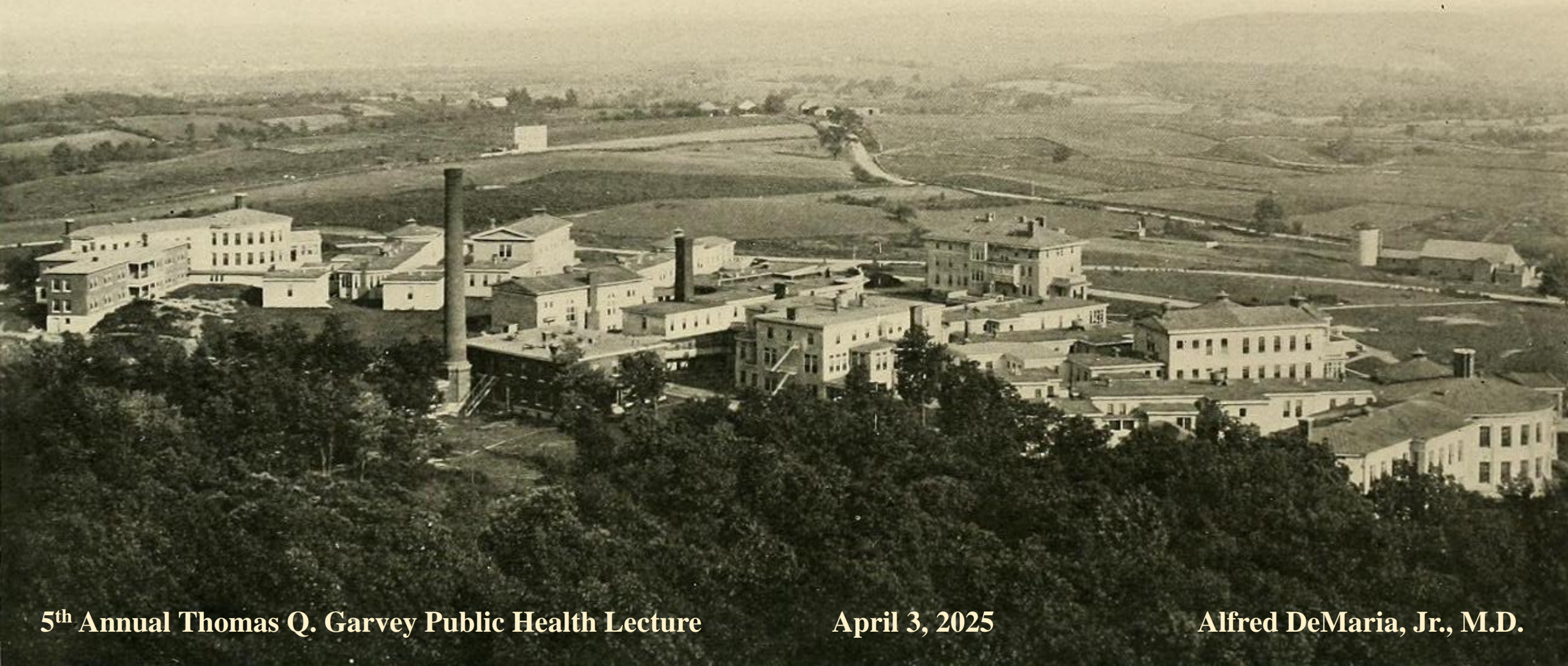


# Thomas Quincy Garvey, IV, J.D., M.D.



# **The History of TB in Massachusetts and the Lessons it Provides for the Present**



**5<sup>th</sup> Annual Thomas Q. Garvey Public Health Lecture**

**April 3, 2025**

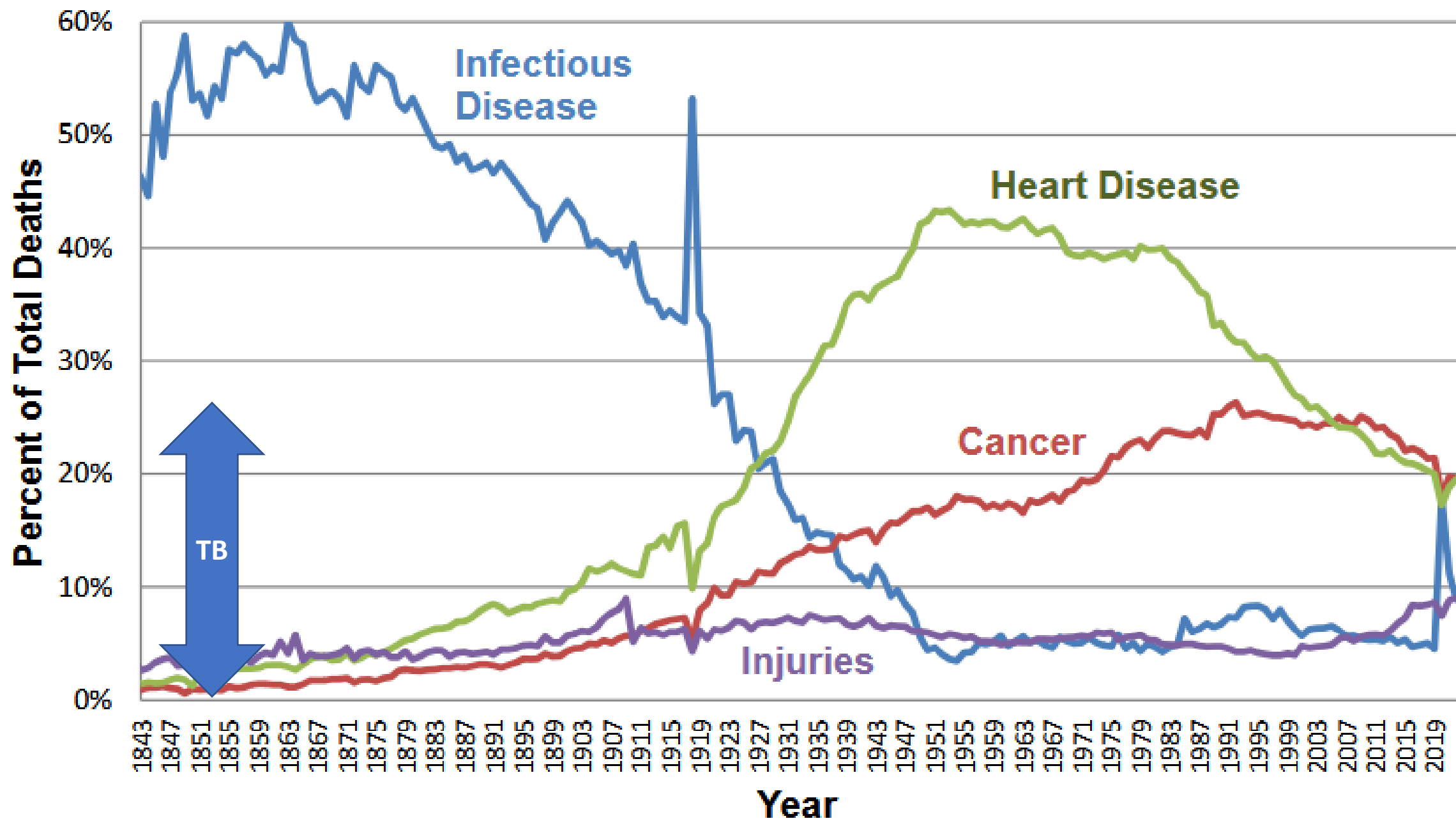
**Alfred DeMaria, Jr., M.D.**

# Disclosures

❖ **I am not an historian**

❖ **I am an ID generalist**

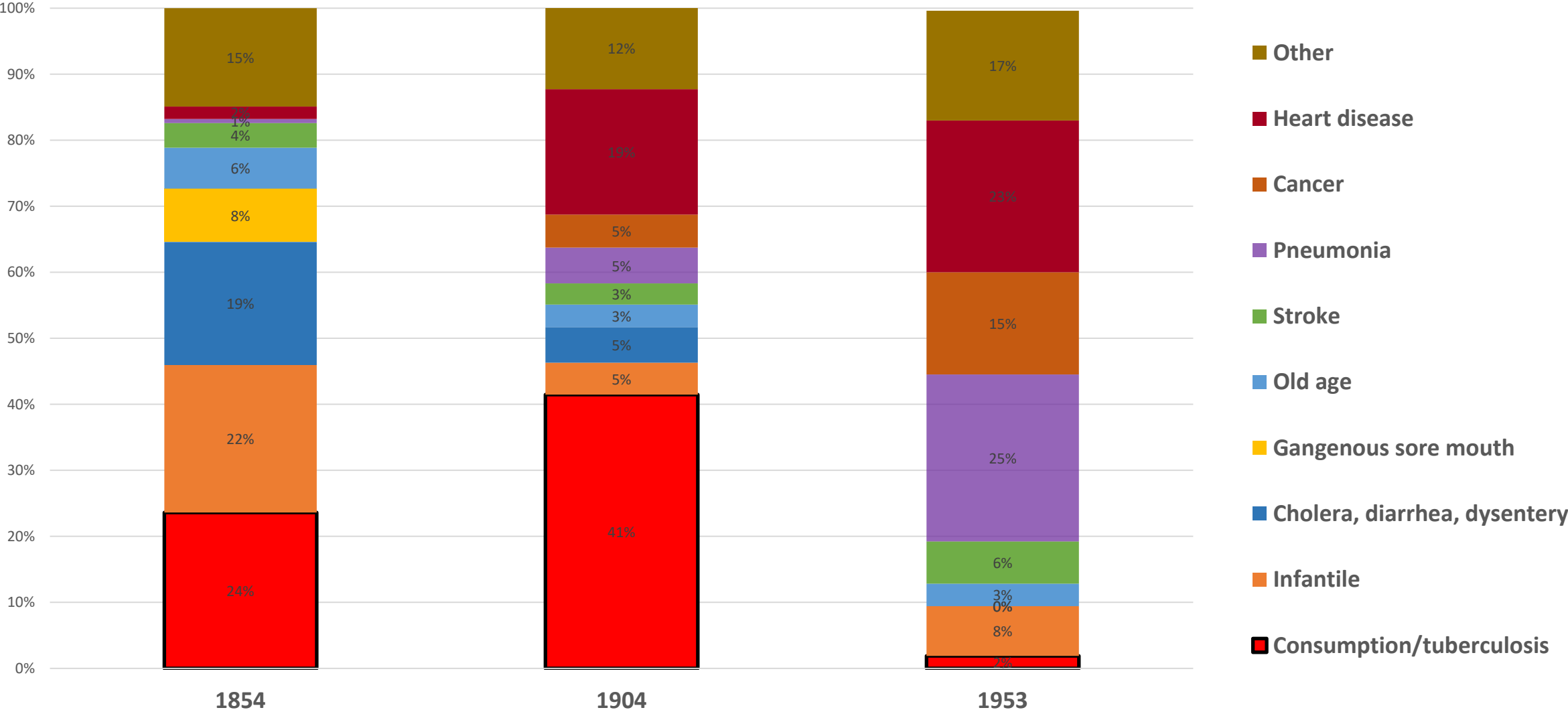
❖ **No relevant financial disclosures**





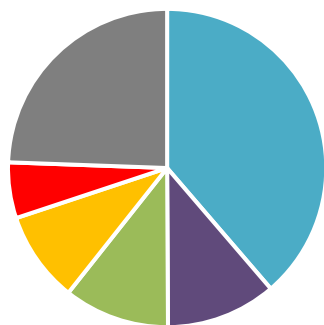


# Reported Cause of Death Among Patients at Tewksbury Hospital in Three Representative Years



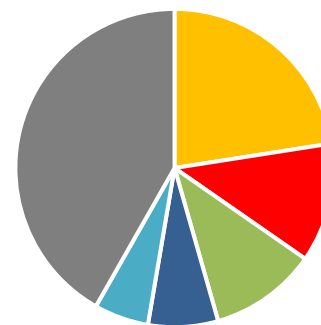
# Causes of Death in Children (N=3,175) at Tewksbury Hospital, 1854 through 1905, Among all Deaths Recorded (N=13,352)

Age Less Than 1 Year (N=2,346)



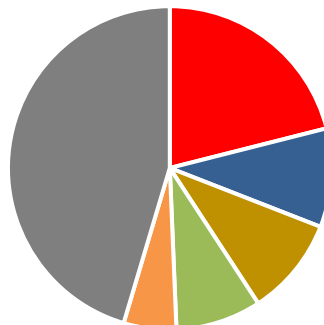
■ Debility ■ Syphilis ■ Diarrhea ■ Malnutrition ■ Tuberculosis ■ Other

Age 1 to 4 Years (N=577)



