

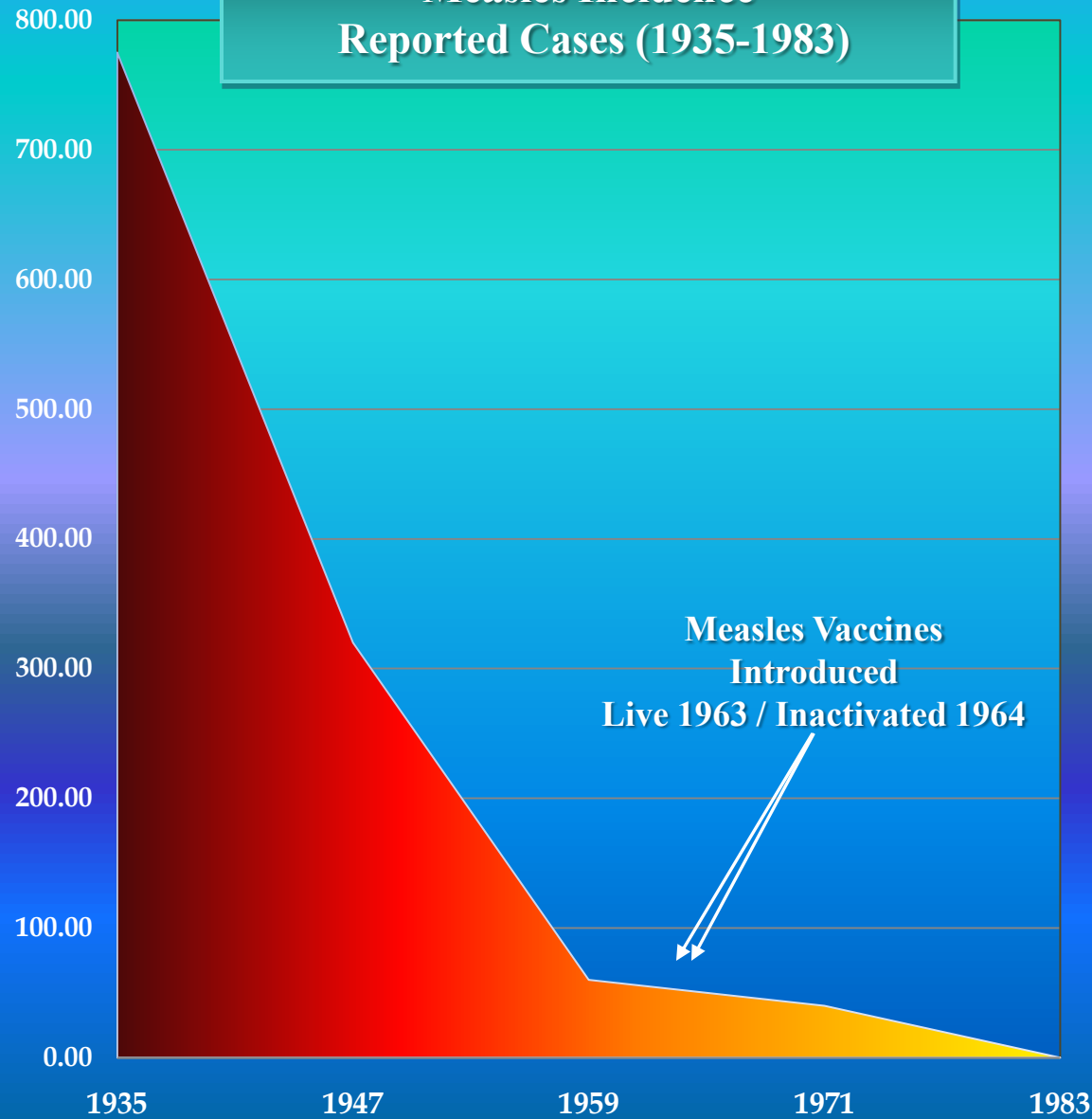
# **Immunization Graphs**

**Prepared by:**

**Raymond Obomsawin M.Sc., Ph.D.**

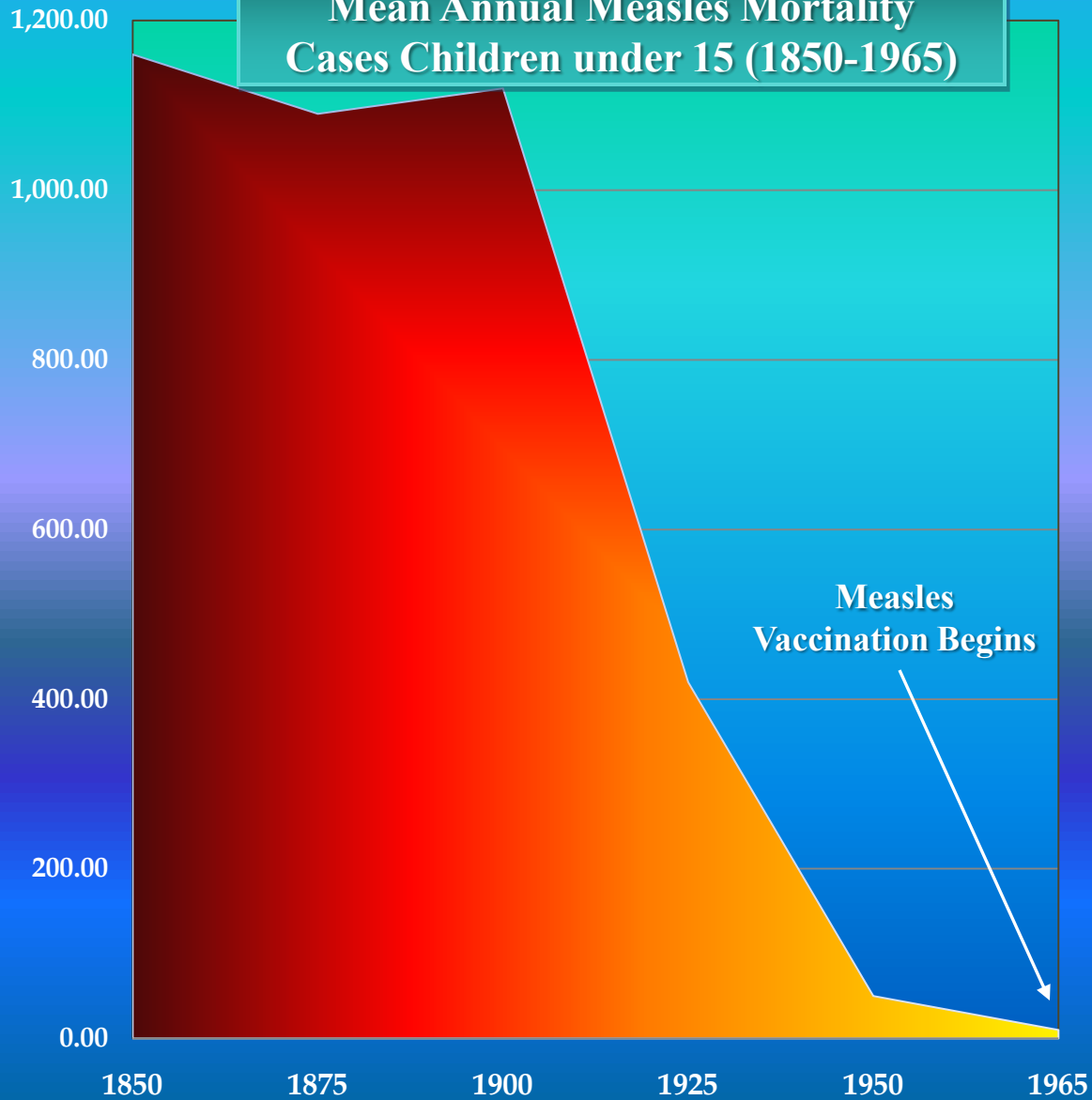
**December, 2009**

# Canada Measles Incidence Reported Cases (1935-1983)



Source: Adapted from: Public Health Agency of Canada, Figure 8 – Measles Reported Incidence Canada. <http://www.phac-aspc.gc.ca/publicat/cig-gci/p04-meas-roug-eng.php>

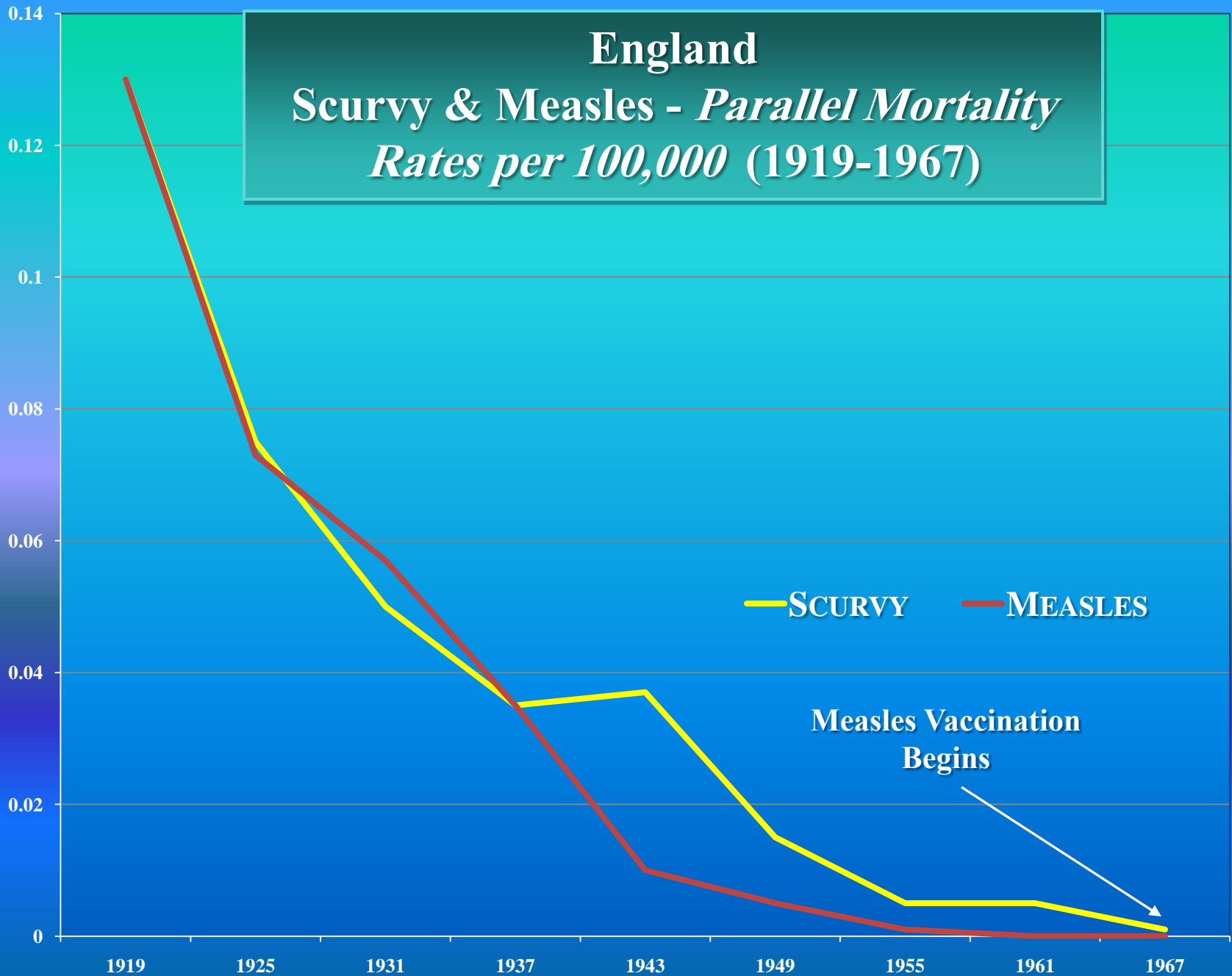
# England & Wales Mean Annual Measles Mortality Cases Children under 15 (1850-1965)



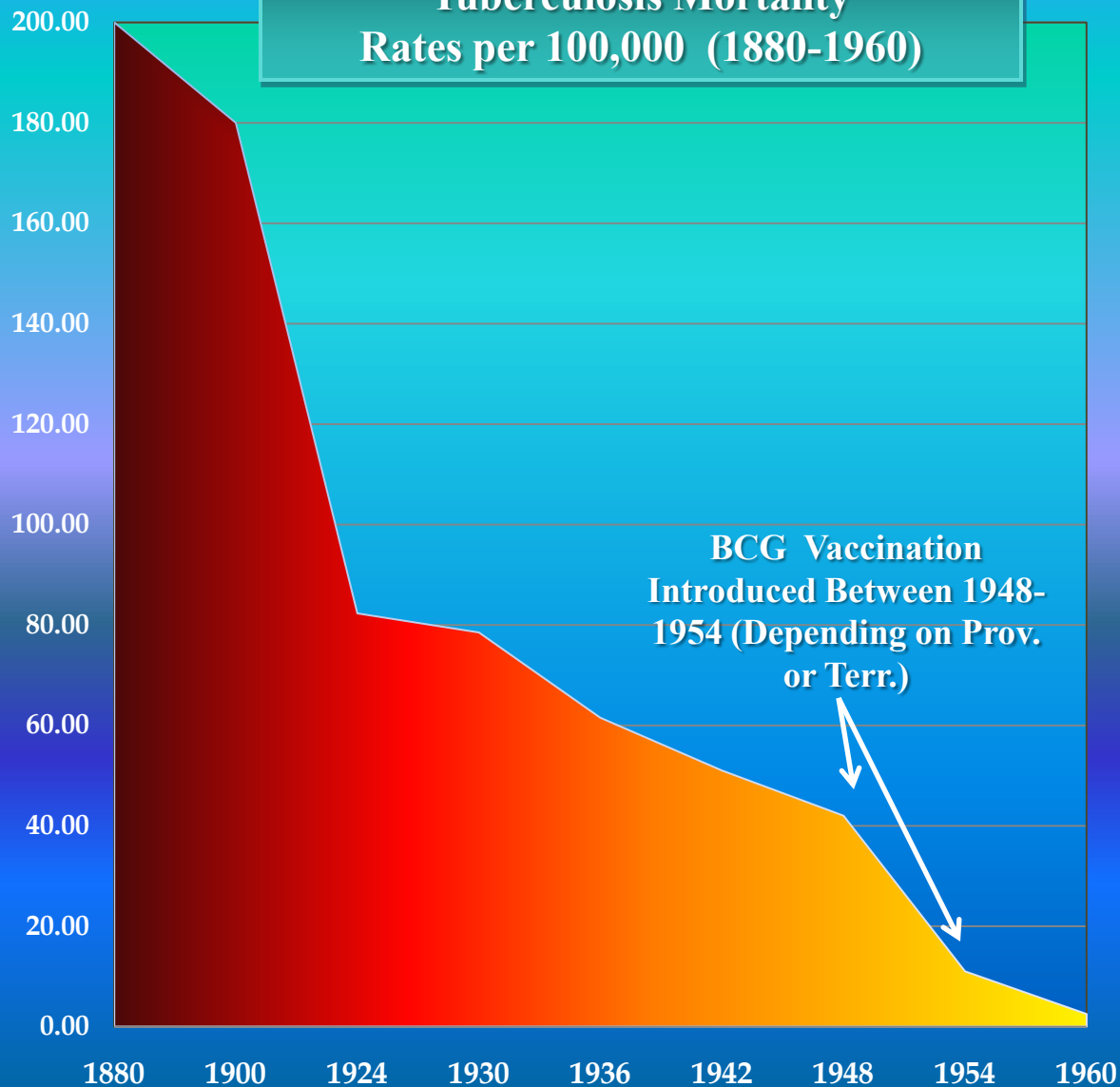
**Source:** McKeown, T., *The Role of Medicine: Dream, Mirage or Nemesis?*; Basil Blackwell; Oxford, UK; 1979; p. 105; & Waltzkin, H., in *The Relevance of Social Science for Medicine*; Springer; 1st edition, Dec. 31, 1980

