

HIV and TB in the context of universal access: What is working and what is not?

Report of an international open consultative meeting held in conjunction with the XVI International AIDS Conference, Toronto, Canada, 12–13 August 2006





Summary

meeting was co-organized by the World Health Organization (WHO), the Joint United Nations Programme on HIV/AIDS (UNAIDS), the International AIDS Society, the Treatment Action Group and the Forum for Collaborative HIV Research on behalf of the Global TB/HIV Working Group of the Stop TB Partnership in conjunction with the XVI International AIDS Conference in Toronto, Canada, on 12-13 August 2006. The objective of the meeting was to accelerate an effective and joint response to the epidemic of HIV-related tuberculosis (TB) by facilitating the sharing of information and experiences, networking and strengthening the partnership between TB and HIV (human immunodeficiency virus) communities in a forum environment. Lively and interactive discussion was promoted by a very successful marketplace, where participants presented and promoted their experiences, results, views, opinions and country-level findings in poster and display formats. The meeting was attended by almost 300 participants, mainly representing the HIV community, who were also attending the International AIDS Conference. A tribute was paid to Dr Lisa Onyemobi, WHO TB/HIV National Professional Officer in Nigeria, who died suddenly earlier in 2006. The meeting was followed by a TB/HIV satellite symposium on the afternoon of 13 August 2006, which was held as part of the International AIDS Conference. The International AIDS Society, Forum for Collaborative HIV Research, co-organized the satellite symposium with the Stop TB and HIV Departments of WHO.





Achievements applauded but still more to be done

he goals, principles and achievements of the Global TB/HIV Working Group of the Stop TB Partnership since its establishment in 2001 were reviewed by Dr Paul Nunn, Coordinator of the WHO team in the Stop TB Department concerned with TB/HIV and anti-TB drug resistance. The development of TB/HIV policy and implementation tools and the inclusion of TB/HIV in the new Global Plan to Stop TB, the Patients' Charter and Stop TB advocacy activities were highlighted. The Working Group promoted effective and integrated TB and HIV prevention, treatment and care through development of all necessary tools and systems, advocacy and partnership building and technical support to countries. Although, there was a rapid scale-up of activities

in some countries, implementation at country level fell far short of planned achievement. Moreover, the limited engagement of the HIV community in the global response to TB/HIV, and in the activities of the Working Group, was repeatedly cited as a key barrier. Dr Kevin De Cock, Director of the HIV Department at WHO, echoed this limited engagement of the HIV community in TB/HIV activities, saying "TB is the single biggest threat to the success of antiretroviral therapy scale up. We [the TB and HIV communities] often take a risk by not talking to each other and not engaging civil society." He affirmed that linking the meeting of the Working Group with the International AIDS Conference provided the opportunity for greater involvement of the HIV

community in TB prevention, diagnosis and treatment, particularly in the wake of the emergence of extensively drug-resistant TB (XDR TB), which had the potential to compromise the gains of antiretroviral therapy programmes in those HIV-and TB-prevalent settings.

A number of challenges for scaling up collaborative TB/HIV activities were acknowledged, including lack of appreciation of the link between TB and HIV, weak health systems to deliver the interventions, limited financial and human resources, difficulties in coordinating or integrating TB and HIV services, cultural differences between the two communities and lack of effective tools to prevent, diagnose and treat TB in people living with HIV. Increased TB/HIV leadership was needed from key HIV stakeholders, including WHO, UNAIDS, the Office of the Global AIDS Coordinator in the United States of America, the International Aids Society and others, to ensure the implementation of collaborative TB/HIV activities and ensure lives are saved. Dr De Cock reiterated the commitment of the WHO HIV Department to those goals by announcing that his department, in close collaboration with the Stop TB Department, would organize in due course a consultation meeting to address and give clear guidance on implementation of the elements of TB/HIV that were primarily the responsibility of the HIV side, notably TB prevention for people living with HIV (isoniazid preventive therapy and TB infection control), intensified TB case finding and delivery of TB prevention, and diagnosis and treatment services within the context of HIV services.

In concluding the meeting, Craig McClure, Executive Director of the International AIDS Society, reinforced the society's commitment to work more closely with the TB/HIV Working Group and to raise the profile of TB in their work and future conferences in order to reduce the impact of TB in people living with HIV. The role that the International AIDS Society played in organizing this preconference and the satellite meetings was greatly appreciated.

Universal access and the Millennium Development Goals

n July 2005, the G8 leaders made a commitment in Gleneagles to achieving universal access to HIV prevention, treatment, care and support for all those who need it by 2010, a target that was further endorsed by the United Nations General Assembly in October 2005. Dr Cate Hankins of UNAIDS presented the universal access concept and its importance and contribution to TB prevention, diagnosis and treatment services.

