

“The relationship between the accuracy of curling athletes’ duration judgment and delivery performance”

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The last line of the abstract is modified from “Regression analysis results were $y = 3.422 + 1.415x$ ” to “Regression analysis results were $y = 3.422 - 0.001x$.”

In the behavior result of duration judgement section, the first sentence:

“ANOVA results of repeated measures of two (sports experience: curler, non-athlete) \times 2 (application situation: general situation, specific situation) of duration judgment behavioral data showed that the main effect of sport experience $F(1,27) = 24.29$, $p = 0.000$, $\eta^2p = 0.47$, application $F(1,27) = 6.66$, $p = 0.016$, $\eta^2p = 0.20$ the interaction between application situation and sports experience $F(1,27) = 4.34$, $p = 0.047$, $\eta^2p = 0.14$ were all significant.”

should be

“ANOVA results of repeated measures of two (sports experience: curler, non-athlete) \times 2 (application situation: general situation, specific situation) of duration judgment behavioral data showed that the main effect of sport experience $F(1,54) = 22.01$, $p < .001$, $\eta^2p = 0.29$, application $F(1,54) = 6.57$, $p = 0.012$, $\eta^2p = 0.11$, the interaction between application situation and sports experience $F(1,54) = 4.28$, $p = 0.043$, $\eta^2p = 0.07$ were all significant.”

The second sentence:

“The results of the simple effect analysis showed that the absolute error value of duration judgment between curlers and non-athletes was significant in general situations $p = 0.03$, 95% IC [36.03–559.81] and the absolute error value of curlers (1142.53 ± 43.89) was significantly smaller than that of non-athletes (1440.44 ± 124.91).”

should be

“The results of the simple effect analysis showed that the absolute error value of duration judgment between curlers and non-athletes was significant in general situations $p = 0.029$, 95% CI [–557.42, –38.42], and the absolute error value of curlers (1142.53 ± 232.24) was significantly smaller than that of non-athletes (1440.44 ± 660.97).”

The third sentence:

“In the special situation, the absolute error values of curling athletes and non-athletes were significant $p = 0.000$, 95% IC [405.55–1237.05], and the absolute error value of curlers ($552.20 \pm 38.$) was significantly smaller than that of non-athletes (1373.50 ± 203.48).

should be

“In the special situation, the absolute error values of curling athletes and non-athletes were significant $p < .001$, 95% CI [415.28, 1227.33], and the absolute error value of curlers (552.20 ± 205.62) was significantly smaller than that of non-athletes (1373.50 ± 1076.71).”

The fourth sentence:

“There was a significant difference in the absolute error value of curling athletes’ duration judgment in general and special situations $p = 0.000$, 95% IC [450.43–730.22] and the absolute error value of curlers in general situations (1142.53 ± 43.89) was significantly greater than that in special situations (552.20 ± 38.86).”

should be

“There was a significant difference in the absolute error value of curling athletes’ duration judgment in general and special situations $p = 0.002$, 95% CI [239.77, 940.88], and the absolute error value of curlers in general situations (1142.53 ± 232.24) was significantly greater than that in special situations (552.20 ± 205.62).”

The fifth sentence:

“The absolute error value of the duration judgment of non-athletes in general and special situations was different, but not significant $p = 0.786$, 95% IC [432.84–566.72].

should be

“The absolute error value of the duration judgment of non-athletes in general and special situations was not significantly different, $p = 0.71$, 95% CI [–283.61, 417.45].”

The sixth sentence:

“The absolute error value of non-athletes in general situations (1440.44 ± 124.91) was greater than that in special situations (1373.50 ± 203.48)”

should be

“The absolute error value of non-athletes in general situations (1440.44 ± 660.97) was greater than that in special situations (1373.50 ± 1076.71)”

In the Cortical activation characteristics of duration judgment results section, the first sentence:

“The results of repeated measures ANOVA of duration judgment EEG data showed that the main effect of sport experience was significant in the T1 time window $F(1,27) = 53.46$, $p = 0.000$, $\eta^2p = 0.66$, the main effect of application situation was significant $F(1,27) = 6.21$, $p = 0.019$, $\eta^2p = 0.19$, and the interaction between application situation and sports experience was significant $F(1,27) = 5.91$, $p = 0.022$, $\eta^2p = 0.18$.”

should be

“The results of repeated measures ANOVA of duration judgment EEG data showed that the main effect of sport experience was significant in the T1 time window $F(1,54) = 52.83$, $p < .001$, $\eta^2p = 0.50$, the main effect of application situation was significant $F(1,54) = 6.14$, $p = 0.016$, $\eta^2p = 0.10$, and the interaction between application situation and sports experience was significant $F(1,54) = 5.97$, $p = 0.018$, $\eta^2p = 0.10$.”

