**Supplementary Table 3: NREM sleep architecture for the first 2 hours after CNO and saline injections**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Treatment condition(mean values ± standard error) | Mixed-effect analysis  | Effect size for post-hoc comparisons (Cohen’s d) |
| Vigilance state | Parameter | Saline(n=16) | CNO1 mg/kg(n=11)  | CNO 5 mg/kg(n=15)  | CNO10 mg/kg(n=14)  | *F* | *p* | low dose | medium dose | high dose |
| **NREM** |  |  |  |  |  |  |  |  |  |  |
|  | Longest episode (min)  | 14.0875±0.8735 | 16.6424±1.7807 | 20.8089±1.0784 | 24.2524±1.8227 | F (2.144, 26.44) = 12.43 | 0.0001 | 0.3030 | 1.6520 | 1.4053 |
|  | Episode duration average (min)  | 6.7120±0.4205 | 7.8408±0.9216 | 9.8579±0.5317 | 10.1328±0.4766 | F (2.388, 29.45) = 9.042 | 0.0005 | 0.2847 | 1.0681 | 1.1462 |
|  | Episode number (n/h) | 5.0938±0.4139 | 4.7727±0.6229 | 3.7667±0.2797 | 3.9643±0.3251 | F (2.031, 25.05) = 3.391 | 0.0491 | -0.1375 | -0.8787 | -0.5501 |