Repeated Measures ANOVA

Within Subjects Effects

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η² p	ω²
ROI	Greenhouse-Geisser	0.117 [a]	4.775 [a]	0.024 [a]	23.663 [a]	< .001 [a]	0.449	0.189
Residual	Greenhouse-Geisser	0.143	138.467	0.001				
Condition	Greenhouse-Geisser	0.175	1.000	0.175	25.229	< .001	0.465	0.237
Residual	Greenhouse-Geisser	0.202	29.000	0.007				
ROI ✻ Condition	Greenhouse-Geisser	0.068	5.521	0.012	13.520	< .001	0.318	0.115
Residual	Greenhouse-Geisser	0.145	160.113	9.069e -4				

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	η² p	ω²
Residual	0.322	29	0.011				

Note. Type III Sum of Squares

Post Hoc Tests

Post Hoc Comparisons - ROI ✻ Condition

		Mean Difference	95% CI of Mean Difference Lower	Upper	SE	t	Cohen's d	p bonf
ACC,Chance	ACC,Estimate	-0.066	-0.101	-0.031	0.009	-7.006	-1.279	< .001
	ATL,Chance	0.006	-0.017	0.030	0.006	0.964	0.176	1.000
	ATL,Estimate	-0.013	-0.048	0.022	0.009	-1.404	-0.256	1.000
	IFG,Chance	0.003	-0.020	0.027	0.006	0.539	0.098	1.000
	IFG,Estimate	-0.040	-0.075	-0.004	0.009	-4.213	-0.769	0.010
	Ins,Chance	-0.005	-0.029	0.018	0.006	-0.832	-0.152	1.000
	Ins,Estimate	-0.021	-0.056	0.014	0.009	-2.250	-0.411	1.000
	LTL,Chance	-0.005	-0.029	0.018	0.006	-0.850	-0.155	1.000
	LTL,Estimate	-0.069	-0.104	-0.033	0.009	-7.304	-1.333	< .001
	PCC,Chance	0.010	-0.013	0.034	0.006	1.608	0.294	1.000
	PCC,Estimate	-0.023	-0.059	0.012	0.009	-2.498	-0.456	1.000
	Prec,Chance	-3.238e -4	-0.024	0.023	0.006	-0.050	-0.009	1.000
	Prec,Estimate	-0.054	-0.089	-0.018	0.009	-5.706	-1.042	< .001
	V1,Chance	0.009	-0.014	0.032	0.006	1.415	0.258	1.000
	V1,Estimate	0.016	-0.019	0.051	0.009	1.702	0.311	1.000
	aPFC,Chance	-0.002	-0.026	0.021	0.006	-0.349	-0.064	1.000
	aPFC,Estimate	-0.039	-0.074	-0.004	0.009	-4.165	-0.760	0.012
ACC,Estimate	ATL,Chance	0.072	0.037	0.107	0.009	7.679	1.402	< .001
	ATL,Estimate	0.053	0.029	0.076	0.006	8.198	1.497	< .001
	IFG,Chance	0.069	0.034	0.105	0.009	7.388	1.349	< .001
	IFG,Estimate	0.026	0.003	0.050	0.006	4.096	0.748	0.008
	Ins,Chance	0.061	0.025	0.096	0.009	6.449	1.177	< .001
	Ins,Estimate	0.045	0.022	0.068	0.006	6.964	1.271	< .001

