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Vaccine efficacy (% decrease in incidence of different infectious disease) in the USA, as assessed by comparing maximum morbidity levels (before vaccine availability) and the levels some years after compulsory vaccination was introduced.

	<i>Before vaccination</i>		<i>After vaccination</i>		
	<i>No. of cases</i>	<i>Year</i>	<i>No. of cases in</i>		<i>% decrease in disease incidence*</i>
			<i>1992</i>	<i>1996</i>	
Diphtheria	206,919	1921 (1942)**	4	1	99.99
Measles	894,134	1941 (1963)	2,237	500	99.95
Mumps	152,209	1968 (1971)	2,572	600	99.60
Rubella	57,686	1969 (1971)	160	210	99.64
Pertussis	265,269	1934 (1945)	4,083	6,400	97.6
Polio (paralytic)	21,269	1952 (1952)	4	0	100.00
(total)	57,879				
Haemophilus influenzae type b (Hib)	20,000	1984 (1987)	1,412	1,065	94.68

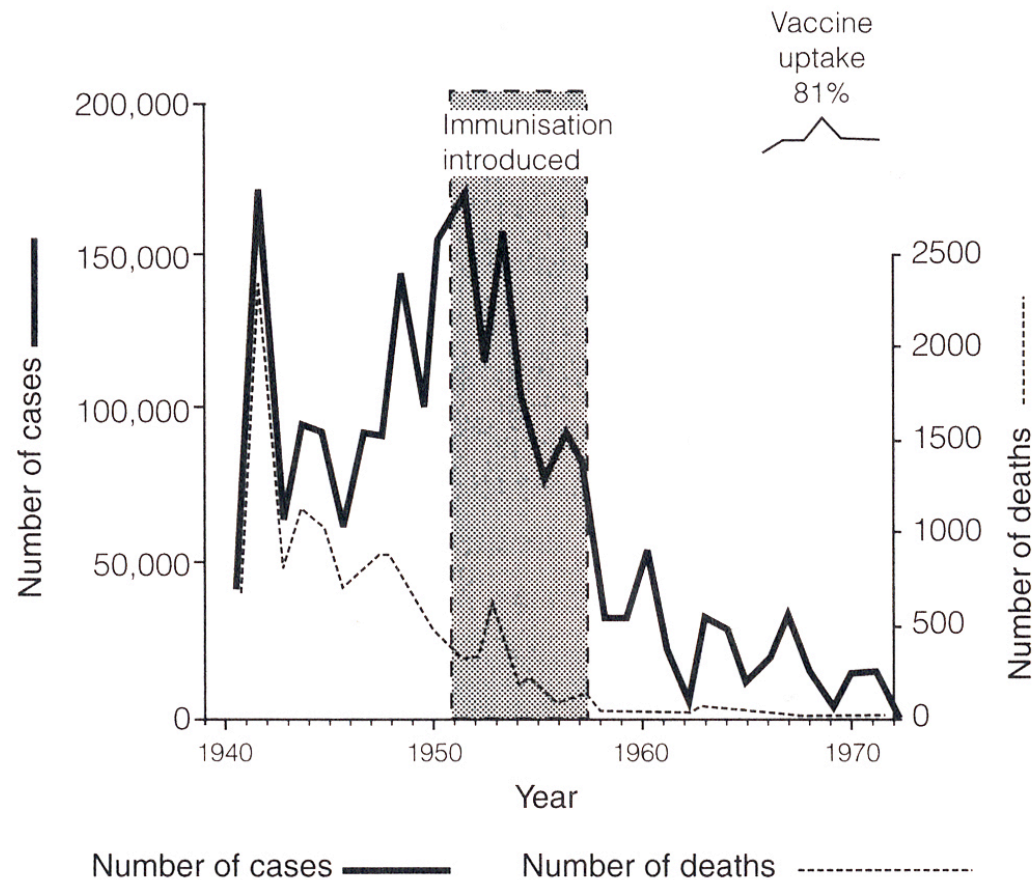
*Data kindly supplied by Drs W. Orenstein and R. Bernstein, Centers for Disease Control and Prevention, Atlanta.*

\* Calculation based on 1996 figures.

