**Supplementary Material**

**Supplementary Table S1**

*Separate regression analyses of harshness and unpredictability associations with immune measures and asthma outcomes (N=*290*).*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Stimulated cytokines | | | Glucocorticoid sensitivity | | | Asthma outcomes | |
|  | Innate | T1 | T2 | Innate | T1 | T2 | Asthma control | Quality of Life |
| Age | -.07  [-.11, -.03]\* | -.04  [-.08, .00] | .04  [.00, .08] | .03  [-.02, .07] | .00  [-.05, .03] | .02  [-.02, .06] | .12  [-.02, .27] | .06  [.02, .11]\* |
| White | .07  [-.15, .29] | -.23  [-.46, -.01]\* | -.29  [-.53, -.06]\* | -.10  [-.34, .14] | -.12  [-.36, .12] | -.05  [-.28, .17] | -.14  [-.85, .57] | .20  [-.03, .43] |
| Female | .16  [-.04, .37] | .02  [-.19, .24] | -.05  [-.29, .18] | -.11  [-.35, .13] | .05  [-.18, .27] | -.07  [-.28, .13] | -1.5  [-2.2, -.77]\* | -.43  [-.66, -.20]\* |
| Severity | -.04  [-.18, .10] | -.02  [-.15, .11] | .01  [-.14, .16] | .05  [-.07, .17] | -.04  [-.17, .09] | -.02  [-.16, .12] | -.53  [-.96, -.10]\* | -.18  [-.32, -.05]\* |
| Use of ICS | .03  [-.01, .07] | -.02  [-.05, .02] | -.04  [-.08, -.01]\* | .01  [-.03, .04] | .00  [-.04, .03] | .01  [-.02, .04] | .02  [-.10, .13] | .03  [-.01, .07] |
| Use of BA | -.01  [-.06, .04] | .03  [-.03, .08] | -.03  [-.09, .02] | .00  [-.05, .06] | -.01  [-.06, .03] | .00  [-.05, .05] | -.53  [-.71, -.34]\* | -.11  [-.18, -.05]\* |
| Harshness | .20  [.03, .37]\* | .05  [-.13, .23] | .04  [-.13, .22] | -.17  [-.34, -.01]\* | .03  [-.14, .21] | .00  [-.15, 15] | -.86  [-1.4, -.29]\* | -.28  [-.45, -.11]\* |

*Note*. \**p* < .05 Unstandardized regression coefficients [95% confidence intervals] are presented. Cluster-robust standard errors were presented for models with harshness as predictor to account for potential dependencies in neighborhood-level data. ICS refers to inhaled corticosteroid and BA refers to beta agonist. T1 and T2 refers to Type 1 and 2, respectively. Harshness was assessed with a composite that aggregated the *binary* score of neighborhood-level violence exposure and the binary score of self-reported exposure to violence. Pattern of results did not differ from primary analyses that aggregated the continuous score of neighborhood-level violence exposure and the binary score of self-reported exposure to violence.

**Supplementary Table S2**

*Simultaneous regression analysis of harshness and unpredictability associations with immune measures and asthma outcomes (N=*290*).*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Stimulated cytokines | | | Glucocorticoid sensitivity | | | Asthma outcomes | |
|  | Innate | T1 | T2 | Innate | T1 | T2 | Asthma control | Quality of Life |
| Age | -.07  [-.10, -.03]\* | -.04  [-.08, .00] | .04  [.00, .07] | .03  [-.02, .07] | -.01  [-.05, .04] | .02  [-.03, .06] | .13,  [-.02, .28] | .06  [.02, .11]\* |
| White | .06  [-.16, .28] | -.23  [-.46, .00] | -.29  [-.53, -.05]\* | -.10  [-.35, .14] | -.12  [-.36, .12] | -.04  [-.27, .18] | -.17  [-.89, .56] | .20  [-.03, .44] |
| Female | .17  [-.04, .37] | .02  [-.19, .24] | -.06  [-.29, .18] | -.11  [-.35, .13] | .05  [-.18, .27] | -.07  [-.28, .13] | -1.5  [-2.2, -.76]\* | -.43  [-.67, -.20]\* |
| Severity | -.04  [-.18, .10] | -.02  [-.15, .11] | .01  [-.14, .16] | .05  [-.07, .17] | -.04  [-.17, .09] | -.02  [-.16, .12] | -.53  [-.96, -.10]\* | -.18  [-.32, -.05]\* |
| Use of ICS | .03  [.00, .07] | -.02  [-.05, .02] | -.04  [-.08, -.01]\* | .01  [-.03, .05] | .00  [-.04, .03] | .01  [-.02, .04] | .02  [-.10, .13] | .03  [-.01, .07] |
| Use of BA | -.01  [-.06, .05] | .03  [-.03, .08] | -.03  [-.09, .02] | .01  [-.05, .06] | -.01  [-.06, .04] | .00  [-.05, .05] | -.52  [-.71, -.34]\* | -.12  [-.18, -.05]\* |
| Harshness | .21  [.04, .38]\* | .06  [-.13, .24] | .04  [-.14, .21] | -.17  [-.34, -.003]\* | .04  [-.14, .21] | -.01  [-.16, .14] | -.83  [-1.4, -.26]\* | -.29  [-.46, -.11]\* |
| Unpredictability | -.10  [-.24, .05] | -.05  [-.18, .09] | .05  [-.10, .19] | -.02  [-.17, .13] | -.01  [-.15, .13] | .07  [-.06, .21] | -.20  [-.71, .30] | .03  [-.12, .18] |

*Note*. \**p* < .05. Unstandardized regression coefficients [95% confidence intervals] are presented. Cluster-robust standard errors were presented to account for potential dependencies in neighborhood-level data. ICS refers to inhaled corticosteroid and BA refers to beta agonist. T1 and T2 refers to type 1 and 2, respectively. Harshness was assessed with a composite that aggregated the *binary* score of neighborhood-level violence exposure and the binary score of self-reported exposure to violence. Pattern of results did not differ from primary analyses that aggregated the continuous score of neighborhood-level violence exposure and the binary score of self-reported exposure to violence.