

Central nervous system histoplasmosis in AIDS: a case series in French Guiana

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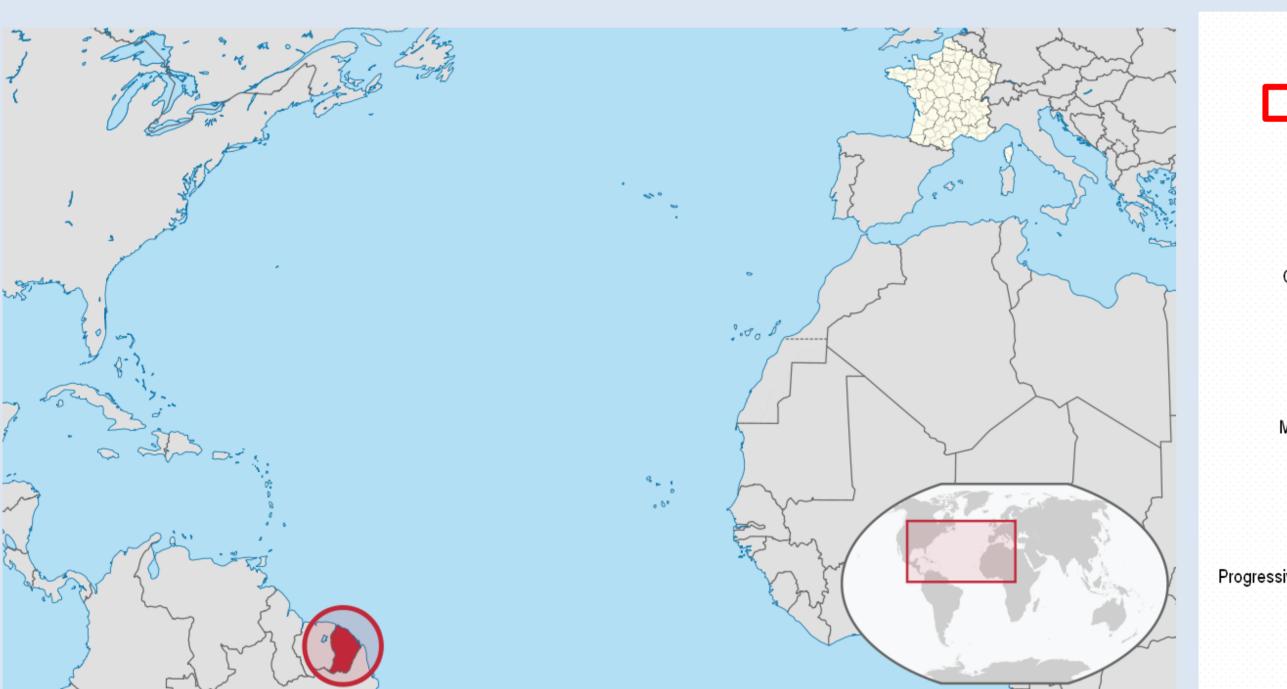
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ECCMID Madrid, Spain 21 – 24 April 2018

Among 25 year positiv HAART era incidence rates of AIDS defining illnesses in French Guiana : only (1 2320 patients followed between 1997 and 200 Sex rat The CD4 CASE IV wasting syndro Age (y Time k CD4 co IV RN nvasive cervical cano HAART ogressi∨e multifocal leukoen cephalitis Coccidioidomycosi ncidence rate per 1000 person-vears ■HAART era Incidence rate per 1000 person-years CSF and Dutcor Figure FLAIR sequence highlighting bilateral hypersignal of predominantly left lenticular nuclei and hydrocephalus

French Guiana is a French region located on the Northeastern coast of South America. Its surface is covered of more than 98% of rainy Amazonian rain forest

