0.036	0.022	0.051	0.004	8.773	1.602 < .001
IFG	0.009	-0.005	0.023	0.004	2.336	0.426 0.194
Ins	0.017	0.001	0.033	0.004	3.801	0.694 0.010
LTL	-0.011	-0.024	0.003	0.004	-2.731	-0.499 0.117
PCC	0.024	0.009	0.040	0.004	5.441	0.993 < .001
Prec	0.005	-0.007	0.017	0.003	1.466	0.268 0.614
V1	0.046	0.028	0.063	0.005	9.392	1.715 < .001
aPFC	0.013	0.002	0.024	0.003	4.277	0.781 0.003
ATL IFG	-0.027	-0.043	-0.011	0.005	-5.977	-1.091 < .001
Ins	-0.019	-0.033	-0.006	0.004	-5.130	-0.937 < .001
LTL	-0.047	-0.065	-0.029	0.005	-9.376	-1.712 < .001
PCC	-0.012	-0.026	0.002	0.004	-3.029	-0.553 0.061
Prec	-0.031	-0.045	-0.017	0.004	-7.877	-1.438 < .001
V1	0.009	-0.004	0.023	0.004	2.407	0.440 0.194
aPFC	-0.023	-0.038	-0.008	0.004	-5.431	-0.992 < .001

^a Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).

Post Hoc Comparisons - ROI

	95% CI of Mean Difference										
		Mean Difference	Lower	Upper	SE	t	Cohen's d p holm				
IFG	Ins	0.008	-0.004	0.019	0.003	2.384	0.435 0.194				
	LTL	-0.020	-0.032	-0.008	0.003	-5.901	-1.077 < .001				
	PCC	0.015	0.002	0.028	0.004	4.081	0.745 0.005				
	Prec	-0.004	-0.017	0.009	0.004	-1.143	-0.209 0.718				
	V1	0.036	0.022	0.051	0.004	8.745	1.597 < .001				
	aPFC	0.004	-0.008	0.016	0.003	1.201	0.219 0.718				
Ins	LTL	-0.027	-0.044	-0.011	0.005	-5.991	-1.094 < .001				
	PCC	0.008	-0.003	0.018	0.003	2.429	0.443 0.194				
	Prec	-0.012	-0.025	0.001	0.004	-3.247	-0.593 0.038				
	V1	0.029	0.020	0.038	0.003	11.305	2.064 < .001				
	aPFC	-0.004	-0.019	0.012	0.005	-0.787	-0.144 0.718				
LTL	PCC	0.035	0.019	0.051	0.005	7.763	1.417 < .001				
	Prec	0.016	0.004	0.027	0.003	4.708	0.860 < .001				
	V1	0.056	0.038	0.075	0.005	10.648	1.944 < .001				
	aPFC	0.024	0.011	0.037	0.004	6.361	1.161 < .001				
PCC	Prec	-0.019	-0.033	-0.006	0.004	-5.229	-0.955 < .001				
	V1	0.021	0.009	0.034	0.004	5.912	1.079 < .001				
	aPFC	-0.011	-0.028	0.006	0.005	-2.284	-0.417 0.194				
Prec	V1	0.041	0.027	0.054	0.004	10.416	1.902 < .001				
	aPFC	0.008	-0.003	0.020	0.003	2.515	0.459 0.177				
V1	aPFC	-0.032	-0.051	-0.014	0.005	-6.266	-1.144 < .001				

Note. Cohen's d does not correct for multiple comparisons.

Note. Bonferroni adjusted confidence intervals.

Post Hoc Comparisons - Condition

		e				
	Mean Difference	Lower	Upper	SE	t	Cohen's d p holm
Chance Estimate	-0.104	-0.118	-0.090	0.007 -	14.704	-2.685 < .001

Note. Cohen's d does not correct for multiple comparisons.

Note. Bonferroni adjusted confidence intervals.

