

Supplementary Material 3. Full statistical summary of the latency, wild-running duration, and convulsive-phase duration.

Analysis: Mixed-effects model (Restricted Maximum Likelihood, REML) followed by Sidak's multiple comparisons test.

A) Comparisons for seizure latency:

Seizure latency: Sham vs CBD (within the male group)

Table Analyzed											
Seizure latency Sham vs CBD males											
Mixed-effects model (REML)											
Matching: Stacked											
Assume sphericity?											
Alpha											
0.05											
Fixed effects (type II)											
P value											
Time											
0.0191 **											
Time x Treatment											
0.0205 **											
Time x Treatment											
0.0205 **											
Compare each cell mean with the other cell mean in that row											
Multiple comparison											
Number of families											
1											
Number of comparisons per family											
5											
Alpha											
0.05											
Sidak's multiple comparisons test											
Mean Diff.											
95.00% CI of diff.											
Significant?											
Summary											
Adjusted P Value											
Sham_S_M - CBD_S_M											
Pre-treatment											
0.125 -0.845 to 0.9145											
No											
ns											
1 h											
-0.75 -2.359 to 0.855											
No											
ns											
4 h											
-2.125 -4.579 to 0.4279											
No											
**											
0.013											
7 (days)											
-2.1 -4.479 to 0.2095											
No											
**											
0.0049											
14 (days)											
0.5 -3.761 to 4.761											
No											
ns											
Test details											
Mean 1											
Mean 2											
Mean Diff.											
SE of diff.											
N1											
N2											
1											
DF											
Sham_S_M - CBD_S_M											
Pre-treatment											
2											
2.5											
1 h											
2.5											
4 h											
2.25											
7 (days)											
4											
14 (days)											

Seizure latency: female vs male (within the Sham group)

Table Analyzed		Seizure latency females vs males Sham									
Mixed-effects model (REML)		Matching: Stacked									
Assume sphericity?		No									
Alpha		0.05									
Fixed effects (type II)		P value									
Time		0.0099 **									
Sex		0.0030 ns									
Time x Sex		0.0109 ns									
Compare each cell mean with the other cell mean in that row		Yes									
Number of families		1									
Number of comparisons per family		5									
Alpha		0.05									
Sidak's multiple comparisons test		Mean Diff.									
		95.00% CI of diff.									
		Significant?									
		Summary									
		Adjusted P Value									
Sham_S_M - Sham_S_F											
Pre-treatment		0 -1.036 to 1.036									
1 h		-1.488 to 1.498									
4 h		-1.520 to 1.520									
7 (days)		-0.583 -1.068 to 0.744									
14 (days)		0.6 -3.079 to 4.879									
Test details		Mean 1									
		Mean 2									
		Mean Diff.									
		SE of diff.									
Sham_S_M - Sham_S_F											
Pre-treatment		0									
1 h		0.14472									
4 h		0.3651									
7 (days)		-0.5833									
14 (days)		0.6									

C) Comparisons for convulsion phase duration:

Convulsive phase duration: Sham vs CBD (within the male group)

Fitter Analyzed					
convulsive phase Sham vs CBD males					
Mixed-effects model (REML)	Matching: Stacked				
Assume sphericity?	No				
Alpha	0.05				
Fixed effects (type III)	P value	P value summary	Statistically significant (P < 0.05)?	F (DFn, DFd)	Geisser-Greenhouse's epsilon
Time	0.0119 *		Yes	F (2,439, 26,12) = 5.165	0.6007
Treatment	0.056 ns		No	F (1, 10) = 0.1694	
Time x Treatment	0.8426 ns		No	F (4, 33) = 0.3494	

Compare each cell mean with the other cell mean in that row

Multiple comparison

Number of families

Number of comparisons per family

Alpha

0.05

Sidek's multiple comparisons test	Mean DfE	95.00% CI of dff.	Significant?	Summary	Adjusted P Value
Sham_S male - CBD_S male		-1.5 -12.94 to 9.94	No	ns	0.9895
Pre-treatment		0.375 -13.94 to 14.69	No	ns	<0.0000
1 h		0.214 -8.89 to 9.469	No	ns	<0.0000
4 h		0.583 -7.792 to 8.969	No	ns	0.9992
7 (days)		3.25 -9.732 to 15.20	No	ns	0.6204
14 (days)					

Test details	Mean 1	Mean 2	Mean DfE	SE of dff.	N1	N2	t	DF
Sham_S male - CBD_S male								
Pre-treatment	26.75	31.25	-1.5	2.64	4	8	0.5682	4.353
1 h	26.25	25.86	0.375	3.799	4	8	0.0987	5.712
4 h	27.75	27.43	0.3214	1.788	4	7	0.1787	5.063
7 (days)	25.75	25.17	0.583	1.852	4	6	0.3184	7.232
14 (days)	24	26.75	3.25	2.689	4	4	1.209	4.18

Convulsive phase duration: female vs male (within the Sham group)

Fitter Analyzed					
convulsive phase females vs males Sham					
Mixed-effects model (REML)	Matching: Stacked				
Assume sphericity?	No				
Alpha	0.05				
Fixed effects (type III)	P value	P value summary	Statistically significant (P < 0.05)?	F (DFn, DFd)	Geisser-Greenhouse's epsilon
Time	0.0198 *		Yes	F (1,778, 13,78) = 5.548	0.4446
Treatment	0.6466 ns		No	F (1, 8) = 0.7722	
Time x Sex	0.4178 ns		No	F (4, 33) = 1.610	