Post Hoc Comparisons - ROI ✱ Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
	LTL,Chance	0.060	0.025	0.096	0.009	6.436	1.175	< .001
	LTL,Estimate	-0.003	-0.026	0.021	0.006	-0.416	-0.076	1.000
	PCC,Chance	0.076	0.041	0.112	0.009	8.120	1.483	< .001
	PCC,Estimate	0.042	0.019	0.066	0.006	6.600	1.205	< .001
	Prec,Chance	0.066	0.030	0.101	0.009	6.984	1.275	< .001
	Prec,Estimate	0.012	-0.011	0.036	0.006	1.916	0.350	1.000
	V1,Chance	0.075	0.040	0.110	0.009	7.987	1.458	< .001
	V1,Estimate	0.082	0.059	0.105	0.006	12.733	2.325	< .001
	aPFC,Chance	0.064	0.028	0.099	0.009	6.779	1.238	< .001
	aPFC,Estimate	0.027	0.004	0.050	0.006	4.166	0.761	0.006
ATL,Chance	ATL,Estimate	-0.019	-0.055	0.016	0.009	-2.061	-0.376	1.000
	IFG,Chance	-0.003	-0.026	0.021	0.006	-0.425	-0.078	1.000
	IFG,Estimate	-0.046	-0.081	-0.011	0.009	-4.873	-0.890	< .001
	Ins,Chance	-0.012	-0.035	0.012	0.006	-1.796	-0.328	1.000
	Ins,Estimate	-0.027	-0.063	0.008	0.009	-2.910	-0.531	0.711
	LTL,Chance	-0.012	-0.035	0.012	0.006	-1.814	-0.331	1.000
	LTL,Estimate	-0.075	-0.110	-0.040	0.009	-7.964	-1.454	< .001
	PCC,Chance	0.004	-0.019	0.027	0.006	0.645	0.118	1.000
	PCC,Estimate	-0.030	-0.065	0.006	0.009	-3.158	-0.577	0.339
	Prec,Chance	-0.007	-0.030	0.017	0.006	-1.014	-0.185	1.000
	Prec,Estimate	-0.060	-0.095	-0.025	0.009	-6.366	-1.162	< .001
	V1,Chance	0.003	-0.020	0.026	0.006	0.451	0.082	1.000
	V1,Estimate	0.010	-0.025	0.045	0.009	1.042	0.190	1.000
	aPFC,Chance	-0.008	-0.032	0.015	0.006	-1.313	-0.240	1.000
	aPFC,Estimate	-0.045	-0.081	-0.010	0.009	-4.825	-0.881	< .001
ATL,Estimate	IFG,Chance	0.017	-0.019	0.052	0.009	1.773	0.324	1.000
	IFG,Estimate	-0.026	-0.050	-0.003	0.006	-4.102	-0.749	0.007
	Ins,Chance	0.008	-0.027	0.043	0.009	0.834	0.152	1.000
	Ins,Estimate	-0.008	-0.031	0.015	0.006	-1.234	-0.225	1.000
	LTL,Chance	0.008	-0.028	0.043	0.009	0.822	0.150	1.000
	LTL,Estimate	-0.055	-0.079	-0.032	0.006	-8.614	-1.573	< .001
	PCC,Chance	0.024	-0.012	0.059	0.009	2.506	0.457	1.000
	PCC,Estimate	-0.010	-0.034	0.013	0.006	-1.598	-0.292	1.000
	Prec,Chance	0.013	-0.022	0.048	0.009	1.370	0.250	1.000
	Prec,Estimate	-0.040	-0.064	-0.017	0.006	-6.282	-1.147	< .001
	V1,Chance	0.022	-0.013	0.058	0.009	2.373	0.433	1.000
	V1,Estimate	0.029	0.006	0.052	0.006	4.535	0.828	0.001
	aPFC,Chance	0.011	-0.024	0.046	0.009	1.165	0.213	1.000
	aPFC,Estimate	-0.026	-0.049	-0.003	0.006	-4.032	-0.736	0.010
IFG,Chance	IFG,Estimate	-0.043	-0.078	-0.008	0.009	-4.574	-0.835	0.003
	Ins,Chance	-0.009	-0.032	0.014	0.006	-1.372	-0.250	1.000
	Ins,Estimate	-0.025	-0.060	0.011	0.009	-2.619	-0.478	1.000
	LTL,Chance	-0.009	-0.032	0.014	0.006	-1.389	-0.254	1.000
	LTL,Estimate	-0.072	-0.107	-0.037	0.009	-7.673	-1.401	< .001
	PCC,Chance	0.007	-0.016	0.030	0.006	1.069	0.195	1.000
	PCC,Estimate	-0.027	-0.062	0.008	0.009	-2.867	-0.524	0.803