The second sentence:

“The simple effect analysis results showed that, in general, the alpha band power of curlers and non-athletes was significantly different under the T1 time window $p = 0.000$, 95% IC [4.36–8.07], and the alpha band power of curlers (6.65 ± 0.91) was significantly greater than that of non-athletes (0.44 ± 0.12).

should be

“The simple effect analysis results showed that, in general, the alpha band power of curlers and non-athletes was significantly different under the T1 time window $p < .001$, 95% CI [5.84, 6.59], and the alpha band power of curlers (6.65 ± 4.79) was significantly greater than that of non-athletes (0.44 ± 0.61).”

The third sentence:

“In the special situation, the alpha band power generated by curlers and non-athletes in the T1 time window was significantly different $p = 0.000$, 95% IC [4.96–8.61], and the alpha band power generated by curlers (7.23 ± 0.89) was significantly greater than that generated by non-athletes (0.44 ± 0.10).”

should be

“In the special situation, the alpha band power generated by curlers and non-athletes in the T1 time window was significantly different $p < .001$, 95% CI [5.04, 8.54], and the alpha band power generated by curlers (7.23 ± 4.69) was significantly greater than that generated by non-athletes (0.44 ± 0.54).”

The fourth sentence:

“For curlers, under the T1 time window, there is a significant difference in the alpha band power generated under the general situation and the special situation $p = 0.019$, 95% IC [0.10–1.06], and the alpha band power generated under the general situation (6.65 ± 0.91) is significantly smaller than that under the special situation (7.23 ± 0.89).”

should be

“For curlers, under the T1 time window, there is a significant difference in the alpha band power generated under the general situation and the special situation $p < .001$, 95% CI [0.25, 0.90], and the alpha band power generated under the general situation (6.65 ± 4.79) is significantly smaller than that under the special situation (7.23 ± 4.69)”

The fifth sentence:

“For non-athletes, in the T1 time window, there was no significant difference in the alpha band power generated under general situational stimuli and specific situational stimuli $p = 0.904$, 95% IC [0.06–0.07], and the alpha band power generated under general situational stimuli (0.44 ± 0.12) was smaller than that under specific situational stimuli (0.44 ± 0.10).”

should be

“For non-athletes, in the T1 time window, there was no significant difference in the alpha band power generated under general situational stimuli and specific situational stimuli $p = 0.981$, 95% CI [–0.33, 0.32], and the alpha band power generated under general situational stimuli (0.44 ± 0.61) was smaller than that under specific situational stimuli (0.44 ± 0.54).

The sixth sentence:

“Repeated measure variance analysis of duration judgment EEG data showed that, under the T2 time window, the statistical results of alpha frequency power showed that the main effect of sport experience was significant $F(1,27) = 57.11$, $p = 0.000$, $\eta^2p = 0.68$, the main effect of application situation was significant $F(1,27) = 24.50$, $p = 0.000$, $\eta^2p = 0.48$, and the interaction between application situation and sports experience was significant $F(1,27) = 22.94$, $p = 0.000$, $\eta^2p = 0.46$.”

should be

“Repeated measure variance analysis of duration judgment EEG data showed that, under the T2 time window, the statistical results of alpha frequency power showed that the main effect of sport experience was significant $F(1,54) = 56.65$, $p < .001$, $\eta^2p = 0.51$, the main effect of application situation was significant $F(1,54) = 23.00$, $p < .001$, $\eta^2p = 0.30$, and the interaction between application situation and sports experience was significant $F(1,54) = 24.35$, $p < 0.001$, $\eta^2p = 0.311$.”

The seventh sentence:

“The results of the simple effect analysis showed that, in general, the alpha band power generated by curlers and non-athletes was significantly different in the duration judgment stage $p = 0.000$, 95% IC [3.84–6.90], and the alpha band power generated by curlers (5.82 ± 0.74) was significantly greater than that of non-athletes (0.45 ± 0.15).”

should be

“The results of the simple effect analysis showed that, in general, the alpha band power generated by curlers and non-athletes was significantly different in the duration judgment stage $p < .001$, 95% CI [3.90, 6.85], and the alpha band power generated by curlers (5.82 ± 3.90) was significantly greater than that of non-athletes (0.45 ± 0.80).”

The eighth sentence:

“In a special situation, the alpha band power generated by curlers and non-athletes is significantly different in the duration judgment stage $p = 0.000$, 95% IC [4.89–8.45], and the alpha band power generated by curlers (7.10 ± 0.86) is significantly greater than that generated by non-athletes (0.43 ± 0.10).”

should be

“In a special situation, the alpha band power generated by curlers and nonathletes is significantly different in the duration judgment stage $p < .001$, 95% CI [4.98, 8.37], and the alpha band power generated by curlers (7.10 ± 4.55) is significantly greater than that generated by nonathletes (0.43 ± 0.80).”

The ninth sentence:

“There is a significant difference in the alpha band power generated by curling athletes in general situations and in special situations when judging the duration $p = 0.000$, 95% IC [0.76–1.80]. The alpha band power generated in the general situation (5.82 ± 0.74) was significantly smaller than that generated in the special situation (7.10 ± 0.86).”

should be

“There is a significant difference in the alpha band power generated by curling athletes in general situations and in special situations when judging the duration $p < .001$, 95% CI [–1.64, 0.91].” The alpha band power generated in the general situation (5.82 ± 3.90) was significantly smaller than that generated in the special situation (7.10 ± 4.55).”

