Results

Repeated Measures ANOVA

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	р	η ² p	ω^2
ROI	0.225	8	0.028	31.693	< .001	0.522	0.277
Residual	0.206	232	8.869e -4				
Condition	3.245	1	3.245	300.576	< .001	0.912	0.826
Residual	0.313	29	0.011				
ROI * Condition	0.146	8	0.018	23.476	< .001	0.447	0.205
Residual	0.181	232	7.782e -4				

Note. Type III Sum of Squares

Between Subjects Effects

	Sum of Squares	df	Mean Square F p η² p ω²
Residual	0.345	29	0.012

Note. Type III Sum of Squares

Assumption Checks

Test of Sphericity

	Mauchly's W	Annuar V2	df		Greenhouse-Geisser H	uynh-Feldt	Lower
	Mauchly 8 W	Approx. A	uı	р	3	3	Bound ε
ROI	0.167	46.718	35	0.094	0.736	0.945	0.125
Condition	1.000 a	NaN a	NaN a	NaN a	1.000 a	1.000 a	1.000 a
ROI * Condition	0.198	42.344	35	0.191	0.754	0.973	0.125

^a Singular error SSP matrix: The repeated measure has only two levels, or more levels than observations. When the repeated measure has two levels, the assumption of sphericity is always met.

Post Hoc Tests

Post Hoc Comparisons - ROI * Condition

		95% CI of Mean Difference			_			
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p bonf
ACC,Chance	ACC,Estimate	-0.185	-0.227	-0.142	0.011	-16.470	-3.007	< .001
	ATL,Chance	0.012	-0.015	0.039	0.007	1.599	0.292	1.000
	ATL, Estimate	-0.099	-0.142	-0.056	0.011	-8.705	-1.589	< .001
	IFG,Chance	2.991e -4	-0.027	0.027	0.007	0.040	0.007	1.000
	IFG,Estimate	-0.163	-0.206	-0.120	0.011	-14.338	-2.618	< .001
	Ins,Chance	-0.005	-0.032	0.022	0.007	-0.681	-0.124	1.000
	Ins,Estimate	-0.179	-0.222	-0.136	0.011	-15.728	-2.872	< .001
	LTL,Chance	-0.007	-0.034	0.020	0.007	-0.879	-0.161	1.000
	LTL,Estimate	-0.191	-0.234	-0.149	0.011	-16.810	-3.069	< .001
	PCC,Chance	-2.312e -4	-0.027	0.027	0.007	-0.031	-0.006	1.000
	PCC,Estimate	-0.144	-0.187	-0.101	0.011	-12.670	-2.313	< .001
	Prec,Chance	6.995e -6	-0.027	0.027	0.007	9.389e - 4	1.714e -4	1.000

