"PAHO's Pilot TB Program: Framework of TB Control in Large Cities"

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PAHO/WHO





The Americas

Content

- TB control achievements and challenges in the Americas

- TB control in cities - PAHO's initiative

The Americas – Millennium Development Goals

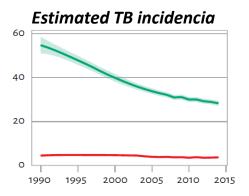
Achieved before 2015

Objective 6:

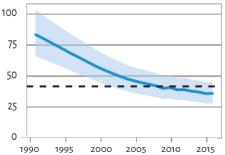
- Objective 6c: To halt and reverse the incidence of TB
- Indicator 6.9: Incidence, prevalence and death rates associated with TB

Partially achieved in 2015

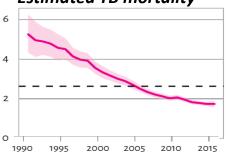
 Indicator 6.10: Proportion of TB cases detected and cured under DOTS











In 2014

65,000 TB patients were not diagnosed or notified

17,000 TB patients die for this cause

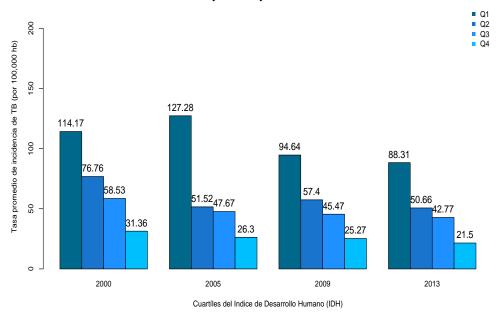
75% of the 2013 cohort of TB new patients were treated successfully

54% of MDR-TB cases were diagnosed

These figures reflect problems of health care access and quality
Solution: "Universal Health Coverage Strategy"

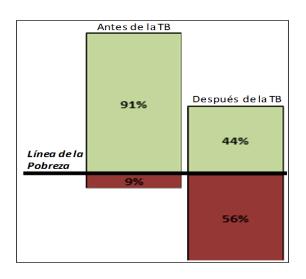
Inequality and poverty

Gradients of inequality in TB incidence rate by quartiles of countries grouped according to HDI. The Americas: 2000, 2005, 2009, and 2013



TB inequality didn't change over time......

% of TB patients above and below the poverty line. Dominican Republic**



^{**} Mauch, R. Melgen, B. Marcelino, I. Acosta, E. Klinkenberg y P. Suarez, «Tuberculosis patients in the Dominican Republic face severe direct and indirect costs and need social protection,» Rev Panam Salud Publica, vol. 33, nº 5, p. 332–9, 2013.

Epidemiological transition:

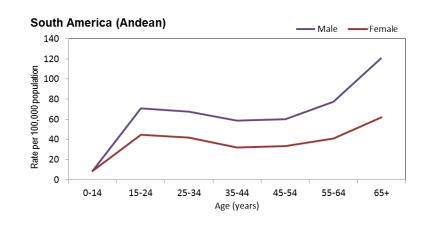
↑ of non transmissible diseases:

diabetes mellitus, alcoholism, drug addictions, smoking

MEXICO 2015		
Comorbidities	% of TB cases	
HIV infection	6.3%	
Alcoholism	4.8%	
Diabetes	23.2%	
Under nutrition	9.7%	