\*\* Dates in parenthesis indicate the year the vaccine was generally introduced. MMR vaccine was introduced in 1971. IPV (Salk) vaccine was introduced in 1952 and OPV (Sabin) vaccine in 1963.

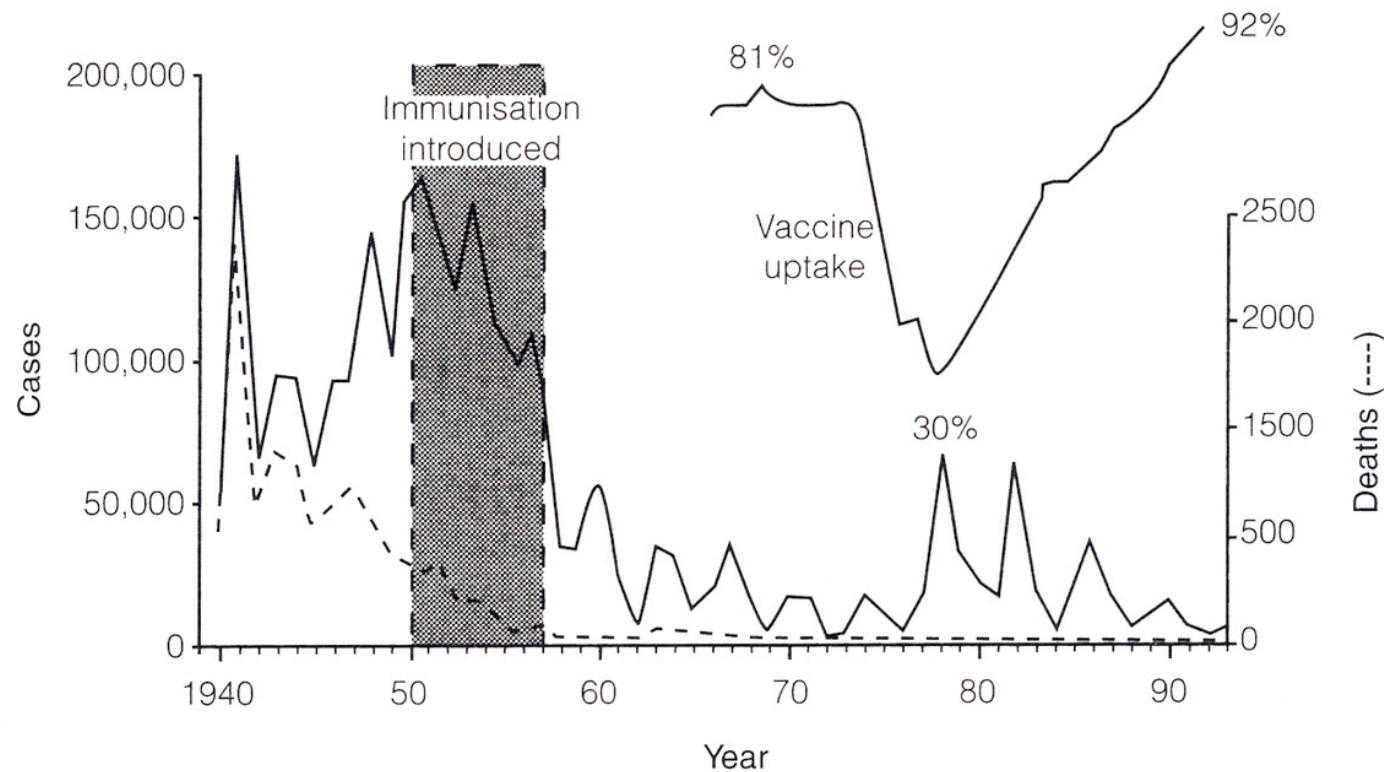
Source: Vaccination, the facts, the fear, the future. G Ada & D Isaacs, 2000.

Whooping cough notifications; cases and deaths in England and Wales from 1940 to 1973. Mass immunisation was introduced during 1950-1957.



Source: Vaccination, the facts, the fear, the future. G Ada & D Isaacs, 2000.