Rather than setting global targets, UNAIDS had been coordinating regional consultation to enable countries to set their own ambitious and time-bound targets for universal access and to monitor and evaluate their progress through the selection of appropriate key indicators. Although universal access could contribute significantly towards achievement of Millennium Development Goal 6 (to combat HIV/ AIDS, malaria and other diseases), many HIV activists and advocates expressed their concern at the lack of ambitious global targets, which would have stimulated countries to quickly set their targets and also held the global community accountable for the achievement of those targets.











The recent African Union Common Position on universal access to HIV/ AIDS, TB and malaria services by 2010 was applauded. This included targets of screening for TB 100% of all clients accessing HIV care and support services to ensure early detection and treatment; giving 100% of TB patients access to HIV testing and counselling services; and giving 100% of HIV-positive TB patients access to antiretroviral therapy. The international community must support these ambitious targets as the region bears the brunt of the global TB/HIV burden.

Headlined country stories

Experiences from Kenya, Myanmar and Russia were presented during the plenary session. Kenya had a National Five-Year TB Control Strategic Plan, which intended to test at least 80% of all TB patients for HIV and provide cotrimoxazole preventive therapy and antiretroviral therapy for 80% of those TB patients who were found to be HIV-infected. It had established a comprehensive policy framework, guidelines and tools for TB/HIV control at national, provincial and district levels. The revision of the routine TB recording and reporting form, which now included HIV test results, CD4 cell counts and provision of cotrimoxazole preventive therapy, had been useful to document the range of activities. HIV testing in TB patients increased from 32% to 41% to 50% over three quarters in 2005 and 2006, of whom 56% were HIV-positive in the first quarter of 2006. Cotrimoxazole preventive therapy was provided to 84% of HIV-infected TB patients and antiretroviral therapy to a third of the patients. However, isoniazid preventive therapy had not been widely implemented due to slow progress in the screening of people living with HIV for TB. The experience of Kenya demonstrated that nationwide scale-up of routine HIV testing for TB patients was possible and useful for HIV surveillance in TB patients and was greatly facilitated by a revised TB recording and reporting system.

In Myanmar, another country with a high TB burden, the HIV prevalence among TB patients was estimated at 7%. The response to TB/HIV by the Ministry of Health included development of treatment guidelines for TB/HIV, establishment of coordination group with crosstraining of staff of the national TB programme and national AIDS programme, TB/HIV service delivery in five pilot projects and establishment of a TB/HIV sentinel surveillance system. The pilot projects

included cross-referral between TB clinics (TB diagnosis), clinics dealing with sexually transmitted infections (HIV testing) and general hospitals (antiretroviral therapy, cotrimoxazole preventive therapy, and treatment for opportunistic infection). The project facilitated an organized system for recording and reporting of TB and HIV without additional infrastructure or manpower support.

Russia was another country with a rapidly spreading HIV epidemic, and a twofold increase in TB incidence and mortality had occurred in the last decade. The specific challenges for scaling up collaborative TB/HIV activities included the vertical and rather isolated TB and HIV control programmes, the tendency for longer inpatient management and weak links between nongovernmental organizations and the public health system. Although HIV testing among TB patients was almost universal, proper counselling was often not conducted, compromising the quality and implementation of collaborative TB/HIV activities.

Civil society engagement for the better

The role of nongovernmental organizations and affected communities was crucial in expanding collaborative TB/HIV activities, particularly through strengthened partnership with the public health system. Experiences of involvement of nongovernmental organizations in TB/HIV were presented. For example, in Myanmar the Union had established a model of integrated HIV care for TB patients, which included routine offers of HIV testing for TB patients and free diagnosis, treatment and prevention

services, including cotrimoxazole preventive therapy and antiretroviral therapy. The model involved standardized HIV treatment and patient follow-up and recording and reporting. The Government of Myanmar was planning to scale up this model, pending the availability of funds. In India the LEPRA Society, a nongovernmental organization that collaborated with the Revised National Tuberculosis Control programme in urban and rural areas, had educated various stakeholders from both the public and private sector in TB/HIV and involved them in related activities. Nongovernmental organizations working on HIV and AIDS needed to include TB as a core consideration and their involvement in national responses to TB/HIV should be strengthened.

