

Polio... it can be eradicated

Polio is a highly infectious disease caused by a virus. It invades the nervous system and can cause paralysis in a matter of hours. It can strike at any age, but affects mainly children under five.

The beginning 3,000 BC

Ancient history

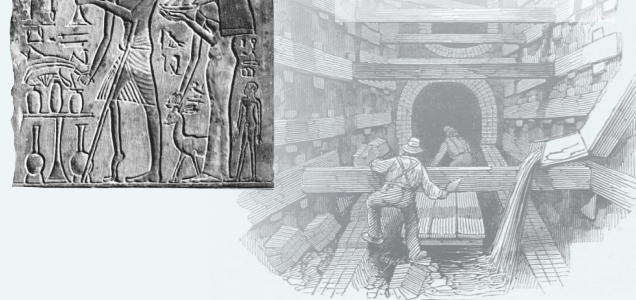
Ancient Egyptian paintings and carvings depict otherwise healthy people with withered limbs and young children walking with canes.



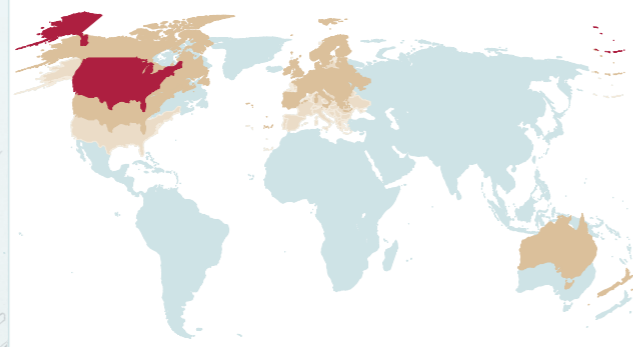
19th century ca. 1900

Late 1800s–early 1900s

Poor sanitation meant infants were constantly exposed to the virus, enhancing natural immunity. In the late 1800s to early 1900s, however, improved community sanitation reduced childhood exposure and immunity, leading to an increased number of children and adults at risk of paralytic polio infection.



The outbreaks 1900–1952



1900s

Small, localized paralytic polio epidemics in Europe and the United States.

By 1950s

Outbreaks reach pandemic proportions in Europe, North America, Australia, and New Zealand.

1952

Worst polio outbreak in the United States: 658,000 reported cases of which 3,145 died and 21,269 had mild to disabling paralysis.

The vaccine 1954–1970s



1954

Jonas Salk develops first vaccine against polio—an injected inactivated polio vaccine (IPV).

1962

Albert Sabin develops a “live” oral polio vaccine (OPV), which becomes the vaccine of choice for most national immunization programs worldwide because it is easy to administer.

With OPV, polio is brought under control in industrialized countries.

1970s

Launch of national immunization programs using OPV worldwide, which leads to control of the disease in many developing countries.



Push for eradication 1980s – onwards

1988

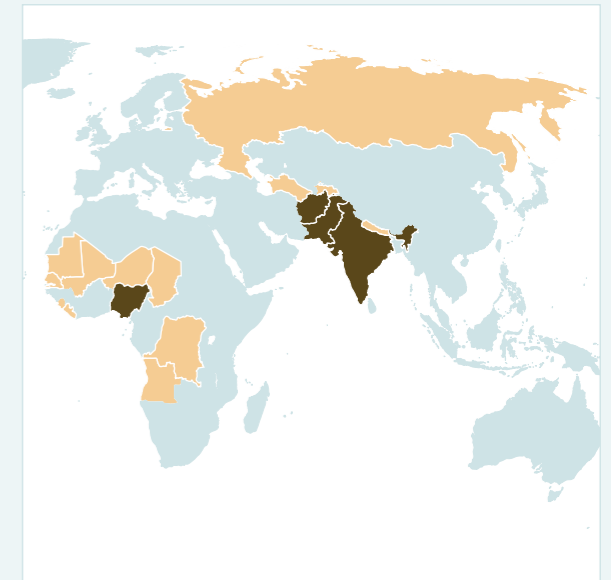
Polio still exists in 125 countries and paralyzes an estimated 350,000 children every year.