	nparisons - ROI	95% CI of Mean Difference						
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p bonf
	Prec,Estimate	-0.195	-0.238	-0.153	0.011	-17.165	-3.134	< .001
	V1,Chance	0.003	-0.024	0.030	0.007	0.419	0.077	1.000
	V1,Estimate	-0.091	-0.134	-0.048	0.011	-8.010	-1.462	< .001
	aPFC,Chance	0.006	-0.021	0.033	0.007	0.760	0.139	1.000
	aPFC,Estimate	-0.137	-0.180	-0.094	0.011	-12.052	-2.200	< .001
ACC,Estimate	e ATL,Chance	0.197	0.154	0.240	0.011	17.284	3.156	< .001
	ATL,Estimate	0.086	0.059	0.113	0.007	11.516	2.103	< .001
	IFG,Chance	0.185	0.142	0.228	0.011	16.265	2.969	< .001
	IFG,Estimate	0.022	-0.005	0.049	0.007	2.905	0.530	0.588
	Ins,Chance	0.180	0.137	0.223	0.011	15.793	2.883	< .001
	Ins,Estimate	0.006	-0.021	0.033	0.007	0.780	0.142	1.000
	LTL,Chance	0.178	0.135	0.221	0.011	15.663	2.860	< .001
	LTL,Estimate	-0.007	-0.033	0.020	0.007	-0.874	-0.160	1.000
	PCC,Chance	0.185	0.142	0.228	0.011	16.218	2.961	< .001
	PCC,Estimate	0.041	0.014	0.068	0.007	5.455	0.996	< .001
	Prec,Chance	0.185	0.142	0.228	0.011	16.239	2.965	< .001
	Prec,Estimate	-0.011	-0.038	0.016	0.007	-1.417	-0.259	1.000
	V1,Chance	0.188	0.145	0.231	0.011	16.512	3.015	
	V1,Estimate	0.094	0.067		0.007	12.579	2.297	
	aPFC,Chance	0.191	0.148		0.011	16.735	3.055	
	aPFC,Estimate	0.048	0.021		0.007	6.400	1.168	
ATL,Chance	ATL,Estimate	-0.111	-0.154	-0.069		-9.890	-1.806	
,	IFG,Chance	-0.012	-0.039		0.007	-1.559	-0.285	
	IFG,Estimate	-0.175	-0.218	-0.132		-15.384	-2.809	
	Ins,Chance	-0.017	-0.044		0.007	-2.280	-0.416	
	Ins, Estimate	-0.191	-0.234	-0.148		-16.774	-3.063	
	LTL,Chance	-0.018	-0.045		0.007	-2.478	-0.453	
	LTL,Estimate	-0.203	-0.246	-0.160		-17.856	-3.260	
	PCC,Chance	-0.012	-0.039		0.007	-1.630	-0.298	
	PCC,Estimate	-0.156	-0.199	-0.113		-13.716	-2.504	
	Prec,Chance	-0.012	-0.039		0.007	-1.598	-0.292	
	Prec,Estimate	-0.207	-0.250	-0.164		-18.211	-3.325	
	V1,Chance	-0.009	-0.036		0.007	-1.180	-0.215	
	V1,Estimate	-0.103	-0.146	-0.060		-9.056	-1.653	
	aPFC,Chance	-0.006	-0.033		0.007	-0.839	-0.153	
	aPFC,Estimate	-0.149	-0.192	-0.106		-13.098	-2.391	
ATL,Estimate	*	0.099	0.057		0.011	8.731	1.594	
	IFG,Estimate	-0.064	-0.091	-0.037		-8.611	-1.572	
	Ins,Chance	0.094	0.051		0.011	8.260	1.508	
	Ins,Estimate	-0.080	-0.107	-0.053		-10.737	-1.960	
	LTL,Chance	0.093	0.050		0.011	8.130	1.484	
	LTL,Estimate	-0.092	-0.119	-0.065		-12.390	-2.262	
	PCC,Chance	0.099	0.056		0.007	8.685	1.586	
	PCC,Estimate	-0.045	-0.072	-0.018		-6.061	-1.107	
	Prec,Chance	0.099	0.056		0.007	8.706	1.589	
	Prec,Estimate	-0.096	-0.123	-0.069		-12.933	-2.361	
	V1,Chance	0.102	0.059		0.007	8.979	1.639	
	V1,Estimate	0.008	-0.019	0.035	0.007	1.063	0.194	1.000

