

- **Epidemic**- occurrence of expected number of cases among a group of people over time
- **Incidence**- # of new cases in a population
- **Prevalence**- # of cases in a population (per 10,000 or 100,000)
- **Outbreak**- more cases of particular disease than expected in given area over given time
- **Endemic**- large numbers of people over geographic area distribution affected with the same disease
- **Pandemic**- an epidemic spanning a very wide area
- **Vector**- an animal intermediate that transmits a pathogen to humans
- **Virulence**- Degree or intensity of pathogenicity of an organism
- **Compromised host**- host with lowered resistance to infection
- **Nosocomial infection**- an infection that is traced back to a hospital
- **Infectivity**- capacity to cause infection in a susceptible host
- **Pathogenicity**- capacity to cause disease in a host
- **Virulence**- severity of disease that the agent causes to host
- **Case definition**- The onset of ___(symptoms) in a ___(person) at ___(time and place)
- **Confirmed**- diagnosis by lab verification
- **Probable**- many factors point to diagnosis, but no lab verification
- **Suspected**- some factors point to diagnosis
- **Reservoir**- site that harbors pathogenic organisms (human, animal, soil)
- **Mortality rate**- # sick divided by # exposed
- **Mortality rate**- # dead per 100,000 population
- **Case Fatality rate**- # dead divided by # sick
- **Modes of transmission**- droplet (through air, flu, TB, SARS, hantavirus), blood (sexual or injected, HIV, hepatitis), direct contact (touching, leprosy, chicken pox), oral-fecal (contaminated water, cholera, giardia), vector (spread by animal, malaria, Lyme disease)
- **AIDS**- acquired immunodeficiency syndrome, spread by blood/ sexually, attacks immune system
- **Tuberculosis**- caused by bacteria, cough, fever, fatigue, weight loss, treated by antibiotics, attacks respiratory system or other parts of body
- **Malaria**- caused by protozoan, spread by mosquitoes (anophelies), cyclic fever & chills
- **2 Titles**: Person, Place, Time, Agent, Host, Environment
- **Index Case**: The first case in an outbreak
- **Virus**: 1. Are small, much smaller than bacteria 2. not composed of cells 3. have 2 basic components: DNA or RNA covered in protein. Viruses can only reproduce inside the cells of other living organisms (rabies, AIDS, SARS, ebola, measles)
- **Bacteria**: Bacteria have 1 cell and no nucleus. DNA and ribosomes float in the cell. They have flagella to help them swim. They have no cell organelles. Gram + bacteria have a strong cell wall with peptidoglycan and a capsule. Bacteria also have pill that help stick. (E. coli, streptococcus, diphtheria, MRSA, Lyme disease)

Shapes: spherical (cocci) Arrangements: staph (clumps) Srep (chain)
Rod (bacilli) Srep (chain)
Spiral (spirilla or spirochete)

Cohort Study- used for outbreaks in small, well-defined populations, moves forward or backward from exposure

| Disease? | Disease + | Disease - |
|-----------|-----------|-----------|
| Exposed | (A) | (B) |
| Unexposed | (C) | (D) |

Attack Rate- exposed $A/(A+B)$ unexposed $C/(C+D)$

Relative Risk- $[A/(A+B)]/[C/(C+D)]$

Relative Risk > 1: more likely

Relative Risk < 1: possible protective effect

0 → 1 →

Case control Study- used when groups are not well-defined compares people with the disease to people without, works backward

| Exposed | Case Patients | Controls |
|---------|---------------|----------|
| Yes | (A) | (B) |
| No | (C) | (D) |