In general, it was noted that the involvement at global and national levels of civil society in advocacy and implementation of collaborative TB/HIV activities needed further improvement. Public Health Watch research in five countries found that few mechanisms existed to encourage broad public participation in the development and evaluation of TB and TB/HIV policy at the domestic or international level. The need for succinct and clear advocacy and communication messages to enhance the engagement of civil society in TB/HIV was discussed. Primary messages should be extracted from the key milestones and planned achievements of the Strategic Plan of the Global TB/HIV Working Group (2006-2010) to inform civil society decision-makers on what needed to be achieved and to indicate what was needed from civil society.

Looking beyond the patient

t was noted that expanding the range of TB care beyond the individual patient would help improve the quality of care for HIV-infected TB patients. For example, in Myanmar overall care was shown to be improved by offering HIV testing for partners and family members of TB patients, followed by post-test counselling and home-based care. Similar experience was also documented from Ghana, where an antiretroviral therapy clinic was instrumental in improving the quality of life for HIV-infected TB patients and their families through provision of comprehensive prevention, care and treatment services. Pediatric clinics were held on the same premises, making it easy for families to be managed together. The exemplary experience was mentioned of Khayelitsha District in South Africa, where a 24-hour social and forensic service to assist women who had been raped was installed, and which resulted in increased prosecution of rapists. These experiences called for broader involvement of the health sector in a holistic approach towards solving the problems of patients, even if they were not strictly in the health domain.

What direction for TB?

Dr Jim Yong Kim of Harvard University presented the historical perspective of international TB advocacy and the DOTS (directly observed treatment, short-course) strategy, contrasting it with the public health approach of antiretroviral therapy scale-up. Although DOTS was a clear strategy he recalled the early resistance to its implementa-

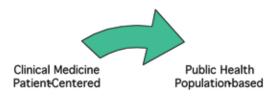




tion among key TB stakeholders. He said increasing activism on human rights and social justice grounds had brought a new paradigm to international public health and had influenced the implementation of programmes including treatment access for HIV and TB (Figure 1). He viewed the new Stop TB strategy as a response to this changing global paradigm. However, despite the importance of simplified tools for clinical decision-making and standardized case management, he was concerned that clinicians had been so dominant in the early stages of HIV treatment scale-up. He also cited the controversy and the lack of consensus around HIV testing policies as an issue with the potential to limit the implementation of collaborative TB/HIV activities.

The role of activism for HIV was

Figure 1. The emerging paradigm in global health





also noted by Dr Michel Kazatchkine, who chaired the session that discussed the TB/HIV Working Group's Strategic Plan. He said intense activism and greater treatment literacy in the developing world helped to reduce antiretroviral drug prices by 95%, increase funding for HIV research and programme implementation, and had resulted in antiretroviral therapy adherence rates that were as good or better than in industrialized countries. TB/HIV activ-

ism and advocacy were not yet adequately developed despite emerging positive experiences. More resources should be leveraged for TB and TB/ HIV research and implementation. One participant contrasted successful leveraging of United States resources for HIV/AIDS and malaria through the President's **Emergency Plan for AIDS**

Relief (PEPFAR) and the presidential malaria initiative with the lack of resources being committed to TB.

Isoniazid preventive therapy for early HIV infection

hough evidence existed for the efficacy of isoniazid preventive therapy, it was noted that implementation had been slow in many countries, primarily due to concerns about screening protocols for TB and resistance to isoniazid. The role of chest X-rays in ruling out active TB was significantly reduced in those settings where infrastructure was poorly developed and health systems were weak. Implementation of isoniazid preventive therapy by HIV services was called for, with an emphasis on screening for TB in HIV counselling and testing centres, where clients were more likely to have early HIV and screening for TB was easier. TB screening should be strengthened in all service delivery areas, including outpatient departments and antiretroviral therapy programmes, to increase early detection and treatment of TB. This would entail cross-training of health-care workers in both HIV

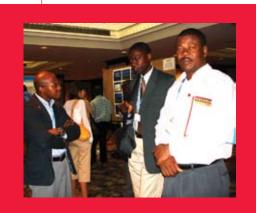
and TB and increased collaboration between the two programmes. Documentation of the programmatic impact of the nationwide roll-out of the isoniazid preventive therapy programme in Botswana should be urgently assessed and disseminated.

TB/HIV preservice training

Pre-service training for health-care workers should include collaborative TB/HIV activities. The experience from Zambia on how revising the curriculum for pre-service training contributed to changes in the practice of doctors was cited as a good example. Along with designing and revising the curricula of health cadres, continuing education and in-service training were also emphasized.

