WHO IMPLEMENTATION TOOL FOR PRE-EXPOSURE PROPHYLAXIS (PrEP) OF HIV INFECTION

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Introduction

Following the WHO recommendation in September 2015 that “oral pre-exposure prophylaxis (PrEP) should be offered as an additional prevention choice for people at substantial risk of HIV infection as part of combination HIV prevention approaches”, partners in countries expressed the need for practical advice on how to consider the introduction of PrEP and start implementation. In response, WHO has developed this series of modules to support the implementation of PrEP among a range of populations in different settings.

Although there is growing acknowledgement of PrEP’s potential as an additional HIV prevention option and countries are beginning to consider how PrEP might be most effectively implemented, there has been limited experience with providing PrEP outside research and demonstration projects in low- and middle-income countries. Consequently, there is often uncertainty around many implementation issues. The modules in this tool provide initial suggestions for the introduction and implementation of PrEP based on currently available evidence and experience. However, it is recognized that this evidence may evolve following wider PrEP use; therefore, it is likely that this tool will require regular updating.

PrEP should not replace or compete with effective and well-established HIV prevention interventions, such as comprehensive condom programming for sex workers and men who have sex with men and harm reduction for people who inject drugs. Many people who could benefit most from PrEP belong to key population groups that may face legal and social barriers to accessing health services. This needs to be considered when developing PrEP services. Although the public health approach underpins the WHO guidance on PrEP, the decision to use PrEP should always be made by the individual concerned.

Target audience and scope of tool

This PrEP tool contains modules for a range of stakeholders to support them in the consideration, planning, introduction and implementation of oral PrEP. The modules can be used on their own or in combination. In addition, there is a module for individuals interested in or already taking PrEP. (See Summary of modules below.)

This tool is the product of collaboration between many experts, community organizations and networks, implementers, researchers and partners from all regions. The information presented is aligned with WHO’s 2016 consolidated guidelines on the use of antiretroviral drugs for HIV treatment and prevention.

All modules make reference to the evidence-based 2015 WHO recommendation on PrEP. They do not make any new recommendations on PrEP, focusing instead on suggested implementation approaches.

Guiding principles

It is important to adopt a public health, human rights and people-centred approach when offering PrEP to those at substantial risk of HIV. Similar to other HIV prevention and treatment interventions, a human rights-based approach gives priority to issues concerning universal health coverage, gender equality and health-related rights including accessibility, availability, acceptability and quality of PrEP services.
SUMMARY OF MODULES

Module 1: Clinical. This module is for clinicians, including physicians, nurses and clinical officers. It gives an overview of how to provide PrEP safely and effectively, including: screening for substantial risk of HIV; performing appropriate testing before initiating someone on PrEP and while the person is taking PrEP; and how to follow up PrEP users and offer counselling on issues such as adherence.

Module 2: Community educators and advocates. For PrEP services to reach populations in an effective and acceptable way, community educators and advocates are needed to increase awareness about PrEP in their communities. This module provides up-to-date information on PrEP that should be considered in community-led activities that aim to increase knowledge about PrEP and generate demand and access.

Module 3: Counsellors. This module is for staff who counsel people as they consider PrEP or start taking PrEP and support them in addressing issues around coping with side-effects and adherence strategies. Those who counsel PrEP users may be lay, peer or professional counsellors and healthcare workers, including nurses, clinical officers and doctors.

Module 4: Leaders. This module aims to inform and update leaders and decision-makers about PrEP. It provides information on the benefits and limitations of PrEP so that they can consider how PrEP could be most effectively implemented in their own settings. It also contains a series of frequently asked questions about PrEP, with related answers.

Module 5: Monitoring and evaluation. This module is for people responsible for monitoring PrEP programmes at the national and site levels. It provides information on how to monitor PrEP for safety and effectiveness, suggesting core and additional indicators for site-level, national and global reporting.

Module 6: Pharmacists. This module is for pharmacists and people working in pharmacies under a pharmacist’s supervision. It provides information on the medicines used in PrEP, including the optimal storage conditions. It also gives suggestions for how pharmacists and pharmacy staff can monitor PrEP adherence and support PrEP users to take their medication regularly.