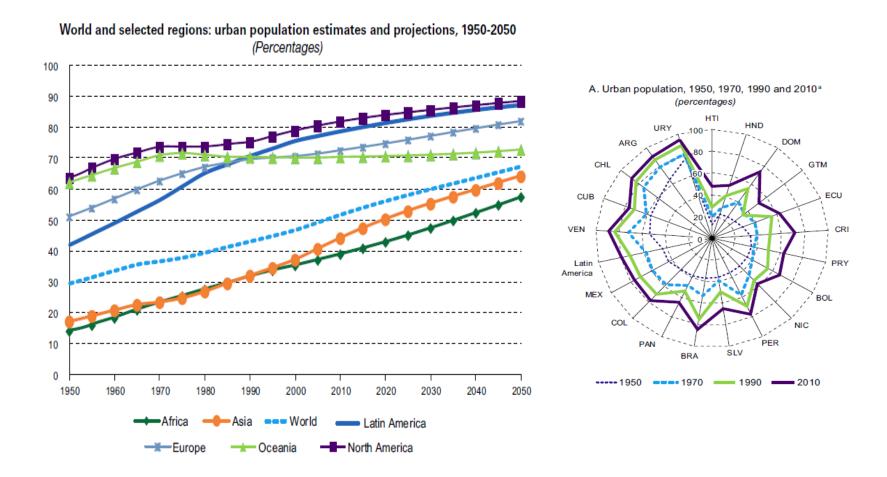
The demographic changes

- Aging population
- Increased rate of migration
- Rapid urbanization





South- South migration is ↑
• 57% (4 million)



Source: United Nations, World Urbanization Prospects: The 2011 Revision [online] http://esa.un.org/unup/, 2012 and Latin American and Caribbean Demographic Centre (CELADE)-Population Division of ECLAC, population estimates and projections, 2013 revision.

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Rapid Urbanization

- Economic activity is concentrated in the cities (60-80% of GDP)
- Relative incidence of urban poverty is \downarrow but the absolute number of poor, is increasing (2012, 127 million were poor).
- One out of every four urban dwellers is poor.
- 27% of the population lives in slums (117 million people).
- Cities of LAC are the most violent and inequitable in the world.
- The accelerated growth of slums:
 - invasion of agricultural and areas geographically unsuitable for human settlement
 - environmental and ecological changes that cause greater vulnerability to natural disasters and environmental pollution
- The provision of drinking water, sewerage, and electricity in LAC, don't cover all the poor population in cities.



TB and urbanization

Lima – Callao Metropolis PERU		
% of the total population:	31%	
% of the total TB cases notified:	59%	
% of the total MDR-TB cases notified:	82%	



Montevideo URUGUAY		
% of the total population:	38%	
% of the total TB cases notified:	60%	
% of the total MDR-TB cases notified:	90%	



The Americas – Response 2013 ...to now

Main barriers to TB control in large cities

- 1. Fragmentation and multiplicity of health providers: (i) public sector providers health ministries; (ii) services dependent on municipalities; (iii) social security providers; (iv) providers in the prison-justice or defense ministries; (v) not-for-profit health-care providers; and (vi) for-profit health-care providers.
- **2. Multiple health authorities:** health services that respond hierarchically to different authorities (ministry of health, social security institute, municipality, state government, etc.).
- **3.** Lack of comprehensive health services: marginalized populations are vulnerable to TB, diabetes mellitus (DM), HIV infection, malnutrition, obesity, alcoholism, illegal drug use.....
- **4. Diverse patient populations:** different ethnic (racial, religious, and linguistic) populations that have their own beliefs, habits, and customs.
- **5. Poverty and marginalization:** limited access to health care (TB diagnosis and treatment). Homeless, indigenous people, illegal immigrants, afro-descends, poor peoples can suffer discrimination.
- 6. The lack of an intersectoral approach to improving basic living and health conditions: people living in slums should have access to water, sanitation, and electricity, etc., safe and healthy housing and living environments, and health services..
- 7. Violence in large cities of LAC: secondary to the social pathologies that lead slum populations to crime, drug addiction, and alcoholism..