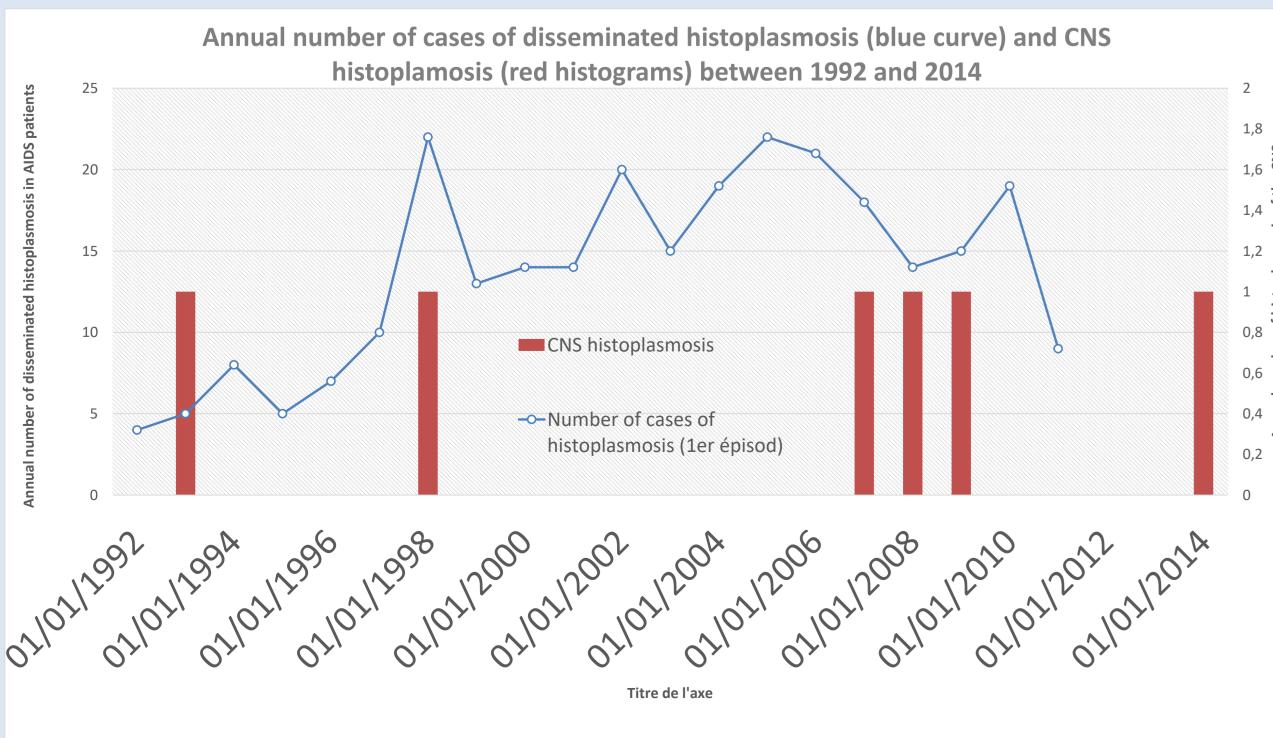


Histoplamosis is a fungal infection due to *Histoplasma capsulatum* in immunosuppressed patients

Its location in the central nervous system (CNS) is rarely described. the secondary objective was to describe the clinical and paraclinical characteristics.

BACKGROUND It is the main opportunistic infection reported in patients with AIDS in French Guiana. which is responsible of disseminated severe infection The main objective of this study was to estimate the incidence of CNS impairment in an endemic area for AIDS-related histoplasmosis and **MATERIALS/METHODS** An observational, prospective, multicentric study was conducted from January 1st, 1990 to December 31st, 2014, on people living with HIV (PLHIV) admitted for an incident case of histoplasmosis in one of the three main hospitals of French Guiana. All histoplasmosis cases were

confirmed according to the EORTC-MSG criteria and a written consent was obtained.



Central nervous system histoplasmosis in AIDS: a case-series in French Guiana

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> The diagnostic was difficult in deeply immunocompromised PLHIV presenting with a non-specific clinical and paraclinical picture. The main differential diagnosis is CNS tuberculosis. It raised the importance of fungal screening in any PLHIV presenting with a neurological impairment and returning from an endemic area.

