

Results

Repeated Measures ANOVA

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p
ROI	0.066	8	0.008	29.957	< .001
Residual	0.064	232	2.754e -4		
Condition	1.057	1	1.057	528.916	< .001
Residual	0.058	29	0.002		
ROI * Condition	0.028	8	0.003	12.539	< .001
Residual	0.064	232	2.754e -4		

Note. Type III Sum of Squares

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Residual	0.058	29	0.002		

Note. Type III Sum of Squares

Post Hoc Tests

Post Hoc Comparisons - ROI

		95% CI of Mean Difference			t	Cohen's d	p _{holm}
	Mean Difference	Lower	Upper	SE			
ACC	ATL	0.020	0.008	0.032	0.003	5.725	1.045 < .001
	IFG	-0.004	-0.016	0.008	0.003	-1.238	-0.226 1.000
	Ins	-0.003	-0.014	0.008	0.003	-1.016	-0.186 1.000
	LTL	-0.017	-0.028	-0.007	0.003	-5.946	-1.086 < .001
	PCC	0.010	-1.509e -4	0.021	0.003	3.484	0.636 0.024
	Prec	-0.007	-0.015	9.700e -4	0.002	-3.116	-0.569 0.057
	V1	0.016	0.003	0.028	0.003	4.532	0.827 0.002
	aPFC	8.828e -5	-0.011	0.011	0.003	0.029	0.005 1.000
ATL	IFG	-0.024	-0.035	-0.013	0.003	-7.421	-1.355 < .001
	Ins	-0.023	-0.033	-0.013	0.003	-8.237	-1.504 < .001
	LTL	-0.037	-0.050	-0.025	0.004	-10.570	-1.930 < .001
	PCC	-0.009	-0.020	0.001	0.003	-3.090	-0.564 0.057
	Prec	-0.027	-0.037	-0.017	0.003	-9.771	-1.784 < .001
	V1	-0.004	-0.014	0.006	0.003	-1.424	-0.260 1.000
	aPFC	-0.020	-0.032	-0.007	0.003	-5.705	-1.042 < .001
IFG	Ins	0.001	-0.009	0.011	0.003	0.375	0.068 1.000
	LTL	-0.013	-0.025	-0.002	0.003	-4.077	-0.744 0.005
	PCC	0.014	0.003	0.026	0.003	4.611	0.842 0.001
	Prec	-0.003	-0.012	0.006	0.003	-1.187	-0.217 1.000
	V1	0.020	0.008	0.032	0.003	5.872	1.072 < .001
	aPFC	0.004	-0.006	0.015	0.003	1.482	0.271 1.000
Ins	LTL	-0.014	-0.025	-0.004	0.003	-4.714	-0.861 0.001
	PCC	0.013	0.004	0.023	0.003	5.255	0.960 < .001

Post Hoc Comparisons - ROI

		95% CI of Mean Difference			SE	t	Cohen's d	p _{holm}
		Mean Difference	Lower	Upper				
	Prec	-0.004	-0.013	0.005	0.002	-1.622	-0.296	1.000
	V1	0.019	0.011	0.027	0.002	8.314	1.518	< .001
	aPFC	0.003	-0.008	0.015	0.003	1.021	0.186	1.000
LTL	PCC	0.028	0.015	0.041	0.004	7.418	1.354	< .001
	Prec	0.010	0.002	0.019	0.002	4.307	0.786	0.003
	V1	0.033	0.021	0.045	0.003	9.652	1.762	< .001
	aPFC	0.018	0.008	0.028	0.003	6.249	1.141	< .001
PCC	Prec	-0.017	-0.026	-0.009	0.003	-6.934	-1.266	< .001
	V1	0.005	-0.005	0.016	0.003	1.747	0.319	0.912
	aPFC	-0.010	-0.022	0.002	0.003	-2.967	-0.542	0.072
Prec	V1	0.023	0.012	0.034	0.003	7.326	1.338	< .001
	aPFC	0.007	-0.002	0.016	0.003	2.823	0.515	0.094
V1	aPFC	-0.015	-0.027	-0.004	0.003	-4.612	-0.842	0.001

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

Note. Bonferroni adjusted confidence intervals.

