### Supplementary tables

#### Table S1. Fitting parameters of fatigue and delay perception against visual delay.

| Model      | df | $\alpha$ | Standard error of $\alpha$ | $P(\alpha \neq 0)$ | $\beta$ | Standard error of $\beta$ | $P(\beta \neq 0)$ | SD of $\beta_i$ |
|------------|----|----------|-----------------------------|-------------------|--------|---------------------------|-------------------|-----------------|
| (Exp. 1)   |    |          |                            |                   |        |                           |                   |                 |
| Fatigue    | 40 | 0.030    | 0.078                       | 0.71              | 0.0075 | 0.0019                    | 0.00028           | 0.0050          |
| Delay      | 40 | -0.018   | 0.093                       | 0.093             | 0.019  | 0.0029                    | $5.0 \times 10^{-8}$ | 0.0084          |
| (Exp. 2)   |    |          |                            |                   |        |                           |                   |                 |
| Fatigue    | 68 | 0.050    | 0.048                       | 0.31              | 0.0064 | 0.0016                    | 0.00014           | 0.0052          |
| Delay      | 96 | 0.050    | 0.059                       | 0.41              | 0.020  | 0.0026                    | $9.3 \times 10^{-9}$ | 0.0084          |

#### Table S2. Comparison of model parameters for fitting in Experiment 1.

| df | $\alpha$ | $P(\alpha \neq 0)$ | $\beta$ | $P(\beta \neq 0)$ | $\beta^d$ | $P(\beta^d \neq 0)$ | AIC |
|----|----------|-------------------|--------|-------------------|-----------|---------------------|-----|
| Model 1 | 40       | 0.030             | 0.71   | 0.0075            | 0.00028   | —                   | 206.4 |
| Model 2 | 40       | -0.37             | 0.036  | —                 | —         | 1.03                | 0.00024 | 217.4 |
| Model 3 | 39       | 0.02              | 0.91   | 0.0074            | 0.014     | 0.0096              | 0.98 | 214.4 |