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TITLE

The epidemiological profile of mpox cases in Rio de Janeiro, Brazil: changes over time during the 2022 outbreak

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BACKGROUND: Mpox emerged as a public health emergency of international concern in May, 2022. By January 27, 202: diagnosed globally;12.5% of them in Brazil. Understanding the mpox transmission dynamics in Brazil is relevant to pre responses at the country level. This study aimed to analyze the characteristics of confirmed mpox cases and the patt transmission in Rio de Janeiro according to time of diagnosis.

METHODS: Prospective, observational cohort study of individuals with confirmed mpox followed at a major referral ce Janeiro, Brazil.We compared sociodemographic, clinical, and behavioral data among individuals diagnosed in two tir August 2022(first phase); (2)September-December 2022(second phase).Chi-squared or Fisher's tests for qualitative vari test for quantitative variables were used.

RESULTS: Between June and December 2022, 416 participants had confirmed mpox, the majority between June and Au Overall, median age was 34 years(IQR:28-40), 91.9% were cisgender men(n=382/416),62.3% self-declared as black or *pa* 87.4% were men who have sex with men(MSM)(n=326/373). Compared to cases diagnosed during the first phase, the fi among women(cis and trans) increased during the second phase, whereas it declined among cisgender men and MS the 30 days before symptoms initiation and the frequency of anogenital lesions remained stable across phases.Overc exanthema was more frequent, but localized exanthema increased during the second phase(Table).

		June - August 2022 (n = 262)	September – December 2022 (n = 154)	Total (n = 416)
Median age (IQR)		33	35	34
		(28,39)	(28,42)	(28,40)
Gender	Cisgender men	252/262	130/154	382/416
		(96.2%)	(84.4%)	(91.9%)
	Cisgender women	10/262	13/154 (8.4%)	23/416
		(3.8%)		(5.5%)
	Travesti or TGW	0	11/154	11/416
		(0)	(7.2%)	(2.6%)
MSM		215/232	111/141	326/416
		(93%)	(79%)	(87%)
Reported sex in the 30 days before starting symptoms		210/231	127/144	337/375
		(91%)	(88%)	(90%)
Exanthema	Localized	69/248 (28%)	60/149 (40%)	129 (32%)
	Disseminated	179/248	89/149	269/397
		(72%)	(60%)	(68%)
Anogenital lesions		191/262	115/154	306
		(73%)	(75%)	(74%)

CONCLUSIONS: The intersection of sexual networks seems to play an important role in mpox transmission dynamics c spread, as shown by the largest number of MSM in the first phase and the increased number of cases in women diag increased frequency of localized exanthema might be related to greater awareness of the array of clinical presentati clinicians.Prompt mpox identification and diagnosis are essential to fully understand the dynamics of the mpox outb