Methods A total of 600 crack users were interviewed and blood samples were collected for detection of anti-HIV-1. HIV-RNA was detected in positive samples, the HIV-1 protease (PR) and reverse transcriptase (RT) regions were sequenced; subtypes were assigned by REGA/phylogenetic analysis. HIV-subtypes were assigned by REGA. Univariate and multivariate analysis were carried out to identify predictors of HIV infection. This study was analysed and approved by the Committee on Ethics in Human Research of Hospital das Clínicas, Universidade Federal de Goiás.

Results The median age of participants was 30 years old, and the majority were male, mixed race, single, and unemployed. Of the total, 2.8% were HIV-positive. Having sex with an HIV carrier, irregular condom use during sexual intercourse, and experience of living on the streets were predictors of HIV positivity (p<0.05). In 12 out of 17 crack users RNA HIV-1 were amplified and sequenced. Seven isolates were subtype B, one subtype F1 and one subtype C.

Conclusion A high HIV prevalence was observed among crack users in Midwestern Brazil, a region far from the epicentre of HIV epidemiology. The predictors of HIV infection identified are concerning, and necessitate preventive strategies for HIV infection specifically directed toward this population. HIV-1 subtype C seems to have emerged over the last few years in this population at the centre of the country. Support: This work was supported by Conselho Nacional de Desenvolvimento Científico e Tecnológico – CNPq, and Fundação de Amparo a Pesquisa do Estado de Goiás – FAPEG

Results Of the total participants, 13.8% (95.0% CI: 11.3% to 16.3%) were positive in ELISA. The prevalence of active syphilis was 4.5% (95.0% CI: 3.1% to 6.5%). The prevalence of exposure to Treponema pallidum and active syphilis was statistically higher in women than in men (p<0.001). In a multivariable model, female sex (adjusted prevalence ratio [APR]: 3.73; p<0.001), schooling (APR: 0.88; p=0.030), exchange sex for money and/or drugs (APR: 3.22; p=0.040) and a history of genital ulcers in previous six months (APR: 4.12; p=0.010) were associated with active syphilis.

Conclusion The results of this research show high prevalence of syphilis in crack users in Goiânia city. Comprehensive care for this population should be offered, including strategies such as health education, condom provision, and regular infection testing.

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Introduction Alcohol is an acknowledged risk factor for sexually transmitted illnesses achievement, but the device is unclear. Potentially, teenagers using alcohol in the 2 hours previous to sex (in-the-instant use) have riskier sexual partners.

Methods We applied multivariable logistic regression to observe the connexion among in-the-instant alcohol use and partner risk features accounted for the most current sex between principally 16- to 17-year-old teenagers initially engaged from a representative trial of Tirana public elementary schools. We generated 3 combined partner risk outlines: partner awareness risk (informal and unpredicted), partner situation risk (age discordance and met in public), and generally risk using all measures excluding partner alcohol use.

Results Adolescents who reported any in-the-instant alcohol use were more expected to nondrinking youngsters to state casual (adjusted odds ratio [AOR], 3.1; 95% confidence interval [95% CI], 1.9–5.0), unpredicted (AOR, 1.5; 95% CI, 1.2–2.7), age dissonant (AOR,2.8; 95% CI, 1.9–4.2), or met in public partners (AOR, 1.4; 95% CI, 1.0 to 2.1). For each compound evaluation, the number of partner hazard features accounted augmented linearly with the percentage of teenagers drinking in the moment (Cochran-Armitage trend, p<0.0001). In relation to zero characteristics, in-the-moment alcohol use was connected with increased odds of reporting 1 (AOR, 2.5; 95% CI, 1.4–4.8), 2 (AOR, 4.3; 95% CI, 2.8, 7.7).

Conclusion The results develop the association among in-the-moment alcohol use and partner hazard accounted in previous surveys to include adolescents’ universal sexual knowledge and supplementary partner features counting the extremely allied compound features

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