

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	0.149 ^a	5.759 ^a	0.026 ^a	26.405 ^a	< .001 ^a	0.477	0.329
Residual	Greenhouse-Geisser	0.163	167.002	9.781e -4				
Condition	Greenhouse-Geisser	2.573	1.000	2.573	383.211	< .001	0.930	0.888
Residual	Greenhouse-Geisser	0.195	29.000	0.007				
ROI *	Greenhouse-Geisser	0.092 ^a	5.076 ^a	0.018 ^a	16.330 ^a	< .001 ^a	0.360	0.228
Condition	Greenhouse-Geisser	0.163	147.213	0.001				

Note. Type III Sum of Squares

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

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p	ω^2
Residual	0.119	29	0.004				

Note. Type III Sum of Squares

Post Hoc Tests

Post Hoc Comparisons - ROI * Condition

		95% CI of Mean Difference		SE	t	Cohen's d	p bonf	
	Mean Difference	Lower	Upper					
ACC,Chance	ACC,Estimate	-0.145	-0.181	-0.110	0.010	-15.188	-2.773	< .001
	ATL,Chance	0.006	-0.019	0.031	0.007	0.905	0.165	1.000
	ATL,Estimate	-0.080	-0.116	-0.045	0.010	-8.411	-1.536	< .001
	IFG,Chance	0.003	-0.021	0.028	0.007	0.506	0.092	1.000
	IFG,Estimate	-0.147	-0.183	-0.111	0.010	-15.374	-2.807	< .001
	Ins,Chance	-0.005	-0.030	0.019	0.007	-0.782	-0.143	1.000
	Ins,Estimate	-0.170	-0.206	-0.135	0.010	-17.828	-3.255	< .001
	LTL,Chance	-0.005	-0.030	0.019	0.007	-0.799	-0.146	1.000
	LTL,Estimate	-0.163	-0.198	-0.127	0.010	-16.994	-3.103	< .001
	PCC,Chance	0.010	-0.014	0.035	0.007	1.511	0.276	1.000
	PCC,Estimate	-0.133	-0.168	-0.097	0.010	-13.888	-2.536	< .001
	Prec,Chance	-3.238e -4	-0.025	0.024	0.007	-0.047	-0.009	1.000
	Prec,Estimate	-0.169	-0.204	-0.133	0.010	-17.644	-3.221	< .001
	V1,Chance	0.009	-0.016	0.034	0.007	1.329	0.243	1.000

Post Hoc Comparisons - ROI * Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
ACC,Estimate	V1,Estimate	-0.103	-0.138	-0.067	0.010	-10.722	-1.958	< .001
	aPFC,Chance	-0.002	-0.027	0.023	0.007	-0.328	-0.060	1.000
	aPFC,Estimate	-0.117	-0.153	-0.081	0.010	-12.244	-2.235	< .001
	ATL,Chance	0.151	0.116	0.187	0.010	15.835	2.891	< .001
	ATL,Estimate	0.065	0.040	0.090	0.007	9.460	1.727	< .001
	IFG,Chance	0.149	0.113	0.184	0.010	15.550	2.839	< .001
	IFG,Estimate	-0.002	-0.027	0.023	0.007	-0.262	-0.048	1.000
	Ins,Chance	0.140	0.104	0.176	0.010	14.627	2.670	< .001
	Ins,Estimate	-0.025	-0.050	-4.582e-4	0.007	-3.687	-0.673	0.039
	LTL,Chance	0.140	0.104	0.175	0.010	14.615	2.668	< .001
	LTL,Estimate	-0.017	-0.042	0.008	0.007	-2.523	-0.461	1.000
	PCC,Chance	0.156	0.120	0.191	0.010	16.269	2.970	< .001
	PCC,Estimate	0.012	-0.012	0.037	0.007	1.813	0.331	1.000
	Prec,Chance	0.145	0.109	0.181	0.010	15.153	2.767	< .001
	Prec,Estimate	-0.023	-0.048	0.001	0.007	-3.430	-0.626	0.101
ATL,Chance	V1,Chance	0.154	0.119	0.190	0.010	16.139	2.947	< .001
	V1,Estimate	0.043	0.018	0.067	0.007	6.233	1.138	< .001
	aPFC,Chance	0.143	0.107	0.179	0.010	14.952	2.730	< .001
	aPFC,Estimate	0.028	0.003	0.053	0.007	4.109	0.750	0.007
	ATL,Estimate	-0.087	-0.122	-0.051	0.010	-9.060	-1.654	< .001
	IFG,Chance	-0.003	-0.028	0.022	0.007	-0.399	-0.073	1.000
	IFG,Estimate	-0.153	-0.189	-0.118	0.010	-16.023	-2.925	< .001
	Ins,Chance	-0.012	-0.036	0.013	0.007	-1.688	-0.308	1.000
	Ins,Estimate	-0.177	-0.212	-0.141	0.010	-18.476	-3.373	< .001
	LTL,Chance	-0.012	-0.036	0.013	0.007	-1.704	-0.311	1.000
	LTL,Estimate	-0.169	-0.204	-0.133	0.010	-17.642	-3.221	< .001
	PCC,Chance	0.004	-0.021	0.029	0.007	0.606	0.111	1.000
	PCC,Estimate	-0.139	-0.175	-0.103	0.010	-14.537	-2.654	< .001
	Prec,Chance	-0.007	-0.031	0.018	0.007	-0.953	-0.174	1.000
	Prec,Estimate	-0.175	-0.211	-0.139	0.010	-18.292	-3.340	< .001
ATL,Estimate	V1,Chance	0.003	-0.022	0.028	0.007	0.424	0.077	1.000
	V1,Estimate	-0.109	-0.144	-0.073	0.010	-11.371	-2.076	< .001
	aPFC,Chance	-0.008	-0.033	0.016	0.007	-1.234	-0.225	1.000
	aPFC,Estimate	-0.123	-0.159	-0.088	0.010	-12.893	-2.354	< .001
	IFG,Chance	0.084	0.048	0.120	0.010	8.774	1.602	< .001
	IFG,Estimate	-0.067	-0.091	-0.042	0.007	-9.722	-1.775	< .001
	Ins,Chance	0.075	0.039	0.111	0.010	7.851	1.433	< .001

