

The background is a gradient from dark purple at the top to deep blue at the bottom, speckled with white dots resembling a starry sky. Overlaid on this are several faint, white, circular and semi-circular patterns. Some of these patterns include tick marks and numbers, suggesting a circular scale or a clock face. For example, one large arc on the left has numbers ranging from 140 to 260. Other smaller arcs and dashed lines with arrows are scattered across the image, creating a sense of motion and complexity.

COMMON HUMAN DISEASES

INTRODUCTION

● The condition of being sound in body, mind or spirit, especially freedom from physical disease or pain-Health

• Ancient days- considered as a state of body & mind with balance of 'humors- asserted by Greeks & Indian Ayurveda system

● It was believed- person with 'blackbile' belong to hot personality & would have fever

Humors- four distinct bodily fluids; excess or deficiency of bodily fluids in individual person directly influences temperament & health

. Four humors- Black bile, yellow bile, phlegm & blood

● Later discovery of Blood circulation by William Harvey & demonstration of normal body temperature in person with blackbile- disproved 'good humor' hypothesis

FACTORS AFFECTING HEALTH

1. Genetic disorders-deficiencies a child born with & deficiencies/

defect child inherit 2. Infections

3. Life style-food & water, rest & exercise, habits

● **Health in generally means free from illness/ disease, injury or pain/**

lack of physical fitness Health can be defined as a state of complete physical, mental and

social well-being Healthy people are efficient at work which increases productivity & brings economic prosperity

◀ ● **Health- increases longevity of people & reduce infant & maternal**

mortality

FACTORS FOR GOOD HEALTH



HEART DISEASE AWARENESS



TYPES OF DISEASES

1. **Congenital Disease- inborn disease & genetically inherited**
2. **II. Acquired Disease-after birth & non- inheritable**
3. **Congenital Disease:**
4. **1. Disease due to gene mutation. Eg.- Haemophilia, Color blindness 2. Disease due to chromosomal mutation Eg.- Down's syndrome, Klinefelter's syndrome**
5. **Acquired Disease:**
6. **1. Communicable or infectious diseases- air, water, food, physical contact or vectors (Bacteria, Virus, Protozoa, Helminth, Fungus etc.)**
7. **2. Non-communicable or non- infectious diseases- Deficiency disease**
8. **(Diabetes), Degenerative (Arthritis), Cancerous & Allergic diseases**
- 9.
9. **(Asthma)**

COMMON DISEASES IN HUMANS

**Any substance which cause a disease by its excess or deficiency or absence-
Disease agents**

- **Organism belonging to bacteria, viruses, fungi, protozoans, helminths**

Etc., which cause disease- Pathogens

Pathogen acts as parasite by living on/in host & cause harm i.e.

Disease

Mode of transmission/ epidemiology or entry into host- different means

- **Once entered into host body-it multiply & interfere with normal vital activities which results morphological & functional damage**
- **Pathogens after it entry into the host-adapts itself based on the environment, Eg. Pathogen entering gut should survive at low pH to resist digestive enzymes**

DISEASES

Typoid

Pnuemonia

Common cold

Malaria

Amoebiasis

Ascariasis

Filariasis

Ringworm

TYPOID

Causative agent: Salmonella typhi (Bacterium)

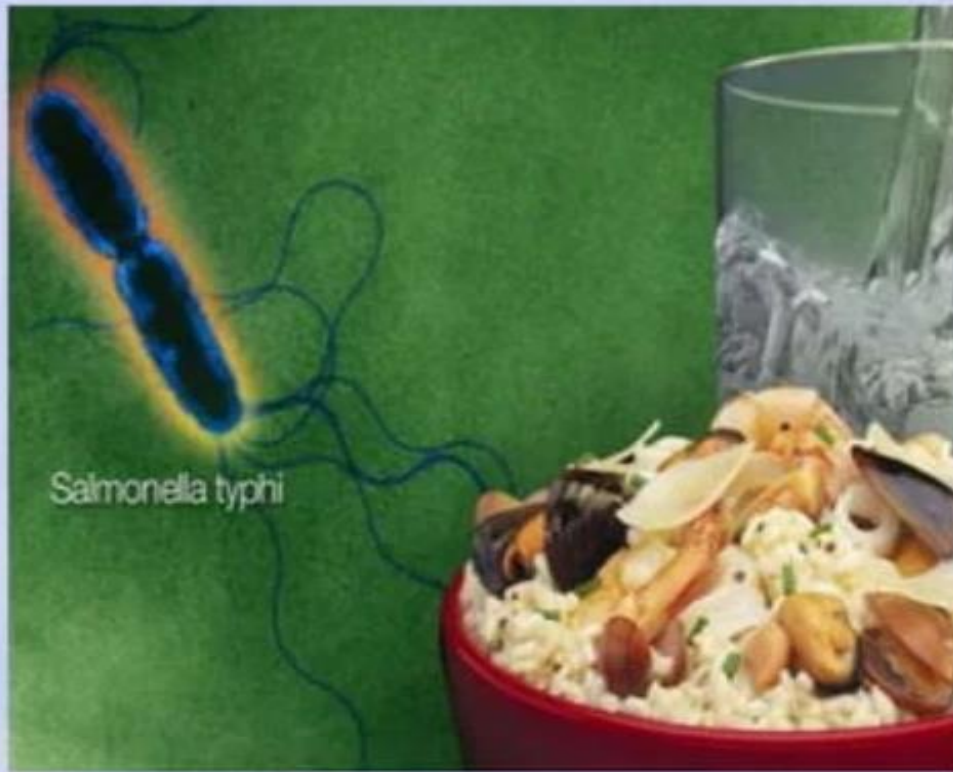
Epidemiology: Contaminated food & water, enters small intestine & migrate to other organs through blood

Symptoms:

Tyoid fever-sustained high fever (39° to 40°C), Weakness, Stomach pain, Constipation, Headache, Loss of appetite, Severe cases-intestinal perforations & death

