

Multimedia Appendix 6

Results of the Mixed Methods Appraisal Tool (MMAT)

Types of study design	Methodological quality criteria	Iskander et al. 2016	Jones et al. 2020	Litovitz et al. 2016	Richmond et al. 2019	Roberts et al. 2016
Screening questions (for all types)	S1. Are there clear research questions resp. objectives?	✓	✓	✓	✓	✓
	S2. Do the collected data allow to address the research questions/objectives?	✓	✓	✓	?	✓
1. Qualitative	1.1. Is the qualitative approach appropriate to answer the research question?	–	✓	–	✓	✓
	1.2. Are the qualitative data collection methods adequate to address the re- search question?	–	✓	–	✓	✓
	1.3. Are the findings adequately derived from the data?	–	?	–	?	✓
	1.4. Is the interpretation of results sufficiently substantiated by data?	–	✓	–	x	✓
	1.5. Is there coherence between qualitative data sources, collection, analysis and interpretation?	–	✓	–	?	✓
2. Randomized controlled trials	Not applicable	–	–	–	–	–
3. Non-randomized studies	3.1. Are the participants representative of the target population?	x	–	–	–	–
	3.2. Are measurements appropriate regarding both the outcome and interven- tion (or exposure)?	✓	–	–	–	–
	3.3. Are there complete outcome data?	✓	–	–	–	–
	3.4. Are the confounders accounted for in the design and analysis?	?	–	–	–	–
	3.5. During the study period, is the intervention administered (or exposure oc- curred) as intended?	?	–	–	–	–
4. Quantitative descriptive	4.1. Is the sampling strategy relevant to address the research question?	–	–	✓	–	✓
	4.2. Is the sample representative of the target population?	–	–	x	–	x
	4.3. Are the measurements appropriate?	–	–	?	–	✓
	4.4. Is the risk of nonresponse bias low?	–	–	x	–	?
	4.5. Is the statistical analysis appropriate to answer the research question?	–	–	✓	–	✓
5. Mixed methods	5.1. Is there an adequate rationale for using a mixed methods design to address the research question?	–	–	–	–	✓
	5.2. Are the different components of the study effectively integrated to answer the research question?	–	–	–	–	✓
	5.3. Are the outputs of the integration of qualitative and quantitative compo- nents adequately interpreted?	–	–	–	–	✓
	5.4. Are divergences and inconsistencies between quantitative and qualitative results adequately addressed?	–	–	–	–	x
	5.5. Do the different components of the study adhere to the quality criteria of each tradition of the methods involved?	–	–	–	–	✓
Score		40 %	80 %	40 %	40 %	80 %

Note: "✓" = yes; „x" = no; „?" = cannot tell; "–" = not applicable