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Knowledge, attitudes, practices and HIV testing behaviors among French Guianese and Brazilian border inhabitants

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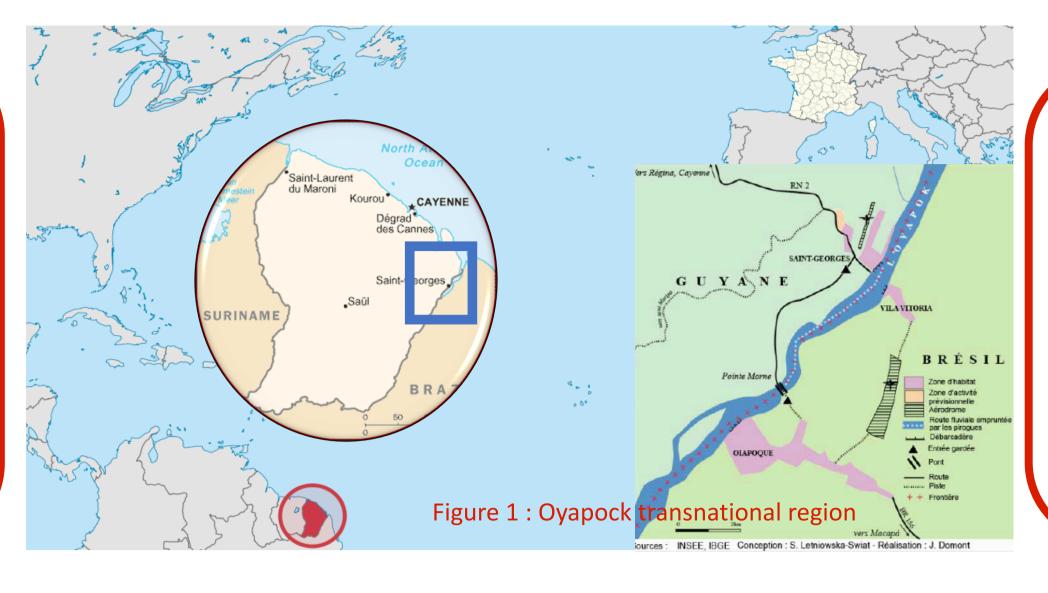
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Background:

French Guiana is a French overseas territory located in the northern region of Brazil. The border between the 2 countries is a corridor for immigrants and a supply area for illegal gold miners "Garimperos".

For more than 10 years, the HIV prevalence rates among pregnant women in French Guiana and in Amapá have exceeded 1%, in spite of a "test and treat" program free of charge. However, the epidemic remains active in vulnerable key populations, notably among immigrants and border area inhabitants.



Oyapock Coopération Santé

- International health project created to improve sexual health.
- Transborder program with three major components:
 - Biomedical with implementation of TASP, PREP and access to AART
 - Outreach and accommodation
 - Educational in sexual health.



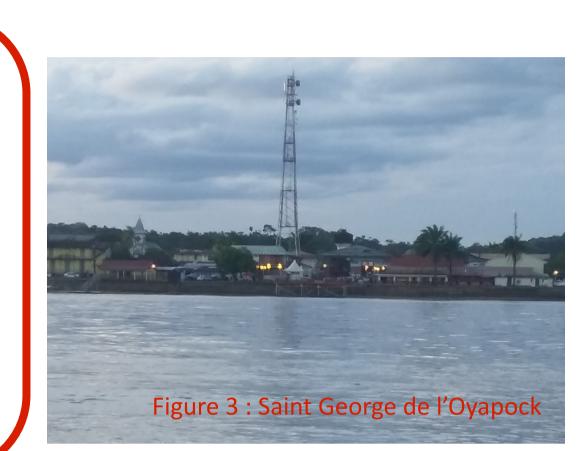
Describe the level of knowledge, attitudes and practices regarding HIV among the populations living on both sides of the border between French Guiana and Brazil.

Methods:

- Data collection from October 2017 to February 2018 (5 months).

 Two sites: Oiapoque in Brazil and Saint Coard
- French Guiana (Figure 1).
- Randomization of all participants over 18 years old according to the street of their household.
- Data collection from an anonymous structured questionnaire of 77 questions, in Portuguese or in French. Individual interview setting by trained local interviewers from the local UNIFAP
- Comparison of socio-demographic characteristics and sexual behaviors between participants of STG and those of Oiapoque
- Multivariate logistic regression for "prior HIV testing" (ST 0.05)

university or from local NGOs: DPAC or !Dsanté.



