Spatial Methodology Appraisal of Research Tool (Version 1.5)

Study details				
Reference:				
Domains and items	**Response option***			**Comments**
	Y	**N**	**O**	
Domain 1. Methods rationale				
1.1 Did the study clearly define the research question or objectives(s)?				
1.2 Did the study provide sources and descriptions of all data used in the main analysis to address the research question or objective(s)?				
1.3 Was there a clear statement justifying the suitability of spatial methods to address the research question?				
Domain 2. Data quality				
2.1 Do these data meet the specific requirements of the study?				
2.2 Did the study address the quality of the data used in the analysis?				
2.3 Did the study describe any processing of data?				
2.4 Did the study use consistent definitions?				
2.5 Have assumptions and limitations about data quality been clearly described?				
Domain 3. Spatial data considerations				
3.1 Did the study consider how the chosen spatial unit, scale, or resolution could influence findings?				
3.2 Did the study justify why the chosen spatial unit, scale, or resolution was appropriate for addressing the research question or objective(s)?				
3.3 Did the study consider temporal issues (e.g., time period, time series)?				
Domain 4. Spatial analysis methods				
4.1 Were the spatial methods suitable to meet the specific requirements of the study?				
4.2 Did the study consider spatial relationships? (e.g., area-level clustering, spatial correlation) in the analysis?				
4.3 Were the analyses presented logically and clearly?				
4.4 Did the study provide a clear interpretation of the results in the context of the research question or objective(s)?				
4.5 Were there formal attempts to determine the robustness of findings to assumptions and data (e.g., sensitivity analysis, alternative models)?				
Final assessment				
Accounting for all information provided in the article and supplementary material, could this study be replicated?				

*Response options: For each item, select Y (Yes), N (No), or O (Other). If you select O, please indicate whether the reason is CD (Cannot determine), NA (Not applicable), or NR (Not reported)