The tenth sentence:

“There was no significant difference in the alpha frequency band power generated by non-athletes in general and special situations $p = 0.777$, 95% IC [0.11–0.15].”

should be

“There was no significant difference in the alpha frequency band power generated by non-athletes in general and special situations $p = 0.922$, 95% CI [−0.35, 0.38].”

The eleventh sentence:

“The alpha frequency band power generated in the general situation (0.45 ± 0.15) was greater than that generated in the special situation (0.43 ± 0.10) (Fig. 4).”

should be

“The alpha frequency band power generated in the general situation (0.45 ± 0.80) was greater than that generated in the special situation (0.43 ± 0.80) (Fig. 4).”

The twelfth sentence:

“The results of repeated measures variance analysis of duration judgment EEG data showed that under the T2 time window, the statistical results of theta band power showed that the main effect of sport experience was significant $F(1,27) = 89.64$, $p = 0.000$, $\eta^2 p = 0.77$, and the application situation had a significant interaction with sports experience $F(1,27) = 4.97$, $p = 0.034$, $\eta^2 p = 0.16$.”

should be

“The results of repeated measures variance analysis of duration judgment EEG data showed that under the T2 time window, the statistical results of theta band power showed that the main effect of sport experience was significant ($1,54$) = 89.18, $p < .001$, $\eta^2 p = 0.62$, and the application situation had a significant interaction with sports experience $F(1,54) = 4.25$, $p = 0.044$, $\eta^2 p = 0.73$.”

The thirteenth sentence:

“The simple effect analysis results showed that, in general, the theta band power generated by curlers and non-athletes was significantly different in the T2 time window $p = 0.000$, 95% IC [2.30–3.63], and the theta band power generated by curlers (3.40 ± 0.33) was significantly greater than that generated by non-athletes (0.43 ± 0.04).”

should be

“The simple effect analysis results showed that, in general, the theta band power generated by curlers and non-athletes was significantly different in the T2 time window $p < .001$, 95% CI [2.31, 3.62], and the

theta band power generated by curlers (3.40 ± 1.75) was significantly greater than that generated by non-athletes (0.43 ± 0.21)."

The fourteenth sentence:

"In this special situation, the theta band power generated by curlers and non-athletes is significantly different in the T2 time window $p = 0.000$, 95% IC [2.54–3.94], and the theta band power generated by curlers (3.64 ± 0.35) is significantly greater than that generated by non-athletes (0.40 ± 0.03)."

should be

"In this special situation, the theta band power generated by curlers and non-athletes is significantly different in the T2 time window $p < .001$, 95% CI [2.55, 3.92], and the theta band power generated by curlers (3.64 ± 1.83) is significantly greater than that generated by non-athletes (0.40 ± 0.16)."

The fifteenth sentence:

"For curlers, in the T2 time window, the difference between the theta band power generated in the general and specific situations was significant $p = 0.078$, 95% IC [0.03–0.50], and the theta band power generated in the general situation (3.40 ± 0.33) was smaller than that in the specific situation (3.64 ± 0.35)."

should be

"For curlers, in the T2 time window, the difference between the theta band power generated in the general and specific situations was significant $p = 0.013$, 95% CI [–0.42, –0.06], and the theta band power generated in the general situation (3.40 ± 1.75) was smaller than that in the specific situation (3.64 ± 1.83)."

The sixteenth sentence:

"For non-athletes, in the T2 time window, the difference between the theta band power generated in the general and specific situations was significant $p = 0.072$, 95% IC [0.00–0.07], and the theta band power generated in the general situation (0.43 ± 0.04) was greater than that in the specific situation (0.40 ± 0.03) (Fig. 5)."

should be

"For non-athletes, in the T2 time window, the difference between the theta band power generated in the general and specific situations was not significant $p = 0.728$, 95% IC [–0.15, 0.21](Fig. 5)."

In the Correlation analysis between delivery performance and duration judgment accuracy section the first sentence:

“The results of the correlation analysis show that the AEV of duration judgment was not correlated with the average value of delivery performance in general situations ($r = 0.277$, $P = 0.154$), while the AEV of duration judgment is highly negatively correlated with the average value of delivery performance in special situations ($r = -0.849$, $P < 0.000$).”

should be

“The results of the correlation analysis show that the AEV of duration judgment was not correlated with the average value of delivery performance in general situations ($r = 0.277$, $P = 0.154$), while the AEV of duration judgment is highly negatively correlated with the average value of delivery performance in special situations ($r = -0.849$, $p < 0.001$).”

The last sentence:

“The regression constant was 3.422, the regression coefficient was -0.001 , and the regression equation was $y = 3.422 + 1.415x$ (Table 2 and Fig. 6).”

should be

“The regression constant was 3.422, the regression coefficient was -0.001 , and the regression equation was $y = 3.422 - 0.001x$ (Table 2 and Fig. 6).”