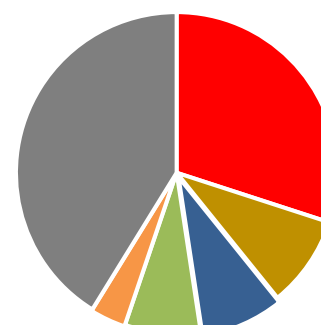
■ Malnutrition ■ Tuberculosis ■ Diarrhea ■ Pneumonia ■ Debility ■ Other

Age 5 to 14 Years (N=152)



■ Tuberculosis ■ Pneumonia ■ Epilepsy ■ Diarrhea ■ Strep Infection ■ Other

Age 15 to 17 Years (N=250)



■ Tuberculosis ■ Epilepsy ■ Pneumonia ■ Diarrhea ■ Strep Infection ■ Other



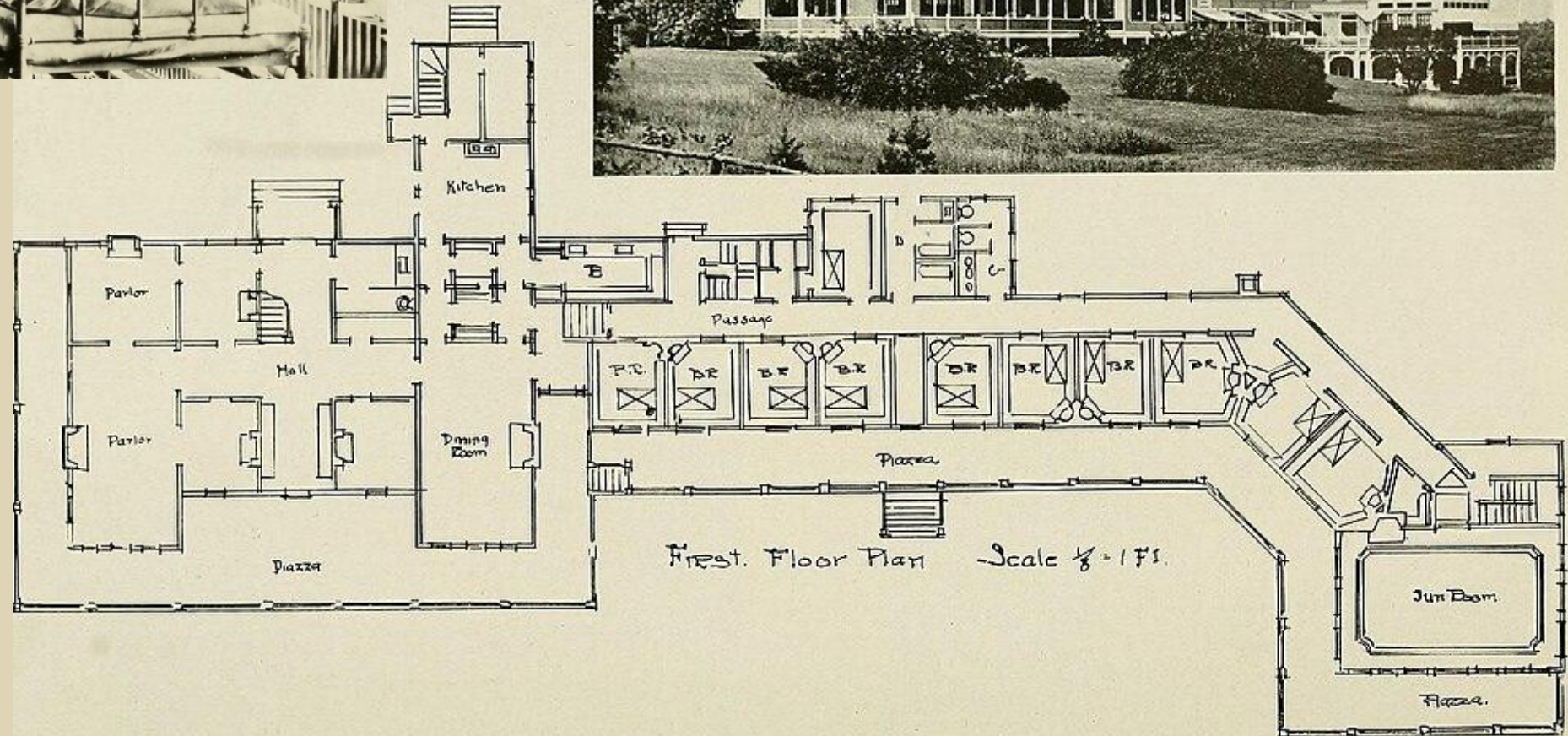
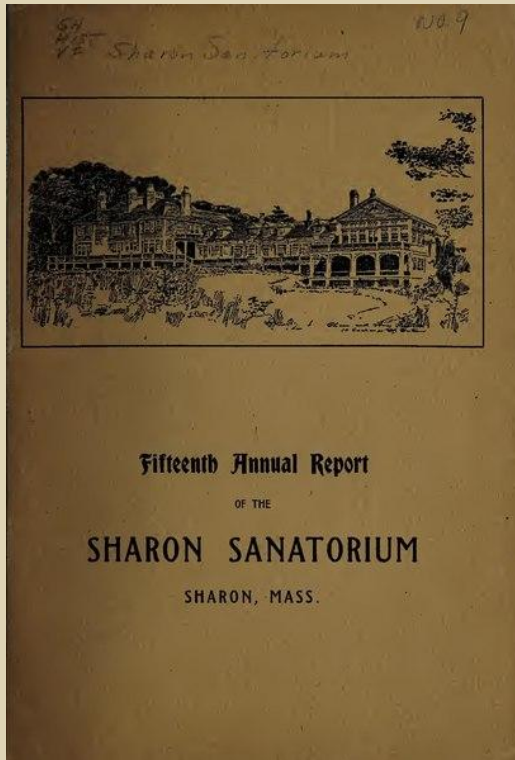
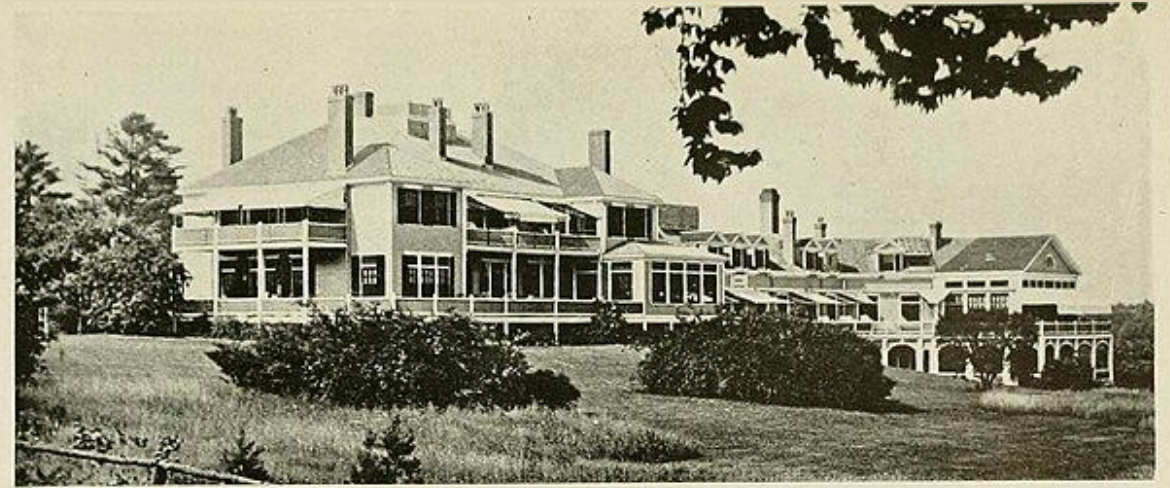
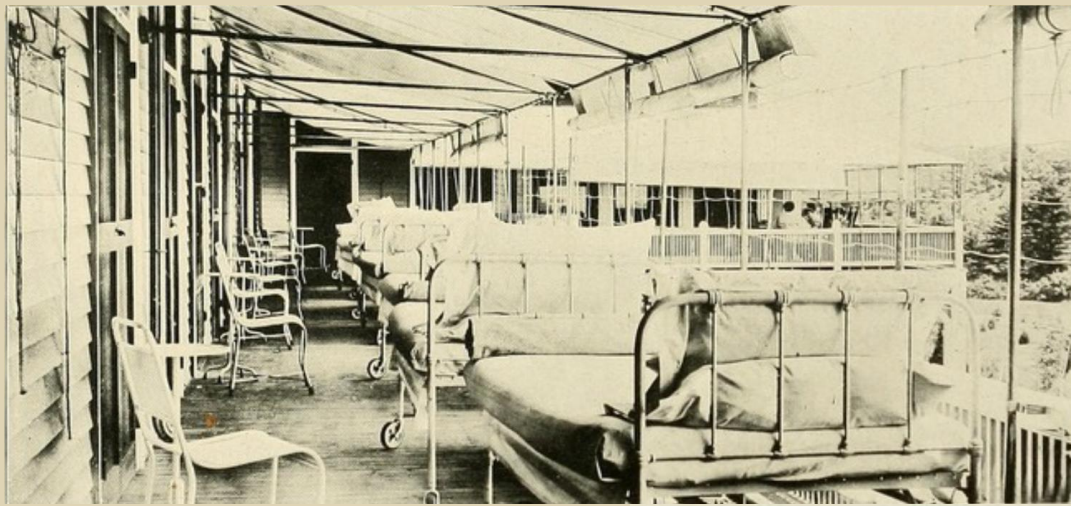




The Brehmer Sanatorium at Goerbersdorf.

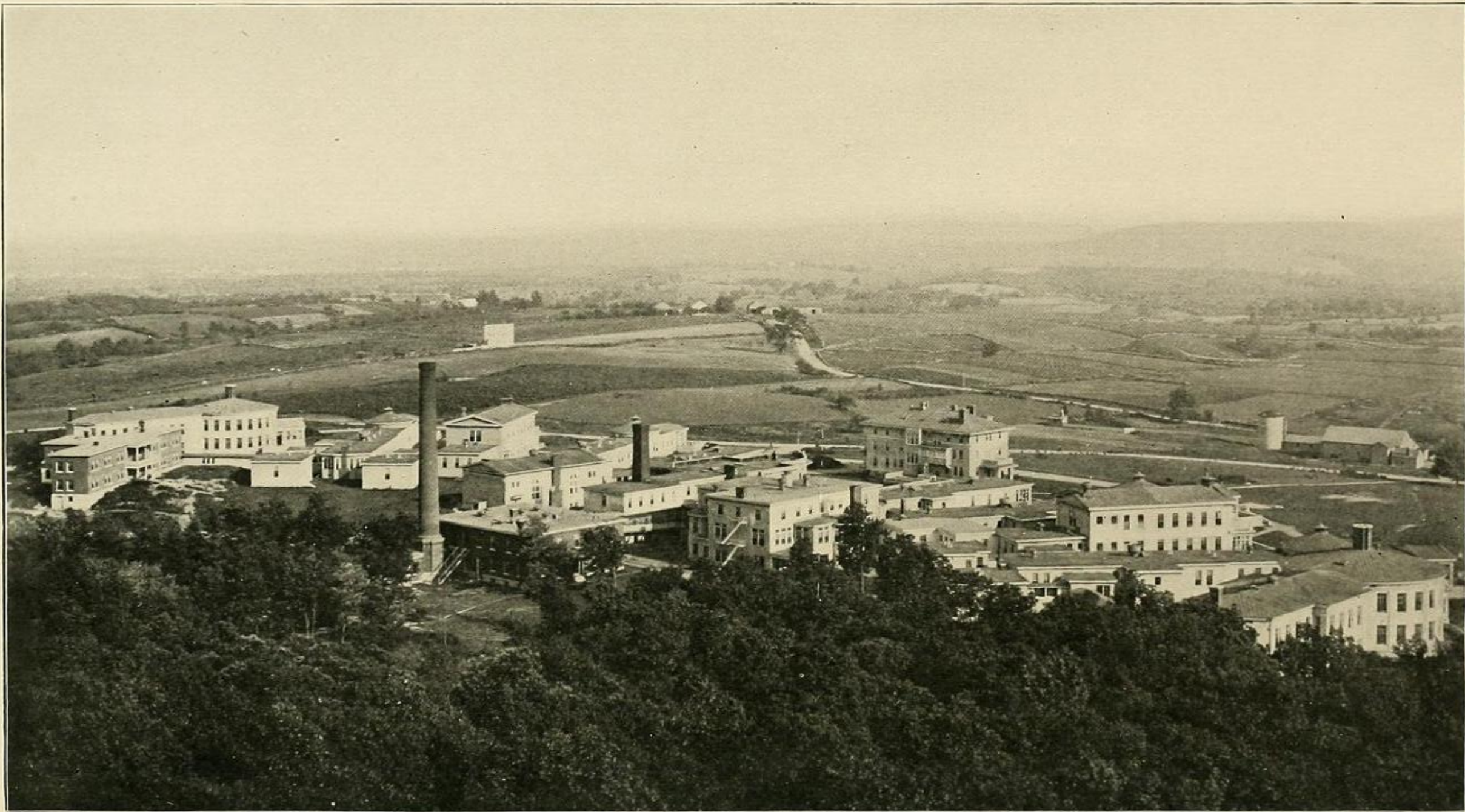






No. 34.—Sharon Sanatorium, Sharon, Mass. DESIGNED BY DR. VINCENT Y. BOWDITCH. CAPACITY, 23 PATIENTS. ESTIMATED COST, \$40,000.





