

## Systematic Review

**Title:** Envisioning Happy Places For All: A systematic review of the impact of transformations in the urban environment on the wellbeing of vulnerable groups

### Supplementary File S4 – Risk of bias assessment

**Tool:** Mixed Methods Appraisal Tool (MMAT)

**Judgment:** Yes (green), No (red), Can't tell (yellow)

#### Qualitative studies

Study	S1. Are there clear research questions?	S2. Do the collected data allow to address the research questions?	1.1 Is the qualitative approach appropriate to answer the research question?	1.2 Are the qualitative data collection methods adequate to address the research question?	1.3. Are the findings adequately derived from the data?	1.4. Is the interpretation of results sufficiently substantiated by data?	1.5. Is there coherence between qualitative data sources, collection, analysis and interpretation?
Beebeejaun (2009)	Yes	Yes	Yes	Can't tell	Yes	Yes	Yes
Gosling (2008)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pastor (2014)	Can't tell	Yes	Can't tell	Can't tell	Can't tell	Can't tell	Can't tell
Peréz del Pulgar et al. (2020)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

### Quantitative non-randomised studies

Study	S1. Are there clear research questions?	S2. Do the collected data allow to address the research questions?	3.1. Are the participants representative of the target population?	3.2. Are measurements appropriate regarding both the outcome and intervention (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 occurred) as intended?
Foley et al. (2017)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Semenza et al. (2007)	Yes	Yes	Can't tell	Yes	Yes	Can't tell	Yes

### Quantitative descriptive

Study	S1. Are there clear research questions?	S2. Do the collected data allow to address the research questions?	4.1. Is the sampling strategy relevant to address the research question?	4.2. Is the sample representative of the target population?	4.3. Are the measurements appropriate?	4.4. Is the risk of nonresponse bias low?	4.5. Is the statistical analysis appropriate to answer the research question?
Afacan (2015)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Mixed-Methods studies**

<b>Study</b>	<b>S1. Are there clear research questions?</b>	<b>S2. Do the collected data allow to address the research questions?</b>	<b>5.1. Is there an adequate rationale for using a mixed methods design to address the research question?</b>	<b>5.2. Are the different components of the study effectively integrated to answer the research question?</b>	<b>5.3. Are the outputs of the integration of qualitative and quantitative components adequately interpreted?</b>	<b>5.4. Are divergences and inconsistencies between quantitative and qualitative results adequately addressed?</b>	<b>5.5. Do the different components of the study adhere to the quality criteria of each tradition of the methods involved?</b>
Anthun et al. (2019)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MacMillan et al. (2018)	Yes	Can't tell	Yes	Yes	Can't tell	Can't tell	Yes
Ward Thompson et al. (2014)	Yes	Yes	Yes	Yes	Yes	Yes	Yes