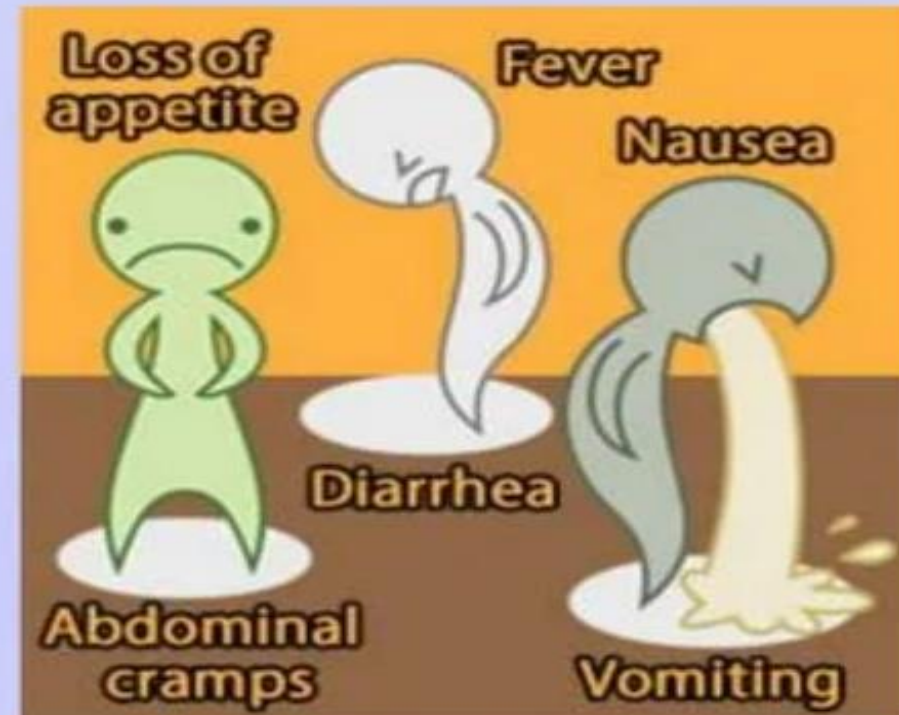
Confirmation of disease: Widal test

Mary Mallon nicknamed Typhoid Mary- typhoid carrier & was cook by profession, continued to spread typhoid for several years through food she prepared



