**Table S2**

Output of Model Comparisons, Best-Fitting Model, and Corrected Significance for Within-Session Regressions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **contrast** | **drug** | **index** | **model** | **Chisq** | **Df** | **P** | **element** | **std coeff** | **lower CI** | **upper CI** | **p-value** |  | **descending** | **Bon-H alpha** | **ascending** | **Ben-H alpha** | **sig 1** | **sig 2** |
| bl-dr | MPH | rewards | quadratic | 44.65 | 6 | 5.494E-08 | curvature | 0.38 | 0.13 | 0.63 | 0.0026 | 0.05 | 24 | 0.002083 | 1 | 0.002083 | no | yes |
| bl-dr | MOD | rewards | quadratic | 44.65 | 6 | 5.494E-08 | curvature | 0.38 | 0.13 | 0.63 | 0.0031 | 0.05 | 23 | 0.002174 | 2 | 0.004167 | no | yes |
| bl-dr | MOD | att lapse | linear | 9.4191 | 6 | 0.1518 | slope | 0.07 | 0.02 | 0.13 | 0.0063 | 0.05 | 22 | 0.002273 | 3 | 0.00625 | no | no |
| dr-wd | MOD | rewards | quadratic | 40.799 | 6 | 3.172E-07 | curvature | -28 | -0.54 | -0.03 | 0.027 | 0.05 | 21 | 0.002381 | 4 | 0.008333 | no | no |
| dr-wd | MPH | rewards | quadratic | 40.799 | 6 | 3.172E-07 | curvature | -0.26 | -0.5 | -0.01 | 0.0416 | 0.05 | 20 | 0.0025 | 5 | 0.010417 | no | no |
| bl-dr | MPH | t spread | linear | 7.2404 | 6 | 0.2992 | slope | 0.23 | -0.02 | 0.48 | 0.0689 | 0.05 | 19 | 0.002632 | 6 | 0.0125 | no | no |
| bl-dr | MPH | ear inh d | quadratic | 206.76 | 6 | 2.2E-16 | curvature | -0.17 | -0.37 | 0.03 | 0.0887 | 0.05 | 18 | 0.002778 | 7 | 0.014583 | no | no |
| dr-wd | MOD | t spread | linear | 7.9554 | 6 | 0.2414 | slope | 0.05 | -0.01 | 0.11 | 0.11 | 0.05 | 17 | 0.002941 | 8 | 0.016667 | no | no |
| bl-dr | MOD | t peak | quadratic | 63.305 | 6 | 9.567E-12 | curvature | -0.18 | -0.41 | 0.05 | 0.1303 | 0.05 | 16 | 0.003125 | 9 | 0.01875 | no | no |
| dr-wd | MPH | burst | quadratic | 117.74 | 6 | 2.2E-16 | curvature | 0.12 | -0.08 | 0.33 | 0.249 | 0.05 | 15 | 0.003333 | 10 | 0.020833 | no | no |
| dr-wd | MOD | ear inh d | quadratic | 258.81 | 6 | 2.2E-16 | curvature | 0.09 | -0.1 | 0.29 | 0.3558 | 0.05 | 14 | 0.003571 | 11 | 0.022917 | no | no |
| bl-dr | MOD | ear inh d | quadratic | 206.76 | 6 | 2.2E-16 | curvature | -0.08 | -0.28 | 0.11 | 0.4068 | 0.05 | 13 | 0.003846 | 12 | 0.025 | no | no |
| dr-wd | MOD | t peak | quadratic | 71.983 | 6 | 1.61E-13 | curvature | 0.1 | -0.13 | 0.33 | 0.4092 | 0.05 | 12 | 0.004167 | 13 | 0.027083 | no | no |
| dr-wd | MPH | ear inh d | quadratic | 258.81 | 6 | 2.2E-16 | curvature | 0.08 | -0.12 | 0.28 | 0.4573 | 0.05 | 11 | 0.004545 | 14 | 0.029167 | no | no |
| bl-dr | MPH | burst | quadratic | 112.5 | 6 | 2.2E-16 | curvature | -0.06 | -0.26 | 0.14 | 0.5407 | 0.05 | 10 | 0.005 | 15 | 0.03125 | no | no |
| dr-wd | MOD | att lapse | quadratic | 18.877 | 6 | 0.004376 | curvature | -0.06 | -0.27 | 0.15 | 0.571 | 0.05 | 9 | 0.005556 | 16 | 0.033333 | no | no |
| bl-dr | MOD | t spread | linear | 7.2404 | 6 | 0.2992 | slope | -0.06 | -0.31 | 0.19 | 0.6419 | 0.05 | 8 | 0.00625 | 17 | 0.035417 | no | no |
| dr-wd | MOD | burst | quadratic | 117.74 | 6 | 2.2E-16 | curvature | 0.04 | -0.15 | 0.23 | 0.6695 | 0.05 | 7 | 0.007143 | 18 | 0.0375 | no | no |
| dr-wd | MPH | att lapse | quadratic | 18.877 | 6 | 0.004376 | curvature | -0.04 | -0.25 | 0.17 | 0.7141 | 0.05 | 6 | 0.008333 | 19 | 0.039583 | no | no |
| bl-dr | MOD | burst | quadratic | 112.5 | 6 | 2.2E-16 | curvature | -0.3 | -0.22 | 0.15 | 0.732 | 0.05 | 5 | 0.01 | 20 | 0.041667 | no | no |
| bl-dr | MPH | att lapse | linear | 9.4191 | 6 | 0.1518 | slope | 0.01 | -0.04 | 0.06 | 0.7601 | 0.05 | 4 | 0.0125 | 21 | 0.04375 | no | no |
| dr-wd | MPH | t spread | linear | 7.9554 | 6 | 0.2414 | slope | -0.01 | -0.07 | 0.05 | 0.762 | 0.05 | 3 | 0.016667 | 22 | 0.045833 | no | no |
| dr-wd | MPH | t peak | quadratic | 71.983 | 6 | 1.61E-13 | curvature | 0.02 | -0.22 | 0.25 | 0.8915 | 0.05 | 2 | 0.025 | 23 | 0.047917 | no | no |
| bl-dr | MPH | t peak | quadratic | 63.305 | 6 | 9.567E-12 | curvature | 0.01 | -0.22 | 0.24 | 0.9084 | 0.05 | 1 | 0.05 | 24 | 0.05 | no | no |