Post Hoc Comparisons - Condition

		95% CI of Mean Difference			SE	t	Cohen's d	p _{holm}
		Mean Difference	Lower	Upper				
Chance Estimate		-0.088	-0.096	-0.081	0.004	-22.998	-4.199	< .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			SE	t	Cohen's d	p _{holm}
		Mean Difference	Lower	Upper				
ACC,Chance	ACC,Estimate	-0.086	-0.107	-0.066	0.006	15.482	-2.827	< .001
	ATL,Chance	0.010	-0.005	0.026	0.004	2.415	0.441	0.548
	ATL,Estimate	-0.057	-0.078	-0.037	0.006	10.289	-1.878	< .001
	IFG,Chance	0.006	-0.009	0.022	0.004	1.446	0.264	1.000
	IFG,Estimate	-0.101	-0.122	-0.080	0.006	18.113	-3.307	< .001
	Ins,Chance	-0.001	-0.017	0.014	0.004	-0.271	-0.049	1.000
	Ins,Estimate	-0.092	-0.112	-0.071	0.006	16.426	-2.999	< .001
	LTL,Chance	-0.005	-0.020	0.011	0.004	-1.069	-0.195	1.000
	LTL,Estimate	-0.117	-0.137	-0.096	0.006	20.926	-3.821	< .001
	PCC,Chance	0.010	-0.006	0.025	0.004	2.273	0.415	0.775
	PCC,Estimate	-0.076	-0.096	-0.055	0.006	13.551	-2.474	< .001
	Prec,Chance	-0.003	-0.018	0.013	0.004	-0.639	-0.117	1.000

Post Hoc Comparisons - ROI * Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p _{holm}
			Lower	Upper				
ACC,Estimate	Prec,Estimate	-0.098	-0.119	-0.077	0.006	17.576	-3.209	< .001
	V1,Chance	0.007	-0.009	0.022	0.004	1.524	0.278	1.000
	V1,Estimate	-0.062	-0.082	-0.041	0.006	11.067	-2.021	< .001
	aPFC,Chance	-0.001	-0.017	0.014	0.004	-0.322	-0.059	1.000
	aPFC,Estimate	-0.085	-0.105	-0.064	0.006	15.203	-2.776	< .001
	ATL,Chance	0.097	0.076	0.117	0.006	17.337	3.165	< .001
	ATL,Estimate	0.029	0.013	0.044	0.004	6.762	1.234	< .001
	IFG,Chance	0.093	0.072	0.113	0.006	16.593	3.029	< .001
	IFG,Estimate	-0.015	-0.030	8.344e -4	0.004	-3.425	-0.625	0.032
	Ins,Chance	0.085	0.065	0.106	0.006	15.274	2.789	< .001
ATL,Chance	Ins,Estimate	-0.005	-0.021	0.010	0.004	-1.229	-0.224	1.000
	LTL,Chance	0.082	0.061	0.102	0.006	14.661	2.677	< .001
	LTL,Estimate	-0.030	-0.046	-0.015	0.004	-7.088	-1.294	< .001
	PCC,Chance	0.096	0.075	0.117	0.006	17.228	3.145	< .001
	PCC,Estimate	0.011	-0.005	0.026	0.004	2.514	0.459	0.440
	Prec,Chance	0.084	0.063	0.104	0.006	14.991	2.737	< .001
	Prec,Estimate	-0.012	-0.027	0.004	0.004	-2.727	-0.498	0.272
	V1,Chance	0.093	0.072	0.114	0.006	16.652	3.040	< .001
	V1,Estimate	0.025	0.009	0.040	0.004	5.748	1.049	< .001
	aPFC,Chance	0.085	0.064	0.106	0.006	15.235	2.782	< .001
ATL,Estimate	aPFC,Estimate	0.002	-0.014	0.017	0.004	0.363	0.066	1.000
	ATL,Estimate	-0.068	-0.088	-0.047	0.006	12.143	-2.217	< .001
	IFG,Chance	-0.004	-0.020	0.011	0.004	-0.969	-0.177	1.000
	IFG,Estimate	-0.111	-0.132	-0.091	0.006	19.968	-3.646	< .001
	Ins,Chance	-0.012	-0.027	0.004	0.004	-2.685	-0.490	0.300
	Ins,Estimate	-0.102	-0.123	-0.081	0.006	18.280	-3.338	< .001
	LTL,Chance	-0.015	-0.030	5.839e -4	0.004	-3.484	-0.636	0.027
	LTL,Estimate	-0.127	-0.148	-0.106	0.006	22.781	-4.159	< .001
	PCC,Chance	-6.075e -4	-0.016	0.015	0.004	-0.142	-0.026	1.000
	PCC,Estimate	-0.086	-0.107	-0.065	0.006	15.406	-2.813	< .001
ATL,Estimate	Prec,Chance	-0.013	-0.029	0.002	0.004	-3.054	-0.557	0.105
	Prec,Estimate	-0.108	-0.129	-0.088	0.006	19.431	-3.548	< .001
	V1,Chance	-0.004	-0.019	0.012	0.004	-0.891	-0.163	1.000
	V1,Estimate	-0.072	-0.093	-0.051	0.006	12.922	-2.359	< .001
	aPFC,Chance	-0.012	-0.027	0.004	0.004	-2.736	-0.500	0.271

