



Epidemiology Dates

By Hind Shaker Suhwail

1. **John Snow** 🌟 (**modern father of epidemiology**) identified a contaminated water pump the source of a **cholera** outbreak in **1854**. He ended the outbreak by having the pump handle removed .
2. **Cyclic diseases**, such as the human coronavirus, show patterns **every 7-10 years** due to antigenic variations. SARS-CoV in 2003, MERS-CoV in 2012, and SARS-CoV-2 (COVID-19) in 2019
3. **Hippocrates (460BC)**: 🌟 Environment & human behaviours affect health: "healthy mind in health body".
4. **John Graunt (1662)**: Quantified births, deaths and diseases (Statistician, founder of demography in London).
5. **James Lind (1747)**: Scottish Doctor, treated scurvy among sailors with fresh fruit (Lemons)...first Clinical trial in history
6. **William Farr (1839)**: Established application of vital statistics to evaluate health problems...Founder of medical statistics.
7. In **December (5th-10th) 1952**, a **dense smog** caused by coal burning covered London for five days, leading to increase deaths. Weekly deaths rose from **2,062** to **4,703** (*increased because of smog*).
8. **April 1955**, Dr. **Thomas Francis** announced that the two-year field trial of the Salk polio vaccine was up to 90% effective. This marked the beginning of the end of polio .

9. **In 1993**, an outbreak of sudden *respiratory illness* occurred in the Four Corners region of the southwestern U.S. Similar outbreaks in ***1918 and 1936 were linked to an increased rodent*** population, . An *epidemiologic study confirmed a connection between rodents and affected households* . **Hantavirus** by rodents excreting the virus in feces and urine. People inhaled contaminated dust.
10. **In 1982**, an epidemiologist analyzed 166 farm tractor-related deaths in Georgia (1971–1981) using surveillance data , Farm tractor fatalities were highest in the **60–69 age group** and most often occurred at **11 AM** and **5 PM**
11. The Swedish two county trial of mammography screening started in **1977** in **Kopparberg and Ostergotland**. After **29 years**, it showed a **31% reduction in breast cancer mortality** among women invited to screening. To prevent one breast cancer death, **414 women** needed to be screened for **7 years**.
12. **1977**: The last naturally occurring smallpox case was identified and isolated in Somalia.
13. **1878**: Louis Pasteur introduced the germ theory, later developed into Henle-Koch postulates .