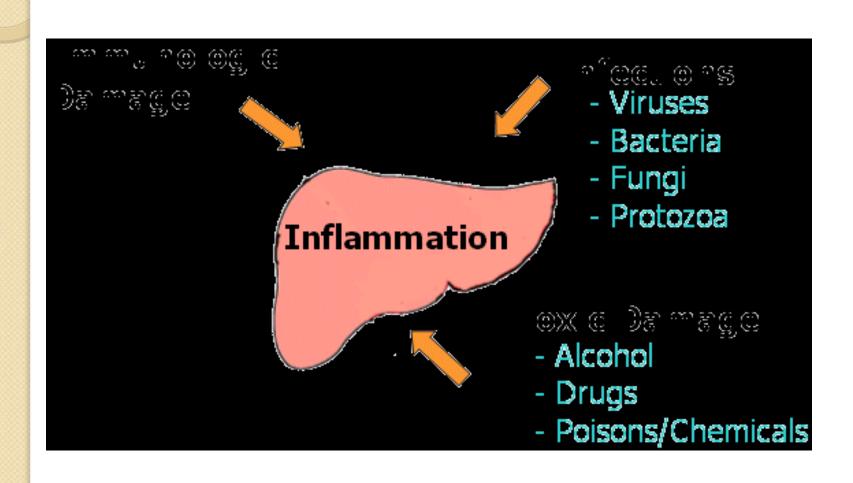
<u>HEPATITIS</u>



by
Osama Wredat

HEPATITIS = inflammation of liver



Viral Hepatitis

5 types:

A: fecal-oral transmission

B: sexual fluids

C: blood to blood

D: travels with B

E: fecal-oral transmission

Vaccine Preventable

HEPATITIS - causes

- ACUTE:
- Viral hepatitis
- Non-viral infection
- Alcohol
- Toxins
- Drugs
- Ischemic hepatits
- Autoimmune
- Metabolic diseases

- CHRONIC:
- Viral hepatitis
- Alcohol
- Drugs
- Non-alcoholic steatohepatitis
- Autoimmune
- Heredity

HEPATITIS - symptoms

- ACUTE:
- Malaise
- Muscle and join ache
- Fever
- Nausea or vomiting
- Loss of apetite
- Abdominal pain
- Dark urine
- Jaundice

- CHRONIC:
- Malaise, tiredness, weakness
- Weight loss
- Peripheral oedema
- Ascites

Hepatitis A

- Transmission: faecal-oral
- Incubation: 2-6weeks
- High-risk countries:
 Eastern Europe, Africa, Asia, South America

In these regions almost every child comes into contact with the hepatitis A virus before the age of 10

• The proportion of symptomatic forms and complications increase with age

Prevention: hygienic measures
 passive immunization (gives <3 months immunity to those at risk)</p>
 active immunization

• Treatment: nospecific, dietary food and long rest

CHRONIC LIVER DISEASE DOES NOT OCCUR!

Hepatitis B:

ACUTE

CHRONIC- 5-10%

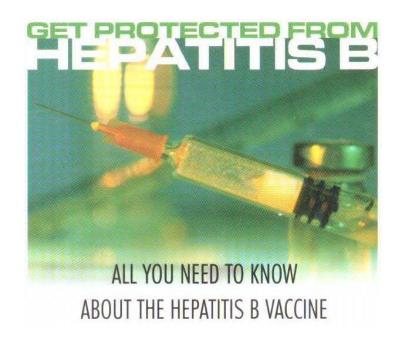
(infection >6months)

 Every year I to 2 million people die due to an infection by this virus

complications of chronic hepatitis

- Transmission: blood and body fluids, iv drug abusers, sexual transmission
- Incubation: I-6 months
- Hepatitis B virus primarily interferes with functions of the liver by replicating in liver cells
- During HBV infection, the host immune response causes both hepatocellular damage and viral clearance

- Prevention: vaccination
- Treatment: chronic- PAGinterferon-2α, antiviral drugs (lamivudine...)



Hepatitis D

 Subviral satellite because it can propagate only in the presence of hepatitis B

coinfection

superinfection

 Transmission: parenteral (intravenous drug use mostly)

> 60% develop <u>cirrhosis</u>

Hepatitis C

ACUTE

CHRONIC 50-80%

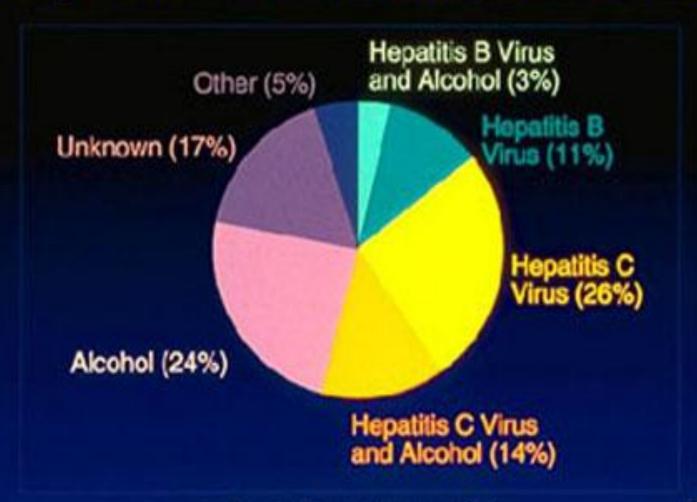
first 6 months after infection 60-70% asymptomatic often asymptomatic **HCV**

more than 6 months most patients develop chronic 1/3 progress to cirrhosis in 20y

Infects 3-4 million people per year

- Transmission: blood
- Incubation: 2weeks 6months
- No vaccine!
- 35% of patients infected with HIV are also infected with hepatitis C virus

Primary Causes of Chronic Liver Disease*



*Jefferson County, Alabama, USA



Alcoholic hepatitis

Major cause of liver cirrhosis in the Western world

