Chronic carrier Hepatitis BVirus ,Salmonella Typhi	Direct Hepatitis B+ Influenza (droplet spread,sneezing,coughing or talking)
Botulism. Clostridium botulinum Soil reservior ,but food contains spore	Indirect Airborne(measles)
Human reservoir=>smallpox ,1977 measles, mumps, streptococcal infection, many respiratory pathogens+ sexually transmitted diseases	Vehicleborne Food (clostreniam Botulinum,E.coli) Water (Hepatitis A ,E coli) Biologic products (blood) Fomites
Zoonosis Brucellosis (cow +pigs) Anthrax (sheep) plague (rodent) Trichinellosis (swine,pigs) Rabies (bat ,raccoon,dogs)	Vectorborne mechanical and biological Mosquitoes, fleas, lice, ticks (malaria) From mother to child Vertical: Just before or after birth
Animal reservoir (HIV/AIDS) (Ebola infection) (SARS) Environmental reservoir (Histoplasmosis,soil)fungal agent	Via placenta,breast milk Diseases can transmit from mother to baby HIV/Hepatitis C
(Legionnaires (Legionella pneumophila), water in cooling towers)	Influenza same portal entry +exit
Portal of exit Influenza +Mycobacterium tuberculosis (respiratory tract) Schistosomes (urine)	Portal entry Skin (hookworm) Mucous membrane (syphilis) Blood (Hepatitis B/HIV)
Cholera vibrio (feces) Sarcoptes scabiei (scabies skin lesions) Rubella,syphilis,toxoplasmosis (bloodborne,placenta from mother to fetus) Hepatitis B(cut or needles) Malaria (blood sucking insect)	Host: malaria (sickle cell trait protect from it)so malaria can't infect it

measles, hepatitis A, influenza and several other diseases become infectious a few days before the onset of symptoms.

unapparent infection frequent tubercle bacillus

clinical disease frequent; few deaths measles virus

infections usually fatal rabies virus

Disease with its information

Hepatitis B Virus (HBV):

- Transmission: Bloodborne, (cuts, needles)--portal of exit
- Chronic carrier state possible.
- · Portal of Entry: Blood.

Salmonella Typhi:

- Chronic carrier state possible.
- · Associated with foodborne illnesses.

Hepatitis C

• transmit from mother to baby

Syphilis

- Bloodborne, placenta from mother to fetus
- Portal of entry:Mucous Membranes

Histoplasmosis

- · Reservoir: Soil.
- Agent: Fungal infection.

Botulism

- Bacteria: Clostridium botulinum.
- · Reservoir: Soil; spores contaminate food.
- Transmission: Vehicleborne (via contaminated food).

Marlaria

- · Portal of exit:blood sucking insect
- Mode of transmission: Vectorborne mechanical and biological Mosquitoes, fleas, lice, ticks
- · sickle cell trait protect body from it

Smallpox

- Eradicated in 1977.
- Reservoir: Humans.

Hepatitis A

- Reservoir: Food or water.
- Transmission: Vehicleborne.
- Becomes infectious days before symptom onset.

Influenza

- Reservoir: Humans.
- Portal of Exit: Respiratory tract (sneezing, coughing).
- Transmission: Direct (droplets).
- · Becomes infectious days before symptom onset.

HIV/AIDS

- Reservoir: unkown animal ,Humans (blood, breast milk,).
- transmit from mother to baby

Rabies

- Reservoir: Bats, raccoons, dogs.
- · infections usually fatal.

Measles

- · Reservoir: Humans.
- Transmission: Airborne.
- · Becomes infectious days before symptom onset.
- clinical disease frequent; few death.