Smallpox

Smallpox was an <u>infectious disease</u> caused by one of two <u>virus</u> variants, *variola major* and *variola minor*.^[7] The last naturally occurring case was diagnosed in October 1977 and the <u>World Health Organization</u> (WHO) certified the <u>global eradication</u> of the disease in 1980.^[10] The risk of death following contracting the disease was about 30%, with higher rates among babies.^{[6][11]} Often those who survived had extensive scarring of their skin and some were left blind.^[6]

The initial symptoms of the disease included <u>fever</u> and vomiting.^[5] This was followed by formation of <u>sores</u> in the mouth and a <u>skin rash</u>.^[5] Over a number of days the skin rash turned into characteristic fluid filled <u>bumps</u> with a dent in the center.^[5] The bumps then <u>scabbed</u> over and fell off leaving <u>scars</u>.^[5] The disease used to spread between people or via contaminated objects.^{[6][12]} Prevention was by the <u>smallpox vaccine</u>.^[9] Once the disease had developed certain <u>antiviral</u> medication may have helped.^[9]

The origin of smallpox is unknown.^[13] The earliest evidence of the disease dates back to the 3rd century BC in Egyptian mummies.^[13] The disease historically occurred in outbreaks.^[10] In 18th century Europe it is estimated 400,000 people per year died from the disease, and one-third of the cases resulted in blindness.^{[10][14]} These deaths included those of four reigning monarchs and a queen consort.^{[10][14]} In the 20th century it is estimated that smallpox resulted in 300–500 million deaths.^{[12][15][16]} As recently as 1967, 15 million cases occurred a year.^[10]

Edward Jenner discovered in 1798 that vaccination could prevent smallpox. [10] In 1967, the WHO intensified efforts to eliminate the disease. [10] Smallpox is one of two infectious diseases to have been eradicated, the other being rinderpest in 2011. [17][18] The term "smallpox" was first used in Britain in the 15th century to distinguish the disease from syphilis, which was then known as the "great pox". [19] Other historical names for the disease include pox, speckled monster, and red plague. [3][4][19]

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Classification

Signs and symptoms

Smallpox

Synonyms

Variola, $^{[1]}$ variola vera, $^{[2]}$ pox, $^{[3]}$ red plague $^{[4]}$



A child with smallpox in Bangladesh in 1973. Note the characteristic bumps filled with thick fluid and a depression or dimple in the center.

Specialty	Infectious disease
Symptoms	Early : Fever, vomiting, mouth sores ^[5]
	Later : Fluid filled blisters which scab over $^{[5]}$
Complications	Scarring of the skin, blindness ^[6]
Usual onset	1 to 3 weeks following exposure ^[5]
Duration	About 4 weeks ^[5]
Causes	Variola major, Variola minor (spread between people) ^{[6][7]}
Diagnostic	Based on symptoms and