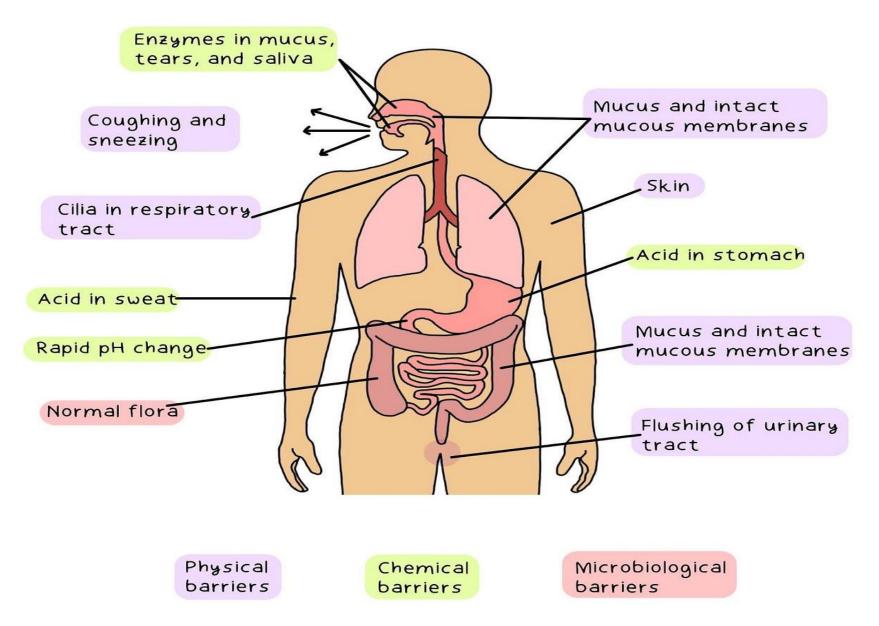
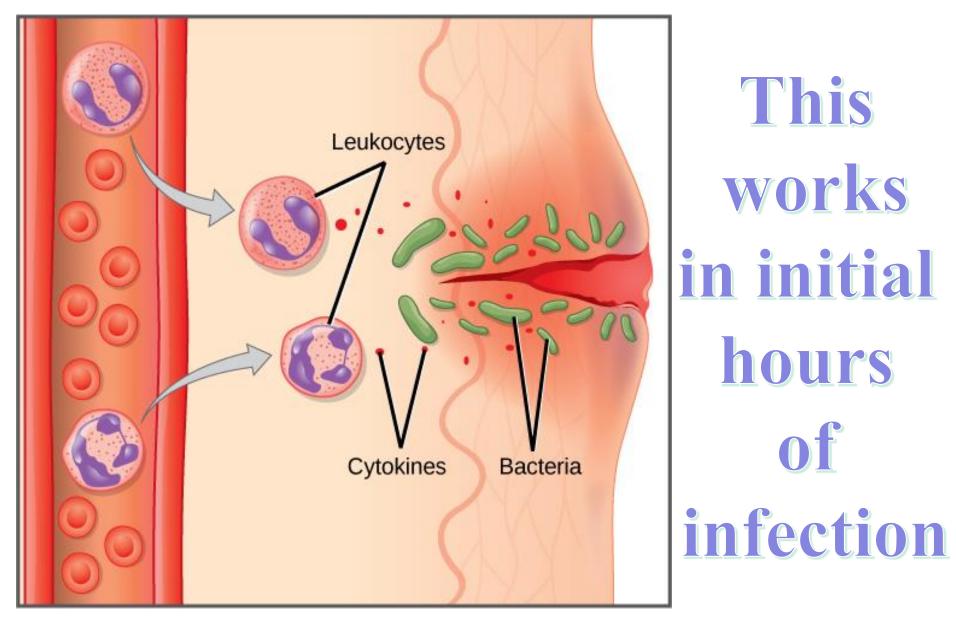
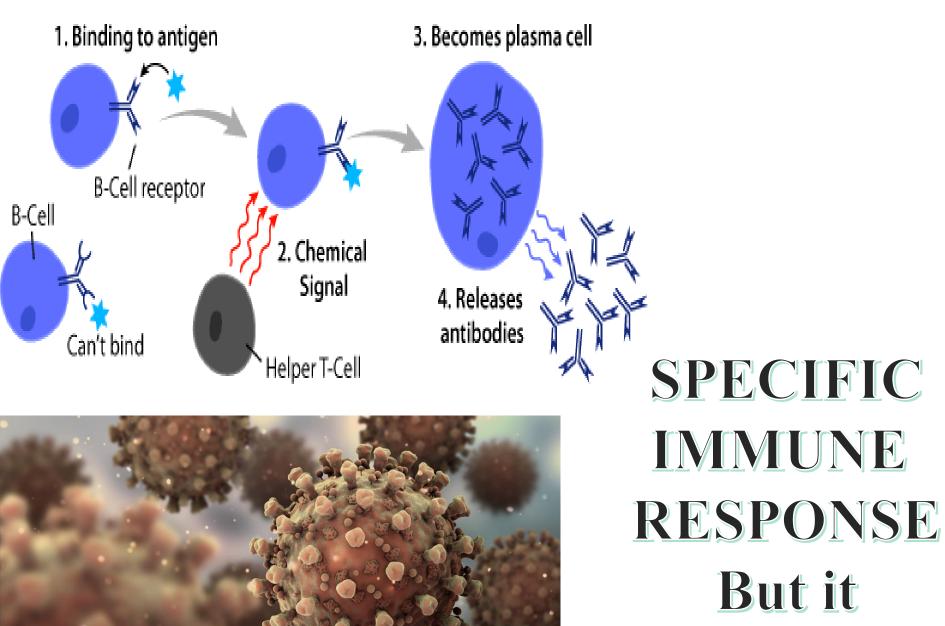