Debating the targets

uring the discussion on the 10year Strategic Plan of the TB/ HIV Working Group, the timebound targets included in the plan were debated. Proponents of the targets mentioned the "3 by 5" initiative, which had been criticized for being introduced without proper consultation with partners but had resulted in changes of mindset and demonstrated that antiretroviral therapy scale-up programmes could happen in resource-constrained settings. Moreover, it had triggered a strong reaction and forced stakeholders to discuss accountability. Similar movement was crucially needed to rapidly scale up the implementation of the collaborative TB/ HIV activities of the Strategic Plan, which were in line with the univer-





sal access concept. A participant mentioned the case of Eastern Europe, where targets were commonly used to ensure implementation and progress, and where progress might be hampered by the absence of such targets.

Those opposing the targets, however, argued that the lesson of the "3 by 5" initiative was that targets should be set realistically at country level with due consideration for local situations and context. They expressed concern that the TB/HIV targets in the Strategic Plan were too ambitious and might therefore deter global HIV stakeholders. They called for more consultation and discussion about the TB/HIV targets, particularly within the global HIV community. The importance of having time-bound country-level targets as critical steps to accelerate the implementation of collaborative TB/HIV activities was reiterated. It was also noted that massive investment in health systems was required to make them strong enough to deliver the services. However, it was agreed that more detail was needed to underpin discussions of health systems, particularly to highlight how specific efforts related to TB and HIV could contribute to the overall efforts of strengthening the health system.

Models for options

The meeting was agreed that different models implementing collaborative TB/HIV activities had been shown to work. The health system structure, including human and financial resources, and the disease burden determined the way services were delivered. The difficulty in defining one ideal model of delivery, applicable across all regions, was dis-

cussed. However, it was emphasized that increased focus was needed to ensure the delivery of integrated HIV and TB services through primary health care to the extent possible. There was agreement on the importance of documenting and disseminating successful experiences and developing generic models of service delivery that took into consideration variations across regions and health systems.

Research: Great needs and little investment

The key research directions identified in discussions were intensified TB case finding, the diagnosis of smear-negative TB among people living with HIV, TB preventive treatment, clear understanding of the incidence and risk factors for immune reconstitution syndrome and its clinical definitions and diagnosis, the link between poor nutritional status and mortality among HIV-infected TB patients and the collective population-based impact of the implementation of the 12point collaborative TB/HIV activities as a package. Researchers (in TB and HIV) and donors needed to prioritize these research areas.

Effective advocacy and activism were needed to ensure a great increase in investment not only in HIV-related TB but also for research into TB prevention, diagnosis and treatment in general. This was discussed by Mark Harrington, a long-time HIV activist who was partly responsible for the notable increase in investment in basic science research into HIV infection to ensure better HIV treatment and improved access to antiretroviral therapy globally. He shared his experience to illustrate the important role that activ-











ists could play through engagement in the coordination and policy decisions of research at all levels. He also presented the preliminary results of a survey that was conducted by the Treatment Action Group among 100 institutions involved in funding TB research and development in 2005. The survey found that US\$393 million had been invested in TB research and development in 2005. Intensified action was required to increase investment in TB research and, at the same time, to increase the visibility of the needs for TB research. Special initiatives were needed to attract young researchers into TB research.

XDR TB: the emerging threat

presentation was made of a survev that had been carried out in rural KwaZulu-Natal Province, South Africa, among 1539 patients. The survey had detected multidrugresistant (MDR) tuberculosis in 221 patients, of whom 53 had extensively drug-resistant (XDR) tuberculosis. Prevalence among 475 patients with culture-confirmed tuberculosis was 39% (185 patients) for MDR and 6% (30) for XDR tuberculosis. All 44 patients with XDR tuberculosis who were tested for HIV were coinfected. 52 of 53 patients with XDR tuberculosis died, with median survival of 16 days from time of diagnosis.1 It was noted that the finding had the potential to undermine achieved successes in TB control and compromise the benefit of the introduction of antiretroviral therapy for HIV-infected TB patients.

The circumstances that led to the emergence of XDR TB in KwaZulu-Natal needed to be investigated in detail and the lessons learned shared with other countries. Furthermore, it was noted that the emergence of MDR and XDR TB called for improvement of basic TB control programmes and for greater integration of TB and HIV services, with specific measures to address transmission of TB to co-infected patients. Improved diagnostic methods and treatment should be an additional priority for management of XDR TB in people living with HIV. XDR TB and the related high mortality had also exposed the importance of improving infection control, for example by using relatively simple methods to control hospital infection, such as opening

windows, having outdoor waiting areas and cough hygiene.

