

Communicable Diseases An Overview

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CD

Important changes during the last 30 years.

- Epidemiological & demographic changes in developing countries
→ changes in pattern of diseases

CD- Public Health Significance

- Suffering
- Deaths
- Disability
 - => Economic Burden

CD Kills

- 14 million deaths/year in developing world
- 46% due to CD
- 90% due to diarrhoea, Respiratory infections, AIDs, TB, Malaria

Disabilities

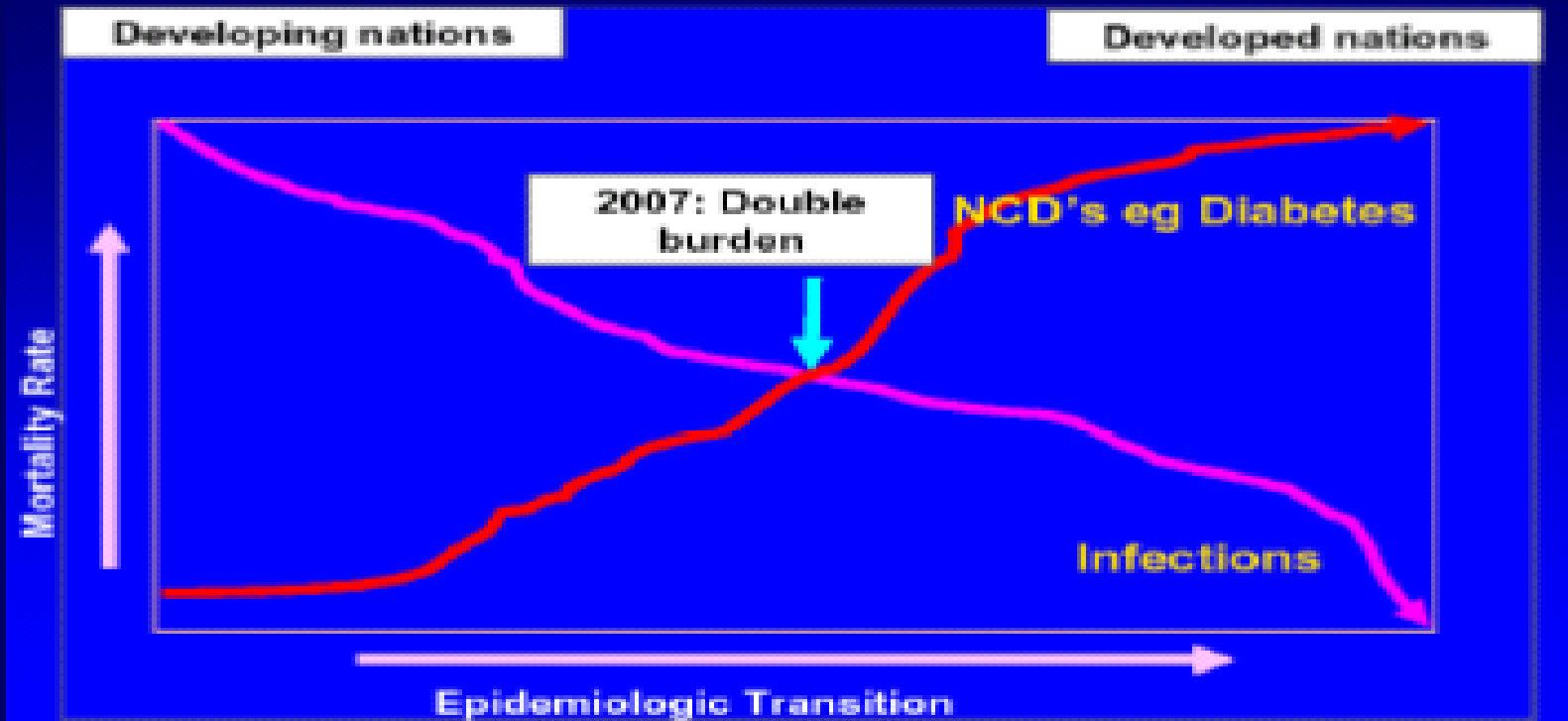
- Polio
- Leprosy
- Filariasis
- River Blindness

Surprises

- Emergence of New Diseases (AH1N1, SARS, Ebola, ? AH5N1)
- Re-emergence of Diseases (Dengue, Chik., TB, Malaria)
- Deliberate use of Bioagents (Anthrax)

Health in Transition

"The Double Burden" & Epidemiologic Transition



CD- Definition

- Characterized by the existence of a living infectious agent which is transmissible

Factors of Infection

- Infectious Agent
- Host
- Environment

Infectious Agents

- Viruses
- Bacteria
- Protozoa
- Fungi
- Helminths
- Rickettsia

Transmission Modes

- **Airborne/Droplet** (Flu, TB, Measles, Chickenpox)
- **Contact** (Scabies, STD,s, HIV, Hepatitis)
- **Ingestion (Faeco-oral)** (Hep A, Dysentery, C holera, Salmonella)
- **Transplacental** (Rubella, HIV)
- **Penetration of Skin** (Vectors -Malaria, Dengue, Chikungunya, Hookworm larvae, bilharzia)
- **Zoonoses** (Rabies, Leptospirosis)

THANK YOU !