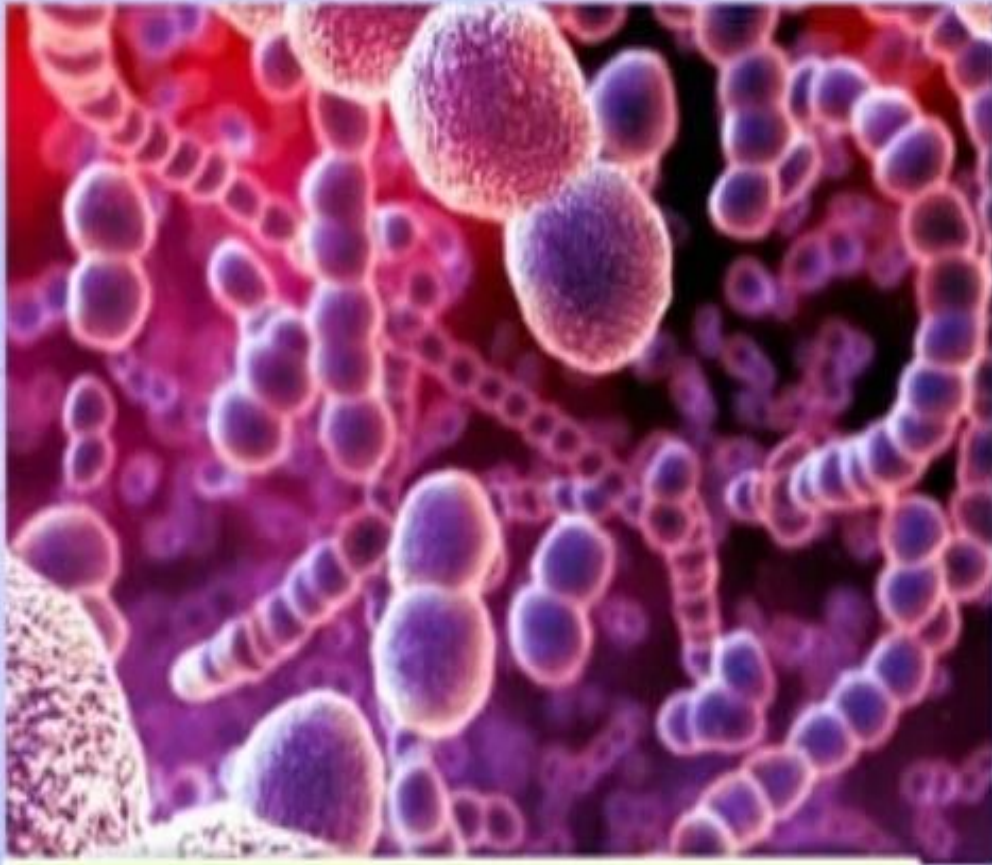
Mode of transmission

Common Symptoms

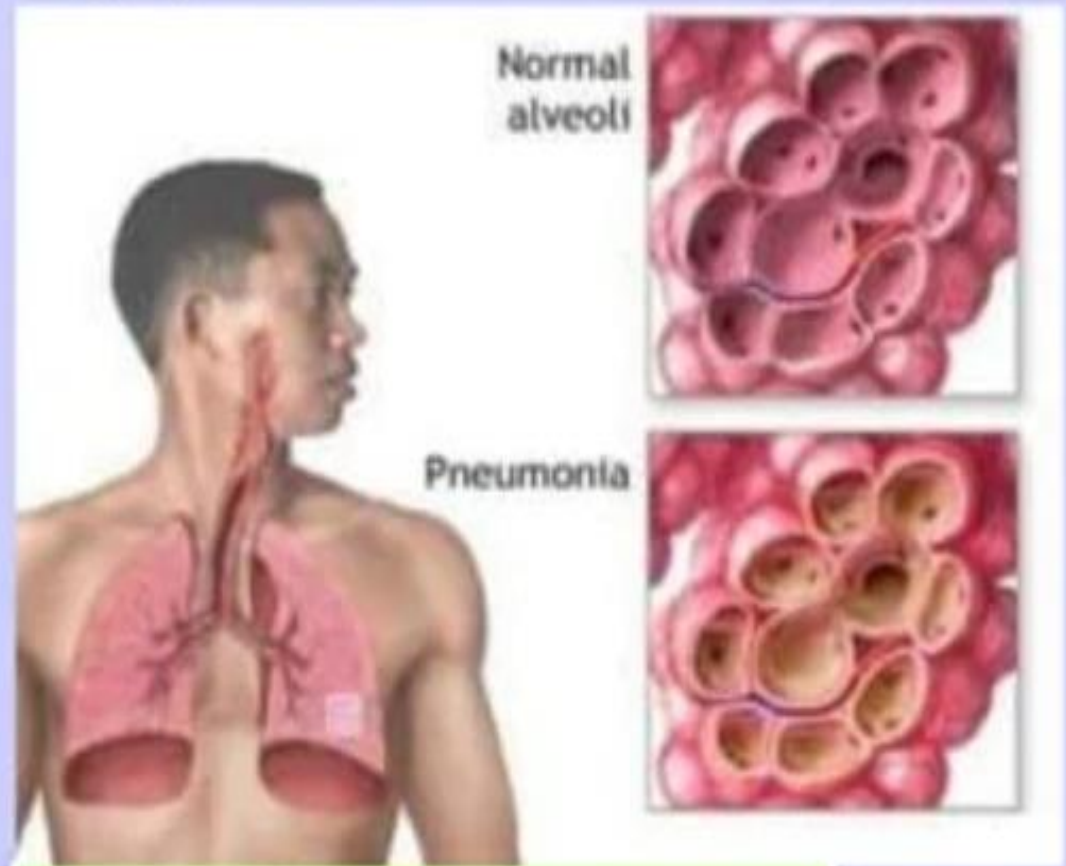


PNEUMONIA

- Causative agent: *Streptococcus pneumoniae* & *Haemophilus influenzae*
- (Bacteria)
- Epidemiology: inhalation of droplets/aerosols released by an infected person and by sharing glasses and utensils with an infected person
- Symptoms: Disease develops by causing infection in respiratory tract, Alveoli due to infection gets filled with fluid – severe problems in respiration, symptoms include fever, chills, cough and headache, severe cases the lips and finger nails may turn gray to bluish in color



Streptococcus pneumoniae



Pneumonia



Headache



Chest Pain



Sputum Cough



Heat



SYMPTOMS OF **PNEUMONIA**



Pallor Of The Skin

COMMON COLD

- Causative agent: Rhino virus

Epidemiology:

1. Inhalation of droplets of cough or sneeze of an infected person 2. Transmission through contaminated objects

Symptoms:

Infect the nose and respiratory passage but not the lungs

Common cold shows symptoms like nasal congestion and discharge, sore throat, hoarseness, cough, headache, tiredness, etc

Symptoms usually last for 3-7 days



The common
cold has no
cure

and can live for
hours outside the
body

SUDDEN SYMPTOMS

SEVERE, COME ON
WITHOUT WARNING

TIREDNESS

SUDDEN, EXTREME

COMMON COLD – SYMPTOMS



Runny nose



Fever



Rhinitis



Cough



Fainting



Sore Throat



Headache



Weakness

MALARIA

Causative agent: Plasmodium vivax, P. Malaria, P. Falciparum (Protozoa)

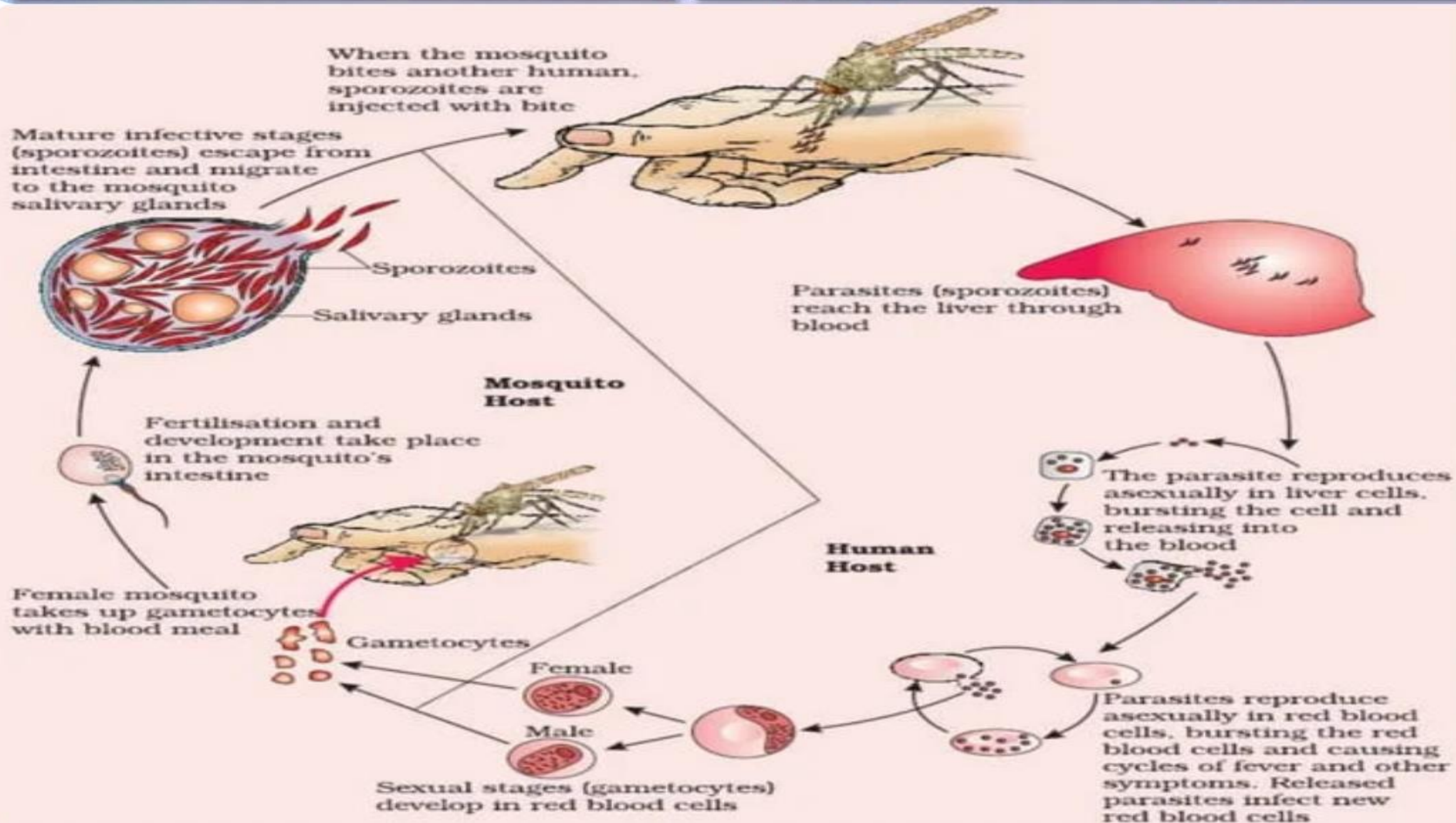
P. Falciparum- Malignant malaria which may be fatal Epidemiology: Bite of female Anopheles mosquito

Target organ: RBC & liver

Symptoms: High fever and chill, fever occurs on every alternate day, vomiting

ANOPHELES MOSQUITO





SYMPTOMS OF MALARIA



Headache



Vomiting



Fever



Nausea



Dry Cough

AMOEBIASIS

Causative agent: Entamoeba histolytica (protozoan)