Post Hoc Comparisons - ROI ✳ Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
	Prec,Chance	-0.004	-0.027	0.020	0.006	-0.589	-0.108	1.000
	Prec,Estimate	-0.057	-0.092	-0.022	0.009	-6.076	-1.109	< .001
	V1,Chance	0.006	-0.018	0.029	0.006	0.876	0.160	1.000
	V1,Estimate	0.013	-0.023	0.048	0.009	1.333	0.243	1.000
	aPFC,Chance	-0.006	-0.029	0.018	0.006	-0.888	-0.162	1.000
	aPFC,Estimate	-0.043	-0.078	-0.007	0.009	-4.535	-0.828	0.003
IFG,Estimate	Ins,Chance	0.034	-0.001	0.069	0.009	3.643	0.665	0.072
	Ins,Estimate	0.018	-0.005	0.042	0.006	2.867	0.523	0.663
	LTL,Chance	0.034	-0.001	0.069	0.009	3.631	0.663	0.075
	LTL,Estimate	-0.029	-0.052	-0.006	0.006	-4.513	-0.824	0.001
	PCC,Chance	0.050	0.015	0.085	0.009	5.315	0.970	< .001
	PCC,Estimate	0.016	-0.007	0.039	0.006	2.504	0.457	1.000
	Prec,Chance	0.039	0.004	0.075	0.009	4.179	0.763	0.011
	Prec,Estimate	-0.014	-0.037	0.009	0.006	-2.180	-0.398	1.000
	V1,Chance	0.049	0.013	0.084	0.009	5.182	0.946	< .001
	V1,Estimate	0.056	0.032	0.079	0.006	8.637	1.577	< .001
	aPFC,Chance	0.037	0.002	0.073	0.009	3.974	0.726	0.023
	aPFC,Estimate	4.484e -4	-0.023	0.024	0.006	0.070	0.013	1.000
Ins,Chance	Ins,Estimate	-0.016	-0.051	0.020	0.009	-1.676	-0.306	1.000
	LTL,Chance	-1.133e -4	-0.023	0.023	0.006	-0.018	-0.003	1.000
	LTL,Estimate	-0.063	-0.099	-0.028	0.009	-6.734	-1.229	< .001
	PCC,Chance	0.016	-0.008	0.039	0.006	2.441	0.446	1.000
	PCC,Estimate	-0.018	-0.053	0.017	0.009	-1.928	-0.352	1.000
	Prec,Chance	0.005	-0.018	0.028	0.006	0.782	0.143	1.000
	Prec,Estimate	-0.048	-0.084	-0.013	0.009	-5.136	-0.938	< .001
	V1,Chance	0.014	-0.009	0.038	0.006	2.247	0.410	1.000
	V1,Estimate	0.021	-0.014	0.057	0.009	2.272	0.415	1.000
	aPFC,Chance	0.003	-0.020	0.026	0.006	0.483	0.088	1.000
	aPFC,Estimate	-0.034	-0.069	0.001	0.009	-3.595	-0.656	0.084
Ins,Estimate	LTL,Chance	0.016	-0.020	0.051	0.009	1.667	0.304	1.000
	LTL,Estimate	-0.047	-0.071	-0.024	0.006	-7.380	-1.347	< .001
	PCC,Chance	0.031	-0.004	0.067	0.009	3.351	0.612	0.186
	PCC,Estimate	-0.002	-0.026	0.021	0.006	-0.363	-0.066	1.000
	Prec,Chance	0.021	-0.014	0.056	0.009	2.215	0.404	1.000
	Prec,Estimate	-0.032	-0.056	-0.009	0.006	-5.048	-0.922	< .001
	V1,Chance	0.030	-0.005	0.065	0.009	3.218	0.588	0.282
	V1,Estimate	0.037	0.014	0.060	0.006	5.770	1.053	< .001
	aPFC,Chance	0.019	-0.016	0.054	0.009	2.010	0.367	1.000
	aPFC,Estimate	-0.018	-0.041	0.005	0.006	-2.797	-0.511	0.821
LTL,Chance	LTL,Estimate	-0.063	-0.099	-0.028	0.009	-6.710	-1.225	< .001
	PCC,Chance	0.016	-0.007	0.039	0.006	2.459	0.449	1.000
	PCC,Estimate	-0.018	-0.053	0.017	0.009	-1.916	-0.350	1.000
	Prec,Chance	0.005	-0.018	0.028	0.006	0.800	0.146	1.000
	Prec,Estimate	-0.048	-0.083	-0.013	0.009	-5.124	-0.936	< .001
	V1,Chance	0.015	-0.009	0.038	0.006	2.265	0.413	1.000
	V1,Estimate	0.021	-0.014	0.057	0.009	2.284	0.417	1.000