	nparisons - ROI		95% CI of I Differen					
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p bonf
	aPFC,Chance	0.105	0.062	0.148	0.011	9.202	1.680	< .001
	aPFC,Estimate	-0.038	-0.065	-0.011	0.007	-5.116	-0.934	< .001
IFG,Chance	IFG,Estimate	-0.164	-0.206	-0.121	0.011	-14.569	-2.660	< .001
	Ins,Chance	-0.005	-0.032	0.022	0.007	-0.721	-0.132	1.000
	Ins,Estimate	-0.179	-0.222	-0.137	0.011	-15.754	-2.876	< .001
	LTL,Chance	-0.007	-0.034	0.020	0.007	-0.919	-0.168	1.000
	LTL,Estimate	-0.192	-0.235	-0.149	0.011	-16.836	-3.074	< .001
	PCC,Chance	-5.303e -4	-0.028	0.026	0.007	-0.071	-0.013	1.000
	PCC,Estimate	-0.145	-0.188	-0.102	0.011	-12.696	-2.318	< .001
	Prec,Chance	-2.921e -4	-0.027	0.027	0.007	-0.039	-0.007	1.000
	Prec,Estimate	-0.196	-0.239	-0.153	0.011	-17.191	-3.139	< .001
	V1,Chance	0.003	-0.024	0.030	0.007	0.379	0.069	1.000
	V1,Estimate	-0.092	-0.134	-0.049	0.011	-8.036	-1.467	< .001
	aPFC,Chance	0.005	-0.022	0.032	0.007	0.720	0.131	1.000
	aPFC,Estimate	-0.138	-0.180	-0.095	0.011	-12.078	-2.205	< .001
IFG,Estimate	Ins,Chance	0.158	0.115	0.201	0.011	13.893	2.536	< .001
	Ins,Estimate	-0.016	-0.043	0.011	0.007	-2.126	-0.388	1.000
	LTL,Chance	0.157	0.114	0.200	0.011	13.763	2.513	< .001
	LTL,Estimate	-0.028	-0.055	-0.001	0.007	-3.779	-0.690	0.027
	PCC,Chance	0.163	0.120	0.206	0.011	14.317	2.614	< .001
	PCC,Estimate	0.019	-0.008	0.046	0.007	2.550	0.466	1.000
	Prec,Chance	0.163	0.120	0.206	0.011	14.338	2.618	< .001
	Prec,Estimate	-0.032	-0.059	-0.005	0.007	-4.322	-0.789	0.003
	V1,Chance	0.166	0.124	0.209	0.011	14.612	2.668	< .001
	V1,Estimate	0.072	0.045	0.099	0.007	9.674	1.766	< .001
	aPFC,Chance	0.169	0.126	0.212	0.011	14.835	2.708	< .001
	aPFC,Estimate	0.026	-9.371e -4	0.053	0.007	3.495	0.638	0.080
Ins,Chance	Ins,Estimate	-0.174	-0.217	-0.132	0.011	-15.501	-2.830	< .001
	LTL,Chance	-0.001	-0.028	0.025	0.007	-0.199	-0.036	1.000
	LTL,Estimate	-0.186	-0.229	-0.143	0.011	-16.365	-2.988	< .001
	PCC,Chance	0.005	-0.022	0.032	0.007	0.650	0.119	1.000
	PCC,Estimate	-0.139	-0.182	-0.096	0.011	-12.224	-2.232	< .001
	Prec,Chance	0.005	-0.022	0.032	0.007	0.682	0.124	1.000
	Prec,Estimate	-0.190	-0.233	-0.148	0.011	-16.720	-3.053	< .001
	V1,Chance	0.008	-0.019	0.035	0.007	1.100	0.201	1.000
	V1,Estimate	-0.086	-0.129	-0.043	0.011	-7.564	-1.381	< .001
	aPFC,Chance	0.011	-0.016	0.038	0.007	1.441	0.263	1.000
	aPFC,Estimate	-0.132	-0.175	-0.089	0.011	-11.607	-2.119	< .001
Ins,Estimate	LTL,Chance	0.173	0.130	0.215	0.011	15.153	2.767	< .001
	LTL,Estimate	-0.012	-0.039	0.015	0.007	-1.653	-0.302	1.000
	PCC,Chance	0.179	0.136	0.222	0.011	15.708	2.868	< .001
	PCC,Estimate	0.035	0.008	0.062	0.007	4.676	0.854	< .001
	Prec,Chance	0.179	0.136	0.222	0.011	15.729	2.872	< .001
	Prec,Estimate	-0.016	-0.043	0.011	0.007	-2.197	-0.401	1.000
	V1,Chance	0.182	0.139	0.225	0.011	16.002	2.922	< .001
	V1,Estimate	0.088	0.061	0.115	0.007	11.800	2.154	< .001
	aPFC,Chance	0.185	0.142	0.228	0.011	16.225	2.962	< .001
	aPFC,Estimate	0.042	0.015	0.069	0.007	5.620	1.026	< .001

