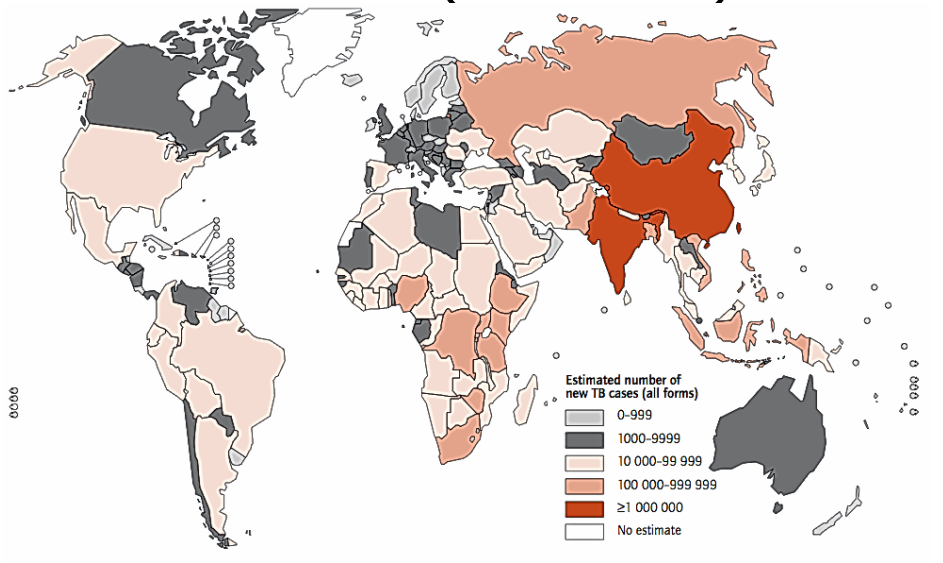


MANAGEMENT FOR IMPROVEMENT OF
TUBERCULOSIS CLINIC CURE RATE IN
REGIONAL HOSPITAL, THAILAND.
14 Oct 2009, Phitsanulok.

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Estimated number of new TB cases
all forms (WHO 2007)



Thailand Tuberculosis

Population (x 1,000)	63,884	with HIV
TB Incidence new case per year	91	15
TB all form per 100,000	142	
All form Case per 100,000	192	12
Deaths per year	21	3.9
Death per 1000,000 pop/yr	15	6
MDR new TB cases %	1.7	
MDR previously treated TB case	35	

Tuberculosis prevalence

- Tuberculosis prevalence estimated 13.7 million (WHO 2007)
- Asia and Africa had the highest TB Regions.
- Thailand was one of the high incidence countries (18 th of 22)

Success = Complete + Cure

- Cure rate of TB clinic in a regional hospital, at lower northern part of Thailand was 60% in 2005 fiscal year.
- Complete = 6 Month Rx
- Cure = Complete + Neg Acid Fast Bacilli
- Success = Complete + Cure
- Failure, Default, Died

Pod Somboon Clinic



What is the best prevention ?

- Prevention is better than cure.
- What is the best prevention for Tuberculosis ?
- Cure is the best prevention.

Pod Somboon Clinic

- To improve cure rate of tuberculosis clinic in a regional hospital.
- In practice we call “ปอดสมบูรณ์คลินิก”
- ปอด (Pod) = Lungs, Pulmonary
- สมบูรณ์ (Somboon) = Perfect, Complete, No defect

Methods

- An action research was performed by established "Pod Somboon Clinic" as a local name instead of the official name "Tuberculosis Clinic".
- Treatment compliance improved by increasing consultation time to 5 days a week by a nurse practitioner who was trained from Thai Ministry of Public Health.
- The medical doctor consulting time was half day a week as a part of the Rx program.

Access, Drugs supply

- The clinic was located at the corner of the building easy to access.
- Practice area open air without air-condition.
- TB Drugs were free of charge, supplied from the Center of Disease Control Region 9 (Thai MoPH).

Sputum Direct Smear

- First day = Spot sputum specimen,
- Next day = Collected (Morning) + Spot
- Sputum were collected from separated room.
- Acid Fast Stain with laboratory quality control (by MoPH)
- Chest X-ray less specific in TB diagnosis MDR TB, Non-TB

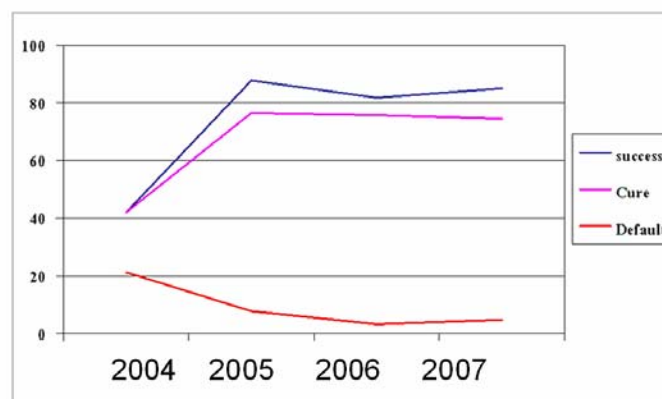
RX, Pharmacy Unit

- Consultation room and pharmacy unit were at the same site which dispensed TB drugs as "one day packages" for easy use.
- 2009 Combine Drugs Regimen as single tablet a day.

Results:

- Cure rate increased from 60 % in 2005 to 84% in 2007 (Fiscal year).
- Success rate by cohort analysis from 1 Jan 2008-31 Mar 2008 was 85.1%.
- The clinic was got "Best TB Clinic of the Year Award" from Center of Disease Control Region 9 for 3 consecutive years

Success rate by cohort analysis at the end of Rx (Jan - Mar 2008) = 85.1%



Pro & Con

- Name of the TB clinic is "Pod Somboon" a positive meaning name.
- Open air environment easy to access location.
- The same person 5 days a week available, as an active nurse practitioner with communication, consultation and counseling skills.
- Competent physician for TB diagnosis and drugs adverse effects (Medical Doctor Specialist) half day a week. (phone consultation available)
- Reporting, Disease Surveillance.
- RX Guideline "Tuberculosis Training Module" Thai (MoPH)
- Drugs free of charge, Social Support
- DOTS strategy (by health care worker at primary care unit or family)

Opportunities for "CQI"

- Died 7 % (Elderly patient, HIV and TB)
- Community Health Volunteers and Health Workers can not find him / her at home 7%
- Balance confidential and community concern about control of TB spreading.
- TB culture / sensitivity solid / liquid media for detection of MDR or Non TB for diagnosis and success of treatment
- TB DNA fingerprint ...

Case Finding Activities

- HIV screening program for TB
- TB screen for HIV
- Prisoner, Diabetes, COPD, Steroid Rx.

Thank You

Home