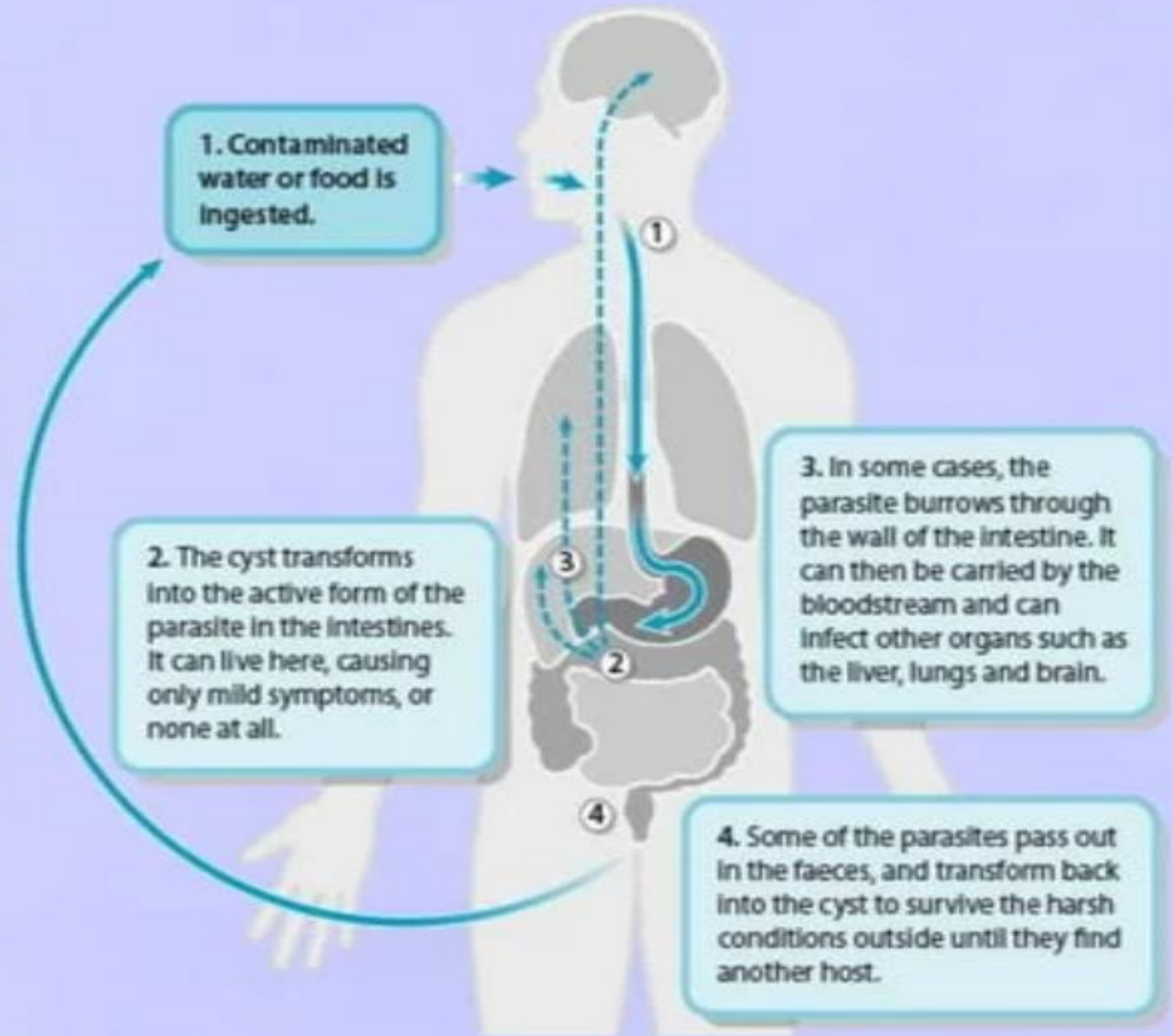
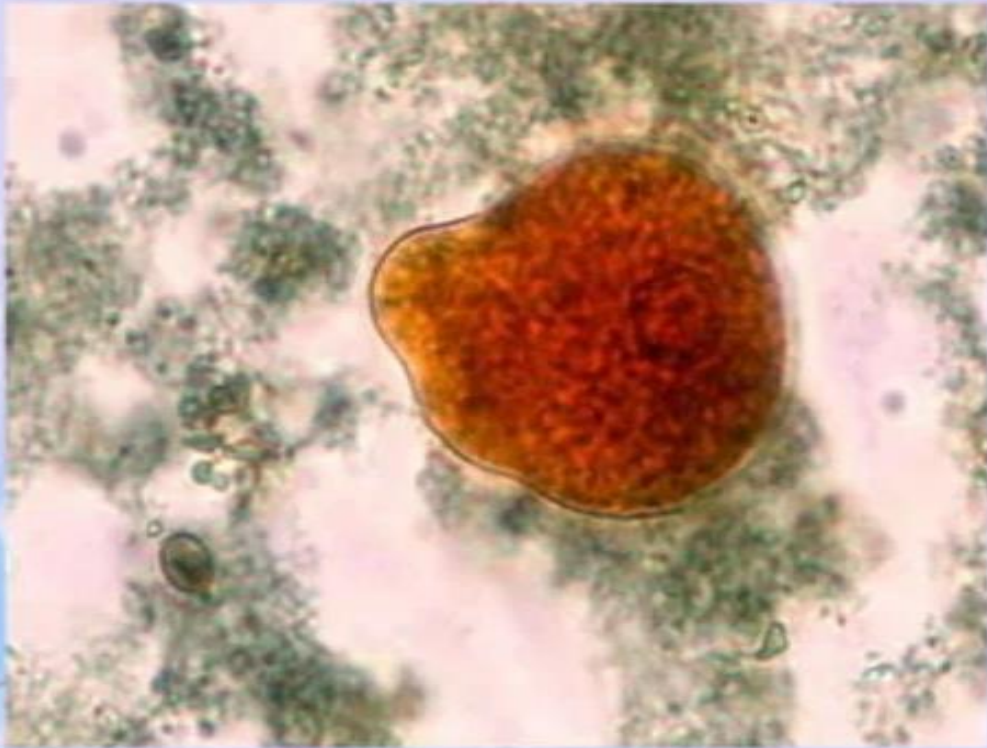
Epidemiology:

- 1. Transmission of parasite from faeces of infected person to food or food products through Houseflies (mechanical carrier)**
- 2. Drinking water contaminated by the faecal matter are the main source of infection**

Target Organ: Large intestine

. Symptoms:

Symptoms includes constipation, abdominal pain and cramps, stools with excess mucous and blood clots.



Symptoms of Amoebic Dysentery



Diarrhea.



High fever.



Nausea and vomiting.



Weight loss.



Upset stomach.