10301100 001	nparisons - KOI	· Condition	95% CI of N Differen					
		Mean Difference	Lower	Upper	SE	t	Cohen's d	p bonf
LTL,Chance	LTL,Estimate	-0.185	-0.227	-0.142	0.011	-16.466	-3.006	< .001
	PCC,Chance	0.006	-0.021	0.033	0.007	0.848	0.155	1.000
	PCC,Estimate	-0.138	-0.181	-0.095	0.011	-12.094	-2.208	< .001
	Prec,Chance	0.007	-0.020	0.034	0.007	0.880	0.161	1.000
	Prec,Estimate	-0.189	-0.232	-0.146	0.011	-16.590	-3.029	< .001
	V1,Chance	0.010	-0.017	0.037	0.007	1.298	0.237	1.000
	V1,Estimate	-0.085	-0.128	-0.042	0.011	-7.434	-1.357	< .001
	aPFC,Chance	0.012	-0.015	0.039	0.007	1.639	0.299	1.000
	aPFC,Estimate	-0.131	-0.174	-0.088	0.011	-11.477	-2.095	< .001
LTL,Estimate	PCC,Chance	0.191	0.148	0.234	0.011	16.789	3.065	< .001
	PCC,Estimate	0.047	0.020	0.074	0.007	6.329	1.156	< .001
	Prec,Chance	0.191	0.149	0.234	0.011	16.810	3.069	< .001
	Prec,Estimate	-0.004	-0.031	0.023	0.007	-0.543	-0.099	1.000
	V1,Chance	0.195	0.152	0.237	0.011	17.084	3.119	< .001
	V1,Estimate	0.100	0.073	0.127	0.007	13.453	2.456	< .001
	aPFC,Chance	0.197	0.154	0.240	0.011	17.307	3.160	< .001
	aPFC,Estimate	0.054	0.027	0.081	0.007	7.274	1.328	< .001
PCC,Chance	PCC,Estimate	-0.144	-0.187	-0.102	0.011	-12.830	-2.342	< .001
	Prec,Chance	2.382e -4	-0.027	0.027	0.007	0.032	0.006	1.000
	Prec,Estimate	-0.195	-0.238	-0.152	0.011	-17.145	-3.130	< .001
	V1,Chance	0.003	-0.024	0.030	0.007	0.450	0.082	1.000
	V1,Estimate	-0.091	-0.134	-0.048	0.011	-7.989	-1.459	< .001
	aPFC,Chance	0.006	-0.021	0.033	0.007	0.791	0.144	1.000
	aPFC,Estimate	-0.137	-0.180	-0.094	0.011	-12.032	-2.197	< .001
PCC,Estimate	Prec,Chance	0.144	0.101	0.187	0.011	12.670	2.313	< .001
	Prec,Estimate	-0.051	-0.078	-0.024	0.007	-6.872	-1.255	< .001
	V1,Chance	0.147	0.105	0.190	0.011	12.944	2.363	< .001
	V1,Estimate	0.053	0.026	0.080	0.007	7.124	1.301	< .001
	aPFC,Chance	0.150	0.107	0.193	0.011	13.167	2.404	< .001
	aPFC,Estimate	0.007	-0.020	0.034	0.007	0.944	0.172	1.000
Prec,Chance	Prec,Estimate	-0.196	-0.238	-0.153	0.011	-17.411	-3.179	< .001
	V1,Chance	0.003	-0.024	0.030	0.007	0.418	0.076	1.000
	V1,Estimate	-0.091	-0.134	-0.048	0.011	-8.010	-1.462	< .001
	aPFC,Chance	0.006	-0.021	0.033	0.007	0.759	0.139	1.000
	aPFC,Estimate	-0.137	-0.180	-0.094	0.011	-12.053	-2.200	< .001
Prec,Estimate	V1,Chance	0.199	0.156	0.242	0.011	17.439	3.184	< .001
	V1,Estimate	0.104	0.077	0.131	0.007	13.996	2.555	< .001
	aPFC,Chance	0.201	0.158	0.244	0.011	17.662	3.225	< .001
	aPFC,Estimate	0.058	0.031	0.085	0.007	7.817	1.427	< .001
V1,Chance	V1,Estimate	-0.094	-0.137	-0.052		-8.402	-1.534	< .001
ŕ	aPFC,Chance	0.003	-0.024		0.007	0.341		1.000
	aPFC,Estimate	-0.140	-0.183	-0.097		-12.326	-2.250	
V1,Estimate	aPFC,Chance	0.097	0.054		0.011	8.507		< .001
	aPFC,Estimate	-0.046	-0.073	-0.019		-6.179	-1.128	
aPFC,Chance	aPFC,Estimate	-0.143	-0.185	-0.100		-12.728	-2.324	

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

Note. Bonferroni adjusted confidence intervals.

Descriptives

Descriptives

	pures			
ROI	Condition	Mea n	SD	N
LTL	Estimate	0.729	0.070	30
	Chance	0.544	0.034	30
IFG	Estimate	0.701	0.051	30
	Chance	0.537	0.029	30
Prec	Estimate	0.733	0.051	30
	Chance	0.538	0.032	30
ATL	Estimate	0.637	0.053	30
	Chance	0.526	0.030	30
aPFC	Estimate	0.675	0.073	30
	Chance	0.532	0.032	30
Ins	Estimate	0.717	0.043	30
	Chance	0.543	0.029	30
ACC	Estimate	0.722	0.059	30
	Chance	0.538	0.023	30
PCC	Estimate	0.682	0.046	30
	Chance	0.538	0.032	30
V1	Estimate	0.629	0.043	30
	Chance	0.534	0.033	30

Descriptives Plot

