**Appendix 1.** Mixed Methods Appraisal Tool (MMAT) version 2018

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Category of study design** | **Methodological quality criteria** | Responses | | | |
| Yes | No | Can’t tell | Comments |
| **Screening questions (for all types)** | **S1.** Are there clear research questions? |  |  |  |  |
| **S2.** Do the collected data allow to address the research questions? |  |  |  |  |
| *Further appraisal may not be feasible or appropriate when the answer is “No” or “Can’t tell” to one or both screening questions.* | | | | |
| 1. **Qualitative** | * 1. Is the qualitative approach appropriate to answers the research question? |  |  |  |  |
| * 1. Are the qualitative data collection methods adequate to address the research question? |  |  |  |  |
| * 1. Are the findings adequately derived from the data? |  |  |  |  |
| * 1. Is the interpretation of results sufficiently substantiated by data? |  |  |  |  |
| * 1. Is there coherence between qualitative data sources, collection, analysis and interpretation? |  |  |  |  |
| 1. **Quantitative randomized controlled trials** | * 1. Is randomization appropriately performed? |  |  |  |  |
| * 1. Are the groups comparable at baseline? |  |  |  |  |
| * 1. Are there complete outcome data? |  |  |  |  |
| * 1. Are outcome assessors blinded to the interventions provided? |  |  |  |  |
| * 1. Did the participants adhere to the assigned intervention? |  |  |  |  |
| 1. **Quantitative non-randomized** | * 1. Are the participants representative of the target population? |  |  |  |  |
| * 1. Are measurements appropriate regarding both the outcome and interventions (or exposure)? |  |  |  |  |
| * 1. Are the complete outcome data? |  |  |  |  |
| * 1. Are the confounders accounted for in the design and analysis? |  |  |  |  |
| * 1. During the study period, is the interventions administered (or exposure occured) as intended? |  |  |  |  |
| 1. **Quantitative descriptive** | * 1. Is the sampling strategy relevant to address the research question? |  |  |  |  |
| * 1. Is the sample represantative of the target population? |  |  |  |  |
| * 1. Are the measurements appropriate? |  |  |  |  |
| * 1. Is the risk of nonresponse bias low? |  |  |  |  |
| * 1. Is the statistical analysis appropriate to answer the research question? |  |  |  |  |
| 1. **Mixed methods** | * 1. Is there an adequate rationale for using a mixed methods design to address the research question? |  |  |  |  |
| * 1. Are the different components of the study effectively integrated to answer the research question? |  |  |  |  |
| * 1. Are the outputs of the integration of qualitative and quantitative components adequately interpreted? |  |  |  |  |
| * 1. Are divergences and inconsistencies between quantitative and qualitative results adequately addressed? |  |  |  |  |
| * 1. Do the different components of the study adhere to the quality criteria of each tradition of the methods involved? |  |  |  |  |