### FIRST LINE OF DEFENSE



### **NON-SPECIFIC RESPONSE**





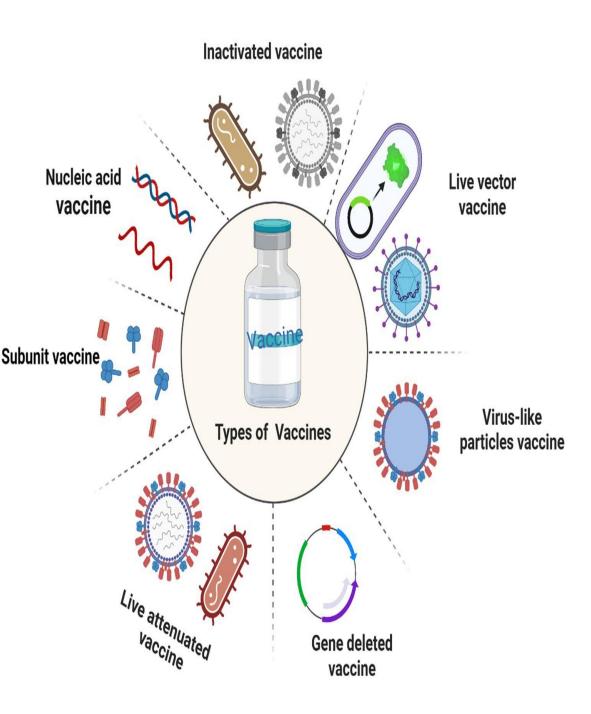
takes days

• Before Humans truly understood how our immune system worked. They recognized that individuals that were exposed to a particular disease and had acquired it and fought it off, seemed to develop a resistance to getting that disease again. Something we now call IMMUNITY. Example: Most people get Chicken Pox only once!



New York Shite Department of Health Photograph.

-A vaccine is something that is introduced to the body. This inoculation, then slowly triggers the immune system to build the appropriate antibodies that specifically attack the infectious agent. This way your immune system has an army of memory cells and antibodies ready to roll, so that when the real enemy enters... You immediately wipe it out



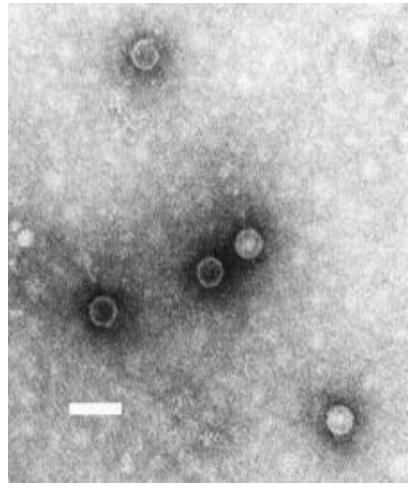






Another big killer, was POLIO : The polio virus attacks the nervous system. For some individuals, they would end up crippled due to paralysis. For others, the virus attacked the nerves that controlled the breathing muscles... Diaphragm and intercostal muscles.