Post Hoc Comparisons - ROI * Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p _{bonf}
			Lower	Upper				
IFG,Chance	Ins,Estimate	-0.090	-0.115	-0.065	0.007	-13.147	-2.400	< .001
	LTL,Chance	0.075	0.039	0.111	0.010	7.839	1.431	< .001
	LTL,Estimate	-0.082	-0.107	-0.057	0.007	-11.983	-2.188	< .001
	PCC,Chance	0.091	0.055	0.126	0.010	9.493	1.733	< .001
	PCC,Estimate	-0.052	-0.077	-0.028	0.007	-7.647	-1.396	< .001
	Prec,Chance	0.080	0.044	0.116	0.010	8.377	1.529	< .001
	Prec,Estimate	-0.088	-0.113	-0.063	0.007	-12.890	-2.353	< .001
	V1,Chance	0.090	0.054	0.125	0.010	9.363	1.709	< .001
	V1,Estimate	-0.022	-0.047	0.003	0.007	-3.227	-0.589	0.205
	aPFC,Chance	0.078	0.043	0.114	0.010	8.176	1.493	< .001
	aPFC,Estimate	-0.037	-0.061	-0.012	0.007	-5.352	-0.977	< .001
	IFG,Estimate	-0.150	-0.186	-0.115	0.010	-15.739	-2.873	< .001
	Ins,Chance	-0.009	-0.034	0.016	0.007	-1.289	-0.235	1.000
	Ins,Estimate	-0.174	-0.210	-0.138	0.010	-18.191	-3.321	< .001
	LTL,Chance	-0.009	-0.034	0.016	0.007	-1.305	-0.238	1.000
	LTL,Estimate	-0.166	-0.202	-0.130	0.010	-17.356	-3.169	< .001
	PCC,Chance	0.007	-0.018	0.032	0.007	1.005	0.183	1.000
	PCC,Estimate	-0.136	-0.172	-0.101	0.010	-14.251	-2.602	< .001
	Prec,Chance	-0.004	-0.029	0.021	0.007	-0.554	-0.101	1.000
Prec,Estimate	-0.172	-0.208	-0.137	0.010	-18.006	-3.287	< .001	
IFG,Estimate	V1,Chance	0.006	-0.019	0.030	0.007	0.823	0.150	1.000
	V1,Estimate	-0.106	-0.142	-0.070	0.010	-11.085	-2.024	< .001
	aPFC,Chance	-0.006	-0.031	0.019	0.007	-0.835	-0.152	1.000
	aPFC,Estimate	-0.121	-0.156	-0.085	0.010	-12.607	-2.302	< .001
	Ins,Chance	0.142	0.106	0.177	0.010	14.814	2.705	< .001
	Ins,Estimate	-0.023	-0.048	0.001	0.007	-3.425	-0.625	0.102
	LTL,Chance	0.142	0.106	0.177	0.010	14.802	2.703	< .001
	LTL,Estimate	-0.015	-0.040	0.009	0.007	-2.261	-0.413	1.000
	PCC,Chance	0.157	0.122	0.193	0.010	16.457	3.005	< .001
	PCC,Estimate	0.014	-0.011	0.039	0.007	2.075	0.379	1.000
	Prec,Chance	0.147	0.111	0.182	0.010	15.341	2.801	< .001
	Prec,Estimate	-0.022	-0.046	0.003	0.007	-3.168	-0.578	0.250
	V1,Chance	0.156	0.120	0.192	0.010	16.326	2.981	< .001
V1,Estimate	0.044	0.020	0.069	0.007	6.495	1.186	< .001	
aPFC,Chance	0.145	0.109	0.180	0.010	15.139	2.764	< .001	
aPFC,Estimate	0.030	0.005	0.055	0.007	4.370	0.798	0.002	

