

Knowledge, attitudes and practices and HIV testing behaviours at the French Guiana-Brazilian border inhabitants

A. Carbunar, Céline Michaud, C. Dao, B. Bidaud, António Mendes, N. Garceran, Richard Botreau-Roussel-Bonneterre, S. Rhodes, E. Mosnier

▶ To cite this version:

A. Carbunar, Céline Michaud, C. Dao, B. Bidaud, António Mendes, et al.. Knowledge, attitudes and practices and HIV testing behaviours at the French Guiana-Brazilian border inhabitants. International Symposium of LabEx DRIIHM, Oct 2019, Lyon, France. , 2019. hal-02961084

HAL Id: hal-02961084 https://hal.science/hal-02961084v1

Submitted on 30 Jul 2024

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution - NonCommercial - NoDerivatives 4.0 International License

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

A Carbunar^{1,2}, C Michaud¹, C Dao², B Bidaud¹, A Mendes³, N Garceran¹, R Botreau^{1,4} S Rhodes², E Mosnier^{1,4}

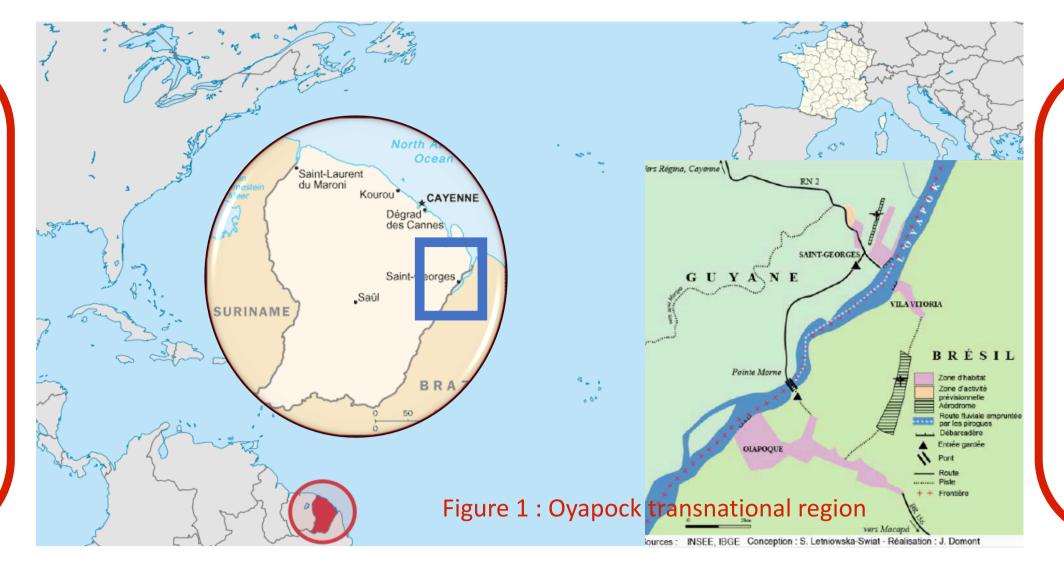


¹ Centre Hospitalier de Cayenne, French Guiana. ² Association !Dsanté, Cayenne, French Guiana. ³ Universidade Federal do Amapá, Oiapoque, Brazil⁴ Université des Antilles, Guadeloupe ⁴ Ecosystème Amazonien et Pathologie Tropicale, EA3593, Université de Guyane



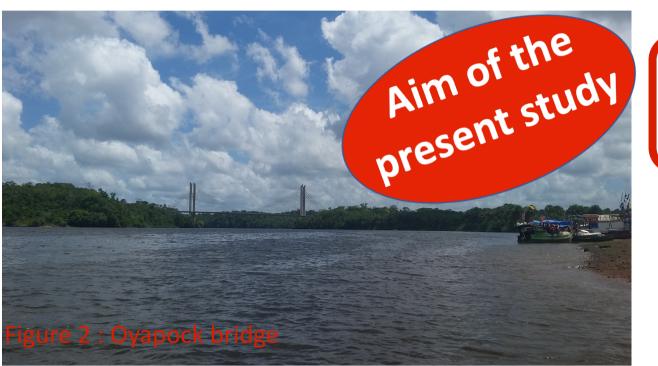
French Guiana is a French overseas territory located in the northern region of Brazil. The border between the 2 countries is a corridor for immigrants and a supply area for illegal gold miners "Garimperos".

