Supplemental Materials

Table S1. Externalizing Behavior Moderated Mediation Model

Effects for Externalizing Behavior (EB) Intercept Factor	EST	SE	STD	$p<$
Intercept Factor				
Mean	1.45	0.08	1.69	.01
Variance	0.66	0.04	0.89	.01
Covariance with Slope Factor	−0.09	0.04	−0.22	.02
Direct Effects				
Impulsiveness (IMP)	0.23	0.05	0.27	.01
Sensation Seeking (SS)	0.23	0.06	0.27	.01
IMP x SS	0.13	0.05	0.21	.01
Gender (Girl = 0, Boy = 1)	−0.06	0.10	−0.04	.53

Effects for Externalizing Behavior (EB) Slope Factor	EST	SE	STD	$p<$
Slope Factor				
Slope Factor Mean	−0.16	0.09	−0.32	.06
Slope Factor Variance	0.25	0.07	0.96	.01
Direct Effects				
Impulsiveness (IMP)	−0.08	0.05	−0.16	.09
Sensation Seeking (SS)	−0.08	0.07	−0.15	.26
IMP x SS	−0.08	0.05	−0.22	.13
Gender (Girl = 0, Boy = 1)	0.00	0.08	0.00	.97

Effects for Marijuana Use Frequency	EST	SE	STD	$p<$
Impulsiveness (IMP)	0.22	0.20	0.10	.27
Sensation Seeking (SS)	0.31	0.24	0.14	.19
IMP x SS	−0.44	0.25	−0.28	.07
EB Intercept Factor	0.69	0.20	0.27	.01
EB Slope Factor	0.57	0.57	0.14	.32
Gender (Girl = 0, Boy = 1)	0.09	0.35	0.02	.80

Note. EST = unstandardized estimate; SE = standard error; STD = standardized estimate. Impulsiveness was centered at one SD above the mean and sensation seeking was centered at the mean.

The indirect effect from sensation seeking to marijuana use though the EB intercept factor was significant, $\beta = 0.02$ [0.01, 0.05]. The model had excellent overall fit (indices obtained via WLSMV estimation): $\chi^2 = 33.31$, $df = 24$, $p = .10$; CFI $= .99$; RMSEA [90% CI] $= .03$ [.00, .06].

Table S2. Internalizing Behavior Moderated Mediation Model

Effects for Internalizing Behavior (IB) Intercept Factor	EST	SE	STD	p<
Intercept Factor				
Mean	0.63	0.06	1.03	.01
Variance	0.33	0.03	0.89	.01
Covariance with Slope Factor	−0.02	0.03	−0.10	.40
Direct Effects				
Impulsiveness (IMP)	0.17	0.03	0.27	.01
Sensation Seeking (SS)	−0.12	0.05	−0.20	.02
IMP x SS	0.10	0.04	0.23	.01
Gender (Girl = 0, Boy = 1)	−0.18	0.07	−0.15	.01

Effects for Internalizing Behavior (IB) Slope Factor	EST	SE	STD	p<
Slope Factor				
Slope Factor Mean	0.15	0.09	0.38	.07
Slope Factor Variance	0.16	0.08	0.99	.04
Direct Effects				
Impulsiveness (IMP)	−0.04	0.04	−0.10	.31
Sensation Seeking (SS)	0.04	0.05	0.10	.45
IMP x SS	−0.02	0.04	−0.06	.65
Gender (Girl = 0, Boy = 1)	−0.03	0.08	−0.03	.75

Effects for Marijuana Use Frequency	EST	SE	STD	p<
Impulsiveness (IMP)	0.18	0.21	0.08	.38
Sensation Seeking (SS)	1.42	0.42	0.63	.01
IMP x SS	−0.53	0.24	−0.33	.03
IB Intercept Factor	1.09	0.34	0.30	.01
IB Slope Factor	0.57	0.57	0.10	.31
Gender (Girl = 0, Boy = 1)	0.33	0.37	0.07	.38

Note. EST = unstandardized estimate; SE = standard error; STD = standardized estimate. Impulsiveness was centered at one SD above the mean and sensation seeking was centered at the mean.

The indirect effect from sensation seeking to marijuana use though the IB intercept factor was significant, $\beta = 0.02$ [0.01, 0.05]. The model had excellent overall fit (indices obtained via WLSMV estimation): $\chi^2 = 33.31$, $df = 24$, $p = .10$; CFI = .99; RMSEA [90% CI] = .03 [.00, .06].