**Supplemental Material**

**Racist Hate Speech at School and its Association with Bystanders' Active Defending - The Protective Role of Immigrant Background**

**Supplementary Table 1**

*Descriptive Statistics*

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | All the sample | Immigration Background | Mean Comparison by Immigration Background  |
| No | Yes |
| *M* | *SD* | *M* | *SD* | *M* | *SD* | ANOVA | Partial η2 |
| Witnessing hate speech | 2.42 | 1.38 | 2.42 | 1.40 | 2.45 | 1.34 | F (1, 3,190) = 0.37, *p* = 0.543 | 0.000 |
| Witnessing racist hate1 speech | 50.3% | - | 47% | - | 57.5% | - | *χ2*(1) = 22.48, *p* < 0.001, *d* = 0.21 | - |
| Empathy | 3.63 | 0.96 | 3.61 | .95 | 3.65 | 0.97 | F (1, 3,156) = 1.62, *p* = 0.203 | 0.001 |
| Comforting the victim | 3.55 | 1.17 | 3.61 | 1.15 | 3.46 | 1.19 | F (1, 3,162) = 13.47, *p* < 0.000 | 0.004 |
| Seeking help at school | 2.69 | 1.19 | 2.75 | 1.17 | 2.61 | 1.21 | F (1, 3,172) = 11.13, *p* = 0.001 | 0.003 |
| Countering hate speech | 3.29 | 1.06 | 3.31 | 1.04 | 3.25 | 1.08 | F (1, 3,175) = 2.47, *p* = 0.116 | 0.001 |

1 For this question, the percentage of students who answered “*yes*” is displayed. This group comparison was made using a chi-squared distributional test.

**Supplementary Table 2**

*Bivariate Correlations Among the Study Variables*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. Witnessing hate speech | 0.05\* | -0.06\*\* | -0.09\*\* | -0.17\*\* | -0.07\* | 0.05\*\* | 0.04\* |
| 2. Witnessing racist hate speech | 0.02 | -0.05\* | -0.06\*\* | -0.02 | 0.10\*\* | <0.01 |
| 3. Empathy |  |  |  | 0.58\*\* | 0.40\*\* | 0.48\*\* | -0.06\*\* | 0.01 |
| 4. Comforting the victim |  |  |  | 0.41\*\* | 0.52\*\* | -0.07\*\* | 0.03 |
| 5. Seeking help at school |  |  |  |  | 0.51\*\* | -0.18\*\* | 0.01 |
| 6. Counter hate speech |  |  |  |  |  | -0.03 | 0.01 |
| 7. Grade |  |  |  |  |  |  |  | -0.02 |
| 8. Socioeconomic status |  |  |  |  |  |  |  |   |

Note: \**p* < 0.05, \*\**p* < 0.001.

**Supplementary Table 3**

*Multilevel Mediation Model to Predict Active Defending Bystander Responses. Results of the Complete Sample*

