



Article

Temporal and Spatial Analysis Techniques as Potential Tools for Combating the HIV Epidemic among Young Brazilian Amazonian People: An Ecological Study

Andrey Oeiras Pedroso ¹, Dulce Gomes ², Sara Melissa Lago Sousa ¹, Glenda Roberta Oliveira Naiff Ferreira ¹, Aline Maria Pereira Cruz Ramos ¹, Sandra Helena Isse Polaro ¹, Laura Maria Vidal Nogueira ³ and Eliã Pinheiro Botelho ^{1,*}

¹ Programa de Pós-Graduação em Enfermagem, Federal University of Pará, Belém 66075-110, Brazil; andrey.pedroso@ics.ufpa.br (A.O.P.); sara.sousa@ics.ufpa.br (S.M.L.S.); glendaf@ufpa.br (G.R.O.N.F.); nurse.alinecruz@gmail.com (A.M.P.C.R.); shpolaro@ufpa.br (S.H.I.P.)

² Departamento de Matemática, Colégio Luís António Verney, University of Évora, 7000-671 Évora, Portugal; dmog@uevora.pt

³ Departamento de Enfermagem Comunitária, State University of Pará, Belém 66050-540, Brazil; lauramavidal@gmail.com

* Correspondence: ebotelho@ufpa.br

Table S1. ariables used in Geographically Weighted Regression.

Variable	
Education	
v1	Failure rate in elementary school in the municipalities - 2018
v2	Failure rate in high school in the municipalities - 2018
v3	Dropout Rate in Elementary School in the municipalities - 2018
v4	Dropout Rate in High School in the municipalities - 2018
v5	Basic education development index - IDEB - Public school - for the first five years of school in the municipalities – 2017
v6	Basic education development index - IDEB - Public school - for the 9 years of school in the municipalities – 2017
Social inclusion	
v7	Number of Families Assisted in the Bolsa Família Program in the municipalities– 2018
v8	Total families enrolled in the Single Register for Social Programs (CadÚnico) in the municipalities - 2018
v9	Total families enrolled in the Single Register for Social Programs (CadÚnico) with per capita family income of up to 1/2 minimum wage in the municipalities- 2018
Labor Market	
v10	Total Employment in Formal Employment in the municipalities – 2018
v11	Average Remuneration (R\$) of Formal Worker in the municipalities – 2018
Health	
v12	Municipal Family Health Strategy services coverage – 2018
v13	Municipal Basic Healthcare unities coverage - 2018
v14	Municipal Healthcare places coverage per 10,000 inhabitants - 2018
v15	Physicians per 10,000 inhabitants - 2018
v16	Municipal hospital bed coverage per 1,000 inhabitants - 2018
Safety	
v17	Youth homicide rate per 100,000 inhabitants – 2018

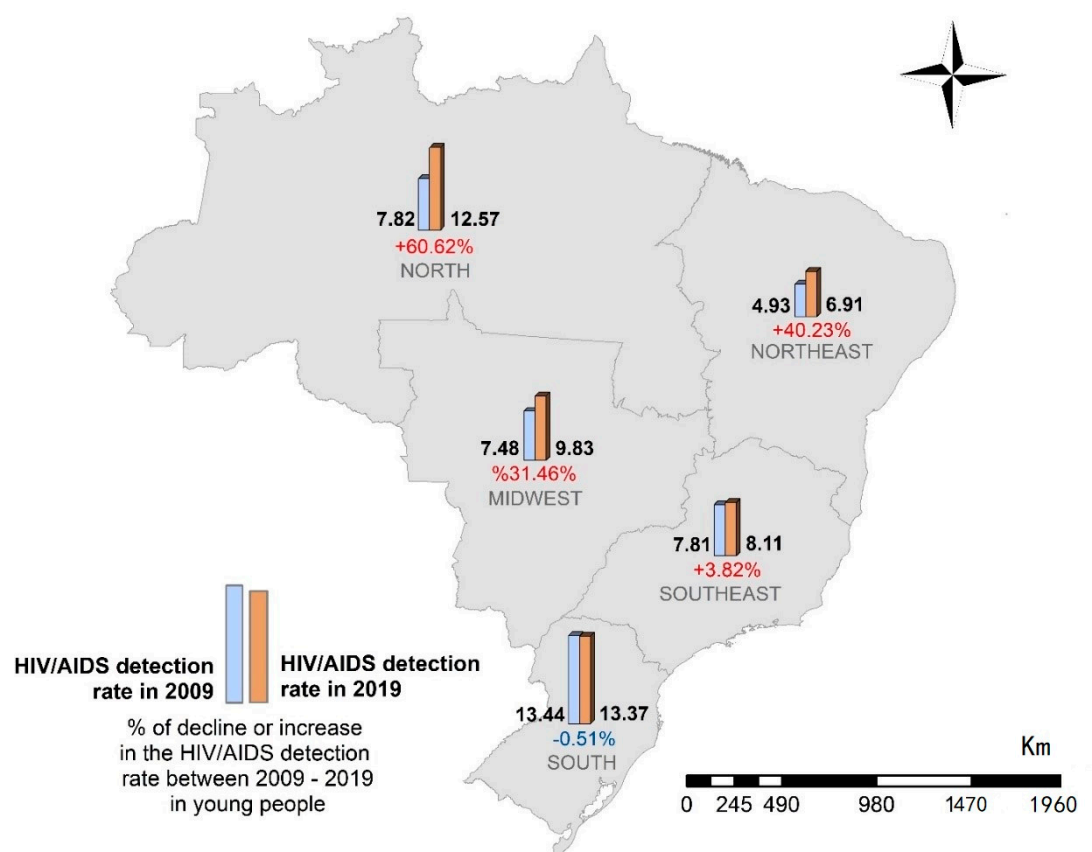


Figure S1. HIV/AIDS detection rate between 2009 and 2019 among young people in Brazil, 2009–2019.