Results:

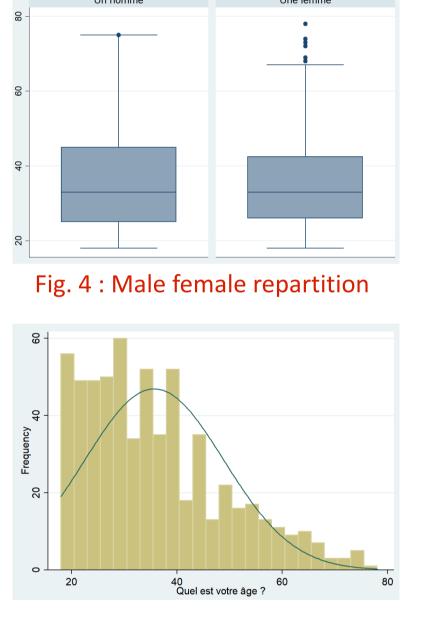
- 621 study participants: 252 (40.6%) resided in STG and 369 (59.4%) in Oiapoque
- M/F sex ratio = 0.65 (figure 4).
- Mean age = 35.7 IC95% [34.6- 36.7] years old (figure 5)
- Portuguese as native language for the majority of participants (76.9%, n=478/621).

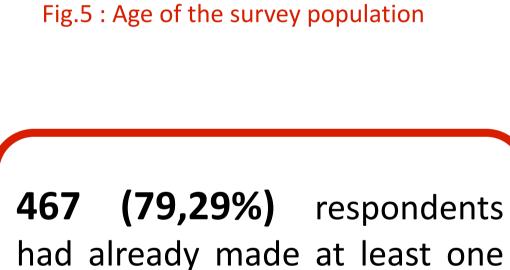
Comparable population in both countries according to sex ratio and age

Mother tongue Brazilian for the majority of the survey population, even on the French Side

Study participants in Oiapoque more educated but in a more precarious situation







HIV test during their life.