World Health Assembly passes a resolution calling for the global eradication of polio. Global Polio Eradication Initiative (GPEI) is created.

2007

The World Health Organisation declares that polio has been eradicated in the Americas, Europe, and the Western Pacific.

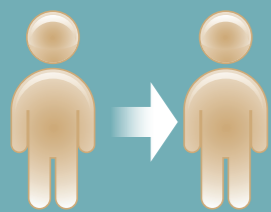
Today 2010



Polio is now endemic in only four countries: **Nigeria, India, Pakistan, and Afghanistan.**
Polio outbreaks still occur in **some countries** in Africa and Asia.

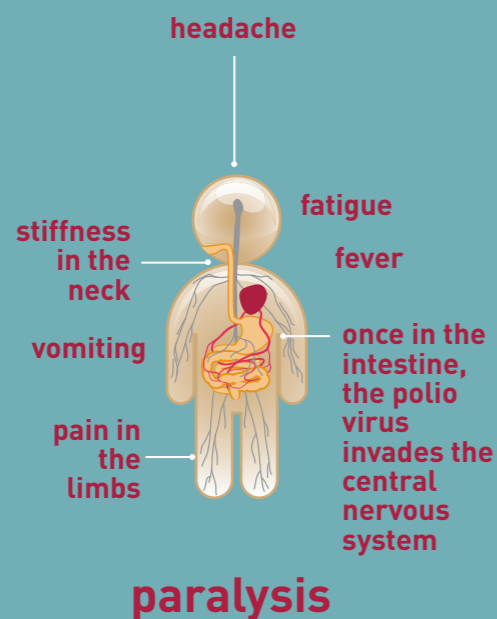
How does polio spread?

By person-to-person contact.



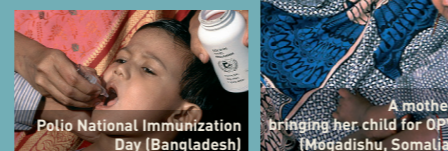
What are the symptoms?

Almost three-quarters have no symptoms at all.

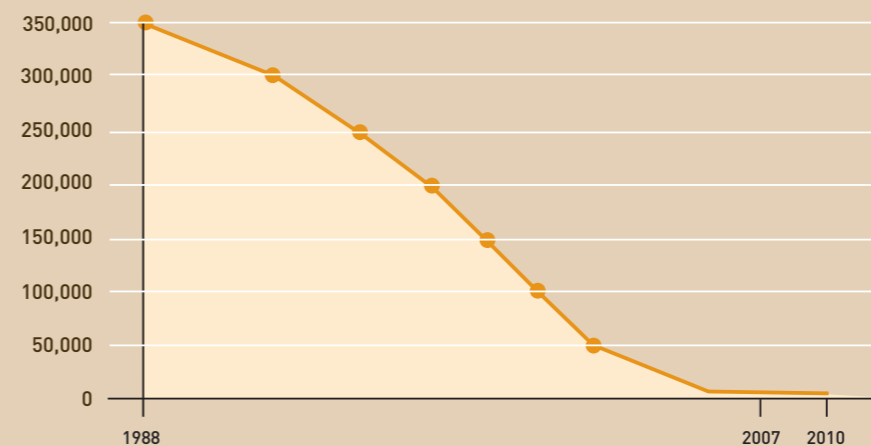


Preventing polio

Polio can be prevented through childhood immunization. The oral polio vaccine (OPV), given multiple times, almost always protects a child for life.



Estimated number of polio cases per year



From 350,000 cases in 1988 to just over 1,500 cases in 2009

99 percent reduction since 1988

Infectious diseases eradicated

1. Smallpox (1979) ✓
2. Polio ...

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