STATE SANATORIUM AT RUTLAND.

Massachusetts. Committee for the 6<sup>th</sup> International Congress on Tuberculosis, Washington, 1908.





# **First Annual Report Massachusetts Hospital for Consumptives and Tubercular Patients**

**“It was deemed necessary that the place selected should have an altitude of at least one thousand feet above the sea should be situated on a southerly slope, and protected by wood lands on the north; that it should have a dry soil ; be capable of good drainage; be so situated that not less than two hundred acres of land could be secured; and should have an unlimited supply of pure water, to be obtained either from the public water supply of the locality or by a complete system of its own. A further requirement was that the location should possess reasonably convenient means of communication by railroad,....”**



# MASSACHUSETTS STATE SANATORIUM

MS. A. 9. 2. 25. 9



Ward "G"



Interior of a men's ward (For 30 patients)

All the pavilions for patients are one-story buildings except two wards "G" and "H" which are two-story

Each of the wards for patients extends toward the south and terminates in a solarium and piazza where the patients take the treatment



Taking the treatment



Taking the treatment

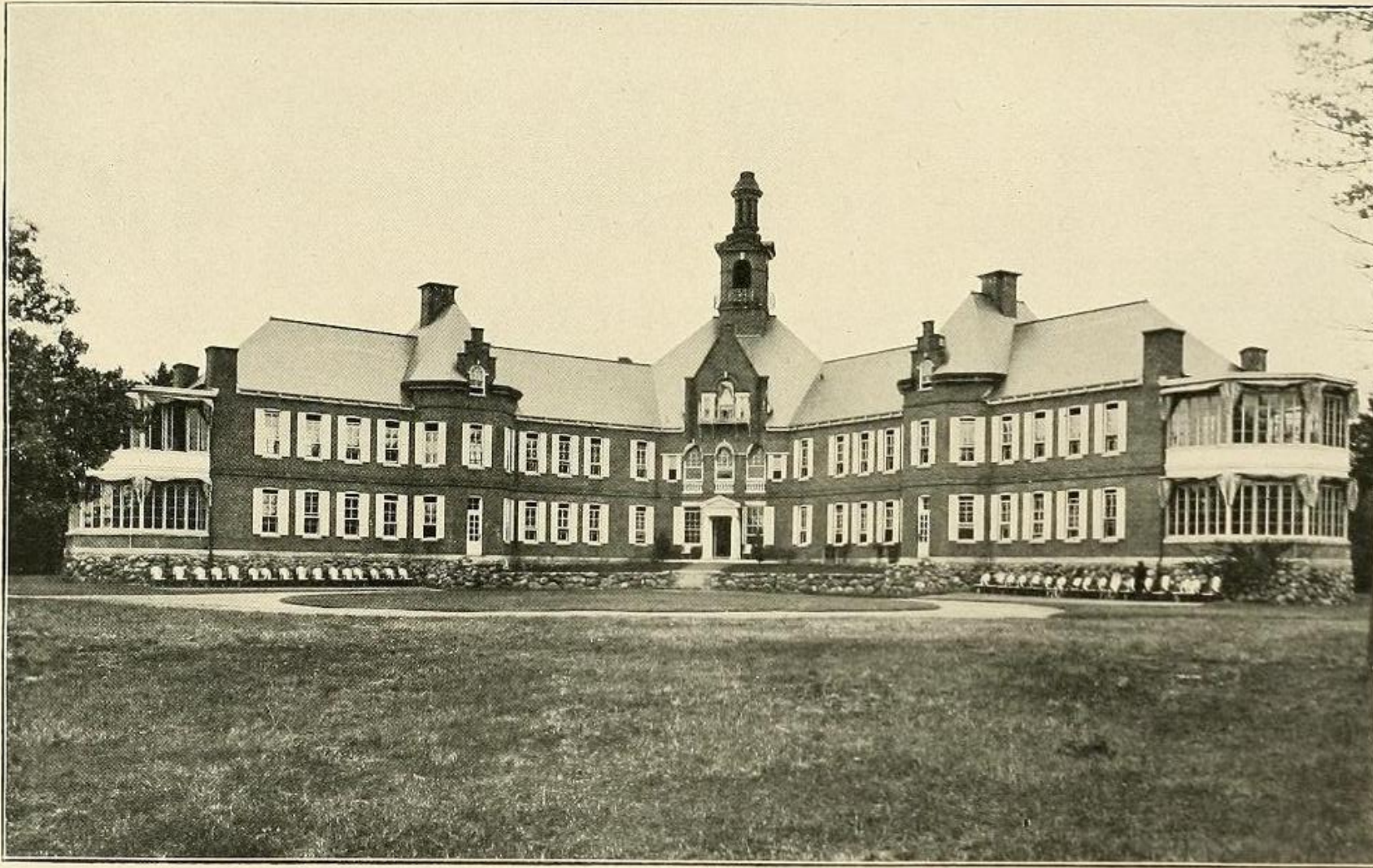
## Results at Rutland State Sanatorium for the First Three Years

### Comparison of Percentages in the First, Second and Third Years.

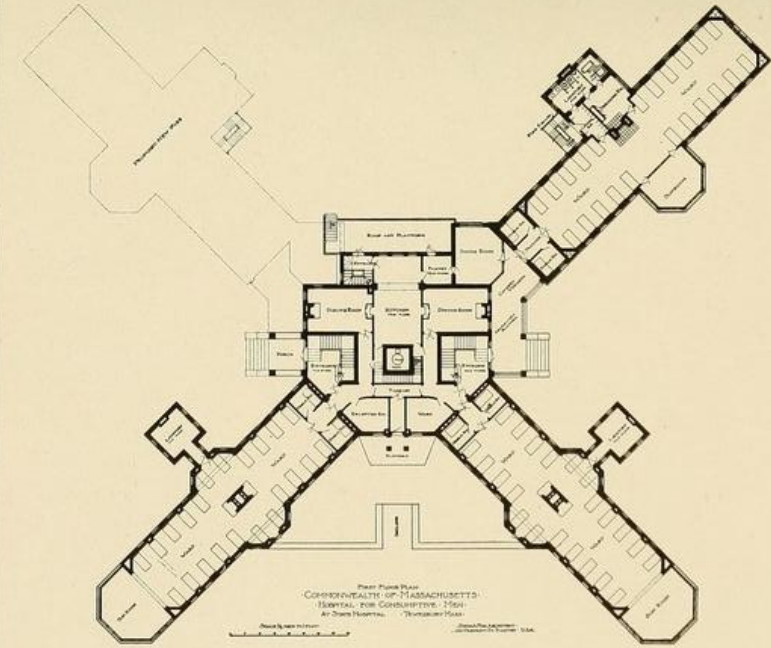
	1895-99.	1899-1900.	1900-1901.
Number of "arrested" cases, . . . .	30.97	39.7	42.23
Number of all classes of "improved" cases,	46.10	52.4	53.79
Number of "not improved" cases, . . .	21.23	7.9	3.98



**Tewksbury Hospital**  
**Bancroft Male Tuberculosis Hospital**  
**Opened in **September 1900****  
**Camp (below) added in 1904**

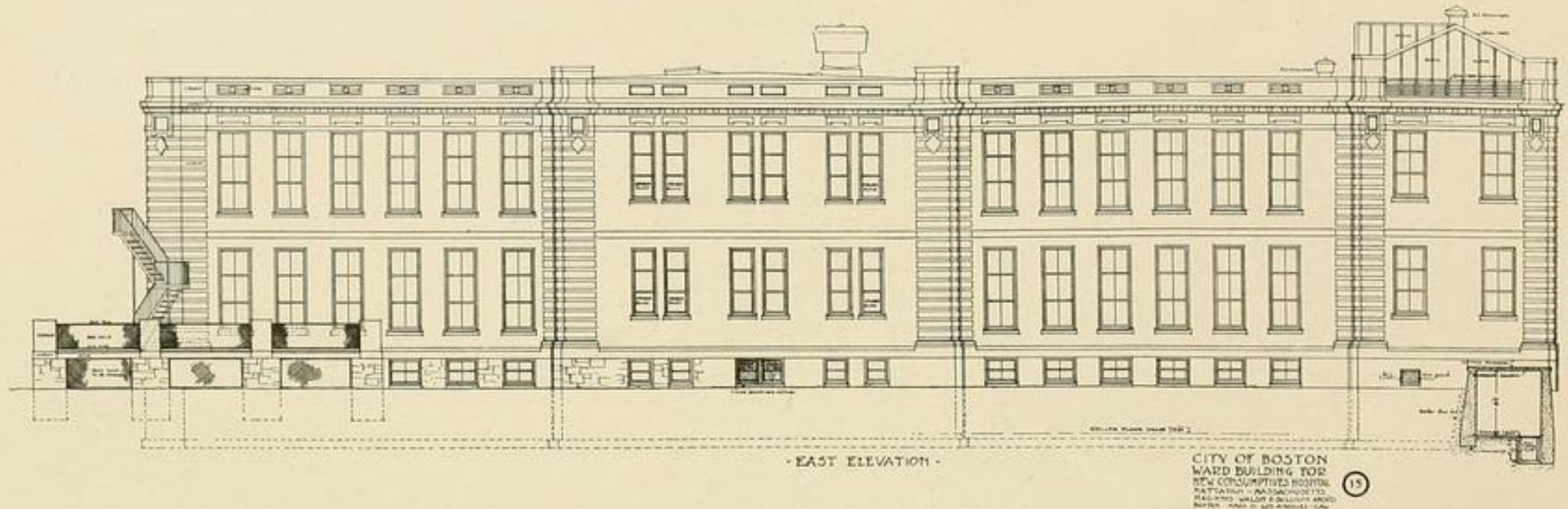


STATE HOSPITAL AT TEWKSBURY.—Hospital for Consumptives.

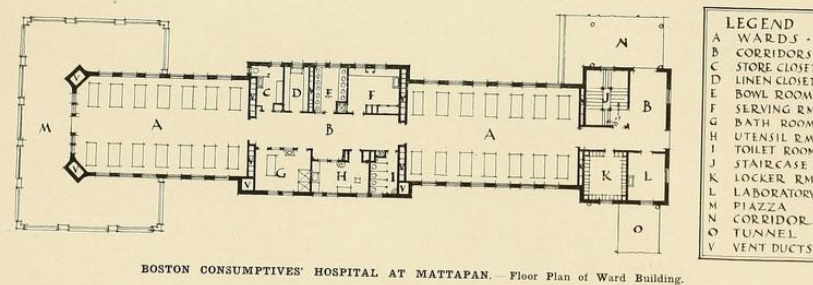








BOSTON CONSUMPTIVES' HOSPITAL AT MATTAPAN. — Elevation Plan of Ward Building.