Odds ratio: $(A/C) / (B/D) = (A \times D) / (B \times C)$

A= # of case patients exposed

B= # of control people exposed

C= # of case patients unexposed

D= # of control people unexposed

- **Cholera**- Vibrio Cholerae (oral-fecal)
- **Campylobacter Enteritis**- campylobacter jejuni (oral-fecal)
- **Chicken Pox**- varicella zoster (droplet and direct contact)
- **Chlamydia**- Chlamydia trachomatis (sexually)
- **E. coli**- E. coli (oral-fecal)
- **Malaria**- plasmodium (vector, anophelies mosquito)
- **MRSA**- staphylococcus aureus (direct contact)
- **SARS**- coronavirus (droplet)
- **Leprosy**- mycobacterium leprae (direct contact)
- **Schistosomiasis**- schistosoma (oral/contact with water)
- **Shingles**- herpes zoster (contact, droplet)
- **Strep throat**- streptococcus (droplet)
- **Tuberculosis**- mycobacterium tuberculosis (droplet)
- **Tetanus**- clostridium tetani (contact)
- **Ebola**- filoviridae (contact/blood)
- **Athlete's foot**- trineas pedis (contact)
- **Jakob**- Cruetzfeldt-jakob (ingestion)
- **Tapeworm**- nematode (ingestion)
- **Hepatitis**- hepatitis A, B, C virus (a: oral fecal, b: sexually)
- **Giardia**- giardia lamblia (direct contact)

Types of epidemic

- **Point source**- An epidemic in which all cases are infected at the same time, usually from a single source or exposure.
- **Continuous source**- An epidemic in which the causal agent (e.g. polluted drinking water, spoiled food) is infecting people who come into contact with it, over an extended period of time.
- **Person-to-Person** (a.k.a. Propagated)- An epidemic in which the causal agent is transmitted from person to person, allowing the epidemic to propagate

Chain of Transmission

Reservoir

Portal of Exit

Mode of Transmission

Portal of Entry

Host Types:

(Can be infected)
Susceptible
Infected
Immune



| Study design | Strength | Weakness |
|-----------------------|--|--|
| Case-control | Good for rare disease or long latency, examine multiple exposures from a single outcome; less expensive and quicker to conduct than cohort study | Possible error in recalling past exposure (Recall Bias) Possible time-order confusion |
| Cohort | Examining multiple outcomes for a single exposure; examine rare exposures (such as asbestos but not for rare disease); can calculate the incidence of disease (while case control cannot); best technique for an outbreak in a small, well defined population; most accurate observational study | Not good for rare diseases, costly in time and resources; possible loss to follow up over time; factor, which may be many years in the past or may be seen as socially (un)desirable |
| Cross-sectional | Relatively short duration; can study several outcomes; least expensive | Since exposure and disease status are measured at the same point in time, it may not always be possible to distinguish whether the exposure preceded or followed the disease. |
| Experimental or Trial | Most scientifically sound, best measure of exposure | Time consuming and Expensive; Unethical for Harmful Exposures |

| | | | |
|-------------------------------|-------------------|-------------------------|---------------------|
| Bacterial | Fungal | Viral | Parasitic |
| Food poisoning | Candidiasis | Influenza | Chagas Disease |
| Gonorrhea | Fungal Meningitis | Chickenpox | Ascariis |
| TSS | Genital warts | HIV/AIDS | Strongyloides |
| Cholera | Aspergillus | Herpes | Malaria |
| Gastro & ulcers | Athlete's foot | Mumps, measles, rubella | Quarties Giardiasis |
| Pneumonia | Ringworm | HPV | trichomoniasis |
| Ear infections & strep throat | | Shingles | toxoplasmosis |

10 Steps to Outbreak Investigation

- 1) Prepare for field work- Research disease, prepare to travel, make arrangements with personal contacts
- 2) Establish the existence of an outbreak- compare current number of cases to previous cases, use health records, documents, etc.
- 3) Verify diagnosis- Review clinical and laboratory results for the cases, interview patients
- 4) Define and identify cases- establish case definition, have clinical info, characteristics of the people, place, time, etc.
- 5) Describe and orient the data in terms of person, place, and time- use epi curve to describe how many cases at what time
- 6) Develop hypotheses- consider disease, interview people who are ill, try and notice what certain characteristics make people have the disease
- 7) Evaluate hypotheses- compare with established fact, use statistics, use case-control or cohort studies
- 8) Refine hypotheses- study environment, use data for more insight
- 9) Control and Prevention measures- immunization, medicine, isolation, carry out as soon as possible
- 10) Communicate findings- Oral briefing for local health authorities, written report for archives

Outbreak Study Guide

Rodney P. Anderson



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