New tools, but more still needed

n overview was presented of the diagnostic pipeline, particularly the work pioneered by the Foundation for Improved New Diagnostics (FIND) to improve TB diagnosis among people living with HIV. FIND's work on improving TB diagnosis in people living with HIV included development, evaluation and demonstration of new molecular techniques, and demonstration projects for the liquid culture mycobacteria growth indicator tube (MGIT) system. A new fluorescent microscope that was more sensitive, low costing, robust and user friendly, and did not require use of a dark room, was being developed with a competent manufacturing partner. Feasibility studies using the loopmediated isothermal amplification (LAMP) technique had been funded in Peru, Tanzania and Bangladesh. Additional diagnostic methods based on rapid antigen detection that had been supported by FIND included a test to identify lipoarabinomannan (LAM) in urine (Tanzania) and the evaluation of interferon gamma release assays (studies of the Consortium to Respond Effectively to the AIDS/TB Epidemic; CRE-ATE). The efforts of FIND in developing new tools to improve TB diagnosis were acknowledged and the need for more effort and investment to ensure the speedy development of the new tools was emphasized.

¹ Lancet 2006, 368:1575-80.

Addressing neglected areas

ritical issues that had been neglected in the global response to HIV-related TB were highlighted, including the optimal treatment regimens to use when treating TB and HIV at the same time, mainly due to the interactions between rifampcin and nevirapine. Although the current WHO antiretroviral therapy guidelines were permissive for the concurrent use of these drugs where liver enzyme testing was readily available, the meeting participants reiterated that the message was not clear enough to promote nevirapine as first-line drug for TB patients.

The Working Group should maintain its focus on sub-Saharan Africa, which carried the brunt of the problem. However, the rising burden of HIV in Asia and Eastern Europe also needed more attention, particularly to address HIV-related TB in injecting drug users. HIV-related TB in children also required an intensified action in the global response.

New diagnostic tools were required, particularly to prevent the deaths from undiagnosed TB of people living with HIV. In the meantime it was important to ensure that existing tools were widely available and used appropriately. Mobilizing financial and human resources to strengthen the TB and HIV capabilities of laboratories remained a challenge but remained crucial to mounting an effective response.

HIV testing: Still barriers

IV testing was the gateway through which HIV-infected TB patients could receive HIV treatment, care and support services. However, scale-up was slow. Lack of operational details on how to perform diagnostic counselling and testing, particularly for TB patients, the perceived stigma associated with the testing and the scarcity of human resources were cited as critical barriers.

PMTCT services: Missed opportunity for TB/HIV?

xperiences from South Africa and Zambia on the integration of TB prevention, diagnosis and treatment into prevention of mother-to-child transmission (PMTCT) services were reported and discussed. TB was increasingly a cause of maternal mortality, particularly in HIV-prevalent settings. The risk of vertical transmission of maternal TB, and the associated higher rate of premature births, low birth weight and intrauterine growth retardation, was also noted. However, certain obstacles impeded the mainstreaming of TB prevention, diagnosis and treatment services into PMTCT services, such as low coverage of antenatal care and PMTCT services, and the short client contact time typical of routine antenatal services, which did not allow enough time for TB screening. It was also likely that most pregnant women presented late for their fist visit. Several research issues that needed to be addressed urgently were noted, including alternative

PMTCT regimens for HIV-positive women and the feasibility and efficiency of symptom-based screening for TB at pretest counselling and at all antenatal clinic visits.

Marketplace presentation: Experiences from countries

BRAZIL

Data from the THRio study, designed to determine whether the routine detection and treatment of TB infection found in HIV-infected patients in HIV clinics in Rio de Janeiro reduced TB incidence in the clinic population receiving HIV care, showed that combining isoniazid preventive therapy with antiretroviral therapy significantly reduced the incidence rate (IR) of TB. It was found that compared to





patients receiving neither isoniazid preventive therapy nor antiretroviral therapy (IR=3.6/100 person-years), patients with only antiretroviral therapy had a decreased risk (IR=1.7/100PY); patients with only isoniazid preventive therapy had further decreased risk (IR=0.7/100PY); and patients receiving both isoniazid preventive therapy and antiretroviral therapy had the lowest risk (IR=0.6/100PY).







CAMBODIA

Special approaches were needed for the implementation of the National Framework for TB/HIV in urban areas. A mobile voluntary and confidential counselling and testing serviceby a TB/HIV coordinator at health centres had been implemented, and the number of TB patients taking a HIV test had increased. Similarly, a formal referral system between TB and HIV services through a homebased care team and a mechanism to share information and reporting systems had been established.

DEMOCRATIC REPUBLIC OF THE CONGO

Experience from Kinshasa showed that most HIV-positive TB patients were started either on cotrimoxazole preventive therapy or antiretroviral therapy while on TB treatment. However, an evaluation carried out one year later found that this HIV care stopped after patients had completed their TB treatment, indicating the need for continued HIV care and support groups at TB clinics or better functioning HIV care centres.