# Free Home for Consumptives



428 QUINCY STREET, DORCHESTER, MASS.

Free Home for poor Consumptives of every age, stage, nationality, creed and color; no pay patients admitted.  
Its charity extends to all sections of the world as many of the Countries', States', Cities' and  
Towns' born citizens number among its former and present inmates'



# The Cause of Tuberculosis



On March 24, 1882, Robert Koch announced the tuberculosis bacillus to be the cause of tuberculosis (consumption)



1882



# Time Between Announcement of a Major Advance and Implementation of a “Public” Response in Massachusetts

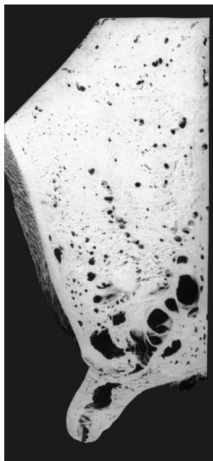
Publication	Public Response	Time to Implementation
<b>1798</b> <b>Jenner publishes on vaccination</b>	<b>1800</b> <b>Vaccination takes place in Boston</b>	<b>2 years</b>
	<b>1809</b> <b>Law requiring vaccination passed</b>	<b>11 years</b>
<b>1892-93</b> <b>Von Behring publishes on diphtheria antiserum</b>	<b>1894</b> <b>Massachusetts opens biologics laboratory to make antiserum for distribution</b>	<b>1-2 years</b>
<b>1882</b> <b>Koch announces the infectious etiology of tuberculosis</b>	<b>1898</b> <b>Massachusetts opens the Massachusetts Hospital for Consumptives and Tubercular Patients</b>	<b>16 years</b>
	<b>1907</b> <b>Tuberculosis reportable</b>	<b>25 years</b>

**“In spite of a growing belief among advanced thinkers that tuberculosis was communicable, it took the world by surprise when the announcement was definitely made that the tubercle bacillus was the effective cause. The incontrovertible fact had little immediate effect in relation to treatment. It was difficult for the existing generation to interpret its bearings.”**

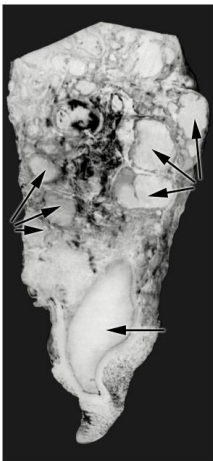
**R. W. Philip, International Congress on Tuberculosis at Washington, D. C., 1908.**



PARTS OF HEALTHY & TUBERCULOUS UDDERS



HEALTHY UDDER



TUBERCULOUS UDDER



# INFECTIOUSNESS OF MILK

RESULT OF INVESTIGATIONS MADE FOR THE  
TRUSTEES OF THE MASSACHUSETTS  
SOCIETY FOR PROMOTING  
AGRICULTURE



BOSTON  
Published by the Society  
1895

## AN ACT TO RESTRICT THE USE OF TUBERCULIN.

Chap.276

Be it enacted, etc., as follows:

Section fourteen of chapter four hundred and ninety-six of the acts of the year eighteen hundred and ninety-five is hereby amended by striking out in the first and second lines, the words "eighteen hundred and ninety-six", and inserting in place thereof the words:—eighteen hundred and ninety-seven,—so that the section as amended will read as follows:—*Section 14.* Until June first eighteen hundred and ninety-seven the use of tuberculin as a diagnostic agent for the detection of the disease known as tuberculosis in domestic animals shall be restricted to cattle brought into the Commonwealth from any point without its limits, and to all cattle held in quarantine at Brighton, Watertown and Somerville: *provided, however,* that tuberculin may be used as such diagnostic agent on any animal or animals in any other portion of the state upon the consent in writing of the owner or person in possession thereof, and upon any animals condemned as tuberculous upon physical examination by a competent veterinarian.

1895, 496, § 14,  
amended.

Use of tuberculin restricted.

Proviso.

Approved April 13, 1896.

## AN ACT TO RESTRICT THE USE OF TUBERCULIN.

Chap.165

Be it enacted, etc., as follows:

Section fourteen of chapter four hundred and ninety-six of the acts of the year eighteen hundred and ninety-five, as amended by chapter two hundred and seventy-six of the acts of the year eighteen hundred and ninety-six, is hereby amended by striking out in the first and second lines, the words "until June first eighteen hundred and ninety-seven", and by striking out in the sixth and seventh lines, the words "held in quarantine",—so as to read as follows:—*Section 14.* The use of tuberculin as a diagnostic agent for the detection of the disease known as tuberculosis in domestic animals shall be restricted to cattle brought into the Commonwealth from any point without its limits, and to all cattle at Brighton, Watertown and Somerville: *provided, however,* that tuberculin may be used as such diagnostic agent on any animal or animals in any other portion of the state upon the consent in writing of the owner or person in possession thereof, and upon any animals condemned as tuberculous upon physical examination by a competent veterinarian.

1895, 496, § 14,  
etc., amended.

Use of tuberculin restricted.

Proviso.

Approved March 17, 1897.



Report of the Committee Appointed by the Suffolk District Medical Society to Investigate the Progress of the Crusade against Tuberculosis in the City of Boston  
Boston Med Surg J 1905;153:683-689

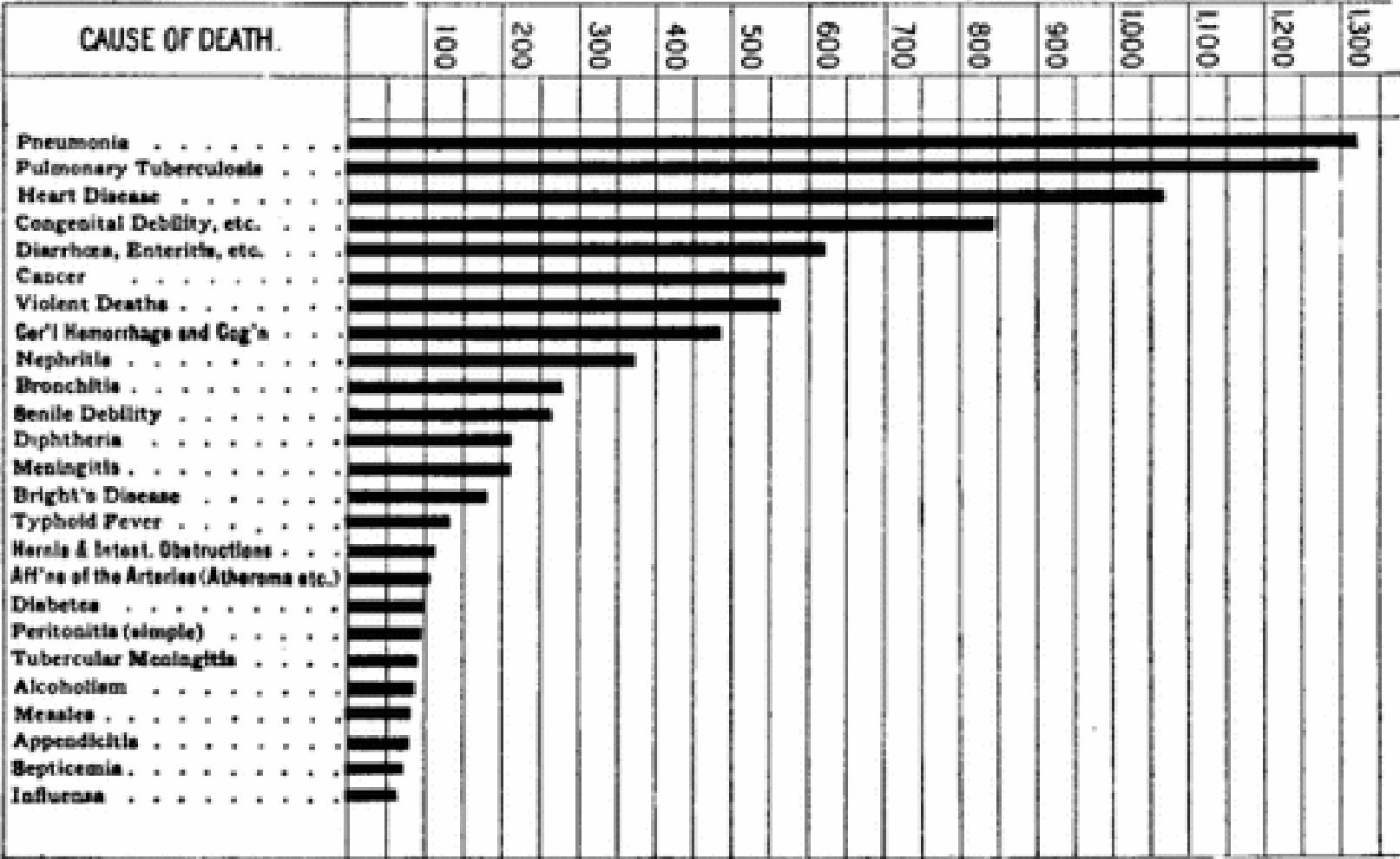
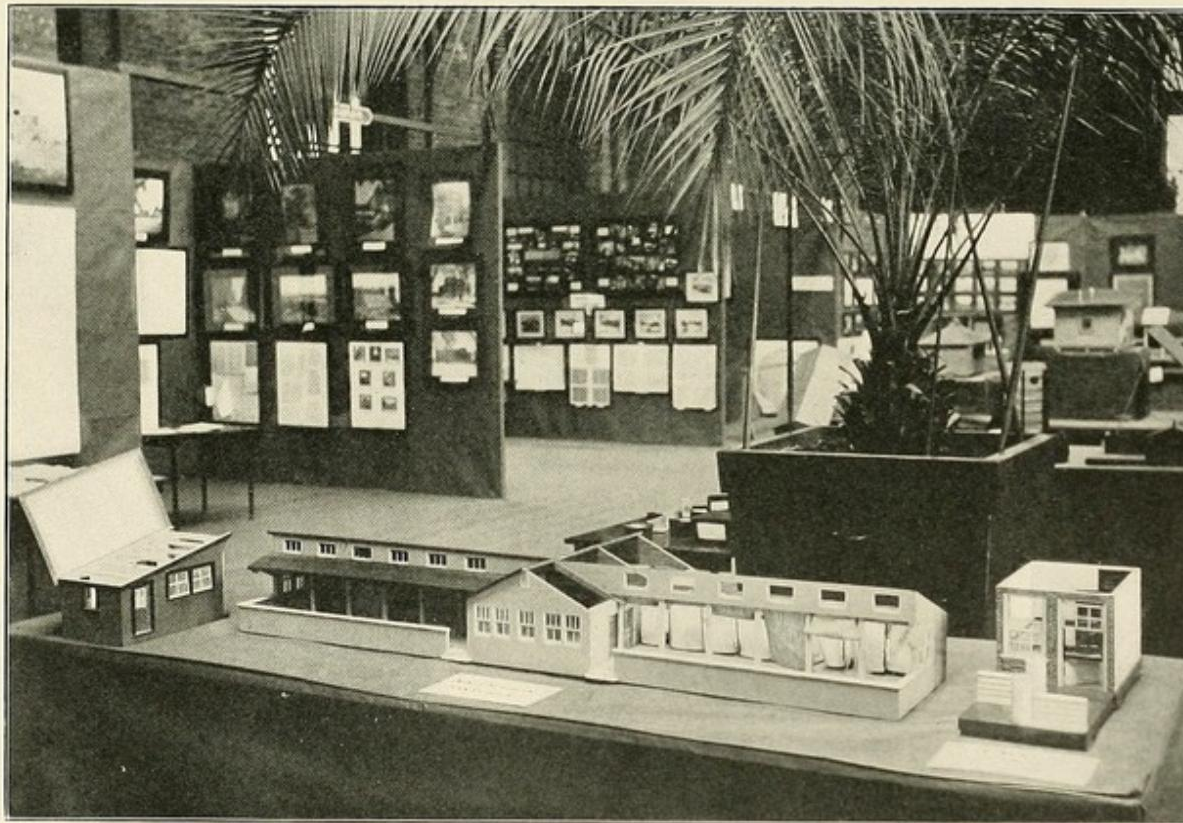


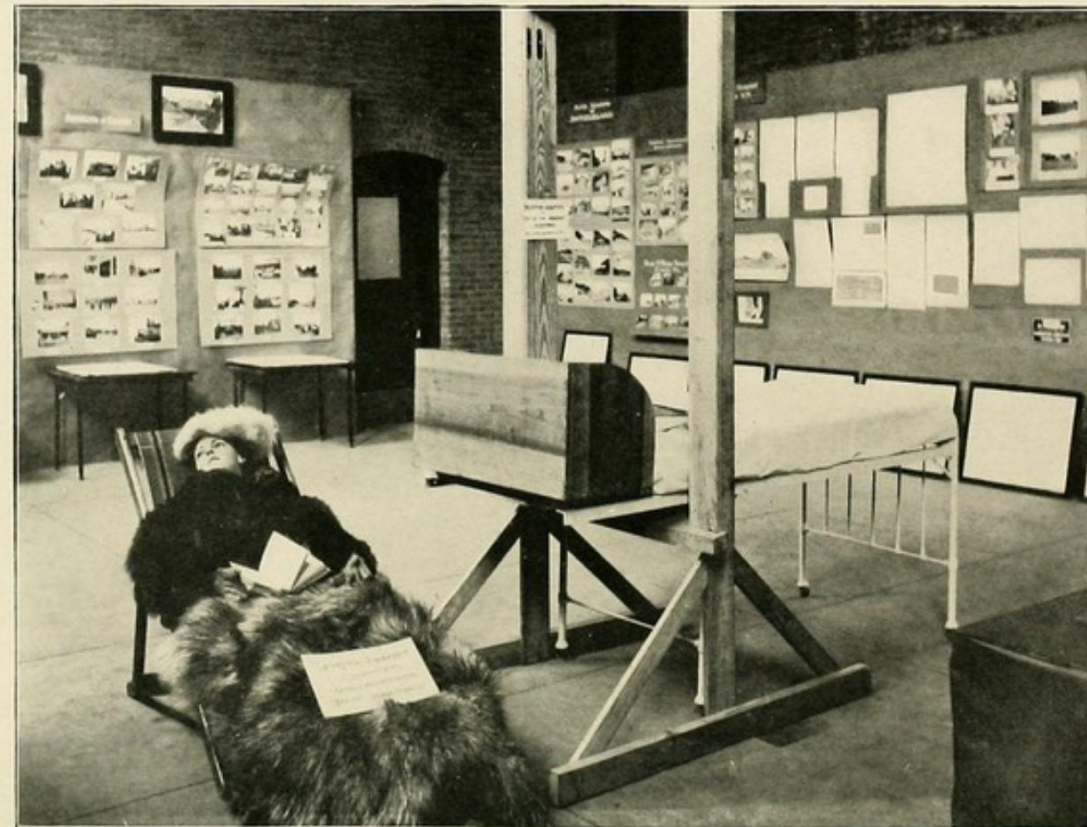
CHART 1. — Comparative view of twenty-five of the principal causes of death in Boston during the year 1904.  
(From the Annual Report of the Boston Health Department.)