Post Hoc Comparisons - ROI * Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p _{bonf}
			Lower	Upper				
Ins,Chance	Ins,Estimate	-0.165	-0.201	-0.129	0.010	17.269	-3.153	< .001
	LTL,Chance	-1.133e -4	-0.025	0.025	0.007	-0.017	-0.003	1.000
	LTL,Estimate	-0.157	-0.193	-0.121	0.010	16.434	-3.000	< .001
	PCC,Chance	0.016	-0.009	0.041	0.007	2.293	0.419	1.000
	PCC,Estimate	-0.127	-0.163	-0.092	0.010	13.328	-2.433	< .001
	Prec,Chance	0.005	-0.020	0.030	0.007	0.735	0.134	1.000
	Prec,Estimate	-0.163	-0.199	-0.128	0.010	17.083	-3.119	< .001
	V1,Chance	0.014	-0.010	0.039	0.007	2.111	0.385	1.000
	V1,Estimate	-0.097	-0.133	-0.062	0.010	10.162	-1.855	< .001
	aPFC,Chance	0.003	-0.022	0.028	0.007	0.454	0.083	1.000
	aPFC,Estimate	-0.112	-0.147	-0.076	0.010	11.684	-2.133	< .001
Ins,Estimate	LTL,Chance	0.165	0.129	0.201	0.010	17.256	3.150	< .001
	LTL,Estimate	0.008	-0.017	0.033	0.007	1.165	0.213	1.000
	PCC,Chance	0.181	0.145	0.217	0.010	18.910	3.453	< .001
	PCC,Estimate	0.038	0.013	0.062	0.007	5.500	1.004	< .001
	Prec,Chance	0.170	0.134	0.206	0.010	17.794	3.249	< .001
	Prec,Estimate	0.002	-0.023	0.027	0.007	0.257	0.047	1.000
	V1,Chance	0.180	0.144	0.215	0.010	18.780	3.429	< .001
	V1,Estimate	0.068	0.043	0.093	0.007	9.920	1.811	< .001
	aPFC,Chance	0.168	0.133	0.204	0.010	17.593	3.212	< .001
	aPFC,Estimate	0.053	0.029	0.078	0.007	7.796	1.423	< .001
LTL,Chance	LTL,Estimate	-0.157	-0.193	-0.121	0.010	16.423	-2.998	< .001
	PCC,Chance	0.016	-0.009	0.041	0.007	2.310	0.422	1.000
	PCC,Estimate	-0.127	-0.163	-0.092	0.010	13.316	-2.431	< .001
	Prec,Chance	0.005	-0.020	0.030	0.007	0.751	0.137	1.000
	Prec,Estimate	-0.163	-0.199	-0.128	0.010	17.071	-3.117	< .001
	V1,Chance	0.015	-0.010	0.039	0.007	2.128	0.388	1.000
	V1,Estimate	-0.097	-0.133	-0.061	0.010	10.150	-1.853	< .001
	aPFC,Chance	0.003	-0.022	0.028	0.007	0.470	0.086	1.000
	aPFC,Estimate	-0.112	-0.147	-0.076	0.010	11.672	-2.131	< .001
LTL,Estimate	PCC,Chance	0.173	0.137	0.209	0.010	18.076	3.300	< .001
	PCC,Estimate	0.030	0.005	0.054	0.007	4.335	0.792	0.003
	Prec,Chance	0.162	0.127	0.198	0.010	16.960	3.096	< .001
	Prec,Estimate	-0.006	-0.031	0.019	0.007	-0.907	-0.166	1.000
	V1,Chance	0.172	0.136	0.207	0.010	17.946	3.276	< .001
	V1,Estimate	0.060	0.035	0.085	0.007	8.756	1.599	< .001