Compare each cell mean with the other cell mean in that row

Multiple comparison

Number of families

Number of comparisons per family

Alpha

0.05

Sidek's multiple comparisons test	Mean DfE	95.00% CI of dff.	Significant?	Summary	Adjusted P Value
Sham_S male - Sham_S female		-3.583 -15.02 to 7.853	No	ns	0.8518
Pre-treatment		-1.35 -16.84 to 15.34	No	ns	0.9899
1 h		-3.75 -14.38 to 6.879	No	ns	0.7894
4 h		-2.583 -6.682 to 1.514	No	ns	0.2892
7 (days)		3.5 -7.748 to 14.75	No	ns	0.8388
14 (days)					

Test details	Mean 1	Mean 2	Mean DfE	SE of dff.	N1	N2	t	DF
Sham_S male - Sham_S female								
Pre-treatment	26.75	33.33	-3.583	3.343	4	6	1.072	7.401
1 h	26.25	27.5	-1.25	3.34	4	5	0.3427	5.846
4 h	27.75	31.5	-3.75	3.119	4	6	1.203	7.475
7 (days)	25.75	26.33	-0.583	1.2	4	6	2.153	7.452
14 (days)	24	20.5	3.5	3.149	4	6	1.111	6.526

Convulsive phase duration: Sham vs CBD (within the female group)

Fitter Analyzed					
convulsive phase Sham vs CBD females					
Mixed-effects model (REML)	Matching: Stacked				
Assume sphericity?	No				
Alpha	0.05				
Fixed effects (type III)	P value	P value summary	Statistically significant (P < 0.05)?	F (DFn, DFd)	Geisser-Greenhouse's epsilon
Time	0.0013 *		Yes	F (2,498, 16,88) = 9.217	0.8016
Treatment	0.0095 *		Yes	F (1, 12) = 9.244	
Time x Treatment	0.3446 ns		No	F (4, 26) = 1.172	

Compare each cell mean with the other cell mean in that row

Multiple comparison

Number of families

Number of comparisons per family

Alpha

0.05

Sidek's multiple comparisons test	Mean DfE	95.00% CI of dff.	Significant?	Summary	Adjusted P Value
Sham_S female - CBD_S female		0.5833 -8.315 to 9.482	No	ns	0.9969
Pre-treatment		1.392 -8.376 to 12.14	No	ns	0.9744
1 h		6.5 -9.000 to 17.00	No	ns	0.2979
4 h		7.832 -15.39 to 31.00	No	ns	0.379
7 (days)		1 -9.323 to 11.32	No	ns	0.9978
14 (days)					

Test details	Mean 1	Mean 2	Mean DfE	SE of dff.	N1	N2	t	DF
Sham_S female - CBD_S female								
Pre-treatment	33.33	33.75	0.5833	2.627	6	8	0.2221	7.64
1 h	27.6	25.67	1.933	2.752	5	3	0.7026	5.921
4 h	31.5	25	6.5	3.025	6	4	2.149	7.979
7 (days)	28.33	20.5	7.833	4.287	6	4	1.823	3.242
14 (days)	25.5	19.5	1	2.493	6	2	0.4027	4.677

Convulsive phase duration: female vs male (within the CBD group)

Fitter Analyzed					
convulsive phase males vs females CBD					
Mixed-effects model (REML)	Matching: Stacked				
Assume sphericity?	No				
Alpha	0.05				
Fixed effects (type III)	P value	P value summary	Statistically significant (P < 0.05)?	F (DFn, DFd)	Geisser-Greenhouse's epsilon
Time	<0.0001		Yes	F (1, 14) = 12.01	0.7158
Treatment	0.2778 ns		No	F (1, 14) = 1.275	
Time x Sex	0.4713 ns		No	F (4, 30) = 0.9099	

Compare each cell mean with the other cell mean in that row

Multiple comparison

Number of families

Number of comparisons per family

Alpha

0.05

Sidek's multiple comparisons test	Mean DfE	95.00% CI of dff.	Significant?	Summary	Adjusted P Value
CBD_S female - CBD_S male		1.5 -3.376 to 6.376	No	ns	0.9058
Pre-treatment		-2.283 -5.581 to 8.164	No	ns	<0.0000
1 h		-2.429 -5.570 to 3.713	No	ns	0.8475
4 h		-4.687 -15.68 to 16.35	No	ns	0.0555
7 (days)		-1.25 -17.29 to 14.79	No	ns	0.9848
14 (days)					

Test details	Mean 1	Mean 2	Mean DfE	SE of dff.	N1	N2	t	DF
CBD_S female - CBD_S male								
Pre-treatment	32.75	31.25	1.5	1.942	8	8	0.8135	13.91
1 h	25.87	25.88	-0.0093	2.566	3	8	0.00182	8.476
4 h	25	27.43	-2.429	1.624	4	7	1.498	5.66
7 (days)	20.5	25.17	-4.687	4.514	4	6	1.034	3.903
14 (days)	19.5	20.75	-1.25	1.885	2	4	0.6702	2.175