# **Mobilization Against Tuberculosis in Massachusetts**

- ❖ **Massachusetts Medical Society Districts form Associations for the Relief and Control of Tuberculosis**
  - ❖ **Boston, Cambridge, Springfield and Worcester in 1905**
  - ❖ **1906-07 associations in other cities**
- ❖ **TB exhibition in Horticultural Hall, 12/05-1/06, 26,000 attend**
- ❖ **Governor's Commission 1906**
  1. **Reporting of cases and perfecting registration system**
  2. **Thorough application of disinfections, no spitting**
  3. **Formation of anti-TB associations at the local level**
  4. **Hospitals for advanced cases**
- ❖ **Ch.165, Acts of 1906, prohibition of expectoration; creation of three hospitals**
- ❖ **Day camps for TB cases in the community**
  - ❖ **Massachusetts Federation of Women's Clubs**



TUBERCULOSIS EXHIBIT OF THE BOSTON ASSOCIATION.



TUBERCULOSIS EXHIBIT OF THE BOSTON ASSOCIATION.



**North Reading State Sanatorium**  
Study and Prevention of Tuberculosis by Thomas Spees Carrington, 1911

# **Activities of the Associations for the Relief and Control of Tuberculosis**

- 1. Education**
- 2. Co-operating with town or city authorities to carry out laws and ordinances**
- 3. Promoting legislation**
- 4. Registration of cases**
- 5. Maintenance of clinics, day-camps and classes**
- 6. Home supervision through visiting nurses or voluntary visitors**
- 7. Relief in the homes**
- 8. Systematic examination of members of the families of consumptives**
- 9. Furnishing funds for the treatment of the consumptives in institutions or in proper surroundings**
- 10. Seeking suitable employment for consumptive workingmen**



# **1911 Legislation**

- ❖ “Subsidy Act”- State subsidy to cities and towns for building hospitals**
- ❖ “Tuberculosis Dispensary Act”- Each city and town of 10,000 or more population must provide a TB dispensary for the needy with TB**
- ❖ “Tuberculosis Hospital Act”- Each city and town must provide isolation hospital capacity**

WHAT SPECIAL INSTRUCTIONS REGARDING TUBERCULOSIS SHOULD BE GIVEN INSTITUTION NURSES AND OTHER EMPLOYEES?

ARE NURSES CARING FOR CASES OF TUBERCULOSIS IN DANGER OF CONTRACTING THE DISEASE?\*

BY JOHN H. NICHOLS, M.D.,  
*Superintendent State Hospital, Tewksbury, Mass.*

The conditions favorable to its spread are filth, foul air, overwork, lack of proper and sufficient food, lack of sufficient exercise and irregular habits. The great enemies of tuberculosis, or safe-guards against it, are cleanliness, fresh air, sunlight, moderate exercise, regular habits of eating, sleeping and bathing, and especially out-of-door life.

#### THE TREATMENT OF TUBERCULOSIS IN PUBLIC INSTITUTIONS.\*

BY WILDER TILESTON, M.D.,  
*Assistant Visiting Physician, Long Island Hospital.*

THE treatment of tuberculosis in public institutions is a broad subject, and the time allotted me is brief, so I shall have to restrict myself to a few general remarks, omitting many details. It may be considered from three points of view, that of diet, of hygiene and of medicinal treatment.

The diet should be nourishing and varied. In food value it should equal, or even exceed, that of a healthy working person, that is to say, about 3,000 calories. This large amount of food is necessary to offset the increased breaking down of the body tissues, which is constantly taking place in phthisis, and to make up for past losses. Care must be taken, however, not to upset the digestion by overfeeding, and the amount of food which can be taken with advantage will vary according to the individual. In order to get in a maximum amount of nourishment, it is best to increase the number of meals to five or six daily. These are to consist of the usual three meals, with additional light meals in the middle of the

### Address.

#### THE SEGREGATION OF CONSUMPTIVES.

THE ANNUAL DISCOURSE DELIVERED BEFORE THE MASSACHUSETTS MEDICAL SOCIETY, JUNE 12, 1907.

BY J. F. ALLEYNE ADAMS, M.D., PITTSFIELD, MASS.

Since pulmonary tuberculosis is known to be actively infectious, through a specific germ, it is perfectly evident that the isolation of all infected persons would, in a few years, stamp it out. It is the leprosy of our time; and, as leprosy is kept under control by the segregation of lepers, so may consumption be eradicated by the segregation of consumptives.

### Symposium.

#### FOURTH MASSACHUSETTS CONFERENCE ON TUBERCULOSIS.

##### INTRODUCTORY REMARKS ON OPEN-AIR ROOMS.\*

BY JOSEPH LEE,  
*Member Boston School Committee.*

WHAT is most important in this matter of open-air rooms is a general recognition that treatment rather than diagnosis is the important thing. All rooms should be fresh-air rooms. All children need to breathe. It is not important whether they breathe because they are sick or because they are well. They are air-breathers in either case.

### Massachusetts Anti-Tuberculosis League

FIRST ANNUAL CONFERENCE,  
APRIL 1, 1915.

#### I.

##### THE ORIGIN AND AIMS OF THE MASSACHUSETTS ANTI-TUBERCULOSIS LEAGUE.\*

BY VINCENT Y. BOWDITCH, M.D., BOSTON,  
*President.*

In the case of tuberculosis, moreover, the fact of the long duration of the disease adds greatly to the difficulty of dealing with it in all its phases. With the acute infectious diseases, it is comparatively easy to seize upon a dangerous case and confine it closely for a comparatively short space of time. Not so with the consumptive, dragging out long months and years in the course of the disease: a fact which changes the moral aspect, as it were, of the question of dealing with such cases. For the welfare of our state, however, we are justified in demanding enlarged powers for our boards of health, by which sterner measures not inconsistent with kindness and regard for the feelings of others may be used for the enforced isolation of the incorrigible consumptive who persists, by careless and dirty habits, in making himself a source of danger to others. Lest there should be fear in the minds of some as to the justice of such summary procedures, it should be stated that amendments to existing laws have already been proposed by which the rights of patients will be amply protected before measures necessary for the public welfare shall be adopted.



CONSUMPTIVES' HOSPITAL BULLETIN No. 1

## CONSUMPTION

IS CAUSED  
by the POISON present in the  
Consumptive's SPIT

The Poisonous SPIT DRIES and  
goes as DUST into other people's  
Lungs

DON'T SPREAD the DISEASE.  
Don't let others spread it.

DON'T be a CARELESS SPITTER

CONSUMPTIVES' HOSPITAL BULLETIN No. 2

## SPITTING ON THE FLOORS

IS A MISDEMEANOR  
and is PUNISHABLE BY LAW

Spitting is a DANGEROUS  
PRACTICE. Disease is spread in  
that way

Protect yourselves and others  
from Disease by reporting the  
CARELESS SPITTER

CONSUMPTIVES' HOSPITAL BULLETIN No. 3

Don't Spit on the Sidewalks,  
where people may get the Poison-  
ous Spit on their clothing.

Don't Spit on the floors of

## TROLLEY OR RAILWAY CARS

IT MAKES THE DUST  
OF THE CARS DANGEROUS.

SPIT INTO SPITTOONS,  
or into places provided for spitting

CONSUMPTIVES' HOSPITAL BULLETIN No. 4

## CONSUMPTION

and other Diseases are  
SPREAD BY CARELESS SPITTING.

The SPIT of Consumptives is  
POISONOUS because it is full of  
GERMS

The POISONOUS SPIT dries  
and goes as DUST into other  
people's LUNGS

If you breathe the dust from  
Poisonous Spit YOU are LIABLE  
to GET DISEASE

CONSUMPTIVES' HOSPITAL BULLETIN No. 5

## PEOPLE WHO SPIT

on the FLOORS of their Homes  
SPREAD DISEASE.

CONSUMPTION especially is  
spread in that way

Workmen who spit on the floors  
of their Workshops spread disease

TOBACCO SPIT is just as  
DANGEROUS as any OTHER  
SPIT

CONSUMPTIVES' HOSPITAL BULLETIN No. 6

Don't Spit on the floors of your  
Rooms or Hallways.

Don't Spit on the floors of  
Public Places—the Spit may be  
POISONOUS.

Don't Spit on the floors of a Shop  
or Store. Dried Spit in the form  
of dust is DANGEROUS.

## SPIT INTO SPITTOONS

BULLETINS POSTED BY THE BOSTON CONSUMPTIVES' HOSPITAL.



# Hundreds Die of Consumption

BECAUSE

## SPITTING SPREADS DISEASE



**Do not spit yourself--Ask others to stop**

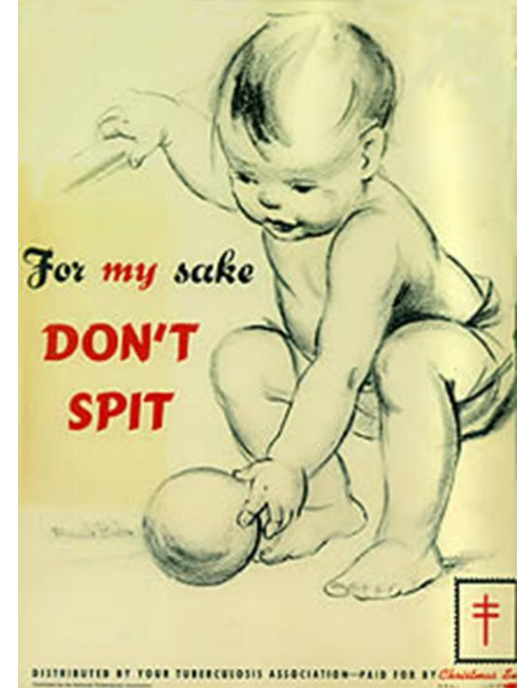
## PREVENT DISEASE



CARELESS  
SPITTING, COUGHING, SNEEZING,  
SPREAD INFLUENZA  
and TUBERCULOSIS



KENNELMAN COUNTY TUBERCULOSIS ASSOCIATION, 1917, N. Y.