Post Hoc Comparisons - ROI ★ Condition

				95% CI of Mean Difference				
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p holm
ACC,Chance	ACC,Estimate	-0.129	-0.163	-0.096	0.009	- 14.549	-2.656	< .001
	ATL,Chance	0.015	-0.006	0.035	0.006	2.550	0.466	0.455
	ATL,Estimate	-0.071	-0.104	-0.037	0.009	-7.982	-1.457	< .001
	IFG,Chance	0.003	-0.018	0.023	0.006	0.459	0.084	1.000
	IFG,Estimate	-0.113	-0.147	-0.080	0.009	12.770	-2.331	< .001
	Ins,Chance	-0.002	-0.022	0.019	0.006	-0.274	-0.050	1.000
	Ins,Estimate	-0.094	-0.127	-0.060	0.009	10.564	-1.929	< .001

1030 1100 001	nparisons - KOI	Condition	95% CI of Mean Difference					
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p holm
	LTL,Chance	-0.005	-0.026	0.015	0.006	-0.940	-0.172	1.000
	LTL,Estimate	-0.145	-0.178	-0.111	0.009	16.319	-2.979	< .001
	PCC,Chance	0.004	-0.016		0.006	0.780		1.000
	PCC,Estimate	-0.085	-0.118	-0.051		-9.545	-1.743	
	Prec,Chance	0.003	-0.018	0.023	0.006	0.452	0.083	1.000
	Prec,Estimate	-0.122	-0.155	-0.088		13.707	-2.503	
	V1,Chance	0.005	-0.016		0.006	0.822		1.000
	V1,Estimate	-0.042	-0.076	-0.009		-4.787	-0.874	
	aPFC,Chance	0.006	-0.015	0.026	0.006	0.967	0.177	1.000
	aPFC,Estimate	-0.108	-0.141	-0.074		12.157	-2.220	< .001
ACC,Estimate	e ATL,Chance	0.144	0.110			16.183		< .001
	ATL,Estimate	0.058	0.038			10.249		< .001
	IFG,Chance	0.132	0.098			14.843		< .001
	IFG,Estimate	0.016	-0.005		0.006	2.776		0.246
	Ins,Chance	0.128	0.094			14.373		< .001
	Ins,Estimate	0.035	0.015		0.006	6.220		< .001
	LTL,Chance	0.124	0.090			13.947		< .001
	LTL,Estimate	-0.016	-0.036			-2.763		0.250
	PCC, Chance	0.134	0.100			15.049		< .001
	PCC,Estimate	0.044	0.024 0.098		0.006	7.810 14.839		< .001 < .001
	Prec,Chance Prec,Estimate	0.132 0.007	-0.013		0.009	1.314		1.000
	V1,Chance	0.007	0.100			15.075		< .001
	V1,Estimate	0.134	0.100			15.236		< .001
	aPFC,Chance	0.135	0.101			15.168		< .001
	aPFC,Estimate	0.021	6.394e -4		0.006	3.733		0.010
ATL,Chance	ATL,Estimate	-0.085	-0.119			-9.616	-1.756	
,	IFG,Chance	-0.012	-0.032			-2.091	-0.382	
	IFG,Estimate	-0.128	-0.161	-0.094	0.009	- 14.404	-2.630	< .001
	Ins,Chance	-0.016	-0.037	0.005	0.006	-2.824	-0.516	0.218
	Ins,Estimate	-0.108	-0.142	-0.075	0.009	12.198	-2.227	< .001
	LTL,Chance	-0.020	-0.040	7.405e -4	0.006	-3.490	-0.637	0.024
	LTL,Estimate	-0.159	-0.193	-0.126	0.009	17.953	-3.278	< .001
	PCC,Chance	-0.010	-0.031	0.011	0.006	-1.770	-0.323	1.000
	PCC,Estimate	-0.099	-0.133	-0.066	0.009	11.179	-2.041	< .001
	Prec,Chance	-0.012	-0.033	0.009	0.006	-2.098	-0.383	1.000
	Prec,Estimate	-0.136	-0.170	-0.103	0.009	15.341	-2.801	< .001