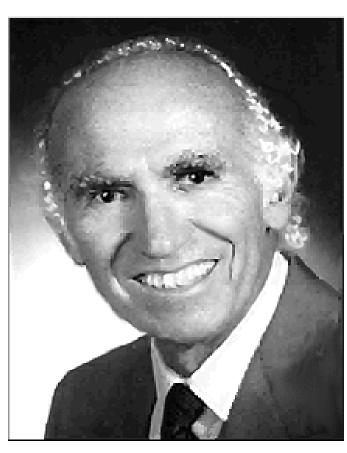






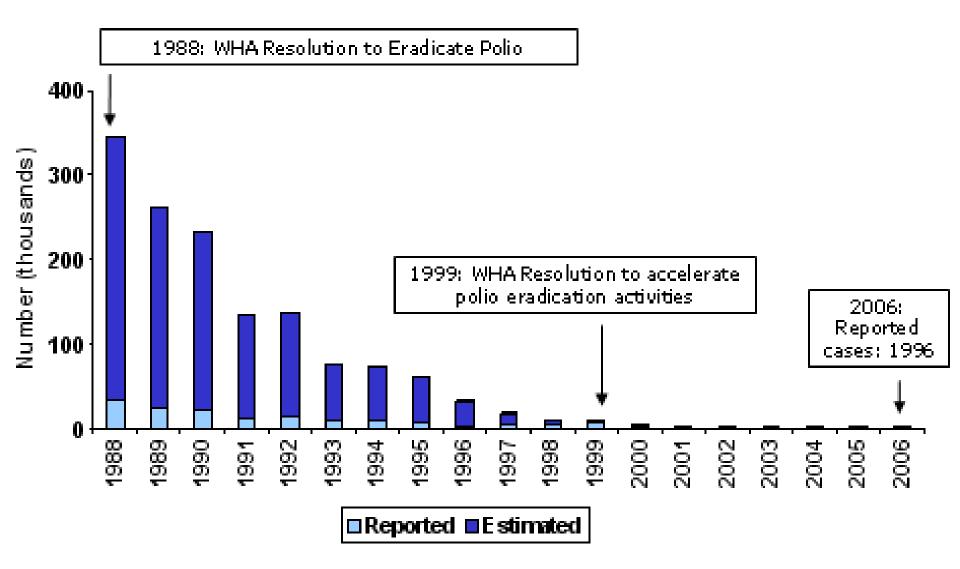
#### **Mass Immunization - VACCINES**

# After 1952 mass immunization programs using the Salk vaccine for poliomyelitis.

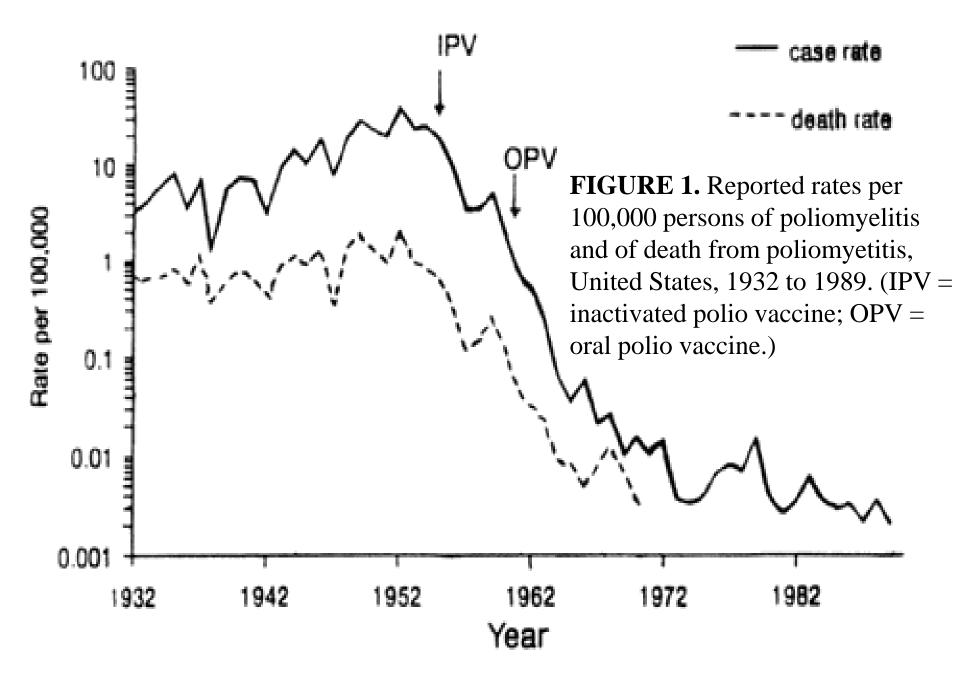




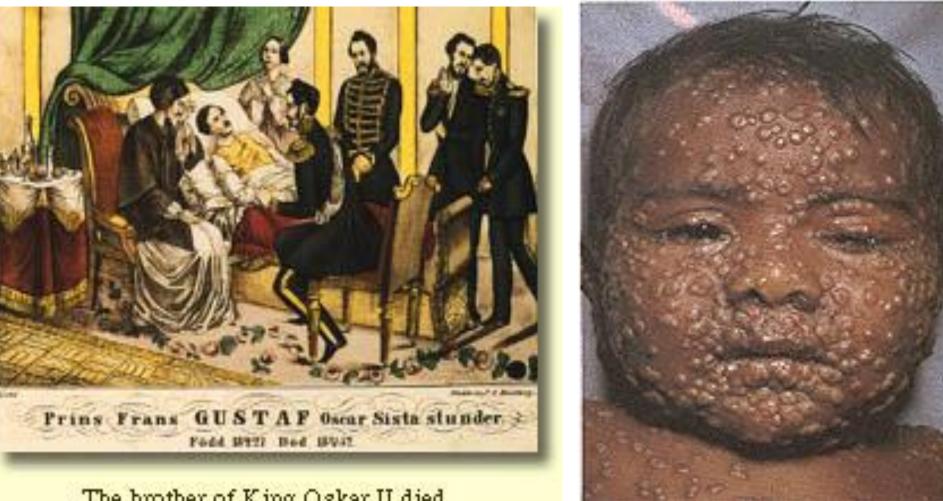
#### Progress in Polio Eradication Global Wild Poliovirus Cases, 1988-2006



Source: WHO HQ



Other newly developed vaccines (Tuberculosis, Measles, Mumps, and *Small