|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Supplemental Table. Effects of control variables for each MG-LGM | | | | |
|  | **Empathy** | **Parental Monitoring** | **School Belonginga** | **Social Support** |
| **SV Perpetrators** |  |  |  |  |
| **Intercept** |  |  |  |  |
| Female | .176 (.073)\* | 0.929 (.321)\* | 0.202 (.132) | 0.430 (.182)\* |
| Nonwhite | -.276 (.076)\* | -1.415 (.385)\* | -0.304 (.158) | -1.099 (.219)\* |
| SES | .115 (.087) | -0.744 (.486) | -0.254 (.200) | -0.134 (.276) |
| Substance Use | .005 (.121) | -0.892 (1.21) | -1.049 (.495)\* | -0.567 (.683) |
| Impulsivity | .004 (.162) | -0.090 (.444) | -0.417 (.182)\* | -0.191 (.252) |
| Family Violence | .100 (.082) | -0.644 (.387) | 0.053 (.159) | -0.355 (.220) |
| Parental Violence | -.240 (.077)\* | -3.400 (1.84) | -0.400 (.757) | -0.231 (1.05) |
| Bullying | .192 (.121) | 2.668 (.643)\* | 0.403 (.264) | 0.106 (.365) |
| Middle School SV Perp | -.124 (.029)\* | -1.268 (.135)\* | -0.036 (.056) | 0.308 (.077)\* |
| **Slope** |  |  |  |  |
| Female | -0.183 (.027)\* | 0.087 (.057) | 0.033 (.023) | -0.016 (.040) |
| Nonwhite | 0.255 (.029)\* | -0.110 (.068) | -0.014 (.028) | -0.131 (.049)\* |
| SES | 0.311 (.033)\* | 0.016 (.086) | 0.023 (.035) | 0.114 (.062) |
| Substance Use | 0.231 (.061)\* | 0.821 (.214)\* | -0.051 (.087) | 0.196 (.152) |
| Impulsivity | 0.034 (.031) | -0.188 (.079)\* | -0.038 (.032) | 0.061 (.056) |
| Family Violence | -0.081 (.029)\* | 0.097 (.069) | 0.014 (.028) | -0.134 (.049)\* |
| Parental Violence | -0.350 (.143)\* | 0.010 (.328) | -0.231 (.134) | 0.239 (.233) |
| Bullying | 0.247 (.046)\* | 0.282 (.114)\* | 0.165 (.047)\* | -0.064 (.081) |
| Middle School SV Perp | -0.009 (.011) | -0.117 (.024)\* | 0.036 (.010)\* | 0.100 (.017)\* |
| **SV Non-Perpetrators** |  |  |  |  |
| **Intercept** |  |  |  |  |
| Female | 0.066 (.027)\* | 0.965 (.153)\* | 0.005 (.055) | 0.302 (.086)\* |
| Nonwhite | -0.101 (.028)\* | -0.945 (.160)\* | -0.209 (.058)\* | -0.698 (.090)\* |
| SES | 0.037 (.028) | 0.066 (.182) | -0.053 (.066) | 0.301 (.102)\* |
| Substance Use | 0.001 (.029) | -1.251 (.341)\* | -0.415 (.123)\* | -0.404 (.191)\* |
| Impulsivity | 0.041 (.034) | 0.075 (.172) | -0.107 (.062) | -0.265 (.096)\* |
| Family Violence | -0.111 (.036)\* | -0.886.(.162)\* | -0.214 (.059)\* | -0.286 (.091)\* |
| Parental Violence | -0.016 (.033) | -0.748 (.800) | 0.040 (.289) | -0.654 (.447) |
| Bullying | 0.054 (.034) | 0.110 (.255) | -0.113 (.092) | -0.150 (.142) |
| Middle School SV Perp | -0.133 (.031)\* | -0.604 (.031)\* | -0.033 (.022) | 0.363 (.034)\* |
| **Slope** |  |  |  |  |
| Female | -0.153 (.023)\* | 0.019 (.027) | -0.039 (.010)\* | -0.070 (.020)\* |
| Nonwhite | 0.207 (.023)\* | -0.052 (.029) | 0.026 (.011)\* | -0.055 (.021)\* |
| SES | 0.222 (.034)\* | 0.046 (.033) | 0.040 (.012)\* | 0.157 (.024)\* |
| Substance Use | 0.092 (.024)\* | 0.355 (.061)\* | 0.028 (.023) | 0.095 (.045)\* |
| Impulsivity | 0.031 (.028) | -0.088 (.031)\* | 0.033 (.012)\* | 0.025 (.023) |
| Family Violence | -0.083 (.030)\* | 0.055 (.029) | 0.002 (.011) | -0.005 (.021) |
| Parental Violence | -0.067 (.027)\* | -0.029 (.146) | -0.061 (.052) | -0.082 (.105) |
| Bullying | 0.153 (.028)\* | 0.155 (.046)\* | 0.054 (.017)\* | -0.040 (.234) |
| Middle School SV Perp | -0.022 (.026) | -0.020 (.011) | 0.021 (.004)\* | 0.099 (.008)\* |
|  |  |  |  |  |
| *Note*: all models controlled for various risk factors and demographic characteristics including: self-reported age, race, biological sex, and maternal education (high school or less as reference group), history of trauma (childhood sexual abuse, physical abuse, exposure to domestic violence), family violence (e.g., yelling, arguing, losing temper, fights by family members), substance use (alcohol, marijuana, illicit drug use), bullying (e.g., teasing, name calling, social exclusion), middle school SV perpetration, and impulsivity.  a Model fitting indicated no difference when relaxing equality constraints on intercepts and slopes. However, to test this empirically we lifted these constraints. Thus, the model results shown here have different intercepts and slopes.  *\*p < .05* | | | | |