DOMINICAN REPUBLIC

In 2003 the Dominican Republic started a joint plan for TB/HIV activities, including setting up a technical coordination body, determining national HIV prevalence among TB patients, and defining TB/HIV care packages. Isoniazid preventive therapy and intensified TB case finding had been established. Mechanisms for human resource training, budget and monitoring and evaluation plans, and obtaining regular reports had yet to be established.

GHANA

Experience was presented of an antiretroviral therapy clinic housed

in an existing chest clinic in a hospital. It had been instrumental in improving the quality of life for HIV-infected TB patients and their families through provision of comprehensive prevention, care and treatment services.

HAITI

Work done to determine whether chronic cough (≥3 weeks) could be used as an effective public health tool to identify patients with active tuberculosis was presented. Among people who presented for HIV voluntary counselling and testing 10% reported chronic cough, and a third were diagnosed with active tuberculosis. The majority (60%) had smear-negative tuberculosis and the HIV co-infection rate was 54%. The approach allowed for rapid diagnosis and treatment of individuals with tuberculosis, prevention of nosocomial transmission of tuberculosis, and provision of prophylaxis for HIV-infected individuals without active TB.

INDIA

The LEPRA Society, a nongovernmental organization based in Andhra Pradesh collaborated with the Revised National Tuberculosis Control programme to sensitize and involve various stakeholders from both public and private sectors in order to improve the quality of care provided for HIV-infected TB patients.

NIGERIA

The experience of the National TB/HIV Working Group, which was revitalized during a national consensus-building meeting held in March 2005, was presented. The experience highlighted the importance of a functional, broad-based TB/HIV working group at all levels to roll out collaborative TB/HIV activities. The experience also showed that

strengthening the health delivery system was an important factor for successful and sustainable implementation of collaborative activities.

SENEGAL

A survey that was conducted among regional and district medical officers in Senegal about universal access to HIV and TB prevention, treatment and care found low levels of awareness and absence of specific policies. Although both antiretroviral therapy and TB treatment were free, they were not readily accessible to patients due to distance from health facilities and financial constraints making it difficult to afford diagnosis and treatment services (for example chest X-rays).

SUDAN

The Omdurman voluntary counselling and testing and clinical management clinic was established in 2002 by the Sudan National AIDS Control programme. It had been observed that many of the patients attending the clinic had TB, stimulating collaboration with the Epidemiological Laboratory Centre, the National Tuberculosis Control programme and the Stop TB Board, and improved provision of quality care for HIV-infected TB patients.

Another experience presented from Sudan was the outcome of brainstorming sessions on TB/HIV held with people living with HIV and TB. Socioeconomic status, stigma, education, medical care, rights and psychological well-being were identified as the core concerns of both groups. However, while stigma was of particular concern for people living with HIV, it had little importance for a TB patient.

UKRAINE

A study conducted by the Program for Appropriate Technology in Health (PATH) found that awareness about TB among people living with HIV was low, and due to misconceptions about TB people living with HIV were often discouraged from seeking care, resorting instead to self-treatment. Remedial measures being undertaken included TB education targeting people living with HIV; strengthening the quality of TB care for people living with HIV; and training in TB for medical personnel caring for people living with HIV.

ZAMBIA

A presentation was made of a hospital-based model for integrated TB and HIV services. First, an assessment had been made of existing outpatient, voluntary counselling and testing, TB, HIV, laboratory and pharmacy services to map a strategy for services integration. A two-day clinic-based training workshop was then conducted to cross-train health staff from various departments on TB/HIV. Patient flow algorithms and reformatted registers were developed for each department. A second clinic-based training workshop was held to introduce revised algorithms and registers. The model involved HIV diagnostic counselling and testing, immediate CD4 measurement for newly diagnosed HIV-infected TB patients, and spot sputum sampling in several clinic departments (voluntary counselling and testing, HIV clinic, outpatient).

Another experience presented from Zambia was the collaboration of Zambart, part of CREATE, with Chongwe District health management team in helping to construct a room to offer HIV testing and strengthen the implementation of





collaborative TB/HIV activities, and meeting the costs for CD4 testing and transportation costs. This helped HIV-infected TB patients to benefit from antiretroviral therapy.

Marketplace presentation: Experiences from partner organizations

PUBLIC HEALTH WATCH

Findings were presented of research conducted by civil society researchers of the Public Health Watch of the Open Society Institute in Bangladesh, Brazil, Nigeria, Tanzania and Thailand. The research monitored





governmental policies to control TB, and advocated improvements.