The Americas – Response 2013 ...to now

FRAMEWORK FOR TUBERCULOSIS CONTROL IN LARGE CITIES OF LATIN AMERICA AND THE CARIBBEAN

- Strengthen political commitment at the national and local levels, and coordinate the different health authorities.
- 2. Conduct **epidemiological mapping of the TB situation** in cities and identify at-risk populations.
- 3. Survey and map the health system and existing health-care providers.
- **4.** Adapt health care to the needs of the populations at risk.
- Take an interprogrammatic approach to TB control to guarantee comprehensive patient care.
- Take an intersectoral approach to TB control and include TB in social protection programs.
- 7. Promote civil society engagement in TB prevention and control activities.
- 8. Establish a routine monitoring and evaluation system.

Steps for the implementation of the Framework

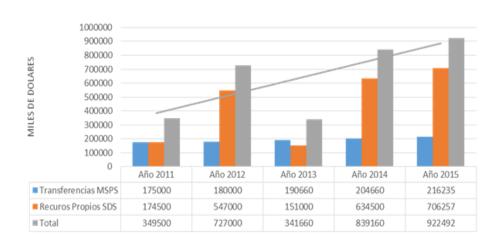
- 1. Set up a Committee for TB control in the selected city of intervention.
- 2. Conduct a situation analysis to:
 - a. identify health authorities working in the city,
 - b. determine the TB situation (epidemiological mapping) to identify the intervention areas,
 - c. identify of at-risk populations,
 - d. map the health system and different health-care providers,
 - e. identify **the needs** of the populations at risk and the opportunities for **inter- programatic** work,
 - f. analyze the **plans** of the different sectors and **social protection programs**.
 - g. map the community organizations and determine how to involve them,
- 3. Introduce TB in the intersectoral committees
- 4. Develop and implement a **Work Plan for TB** control in the city

1. Strengthen **political commitment** at the national and local levels, and coordinate the different health authorities.

Financial resources in US dollars

Bogota DC

2011 - 2015



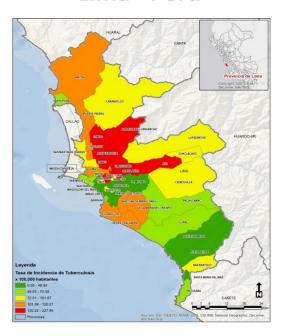
«PLAN PARA LA REDUCCIÓN DE LA TUBERCULOSIS EN EL DISTRITO DE SAN JUAN DE LURIGANCHO, LIMA 2013 – 2016»



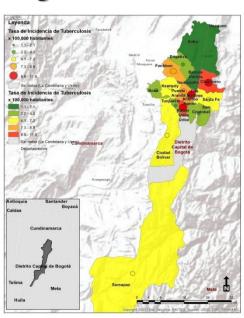


2. Conduct **epidemiological mapping of the TB situation** in cities and identify atrisk populations.

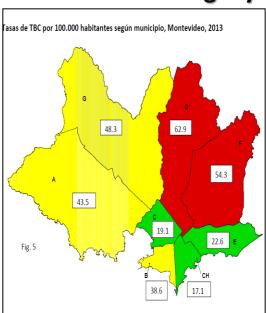
Lima - Perú



Bogotá - Colombia

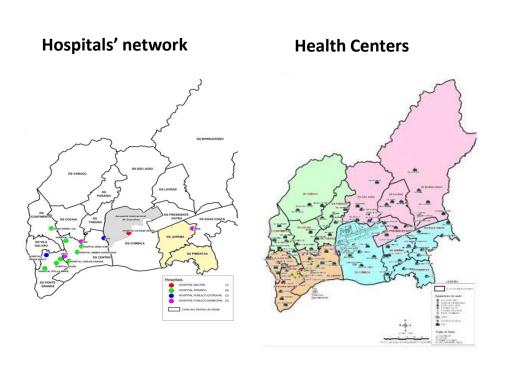


Montevideo - Uruguay



3. Survey and map the health system and existing health-care providers.

Guarulhos-Brazil



Health System Structure -Guaruhlos

2004	2015
64 Health Centers	70 Health Centers
8 Health Centers were treating TB	All Health Centers were treating TB