# England

## Scurvy & Measles - *Parallel Mortality* Rates per 100,000 (1919-1967)

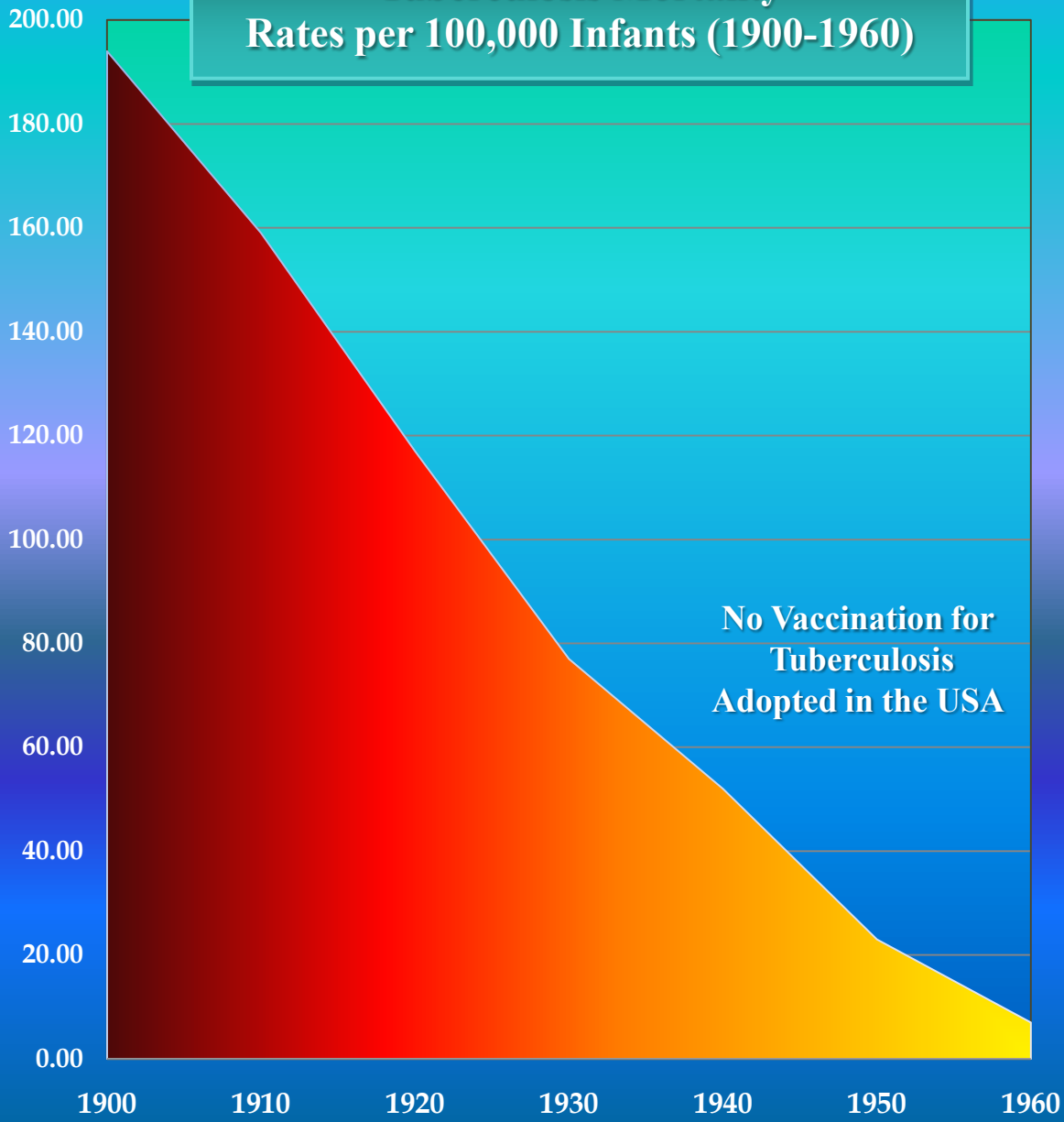


# Canada Tuberculosis Mortality Rates per 100,000 (1880-1960)



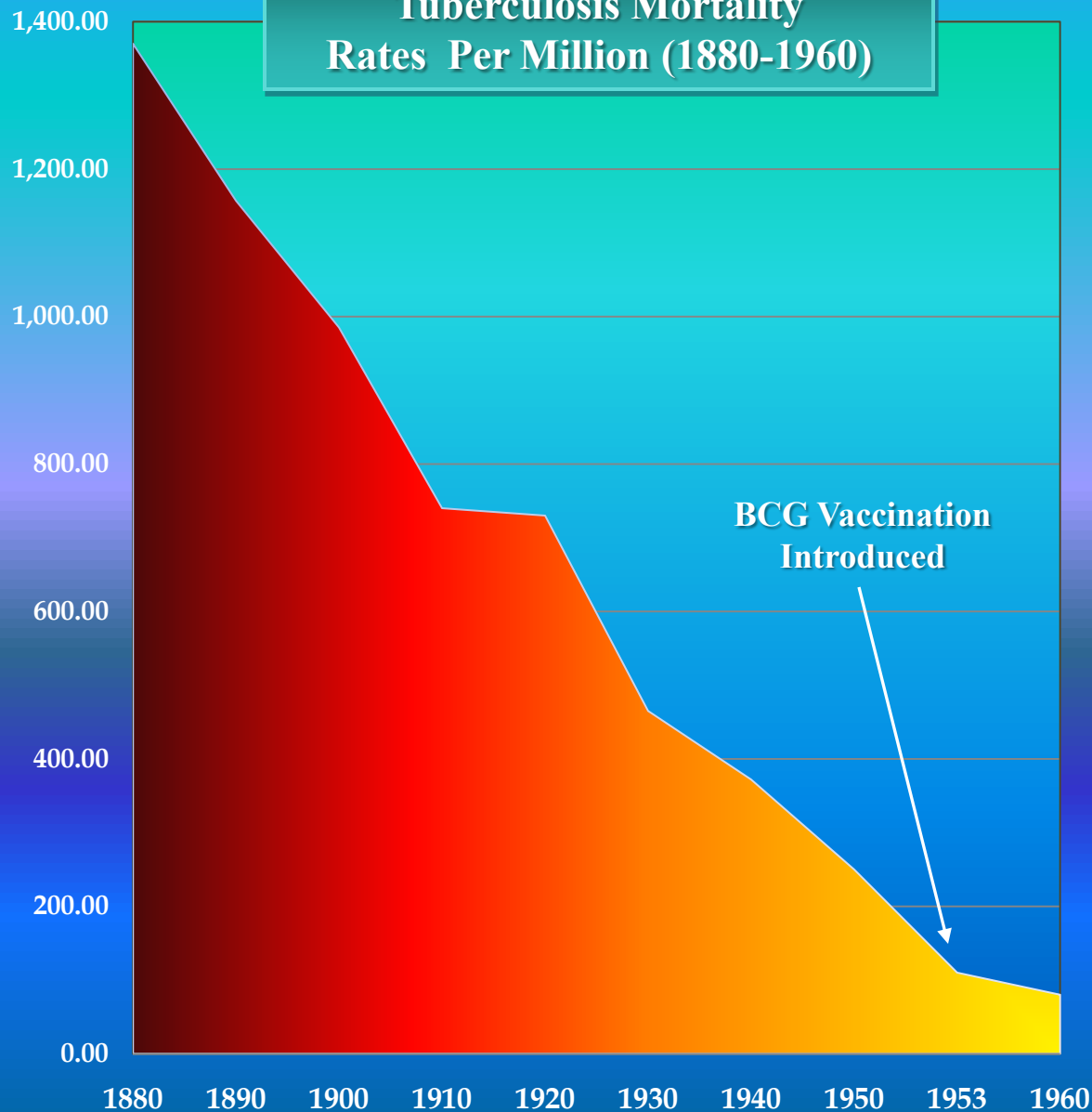
Source: based on data at: Timeline of TB in Canada <http://www.lung.ca/tb/tbhistory/timeline/>;  
<http://www.thecanadianencyclopedia.com/index.cfm?PgNm=TCE&Params=A1ARTA0008151>  
Public Health Agency of Canada: <http://www.phac-aspc.gc.ca/publicat/cig-gci/p04-bcg-eng.php>; &  
PHAC on BCG usage in Canada: [http://www.phac-aspc.gc.ca/tbpc-latb/bcgvac\\_1206-eng.php](http://www.phac-aspc.gc.ca/tbpc-latb/bcgvac_1206-eng.php)

**United States  
Tuberculosis Mortality  
Rates per 100,000 Infants (1900-1960)**



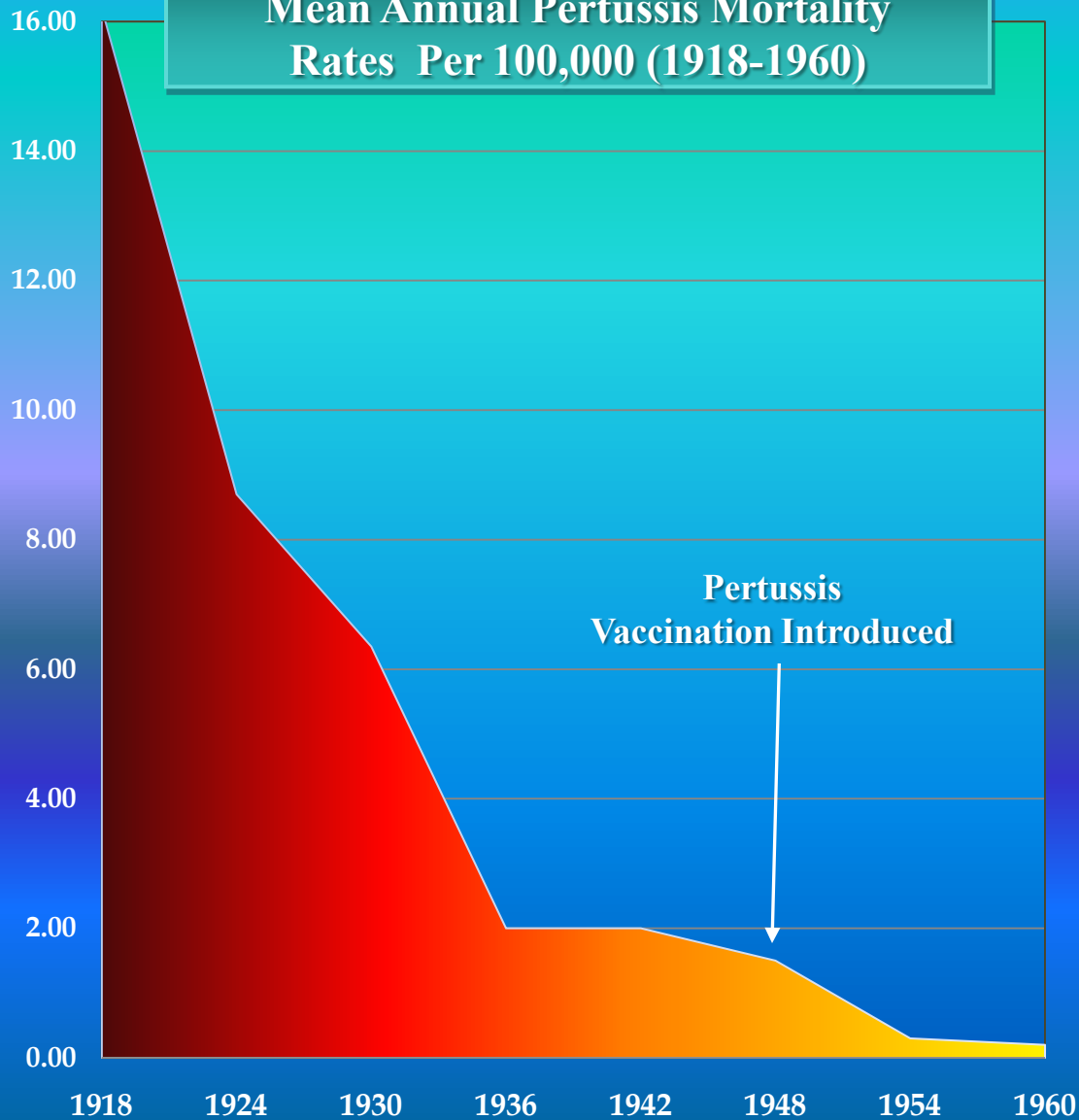
**No Vaccination for  
Tuberculosis  
Adopted in the USA**

# New Zealand Tuberculosis Mortality Rates Per Million (1880-1960)



**Source:** Director General Annual Mortality Reports Covering 1872-1960, New Zealand Parliamentary Journals for the Years Specified.