For my sake

**DON'T  
SPIT**



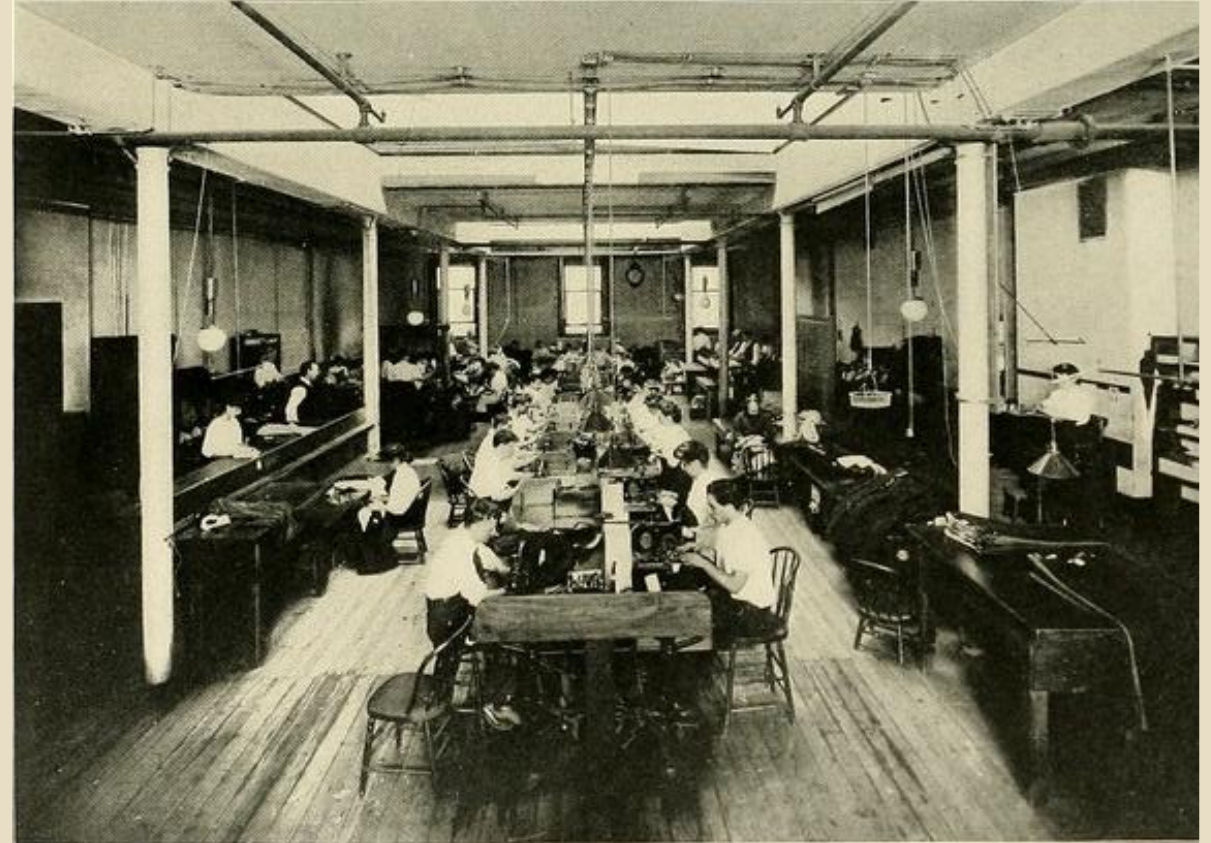
DISTRIBUTED BY YOUR TUBERCULOSIS ASSOCIATION—PAID FOR BY *Christmas Se*



**Typical Workplace**



**Ideal Workplace**





**THE FRAMINGHAM HEALTH AND TUBERCULOSIS DEMONSTRATION COMMUNITY PREVENTION, CONTROL, AND TREATMENT OF DISEASES, AS CARRIED OUT AT FRAMINGHAM, MASSACHUSETTS, 1916-1923**



**FRESH AIR AND GOOD FOOD, REST AND PLAY, FOR THE UNDER-NOURISHED CHILDREN.**

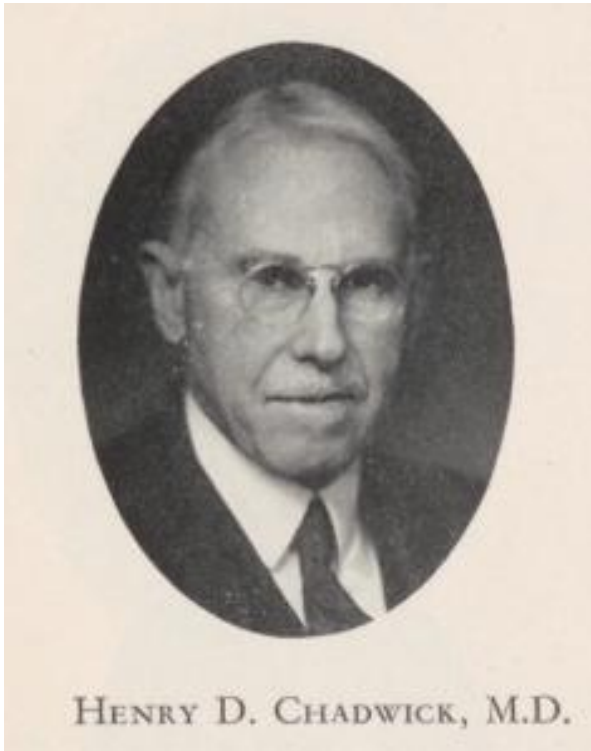




PRENDERGAST PREVENTORIUM FOR CHILDREN  
1000 HARVARD STREET, MATTAPAN, MASS.



# Henry D. Chadwick, MD



- ❖ Graduates from Harvard Medical School ,1895
- ❖ Enters practice in Waltham
- ❖ Treated for TB at Trudeau Sanatorium in Saranac Lake, NY, 1898-1900
- ❖ First Superintendent of the Vermont State Sanatorium for Incipient Tuberculosis, Pittsford, VT, 1905-1908
- ❖ First Superintendent of Westfield State Sanatorium, 1908-1929
- ❖ Controller of tuberculosis for Detroit, 1929-1933
- ❖ President, American Sanatorium Association, 1930
- ❖ Massachusetts Commissioner of Public Health, 1933-1938
- ❖ President, National Tuberculosis Association, 1939-1940
- ❖ President, Massachusetts Tuberculosis League, 1940s
- ❖ President Emeritus, Massachusetts Tuberculosis and Health League, 1945-1969

# THE INCIDENCE OF TUBERCULOUS INFECTION IN SCHOOL CHILDREN.

BY HENRY D. CHADWICK, M.D., AND DAVID ZACKS, M.D.,  
*Massachusetts Department of Public Health,*

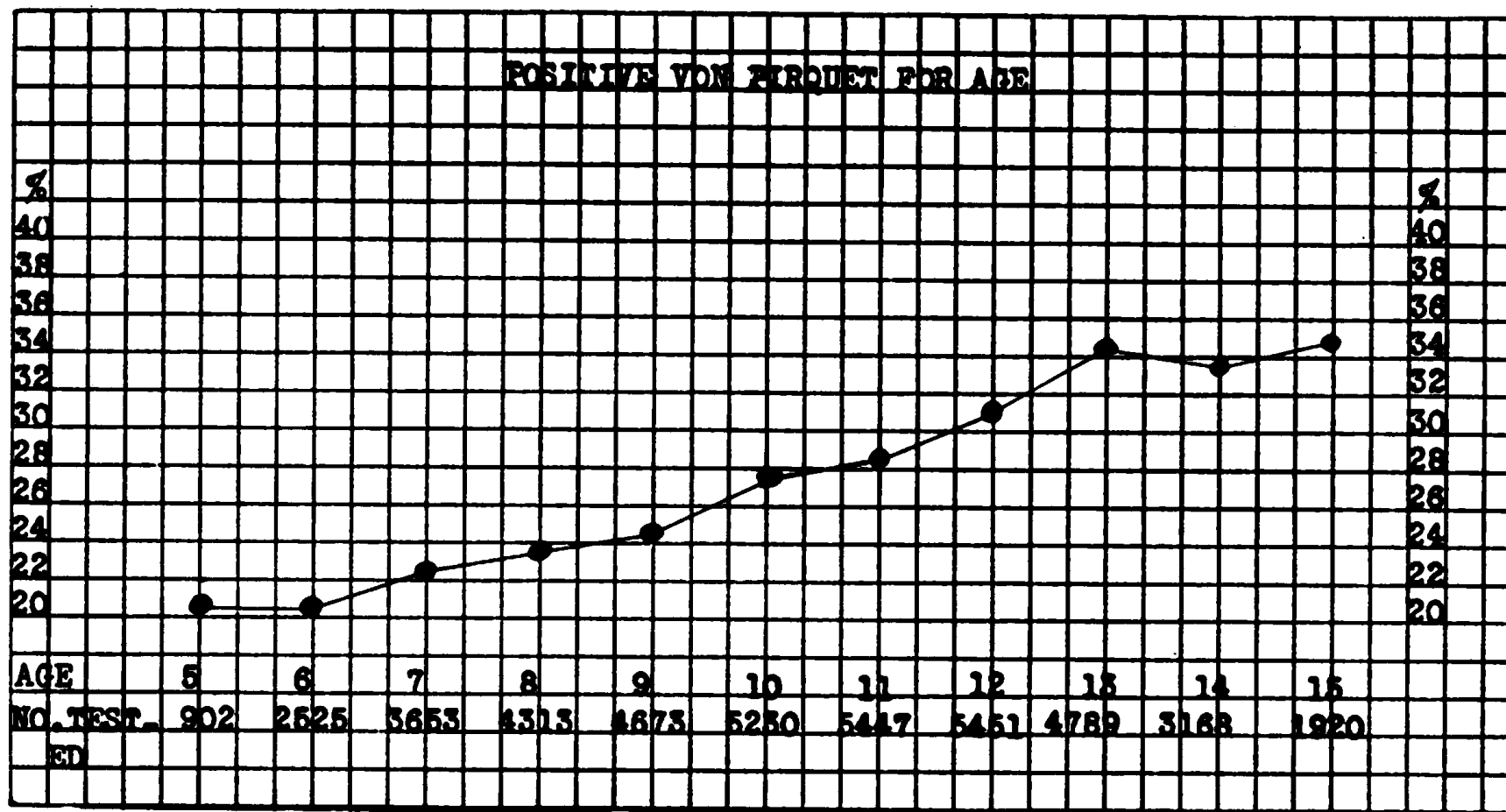
BOSTON, MASS.

The Department of Public Health of Massachusetts began in 1924 a ten-year program for the examination of the school children of the state. The purpose of this work was to find the children who had the primary or juvenile form of tuberculosis, and by treatment and supervision increase their resistance to such an extent that the secondary or pulmonary form would not develop in later years. This study is based on 42,071 children examined and given the Von Pirquet tuberculin test during a period of three years.

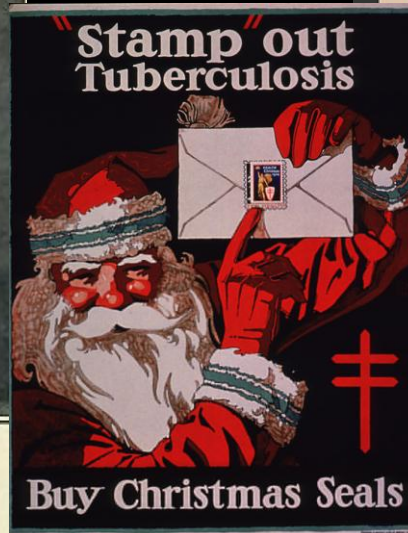
# THE RELATION OF POSITIVE VON PIRQUET TEST FOR AGE.

Age	5	6	7	8	9	10	11	12	13	14	15
Number examined .	902	2525	3653	4313	4673	5230	5447	5451	4789	3168	1920
Number positive . .	188	511	814	1031	1143	1463	1559	1660	1649	1057	666
Per cent . . . . .	20.8	20.2	22.2	23.9	24.4	27.9	28.6	30.4	34.4	33.3	34.6

GRAPH NO. I.





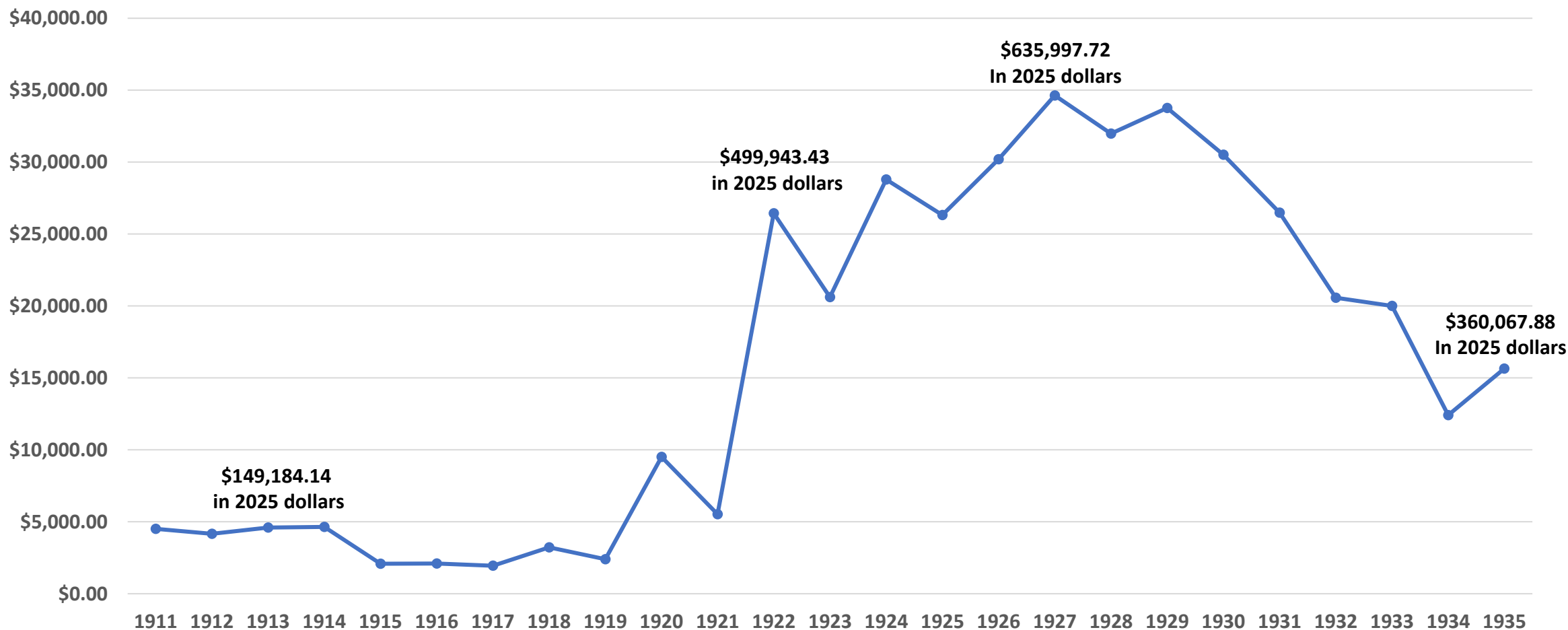


**FIGHT TUBERCULOSIS!**  
**Red Cross Christmas Seal**  
 Campaign

MAYOR AND MRS. CURLEY BUY CHRISTMAS SEALS FROM THE CHILDREN OF THE PRENDERGAST PREVENTORIUM.