Module 7: Regulatory officials. This module is for national authorities in charge of authorizing the manufacturing, importation, marketing and/or control of antiretroviral medicines used for HIV prevention. It provides information on the safety and efficacy of PrEP medicines.

Module 8: Site planning. This module is for people involved in organizing PrEP services at specific sites. It outlines the steps to be taken in planning a PrEP service and gives suggestions for personnel, infrastructure and commodities that could be considered when implementing PrEP.

Module 9: Strategic planning. As WHO recommends offering PrEP to people at substantial HIV risk, this module offers public health guidance for policy-makers on how to prioritize services, in order to reach those who could benefit most from PrEP, and in which settings PrEP services could be most cost-effective.

Module 10: Testing providers. This module is for people who are responsible for providing testing services at PrEP sites and associated laboratories. It offers guidance in selecting relevant testing services, including appropriate screening of individuals before PrEP is initiated and monitoring while they are taking PrEP. Information is provided on testing for HIV, creatinine, hepatitis B and C virus, pregnancy and sexually transmitted infections.

Module 11: PrEP users. This module provides information for people who are interested in taking PrEP to reduce their risk of acquiring HIV and people who are already taking PrEP – to support them in their choice and use of PrEP. This module gives ideas for countries and organizations implementing PrEP to help them develop their own tools.

ANNEXES


Annotated Internet resources. This list highlights some of the web-based resources on PrEP currently available together with the stakeholder groups they are catering to. WHO will continue to provide updates on new resources.
The site planning module

This module is for clinic administrators who are responsible for identifying the resources needed to start and sustain a PrEP service as part of combination HIV prevention (see box). These resources include personnel, facilities, PrEP medicines, laboratory tests and other commodities. The information found in this module complements other modules in this WHO PrEP implementation tool.

PrEP can be provided through a number of facilities and settings, each of which will have specific resource requirements according to the populations being offered PrEP and the service delivery model/approach used. This module focuses on common elements needed by settings in order to provide a PrEP service.

WHO Recommendation for PrEP

The World Health Organization recommends that oral PrEP containing TDF should be offered as an additional prevention choice for people at substantial risk of HIV infection as part of combination prevention approaches (strong recommendation; high-quality evidence).

WHO global strategy on people-centred and integrated health services

The World Health Organization (WHO) global strategy on people-centred and integrated health services represents a shift in the way health services are funded, managed and delivered (1). Firstly, this strategy proposes that all people should have access to health services that are equitable, safe, effective, efficient, timely and of acceptable quality, and that these services are provided in a way that responds to people’s needs. Secondly, the strategy proposes that health services are integrated, implying they are offered, managed and delivered in a way that ensures people receive a continuum of services – from health promotion, disease prevention, diagnosis, treatment, disease management, rehabilitation through to palliative care – at the different levels and sites within the health system and according to their needs throughout their lives. Since PrEP is being considered for integration in existing HIV services, HIV programmes need to ensure that a range of good practices are in place that are in alignment with the WHO global strategy (see Box 1).

Box 1. Good practice statements for HIV programmes (2)

HIV programmes should:

• Provide people-centred healthcare that is focused and organized around the needs, preferences and expectations of people and communities, upholding individual dignity and respect, especially for vulnerable populations, and engaging and supporting people and families to play an active role in their own healthcare through informed decision-making.

• Offer safe, acceptable and appropriate clinical and nonclinical services in a timely fashion aimed at reducing morbidity and mortality associated with HIV infection, and improving health outcomes and quality of life in general. This includes offering a client appointment system and acceptable frequency of facility visits, thereby avoiding long health facility waiting times for clinical consultations, medication pick-up or laboratory services.

• Build healthcare providers’ skills for effective communication with clients.

• Provide comprehensive integrated services, as appropriate and relevant, and coordinate care when people require multiple services (such as, tuberculosis and HIV treatment, harm reduction and family-centred care).

• Promote the efficient and effective use of resources.
Planning for PrEP services

At the national level, public health officials will need to discuss how and where to implement PrEP services. It is likely that a situational analysis will have to be conducted to determine which groups would benefit most from the provision of PrEP. Moreover, selecting specific sites and facilities at which PrEP will be offered requires an understanding of where people at substantial risk for HIV infection go for health services (or where they would likely access services if they do not already do so). In countries where PrEP services are currently being offered, a phase-in approach has frequently been adopted, whereby implementation has been initiated first in a selected number of sites with the intention of including additional sites to increase PrEP coverage as demand increases.