CENTRES FOR DISEASE CONTROL AND PREVENTION

A presentation was made on the Routine Diagnostic Testing and Counselling in TB Clinical Settings Trainer's Manual, which provided a standardized approach through which programmes could implement and scale up routine diagnostic HIV testing and counselling. It included a curriculum and four-day training package for health-care providers.

RESEARCH INSTITUTE OF TUBERCULOSIS, JAPAN

The institute had been conducting international courses in TB control and HIV prevention and care in Asia. TB/HIV was one of the core components of the TB course and TB/HIV operational research had been introduced recently. Participants were encouraged to develop action plans on TB/HIV operational research. The institute would introduce TB/HIV and operational research as core components of the AIDS course and planned to receive participants from both HIV and TB programmes to promote TB/HIV collaboration in Asia.

WORLD HEALTH ORGANIZATION

The WHO Integrated Management of Adult Illness (IMAI) toolkit consisted of simplified, operationalized guidelines; clinical and management training materials; and patient self-management and educational aids to support scale-up. A new draft guideline module, TB Care with TB-HIV Co-management, supported effective clinical co-management of TB and HIV by primary care workers. The guideline module had been adapted for use in several countries, including Tanzania, Ethiopia, Namibia, and Haiti.

The WHO Regional Office for Europe, in a presentation, said its priorities included technical assistance for countries in policy development, strengthening TB/HIV surveillance, training in operational research for TB/HIV, training in TB/HIV management, organization of regional TB/HIV conferences and the development of guidelines. Many interventions, however, remained vertical in nature, and there was limited interaction between HIV and TB activities. It was concluded that financial and technical partners

could assist countries in addressing the epidemic only if their support supplemented national government funding and commitments.

TUBERCULOSIS CONTROL ASSISTANCE PROGRAM

This funding mechanism, supported by the United States Agency for International Development (USAID), was operated by the TB Coalition of Technical Assistance, which comprised eight technical agencies. TB/HIV featured as an important element in its area of work, with scaling up being the priority. The comparative advantage of the programme was that it formed a coalition of major TB agencies and thus comprised expertise in all areas of the Stop TB strategy, including TB/HIV.

ZAMSTAR (ZAMBIA SOUTH AFRICA TB AND AIDS REDUCTION) STUDY

ZAMSTAR, part of the CREATE consortium, aimed to evaluate interventions to reduce TB at the community level by means of a community randomized trial in Zambia and South Africa. The cooperation of all stakeholders, although important for the successful implementation of the study, was difficult to achieve, and greater collaboration between the TB and HIV control programmes was needed.

Conclusions and recommendations

The following conclusions and recommendations emerged from the meeting, categorized here according to the organizations and programmes to which they were most applicable.

Global TB/HIV Working Group, including partner organizations

- Pay greater attention to the TB/ HIV situation in Eastern Europe and Asia, and focus on addressing structural and health systems barriers;
- Design improved ways of delivering isoniazid preventive therapy, especially to those with early HIV infection. The experience in Botswana in rolling out a nationwide isoniazid preventive therapy programme had to be assessed and experiences shared;
- Promote the use of fixed drug combinations of antiretroviral drugs for HIV-infected TB patients by identifying the most effective types of drugs and supporting their registration by national authorities;
- Prioritize national planning processes that set national TB/HIV targets;
- Accelerate efforts towards ensuring rapid scale-up of collaborative activities and ensure adequate progress towards the 2007 TB/ HIV milestones of the Global Plan (2006–2015);
- In the case of the Stop TB Partnership, give more prominence to health system strengthening as an important means of achieving the targets in the Global Plan,

- including those related to TB/HIV;
- Include PMTCT policy-makers and service providers in Working Group membership and reach out more to the reproductive and maternal health community;
- Urgently develop technical guidance on how to conduct diagnostic HIV counselling and testing, particularly for TB patients.

National policy-makers, HIV and TB control programmes

- Introduce programmatic issues on TB/HIV and collaborative activities in pre-service training of all health cadres, including medical schools;
- Include TB prevention, diagnosis and treatment in national HIV strategic plans. TB strategic plans needed to include HIV prevention, treatment and care services;
- Whenever feasible take up TB services and provide HIV prevention and treatment, including antiretroviral therapy, for HIV-infected TB patients;
- Emphasize the implementation of isoniazid preventive therapy for early HIV infection through focusing mainly on HIV counselling and testing centres, where clients were likely to have early HIV, and when it was easier to screen for TB. Likewise, TB screening should be strengthened in all service delivery areas, such as outpatients departments and antiretroviral therapy programmes, to increase early detection and treatment of TB;
- Use pilot and demonstration projects for national scale-up of collaborative TB/HIV activi-





ties. However, the pilot projects needed to be scaled up with speed once their effectiveness is demonstrated:

- Prioritize, in all countries, the crucial activity of HIV surveillance among TB patients. WHO-recommended guidelines should be applied and used for conducting the surveillance;
- Define clear and time-bound national targets for implementation of collaborative TB/HIV activities;
- Mainstream TB prevention, diagnosis and treatment services into existing PMTCT services in HIV-prevalent settings. Discussion between PMTCT and TB policymakers and service providers at global and national levels was essential.