|  |  |  |  |
| --- | --- | --- | --- |
| **Predictor** | **Model 1 (Control Variables)** | **Model 2 (Direct Associations)** | **Model 3 (Indirect Associations)** |
| **B [95% CI ]** | **SE** | ***p*** | **β** | **B [95% CI ]** | **SE** | ***p*** | **β** | **B [95% CI ]** | **SE** | ***p*** | **β** |  |
|   | *Outcome: Comforting the Victim* |
| Gender1  | .65 [.59, .72] | .04 | <.001 | .29 | .26 [.20, .32] | .03 | <.001 | .12 | .25 [.20, .31] | .03 | <.001 | .11 |  |
| SES1 | .00 [-.01, .02] | .01 | .758 | .01 | .02 [.00, .03] | .01 | .030 | .04 | .02 [.00, .03] | .01 | .033 | .03 |  |
| Empathy1 |  |  |  |  | .64 [.60, .68] | .02 | <.001 | .52 | .64 [.61, .68] | .02 | <.001 | .52 |  |
| Grade 72 | .19 [.05, .32] | .08 | .020 | .13 | .16 [.03, .29] | .08 | .042 | .16 | .10 [.01, .19] | .06 | .077 | .10 |  |
| Grade 82 | .14 [.02, .27] | .08 | .062 | .10 | .12 [-.01, .25] | .08 | .118 | .12 | .10 [.00, .19] | .06 | .087 | .10 |  |
| Proportion students IB 2 | -.24 [-.44, -.05] | .12 | .037 | -.10 | -.19 [-.37, -.01] | .11 | .077 | -.12 | -.23 [-.38, -.08] | .09 | .013 | -.14 |  |
| Witnessing racist hate speech2 |  |  |  |  | -.41 [-.63, -.18] | .14 | .003 | -.24 | -.24 [-.40, -.07] | .10 | .019 | -.14 |  |
| Indirect association  |  |  |  |  |  |  |  |  | -.17 [-.29, -.05] | .07 | .017 | .00 |  |
|  | *Outcome: Seeking Help at the School* |
| Gender1  | .34 [.26, .41] | .05 | <.001 | .15 | .06 [-.02, .13] | .04 | .212 | .03 | .05 [-.02, .13] | .04 | .220 | .02 |  |
| SES1 | -.03 [-.04, -.01] | .01 | .005 | -.05 | -.01 [-.03, .00] | .01 | .134 | -.03 | -.01 [-.03, .00] | .01 | .127 | -.03 |  |
| Empathy1 |  |  |  |  | .47 [.43, .50] | .02 | <.001 | .38 | .47 [.43, .50] | .02 | <.001 | .38 |  |
| Grade 72 | .55 [.42, .67] | .08 | <.001 | .36 | .51 [.39, .63] | .07 | <.001 | .39 | .47 [.36, .57] | .06 | <.001 | .36 |  |
| Grade 82 | .26 [.15, .38] | .07 | <.001 | .17 | .23 [.12, .34] | .07 | .001 | .18 | .22 [.12, .32] | .06 | <.001 | .16 |  |
| Proportion students IB 2 | -.08 [-.27, .12] | .12 | .510 | -.03 | -.01 [-.19, .17] | .11 | .913 | -.01 | -.04 [-.20, .12] | .10 | .688 | -.02 |  |
| Witnessing racist hate speech2 |  |  |  |  | -.54 [-.74, -.34] | .12 | .000 | -.24 | -.42 [-.59, -.25] | .10 | <.001 | -.18 |  |
| Indirect association |  |  |  |  |  |  |  |  | -.12 [-.21, -.04] | .05 | .017 |  |  |
|  | *Outcome: Countering Hate Speech* |
| Gender1  | .37 [.30, .44] | .04 | <.001 | .19 | .07 [.01, .13] | .04 | .067 | .03 | .07 [.01, .13] | .04 | .066 | .03 |  |
| SES1 | .01 [.00, .03] | .01 | .227 | .02 | .02 [.01, .04] | .01 | .004 | .05 | .02 [.01, .04] | .01 | .004 | .05 |  |
| Empathy1 |  |  |  |  | .50 [.47, .54] | .02 | <.001 | .46 | .50 [.47, .54] | .02 | <.001 | .46 |  |
| Grade 72 | .10 [-.02, .22] | .07 | .160 | .07 | .07 [-.05, .19] | .07 | .321 | .06 | .03 [-.07, .13] | .06 | .649 | .02 |  |
| Grade 82 | .06 [-.06, .17] | .07 | .427 | .04 | .03 [-.08, .14] | .07 | .670 | .02 | .02 [-.08, .11] | .06 | .797 | .01 |  |
| Proportion students IB 2 | -.10 [-.29, .09] | .12 | .402 | -.04 | -.04 [-.23, .14] | .11 | .693 | -.02 | -.07 [-.23, .09] | .10 | .451 | -.03 |  |
| Witnessing racist hate speech2 |  |  |  |  | -.45 [-.64, -.25] | .12 | <.001 | -.21 | -.31 [-.48, -.14] | .10 | .002 | -.14 |  |
| Indirect association |  |  |  |  |  |  |  |  | -.13 [-.23, -.04] | .06 | .016 |  |  |
| AIC | 34,669.77 |  |  |  | 33,650.63 |  |  |  | 33,609.02 |  |  |  |  |
| R2 | Comforting = 2.8 %, Seeking = 9.8 %, Countering = .5 %  | Comforting = 9.4%, Seeking = 17.1%, Countering = 4.6%  | Comforting = 32.5 %, Seeking = 32.5%, Countering = 22.1 %  |

Note: 1 = student level variable, 2 = classroom level variable. IB = immigrant background Null model AIC = 37,563.28.