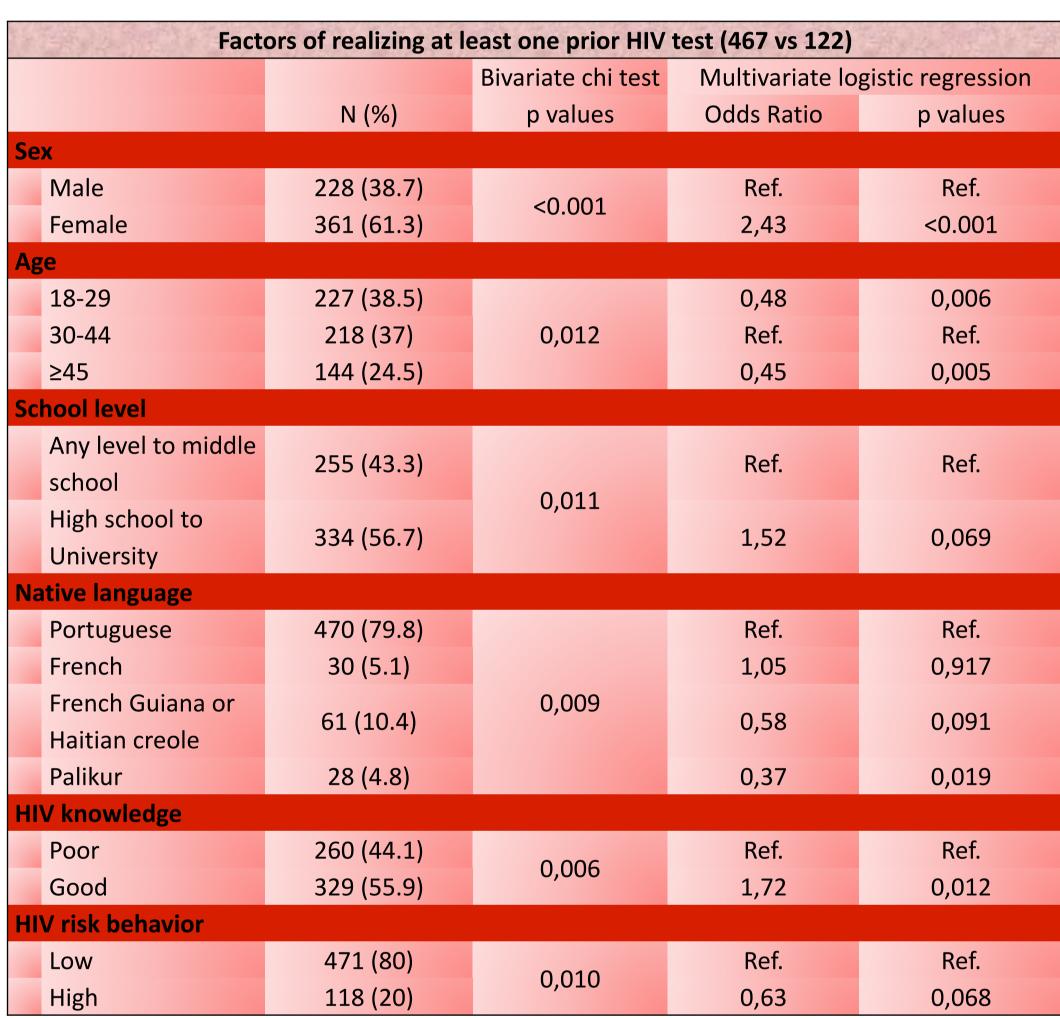


Table 2: Factors of realizing at least one prior HIV test

Inhabitants of Inhabitants of STG Bivariate chi Total Characteristics Oiapoque (Brazil) (French Guiana) test Frequency Frequency Frequency N (row %) N (row %) N (col %) p value N=369 N=252 N=621 Sex Male 137 (56.4) 106 (43.6) 243 (39.1) 0.216 232 (61.4) 146 (38.6) 378 (60.9) Female **Sexual orientation** 340 (59.6) 230 (40.4) 571 (92.0) Heterosexual 13(100.0) 0 (0.0) 13 (2.0) Homosexual 0.002 5 (71.4) 2 (28.6) 7 (1.2) Bisexual Missing data 10 (33.3) 20 (66.7) 30 (4.8) 18-29 138 (56.3) 107 (53.7) 245 (39.5) 30-44 143 (62.9) 84 (37.0) 227 (36.5) 0.336 88 (59.1) 61 (40.9) 149 (24.0) **Native language** 2 (6.3) 30 (93.8) 32 (5.2) French French Guianese creole 3 (4.8) 60 (95.2) 63 (10.1) 353 (73.9) 125 (25.2) Portuguese 478 (77) < 0.001 1 (3.1) 31 (96.9) 32 (5.2) Amerindian 10 (62.5) 6 (37.5) 16 (2.6) **Others Education level** Any level to middle school 137 (50.6) 134 (49.4) 271 (43.6) < 0.001 High school to University 232 (66.3) 118 (33.7) 350 (56.4) Income 67 (65.7) 35 (34.3) 102 (16.4) Paid employment **Informal activity** 60 (87) 9 (13) 69 (11.1) 167 (26.9) Social allowance 64 (38.3) 103 (61.7) < 0.001 231 (37.2) 138 (59.7) 93 (40.3) 37 (80.4) 9 (19.6) 46 (7.4) **Others** 3 (50) Missing data 3 (50) 6 (1.0) Table 1: Socio-demographics of survey participants

Who are more likely to have made a HIV test?



Women (2.43 more likely, p<0.001).



People aged between 30 and 44 years compare to people aged between 18-29 years (OR=0.48, p=0.006) or people over 45 (OR=0.45, p=0.005).



Portuguese or French native speaker more than Creole speaking people (not significant result, OR=0.58, p=0.091) or Palikur native speaker (OR=0.39, p=0.019).



Educated respondents (but not significant in the multivariate regression, OR=1.52, p=0.069).



People with good HIV knowledge (55.9%) had 1.72 more chance to have already done a test (p=0.012).



Respondents with hight HIV risk behavior (20%) were less likely to have done a HIV test (Not significant in the multivariate regression. OR=0.63, p=0.068).

Conclusion:

Good levels of knowledge and to not have a risky behavior have been found to be associated to a better HIV screening rate. HIV testing was also negatively linked to HIV risk behavior. Although the causal arrow could point either direction, this is a reassuring factor for prevention campaigns and could participate in reducing undiagnosed infections which drive the epidemic in this area. These results show the importance of developing HIV education program. These programs should include specific interest on autochthonous and creole communities speaking as they do fewer tests and as previous studies shown have lower HIV knowledge. This suggests that this area needs more community information on HIV delivered in native languages by community health workers.

E. Mosnier, M. Nacher, MC Parriault Knowledge, attitudes, practices about HIV and implication in risk and stigma prevention among French Guianese and Brazilian border inhabitants. BMC Pub Health, in press 2019



















