TUBERCULOSIS AND HIV

IN 2017, 10 MILLION PEOPLE FELL ILL WITH TB AND 1.6 MILLION DIED FROM THE DISEASE



ANNUAL GLOBAL FUNDING FOR TUBERCULOSIS IS **US\$ 3.5 BILLION** SHORT OF WHAT IS REQUIRED

TB IS THE LEADING CAUSE OF DEATH AMONG PEOPLE LIVING WITH HIV

> In 2017, approximately 300 000 people died from AIDS-related TB

TB IS CURABLE: 45 MILLION LIVES HAVE BEEN SAVED SINCE 2000

UNAIDS IS

LIVING WITH HIV

WORKING WITH PARTNERS

DEATHS AMONG PEOPLE

BY 75% BY 2020

TO REDUCE TB-ASSOCIATED

SIMPLE, AFFORDABLE AND EFFECTIVE HIV/TB PROGRAMMES

- All people living with HIV should have access to:
- Antiretroviral Regular TB Therapy screening
- TB diagnostics TB preventive and treatment therapy (if no TB symptoms)
- All people living with TB should have access to: HIV testing and antiretroviral therapy TB treatment

"Ending TB, the world's biggest infectious killer, would save millions of lives and help lift people out of poverty and disease. A third of all people living with HIV die of TB, so the impact on the AIDS response would be enormous. By working together we can achieve a healthier future for all."

> **MICHEL SIDIBÉ** Executive Director of UNAIDS



An unprecedented opportunity

HIV-associated TB presents a risk to achieving the Sustainable Development Goals. Effective, sustained action is required to meet the needs of the most vulnerable populations.

United Nations Member States have committed to work towards the target of reducing deaths related to tuberculosis (TB) among people living with HIV by 75% by 2020, as well as reaching 90% of all people with TB with preventive or therapeutic treatment and achieving 90% treatment success for all people diagnosed with TB.

Member States have also set the framework for the HIV community's contribution to reduce the burden of TB among people living with HIV—all newly diagnosed people living with HIV should be screened for TB; all people with active TB must be started on treatment; people with no symptoms of active TB should receive preventive treatment; and all newly diagnosed adults and children living with HIV should be on antiretroviral therapy and either TB treatment or TB preventive treatment.

In 2018, the world is still far from reaching these targets and goals.

The 2018 United Nations General Assembly High-Level Meeting on Tuberculosis, taking place on 26 September at the United Nations in New York, United States of America, provides the world with a unique opportunity to take stock of the progress and shortfalls in the response to the interlinked epidemics of TB and HIV and forge a new partnership to end TB and AIDS as part of the Sustainable Development Goals.

The commitments from Member States must be bold and ambitious and leaders of Member States must be held accountable for their actions in taking urgent steps to end two of the worlds leading infectious diseases, TB and HIV.

TB and HIV—the facts

TB is the leading cause of death among people living with HIV

- TB bacteria are spread from person to person through the air.
- About 1.7 billion people (23% of the world's population) are estimated to have a latent TB infection that could potentially develop into active TB disease during their lifetime.
 - It is estimated that between 5% and 10% of people with latent TB will fall ill with the disease at some point in their lives.
- TB most often affects the lungs, and people with compromised immune systems, such as people living with HIV, people who have diabetes or people who are malnourished, have a much higher risk of falling ill.
 - People living with HIV with latent TB infection, for example, are 20 times more likely to develop active TB.
 - In 2017, 10 million people developed TB disease,
 9% of whom were people living with HIV.
- Around 70% of people with untreated pulmonary TB die within 10 years.
 - Although the risk is reduced by being on effective antiretroviral therapy, among people living with HIV, untreated TB is rapidly fatal in almost all cases.
- TB is be the top infectious killer worldwide, with three people dying of TB every minute.
 - In 2017, there were around 1.6 million TB deaths, including 300 000 people living with HIV.
- There has been progress in reducing TB deaths among people living with HIV in recent years, which were reduced by 44% from 2010 to 2017.
 - However, TB remains the leading cause of death among people living with HIV, accounting for one in three AIDS-related deaths.

TB is preventable and curable

- People living with HIV who do not have TB should start preventive treatment for TB in areas with high rates of the disease.
 - In 2017, around 1 million people living with HIV started preventive treatment for TB.
- The treatment success rate for people newly diagnosed with TB was estimated at 82% in 2016.
 - However, it is lower among people living with HIV.
- It is estimated that between 2000 and 2017, TB treatment averted 45 million deaths among HIV-negative people.
 - Among HIV-positive people, TB treatment, supported by antiretroviral therapy, averted an additional 9 million deaths.
- TB treatment is cheap and highly effective.
 - On average, treatment can give people in the middle of their productive life around 20 additional years of life.
 - This results in substantial economic and health returns.
- However, less than half of the estimated cases of TB among people living with HIV are found and notified, and less than 60% of known TB patients are tested for HIV, precluding treatment and resulting in preventable deaths.
- Despite its effectiveness, treatment of TB is long and toxic, and the side-effects often lead people to stop taking their medicines.
 - This lack of adherence has contributed to the rise in antibiotic resistance, which is jeopardizing efforts to end TB.
 - In 2017, around 560 000 people developed TB that was resistant to rifampicin, the most effective first-line medicine, and of these 82% had multidrug-resistant TB.