# Boston Tuberculosis Association Net Income from Sale of Christmas Seals

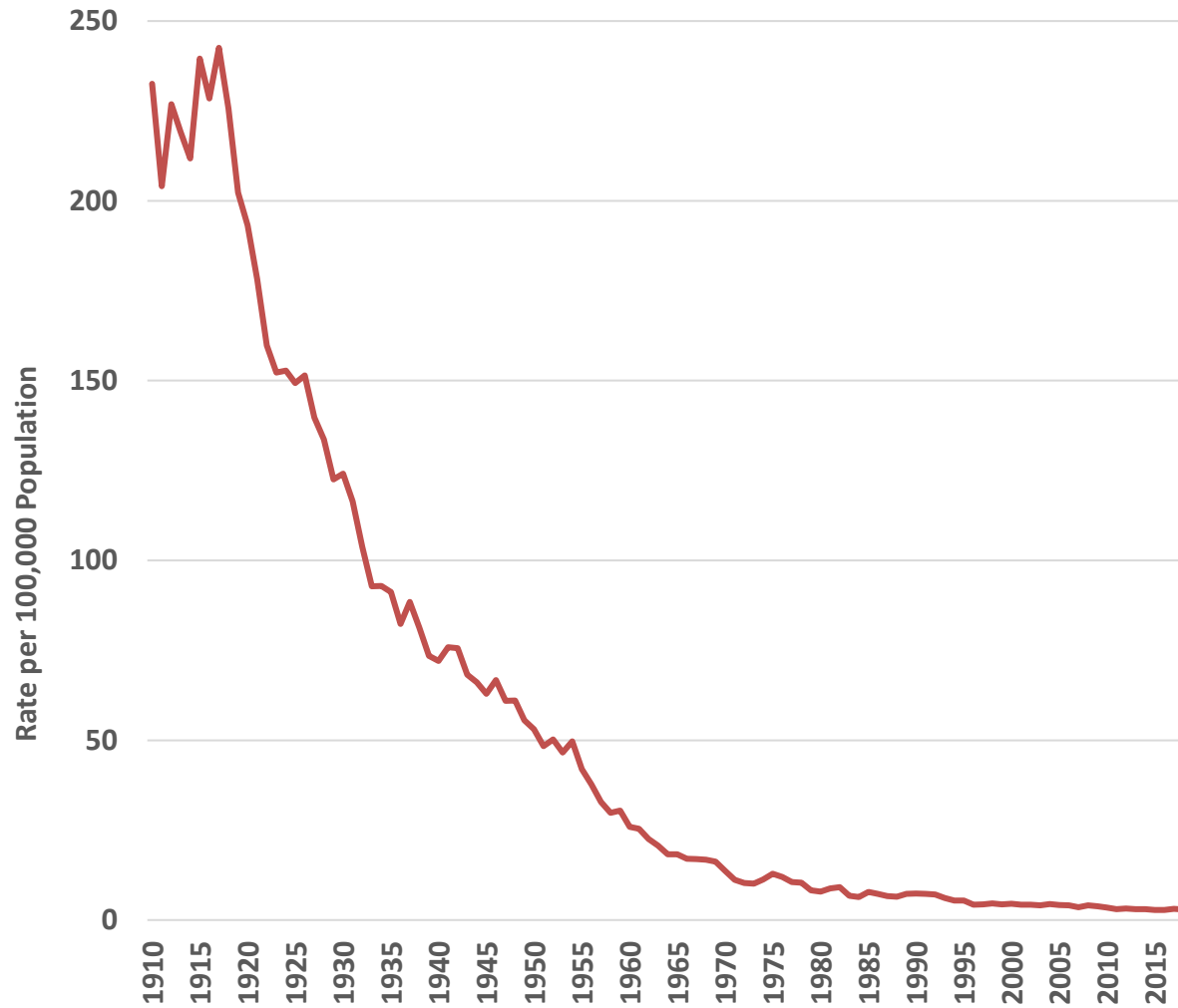


# **Advances in Tuberculosis Diagnosis, Treatment and Control**

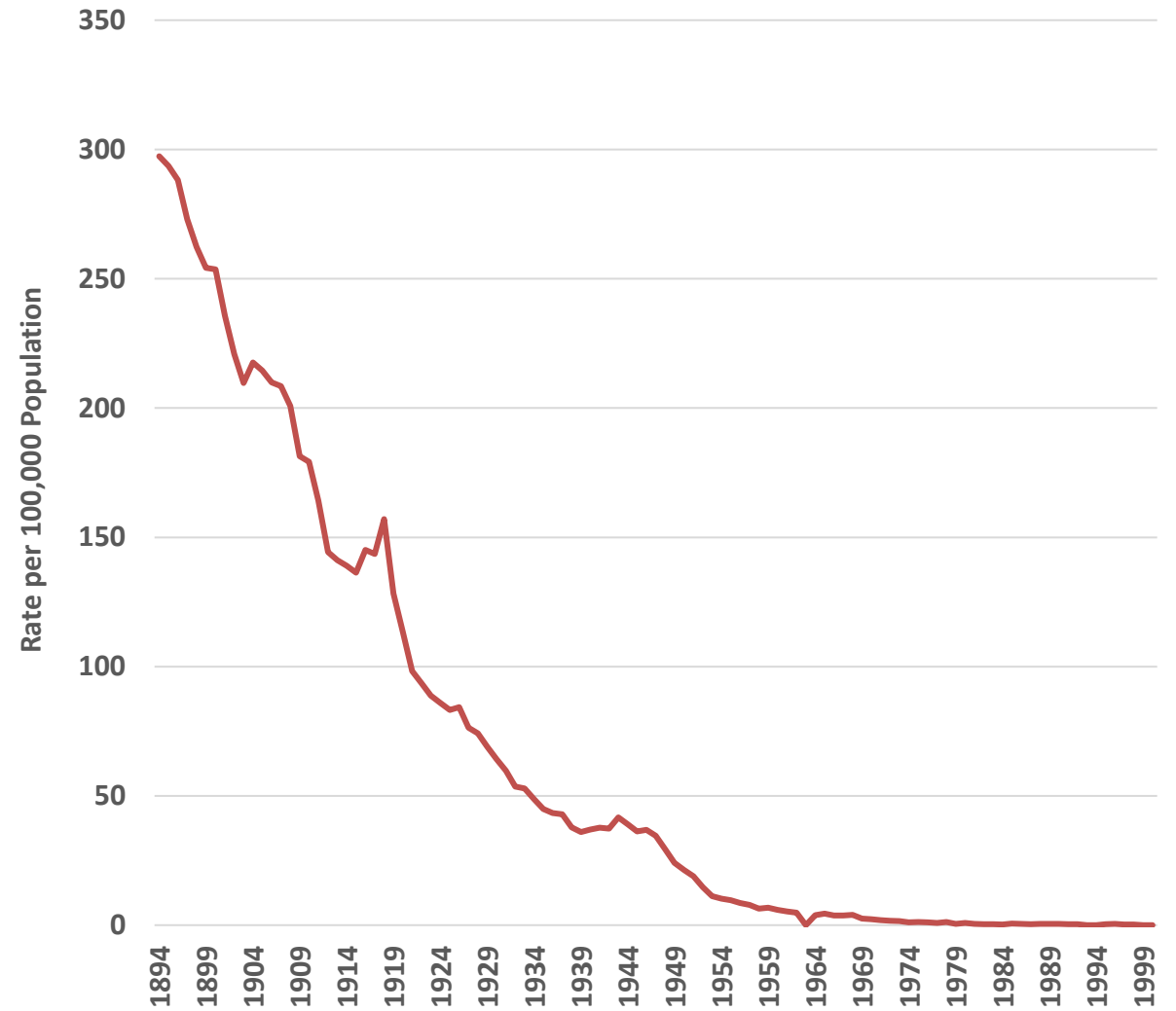
- ❖ **1882 - *Mycobacterium tuberculosis* identified by Koch**
- ❖ **1895 - Röntgen discovers x-rays**
- ❖ **1907 - Mantoux develops the tuberculin skin test**
- ❖ **1921 - Bacillus Calmette–Guérin (BCG) vaccine**
- ❖ **1946-48 - Streptomycin effective for treatment of TB**
- ❖ **1952 – Triple therapy introduced**



**Tuberculosis Incidence in Massachusetts,  
per 100,000, 1910-2018**



**Rate of Tuberculosis Deaths in Massachusetts,  
per 100,000, 1894-2000**





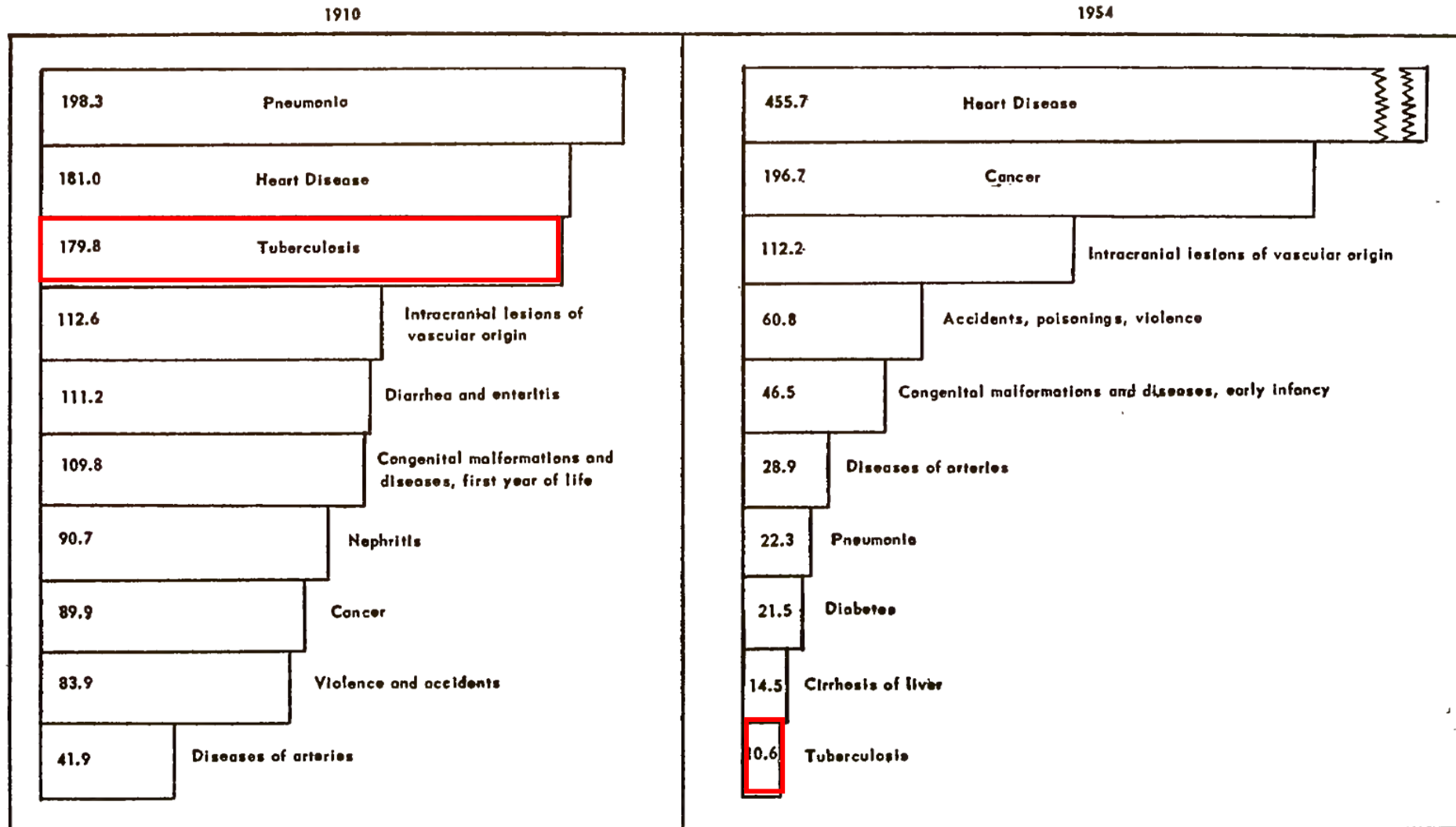
MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH  
**CHEST X-RAY SERVICE**  
YOU HAVE PURCHASED THIS EQUIPMENT  
WITH CHRISTMAS SEALS  
THROUGH YOUR TUBERCULOSIS ASSOCIATION