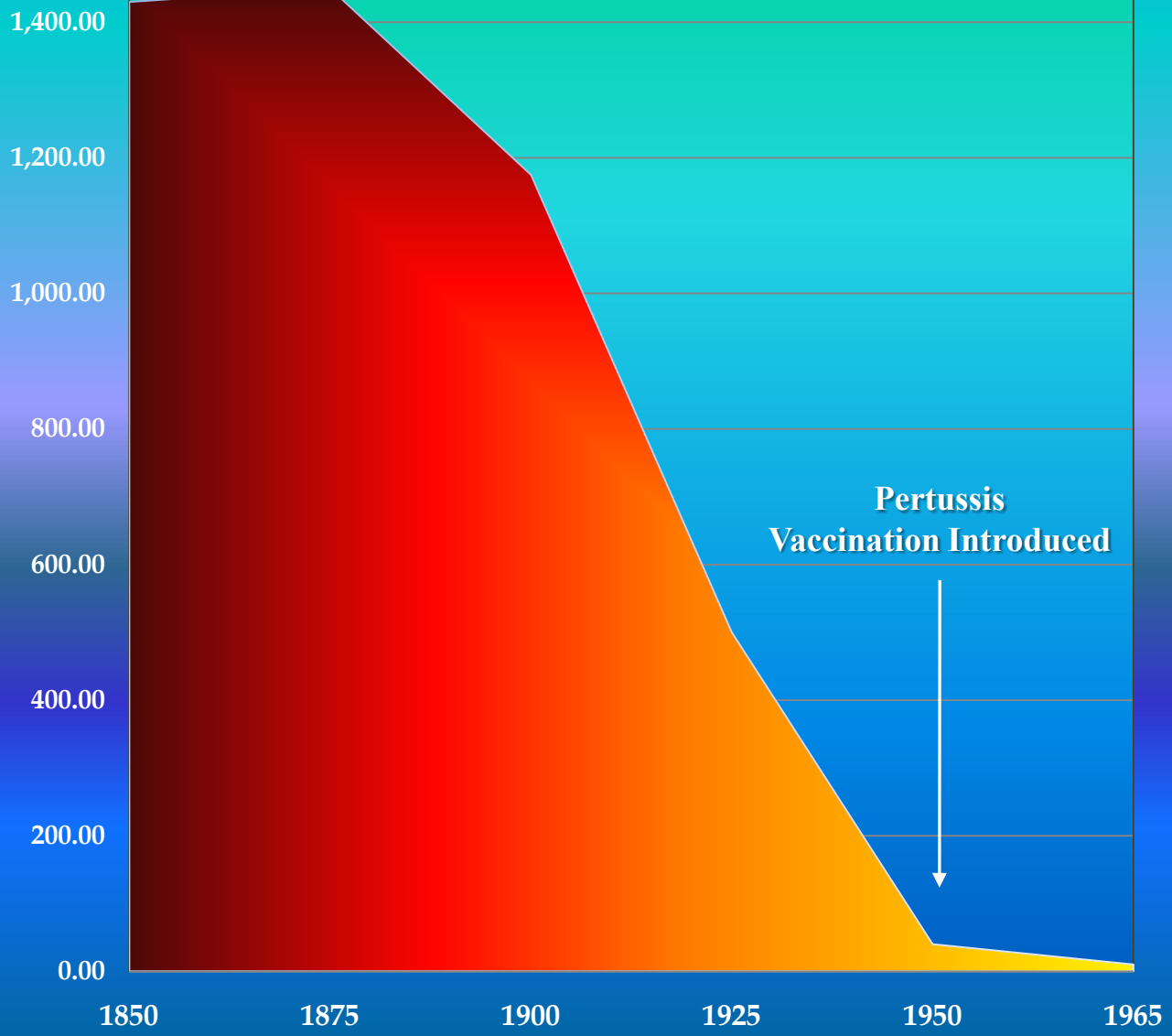
# United States Mean Annual Pertussis Mortality Rates Per 100,000 (1918-1960)



Source: Data derived from: Vital Statistics of the United States 1937-1960; and Historical Statistics of the United States: Colonial Times to 1970 Part 1 Ch. B Vital Statistics and Health and Medical Care, pp. 44-86H.



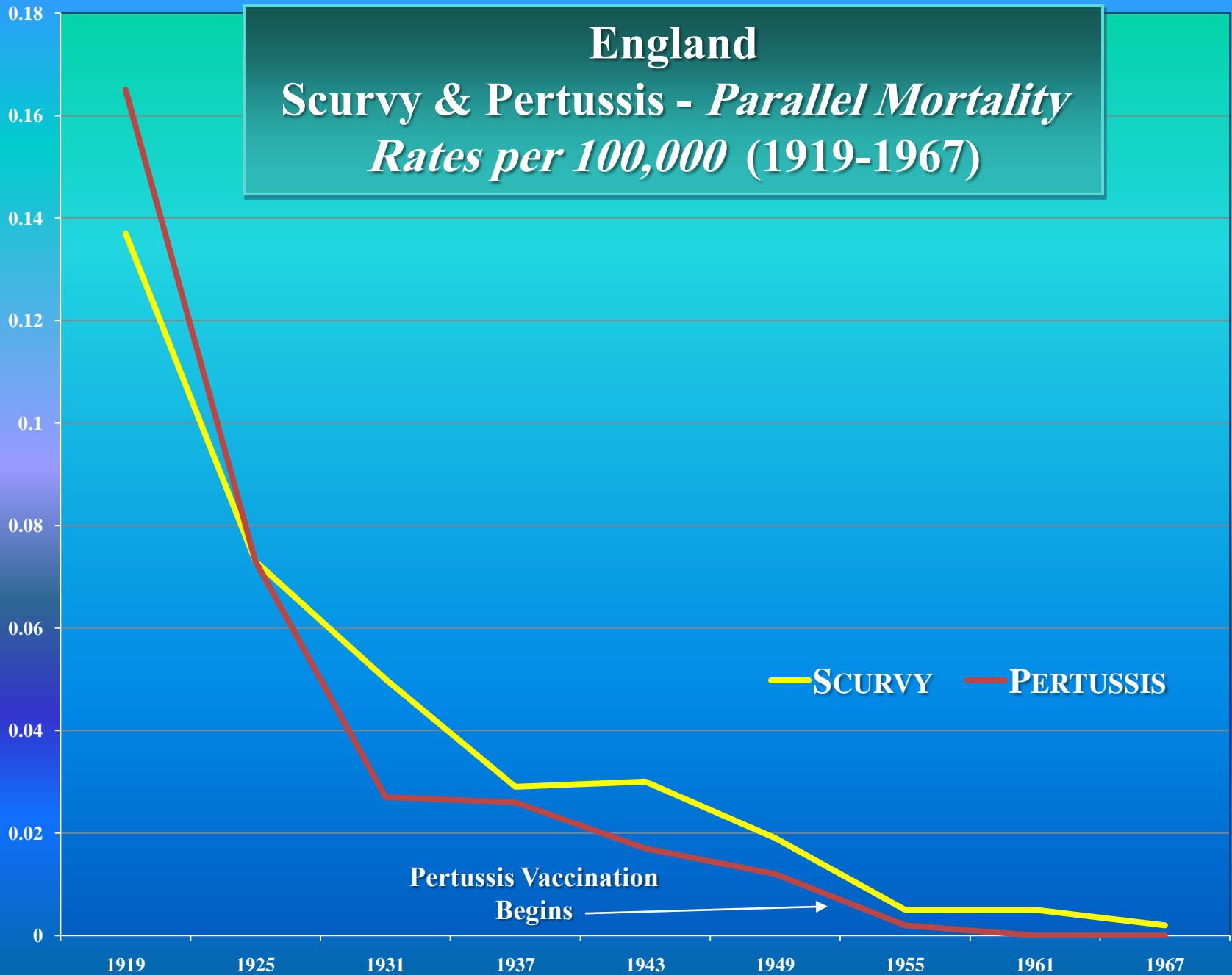
# England & Wales Mean Annual Pertussis Mortality Cases Children under 15 (1850-1965)

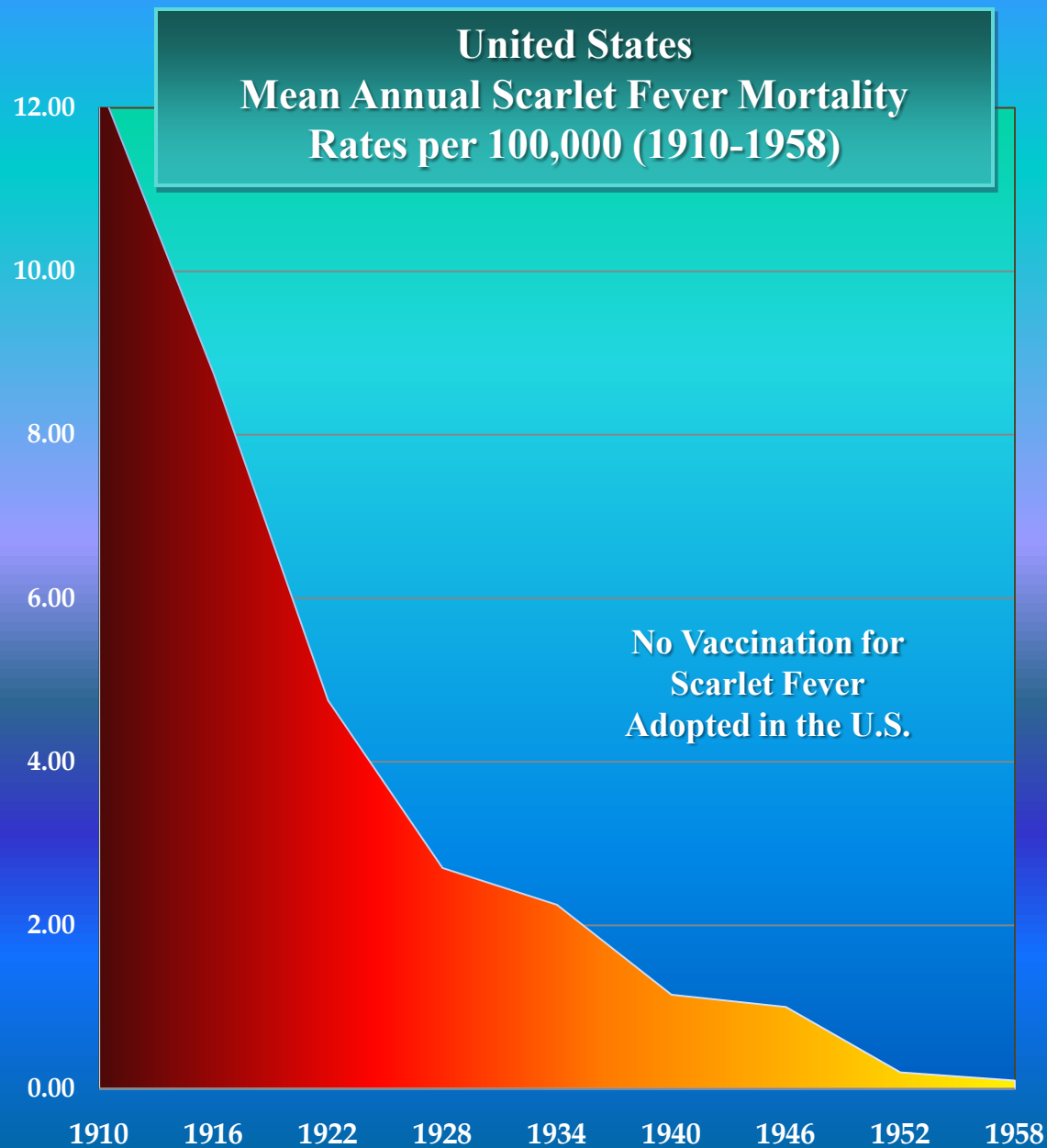


Source: Thomas McKeown, *The Role of Medicine: Dream, Mirage or Nemesis?*; Basil Blackwell; Oxford, UK; 1979; p. 103

# England

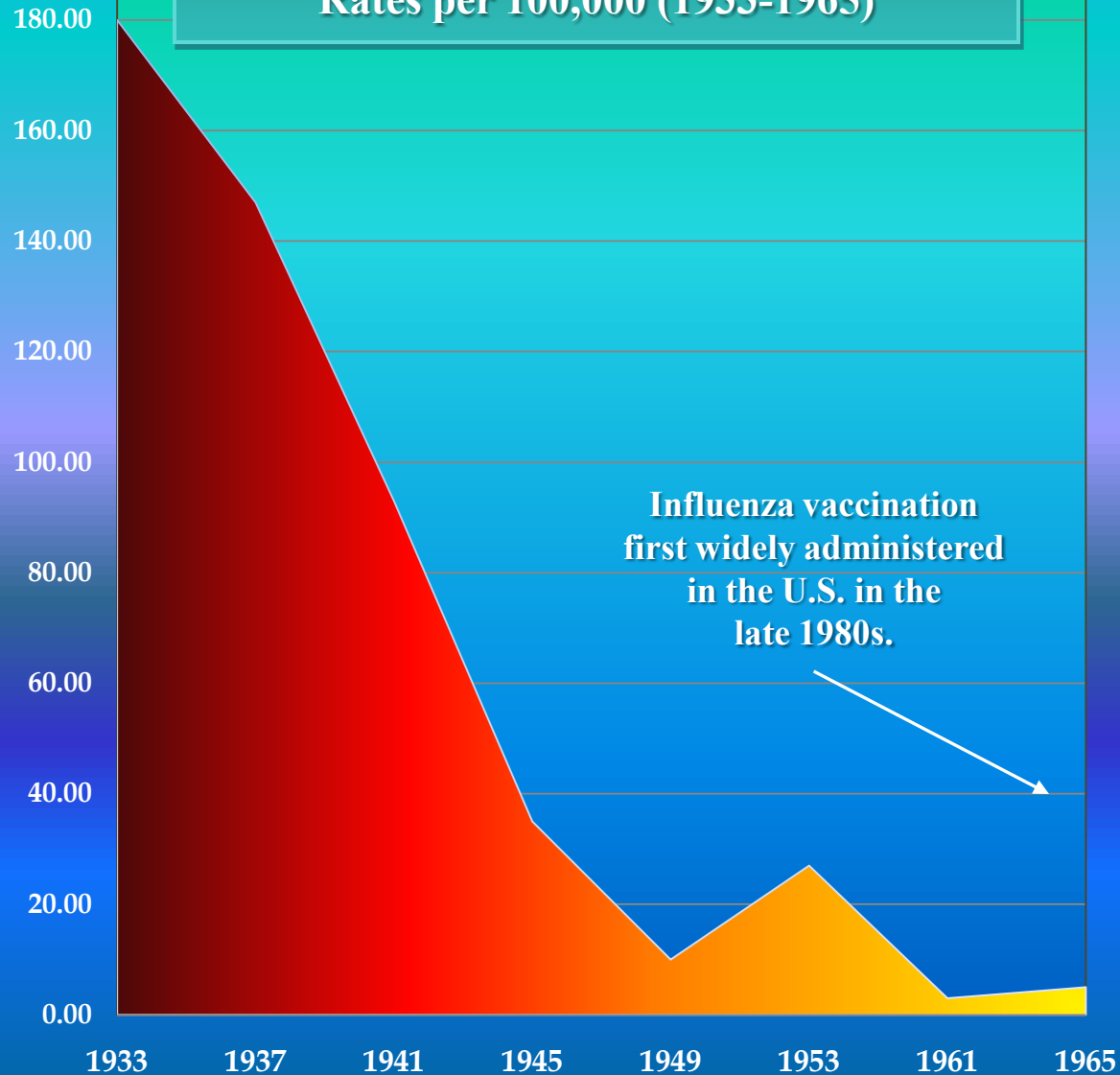
## Scurvy & Pertussis - *Parallel Mortality* Rates per 100,000 (1919-1967)