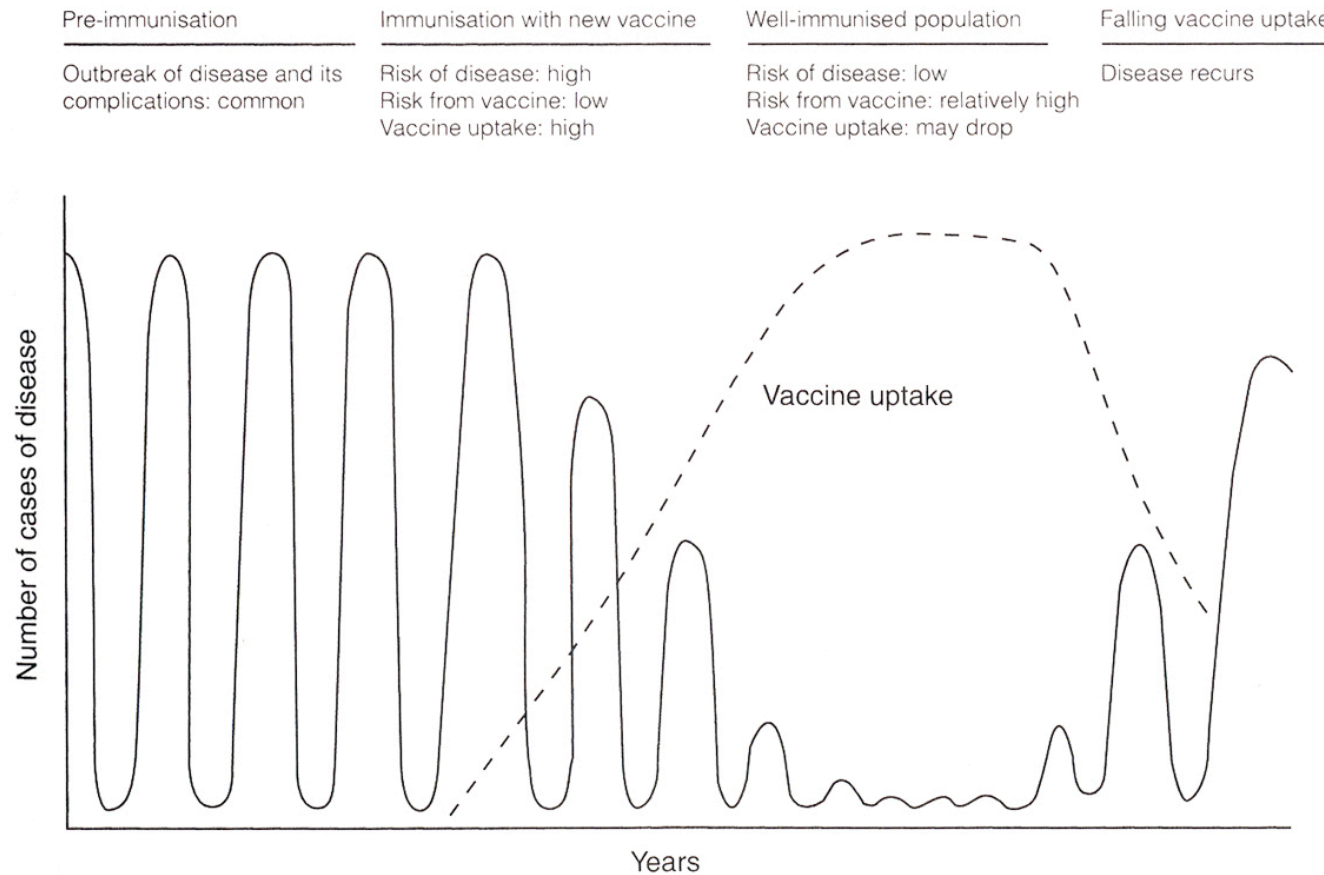
## Whooping cough notifications: deaths in England and Wales from 1940 through 1993.



