

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 | N = 5,000 | Report ESS |
| ● Weight Balance (SMD) | SMD ≈ 0 | SMD < 0.10 |
| ● Weight Range | 0.024-3.07 | Report range |
| ● Estimator | MLR | ML/MLR/WLSMV |
| ● χ^2 | 1045.81 | Report |
| ● df | 569 | Report |
| ● p value | < .001 | Report |
| ● CFI | 0.995 | ≥ 0.95 |
| ● TLI | 0.995 | ≥ 0.95 |
| ● RMSEA | 0.013 | ≤ 0.06 |
| ● SRMR | 0.046 | ≤ 0.08 |

Bootstrap Design & Effect Reporting

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