

# Results

## Linear Mixed Models

ANOVA Summary

Effect	df	F	p
Session	2, 29.82	2.905	.070
Electrode_Site	1, 72.02	0.212	.647

Warning: Model fit is singular. Specified random effects parameters (random intercepts and random slopes) cannot be estimated from the available data. Carefully reduce the random effects structure, but this practice might inflate the reported p-value, and invalidates the analysis.

Note. Model terms tested with Satterthwaite testMethod.

Note. The following variable is used as a random effects grouping factor: 'Subject\_ID'.

Note. Type III Sum of Squares

### Model summary

Fit statistics

Deviance (REML)	log Lik.	df	AIC	BIC
564.5	−282.2	15	594.5	642.4

Note. The model was fitted using restricted maximum likelihood. Please note that models with different fixed effects cannot be compared when REML is used. To use ML, switch 'Test method' to 'Likelihood ratio tests'.

Sample sizes

Observations	Levels of RE grouping factors
	Subject_ID
180	30

Term	Estimate	SE	df	t	p
Intercept	4.903	0.113	29.25	43.302	< .001
Session (1)	−0.289	0.127	30.64	−2.275	.030
Session (2)	0.047	0.128	29.15	0.370	.714
Electrode_Site (1)	0.035	0.076	72.02	0.460	.647

*Note.* The intercept corresponds to the (unweighted) grand mean; for each factor with k levels, k – 1 parameters are estimated with sum contrast coding. Consequently, the estimates cannot be directly mapped to factor levels. Use estimated marginal means for obtaining estimates for each factor level/design cell or their differences.

Variance/Correlation Estimates

Subject\_ID: Variance Estimates

Term	Std. Deviation	Variance
Intercept	0.468	0.219
Session (1)	0.392	0.154
Session (2)	0.396	0.157
Electrode_Site (1)	0.089	0.008

*Note.* The intercept corresponds to the (unweighted) grand mean; for each factor with k levels, k – 1 parameters are estimated with sum contrast coding. Consequently, the estimates cannot be directly mapped to factor levels. Use estimated marginal means for obtaining estimates for each factor level/design cell or their differences.

Subject\_ID: Correlation Estimates

Term	Intercept	Session (1)	Session (2)	Electrode_Site (1)
Intercept	1.000			
Session (1)	−0.663	1.000		
Session (2)	0.221	−0.410	1.000	
Electrode_Site (1)	0.576	0.206	0.062	1.000

*Note.* The intercept corresponds to the (unweighted) grand mean; for each factor with k levels, k – 1 parameters are estimated with sum contrast coding. Consequently, the estimates cannot be directly mapped to factor levels. Use estimated marginal means for obtaining estimates for each factor level/design cell or their differences.

Residual Variance Estimates

Std. Deviation	Variance
0.997	0.994

Random Effect Estimates

Subject\_ID: Random Effect Estimates

Subject_ID	(Intercept)	Session1	Session2	Electrode_Site1
1	1.024	−0.828	0.472	0.060
2	0.033	−0.090	−0.270	−0.031
3	0.720	−0.354	0.123	0.091
4	−0.096	0.082	0.261	0.013
5	0.245	−0.194	−0.277	−0.007
7	−0.299	0.159	−0.020	−0.033
8	−0.143	0.025	−0.253	−0.043
9	−0.077	−0.118	−0.243	−0.064
10	−0.411	0.233	−0.110	−0.046
11	−0.029	−0.092	−0.238	−0.045
13	−0.379	0.256	−0.033	−0.028
14	−0.497	0.305	−0.089	−0.047
17	0.060	−0.107	0.095	−0.008
20	−0.353	0.316	−0.057	−0.006
21	0.061	−0.021	−0.233	−0.004
22	0.155	−0.186	0.447	0.015
23	0.216	0.353	−0.338	0.128
24	−0.319	0.208	0.086	−0.019
25	−0.306	0.156	0.014	−0.033
26	0.502	−0.198	0.158	0.080
27	0.065	−0.116	0.482	0.013
28	0.027	0.009	0.269	0.025
31	0.065	0.032	0.032	0.026
35	0.623	−0.483	0.008	0.026
36	−0.380	0.169	0.087	−0.044
38	−0.286	0.130	−0.090	−0.041
40	−0.022	0.322	0.016	0.081
42	0.100	0.020	−0.339	0.011
43	0.149	−0.224	0.150	−0.014
44	−0.448	0.235	−0.109	−0.055