ASCARIASIS

Causative agent: Microsporum, Trichophyton & Epidermophyton-
(fungi)

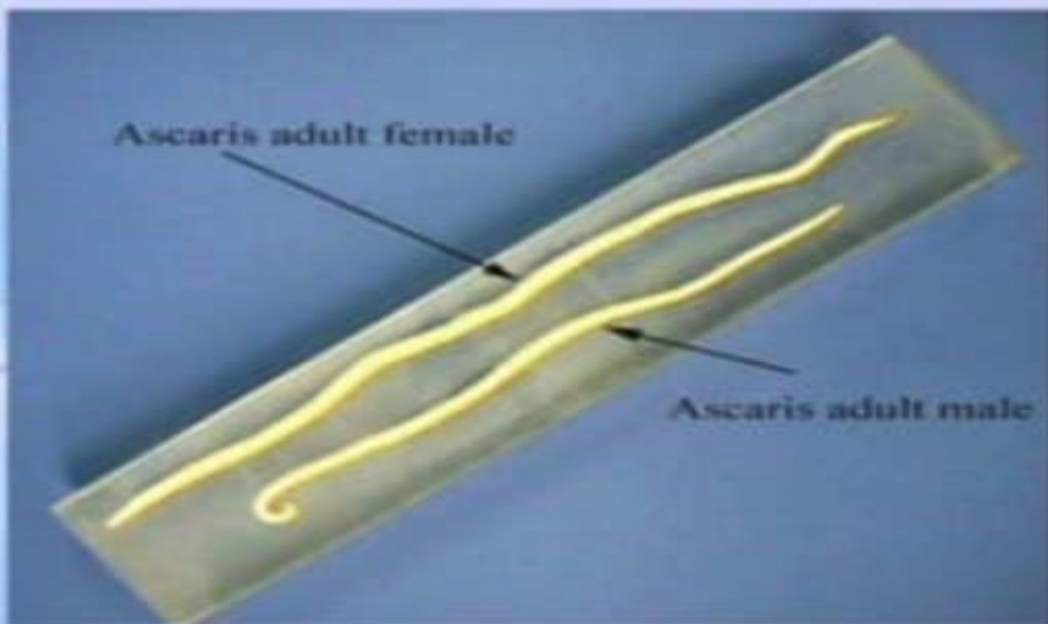
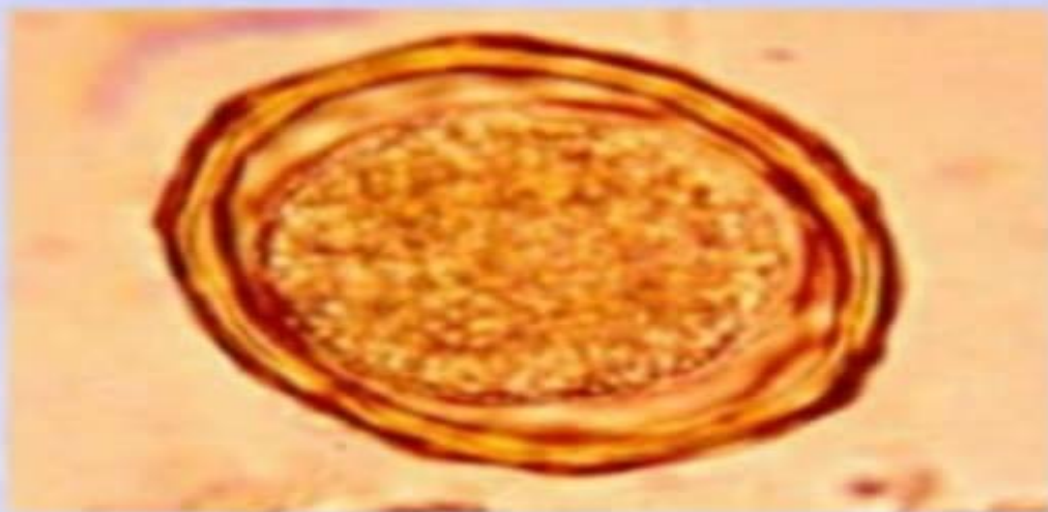
Epidemiology:

1. Acquired from the soil.
2. Using towel, clothes or even comb of infected individuals.
3. Heat & moisture enhances the growth of organism

Target organs: Skin, nails, folds of skin in groin & toes

Symptoms:

1. Appearance of dry, scaly lesions in skin nails and scalp.
2. Lesion accompanied with intense itching.



ASCARIS LUMBRICOIDES

Ascaris lumbricoides, commonly called the roundworm, is the commonest intestinal nematode to infect the human and affects a quarter of the world's population.

Symptoms:

General



- Fever
- Pain
- Malnutrition

Abdomen



- Abdominal pain

Liver



- Obstructive jaundice



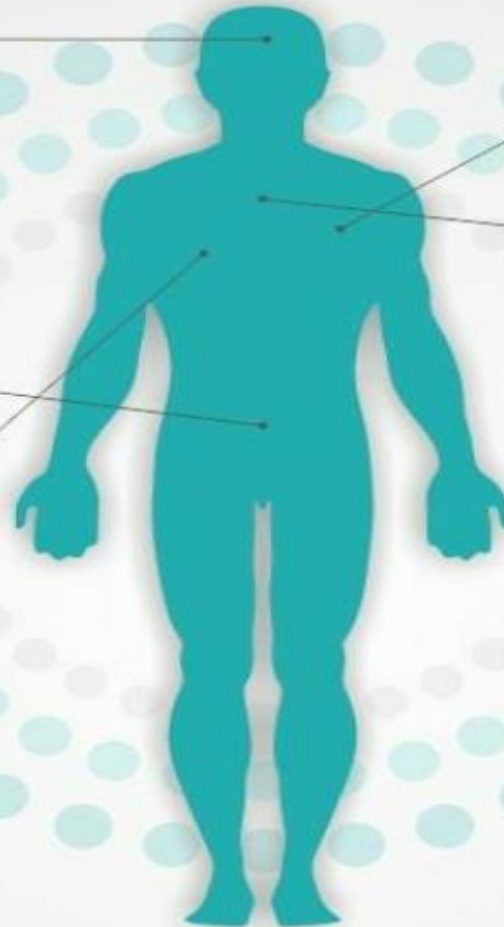
Heart

- Chest pain



Lungs

- Dry cough
- Dyspnoea



FILARIASIS

Causative organism: *Wuchereria bancrofti* & *W. Malayi*

worms)- Helminths (Filarial

Epidemiology: Bite of female mosquito vectors- *Culex*

Target organ: Lymphatic vessels of lower limbs, genital organs

Symptoms:

1. Chronic inflammation of organs (many years)- lymphatic vessels

which result in appearance of elephant like leg- Elephantiasis 2. Deformation of genital organ

