

Supplementary materials

Pre-registered analyses

To investigate processing accuracy of angry and sad faces following and acute dose of alcohol, emotion specific hit rates and false alarms were analysed using 2 drink (alcohol, placebo) × 2 aggression (high, low) mixed ANOVAs; two for anger and two for sadness. In addition, 6AFC hit rates were also analysed using an exploratory 2 drink (alcohol, placebo) × 2 trait aggression (high, low) × 5 emotion (angry, sad, happy, disgust, fear) mixed model ANOVA.

Emotion specific hits. There was no evidence of a main effect of drink for anger ($F [1, 83] = .44, p = .510, \eta_p^2 = .005$) or sadness ($F [1, 83] = 1.78, p = .185, \eta_p^2 = .021$). There was also no evidence of a main effect of trait aggression for anger ($F [1, 83] = 2.11, p = .150, \eta_p^2 = .025$), but there was weak evidence of main effect for sadness ($F [1, 83] = 3.25, p = .075, \eta_p^2 = .038$) indicating more hits in the low trait aggressive group. There was also no evidence of drink by trait aggression interactions for anger ($F [1, 83] = .44, p = .510, \eta_p^2 = .005$) or sadness ($F [1, 83] = .00, p = .956, \eta_p^2 = .000$).

Emotion specific false alarms. There was no evidence of a main effect of drink for anger ($F [1, 83] = .01, p = .919, \eta_p^2 = .000$) or sadness ($F [1, 83] = 1.23, p = .270, \eta_p^2 = .015$). There was also no evidence of a main effect of trait aggression for anger ($F [1, 83] = 1.10, p = .297, \eta_p^2 = .013$) or sadness ($F [1, 83] = .00, p = .999, \eta_p^2 = .000$). There was also no evidence for a drink by trait aggression interaction for anger ($F [1, 83] = .57, p = .452, \eta_p^2 = .007$) or sadness ($F [1, 83] = .04, p = .849, \eta_p^2 = .000$).

Exploratory hits by emotion. There was evidence of main effect of drink ($F [1, 83] = 10.57, p = .002, \eta_p^2 = .113$), and emotion ($F [2.92, 242.47] = 225.40, p < .001, \eta_p^2 = .731$). There was no evidence of a main effect of trait aggression ($F [1, 83] = .50, p = .482, \eta_p^2 = .006$), drink by trait aggression interaction ($F [1, 83] = 1.30, p = .258, \eta_p^2 = .015$), emotion by trait aggression interaction ($F [2.92, 242.47] = 1.07, p = .361, \eta_p^2 = .013$), or drink by emotion interaction ($F [3.19, 264.77] = 1.89, p = .127, \eta_p^2 = .022$). There was also no evidence of a three-way interaction between drink, emotion and trait aggression ($F [3.19, 264.77] = 1.53, p = .204, \eta_p^2 = .018$).

Commented [AE1]: The study protocol was pre-registered on the Open Science Framework (doi: [10.17605/OSF.IO/YV392](https://doi.org/10.17605/OSF.IO/YV392)).

15) In response to reviewers' comments, analyses have been conducted in accordance with the pre-registered protocol.