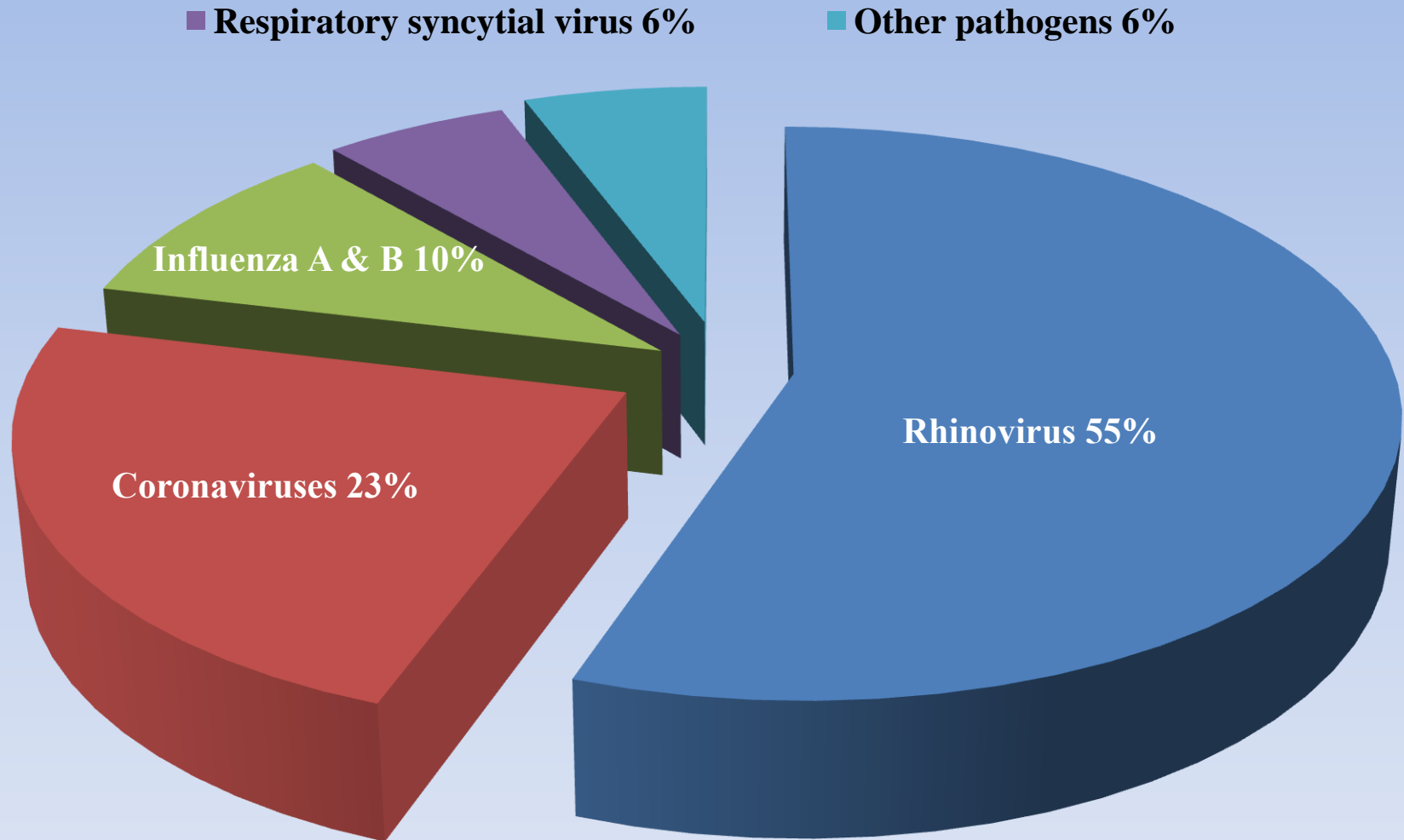
Source: Data derived from - Vital Statistics of the United States 1937-1960; and Historical Statistics of the United States: Colonial Times to 1970 Part 1 Ch. B Vital Statistics and Health and Medical Care, pp. 44-86H.

# United States Annual Influenza Mortality Rates per 100,000 (1933-1965)



Source: Doshi, P., Trends in Recorded Influenza Mortality: United States 1900-2004, American Journal of Public Health, May 2008, vol. 98, no. 5, p. 941.

# Flu-Like Acute Respiratory Infections



Nicholson, K.G. et. al., Acute viral infections of upper respiratory tract in elderly people living in the community: comparative, prospective, population based study of disease burden, *British Medical Journal*, No. 315, October 25, 1997, pp. 1060-1064

**Children Under 2 Yrs of Age**  
**Inactivated Influenza Vaccine**



**Source:** Cochrane Collaboration Database of Systematic Reviews, (John Wiley & Sons, Ltd.) 2006 (1) Article No. CD004879 – Covers 51 Studies on 260,000 children

**Elderly Living in Communities  
& Group Homes  
Inactivated Influenza Vaccine**

**Little or No  
Effectiveness**

**Source:** Cochrane Collaboration Database of Systematic Reviews, (John Wiley & Sons, Ltd.) 2006 (3) Article No. CD004876 – Covers 64 Studies, over 40 years of influenza vaccination and see: <http://www.bmj.com/cgi/content/full/333/7574/912>

# BCG for Tuberculosis

Note: Tuberculosis higher among  
two (2) dose Vaccinated versus  
Placebo Group

**0%**

**Effective**

**Source: Randomised controlled trial of single BCG, repeated BCG, or combined BCG and killed *Mycobacterium leprae* vaccine for prevention of leprosy and tuberculosis in Malawi; The Lancet, Volume 348, Issue 9019, Pages 17 - 24, July 6, 1996.**



# BCG for Tuberculosis

Note: In years 0-2.5 the vaccinated  
had double the incidence of  
Tuberculosis versus Placebo Group

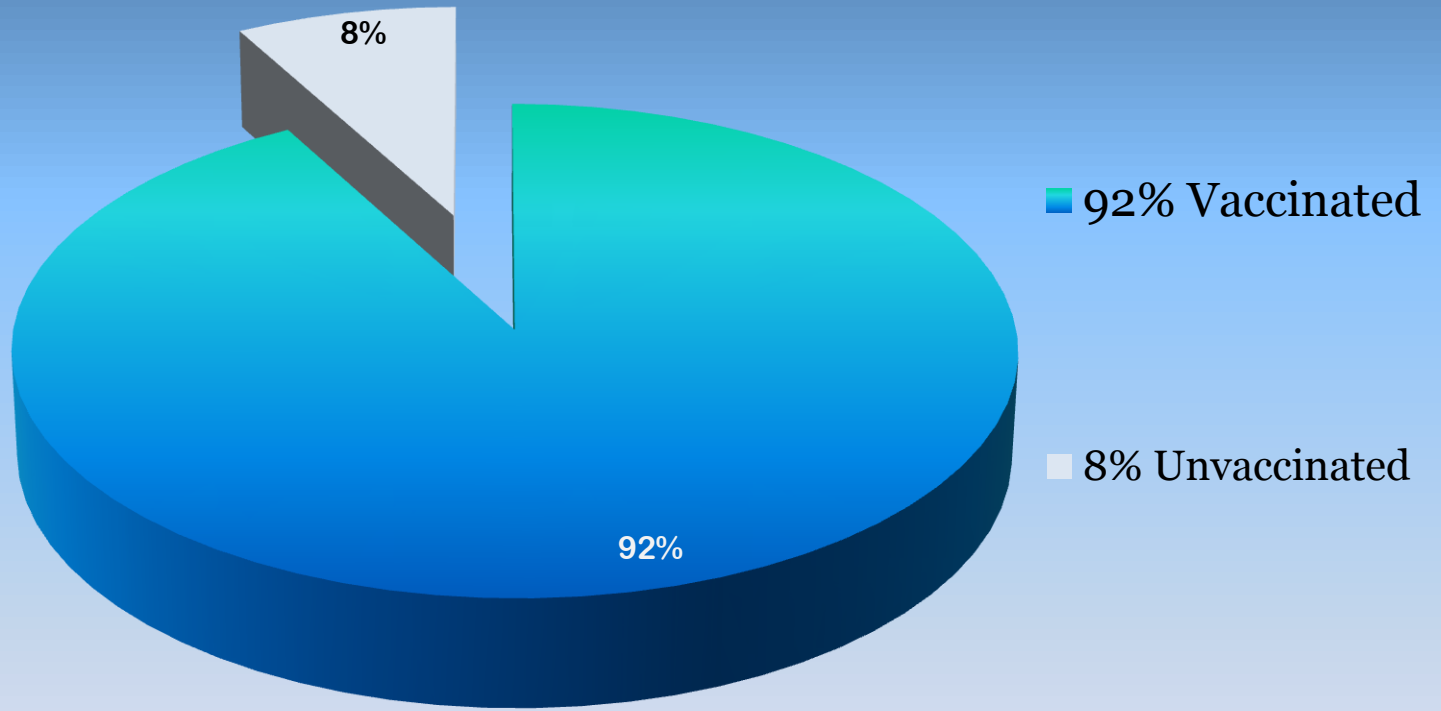
**0%**

**Effective**

**Source:** Double blind randomized controlled trial of BCG's effectiveness on 250,000 subjects Tuberculosis Research Centre (ICMR), Chennai, India: Indian Journal of Medical Research, 110, August 1999, pp. 56-69.

# Mumps Outbreak in Highly Vaccinated Population

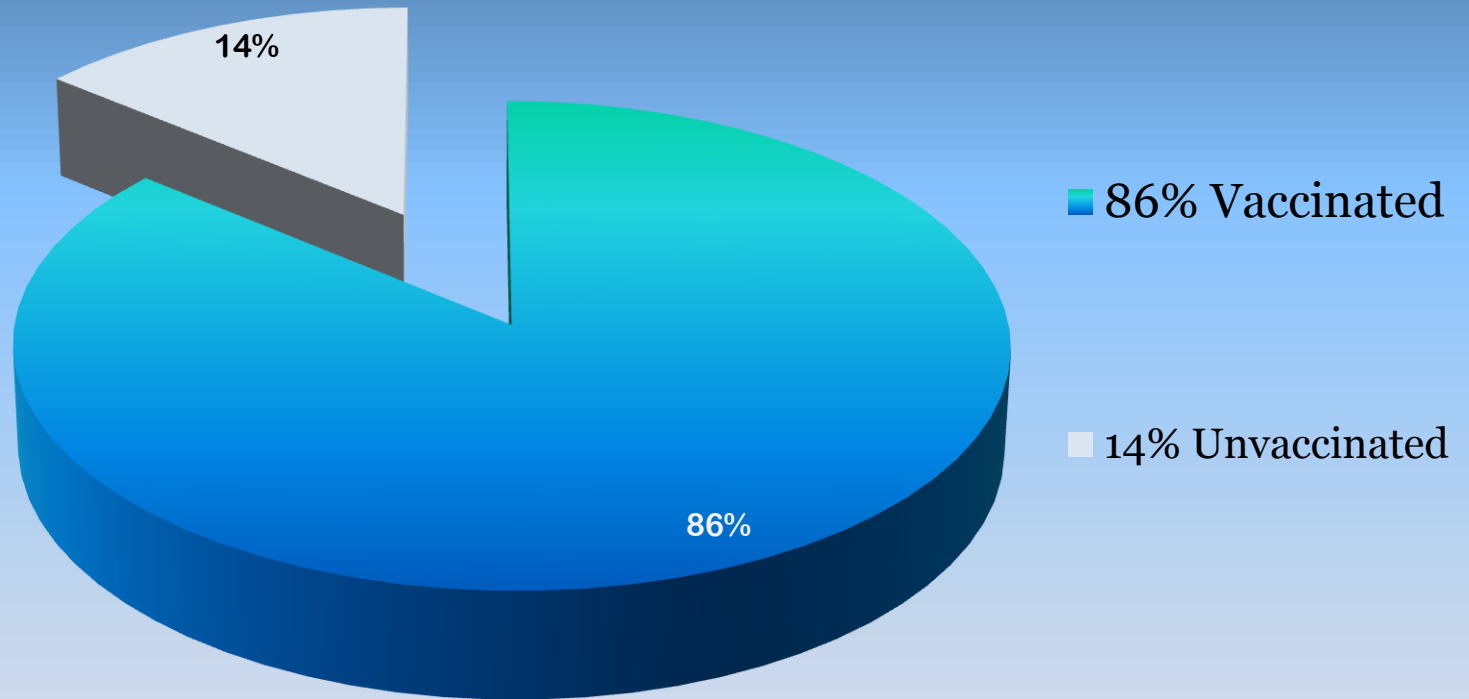
2006  
Iowa



Source: Center for Disease Control , MMWR 55 (20); May 26, 2006; pp. 559-63.