Post Hoc Comparisons - ROI * Condition

		95% CI of Mean Difference					Cohen's d	p _{holm}	
		Mean Difference	Lower	Upper	SE	t			
ATL,Estimate	aPFC,Estimate	-0.095	-0.116	-0.075	0.006	17.058	-3.114	< .001	
	IFG,Chance	0.064	0.043	0.084	0.006	11.400	2.081	< .001	
	IFG,Estimate	-0.044	-0.059	-0.028	0.004	10.187	-1.860	< .001	
	Ins,Chance	0.056	0.036	0.077	0.006	10.081	1.841	< .001	
	Ins,Estimate	-0.034	-0.050	-0.019	0.004	-7.990	-1.459	< .001	
	LTL,Chance	0.053	0.032	0.073	0.006	9.468	1.729	< .001	
	LTL,Estimate	-0.059	-0.075	-0.044	0.004	13.850	-2.529	< .001	
	PCC,Chance	0.067	0.046	0.088	0.006	12.035	2.197	< .001	
	PCC,Estimate	-0.018	-0.034	-0.003	0.004	-4.248	-0.776	0.001	
	Prec,Chance	0.055	0.034	0.075	0.006	9.798	1.789	< .001	
	Prec,Estimate	-0.041	-0.056	-0.025	0.004	-9.488	-1.732	< .001	
	V1,Chance	0.064	0.043	0.085	0.006	11.459	2.092	< .001	
	V1,Estimate	-0.004	-0.020	0.011	0.004	-1.013	-0.185	1.000	
	aPFC,Chance	0.056	0.035	0.077	0.006	10.042	1.833	< .001	
	aPFC,Estimate	-0.027	-0.043	-0.012	0.004	-6.399	-1.168	< .001	
IFG,Chance	IFG,Estimate	-0.107	-0.128	-0.087	0.006	19.224	-3.510	< .001	
	Ins,Chance	-0.007	-0.023	0.008	0.004	-1.717	-0.313	1.000	
	Ins,Estimate	-0.098	-0.118	-0.077	0.006	17.537	-3.202	< .001	
	LTL,Chance	-0.011	-0.026	0.005	0.004	-2.515	-0.459	0.440	
	LTL,Estimate	-0.123	-0.144	-0.102	0.006	22.037	-4.023	< .001	
	PCC,Chance	0.004	-0.012	0.019	0.004	0.827	0.151	1.000	
	PCC,Estimate	-0.082	-0.102	-0.061	0.006	14.662	-2.677	< .001	
	Prec,Chance	-0.009	-0.024	0.007	0.004	-2.085	-0.381	1.000	
	Prec,Estimate	-0.104	-0.125	-0.084	0.006	18.687	-3.412	< .001	
	V1,Chance	3.327e -4	-0.015	0.016	0.004	0.078	0.014	1.000	
	V1,Estimate	-0.068	-0.089	-0.047	0.006	12.178	-2.223	< .001	
	aPFC,Chance	-0.008	-0.023	0.008	0.004	-1.768	-0.323	1.000	
	aPFC,Estimate	-0.091	-0.112	-0.070	0.006	16.314	-2.979	< .001	
	IFG,Estimate	Ins,Chance	0.100	0.079	0.121	0.006	17.905	3.269	< .001
		Ins,Estimate	0.009	-0.006	0.025	0.004	2.197	0.401	0.913
LTL,Chance		0.096	0.076	0.117	0.006	17.292	3.157	< .001	
LTL,Estimate		-0.016	-0.031	-1.818e -4	0.004	-3.663	-0.669	0.014	
PCC,Chance		0.111	0.090	0.131	0.006	19.859	3.626	< .001	
PCC,Estimate		0.025	0.010	0.041	0.004	5.939	1.084	< .001	
Prec,Chance		0.098	0.078	0.119	0.006	17.622	3.217	< .001	

