

Reduction of Cases and Deaths of Vaccine-Preventable Diseases in the United States after the Introduction of the Vaccine – by Max Roser

		Cases All post-vaccine cases refer to 2006	Deaths All post-vaccine death refer to 2004	hs
Diphtheria	Pre-vaccine: 158 cases per million per year (1936-45)	100% Reduction Post-vaccine: 0 cases per million per year	Pre-vaccine: 13.7 deaths per million per year (1936-45) 100% Reduction Post-vaccine: 0 death per million per year	hs
Measles	Pre-vaccine: 3044 cases per million per year (1953-62)	99,99% Reduction Post-vaccine: 0.2 cases per million per year	Pre-vaccine: 2.5 deaths per million per year (1953-62) 100% Reduction Post-vaccine: 0 death per million per year	hs
Mumps	Pre-vaccine: 830 cases per million per year (1963-68)	97.4% Reduction Post-vaccine: 22 cases per million per year	Pre-vaccine: 0.2 deaths per million per year (1963-68) 100% Reduction Post-vaccine: 0 death per million per year	hs
Pertussis	Pre-vaccine: 1534 cases per million per year (1934-43)	96.6% Reduction Post-vaccine: 52 cases per million per year	Pre-vaccine: 30.8 deaths per million per year (1934-43) 99.7% Reduction Post-vaccine: 0.09 deaths per million per year	aths
Acute Poliomyeltis	Pre-vaccine: 141 cases per million per year (1941-50)	100% Reduction Post-vaccine: 0 cases per million per year	Pre-vaccine: 10 deaths per million per year (1941-50) 100% Reduction Post-vaccine: 0 death per million per year	hs
Paralytic Poliomyeltis	Pre-vaccine: 103 cases per million per year (1951-54)	100% Reduction Post-vaccine: 0 cases per million per year	Pre-vaccine: 11.8 deaths per million per year (1951-54) 100% Reduction Post-vaccine: 0 death per million per year	hs
Rubella	Pre-vaccine: 242 cases per million per year (1966-68)	99.98% Reduction Post-vaccine: 0.04 cases per million per year	Pre-vaccine: 0.09 deaths per million per year (1966-68) 100% Reduction Post-vaccine: 0 death per million per year	hs
Congenital Rubella Syndro	Pre-vaccine: 0.76 cases per million per year (1966-69)	99.6% Reduction Post-vaccine: 0.003 cases per million per year	Pre-vaccine: no data (1966-69) data Post-vaccine: 0 death per million per year	hs
Smallpox	Pre-vaccine: 250 cases per million per year (1900-49)	100% Reduction Post-vaccine: 0 cases per million per year	Pre-vaccine: 2.9 deaths per million per year (1900-49) 100% Reduction Post-vaccine: 0 death per million per year	hs
Tetanus	Pre-vaccine: 4 cases per million per year (1947-49)	96.6% Reduction Post-vaccine: 0.14 cases per million per year	Pre-vaccine: 3.2 deaths per million per year (1947-49) 99.6% Reduction Post-vaccine: 0.01 de per million per year	
Hepatitis A	Pre-vaccine: 465 cases per million per year (1986-95)	89% Reduction Post-vaccine: 51 cases per million per year	Pre-vaccine: 0.5 deaths per million per year (1986-95) 88.7% Reduction Post-vaccine: 0.06 de per million per year	
Acute Hepatitis B	Pre-vaccine: 273 cases per million per year (1982-91)	83.9% Reduction Post-vaccine: 44 cases per million per year	Pre-vaccine: 1 death per million per year (1982-91) 83.6% Reduction Post-vaccine: 0.16 de per million per year	
Haemophilus Influenza type b	Pre-vaccine: 84 cases per million per year (1980s)	99.8% Reduction Post-vaccine: 0.17 cases per million per year	Pre-vaccine: no data 100 (1980s) Contact a per million per year	
Pneumococca Disease	Pre-vaccine: 233 cases per million per year (1997-99)	40.5% Reduction Post-vaccine: 139 cases per million per year	Pre-vaccine: 24 deaths per million per year (1997-99) 31.3% Reduction Post-vaccine: 16.5 de per million per year	

Data source: Roush and Murphy (2007) - Historical comparisons of morbidity and mortality for vaccine-preventable diseases in the United States.

87.2% Reduction

Pre-vaccine: 16018 cases

per million per year

(1990-94)

Varicella

Post-vaccine: 0.06 deaths

per million per year

84.3% Reduction

Pre-vaccine: 0.41 deaths

per million per year

Post-vaccine: 2046 cases

per million per year

(1990-94)