Integration

Based on its 2016 *Consolidated guidelines on the use of antiretroviral drugs for treating and preventing HIV infection* (2), WHO recommends the integration of HIV services – including HIV testing services (3) – with a range of other relevant clinical services such as those for tuberculosis, maternal and child health, sexual and reproductive health, as well as with harm reduction services for people who inject drugs and, in priority countries, with voluntary medical male circumcision programmes. The primary purpose of integration in this instance is to make services more convenient for people who attend health facilities for other reasons and to increase the uptake of HIV-specific services. The integration of HIV services is appropriate in all epidemic settings and is particularly important where HIV prevalence is high.

Similarly, the integration of PrEP in existing health services could be considered, for example PrEP could be integrated into services that are already being provided to key populations, such as HIV testing services and antiretroviral therapy (ART). Clinics that offer HIV testing services and ART will often have the resources required to initiate a PrEP service. Other settings that could consider integrating PrEP services include: sexual health clinics, family planning services, services for men who have sex with men and transgender people, services for sex workers, harm reduction services and private healthcare providers. As demand for PrEP increases, additional human and physical resources may be needed.

Clinical protocols and standard operating procedures

Clinical protocols and standard operating procedures need to be developed to initiate a PrEP service. As part of quality improvement, these documents have to be periodically reviewed and revised to address issues as they arise. The clinical module in this WHO PrEP implementation tool can provide the basis for establishing a clinical protocol for PrEP.

Standard operating procedures would need to be developed for staff involved in offering PrEP services (for example physicians and nurses). All staff would receive training in relevant standard operating procedures before they are implemented. There should also be protocols for training and supervising new staff at all levels. In addition, the clinic should have protocols for the procurement of required medicines and laboratory and clinical supplies.

Many clinics that provide PrEP will likely be able to perform onsite HIV testing using rapid diagnostic tests. Some sites may be able to perform additional laboratory tests needed for offering PrEP, while other sites will collect samples to be tested at local laboratories. Laboratory quality issues are addressed in the testing module in this WHO PrEP implementation tool.

Training for offering PrEP

The development of a PrEP curriculum and training programme would ensure all staff are informed and kept up-to-date on PrEP. An initial training session for all healthcare workers can help sensitize staff to HIV prevention by presenting the rationale for offering PrEP and the supporting evidence as well as the needs of specific populations. Additional specialized training, for example in the form of knowledge seminars, aimed at staff involved in the provision of PrEP services can cover key areas such as safety (including PrEP use in pregnancy), relevant testing before initiating PrEP, monitoring of PrEP users, counselling tools and approaches, etc. The training programme would also include mentoring, support, supervision and refresher training.
Counselling

Counselling, which is a critical element of combination HIV prevention, is an integral part of PrEP service provision. Hence, PrEP is both a biomedical and bio-behavioural intervention. Counselling can include important information on PrEP use, coping with side-effects and adherence, sexual health, relationship issues, drug and alcohol matters, and screening and support for gender-based violence. Since adherence is a critical predictor of the effectiveness of PrEP, counselling is an important opportunity to offer key messages around adherence to PrEP users.

Counselling may be provided by nursing staff or trained counsellors. In some settings, peer educators – who come from the same community as people receiving PrEP services – are employed to provide counselling and support. Training, ongoing support, mentorship and refresher training will need to be planned and provided to the people offering counselling services to PrEP clients. All cadres of health workers, including peer workers, need to be legally recognized – with job descriptions outlining their roles, responsibilities and reporting lines – and provided with standard operating procedures for the duties they are assigned and remunerated for.

Human resources

The human resources required to support PrEP will vary according to the different cadres of staff that are available in a country, the duties they are assigned and the local regulations governing health services such as prescribing medications, taking blood and other samples, performing tests and providing test results.

In some settings, PrEP services can be provided in full by nurses, who can contact a doctor or clinical officer for advice and support for complex issues; for example in South Africa, where nurses are prescribing PrEP under a programme run by the National Department of Health. Table 1 provides an example of the staff required to provide a PrEP service for 600 PrEP clients attending a clinic over a one-year period.

