Public Private Mix for HIV/TB Co-Infection: feasible models of co-ordination in Hyderabad City, India

Public Private Mix (PPM), the coordination of health care across Centre for Health Research and Development, India, recognised the growing need to tackle TB/HIV co-infection and joined with a partner NGO to pilot PPM for TB and HIV in Hyderabad city. The research was conducted in consultation with local programme managers in a TB unit of Hyderabad city, building on a public sector-initiated PPM-TB as well as available HIV and TB testing centres. Researchers developed a PPM-TB/HIV referral and feedback, whilst training public and private sector stakeholders to use these tools and participate in the trial.

following up with the private practitioners and the provision of prompt feedback could positively influence the referral practices of those who were not previously referring TB/HIV suspects to the national programme. It also showed that systematic documentation of referrals and feedback could enable the public sector-run TB programme to trace and reach patients. Research public sector initiated PPM-TB were more likely to refer suspects for TB and HIV testing and to refer on average, more suspects than those not part of the PPM-TB. This observed trend could be a lead for initiating further studies and guidelines for PPM for managing HIV and HIV/TB co-infection in other sites.

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"There is emerging evidence regarding" the role of the private sector in HIV the National AIDS Control Programme private sectors to manage HIV, there have been no documented reports on working models of public-private mix for HIV and TB together. This study was the first initiative in this direction.



Understanding Barriers to Health Care: insights from Mumbai, India

Patients who report extreme delays in accessing TB care through the Revised National TB Control Programme (RNTCP) in Mumbai represent quantitative outliers on the range of delays experienced while seeking TB treatment (from consulting a provider to diagnosis and treatment initiation). However, their profiles provide valuable insight into the persistent barriers that prevent access to the programme by the most vulnerable.

In recognition that the urban poor may have different problems that limit their access to Directly Observed Therapy, Shortcourse (DOTS), researchers at MAAS-CHRD worked with the RNTCP in Mumbai to conduct a baseline study as part of the Global Fund-supported Urban DOTS Project (UDP). The study piloted the use of an accessible data source - patients registered with the programme who are at the higher extreme of the delay indicators - as a proxy for identifying access barriers. The success of the study demonstrates that this approach can be carried out easily by the local programme for periodically assessing the reach and impact of their interventions.

A total of 617 patients registered under the RNTCP were interviewed using a semi-structured interview schedule. The study found that patients experiencing extreme delays more commonly reported a per capita income of less than IUSD per day, were more likely to be women and less educated and often failed to perceive their symptoms as serious. Many respondents reported a longer duration of treatment before reaching the programme and had incurred higher treatment costs, some reporting factors beyond their control as resulting in delays (e.g. floods, work or family pressures). Delays were also caused by programmatic requirements for DOTS (e.g. proof of address and patient guarantor).

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Policy and Practice - join the debate The Converging Impact of

Tuberculosis, HIV/AIDS and Food Insecurity

Ginny Bond, TARGETS Researcher, ZAMBART

Delia Boccia, TARGETS Researcher

The TARGETS RPC is formed by seven partner organisations:

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IFAKARA HEALTH INSTITUTE



Abhay Kudale, TARGETS Researcher, MAAS-CHRD

TARGETS researchers Ginny Bond (ZAMBART) and Delia Boccia (LSHTM) carried out research into the links between TB and poverty, contributing findings to a study by RENEWAL (Regional Network on HIV/AIDS, Rural Livelihoods and Food Security) on TB and food security. A full policy brief based on research by Ginny Bond et al entitled 'The Converging Impact of Tuberculosis, AIDS, and Food Insecurity in Zambia and South Africa' is available through the International Food Policy Research Institute (IFPRI), www.ifpri.org/renewal. Research on the socioeconomic determinants of TB infection by Delia Boccia et al is published in the American Journal of Hygiene and Tropical Medicine: Boccia D, Hargreaves J, Ayles H, Fielding K, Simwinga M, Godfrey-Faussett P. AJTMH 80 (6); 2009: 1004-1011.