Post Hoc Comparisons - ROI * Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p _{bonf}
			Lower	Upper				
PCC,Chance	aPFC,Chance	0.160	0.125	0.196	0.010	16.759	3.060	< .001
	aPFC,Estimate	0.045	0.021	0.070	0.007	6.631	1.211	< .001
	PCC,Estimate	-0.143	-0.179	-0.107	0.010	14.972	-2.734	< .001
	Prec,Chance	-0.011	-0.035	0.014	0.007	-1.558	-0.285	1.000
	Prec,Estimate	-0.179	-0.215	-0.143	0.010	18.726	-3.419	< .001
	V1,Chance	-0.001	-0.026	0.024	0.007	-0.182	-0.033	1.000
	V1,Estimate	-0.113	-0.149	-0.077	0.010	11.805	-2.155	< .001
PCC,Estimate	aPFC,Chance	-0.013	-0.037	0.012	0.007	-1.839	-0.336	1.000
	aPFC,Estimate	-0.127	-0.163	-0.092	0.010	13.326	-2.433	< .001
	Prec,Chance	0.132	0.097	0.168	0.010	13.854	2.529	< .001
	Prec,Estimate	-0.036	-0.061	-0.011	0.007	-5.243	-0.957	< .001
	V1,Chance	0.142	0.106	0.178	0.010	14.840	2.709	< .001
	V1,Estimate	0.030	0.005	0.055	0.007	4.420	0.807	0.002
	aPFC,Chance	0.131	0.095	0.166	0.010	13.653	2.493	< .001
Prec,Chance	aPFC,Estimate	0.016	-0.009	0.041	0.007	2.296	0.419	1.000
	Prec,Estimate	-0.168	-0.204	-0.133	0.010	17.611	-3.215	< .001
	V1,Chance	0.009	-0.015	0.034	0.007	1.376	0.251	1.000
	V1,Estimate	-0.102	-0.138	-0.067	0.010	10.688	-1.951	< .001
	aPFC,Chance	-0.002	-0.027	0.023	0.007	-0.281	-0.051	1.000
	aPFC,Estimate	-0.117	-0.152	-0.081	0.010	12.210	-2.229	< .001
	Prec,Estimate	V1,Chance	0.178	0.142	0.214	0.010	18.595	3.395
V1,Chance	V1,Estimate	0.066	0.041	0.091	0.007	9.663	1.764	< .001
	aPFC,Chance	0.166	0.131	0.202	0.010	17.408	3.178	< .001
	aPFC,Estimate	0.052	0.027	0.076	0.007	7.538	1.376	< .001
	V1,Estimate	-0.112	-0.147	-0.076	0.010	11.675	-2.132	< .001
	aPFC,Chance	-0.011	-0.036	0.013	0.007	-1.657	-0.303	1.000
	aPFC,Estimate	-0.126	-0.162	-0.091	0.010	13.196	-2.409	< .001
	Prec,Estimate	aPFC,Chance	0.100	0.065	0.136	0.010	10.487	1.915
aPFC,Chance	aPFC,Estimate	-0.015	-0.039	0.010	0.007	-2.124	-0.388	1.000
	aPFC,Estimate	-0.115	-0.151	-0.079	0.010	12.010	-2.193	< .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	0.700	0.048	30
	Chance	0.543	0.030	30
IFG	Estimate	0.684	0.037	30
	Chance	0.534	0.032	30
Prec	Estimate	0.706	0.030	30
	Chance	0.538	0.030	30
ATL	Estimate	0.618	0.043	30
	Chance	0.531	0.030	30
aPFC	Estimate	0.655	0.055	30
	Chance	0.540	0.031	30
Ins	Estimate	0.708	0.030	30
	Chance	0.543	0.028	30
ACC	Estimate	0.683	0.038	30
	Chance	0.537	0.028	30
PCC	Estimate	0.670	0.033	30
	Chance	0.527	0.027	30
V1	Estimate	0.640	0.037	30
	Chance	0.528	0.028	30

Descriptives Plot