3- Hospital of Agen, FRANCE

			RESULTS			
ng the 345 PLHIV with a diagnosis of histoplasmosis during the ars study period, six (1.7%) had a cerebro-spinal fluid (CSF) ve for <i>Histoplasma capsulatum</i> in culture and PCR (5) or PCR (1). atio M/F 0.5, 4 women and 2 men had ; mean age of 40 years. CD4 count ranged from 7-65/mm3 (mean 41/mm3).			5/6 patients had neurological signs, meningoencephalitis, meningeal syndrome, febrile headache, focal deficit, psychomotor retardation, ataxia, and/or confusion. Anemia, neutropenia and an increased CRP were associated with CNS involvement. CNS imaging was abnormal for 50% patients. 2/3 patients treated with antifungal therapy received itraconazole. 2 died within one month after admission (33%).			
	1	2	3	4	5	6
ears) and gender	33 F	36 F	47 M	35 M	48 F	39 F
efore diagnosis (days)	18	69	1	7	28	39
unt (/mm³)	29	62	29	7	65	56
A (copies/μl)	NA	NA	NA	687 000	59 894	147 615
at Presentation	No	No	No	Yes but not observant (Ritonavir, Fosamprenavir, Abacavir, Lamivudine)	Yes but not observant (Lamivudine, Zidovudine, Lopinavir, Ritonavir)	Tenofovir, Lamivudine, Efavirenz
ction	VHC	VHC	No	No	No	No
unistic diseases	No	No	Toxo and TB	Esophageal candidiasis	EBV	CMV, TB
eurological symptoms on)	fever, diarrhea, short breath (12 weeks)	fever, splenomegalie (2 weeks)	weight lost, cough, lymphadenopathies (cervical, axillary, subclavian) (12 weeks)	weight lost, fever, abdominal pain, vomiting (12 weeks)	weight lost, dyspnea, cough, expectoration, oto- mastoiditis	fever, abdominal pain, nausea vomiting, diarrhea, cough
ogical symptoms on)	Meningo-encephalitis	meningial syndrome, headaches (2 weeks)	headaches, ideomotor slowdown, focal deficit	no	Ataxie	Headaches, acute confusiona state, meningeal syndrome, Dysarthria,
g	<u>Chest X-RAY</u> = interstitial syndrom, <u>Ab echo</u> =normal <u>Brain CT scan</u> =none	<u>Chest X-RAY</u> = right upper lobe opacity sequelae of tuberculosis, <u>Ab echo</u> = splenomegaly and lymphadenopathies, <u>Brain CT scan</u> = hydrocephalus	<u>Brain CT scan</u> = edema and parenchymatous lesions in cockade	<u>Brain CT scan</u> =normal	Brain CT scan = normal	<u>Brain CT scan</u> =hypodense gap ventricular dilatation <u>MRI</u> = FLAIR and T1 Hypersignal of the basal ganglia
alysis	unknown	leukocytes: 71 , PR: 0,98g/l, Glu: 2,2 mmol/l	leukocytes: 20 (% P: 5,L:95,M: 0) PR : 1,4g/l, Glu:2,9 mmmol/l	leukocytes: 1 PR 0,3g/l Glu: 2,8 mmol/l	WBC: 44 (%P:25,L:75), PR: 1,7g/l, Glu: unknown	leukocytes :11 PR:0,72g/l, Glu 1,2mM
gical diagnosis	Culture	Culture	PCR	Culture	Culture	Culture
ent	Amphotericine B	Itraconazole	Liposomal Amphotericine B 7 days then Itraconazole	Itraconazole	Amphotericine B liposomal	Amphotericine B only 1 day, then Itraconazole
	Zidovudine	No	No	Ritonavir, Fosamprenavir, Abacavir, Lamivudine	Didanosine, Zidovudine, Lopinavir, Ritonavir	Efavirenz, Emtricitabine, Tenofovir, disoproxil
ne in months (still alive)	1 (no)	88 (no)	96 (yes)	53 (no)	0 (no)	12 (yes)
<u>e 4</u> : Clinical, biolog	gical, radiological and	d outcome characteristics	of each patient			

Chincul, biological, radiological and baccome characteristics of each patient NA = not available; Toxo= toxoplasmosis, TB= tuberculosis, Ca= candidosis, CMV=cytomegalovirus, EBV= Ebstein Baar virus, MRI=Magnetic resonnace imagin, Echo ab= abdominal echographie, WBC = White Blood Cells, PR= Protein, Glu= Glucose CSF, PCR= Protein Chain Reaction