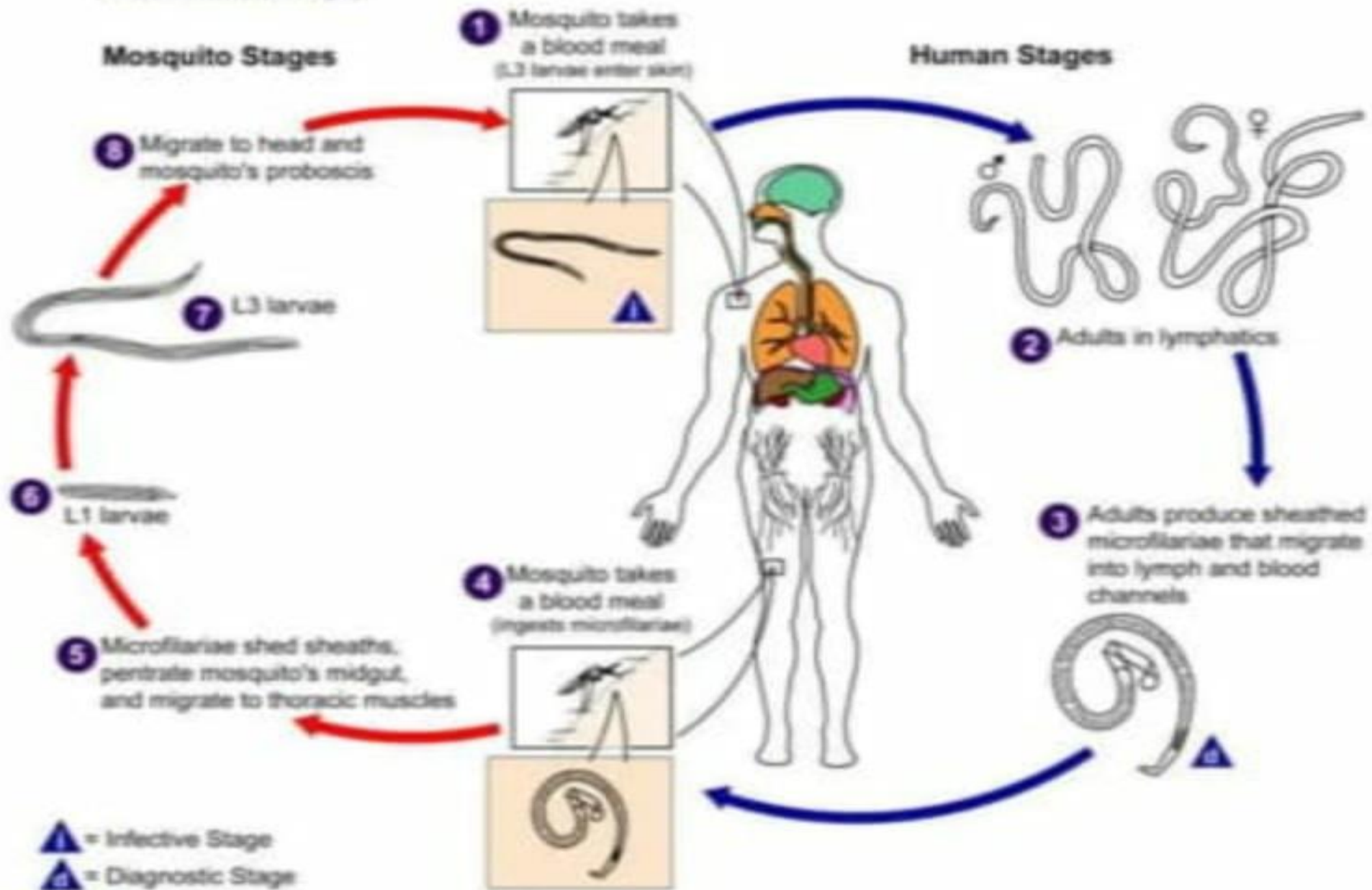
CULEX MOSQUITO





Filariasis

(*Wuchereria bancrofti*)

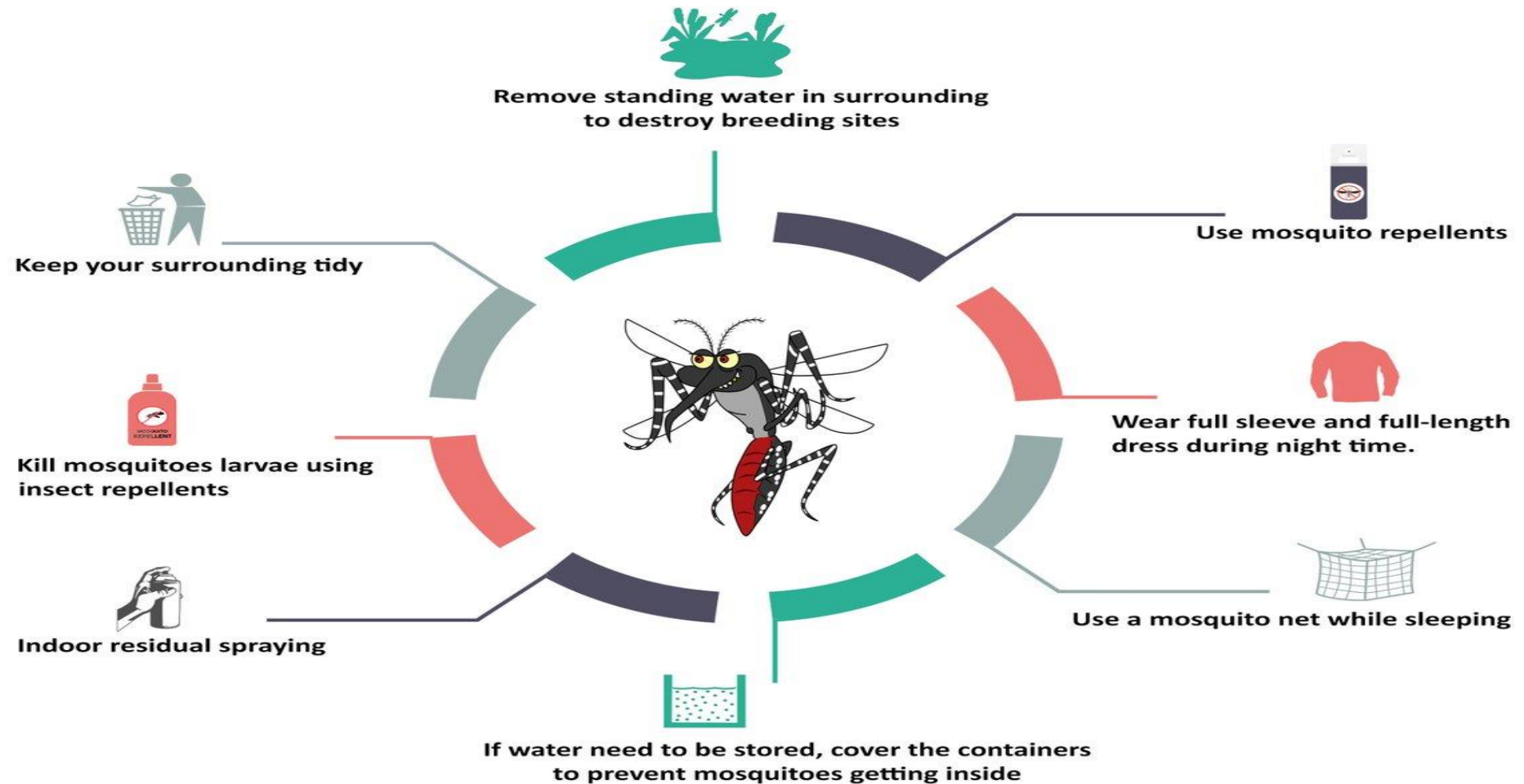


How to prevent Filariasis?