**Supplementary Table 4**

*Multilevel Mediation Model to Predict Active Defending Bystander Responses. Results for Students without an Immigration Background*

|  |  |  |  |
| --- | --- | --- | --- |
| **Predictor** | **Model 1 (Control Variables)** | **Model 2 (Direct Associations)** | **Model 3 (Indirect Associations)** |
| **B [95% CI ]** | **SE** | ***p*** | **β** | **B [95% CI ]** | **SE** | ***p*** | **β** | **B [95% CI ]** | **SE** | ***p*** | **β** |  |
|   | *Outcome: Comforting the Victim* |
| Gender1  | .70 [.62, .78] | .05 | .000 | .33 | .30 [.23, .37] | .04 | .000 | .14 | .29 [.23, .36] | .04 | .000 | .14 |  |
| SES1 | -.01 [-.03, .02] | .01 | .661 | -.01 | .01 [-.01, .03] | .01 | .430 | .02 | .01 [-.01, .03] | .01 | .498 | .01 |  |
| Empathy1 |  |  |  |  | .67 [.63, .72] | .03 | .000 | .56 | .67 [.63, .72] | .03 | .000 | .55 |  |
| Grade 72 | .16 [.00, .33] | .10 | .108 | .12 | .14 [-.01, .30] | .09 | .135 | .14 | .09 [-.03, .21] | .07 | .207 | .09 |  |
| Grade 82 | .14 [-.02, .29] | .10 | .152 | .10 | .14 [-.01, .29] | .09 | .126 | .14 | .11 [.00, .23] | .07 | .098 | .11 |  |
| Proportion students IB 2 | .24 [-.03, .50] | .16 | .142 | .09 | .32 [.06, .58] | .16 | .042 | .18 | .05 [-.17, .27] | .13 | .696 | .03 |  |
| Witnessing racist hate speech2 |  |  |  |  | -.43 [-.69, -.17] | .16 | .006 | -.24 | -.13 [-.32, .07] | .12 | .276 | -.07 |  |
| Indirect association |  |  |  |  |  |  |  |  | -.29 [-.43, -.16] | .08 | <.001 |  |  |
|  | *Outcome: Seeking Help at the School* |
| Gender1  | .33 [.24, .42] | .06 | .000 | .15 | .06 [-.03, .15] | .06 | .275 | .03 | .06 [-.03, .15] | .06 | .266 | .03 |  |
| SES1 | -.02 [-.04, .00] | .01 | .132 | -.03 | -.01 [-.03, .01] | .01 | .509 | -.01 | -.01 [-.03, .01] | .01 | .504 | -.01 |  |
| Empathy1 |  |  |  |  | .46 [.41, .51] | .03 | .000 | .38 | .45 [.41, .50] | .03 | .000 | .37 |  |
| Grade 72 | .50 [.34, .65] | .09 | .000 | .35 | .46 [.32, .61] | .09 | .000 | .38 | .43 [.29, .56] | .08 | .000 | .34 |  |
| Grade 82 | .29 [.14, .44] | .09 | .001 | .20 | .28 [.15, .42] | .08 | .001 | .23 | .27 [.14, .40] | .08 | .001 | .21 |  |
| Proportion students IB 2 | .20 [-.08, .48] | .17 | .233 | .08 | .31 [.04, .58] | .17 | .059 | .14 | .13 [-.13, .39] | .16 | .405 | .06 |  |
| Witnessing racist hate speech2 |  |  |  |  | -.58 [-.81, -.35] | .14 | .000 | -.26 | -.37 [-.58, -.16] | .13 | .003 | -.16 |  |
| Indirect association |  |  |  |  |  |  |  |  | -.20 [-.29, -.11] | .06 | <.001 |  |  |
|  | *Outcome: Countering Hate Speech* |
| Gender1  | .32 [.23, .41] | .05 | .000 | .17 | .02 [-.06, .09] | .05 | .745 | .01 | .01 [-.06, .09] | .05 | .765 | .01 |  |
| SES1 | .02 [-.01, .04] | .01 | .245 | .03 | .03 [.01, .05] | .01 | .016 | .06 | .03 [.01, .05] | .01 | .017 | .06 |  |
| Empathy1 |  |  |  |  | .51 [.46, .56] | .03 | .000 | .48 | .51 [.47, .56] | .03 | .000 | .47 |  |
| Grade 72 | .07 [-.07, .22] | .09 | .404 | .05 | .05 [-.09, .18] | .08 | .562 | .04 | .01 [-.11, .13] | .07 | .924 | .01 |  |
| Grade 82 | .08 [-.07, .22] | .09 | .378 | .05 | .08 [-.05, .21] | .08 | .329 | .07 | .06 [-.05, .18] | .07 | .350 | .05 |  |
| Proportion students IB 2 | .05 [-.21, .32] | .16 | .740 | .02 | .13 [-.12, .39] | .16 | .387 | .06 | -.07 [-.29, .15] | .13 | .605 | -.03 |  |
| Witnessing racist hate speech2 |  |  |  |  | -.46 [-.67, -.25] | .13 | .000 | -.22 | -.22 [-.41, -.04] | .11 | .046 | -.10 |  |
| Indirect association |  |  |  |  |  |  |  |  | -.23 [-.33, -.13] | .06 | <.001 |  |  |
| AIC | 20,131.51 |  |  |  | 19,464.86 |  |  |  | 19,435.78 |  |  |  |  |
| R2 | Comforting = 10.8 %, Seeking = 2.5 %, Countering = 2.9 %  | Comforting = 37.7 %, Seeking = 15.2 %, Countering = 23.1 %  | Comforting = 37.3 %, Seeking = 14.8 %, Countering = 22.8 %  |

Note: 1 = student level variable, 2 = classroom level variable. IB = immigration background. Null model AIC = 21,957.01.