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.

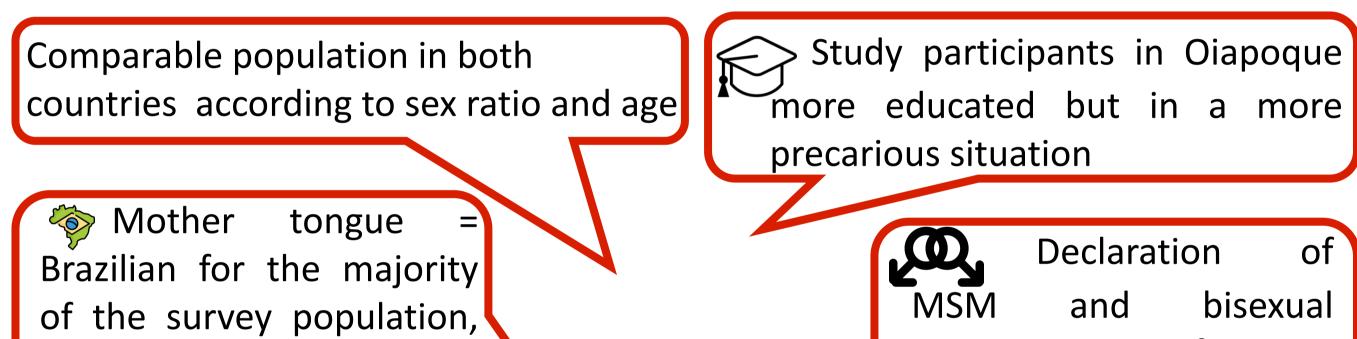


Describe the level of knowledge, attitudes and practices regarding HIV among the populations living on both sides of the border between

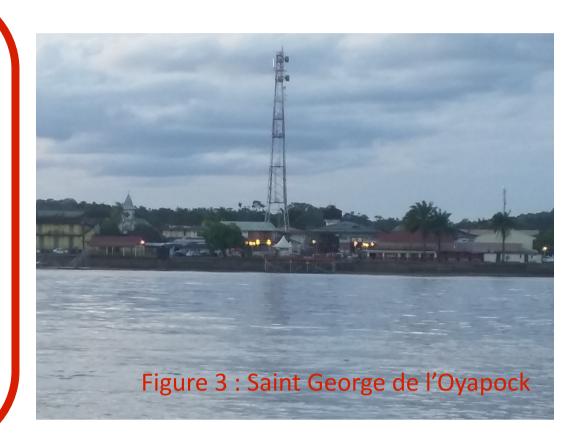
French Guiana and Brazil.

Methods :

- Cross-sectional and descriptive study.
- Data collection from October 2017 to February 2018 (5 months). Two sites : Oiapoque in Brazil and Saint Courses in the second states in French Guiana (Figure 1).
- **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).