Pox- late 1800's*) were used throughout the western world to reduce deaths from disease, in many cases totally eradicating such problems.



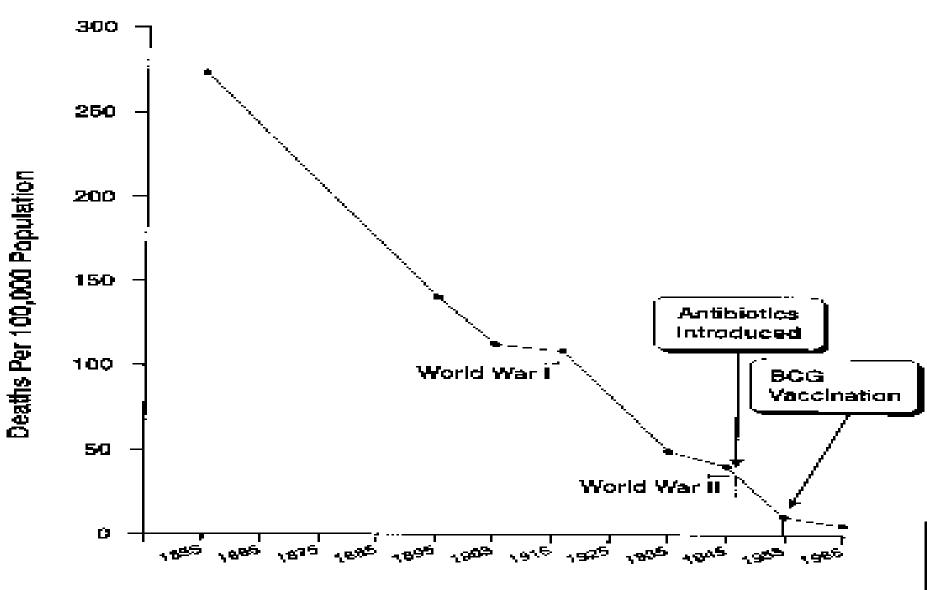
The brother of King Oskar II died from tuberculosis in 1852, age 25.

## ON THIS DAY IN 1980

# World Health Assembly declared the world free of smallpox

May 8, 1980

#### England 1855-1964: Decennial Death Rates From Respiratory Tuberculosis



### **ANTIVIRALS vs Antibiotics**

