In Brazil and worldwide, human immunodeficiency virus (HIV) infection persists, with the number of people infected consistently increasing. Estimates from the Joint United Nations Program on HIV/AIDS (UNAIDS) indicate that there were about 44 million people infected with HIV globally as of 2017\(^1\).

In Brazil, from 2007 to 2017, a total of 230,547 cases of HIV infection were reported to the Ministry of Health, while in 2017 there were 42,420 new cases of HIV and 37,791 cases of AIDS, with a detection rate of 18.3 per 100,000 inhabitants. In the last five years, the country has recorded an average of 40,000 new cases of AIDS, of which about 67% are among men and 33% among women. It is estimated that around 866 thousand individuals live with HIV in the country and, among these, 135 thousand do not know their serological status\(^2\).

In 2017, 58.1% of reported HIV cases occurred in black people, and overall, the sex ratio was 2.6 cases in men to one in women. A higher number of HIV cases are also reported among young people at the age group of 20 to 29 years old. The proportional distribution of HIV cases indicates a concentration in the Southeast and South regions, with 47.4% and 20.5% of the cases, respectively. The Northeast, North and Central-West regions correspond to 17%, 8% and 7.1% of total cases, respectively. This information indicates the tendency of concentration of HIV cases in metropolitan regions and municipalities with more than 100 thousand inhabitants\(^2\). Infection by HIV in the total Brazilian population has an estimated prevalence rate of 0.4% since a few decades ago\(^3,\(^4\). However, while HIV prevalence stabilizes in the general population, more vulnerable population...
segments with higher risk of infection concentrate higher prevalence. In studies conducted in 12 Brazilian cities in 2016, weighted seroprevalences ranged from 5.3% among female sex workers (FSW)\textsuperscript{5} to 17.5% among men who have sex with men (MSM)\textsuperscript{6}, reaching more than 40% in the population of transsexual women (TW) in some capitals\textsuperscript{7}.

Antiretroviral treatment (ARVT) has brought precise benefits to reduce AIDS-related morbidity and mortality, improving the quality of life of people living with HIV/AIDS (PLHIV). Currently, 91\% of people undergoing treatment have undetectable viral load and very low chances of HIV transmission\textsuperscript{2,8}. As a result of advances in ARVT, HIV post-exposure prophylaxis (PEP) was implemented in 2012, and sexual pre-exposure prophylaxis (PrEP) since December 2017 on the Unified Health System (SUS)\textsuperscript{9}.

However, major key populations are still not being adequately addressed by prevention, treatment and comprehensive care measures with interventions and services for sexually transmitted infections (STIs), HIV and viral hepatitis. In Brazil, the most vulnerable key-populations, such as young MSM, TW and FSW populations, face exclusion or difficulties in accessing health services for a variety of reasons. As in other parts of the world, these segments are reluctant to be tested for HIV and attend treatment services for fear of discrimination and social consequences\textsuperscript{10}.

The Department of Chronic Conditions and Sexually Transmitted Infections (DCCI – Doenças de Condições Crônicas e Infeccções Sexualmente Transmissíveis) addresses the response to STI, HIV and viral hepatitis-related illnesses based on scientific evidence and has thus supported important epidemiological, clinical, biomedical, behavioral and psychosocial studies, whose results contribute to qualify the Brazilian response and strengthen public policies in the area. These studies are developed in partnership with Brazilian researchers associated with research institutions such as those of higher education, foundations, institutes and public or private non-profit research and development centers, as well as with public companies, health services and society organizations that research activities in science, technology and innovation\textsuperscript{11}.

The articles that compose this supplement show results that contribute to a better understanding of the scenario of determinants and factors associated with HIV; estimates of HIV prevalence in the population of male conscripts, pregnant women and parturients; on identifying the dynamics of risk behaviors in key-populations (e.g., MSM, FSW and TW); of HPV prevalence; of microbial resistance analyses; of sentinel programs for epidemiological HIV surveillance in Brazil; and the social dynamics of these diseases. The studies and researches conducted are part of the strategic information activities in the surveillance of STIs, HIV and viral hepatitis, which is based on the commitment to disseminate the generated knowledge to everyone interested in technical and scientific information, with it being used as support for the process of interaction between managers and researchers in decision-making, with direct application in the strengthening of new technologies within the SUS system.
REFERENCES


Authors’ contributions: Pereira GFM conceived, wrote and validated the article. Pimenta MC and Guimarães MDC contributed to the conception, analysis, writing and critical review of the intellectual content. Giozza SP acquired the data and wrote the article. Caruso AR reviewed and validated the data. Bastos FL contributed to the critical review of the content.