Civil society, including nongovernmental organizations

- In the case of nongovernmental organizations working on HIV and AIDS, include provision of TB prevention, diagnosis and treatment services as their core function, and actively engage in the national and local response to TB/HIV in the countries in which they were working;
- In the case of global and national advocates, activists and civil society organizations, press for inclusive formulation of TB/HIV targets, and be aware of them when holding governments and institutions accountable for their achievements;
- Develop clear messages at country level to mobilize all stakeholders, including community groups and patients, in an unprecedented scale-up of implementation and resource mobilization:
- Extract primary messages from the key milestones and planned achievements of the Strategic Plan of the Working Group (2006–2015) to inform civil society decision-makers on what needed to be achieved and on what was needed from civil society.

Other related events: Summary

TB/HIV SATELLITE SYMPOSIUM

The symposium was held on the afternoon of 13 August 2006 and was attended by about 400 participants. The International AIDS Society and the Forum for Collaborative HIV Research co-organized the symposium with the Stop TB and HIV Departments of WHO. The symposium was chaired by Dr Kevin De Cock, Director of the HIV Department of WHO, and Dr Helene Gayle, the outgoing Chair of the International AIDS Society. The keynote address was given by Stephen Lewis, the United Nations Secretary-General's Special Envoy for HIV/AIDS in Africa. The symposium highlighted the importance of TB prevention, diagnosis and treatment as a care issue for people living with HIV through sharing experiences and strategies that worked, demonstrated the potential role of TB control programmes in scaling up HIV prevention, treatment and care services, and shared the priorities and the recent advances in research on TB/HIV issues.

XVI INTERNATIONAL AIDS CONFERENCE

During the Conference there was greater support than at any previous Conference for inclusion of TB in the service delivery, policy and advocacy response to HIV. TB/HIV was addressed in an abstract session, a non-abstract session, posters, late breaker sessions, and in passing references in several highvisibility presentations and talks, such as the speech by ex-president of the United States Bill Clinton, Dr De Cock's plenary talk, and the rapporteur sessions, particularly the clinical research, treatment and care section. The late breaker plenary presentation on MDR/XDR stimulated considerable reaction, including media coverage. Results, an advocacy organization based in Washington, D.C., United States, organized two sessions on TB/HIV advocacy, which encouraged a high level of discussion. The Stop TB Department of WHO also organized a skills building workshop on the use of a simple questionnaire to screen people living with HIV/AIDS for TB.



Acknowledgements

OVERALL ORGANIZATION OF THE MEETING

Haileyesus Getahun (WHO), with contributions from Mamadou Diallo (International AIDS Society), Carole Francis (WHO), Charlie Gilks (WHO), Cate Hankins (UNAIDS), Veronica Miller (Forum for Collaborative HIV Research), Paul Nunn (WHO), Fabio Scano (WHO) and Javid Syed (Treatment Action Group).

ADMINISTRATIVE AND SECRETARIAL SUPPORT

Lynne Harrop supported by Leslie Angeles and Rosaline Edma.

CHARIPERSONS, PRESENTERS AND MODERATORS

Slim Abdool-Karim, Richard Chaisson, Kevin De Cock, Gerry Friedland, Haileyesus Getahun, Peter Godfrey-Faussett, Mark Harrington, Michel Kazatchkine, Jim Kim, Rick O'Brien, Elizabeth Madraa, Neil Martinson, Bess Miller, Paul Nunn, Kwame Shanaube, Soumya Swaminathan and Isabelle De Zoysa.

RAPPORTEURS

Lisa Nelson, David Cohn, A. Reid, Jeroen van Gorkom, Alwyn Mwinga and Michael Kimerling.

PHOTOS BY Lynne Harrop and Glen Thomas

WRITTEN BY Haileyesus Getahun.



WHO/HTM/TB/2007.382

© World Health Organization 2007

All rights reserved.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either express or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use.

This publication does not necessarily represent the decisions or the stated policy of the World Health Organization.