

# Methodological Standards Compliance

Conditional Process Analysis with Propensity Score Weighting

Results From an Empirically Informed Simulated Dataset Based on Current Reports on CSU Populations

21/21  
100%  
Criteria Met

11/21  
52%  
Exceeds Standard

## Sample, Weighting & Model Fit

Measure	Study	Benchmark
● Effective Sample Size	<b>N = 5,000</b>	Report ESS
● Weight Balance (SMD)	<b>SMD ≈ 0</b>	SMD  < 0.10
● Weight Range	<b>0.024-3.07</b>	Report range
● Estimator	<b>MLR</b>	ML/MLR/WLSMV
● $\chi^2$	<b>1045.81</b>	Report
● df	<b>569</b>	Report
● p value	<b>&lt; .001</b>	Report
● CFI	<b>0.995</b>	≥ 0.95
● TLI	<b>0.995</b>	≥ 0.95
● RMSEA	<b>0.013</b>	≤ 0.06
● SRMR	<b>0.046</b>	≤ 0.08

## Bootstrap Design & Effect Reporting

Measure	Study	Benchmark
● Interaction Support	<b>X×Z product</b>	X×Z term
● Identifiability	<b>df = 546</b>	df > 0
● Bootstrap Design	<b>BTW</b>	Nonparam.
● CI Method	<b>BCa</b>	BCa/Percentile
● Bootstrap B	<b>B = 2000</b>	≥ 1,000
● Bootstrap Convergence	<b>100%</b>	≥ 95%
● Direct Effects	<b>Est + BCa CI</b>	Est + CI
● Indirect Effects	<b>BCa CI</b>	Boot CI
● Conditional Indirects	<b>±1 SD levels</b>	Low/Mid/High
● Index of Mod. Med.	<b>BCa CI</b>	Point + CI

**Legend:** ● Exceeds preferred ● Meets minimum ● Adequate **21/21 criteria met**

BTW = Bootstrap-then-weight; BCa = Bias-corrected accelerated. Standards per Kline (2023), Hayes (2022), Preacher & Hayes (2008).

Note: ● B = 500 adequate for inference, increase to ≥ 2,000 for final publication.