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| **Statistical Comparisons**  **for Figure 1 - figure supplement 1** | | | **Comparison** | **Result** | |
| **Panel** | **Description** | **Test** | **p value** | **n value** |
| **1-1E** | Normalized change in frequency of spine events for  all spines  Control vs Deprived | *Two-Way ANOVA with post-hoc test* | Frequency: Control vs Deprived | p < 0.001 | Deprived = 434 spines  Control = 648 spines |
| -24 hrs: Con vs Dep | p < 0.001 |
| -1 hrs: Con vs Dep | p < 0.001 |
| +12 hrs: Con vs Dep | p < 0.001 |
| +24 hrs: Con vs Dep | p < 0.001 |
| +48 hrs: Con vs Dep | p < 0.001 |
| *One-Way*  *Repeated measures ANOVA* | Frequency: Dep -1 hrs vs Dep 12,24,48 hrs | p = 0.229 |
| Frequency: Con -1 hrs vs Con 12,24,48 hrs | p = 0.009 |
| Con -1 hrs vs +12 hrs | p < 0.001 |
| Con -1 hrs vs +24 hrs | p = 0.268 |
| Con -1 hrs vs +48 hrs | p = 0.002 |
| **1-1F** | Correlation normalized frequency and amplitude | *Pearson correlation* | All spines (r = -0.09) | p = 0.813 | Deprived = 434 spines |

**Figure 1-source data 2.** Statistical comparisons for Figure 1 - figure supplement 1.