# Chickenpox Outbreak in Highly Vaccinated Population

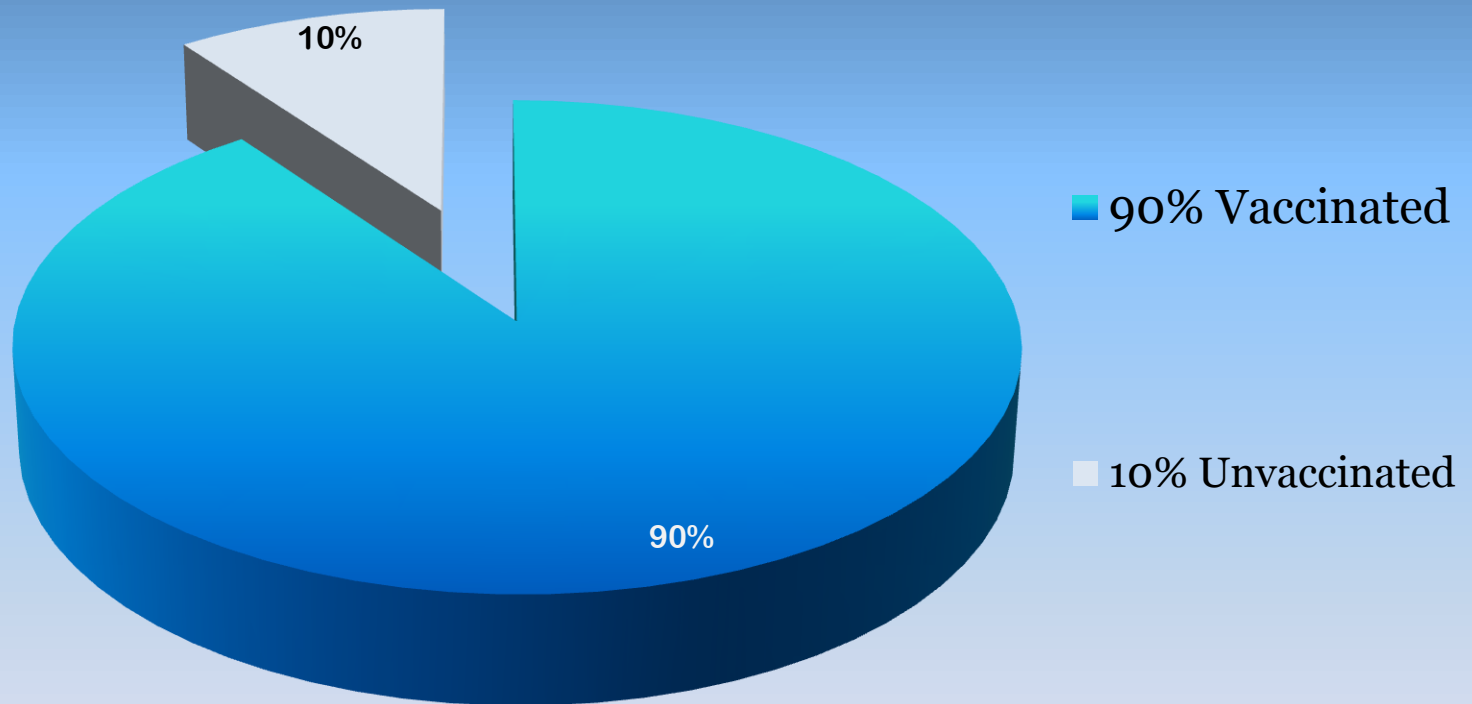
2001  
Oregon



Source: Pediatrics - Vol. 113; No. 3; pp. 455-459; (2004)

# Pertussis Outbreak in Highly Vaccinated Population

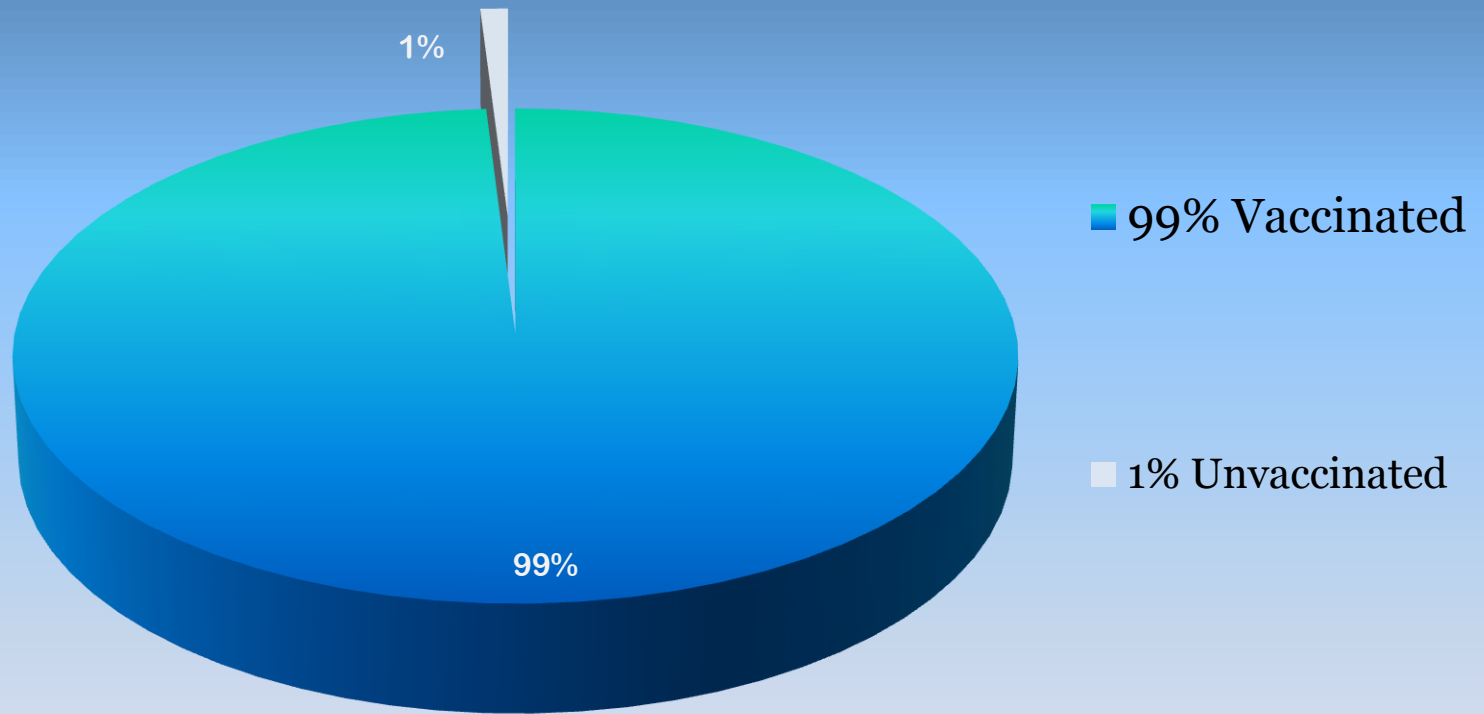
1993  
Ohio



Source: N.Z. Miller; *Vaccine Safety Manual*,  
N.A. Press, Sante Fe, New Mexico; p. 140; (2008)  
(Refers to CDC & Official Surveillance data)

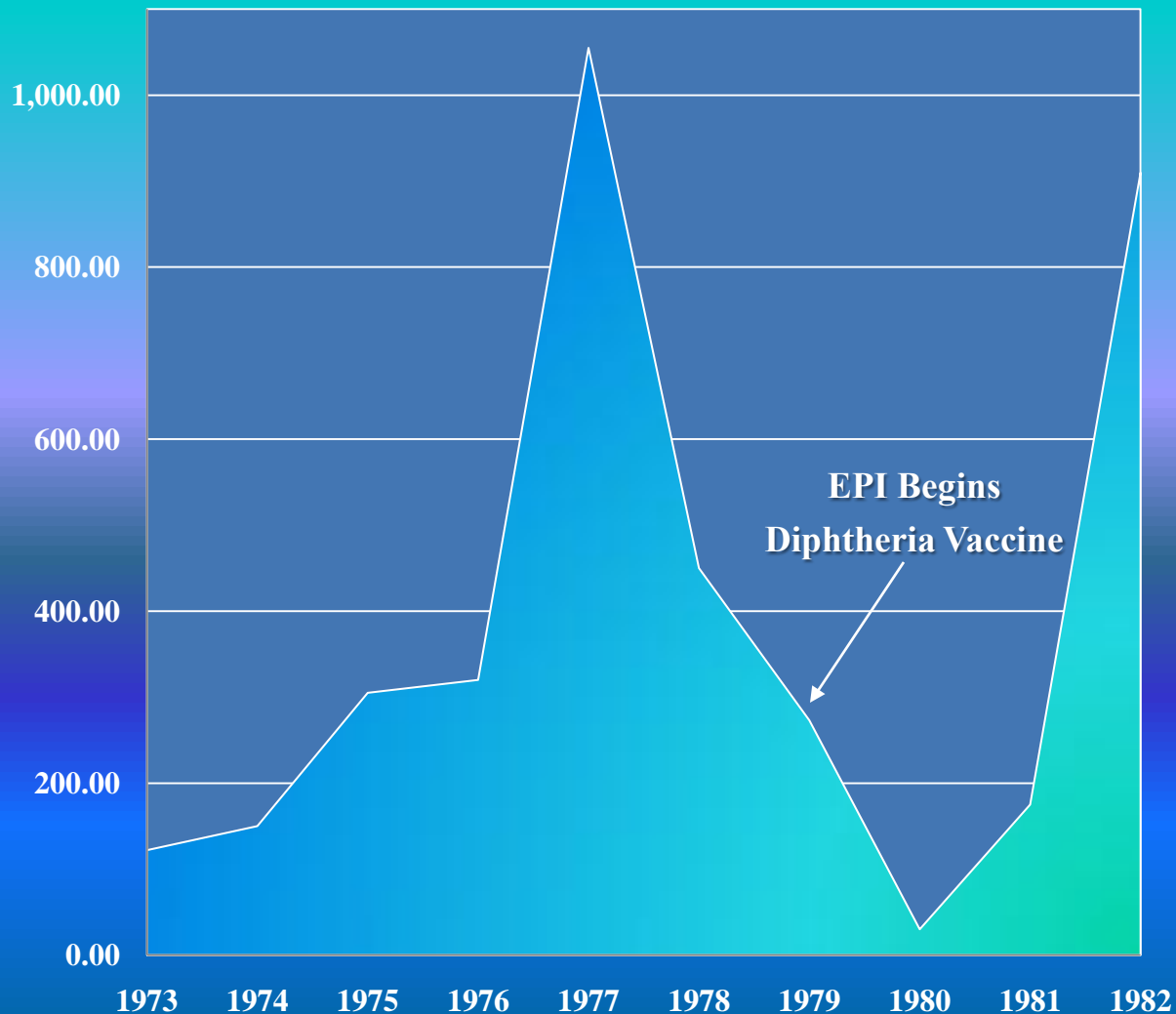
# Measles Outbreak in Highly Vaccinated Population

1985  
Texas



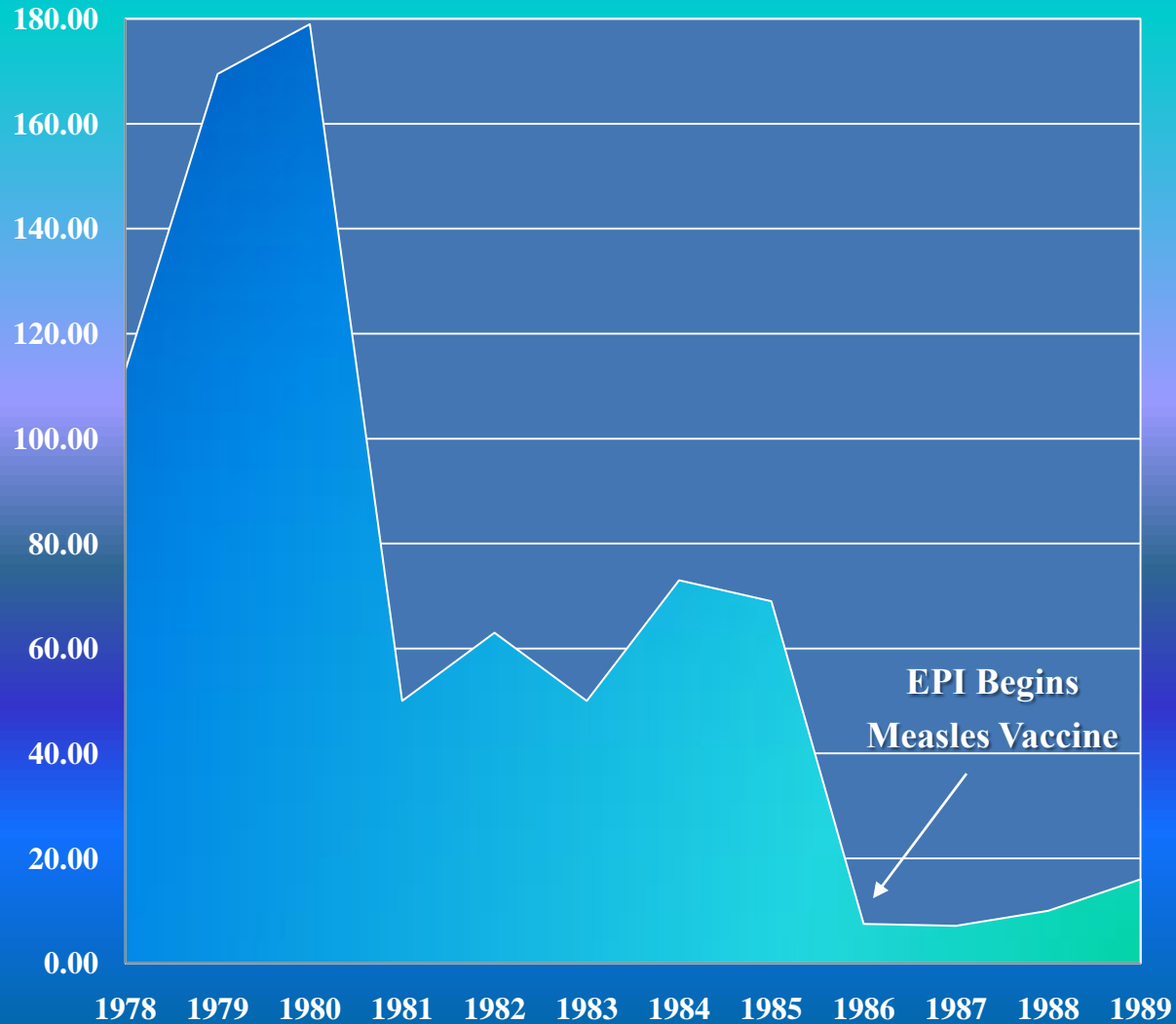
Source: New England Journal of Medicine -  
Vol. 316; No. 13; pp. 771-774; (1987)