S1220

# TEN LEADING CAUSES OF DEATH IN MASSACHUSETTS

1910 and 1954

Death Rates per 100,000

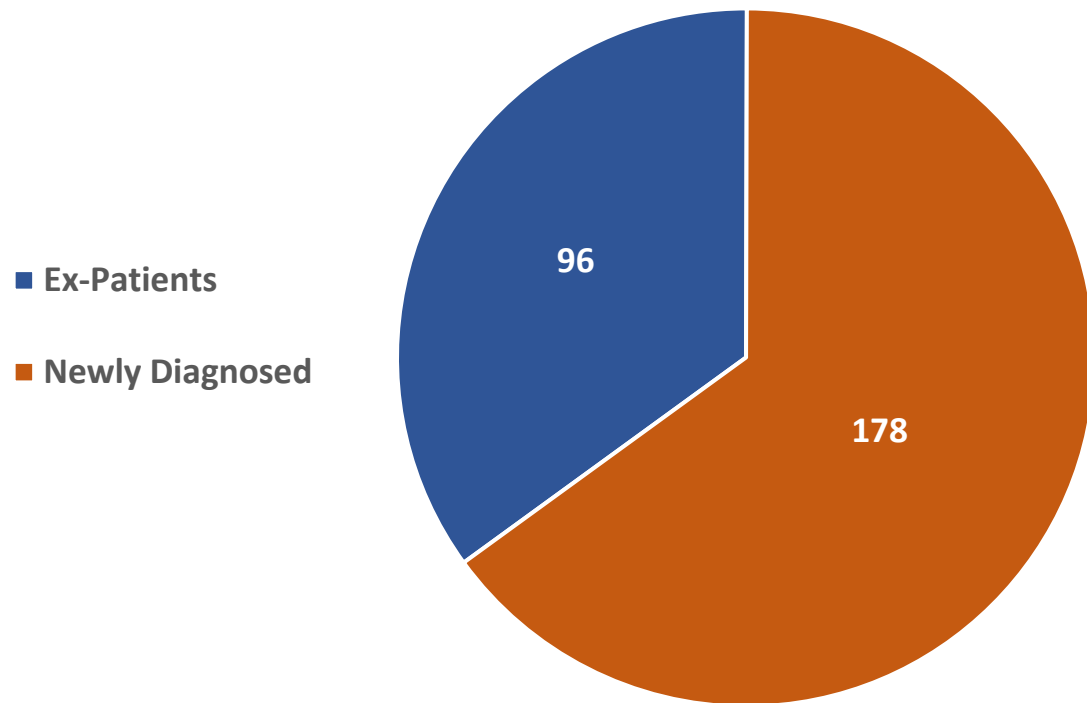




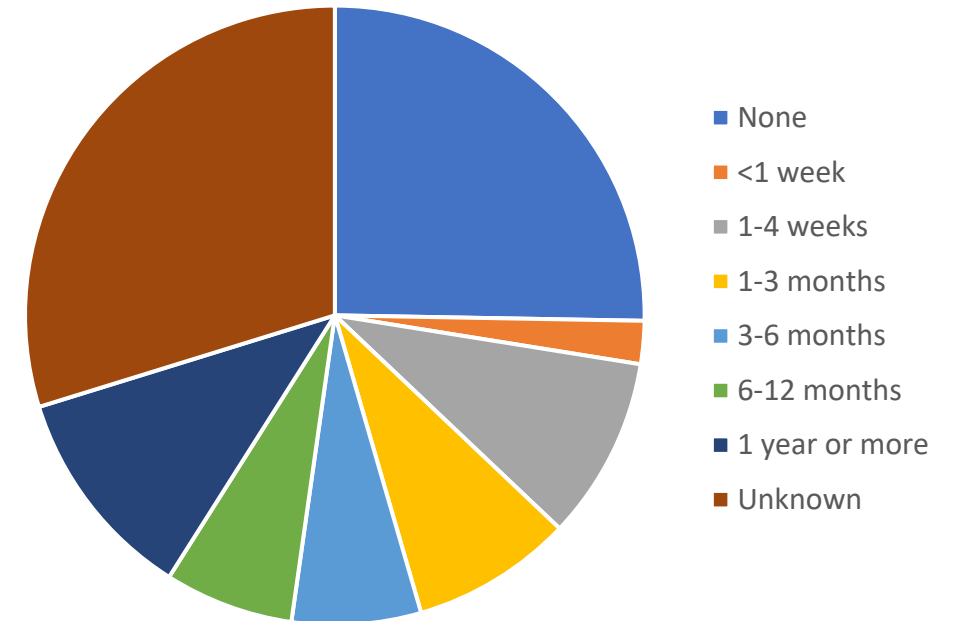
# Admissions to Five Massachusetts Sanitoriums in 1964

Ganem BT, Public Health Reports 1966, 81: 363-368

Patients Admitted



Duration of Symptoms in Newly Diagnosed



# Massachusetts Tuberculosis Patient Days and Cost

Year	Patient Days	Cost per diem
1958	616,863	\$18.94
1963	301,250	\$20.50
1969	121,768	\$37.85
1970	103,313	\$54.37
1975	26,111	\$158.60
1989	3,172	\$428.00

Arden House  
AMERICA'S FIRST CONFERENCE CENTER



# The ARDEN HOUSE CONFERENCE on TUBERCULOSIS

*Sponsored by* THE NATIONAL TUBERCULOSIS ASSOCIATION and  
THE U.S. PUBLIC HEALTH SERVICE, TUBERCULOSIS PROGRAM

*This publication presents*

THE CONFERENCE RECOMMENDATIONS

A SUMMARY OF THE DELIBERATIONS

BACKGROUND MATERIAL PREPARED FOR CONFEREES

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

Tuberculosis Program



# **The Arden House Conference on Tuberculosis, 1959, Recommendations**

**Goal : To sterilize that important part of the reservoir of tubercle bacilli that presently exists throughout the country in persons currently suffering from active tuberculous disease , whether presently known or unknown to public health authorities, and in selected persons who previously have had active disease and were inadequately treated.**

# **The Arden House Conference on Tuberculosis, 1959, Recommendations**

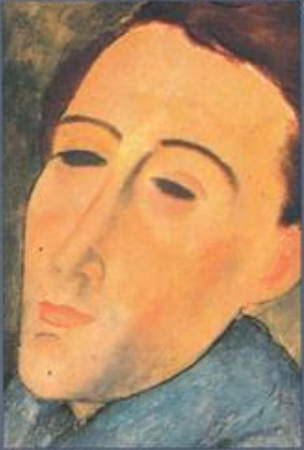
- 1. Assumption by State and local public health authorities of their responsibility for insuring adequate treatment and rehabilitation of all patients with tuberculosis**
- 2. Concentration of the tuberculosis control program on those segments of the population with the greatest tuberculosis problem**
- 3. Establishment of intermediate goals, en route to the elimination of tuberculosis , together with corresponding suggested program priorities and performance standards**
- 4. Periodic evaluation on a statewide basis of tuberculosis detection programs, with adjustment of such programs accordingly**
- 5. Periodic review by the U.S. Public Health Service of reporting practices within the various States**
- 6. Systematic local investigation of tuberculosis cases first reported by death certificate**
- 7. Provision of laboratory services conveniently available to all physicians diagnosing and treating tuberculosis patients**
- 8. Use of BCG according to the recommendations**



# **The Arden House Conference on Tuberculosis, 1959, Recommendations (Continued)**

- 9. Intensification of research with regard to the social ,  
psychological, and cultural factors that affect:**
  - a) acceptance of case detection and treatment, together with  
continuation of treatment**
  - b) differential susceptibility of the individual to tuberculosis**
  - c) nature and results of treatment program**
- 10. Intensification of research for a simple and accurate tuberculin test**
- 11. Recognition of the importance and potential significance of the  
current isoniazid prophylaxis field study**

# Ending Neglect



The Elimination  
of  
Tuberculosis  
in the  
United States

INSTITUTE OF MEDICINE

## Ending Neglect, IOM, 2000 Recommendations

- 1. Maintaining control of tuberculosis while adapting to a declining incidence of disease and changing systems of health care financing and management**
- 2. Increased efforts related to targeted tuberculin skin testing and treatment of latent infection.**
- 3. Developing the tools needed for the ultimate elimination of tuberculosis, new diagnostic tests, particularly for diagnosis of infection, new treatments, and an effective vaccine.**
- 4. Increasing U.S. engagement in global efforts**
- 5. Mobilizing support for elimination and regularly measuring progress toward that goal**

# National “TB” Associations



**ALA**

**National Association for the Study and Prevention of Tuberculosis (1904–1918)**

**National Tuberculosis Association (1918–1968)**

**National Tuberculosis and Respiratory Disease Association (1968–1973)**

**American Lung Association (since 1973)**



**ATS**

**American Sanatorium Association (1905-1938)**

**American Trudeau Society (1938-1960)**

**American Thoracic Society (since 1960)**



# **Modern Goals for Tuberculosis Control**

- ❖ Find cases**
- ❖ Treat cases effectively to cure**
- ❖ Identify contacts**
- ❖ Identify TB infection**
- ❖ Treat TB infection**
- ❖ Reduce the likelihood of transmission**

# **Current Infrastructure in Massachusetts**

- ❖ **17 dedicated state-supported TB clinics**
  - ❖ **Billing mechanisms**
- ❖ **In-patient TB treatment unit at the Lemuel Shattuck Hospital**
  - ❖ **Now integrated into hospital population**
- ❖ **Mycobacteria Laboratory at the State Public Health Laboratory**
- ❖ **Nurse case management required by regulation**
- ❖ **Community health workers**
  - ❖ **DOT and communications**



# Dedicated TB Clinical Services



# Challenges

- ❖ Limited resources, funding
- ❖ Marginalized populations
- ❖ Fear
- ❖ Stigma
- ❖ Lack of social supports
- ❖ Expertise limited to few
- ❖ Directly observed therapy
- ❖ Complicated treatment
- ❖ Drug resistance

- ❖ Drug shortages
- ❖ Diagnostic complexities
- ❖ Reagent and test shortages
- ❖ Lingering pandemic effects
- ❖ Mass deportation
- ❖ Misinformation
- ❖ Disinformation
- ❖ Foreign aid funding losses
- ❖ Domestic funding losses

# **Context: 1905 Versus 2025 in U.S.**

**1905**

**TB ubiquitous (~250/100,000)**

**Active disease arrestable**

**Everyone perceived themselves to be at risk (“them and us”)**

**Everyone understood the extent of the problem**

**Public health investment, but problem larger than resources**

**2025**

**TB “rare” (~3/100,000)**

**Curable**

**TB happens to someone else (“them”)**

**Public unaware of TB unless they have personal experience or awareness temporarily raised by media**

**Resources limited**

**Tuberculosis control and  
tuberculosis management  
has always been difficult.**



# Potential Responses to Challenges?

- ❖ **Recruit champions**
- ❖ **Develop effective messaging**
- ❖ **Leverage screening related to biologics for education**
- ❖ **Shift TB care to primary care**
- ❖ **Increase patient navigation**
- ❖ **Take advantage of changing technology**
- ❖ **Leverage current advances in treatment**

Stop **TB** Partnership

hosted by  
 UNOPS



# THE GLOBAL PLAN TO END TB

2023-2030



# **PUBLIC HEALTH MUSEUM**

## **IN MASSACHUSETTS**



<http://www.publichealthmuseum.org/>