Post Hoc Comparisons - ROI ✶ Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
	aPFC,Chance	0.003	-0.020	0.027	0.006	0.501	0.091	1.000
	aPFC,Estimate	-0.034	-0.069	0.002	0.009	-3.583	-0.654	0.088
LTL,Estimate	PCC,Chance	0.079	0.044	0.114	0.009	8.405	1.535	< .001
	PCC,Estimate	0.045	0.022	0.068	0.006	7.017	1.281	< .001
	Prec,Chance	0.068	0.033	0.104	0.009	7.269	1.327	< .001
	Prec,Estimate	0.015	-0.008	0.038	0.006	2.332	0.426	1.000
	V1,Chance	0.078	0.042	0.113	0.009	8.273	1.510	< .001
	V1,Estimate	0.085	0.061	0.108	0.006	13.150	2.401	< .001
	aPFC,Chance	0.066	0.031	0.102	0.009	7.064	1.290	< .001
	aPFC,Estimate	0.029	0.006	0.053	0.006	4.582	0.837	< .001
PCC,Chance	PCC,Estimate	-0.034	-0.069	0.002	0.009	-3.594	-0.656	0.086
	Prec,Chance	-0.011	-0.034	0.013	0.006	-1.659	-0.303	1.000
	Prec,Estimate	-0.064	-0.099	-0.029	0.009	-6.808	-1.243	< .001
	V1,Chance	-0.001	-0.025	0.022	0.006	-0.194	-0.035	1.000
	V1,Estimate	0.006	-0.030	0.041	0.009	0.600	0.110	1.000
	aPFC,Chance	-0.013	-0.036	0.011	0.006	-1.958	-0.357	1.000
	aPFC,Estimate	-0.049	-0.085	-0.014	0.009	-5.267	-0.962	< .001
PCC,Estimate	Prec,Chance	0.023	-0.012	0.058	0.009	2.464	0.450	1.000
	Prec,Estimate	-0.030	-0.053	-0.007	0.006	-4.684	-0.855	< .001
	V1,Chance	0.033	-0.003	0.068	0.009	3.467	0.633	0.128
	V1,Estimate	0.039	0.016	0.063	0.006	6.133	1.120	< .001
	aPFC,Chance	0.021	-0.014	0.056	0.009	2.259	0.412	1.000
	aPFC,Estimate	-0.016	-0.039	0.008	0.006	-2.434	-0.444	1.000
Prec,Chance	Prec,Estimate	-0.053	-0.089	-0.018	0.009	-5.662	-1.034	< .001
	V1,Chance	0.009	-0.014	0.033	0.006	1.465	0.267	1.000
	V1,Estimate	0.016	-0.019	0.052	0.009	1.736	0.317	1.000
	aPFC,Chance	-0.002	-0.025	0.021	0.006	-0.299	-0.055	1.000
	aPFC,Estimate	-0.039	-0.074	-0.004	0.009	-4.131	-0.754	0.013
Prec,Estimate	V1,Chance	0.063	0.027	0.098	0.009	6.675	1.219	< .001
	V1,Estimate	0.070	0.046	0.093	0.006	10.817	1.975	< .001
	aPFC,Chance	0.051	0.016	0.087	0.009	5.467	0.998	< .001
	aPFC,Estimate	0.014	-0.009	0.038	0.006	2.250	0.411	1.000
V1,Chance	V1,Estimate	0.007	-0.028	0.042	0.009	0.732	0.134	1.000
	aPFC,Chance	-0.011	-0.035	0.012	0.006	-1.764	-0.322	1.000
	aPFC,Estimate	-0.048	-0.083	-0.013	0.009	-5.134	-0.937	< .001
V1,Estimate	aPFC,Chance	-0.018	-0.053	0.017	0.009	-1.941	-0.354	1.000
	aPFC,Estimate	-0.055	-0.078	-0.032	0.006	-8.567	-1.564	< .001
aPFC,Chance	aPFC,Estimate	-0.037	-0.072	-0.002	0.009	-3.919	-0.716	0.028

Note. Cohen's d does not correct for multiple comparisons.
Note. Bonferroni adjusted confidence intervals.

Descriptives

Descriptives

ROI	Condition	Mean	SD	N
LTL	Estimate	0.606	0.057	30
	Chance	0.543	0.030	30
IFG	Estimate	0.577	0.050	30
	Chance	0.534	0.032	30
Prec	Estimate	0.591	0.047	30
	Chance	0.538	0.030	30
ATL	Estimate	0.551	0.045	30
	Chance	0.531	0.030	30
aPFC	Estimate	0.577	0.058	30
	Chance	0.540	0.031	30
Ins	Estimate	0.559	0.032	30
	Chance	0.543	0.028	30
ACC	Estimate	0.603	0.061	30
	Chance	0.537	0.028	30
PCC	Estimate	0.561	0.036	30
	Chance	0.527	0.027	30
V1	Estimate	0.521	0.029	30
	Chance	0.528	0.028	30

Descriptives Plot