- 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 university or from local NGOs: DPAC or !Dsanté.
- 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)



Facto	ors of realizing at le	east one prior HIV		
		Bivariate chi test	Multivariate logistic regression	
	N (%)	p values	Odds Ratio	p values
Sex				
Male	228 (38.7)	<0.001	Ref.	Ref.
Female	361 (61.3)	<0.001	2,43	<0.001
Age				
18-29	227 (38.5)		0,48	0,006
30-44	218 (37)	0,012	Ref.	Ref.
≥45	144 (24.5)		0,45	0,005
School level				
Any level to middle school	255 (43.3)	0,011	Ref.	Ref.
High school to University	334 (56.7)		1,52	0,069
Native language				
Portuguese	470 (79.8)		Ref.	Ref.
French	30 (5.1)	0,009	1,05	0,917
French Guiana or Haitian creole	61 (10.4)		0,58	0,091
Palikur	28 (4.8)		0,37	0,019
HIV knowledge				
Poor	260 (44.1)	0.000	Ref.	Ref.
Good	329 (55.9)	0,006	1,72	0,012
HIV risk behavior				
Low	471 (80)	0,010	Ref.	Ref.
High	118 (20)		0,63	0,068

even on the French Side

Characteristics	Inhabitants of Oiapoque (Brazil)	Inhabitants of STG (French Guiana)	Total	Bivariate chi test			
	Frequency N (row %) N=369	Frequency N (row %) N=252	Frequency N (col %) N=621	p value			
Sex							
Male Female	137 (56.4) 232 (61.4)	106 (43.6) 146 (38.6)	243 (39.1) 378 (60.9)	0.216			
Sexual orientation				Avid States			
Heterosexual Homosexual Bisexual Missing data	340 (59.6) 13(100.0) 5 (71.4) 10 (33.3)	230 (40.4) 0 (0.0) 2 (28.6) 20 (66.7)	571 (92.0) 13 (2.0) 7 (1.2) 30 (4.8)	0.002			
Age		Sharen Sharen					
18-29 30-44 ≥45	138 (56.3) 143 (62.9) 88 (59.1)	107 (53.7) 84 (37.0) 61 (40.9)	245 (39.5) 227 (36.5) 149 (24.0)	0.336			
Native language				As 2 That is the			
French French Guianese creole Portuguese Amerindian Others	2 (6.3) 3 (4.8) 353 (73.9) 1 (3.1) 10 (62.5)	30 (93.8) 60 (95.2) 125 (25.2) 31 (96.9) 6 (37.5)	32 (5.2) 63 (10.1) 478 (77) 32 (5.2) 16 (2.6)	<0.001			
Education level	have been the share of the	the share with the share	and the second	and the share of the			
Any level to middle school High school to University Income	137 (50.6) 232 (66.3)	134 (49.4) 118 (33.7)	271 (43.6) 350 (56.4)	<0.001			
Paid employment	67 (65.7)	35 (34.3)	102 (16.4)				

40 60 Quel est votre âge ? 20

Fig.5 : Age of the survey population

Fig. 4 : Male female repartition

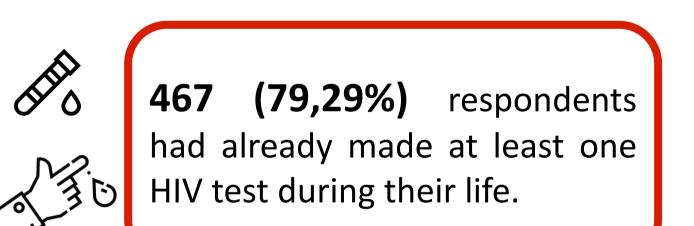


Table 2: Factors of realizing at least one prior HIV test

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).

Conclusio	n:	Table 1: Socio-demographics of survey participants		
Missing data	3 (50)	3 (50)	6 (1.0)	
Others	37 (80.4)	9 (19.6)	46 (7.4)	
None	138 (59.7)	93 (40.3)	231 (37.2)	
Social allowance	64 (38.3)	103 (61.7)	167 (26.9)	<0.001
Informal activity	60 (87)	9 (13)	69 (11.1)	

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).

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

practice more frequent

on the Brazilian Side





International Symposium of Labex DRIIHM - 2019 Inter-Disciplinary Research Facility on Human-Environment Interactions - ANR-11-LABX-0010 7-9 October 2019 - ENS Lyon (France)

Contact : aurel.carbunar@ch-cayenne.fr