

Checklist for Report of Multilevel Study

<i>Could the reader answer the following general questions about the study?</i>	Yes	N/A
✓ What were the purposes/research questions for the study?	<input type="checkbox"/>	<input type="checkbox"/>
✓ Was the literature reviewed consistent with the study purposes and methods?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What sampling strategy was used at each level (e.g., probability)?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What sampling weights, if any, were used?	<input type="checkbox"/>	<input type="checkbox"/>
✓ How many units were at each level of the analysis?	<input type="checkbox"/>	<input type="checkbox"/>
✓ How were lower-level units distributed across upper-level units?	<input type="checkbox"/>	<input type="checkbox"/>
✓ Was a power analysis used to determine the number of units at each level?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What study design was used (e.g., experimental, quasi-experimental)?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What variables were used in the analyses?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What is the validity evidence for each variable?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What is the reliability evidence for each variable?	<input type="checkbox"/>	<input type="checkbox"/>
<i>Could the reader answer the following questions about model specification?</i>	Yes	N/A
✓ How many models were estimated?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What were the fixed effects in each estimated model?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What was the covariance structure of each estimated model?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What process was used to define the fixed effects for each model?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What process was used to define the covariance structure for each model?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What method was used to evaluate model fit?	<input type="checkbox"/>	<input type="checkbox"/>
✓ How was each variable centered, coded, or scaled?	<input type="checkbox"/>	<input type="checkbox"/>
<i>Could the reader answer the following questions about estimation and inference?</i>	Yes	N/A
✓ What software and version were used?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What method of estimation was used (e.g., REML, ML)?	<input type="checkbox"/>	<input type="checkbox"/>
✓ Were estimation problems (e.g., improper variance estimates) encountered?	<input type="checkbox"/>	<input type="checkbox"/>
✓ If estimation problems were encountered, how were they addressed?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What methods were used to make inferential statements?	<input type="checkbox"/>	<input type="checkbox"/>
<i>Could the reader answer the following questions about the data?</i>	Yes	N/A
✓ What was the structure of the data (e.g., students nested in schools)?	<input type="checkbox"/>	<input type="checkbox"/>
✓ How were the variables and level-1 coefficients distributed?	<input type="checkbox"/>	<input type="checkbox"/>
✓ To what degree were variables correlated?	<input type="checkbox"/>	<input type="checkbox"/>
✓ Were data missing? And if so, how were they treated?	<input type="checkbox"/>	<input type="checkbox"/>
✓ To what degree did missing data impact the results?	<input type="checkbox"/>	<input type="checkbox"/>
✓ Were there outliers? And if so, how were they identified and handled?	<input type="checkbox"/>	<input type="checkbox"/>
✓ To what degree did outliers influence the results?	<input type="checkbox"/>	<input type="checkbox"/>
✓ To what degree were the data consistent with the distributional assumptions?	<input type="checkbox"/>	<input type="checkbox"/>
✓ To what degree were the results sensitive to questionable assumptions?	<input type="checkbox"/>	<input type="checkbox"/>
<i>Could the reader answer the following questions about the results?</i>	Yes	N/A
✓ Which specific results addressed each research question?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What was the ICC?	<input type="checkbox"/>	<input type="checkbox"/>
✓ What was the estimated value of each parameter in each interpreted model?	<input type="checkbox"/>	<input type="checkbox"/>
✓ How precise was each estimate (e.g., SE, CI)?	<input type="checkbox"/>	<input type="checkbox"/>
✓ How do the limitations impact interpretation?	<input type="checkbox"/>	<input type="checkbox"/>

N/A = Not applicable