1030 1100 0011	nparisons - KOI	Condition	95% CI of Mean Difference					
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p holm
	V1,Chance	-0.010	-0.030	0.011	0.006	-1.729	-0.316	1.000
	V1,Estimate	-0.057	-0.091	-0.023	0.009	-6.421	-1.172	< .001
	aPFC,Chance	-0.009	-0.030	0.012	0.006	-1.583	-0.289	1.000
	aPFC,Estimate	-0.122	-0.156	-0.089	0.009	13.791	-2.518	< .001
ATL, Estimate	IFG,Chance	0.073	0.040	0.107	0.009	8.277	1.511	< .001
	IFG,Estimate	-0.042	-0.063	-0.022	0.006	-7.473	-1.364	< .001
	Ins,Chance	0.069	0.036	0.103	0.009	7.807	1.425	< .001
	Ins,Estimate	-0.023	-0.043	-0.002	0.006	-4.029	-0.736	0.003
	LTL,Chance	0.066	0.032	0.099	0.009	7.380	1.347	< .001
	LTL,Estimate	-0.074	-0.095	-0.053	0.006	13.012	-2.376	< .001
	PCC,Chance	0.075	0.042	0.109	0.009	8.482	1.549	< .001
	PCC,Estimate	-0.014	-0.034	0.007	0.006	-2.440	-0.445	0.588
	Prec,Chance	0.073	0.040	0.107	0.009	8.272	1.510	< .001
	Prec,Estimate	-0.051	-0.071	-0.030	0.006	-8.936	-1.631	< .001
	V1,Chance	0.076	0.042	0.109	0.009	8.509	1.553	< .001
	V1,Estimate	0.028	0.008	0.049	0.006	4.987	0.911	< .001
	aPFC,Chance	0.076	0.043	0.110	0.009	8.602	1.571	< .001
	aPFC,Estimate	-0.037	-0.058	-0.016	0.006	-6.517	-1.190	< .001
IFG,Chance	IFG,Estimate	-0.116	-0.150	-0.082	0.009	- 13.064	-2.385	< .001
	Ins,Chance	-0.004	-0.025	0.016	0.006	-0.733	-0.134	1.000
	Ins,Estimate	-0.096	-0.130	-0.063	0.009	10.858	-1.982	< .001
	LTL,Chance	-0.008	-0.029	0.013	0.006	-1.399	-0.255	1.000
	LTL,Estimate	-0.147	-0.181	-0.114	0.009	16.613	-3.033	< .001
	PCC,Chance	0.002	-0.019	0.022	0.006	0.321	0.059	1.000
	PCC,Estimate	-0.087	-0.121	-0.054	0.009	-9.840	-1.796	< .001
	Prec,Chance	-4.049e -5	-0.021	0.021	0.006	-0.007	-0.001	1.000
	Prec,Estimate	-0.124	-0.158	-0.091	0.009	14.001	-2.556	< .001
	V1,Chance	0.002	-0.019	0.023	0.006	0.362	0.066	1.000
	V1,Estimate	-0.045	-0.079	-0.012	0.009	-5.081	-0.928	< .001
	aPFC,Chance	0.003	-0.018	0.023	0.006	0.508	0.093	1.000
	aPFC,Estimate	-0.111	-0.144	-0.077	0.009	12.452	-2.273	< .001
IFG,Estimate	Ins,Chance	0.112	0.078	0.145	0.009	12.594	2.299	< .001
	Ins,Estimate	0.020	-0.001	0.040	0.006	3.443	0.629	0.028
	LTL,Chance	0.108	0.074	0.142	0.009	12.168	2.222	< .001
	LTL,Estimate	-0.031	-0.052	-0.011	0.006	-5.539	-1.011	< .001
	PCC,Chance	0.118	0.084	0.151	0.009	13.270	2.423	< .001
	PCC,Estimate	0.029	0.008	0.049	0.006	5.033	0.919	< .001
	Prec,Chance	0.116	0.082	0.149	0.009	13.060	2.384	< .001