Post Hoc Comparisons - ROI * Condition

		95% CI of Mean Difference				t	Cohen's d	p _{holm}	
		Mean Difference	Lower	Upper	SE				
	Prec,Estimate	0.003	-0.013	0.019	0.004	0.699	0.128	1.000	
	V1,Chance	0.108	0.087	0.128	0.006	19.283	3.521	< .001	
	V1,Estimate	0.039	0.024	0.055	0.004	9.174	1.675	< .001	
	aPFC,Chance	0.100	0.079	0.120	0.006	17.866	3.262	< .001	
	aPFC,Estimate	0.016	7.204e -4	0.032	0.004	3.788	0.692	0.009	
	Ins,Chance	Ins,Estimate	-0.090	-0.111	-0.070	0.006	-16.218	-2.961	< .001
	LTL,Chance	-0.003	-0.019	0.012	0.004	-0.799	-0.146	1.000	
	LTL,Estimate	-0.116	-0.136	-0.095	0.006	-20.718	-3.783	< .001	
	PCC,Chance	0.011	-0.005	0.026	0.004	2.544	0.464	0.418	
	PCC,Estimate	-0.074	-0.095	-0.054	0.006	-13.343	-2.436	< .001	
	Prec,Chance	-0.002	-0.017	0.014	0.004	-0.368	-0.067	1.000	
	Prec,Estimate	-0.097	-0.118	-0.076	0.006	-17.368	-3.171	< .001	
	V1,Chance	0.008	-0.008	0.023	0.004	1.794	0.328	1.000	
	V1,Estimate	-0.061	-0.081	-0.040	0.006	-10.859	-1.983	< .001	
	aPFC,Chance	-2.191e -4	-0.016	0.015	0.004	-0.051	-0.009	1.000	
	aPFC,Estimate	-0.084	-0.104	-0.063	0.006	-14.996	-2.738	< .001	
	Ins,Estimate	LTL,Chance	0.087	0.066	0.108	0.006	15.605	2.849	< .001
	LTL,Estimate	-0.025	-0.041	-0.010	0.004	-5.859	-1.070	< .001	
	PCC,Chance	0.101	0.081	0.122	0.006	18.172	3.318	< .001	
	PCC,Estimate	0.016	5.250e -4	0.032	0.004	3.743	0.683	0.010	
	Prec,Chance	0.089	0.068	0.110	0.006	15.935	2.909	< .001	
	Prec,Estimate	-0.006	-0.022	0.009	0.004	-1.498	-0.273	1.000	
	V1,Chance	0.098	0.078	0.119	0.006	17.596	3.213	< .001	
	V1,Estimate	0.030	0.014	0.045	0.004	6.977	1.274	< .001	
	aPFC,Chance	0.090	0.070	0.111	0.006	16.179	2.954	< .001	
	aPFC,Estimate	0.007	-0.009	0.022	0.004	1.592	0.291	1.000	
	LTL,Chance	LTL,Estimate	-0.112	-0.133	-0.091	0.006	-20.105	-3.671	< .001
	PCC,Chance	0.014	-0.001	0.030	0.004	3.342	0.610	0.042	
	PCC,Estimate	-0.071	-0.092	-0.050	0.006	-12.730	-2.324	< .001	
	Prec,Chance	0.002	-0.014	0.017	0.004	0.430	0.079	1.000	
	Prec,Estimate	-0.093	-0.114	-0.073	0.006	-16.755	-3.059	< .001	
	V1,Chance	0.011	-0.004	0.027	0.004	2.593	0.473	0.381	
	V1,Estimate	-0.057	-0.078	-0.037	0.006	-10.246	-1.871	< .001	
	aPFC,Chance	0.003	-0.012	0.019	0.004	0.748	0.136	1.000	

