

Appendix S1

SUPPLEMENTARY RESULTS

Does the severity or location of acute itch affect attentional bias (AB)?

Two analyses were conducted to understand whether the intensity or location of acute itch influences AB. First, the study examined whether the severity of acute itch is correlated with the AB score. When including the whole sample, no evidence was observed of bias score being significantly correlated with either mean itch ($r(58)=-0.12, p=0.363$) or peak itch ($r(58)=-0.18, p=0.179$). The same pattern of non-significance was observed when restricting the analysis to the participants of the histamine group (mean itch: $r(29)=0.01, p=0.967$; peak itch: $r(29)=0.10, p=0.610$).

In a second analysis, the current study tested whether the side of the itch stimulation interacts with the factors group, cue type and validity. Since the side at which the skin prick was applied (either left or right hand) was either congruent or incongruent to the side at which the cue word appeared in each trial (either left- or right-hand side of the screen), we computed and added a new factor "Side_Congruency" and introduced that as a 4th within-subject factor into an analysis of variance (ANOVA). This mixed 4-way ANOVA yielded only a significant main effect of validity ($F(1, 58)=79.06, p<0.001$) as well as a significant 3-way interaction of Validity×Cue type×Group ($F(1, 58)=6.38, p=0.014$), replicating the pattern of results obtained in the first ANOVA. None of the effects involving the factor Side_Congruency were significant (all $F<3.82$, all $p>0.055$).