TARGETING TUBERCULOSIS



TARGETS Team for Applied Research Generating Effective Tools and Strategies for Communicable Disease Control

TARGETING TUBERCULOSIS

"Our purpose is to develop new knowledge, tools and approaches for more effective communicable disease control, leading to better health for the poor and vulnerable. Our focus is on the world's 'killer diseases' and on overcoming the barriers to effective control of these diseases an essential step towards achieving the Millennium Development Goals"

TB Treatment in Tanzania: effective strategies under programmatic conditions

Members of the TARGETS Consortium at the KNCV Tuberculosis capacity with the National TB and Leprosy Programme of Tanzania adherence to a 6-month treatment regime is required to avoid the development of drug resistance and conventional Directly Observed Therapy Shortcourse (DOTS) at the health facility is not feasible for this extended period of time. With input from local and international collaborators, TARGETS researchers helped design a strategy in which patients could choose the location of their daily treatment observation (home or health facility), and –

The study demonstrated that DOTS can be transferred from and health-care providers, contributing to the empowerment of patients with no detrimental effect on the formal treatment outcomes. Furthermore, research demonstrated that the strategy could be implemented without a change in the organizational set-up of the NTLP, fitting in well with routine programmatic activities. The

DOTS-Plus: field-testing effective and affordable tools for the control of drug resistant TB in Kampala, Uganda

Members of the TARGETS Consortium joined a collaborative programme of research to investigate the emergence and control of MDR-TB in Mulago Clinic, Kampala, the referral TB clinic for the Ugandan National TB and Leprosy Control Programme (NTLP). The model DOTS-Plus programme included enhanced clinical care, for example a nutritional program for hospitalized patients and their families. This was found to improve the outcome of patients on the TB ward, both directly through better nutrition and indirectly by increasing compliance with TB treatment.

The capacity of the TB laboratory was increased and testing for resistance to 2nd line TB drugs was introduced. Researchers evaluated a number of methods for rapid detection of drug resistance, comparing for accuracy, turnaround time and cost. Direct testing of sputum for resistance to rifampicin and isoniazid was implemented using a liquid culture system. Resistance to anti-tuberculosis drugs was found high in re-treatment cases with a quarter (24.5%) having resistance to isoniazid and 12.7% (52/409) having MDR-TB. Resistance to second-line drugs was low.

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New Jersey Medical School (UMDNJ), USA: http://njms.umdnj.edu/ Joint Clinical Research Center (JCRC), Uganda: www.jcrc.co.ug Case Western Reserve University, USA: www.case.edu London School of Hygiene and Tropical Medicine, UK: www.lshtm.ac.uk



Policy and Practice - join the debate

Point-of-Care Diagnostics: communities need reliable, rapid and low-cost tests to tackle TB

This is an extract from a contribution by TARGETS researcher Ruth McNerney to the Guardian Katine Chronicles blog, 21st April 2009. To read more go to www.guardian.co.uk/katine

TB Control: the ZAMSTAR Study

The Zambia AIDS-Related TB Project (ZAMBART) is the TARGETS Consortium partner in Zambia, currently in the final phase of a major programme in partnership with Stellenbosch University, South Africa. The ZAMSTAR study is a community randomised trial of two interventions: improved case finding and combined TB/HIV activities at household level.

From November 2009 to October 2010, 80,000 sputum Zambia as part of the ZAMSTAR TB Prevalence Survey, which will accurately measure the effectiveness of the interventions the study has been executing over the past three years. Rapid delivery of sputum specimens to a central laboratory is difficult in Zambia, due to great distances worked with stakeholders including the Zambian Ministry of Health, to develop a decentralized approach by placing four 100 sputum specimens per day, close to the study sites.

The laboratories, constructed within 40-foot shipping containers, are delivered by truck from South Africa to existing a power generator, is divided into three sections: specimen receiving, vestibule, specimen processing and culture. After the official opening of the first ZamLab CTL in Lusaka in

study, the labs will be handed over to the Ministry of Health for further TB research in the country.

"We are confident that containerized laboratories will be a useful tool for performing large-scale TB underdeveloped transportation

Barry Kosloff, ZAMSTAR Mini-Lab Project Manager, ZAMBART