**Table 5**

*Multilevel Mediation Model to Predict Active Defending Bystander Responses. Results for Students with an Immigration Background*

|  |  |  |
| --- | --- | --- |
| **Predictor** | **Model 1 (Control Variables)** | **Model 2 (Direct Associations)** |
| **B [95% CI ]** | **SE** | ***p*** | **β** | **B [95% CI ]** | **SE** | ***p*** | **β** |
|   | *Outcome: Comforting the Victim* |  |
| Gender1  | .57 [.46, .69] | .07 | .000 | .25 | .19 [.09, .29] | .06 | .002 | .08 |
| SES1 | .01 [-.02, .03] | .02 | .685 | .01 | .02 [.00, .04] | .01 | .101 | .04 |
| Empathy1 |  |  |  |  | .62 [.56, .67] | .03 | .000 | .51 |
| Grade 72 | .15 [.00, .31] | .10 | .104 | .13 | .13 [-.02, .29] | .09 | .155 | .17 |
| Grade 82 | .09 [-.07, .25] | .10 | .349 | .08 | .07 [-.10, .23] | .10 | .494 | .08 |
| Proportion students IB 2 | -.57 [-.82, -.32] | .15 | .000 | -.26 | -.53 [-.77, -.29] | .14 | .000 | -.37 |
| Witnessing racist hate speech2 |  |  |  |  | -.41 [-.70, -.11] | .18 | .024 | -.28 |
|  | *Outcome: Seeking Help at the School* |  |
| Gender1  | .32 [.20, .44] | .07 | .000 | .14 | .03 [-.10, .15] | .08 | .733 | .01 |
| SES1 | -.05 [-.07, -.02] | .02 | .004 | -.09 | -.03 [-.06, .00] | .02 | .058 | -.06 |
| Empathy1 |  |  |  |  | .48 [.42, .54] | .04 | .000 | .40 |
| Grade 72 | .57 [.40, .75] | .11 | .000 | .40 | .55 [.38, .72] | .10 | .000 | .48 |
| Grade 82 | .16 [.01, .32] | .09 | .074 | .12 | .13 [-.02, .29] | .09 | .146 | .11 |
| Proportion students IB 2 | -.20 [-.46, .06] | .16 | .214 | -.08 | -.16 [-.41, .10] | .15 | .305 | -.08 |
| Witnessing racist hate speech2 |  |  |  |  | -.46 [-.74, -.18] | .17 | .006 | -.22 |
|  | *Outcome: Countering Hate Speech* |  |
| Gender1  | .43 [.33, .53] | .06 | .000 | .22 | .13 [.03, .23] | .06 | .025 | .06 |
| SES1 | .00 [-.02, .03] | .01 | .793 | .01 | .02 [.00, .04] | .01 | .156 | .04 |
| Empathy1 |  |  |  |  | .49 [.44, .55] | .03 | .000 | .46 |
| Grade 72 | .09 [-.07, .25] | .10 | .350 | .06 | .07 [-.09, .23] | .10 | .468 | .06 |
| Grade 82 | -.03 [-.19, .12] | .09 | .729 | -.02 | -.06 [-.22, .09] | .10 | .510 | -.05 |
| Proportion students IB 2 | -.25 [-.51, .01] | .16 | .118 | -.10 | -.22 [-.47, .04] | .15 | .162 | -.11 |
| Witnessing racist hate speech2 |  |  |  |  | -.42 [-.71, -.14] | .17 | .015 | -.20 |
| AIC | 14,489.86 |  |  |  | 14,136.07 |  |  |  |
| R2 | Comforting = 6.4 %, Seeking = 3 %, Countering = 4.7 %  | Comforting = 25.2 %, Seeking = 24.1 %, Countering = 6.6 %  |

Note: 1 = student level variable, 2 = classroom level variable. IB = immigration background. Null model AIC = 15,493.24. Model 3

(Indirect Associations) was not estimated for this subsample as classroom racist hate speech (predictor variable) did not have a statistically significant association with empathy (moderator variable) (B = -0.03, 95 % CI [-0.30, 0.21], *p* = 0.854.