IAD

Institute of Applied Dermatology
Effective Care through Integrative Medicine



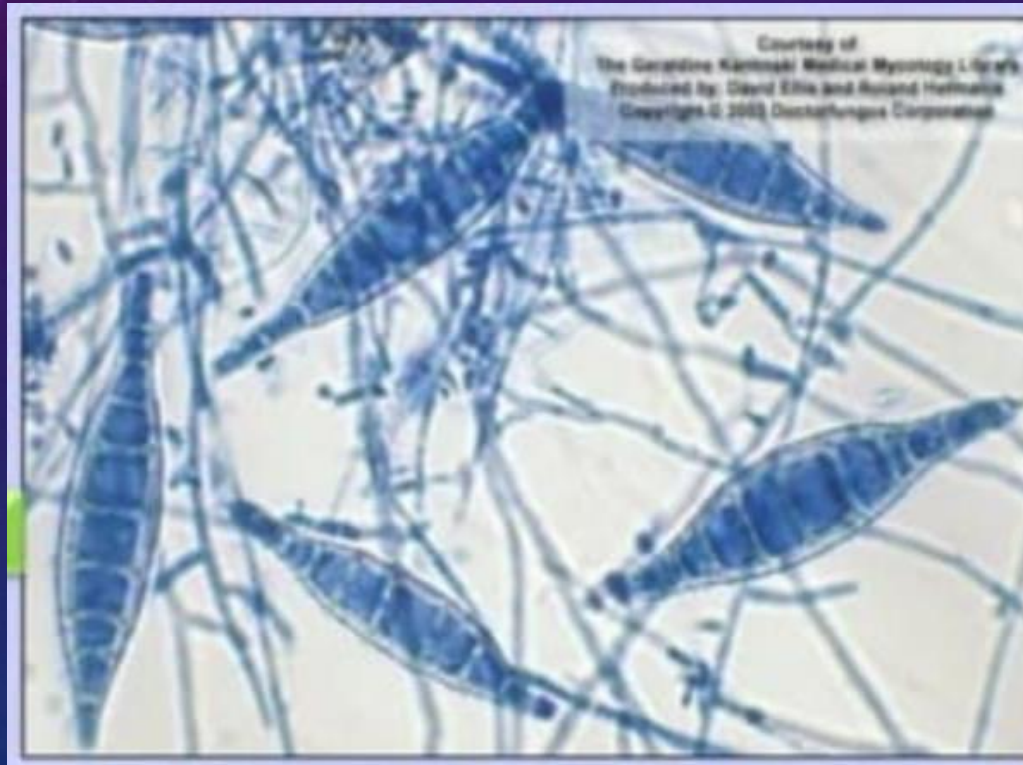
RING WORM

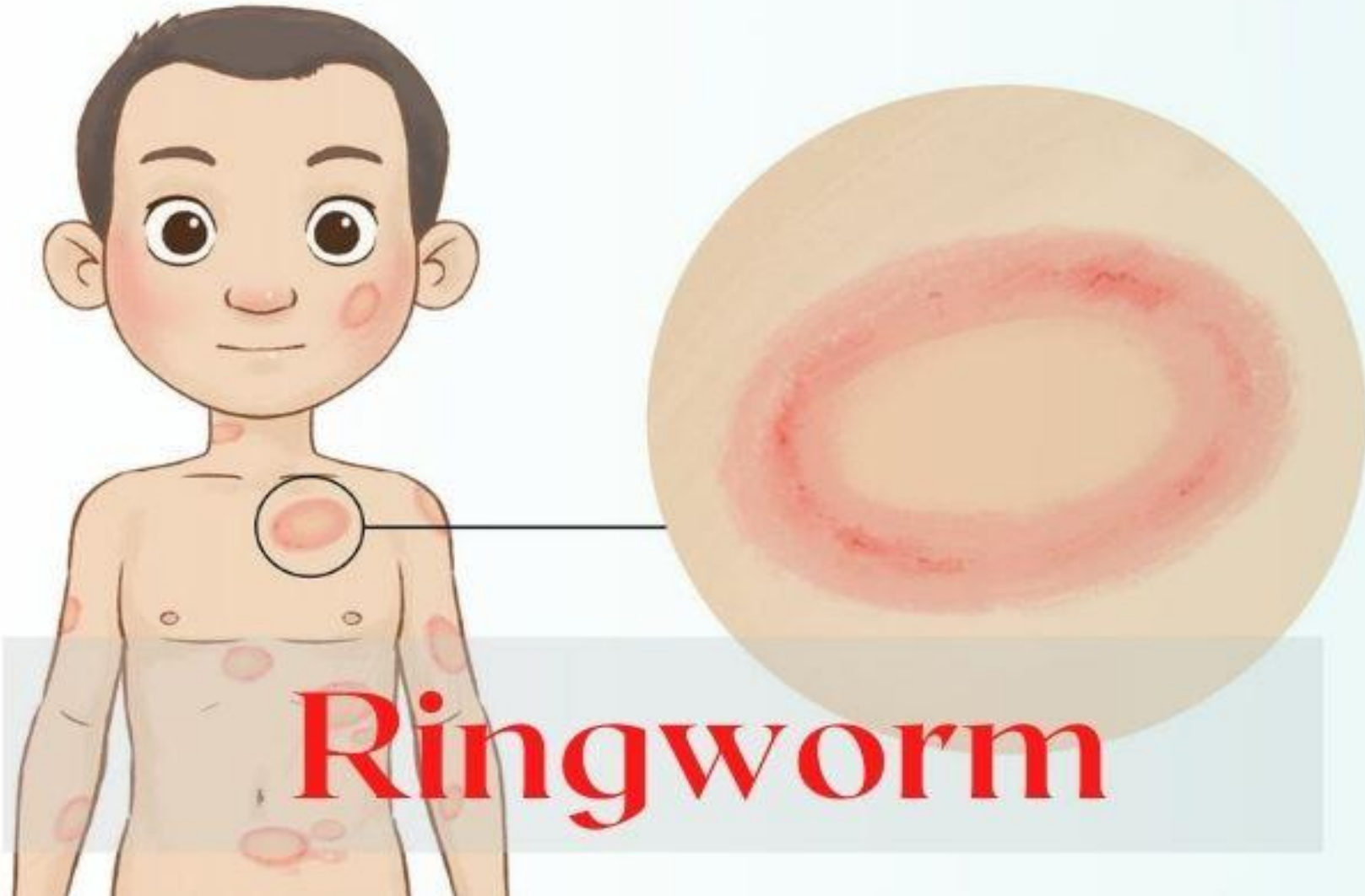
Causative agent: Microsporum, Trichophyton & Epidermophyton-
(fungi)Epidemiology