Post Hoc Comparisons - ROI * Condition

		95% CI of Mean Difference					Cohen's d	p _{holm}
		Mean Difference	Lower	Upper	SE	t		
LTL,Estimate	aPFC,Estimate	-0.080	-0.101	-0.060	0.006	-14.382	-2.626	< .001
	PCC,Chance	0.126	0.106	0.147	0.006	22.672	4.139	< .001
	PCC,Estimate	0.041	0.026	0.057	0.004	9.602	1.753	< .001
	Prec,Chance	0.114	0.093	0.135	0.006	20.435	3.731	< .001
	Prec,Estimate	0.019	0.003	0.034	0.004	4.361	0.796	< .001
	V1,Chance	0.123	0.103	0.144	0.006	22.096	4.034	< .001
	V1,Estimate	0.055	0.039	0.071	0.004	12.836	2.344	< .001
	aPFC,Chance	0.115	0.095	0.136	0.006	20.679	3.775	< .001
	aPFC,Estimate	0.032	0.016	0.047	0.004	7.451	1.360	< .001
PCC,Chance	PCC,Estimate	-0.085	-0.106	-0.065	0.006	-15.297	-2.793	< .001
	Prec,Chance	-0.012	-0.028	0.003	0.004	-2.912	-0.532	0.162
	Prec,Estimate	-0.108	-0.128	-0.087	0.006	-19.322	-3.528	< .001
	V1,Chance	-0.003	-0.019	0.012	0.004	-0.749	-0.137	1.000
	V1,Estimate	-0.071	-0.092	-0.051	0.006	-12.813	-2.339	< .001
	aPFC,Chance	-0.011	-0.027	0.004	0.004	-2.595	-0.474	0.381
	aPFC,Estimate	-0.095	-0.115	-0.074	0.006	-16.949	-3.094	< .001
	PCC,Estimate	0.073	0.052	0.094	0.006	13.061	2.385	< .001
	Prec,Estimate	-0.022	-0.038	-0.007	0.004	-5.241	-0.957	< .001
Prec,Chance	V1,Chance	0.082	0.061	0.103	0.006	14.722	2.688	< .001
	V1,Estimate	0.014	-0.002	0.029	0.004	3.234	0.590	0.060
	aPFC,Chance	0.074	0.054	0.095	0.006	13.304	2.429	< .001
	aPFC,Estimate	-0.009	-0.025	0.006	0.004	-2.151	-0.393	0.963
	Prec,Estimate	-0.095	-0.116	-0.075	0.006	-17.086	-3.119	< .001
	V1,Chance	0.009	-0.006	0.025	0.004	2.163	0.395	0.963
	V1,Estimate	-0.059	-0.080	-0.038	0.006	-10.577	-1.931	< .001
	aPFC,Chance	0.001	-0.014	0.017	0.004	0.317	0.058	1.000
	aPFC,Estimate	-0.082	-0.103	-0.061	0.006	-14.713	-2.686	< .001
V1,Estimate	V1,Chance	0.105	0.084	0.125	0.006	18.747	3.423	< .001
	V1,Estimate	0.036	0.021	0.052	0.004	8.475	1.547	< .001
	aPFC,Chance	0.097	0.076	0.117	0.006	17.329	3.164	< .001
	aPFC,Estimate	0.013	-0.002	0.029	0.004	3.090	0.564	0.096
aPFC,Chance	V1,Estimate	-0.068	-0.089	-0.048	0.006	-12.238	-2.234	< .001
	aPFC,Chance	-0.008	-0.023	0.008	0.004	-1.846	-0.337	1.000
	aPFC,Estimate	-0.091	-0.112	-0.071	0.006	-16.374	-2.989	< .001
aPFC,Chance	0.060	0.040	0.081	0.006	10.820	1.975	< .001	

Post Hoc Comparisons - ROI * Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p _{holm}
			Lower	Upper				
	aPFC,Estimate	-0.023	-0.039	-0.008	0.004	-5.385	-0.983	< .001
aPFC,Chance	aPFC,Estimate	-0.083	-0.104	-0.063	0.006	-14.956	-2.731	< .001

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

Note. Bonferroni adjusted confidence intervals.

Descriptives

Descriptives Plot

