**Supplementary Figure S2**—Median and interquartile range of behavioral variables (either count or continuous variables) over time compared between guinea pigs (*Cavia porcellus*) that underwent anesthesia and abdominal catheter placement alone (control group; red; n = 7) or with pneumoperitoneum at 6 mm Hg CO\(_2\) for 30 minutes (treatment group; blue; n = 7). Behaviors were evaluated via video recording for 30 minute periods at approximately 12 (0.5 days), 24 (1 day), 36 (1.5 days), 48 (2 days), and 60 (2.5 days) hours after the procedure. Body turns, incomplete movement, rearing, number of lying episodes, lying time, drinking, hiding episodes, and hiding time were expressed similarly between groups and over time. Several behaviors were expressed differently over time (summed active behaviors, number of active movements and time spent actively moving, head and neck movements, summed passive behaviors, weight shifting behaviors, subtle body movements, eating, grooming, and licking incision) but not between treatment groups. A few behaviors were significantly differently between groups at single time points. There were less coprophagy behaviors in the insufflated group than in the non-insufflated groups at T0.5. At T2.5, insufflated guinea pigs spent less time squinting compared to non-insufflated guinea pigs. No piloerection was observed in either group.