**NIGERIA**  
***DIPHTHERIA REPORTED CASES***  
**(1973-1982)**



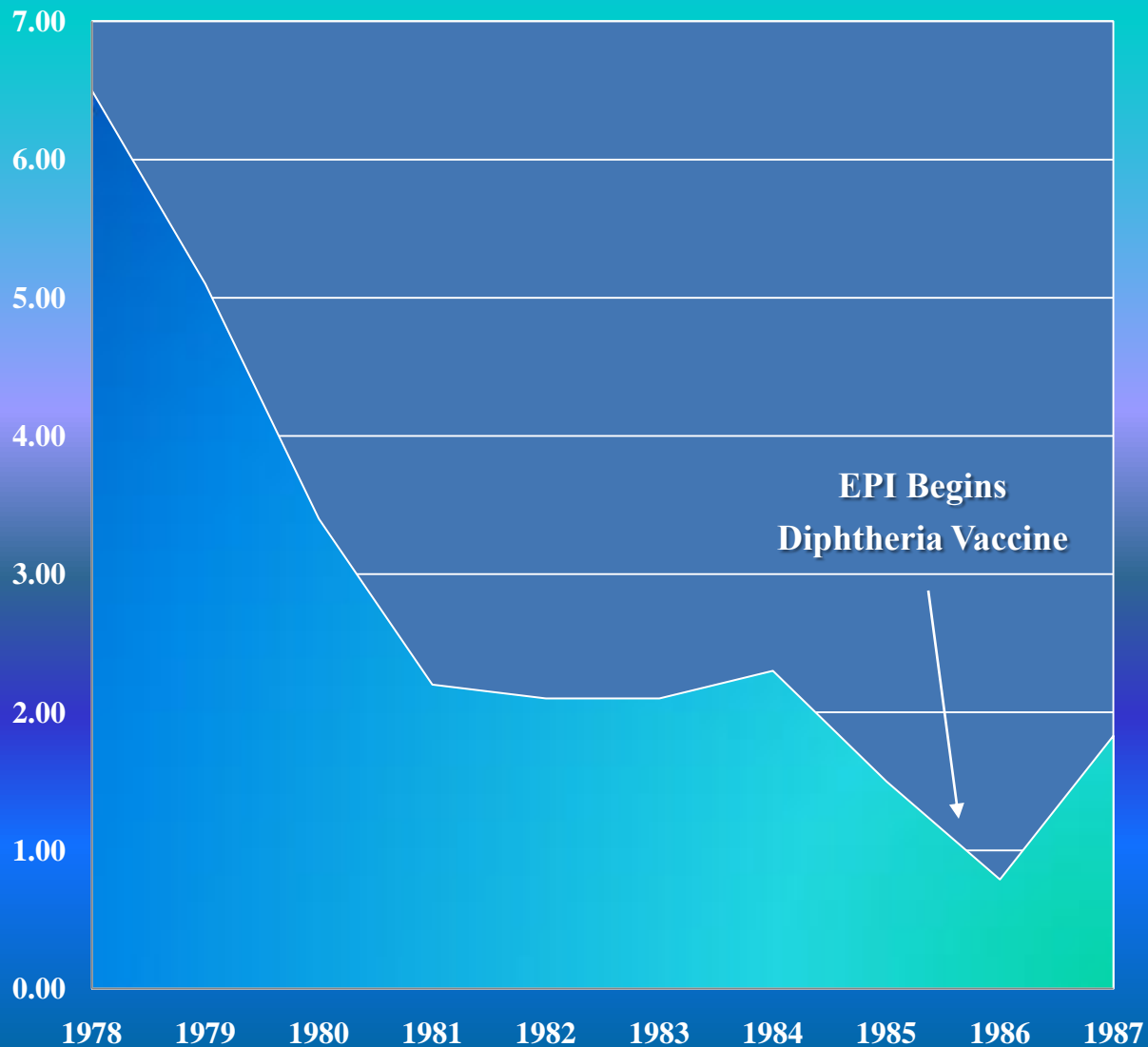
Source: E. Ekanem; A 10-Year Review of Morbidity from Childhood Preventable Diseases in Nigeria: How Successful is the Expanded Programme of Immunization (EPI)?; Journal of Tropical Pediatrics, Vol. 34; No. 6; UK; 1988; pp. 323-328.

**DOMINICAN REPUBLIC**  
***MEASLES CASE RATES PER 100,000***  
**(1978-1989)**



Sources: Data for years 1978-1987 Taken from UNICEF Evaluation Publication No. 6, Santo Domingo, Dominican Republic, May 27, 1988; and Data for years 1988-1989 from personal communication from PAHO, EPI Unit, Aug. 21, 1990.

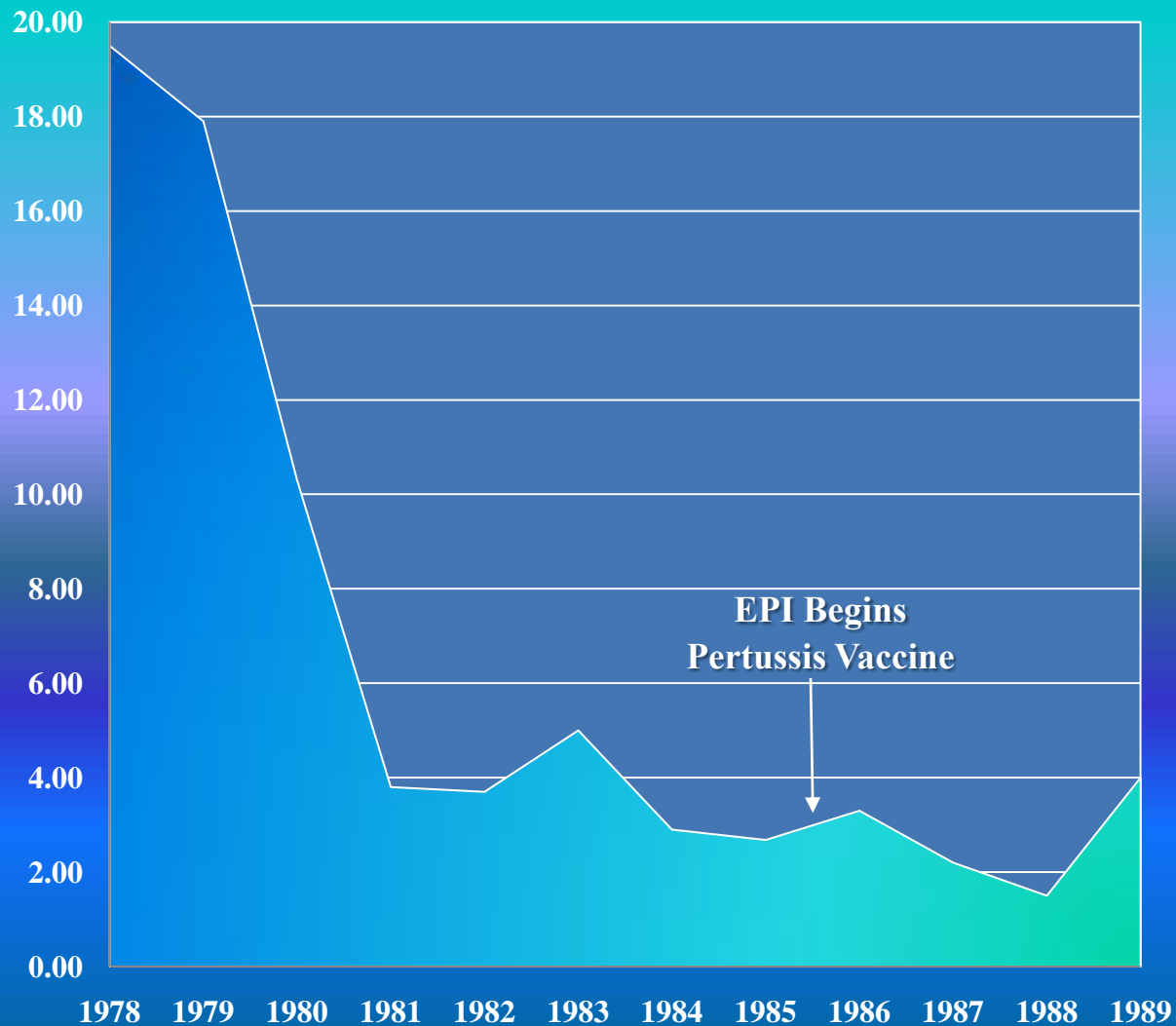
**DOMINICAN REPUBLIC**  
***DIPHTHERIA CASE RATES PER 100,000***  
**(1978-1987)**



Source: Data for years 1978-1987 Taken from UNICEF Evaluation Publication No. 6, Santo Domingo, Dominican Republic, May 27, 1988.

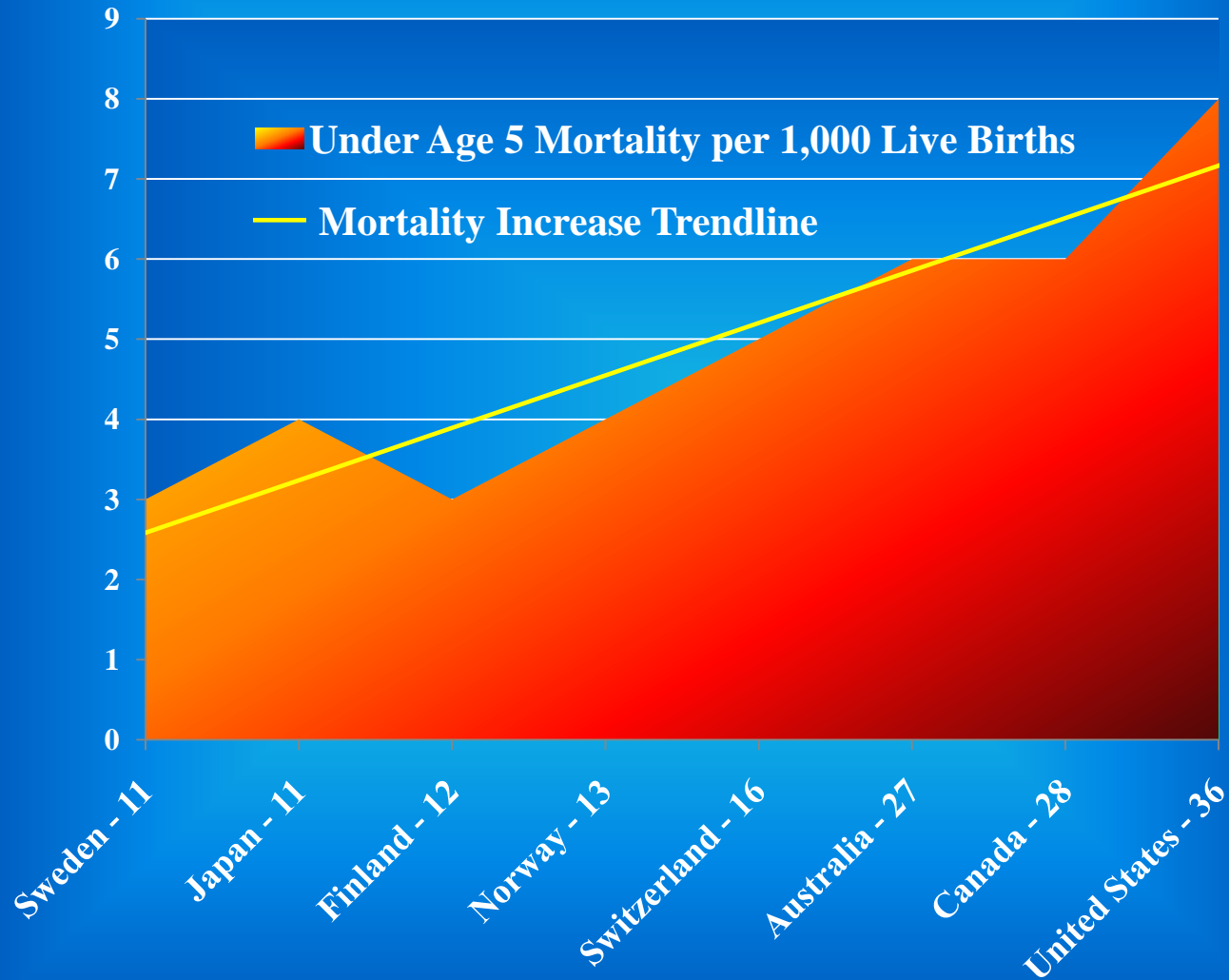


**DOMINICAN REPUBLIC**  
***PERTUSSIS CASE RATES PER 100,000***  
**(1978-1989)**



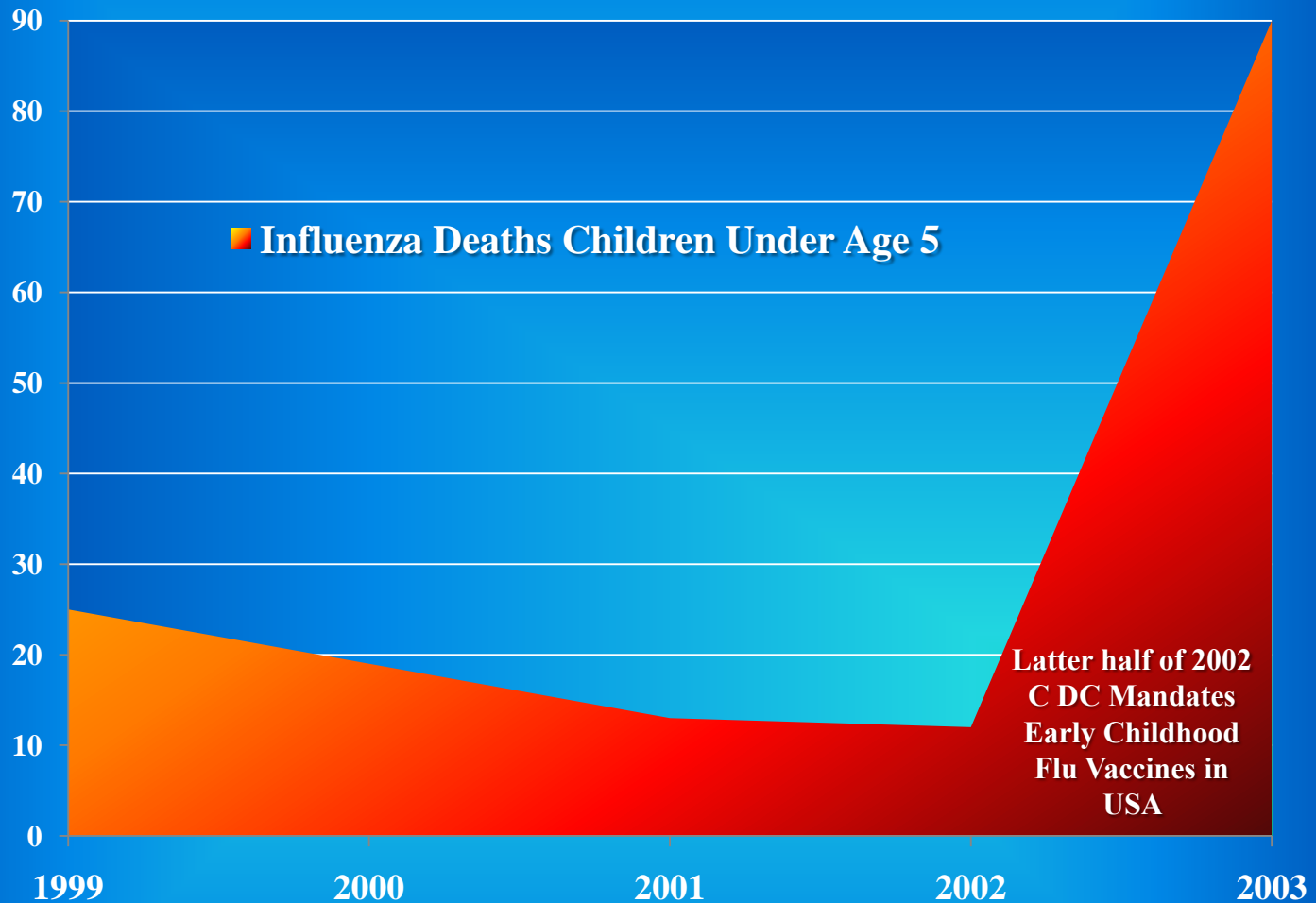
Sources: Data for years 1978-1987 Taken from UNICEF Evaluation Publication No. 6, Santo Domingo, Dominican Republic, May 27, 1988; and Data for years 1988-1989 from personal communication from PAHO, EPI Unit, Aug. 21, 1990.