TABLE 1. EXAMPLE OF PERSONNEL NEEDED TO PROVIDE PREP

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>DUTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experienced clinical provider (physicians, clinical officer(^1) or nurse)</td>
<td>Provide general oversight of clinical services and be available to offer support for complex cases, including remotely (for example, via mobile phone text message, email, instant messaging, voice and video messaging, etc.).</td>
</tr>
<tr>
<td>Medical officer or nurse</td>
<td>Take structured sexual, drug use and medical history, measure vital signs (blood pressure and body temperature), perform phlebotomy, conduct point-of-care tests (HIV antibody, hepatitis B surface antigen), screen for sexually transmitted infections (STIs). Also, provide counselling on PrEP use and adherence, family planning and contraception, hepatitis B vaccination and STIs.</td>
</tr>
<tr>
<td>Counsellor</td>
<td>Provide information on PrEP and counselling on adherence, HIV prevention, sexual health and contraception.</td>
</tr>
<tr>
<td>Peer educator</td>
<td>Support education programmes that provide basic information on PrEP and other HIV prevention options, and how to recognize HIV risk. Support demand creation for PrEP and strategies for adherence.</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>Assure a supply of medications. Ensure medications are stored in a secure and climate-controlled facility and dispensed using best practices. (The pharmacist does not have to be permanently onsite.)</td>
</tr>
<tr>
<td>Pharmacy support staff</td>
<td>Fill prescriptions, including labelling, dispense medications and collect co-payments (if required in the local context). May also be involved in assessing adherence and counselling for more effective PrEP use.</td>
</tr>
</tbody>
</table>

\(^1\) Clinical officers are health professionals in parts of eastern and southern Africa. They are independent practitioners ( unlike medical and nursing assistants), who are trained in the medical model to practise the full range of medical duties and provide routine care in many clinical settings. Clinical officers have been the backbone of HIV care and treatment programmes in Africa to date, enabling the rollout of ART across the continent.
PrEP providers

The medicines used for PrEP currently require a prescription from a healthcare professional in most settings. This may be a medical doctor, clinical officer or nurse – since in some countries nurses and clinical officers are legally permitted to provide medicines. An HIV or infectious disease specialist may not be required for the provision of PrEP, depending on a country’s regulations and guidelines on PrEP. Regardless of professional background, training for staff in providing PrEP and other sexual health services is needed.

In some clinical settings, one full-time healthcare professional (doctor, clinical officer or nurse) could be sufficient to provide PrEP services for every 600 PrEP users. Task sharing with peer educators – who can provide counselling and basic information on PrEP and inform PrEP users on laboratory test results – could decrease the required provider time when PrEP services are first initiated.

Counsellors and peer educators

Counsellors can be either trained lay/peer counsellors or healthcare workers. Lay or peer counsellors have usually completed primary school education, have good interpersonal and communication skills, and may come from the community where the PrEP services are provided. Peer educators also often come from the community where they work. They support demand creation, provide information on PrEP and other prevention options, thereby raising awareness, and support adherence. They may provide services at the clinic site or through outreach services in the community.

Pharmacists

In most cases, a pharmacist has received a postsecondary degree and certification in pharmacy. A pharmacist is needed to lead the pharmacy that stores and dispenses PrEP medications. Pharmacies dispense a variety of medicines for different treatment regimens; a pharmacist responsible solely for PrEP is not usually required. The pharmacist’s duties are to assure there is a continuous supply of PrEP medications, that medicines are stored in a secure facility, that the optimal temperature (<30 °C) for stored medicines is maintained, and that standard operating procedures for dispensing medications are followed.

Task sharing

The standard operating procedures for offering PrEP services should be created by clinics to increase the consistency of care and support task sharing. For example, trained and supervised peer educators may be the best suited to provide services to their peers. They could be trained to conduct HIV testing, using rapid tests, and to provide key sexual health and harm reduction information and support for adherence. As with the provision of ART, a health worker (doctor, clinical officer or nurse) could supervise a team of peer educators linked to community networks and support organizations.