Permission to reproduce this graph in this book was obtained from the Office of National Statistics, 1 Drummond Gate, London

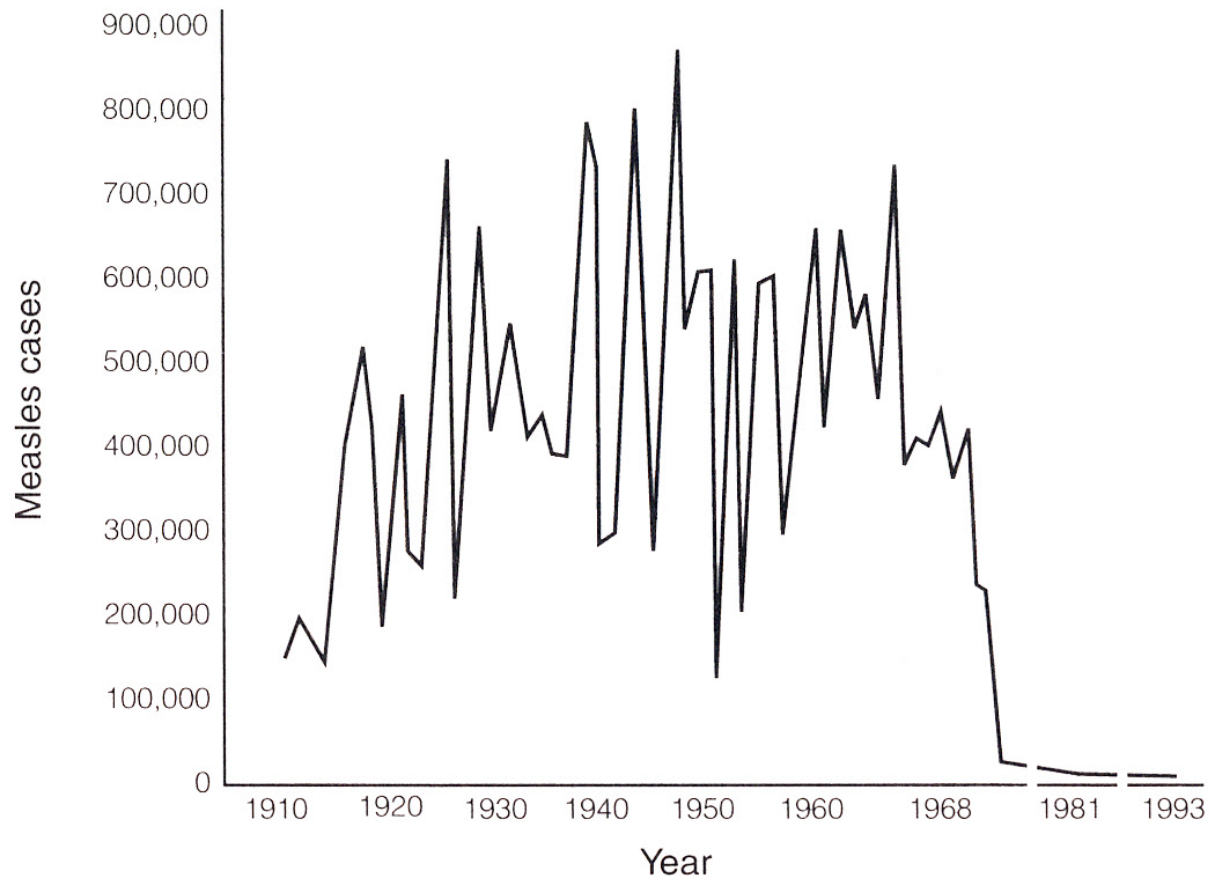
Source: Vaccination, the facts, the fear, the future. G Ada & D Isaacs, 2000.

# Theoretical timetable of vaccine uptake and disease rates after introduction of a new vaccine, and the likely recurrence of disease if vaccine uptake subsequently declines.



Source: Vaccination, the facts, the fear, the future. G Ada & D Isaacs, 2000.

Reported cases of measles each year in the USA from 1912 to 1966, and at three times after 1966. Mass immunisation against measles was initiated in 1963.



Source: Vaccination, the facts, the fear, the future. G Ada & D Isaacs, 2000.