3. Survey and map the health system and existing health-care providers.

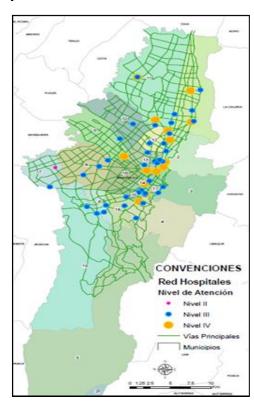
Lima - Perú



160 144 140 Boticas 120 Dentist 100 Healers 80 ■ Private medicine Pharmacies 50 60 ■ Alternative drugs shops 37 40 26 _20 19 20 Veterinary 17 20 0 Microred Ganímedes Microred El Agustino

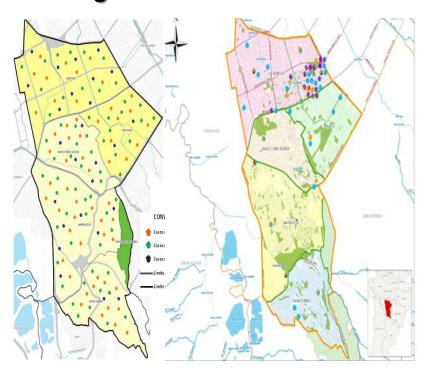
Bogota- Colombia

Hospitals' network

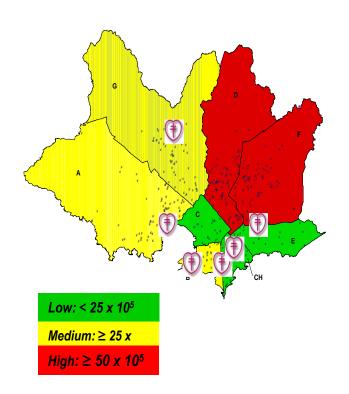


4. Adapt health care to the needs of the populations at risk.

Bogotá - Colombia



Montevideo - Uruguay



5. Take an **interprogrammatic approach to TB** control to guarantee comprehensive patient care.

COLOMBIA

CAMAD Centers of Health Care for Substance Abuse and Alcohol Abuse people.

Active TB detection among these people.



MEXICO

Integrated care of TB and Diabetes Mellitus.



6. Take an **intersectoral approach** to TB control and include **TB in social protection programs.**



MULTISECTORAL COMMITTEE - El Agostino

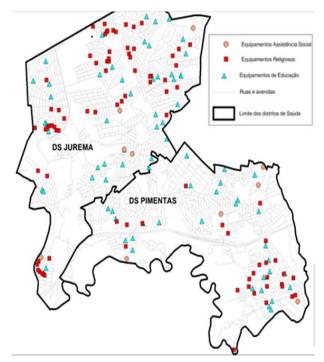


MULTISECTORAL COMMITTEE - SJ de Lurigancho

7. Promote civil society engagement in TB prevention and control activities.

LIMA - PERU







ASPAT-Perú (ex-patients Association Lima) International Prix "Kochon de TB" 2015



8. Establish a routine monitoring and evaluation system.

GUARULHOS - BRAZIL

Set up Committees of TB Mortality:

To investigate all TB deaths, To evaluate the quality of care, Improve coordination with other institutions

BOGOTA - COLOMBIA

2013

2012



LOCALIDADES

2013:TB web – 37 deats notified SIM– 67 deats notified

TB control in cities – Lessons learned so far

- 1. TB control in cities is now an important part in the agenda of the Ministry of Health and of the local governments,
- 2. The intersectoral work in TB control is an essential aspect in the plans of TB control in cities,
- 3. The initiative has been owned by national and local governments of the 8 counties of the Region and it has now expanded to other cities in pilot countries like Colombia,
- 4. The initiative could contribute to eliminate the TB catastrophic costs in cities,
- 5. Community involvement facilitates the implementation of the initiative and gives it more ownership.

Vision

A WORLD FREE OF TB