	· ·	95% CI of Mean Difference						
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p holm
	Prec,Estimate	-0.008	-0.029	0.012	0.006	-1.463	-0.267	1.000
	V1,Chance	0.118	0.084	0.152	0.009	13.296	2.428	< .001
	V1,Estimate	0.071	0.050	0.091	0.006	12.460	2.275	< .001
	aPFC,Chance	0.119	0.085	0.152	0.009	13.390	2.445	< .001
	aPFC,Estimate	0.005	-0.015	0.026	0.006	0.956	0.175	1.000
Ins,Chance	Ins,Estimate	-0.092	-0.126	-0.059	0.009	10.388	-1.897	<.001
	LTL,Chance	-0.004	-0.024	0.017	0.006	-0.666	-0.122	1.000
	LTL,Estimate	-0.143	-0.177	-0.110	0.009	16.144	-2.947	< .001
	PCC,Chance	0.006	-0.015	0.027	0.006	1.054	0.192	1.000
	PCC,Estimate	-0.083	-0.117	-0.050	0.009	-9.370	-1.711	< .001
	Prec,Chance	0.004	-0.016	0.025	0.006	0.726	0.133	1.000
	Prec,Estimate	-0.120	-0.154	-0.087	0.009	13.532	-2.471	< .001
	V1,Chance	0.006	-0.014	0.027	0.006	1.095	0.200	1.000
	V1,Estimate	-0.041	-0.074	-0.007	0.009	-4.612	-0.842	< .001
	aPFC,Chance	0.007	-0.014	0.028	0.006	1.241	0.227	1.000
	aPFC,Estimate	-0.106	-0.140	-0.073	0.009	- 11.982	-2.188	< .001
Ins,Estimate	LTL,Chance	0.088	0.055	0.122	0.009	9.962	1.819	< .001
	LTL,Estimate	-0.051	-0.072	-0.030	0.006	-8.983	-1.640	< .001
	PCC,Chance	0.098	0.065	0.132	0.009	11.064	2.020	< .001
	PCC,Estimate	0.009	-0.012	0.030	0.006	1.590	0.290	1.000
	Prec,Chance	0.096	0.063	0.130	0.009	10.854	1.982	< .001
	Prec,Estimate	-0.028	-0.048	-0.007	0.006	-4.906	-0.896	< .001
	V1,Chance	0.098	0.065	0.132	0.009	11.090	2.025	< .001
	V1,Estimate	0.051	0.031	0.072	0.006	9.017	1.646	< .001
	aPFC,Chance	0.099	0.066	0.133	0.009	11.184	2.042	< .001
	aPFC,Estimate	-0.014	-0.035	0.006	0.006	-2.487	-0.454	0.529
LTL,Chance	LTL,Estimate	-0.139	-0.173	-0.106	0.009	- 15.717	-2.869	< .001
	PCC,Chance	0.010	-0.011	0.030	0.006	1.720	0.314	1.000
	PCC,Estimate	-0.079	-0.113	-0.046	0.009	-8.943	-1.633	< .001
	Prec,Chance	0.008	-0.013	0.029	0.006	1.392	0.254	1.000
	Prec,Estimate	-0.116	-0.150	-0.083	0.009	13.105	-2.393	<.001
	V1,Chance	0.010	-0.011	0.031	0.006	1.761	0.322	1.000
	V1,Estimate	-0.037	-0.071	-0.004	0.009	-4.185	-0.764	0.004
	aPFC,Chance	0.011	-0.010	0.031	0.006	1.907	0.348	1.000
	aPFC,Estimate	-0.103	-0.136	-0.069	0.009	11.555	-2.110	< .001
LTL,Estimate	PCC,Chance	0.149	0.116	0.183	0.009	16.819	3.071	< .001
	PCC,Estimate	0.060	0.040	0.081	0.006	10.573	1.930	< .001
	Prec,Chance	0.147	0.114	0.181	0.009	16.609	3.032	< .001