Medicine supply

The volume of medicine supply per client depends on dosing strategy, adherence and retention in PrEP services. In some demonstration projects, adherence among PrEP clients was 80–90% and retention in PrEP services varied (<50–80%) depending on the age of the user (4, 5). For example, a high estimate of the medicine supply requirement to support daily use prescriptions for 600 people starting PrEP would equate to 157 680 tablets (5256 bottles of 30 tablets) (600 x 365 x 0.9 x 0.8 = 157 680 tablets).

Laboratory testing and vaccinations

The testing module in this WHO PrEP implementation tool indicates the laboratory tests that should be available either at the point of care or from a reference laboratory as well as the rationale and specifications for these assays. Costs will vary widely according to setting and whether the assay is performed at the clinic or in an external laboratory. Quality assurance of all testing services – and the quality assurance system itself – should be in line with national quality assurance procedures.
Documentation and monitoring

While taking PrEP, users need to be regularly tested for HIV and other sexually transmitted infections, and to assess renal function. Tests for hepatitis B and C virus infection as well as for pregnancy should also be available for relevant populations. In addition, users should be regularly counselled on adherence, HIV risk, contraception, sexual health and other issues related to their use of PrEP. Documentation and monitoring is important to ensure that all the necessary tests are conducted at regular intervals and that PrEP is used in a safe and effective manner. An example of a medical record form for a PrEP visit can be found in the clinical module in this WHO PrEP implementation tool. Updating an existing medical form to include questions related to PrEP may be easier for staff to use than introducing an additional form. Data collection is essential for monitoring adverse events and other outcomes (particularly seroconversions that occur after a person has initiated PrEP). Capturing information on current and recent PrEP use is helpful for tracking new versus continuing PrEP users.

Training resources for healthcare providers

The table below lists some websites that offer training resources on PrEP designed for clinicians (doctors or nurses). These web resources are presented as examples and do not necessarily reflect the views or policies of the WHO.

**TABLE 2. PREP ONLINE TRAINING RESOURCES FOR CLINICIANS**

<table>
<thead>
<tr>
<th>SPONSOR/TITLE</th>
<th>LINK</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>JHPIEGO</td>
<td><a href="http://www.hivoralprep.com">www.hivoralprep.com</a></td>
<td>Online training tool and offline printable versions of the clinical and pharmacists modules will be available online from July 2018</td>
</tr>
</tbody>
</table>
Examples of PrEP programmes

This section provides case examples of PrEP services for different populations and in different regions. The summary descriptions have been submitted and described by the programmes themselves. WHO has not conducted any formal evaluations of these programmes or their results. They have been included here to show examples of providing PrEP services to a range of populations in different settings. Projects in this section are presented as examples and do not necessarily reflect the views or policies of the WHO.

National PrEP Programme, South Africa

On 1 June 2016, South Africa’s National Department of Health began offering oral PrEP, as part of a programme providing a comprehensive HIV prevention package and immediate ART provision, in ten sites around the country. As of 1 April 2017, 17 sites were providing oral PrEP via national implementation and over 1200 individuals had initiated usage. Furthermore, five TDF/FTC products, including four generics, have received approval for use as PrEP by the Medicines Control Council. South Africa has developed several useful tools and resources for PrEP implementation, including templates for monitoring, evaluation and reporting; information, education and communication materials; a site readiness audit tool; and various resources to support medicine quantification and stock monitoring.

PrEP Fact Sheet

PrEP is a new, safe, HIV prevention method for HIV-negative people to reduce the risk of becoming infected. PrEP pills need to be taken daily and help to prevent HIV.

When used consistently and as prescribed, PrEP has been shown to reduce the risk of HIV infection by more than 90% among people at high risk for HIV infection.

PrEP is another option for prevention. Prevention options include:

- Condoms
- PrEP
- PEP
- Counselling
- ART
- Healthy lifestyles
- Treatment for STIs
- Male medical circumcision
- ART for partners living with HIV

PrEP is only for people who are HIV-negative.

