

How cost-effective is childhood immunization?

For one birth cohort of 4.2 million

Benefit to cost ratio

Direct costs only:

3.0

Total societal costs:

10.1

Disease	Cases Prevented	Deaths Prevented	Direct Costs Saved, Million \$	Societal Costs Saved (Direct + Indirect), Million \$
Diphtheria	275 028	27 503	3654	39 296
Tetanus	169	25	12	45
Pertussis	2 950 836	1062	4443	7017
Hib	19 606	741	1810	3756
Polio	67 463	800	2898	7259
Measles	3 835 825	3106	3762	8862
Mumps	2 312 275	12	1411	2374
Rubella	1 981 066	15	187	721
Congenital rubella syndrome	632	70	133	257
HepB	239 993	3514	240	1770
Varicella	3 942 546	73	373	1598
HepA	153 164	36	52	114
Pneumococcus-related diseases ^b	2 323 952	5056	965	2696
Rota	1 582 940	19	327	595
Total	19 685 495	42 032	20 267	76 360

DEATHS

THAT'S \$20 BILLION and \$76 BILLION!

Zhou F et al. Economic Evaluation of the Routine Childhood Immunization Program in the US, 2009. Pediatrics, 2014. 133:577.