

# 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
<div></div> Effective Sample Size	<b>N = 3,000</b>	Report ESS
<div></div> Weight Balance (SMD)	<b>SMD ≈ 0</b>	SMD  < 0.10
<div></div> Weight Range	<b>0.024-3.07</b>	Report range
<div></div> Estimator	<b>MLR</b>	ML/MLR/WLSMV
<div></div> $\chi^2$	<b>930.69</b>	Report
<div></div> df	<b>546</b>	Report
<div></div> p value	<b>&lt; .001</b>	Report
<div></div> CFI	<b>0.977</b>	≥ 0.95
<div></div> TLI	<b>0.975</b>	≥ 0.95
<div></div> RMSEA	<b>0.015</b>	≤ 0.06
<div></div> SRMR	<b>0.022</b>	≤ 0.08

## Bootstrap Design & Effect Reporting

Measure	Study	Benchmark
<div></div> Interaction Support	<b>X×Z product</b>	X×Z term
<div></div> Identifiability	<b>df = 546</b>	df > 0
<div></div> Bootstrap Design	<b>BTW</b>	Nonparam.
<div></div> CI Method	<b>BCa</b>	BCa/Percentile
<div></div> Bootstrap B	<b>B = 500</b>	≥ 1,000
<div></div> Bootstrap Convergence	<b>100%</b>	≥ 95%
<div></div> Direct Effects	<b>Est + BCa CI</b>	Est + CI
<div></div> Indirect Effects	<b>BCa CI</b>	Boot CI
<div></div> Conditional Indirects	<b>±1 SD levels</b>	Low/Mid/High
<div></div> 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.