1. 1.Acquired from the soil.
2. 2. Using towel, clothes or even comb of infected individuals.
 - 3. Heat & moisture enhances the growth of organism
1. Target organs: Skin, nails, folds of skin in groin & toes
2. Symptoms:
 3. 1. Appearance of dry, scaly lesions in skin nails and scalp.
 4. 2. Lesion accompanied with intense itching.



MICROSPORUM





Ringworm

PREVENTION AND CONTROLL OF DISEASE

Infectious diseases can be prevented through maintenance of personal and public hygiene • Diseases can be grouped as:

1. Food & water borne diseases
2. Air borne diseases
3. Vector borne diseases

1.FOOD AND WATER BORNE DISEASE

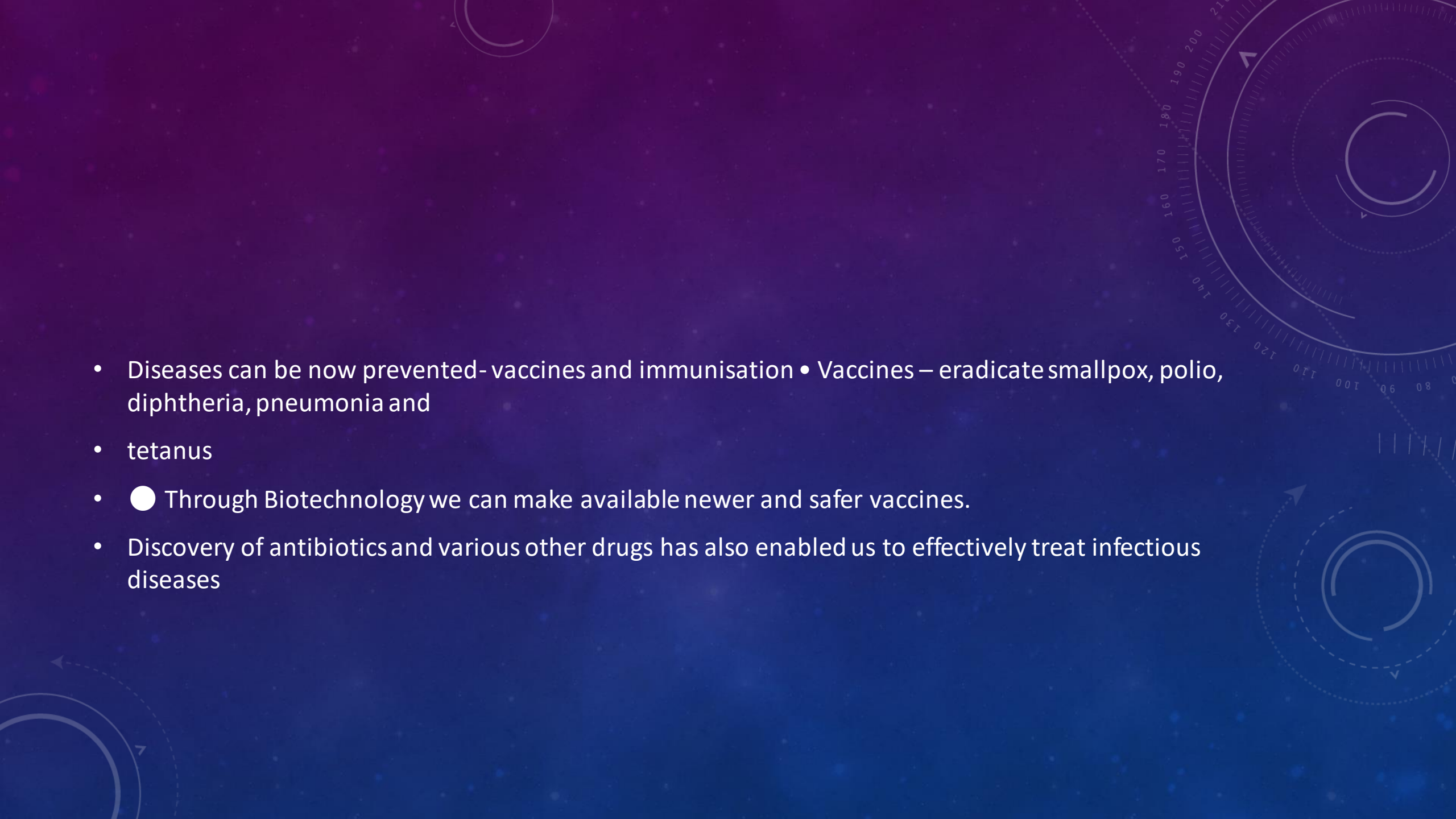
- Proper personal hygiene include keeping the body clean;
- consumption of clean drinking water, food, vegetables, fruits, etc.
- • Proper public hygiene which includes proper disposal of waste and excreta; periodic cleaning and disinfection of water reservoirs, pools, cesspools and tanks and observing standard practices of hygiene in public catering.
- Eg.- typhoid, amoebiasis and ascariasis

2.AIR BORNE DISEASES

- Close contact with infected person & their belongings should be
- avoided ● Personal hygiene is also very important to prevent diseases
- Eg.- Pneumonia and Common cold

3. VECTOR BORNE DISEASE

- Controlling or eliminating the vectors and their breeding places.
- Avoiding stagnation of water in and around residential areas, regular cleaning of household coolers, use of mosquito nets
- Introducing fishes like Gambusia in ponds that feed on mosquito larvae, spraying of insecticides in ditches, drainage areas and swamps, etc.
- • Doors and windows-wire mesh to prevent the entry of mosquitoes.
- Aedes & Culex mosquitoes, Houseflies Malaria, Filariasis, Dengue and Chikungunya

- 
- Diseases can be now prevented- vaccines and immunisation • Vaccines – eradicate smallpox, polio, diphtheria, pneumonia and
 - tetanus
 - ● Through Biotechnology we can make available newer and safer vaccines.
 - Discovery of antibiotics and various other drugs has also enabled us to effectively treat infectious diseases

to effectively treat infectious diseases





