



Worldwide risk: Disease vs. Vaccine

Measles	MMR vaccine
Otitis media, 1 in 10 cases	Fever, Rash, malaise
Pneumonia, 1 in 20 cases	Febrile seizures, 1 in 3000
Severe CNS involvement, 1 in 800 SSPE, 1 in 100,000	Encephalitis or severe allergic reaction, fewer than 1 in a million
Diphtheria, tetanus, pertussis	DTP vaccine
Tetanus and diphtheria Death, 1 in 20	Continuous crying, full recovery, < 1 in 1,000; seizures or shock with full recovery, 1 in 2,000
Pertussis Pneumonia, 1 in 8 Encephalopathy, 1 in 20 Death, 1 in 20	Acute encephalopathy, 0 to 10 in 1 million Death, none proven
Varicella (prevaccine)	Varicella vaccine
4 million cases/year	86 % to 100% effective in preventing moderate to severe disease
Complications, 1 in 50	45% to 90% effective in preventing an form of varicella
Hospitalizations, 10,000/year	Encephalitis, none
Deaths, 100/year	None Reported

MMR = measles, mumps, rubella
CNS = central nervous system

SSPE = subacute sclerosing panencephalitis
DTP = diphtheria, tetanus, pertussis

Source: Domachowske J. Adapted from information in package inserts for each vaccine, the AAP 2003 Red Book, the CDC, and Feign and Cherry's Textbook of Pediatric Infectious Diseases.