

## Tuberculosis (Consumption)

### Tuberculosis Basics

**PATHOGEN:** Mycobacterium tuberculosis  
**TRANSMISSION:** Airborne, # 1 Infectious Disease of Significance to CDC  
**DISEASE:** Mostly lung infection  
**TREATMENT:** Antibiotics  
**ANNUAL DEATHS WORLDWIDE: OVER 2 MILLION**

### Stats

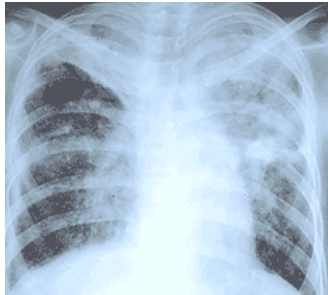
1. Someone in the world is newly infected with TB every second.
2. Nearly 1% of the world's population is newly infected with TB each year.
3. Overall, one third of the world's population is currently infected with the TB bacillus.
4. 5-10% of people who are infected with TB (but who are not infected with HIV) become sick or infectious at some time during their life.

### Diagnosis & Treatment

**Diagnosis:** Culture of sputum  
**Treatment:** Antibiotics, maybe 6 months: isoniazid (INH), rifampin, pyrazinamide, ethambutol, streptomycin. May become Multidrug-resistant (MDR).  
**Prevention:** Vaccine, BGG  
**World Health Organization:** Started DOTS in 1991  
**DOTS- "Directly Observed Therapy"**

### Xray of TB Infected Man

Chest Xray of Man With TB.  
The whited out areas are where the infection is occurring.



### California <http://www.dhs.cahwnet.gov/ps/dcdc/TBCB/tubindex.htm>

BY COUNTY  
<http://www.dhs.cahwnet.gov/ps/dcdc/TBCB/TB%20Rports/adober%20acrobat/Tables%2013.pdf>

#### Reported TB Cases by State United States, 1996 and 1997

State	1996	1997	Change in Cases	% Change
New York	2,588	2,265	-323	-12.5
California	4,313	4,056	-257	-6.0
Texas	2,103	1,992	-111	-5.3
Florida	1,417	1,400	-17	-1.2
Illinois	1,060	974	-86	-8.1
All Others	9,856	9,164	-692	-7.0
Total	21,337	19,851	-1,486	-7.0

CDC

### Early 1800s

Tonic, oils, snake oils and sales people from wagons often sold bogus products in the early 1800s for all ailments. Many of these products had cocaine, and other drugs in them, and I'm sure the patients "felt" very well after taking these products.



Dr. Kilmer's  
 More...

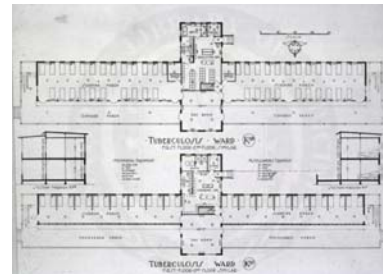


1862  
 TB was believed to be due to women not cleaning the house. See the children in the background looking at their brave mother fighting TB at the same time.



### Blueprint of old TB sanitarium.

TB patients used to be quarantined to hospitals called sanitariums.



Consumption  
 Early 1900s  
 Health education  
 campaign

TB used to be called consumption.



### Consumptive mother & kids Early 1900s



Indian Health Service Chest Xrays  
 Field Nurse- Navajo



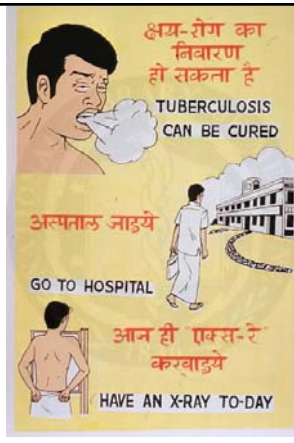
Chest Xray Boy 1950s?

Where did he get those pants?



### Culture and Health Education

Health education programs always target a specific group or culture.



### Culture 2



### Culture 3 MOBILIZING THE HOME FRONT for protection of civilian health is part of our HOME DEFENSE :

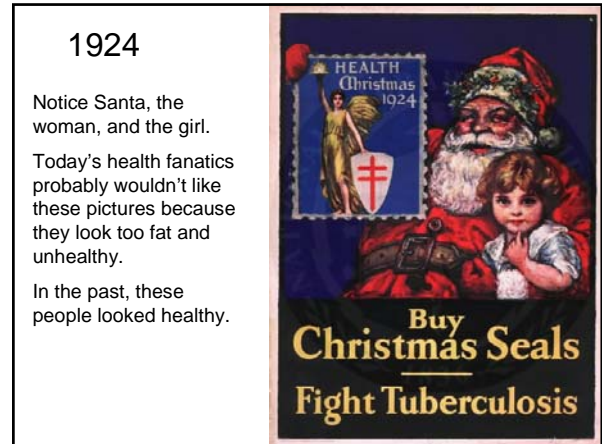


### Christmas Seal (Red Cross)

Dad, the man of the house, fighting back TB while helpless women and children look on. Nurse back then were not even ashamed or offended to wear their nursing cap.

Any comments?

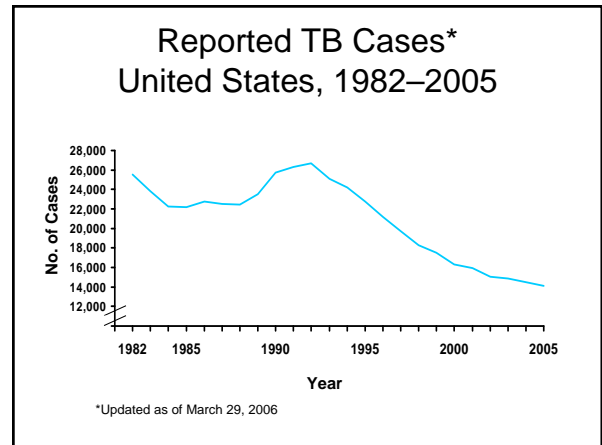




Tuberculosis in the United States

National Surveillance System  
 Highlights from 2005

Division of Tuberculosis Elimination  
 Centers for Disease Control and Prevention



**TB Morbidity  
 United States, 2000–2005**

Year	Cases	Rate*
2000	16,309	5.8
2001	15,946	5.6
2002	15,056	5.2
2003	14,840	5.1
2004	14,515	4.9
2005	14,097	4.8

\*Cases per 100,000, updated as of March 29, 2006.