## COUNTRIES & NUMBER OF VACCINE DOSES MANDATED TO AGE 5 *UNDER AGE 5 MORTALITY RATES FOR 2007*



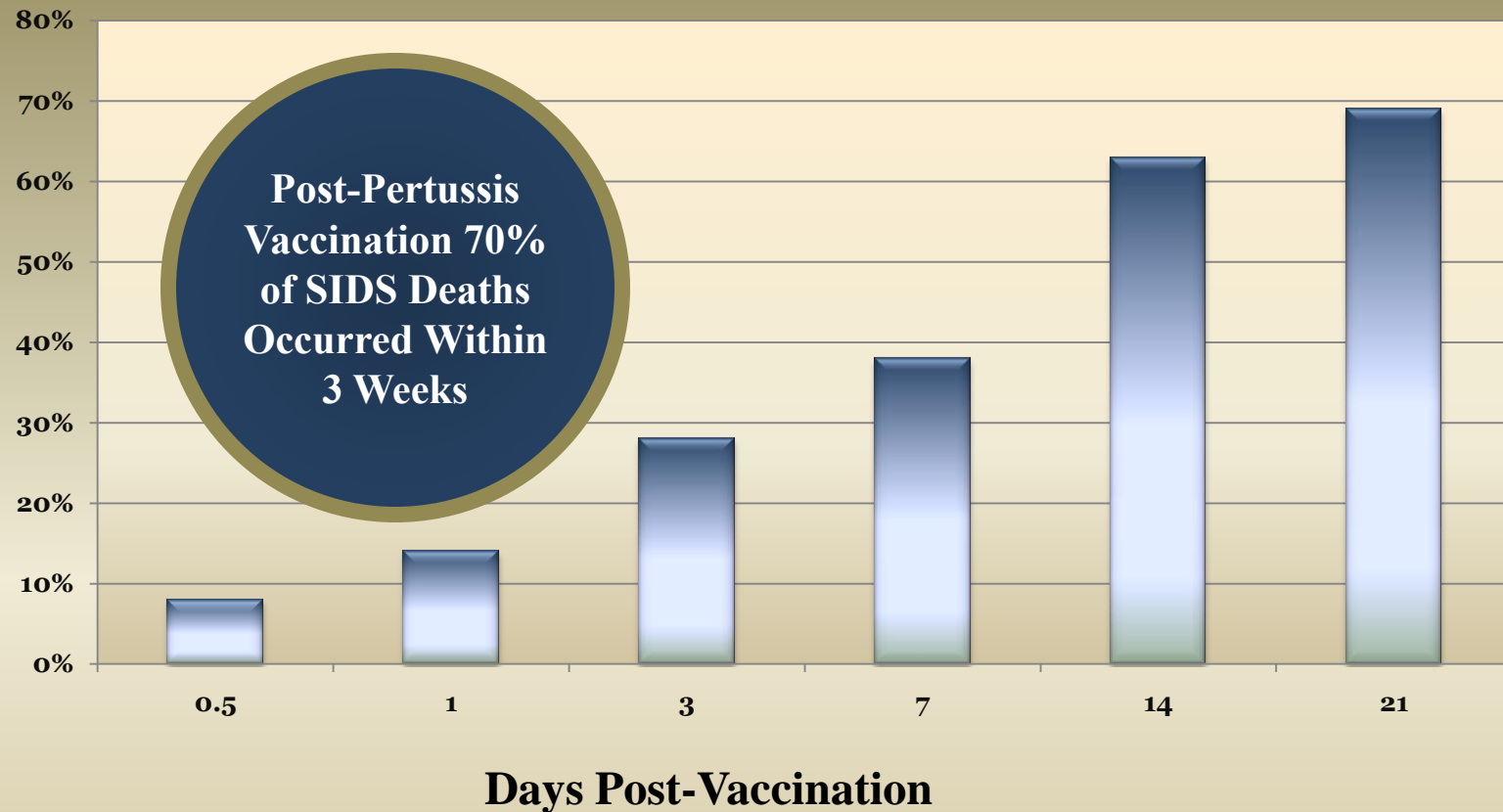
Under Age 5 Mortality statistics derived from: World Health Organization – World Health Statistics 2009 Report [http://www.who.int/whosis/whostat/EN\\_WHS09\\_Table1.pdf](http://www.who.int/whosis/whostat/EN_WHS09_Table1.pdf) & Govt. Mandated Vaccines figures derived from: Generation Rescue Inc. 2009 <http://www.generationrescue.org/documents/SPECIAL%20REPORT%20AUTISM%202.pdf>

# UNDER AGE 5 INFLUENZA DEATHS BEFORE & AFTER U.S. CDC MANDATES FLU VACCINES IN EARLY CHILDHOOD



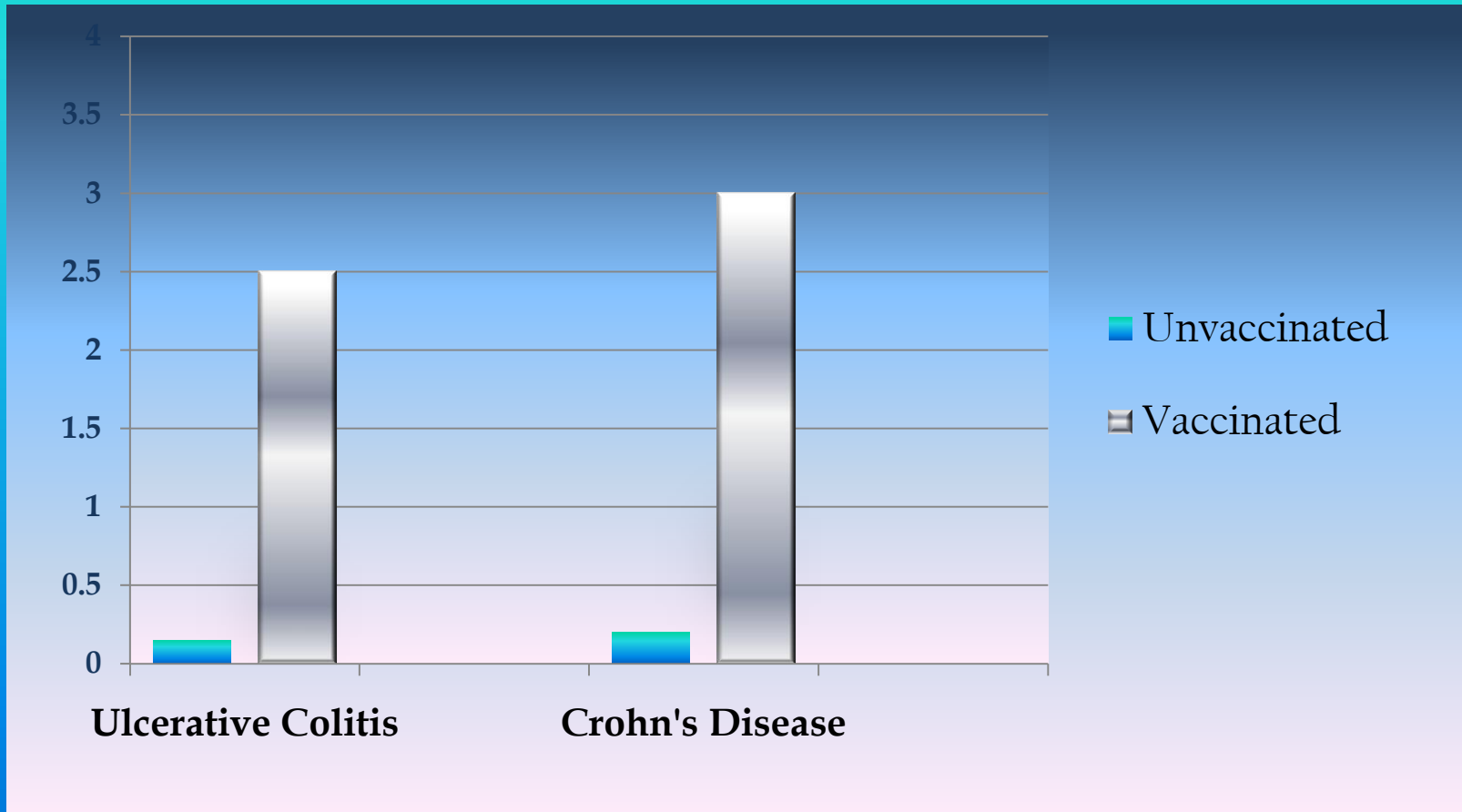
Under Age 5 Influenza Mortality statistics derived from: Center for Disease Control Vital Statistics Reports covering Years 1999-2003 reported in Miller, N.Z., Vaccine Safety Manual, New Atlantean Press, Sante Fe, New Mexico, 2008, p. 97.

## PERTUSSIS VACCINE & *SUDDEN INFANT DEATH SYNDROME*



2/3 of 103 infants had been vaccinated with pertussis prior to death, of which 6.5% died within 12 hours; 13% within 24 hours; 26% within 3 days; 37%, 61% & 70% within 1, 2, & 3 weeks respectively. Source: Torch W., Neurology - 32 (4 - Pt. 2) A, 1982, pp. 169-170.

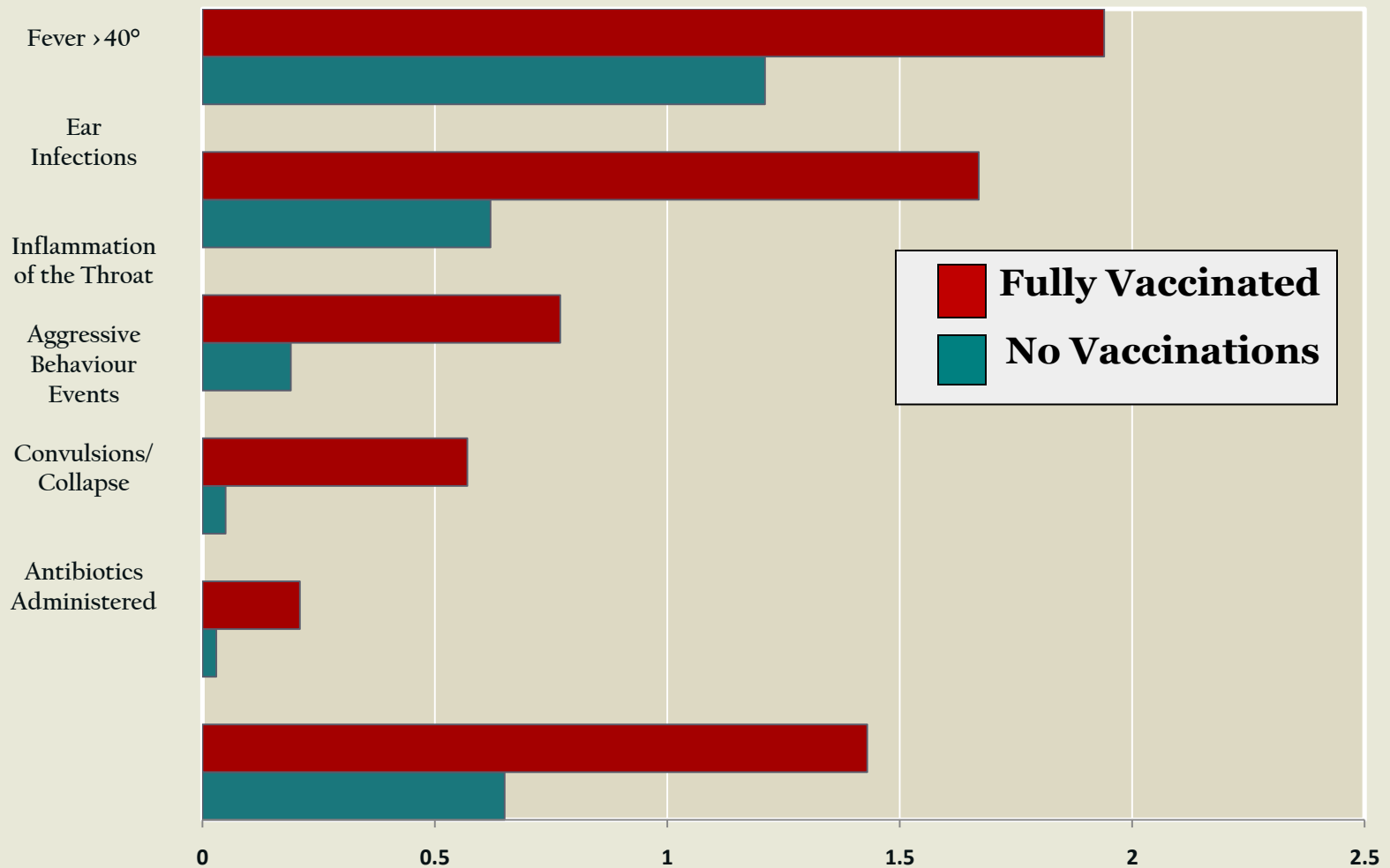
# Measles Vaccine & Inflammatory Bowel Diseases



Source: The Lancet - Vol. 345; 8957; 1995, pp. 1062-1063.

