

# Supplementary material

*Strengthening the Integration of Intersectionality Theory in Health Inequality Analysis (SIITHIA)*

## *checklist*

| Study/ Report section | Item | Promising practice                                                                                                                                                                                                                                    | Page                         |
|-----------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Introduction</b>   |      |                                                                                                                                                                                                                                                       |                              |
| Background/ Rationale | 1.   | Provide a well-referenced definition of intersectionality theory, which alludes to its central principles*                                                                                                                                            | Error! Bookmark not defined. |
|                       | 2.   | Describe inequalities that are consistently observed between population groups, which are assumed to be avoidable, as "unjust/unfair" and requiring action.                                                                                           | Error! Bookmark not defined. |
|                       | 3.   | Describe the known determinants of the outcome of interest that operate at, and above, the individual level.                                                                                                                                          | Error! Bookmark not defined. |
|                       | 4.   | State and describe underlying assumptions underpinning the study, including a reflexivity* or positionality* statement from the research team.                                                                                                        | Error! Bookmark not defined. |
|                       | 5.   | Integrate and summarize evidence developed through research and analysis that involve populations that are affected by the inequalities under study or forms of knowledge that have been under-represented in public health practice.                 | Error! Bookmark not defined. |
| Objectives            | 6.   | Draw on, and describe literature and complementary theoretical frameworks (including those from outside the field of health sciences), as needed, to justify and frame the research questions and objectives.                                         | Error! Bookmark not defined. |
|                       | 7.   | Explore one or more objectives relevant to intersectionality theory: Exploring to what extent observed health and social inequalities are explained by a given sub-set of characteristics or factors at the individual, community, or societal level. | Error! Bookmark not defined. |
|                       | 8.   | Engage with people and populations that are affected by the inequalities under study when establishing research questions and objectives.                                                                                                             | Error! Bookmark not defined. |
| <b>Methods</b>        |      |                                                                                                                                                                                                                                                       |                              |
|                       | 9.   | Engage with populations that are affected by the inequalities under study, when designing the methods.                                                                                                                                                | Error! Bookmark not defined. |
| Data source(s)        |      | Where possible and relevant to the research question:                                                                                                                                                                                                 |                              |
|                       | 10.  | Collect or use data that allow a comparison of outcomes across intersecting social positions*.                                                                                                                                                        | Error! Bookmark not defined. |

|          |     |                                                                                                                                                                                                                      |                              |
|----------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|          | 11. | Collect or use data that allow for an assessment of heterogeneity in determinants and outcomes* across social or spatial units of aggregation (e.g., schools, regions).                                              | Error! Bookmark not defined. |
|          | 12. | Collect or use data that allow for an assessment of heterogeneity in outcomes across time (including temporal contexts based on calendar time, and inter-generational and lifecourse perspectives).                  | Error! Bookmark not defined. |
|          | 13. | Collect or use data that allows for an assessment of independent measures that are hypothetically modifiable, and therefore amenable to intervention.                                                                | Error! Bookmark not defined. |
|          | 14. | Collect or use qualitative data (e.g., using interviews, focus groups, open-ended survey questions, program evaluations, etc.) to complement quantitative data sources, in a mixed-methods research design approach. | -                            |
| Measures |     | Where relevant to the research question, operationalize independent measures that enable an assessment of outcomes across:                                                                                           |                              |
|          | 15. | Two or more axes of marginalization;                                                                                                                                                                                 | Error! Bookmark not defined. |
|          | 16. | Units of social or spatial aggregation or clustering;                                                                                                                                                                | Error! Bookmark not defined. |
|          | 17. | Temporal contexts (including contexts based on calendar time, and inter-generational and lifecourse perspectives).                                                                                                   | Error! Bookmark not defined. |
|          | 18. | Operationalize and utilize independent measures that are hypothetically modifiable, and therefore amenable to intervention.                                                                                          | Error! Bookmark not defined. |
|          | 19. | Describe assumptions about the relationship between study measures, including the assumed direction and temporal ordering of associations, using a causal map or Directed Acyclic Graph*.                            | -                            |
|          | 20. | Describe assumptions about the broader social phenomena that measures are assumed to capture or represent.                                                                                                           | Error! Bookmark not defined. |
|          | 21. | Describe and justify selected reference categories.                                                                                                                                                                  | Error! Bookmark not defined. |
| Analysis | 22. | Select/design analyses according to study objectives.                                                                                                                                                                | Error! Bookmark not defined. |
|          | 23. | Assess both absolute and relative inequalities between groups.                                                                                                                                                       | Error! Bookmark not defined. |
|          | 24. | In regression-based analyses, use a parsimonious set of adjustment variables based on the causal map described (Item #19).                                                                                           | NA                           |
|          | 25. | State and test underlying analytic assumptions using sensitivity analyses.                                                                                                                                           | Error! Bookmark              |

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|-----------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                 |     |                                                                                                                                                                                              | <b>not defined.</b>                 |
|                                                                 | 26. | Where relevant to the research question, analyze qualitative data, using methods most appropriate for the study's objectives.                                                                | NA                                  |
| <b>Results</b>                                                  |     |                                                                                                                                                                                              |                                     |
|                                                                 | 27. | Present and discuss determinants, outcomes, and inequalities therein, stratified by i) relevant sub-groups, ii) units of space, iii) units of time.                                          | <b>Error! Bookmark not defined.</b> |
|                                                                 | 28. | Present and interpret effect modification results, distinguishing between additive and multiplicative interaction.                                                                           | NA                                  |
|                                                                 | 29. | If available and relevant for the research question, present the results of the mixed-methods or qualitative analyses that were performed (Item #26), including key illustrative quotations. | NA                                  |
| <b>Discussion</b>                                               |     |                                                                                                                                                                                              |                                     |
|                                                                 | 30. | Engage with populations that are affected by the inequalities under study, for the review and interpretation of findings.                                                                    | -                                   |
| Findings                                                        | 31. | Refer to principles of intersectionality theory when interpreting the plausible mechanisms explaining results.                                                                               | <b>Error! Bookmark not defined.</b> |
| Implications                                                    | 32. | Describe the implications of the study for public health practice, as well as policy and systems change.                                                                                     | -                                   |
|                                                                 | 33. | Describe the implications of the study for the potential population targets of intervention (e.g., universal policy, targeted/proportional universalist policy).                             | <b>Error! Bookmark not defined.</b> |
| Limitations                                                     | 34. | Describe how key/core principles of intersectionality were or were not integrated in the study.                                                                                              |                                     |
|                                                                 | 35. | Describe any limitations of data sources (including statistical power), measures and analyses, and their implications.                                                                       | <b>Error! Bookmark not defined.</b> |
|                                                                 | 36. | Include reflexivity about the power invested in (and reproduced by) the methods used.                                                                                                        |                                     |
| * Please refer to the report's Glossary section for definitions |     |                                                                                                                                                                                              |                                     |