PrEP is recommended for people at high risk for HIV infection.
PrEP-30, Thailand

In response to continuously high HIV prevalence and incidence rates among men who have sex with men in Bangkok, the Thai Red Cross AIDS Research Centre launched the PrEP-30 project in December 2014 to provide PrEP to at-risk individuals as part of a comprehensive HIV prevention package. The PrEP-30 service is funded entirely through user fees of 30 Thai baht, less than US$ 1, per day. Fees are kept low and affordable through the procurement of locally produced generic medication and minimizing the use of costly laboratory testing. HIV antibody testing is performed at the first visit, then again after one month, and every three months thereafter. Hepatitis B screening is performed at baseline and renal function is monitored regularly. Other services, such as screening and treatment for sexually transmitted infections and hepatitis B vaccination are offered as indicated. The clinic is an innovative and sustainable model for HIV prevention including PrEP in Thailand.

By April 2017, a total of 976 individuals had initiated PrEP-30 at the Thai Red Cross Anonymous Clinic. The majority were male (95%) and men who have sex with men (86%). PrEP clients also included heterosexual (11%) and transgender (3%) men and women. Most were referred through HIV testing counsellors or through the Adam’s Love website, which provides online health education and counselling to gay and bisexual men in Thailand. Risk factors as indications for PrEP include: condomless intercourse (46%), multiple sex partners (44%), known HIV-infected sex partner (19%), previous use of non-occupational post-exposure prophylaxis (PEP) (15%), sexually transmitted infections (3%) and/or sex work (1%). Among those who continued PrEP and completed follow-up HIV testing, no new HIV infections had been detected.

National PrEP programme, Kenya

Using these guidelines, various PrEP initiatives are contributing towards the national PrEP programme targets. Oral PrEP is being introduced in everyday service delivery centres throughout the country, targeting tens of thousands of individuals at high risk of HIV. Under the implementation projects run by non-governmental organizations, facility readiness for PrEP scale-up has been assessed in approximately 50 sites (public and private health facilities and drop-in centres) and health service providers and pharmacists are being trained on PrEP service delivery, including commodity management.

NASCOP has established a PrEP technical working group, which has developed a service providers training toolkit and a national PrEP research agenda and protocol. Kenya has been host to both clinical and implementation research on oral PrEP, including the seminal clinical trial, Partners PrEP, which demonstrated the efficacy of TDF and TDF/FTC in HIV-1 serodiscordant heterosexual couples. In addition, formative research, as part of the the “Introducing PrEP Into HIV Combination Prevention – Kenya” demonstration project, is being conducted.

**FIGURE 1. PREP PROJECTS ARE CONCENTRATED AROUND NAIROBI, KISUMU AND THE LAKE REGION**

**Sonagachi Project, India**

Established in 1992, the Sonagachi Project in Kolkata’s red light district has been a pioneer in HIV prevention for female sex workers. It soon grew into the *Durbar Mahila Samanwaya Committee* (DMSC), a large community-based, community-owned sex work project that comprises more than 65,000 sex workers and continues to offer intensive, broad HIV prevention efforts to this day. The project is supported by the National AIDS Control Organization, Ministry of Health and Family Welfare Department.

An initial PrEP feasibility study indicated that the majority (99%) of sex workers were willing to take PrEP, and soon thereafter PrEP became available in this population as part of a demonstration project. DMSC also runs the Stand Alone Integrated Counselling and Testing Centre for sex workers, where they are regularly tested for HIV and syphilis, and care and counselling are given accordingly. The regular medicine disbursement process was also integrated with the tasks assigned to peer educators and peer monitors. This has helped in supporting sex workers with their adherence to PrEP. All local stakeholders, including doctors, pharmacists, *malkins*, *babus* and pimps, have been engaged and the benefits of PrEP have been explained to them so that they can help sex workers to adhere to their medication and use condoms regularly.

The total number of sex workers screened for the PrEP demonstration project from January 2016 through 1 October 2016 was 843. Out of these, 678 sex workers met eligibility criteria and were enrolled in the project. To date, more than 79% of participating sex workers have attended their assigned follow-up visit, 16 months after their enrollment in the project. A counselling form (addressing side-effects, adherence) is filled during each visit along with a clinical assessment.

Participants are reporting motivation in taking PrEP and recognize the benefit of combining PrEP with condoms, particularly in instances where a condom may get ruptured. PrEP is seen as additional, not substitute, protection to condoms, and peers have suggested several dissemination strategies to meet the diverse needs of women.
References


For more information, contact:

World Health Organization
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20, avenue Appia
1211 Geneva 27
Switzerland

E-mail: hiv-aids@who.int

www.who.int/hiv