Post Hoc Comparisons - ROI * Condition

		95% CI of Mean Difference						
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p holm
	Prec,Estimate	0.023	0.003	0.044	0.006	4.077	0.744	0.003
	V1,Chance	0.150	0.116	0.183	0.009	16.845	3.076	< .001
	V1,Estimate	0.102	0.082	0.123	0.006	17.999	3.286	< .001
	aPFC,Chance	0.150	0.117	0.184	0.009	16.939	3.093	< .001
	aPFC,Estimate	0.037	0.016	0.058	0.006	6.496	1.186	< .001
PCC,Chance	PCC,Estimate	-0.089	-0.123	-0.056	0.009	10.045	-1.834	< .001
	Prec,Chance	-0.002	-0.022	0.019	0.006	-0.328	-0.060	1.000
	Prec,Estimate	-0.126	-0.160	-0.093	0.009	14.207	-2.594	< .001
	V1,Chance	2.343e -4	-0.020	0.021	0.006	0.041	0.008	1.000
	V1,Estimate	-0.047	-0.080	-0.013	0.009	-5.287	-0.965	< .001
	aPFC,Chance	0.001	-0.020	0.022	0.006	0.187	0.034	1.000
	aPFC,Estimate	-0.112	-0.146	-0.079	0.009	12.657	-2.311	< .001
PCC,Estimate	Prec,Chance	0.087	0.054	0.121	0.009	9.835	1.796	< .001
	Prec,Estimate	-0.037	-0.058	-0.016	0.006	-6.496	-1.186	< .001
	V1,Chance	0.089	0.056	0.123	0.009	10.072	1.839	< .001
	V1,Estimate	0.042	0.022	0.063	0.006	7.427	1.356	< .001
	aPFC,Chance	0.090	0.057	0.124	0.009	10.165	1.856	< .001
	aPFC,Estimate	-0.023	-0.044	-0.003	0.006	-4.077	-0.744	0.003
Prec,Chance	Prec,Estimate	-0.124	-0.158	-0.091	0.009	13.997	-2.555	< .001
	V1,Chance	0.002	-0.018	0.023	0.006	0.369	0.067	1.000
	V1,Estimate	-0.045	-0.079	-0.012	0.009	-5.077	-0.927	< .001
	aPFC,Chance	0.003	-0.018	0.024	0.006	0.515	0.094	1.000
	aPFC,Estimate	-0.110	-0.144	-0.077	0.009	12.447	-2.273	< .001
Prec,Estimate	V1,Chance	0.126	0.093	0.160	0.009	14.234	2.599	< .001
	V1,Estimate	0.079	0.059	0.100	0.006	13.923	2.542	< .001
	aPFC,Chance	0.127	0.094	0.161	0.009	14.327	2.616	< .001
	aPFC,Estimate	0.014	-0.007	0.034	0.006	2.419	0.442	0.606
V1,Chance	V1,Estimate	-0.047	-0.081	-0.014	0.009	-5.313	-0.970	< .001
	aPFC,Chance	8.288e -4	-0.020	0.021	0.006	0.146	0.027	1.000
	aPFC,Estimate	-0.113	-0.146	-0.079	0.009	12.684	-2.316	< .001
V1,Estimate	aPFC,Chance	0.048	0.014	0.082	0.009	5.407	0.987	< .001
	aPFC,Estimate	-0.065	-0.086	-0.045	0.006	11.504	-2.100	< .001
aPFC,Chance	aPFC,Estimate	-0.113	-0.147	-0.080	0.009	- 12.777	-2.333	< .001

Note. Cohen's d does not correct for multiple comparisons.

Note. Bonferroni adjusted confidence intervals.

Descriptives

Descriptives

ROI	Condition	Mean	SD	N
LTL	Estimate	0.682	0.065	30
	Chance	0.543	0.000	30
IFG	Estimate	0.651	0.048	30
	Chance	0.535	0.000	30
Prec	Estimate	0.659	0.049	30
	Chance	0.535	0.000	30
ATL	Estimate	0.608	0.047	30
	Chance	0.523	0.000	30
aPFC	Estimate	0.645	0.062	30
	Chance	0.532	0.000	30
Ins	Estimate	0.631	0.029	30
	Chance	0.539	0.000	30
ACC	Estimate	0.666	0.058	30
	Chance	0.537	0.000	30
PCC	Estimate	0.622	0.035	30
	Chance	0.533	0.000	30
V1	Estimate	0.580	0.028	30
	Chance	0.533	0.000	30

Descriptives Plot