TIMELINE OF HIV AND TB

Tuberculosis (TB) is the leading cause of illness and death among people living with HIV. TB can be cured.



					2030 Sustainable Development Goal target date to end	
New WHO ommend with TB who IV should roviral therapy, their CD4 count.	2010 A study published in the American Journal of Tropical Medicine and Aygiene suggests that the Gambian puched rat could be trained to detect the B bacillus. Researchers hope that this 1.5 kg mammal, with a highly developed sense of smell, could one day be part of routine first-line screeening for TB. The rats are already helping to detect landmines. 2010 WHO endorses a new TB testing tool fat does not require trained laboratory technicians to a plago tag and so diagnose TB and multidrug-resistant TB cases in less than two hours.			AIDS and TB. 2016 600 000 people develop drug-resistant TB. 2016 A total of 10.4 million people fall ill with TB and 1.7 million people die from TB, including approximately 374 000 people living with HIV. 2016 WHO recommendations announced to speed up detection and improve treatment outcomes for multidrug-resistant TB through use of a rapid diagnostic test and a shorter, cheaper treatment regimen.		
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Data from decline in cases repo coincides antiretrovii Improvem national Tf this same case detec mean that reflects a t infections therapy.	002–2007 a from Botswana indicate a the in the number of TB es reported nationwide that ncides with rapid roll-out of iretroviral therapy. provements in Botswana's ional TB programme during same period, including e detection and reporting, an that this decline probably ects a true reduction in TB totions due to antiretroviral rapy.		2015 Eric P. G appointed as the Unite Special Envoy on Tube 2015 TB death what it was in 1990. 2015 Millennium Development Goal 6 target date to combat	ed Nations erculosis.	2017 WHO Global Ministerial Conference on Ending TB, at which 120 national delegations adopt the Moscow Declaration to End TB. 2017 For the first time, the number of people living with HIV accessing treatment exceeds the number of people not on treatment.	
B response shows a cumulative total of 36 million ITS programmes (the internationally recommended n deaths averted. ost parts of the world, except for the HIV epidemic, especially where			HIV/AIDS, malaria and	MBAT HIV/AIDS, LARIA AND OTHER EASES	2018 26 September. First ever United Nations General Assembly High-Level Meeting on Tuberculosis "United to end tuberculosis: an urgent global respons to a global epidemic".	se
2000	-2017 An esti	• mated 45 million lives were	e saved through TB diagn	osis and treatment	between 2000 and 2017.	

Together we can end TB and HIV

Many breakthroughs can be achieved by improving collaboration between HIV and TB programmes and investing in diagnostics, vaccines and medicines, including preventive medicine and medicine to treat TB, including multidrug-resistant TB. However, more commitment, investment and action are needed.

It is estimated that US\$ 10.4 billion is required in 2018 for an effective response to TB in the 118 low- and middle-income countries that account for 97% of reported cases globally. The actual amount available in 2018 was US\$ 6.9 billion, a shortfall of US\$ 3.5 billion.

To respond effectively to HIV, UNAIDS estimates that US\$ 26.2 billion will be required for the AIDS response in 2020. In 2017, US\$ 21.3 billion was available in low- and middle-income countries, a shortfall of around US\$ 5 billion. Filling the funding gaps as well as investing in research and innovation will not only save lives but yield significant returns.

Countries with a high burden of HIV-associated TB need to rapidly integrate and scale up their TB/HIV services. Early and frequent TB screening and testing for people newly diagnosed with HIV is essential and the delay between diagnosis and treatment must be drastically reduced.

People diagnosed with active TB must be started on treatment and people with no symptoms of active TB should immediately receive TB preventive treatment. Similarly, people newly diagnosed and treated for TB should be encouraged to test for HIV and if HIV-positive should be started on antiretroviral therapy as soon as possible. TB and HIV programmes need to coordinate efforts to find the missing millions who are not being reached by HIV and TB services. This can be done by:

- Informing and engaging key populations about their increased risk of TB and HIV and facilitating better access to client-centred TB and HIV prevention, diagnostic and treatment services.
- Integrating TB and HIV service delivery for key populations using a "one-stop shop" model.
- Reconfiguring health services to better reach and meet the needs of the communities being left behind.
- Identifying vulnerable households and communities to guide community case-finding activities.
- Multidisease health screening campaigns that can be tailored to the major causes of vulnerability, morbidity and mortality in each community, with the costs shared between health, social and education programmes.

TB and HIV programmes must advocate for the political commitment needed to build the components of universal health coverage that are necessary for an effective global response to HIV-associated TB. These include sustainable health financing, health systems governance, the health workforce, essential medicines and health products, health statistics and information systems, and service delivery.

In addition, TB and HIV programmes must advocate, together with other health programmes, for governments to actively engage and invest in addressing the social and structural drivers that increase people's risk of falling ill or reduce their access to services, such as stigma, discriminatory laws and practices, poverty and gender inequality.

By working together we can end TB and HIV.



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