# Average Incidence First Five (5) years of Life

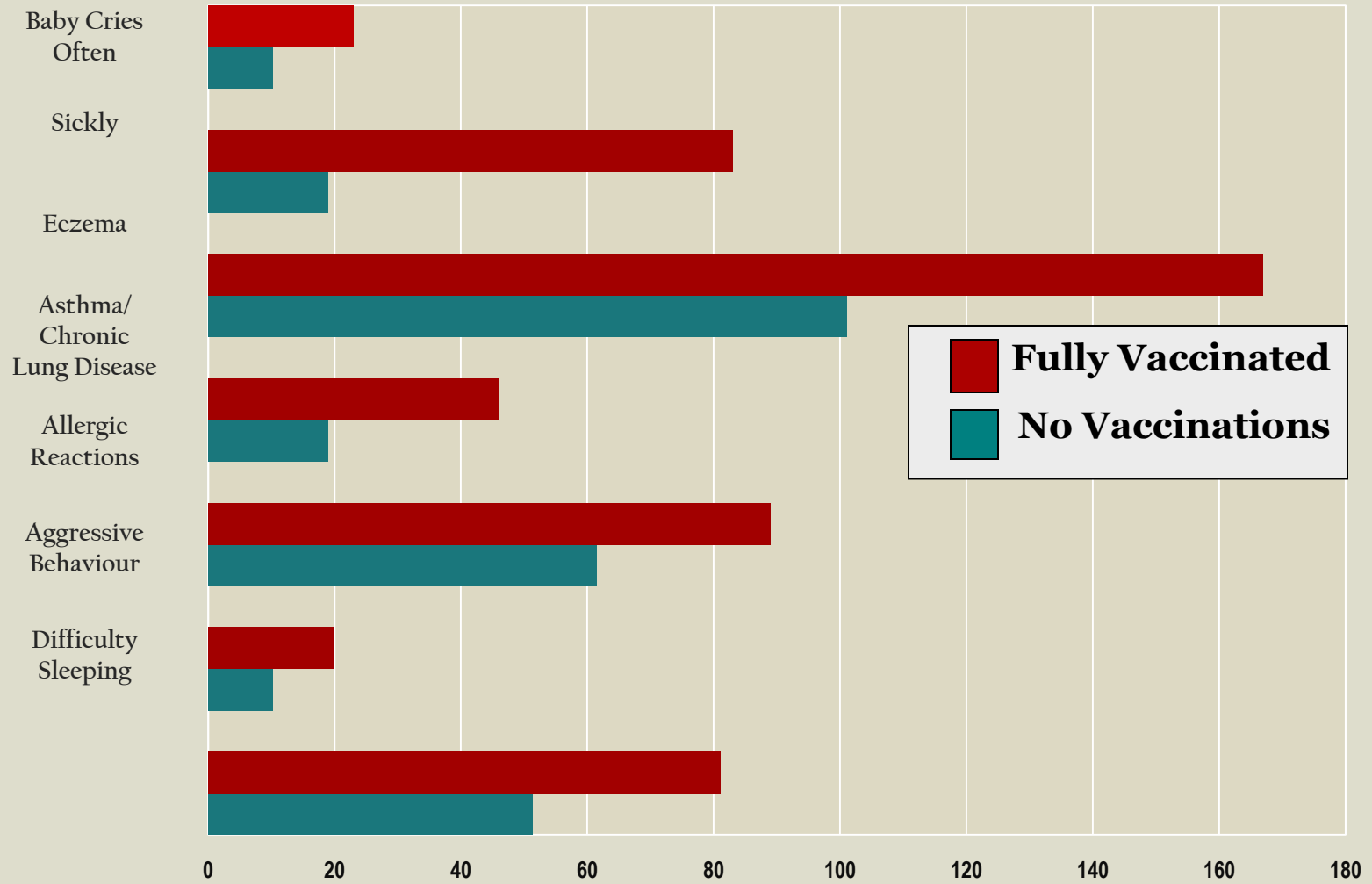
*Nederlands Vereniging Kritisch Prikken 2004 Survey Findings*



Average Incidence N = 543

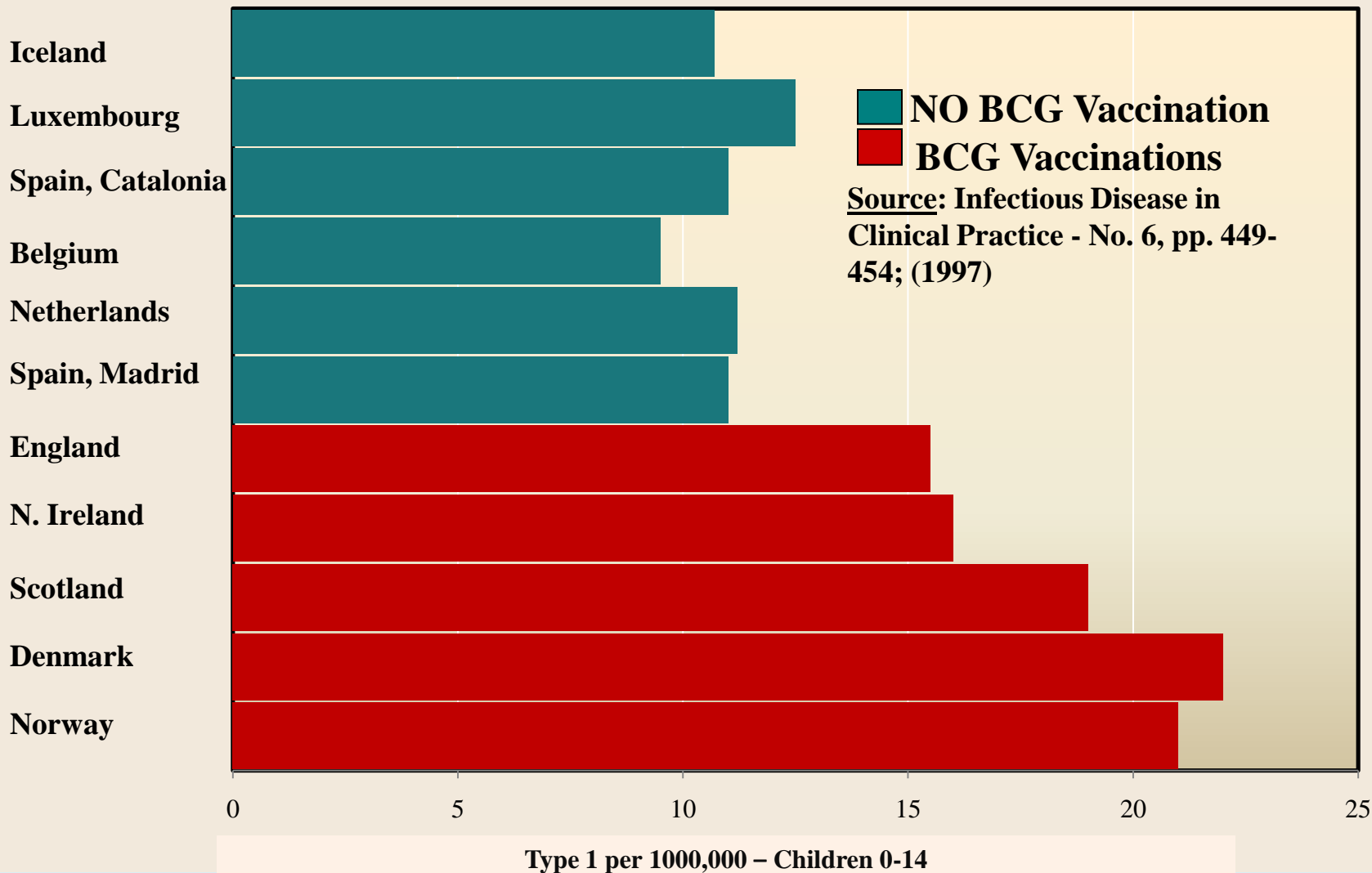
# Absolute Incidence N=543

*Nederlands Vereniging Kritisch Prikken 2004 Survey Findings*



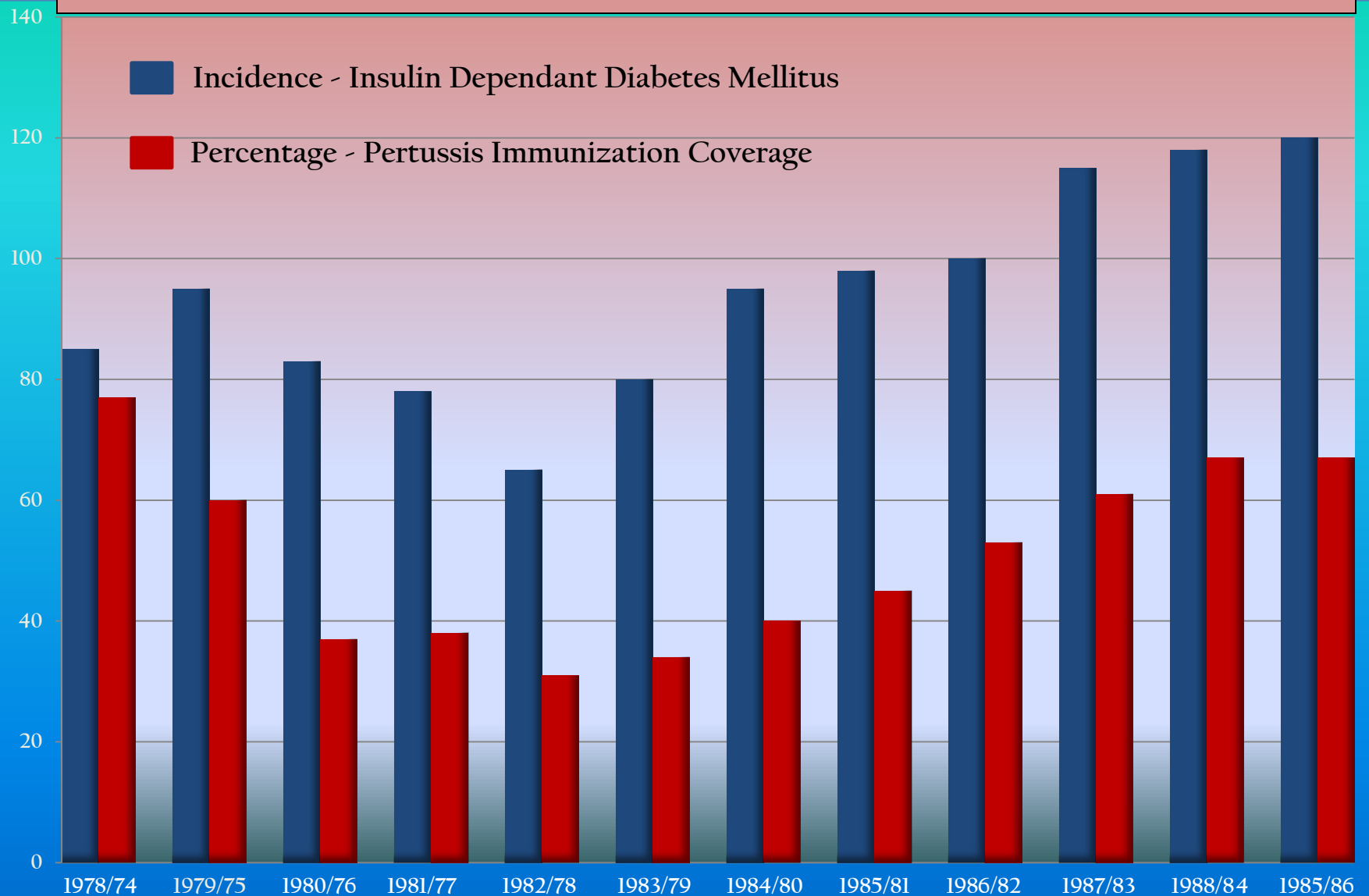
Absolute Incidence (Non-Vaccinated in Relation to Vaccinated to N = 312 Per Group)

# BCG Mandated in Schools & Diabetes Rates

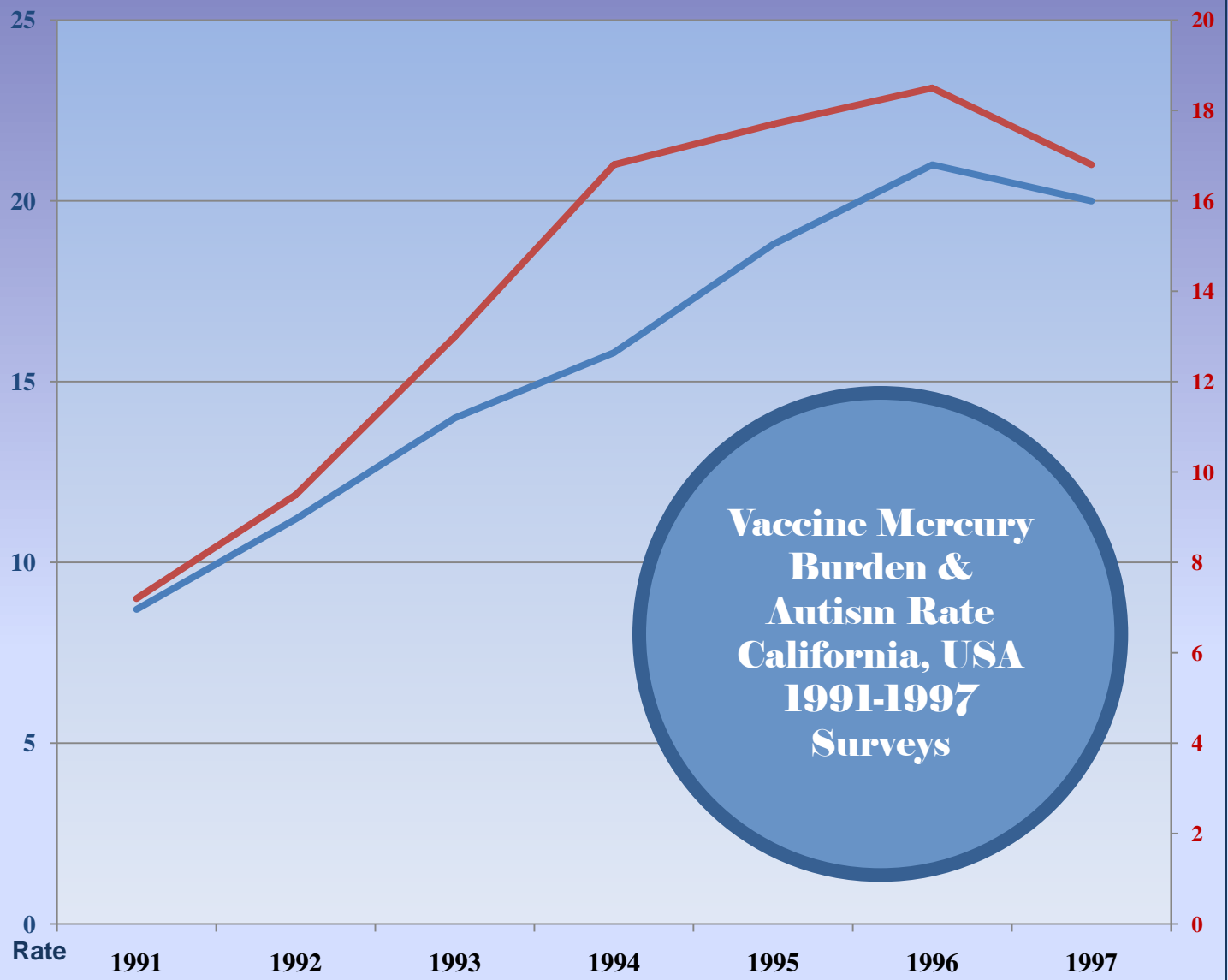




# Cumulative Incidence IDDM/1,000,000 UK



Source: Journal of Pediatric Endocrinology & Metabolism, 16, pp. 495-508; (2003)



**Vaccine Mercury  
Burden &  
Autism Rate  
California, USA  
1991-1997  
Surveys**

— Rate of Autism per 10,000

— Vaccine Mercury Exposure (x 10 = Micrograms)

# AT ONE MONTH OF AGE, HIGH MERCURY EXPOSURES RESULTED IN ELEVATED RELATIVE RISKS FOR SEVERAL NEUROLOGICAL DISORDERS, INCLUDING AUTISM

