

P0522 **Chikungunya virus infection in HIV patients: 2017 outbreak in northeastern Brazil**

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Background: Activated T-CD4 and B-cells, monocytes and dendritic cells derived from monocytes are not infected by CHIKV, but are strongly associated to inflammatory reaction. Chronic arthritis symptoms and T-CD4 cell activity relation could protect HIV patients to develop severe disease manifestations?

Materials/methods: Evaluation of patient's profile with HIV, who attended specialized HIV/AIDS services in Ceara (Northeast/Brazil), with CHIKV clinical symptoms infection during 2017 outbreak (February to May). Immune-virology and clinical manifestations were collected for statistical analyses.

Results: Total of 59 patients, 52.5% male, age from 26 to 69 years. During analyses 16.9% were in Chronic Phase, 42,4% Sub acute Phase (until 3 months), and 40,6% in Acute Phase. The main joints were wrists and hands (69.5%), followed by ankles and feet (64.4%), knees (35.6%), diffuse arthralgia (16.9%), elbows (11,8%), shoulder (10.2%) and spine (6.8%). Three patients (5%) presented severe complications, one of whom with joint pain, thrombocytopenia, bleeding and autoimmune hepatitis in the use of azathioprine and chronic corticosteroids (CD4=335). Two had renal failure, both on tenofovir/lamivudine/atazanavir/ritonavir use (CD4 count 172 and 717). One of these progressed to dialysis treatment.

Conclusions: Coinfected patients presented similar evolution to seronegative patients, including severe complications. Above 50 years was a risk factor for chronification, besides presence of joint edema and rash. We alert for risks of detectable viraemia in CHIKV acute phase in HIV patients, and renal failure in ones treated with nephrotoxic antiretrovirals.

Table 1: Characterization of CHIKV-HIV co-infection

	Chronic phase (N=10)	Subacute phase (N=25)	P	Acute phase (N=24)	P
Mean age	52,5	43,8	-	46,5	-
≥ 50 years	60% (7)	29,1% (7)	0,05	56,5% (13)	0,3
Women	70% (6)	36% (9)	0,26	50% (12)	0,6
CD4+ cels/mm ³	555,3	748	-	611,2	-
Viral Load (VL) <50 copies	50% (5)	96% (24)	0,004	87,5% (21)	0,72
Mean VL (copies)	562	119	-	122,6	-
Fever	60% (6)	52% (13)	0,72	66,6% (16)	0,42
Edema	70% (7)	52% (13)	0,45	25% (6)	0,01

Rash	50% (5)	44% (11)	1	16,6% (4)	0,02
Days in acute phase	12,5	10,7	-	9	-