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News: Hepatitis

A recent study by Sir Ganga Ram Hospital, New Delhi, indicates that public awareness and knowledge regarding Hepatitis B, a potentially fatal disease leading to liver cirrhosis and cancer, is insufficient in India.

Hepatitis

- ➤ Hepatitis is an inflammation of the liver.
- The condition can be self-limiting or can progress to fibrosis (scarring), cirrhosis or liver cancer.
- ➤ It can be acute (inflammation of the liver that presents with sickness jaundice, fever, vomiting) or chronic (inflammation of the liver that lasts more than six months, but essentially showing no symptoms).
- ➤ Hepatitis viruses are the most common cause of hepatitis in the world but other infections, toxic substances (e.g., alcohol, certain drugs), and autoimmune diseases can also cause hepatitis.
- ➤ There are 5 main hepatitis viruses, referred to as types A, B, C, D and E.
- > Other viruses may also cause it, such as the varicella virus that causes chicken pox.

- ➤ Other causes include drugs and alcohol abuse, fat buildup in the liver (fatty liver hepatitis) or an autoimmune process in which a person's body makes antibodies that attack the liver (autoimmune hepatitis).
- ➤ Hepatitis is the only communicable disease where mortality is showing an increasing trend.
- ➤ Hepatitis A and E are typically caused by ingestion of contaminated food or water.
- ➤ Hepatitis B, C and D usually occur as a result of parenteral contact with infected body fluids.
- Common modes of transmission for these viruses include receipt of contaminated blood or blood products, invasive medical procedures using contaminated equipment and for hepatitis B transmission from mother to baby at birth, from family member to child, and also by sexual contact.
- ➤ Hepatitis D virus (HDV) infections occur only in those who are infected with HBV.
- The dual infection of HDV and HBV can result in a more serious disease and worse outcome.
- ➤ Hepatitis E virus (HEV) is mostly transmitted through consumption of contaminated water or food.

- ➤ HEV is a common cause of hepatitis outbreaks in developing parts of the world and is increasingly recognized as an important cause of disease in developed countries.
- ➤ Hepatitis C virus (HCV) is mostly transmitted through exposure to infective blood.
- ➤ This may happen through transfusions of HCV-contaminated blood and blood products, contaminated injections during medical procedures, and through injection drug use. Sexual transmission is also possible but is much less common.

Treatment

- ➤ Hepatitis A and E are self-limiting (i.e., they go away on their own) and do not require antiviral treatment.
- ➤ Hepatitis A and B vaccines are available, but Hepatitis C and D vaccines are not.
- > Hepatitis B vaccines provide protection from Hepatitis D virus infection.
- For Hepatitis E, a promising vaccine is in the works.
- > Effective medications for Hepatitis B and C are available.
- Antiviral medications can be used to treat chronic hepatitis B infection.

- Treatment can slow cirrhosis progression, lower the risk of liver cancer, and improve long-term survival.
- ➤ Hepatitis B is included under India's Universal Immunization Programme (UIP) which provides free of cost vaccination against eleven (excluding Hepatitis B) vaccine preventable diseases. i.e., Tuberculosis, Diphtheria, Pertussis, Tetanus, Polio, Pneumonia and Meningitis due to Haemophilus Influenzae type b (Hib), Measles, Rubella, Japanese Encephalitis (JE) and Rotavirus diarrhoea.
- ➤ Bangladesh, Bhutan, Nepal and Thailand became the first four countries in the World Health Organization's South East Asia region to have successfully controlled Hepatitis B.
- ➤ World Hepatitis Day is commemorated yearly on 28th July to increase awareness and understanding of viral hepatitis as a global priority.
- Recently, an automated coronavirus testing device named 'COBAS 6800' was launched which can also detect viral Hepatitis B & C, among others.
- ➤ It can be noted that only for four diseases viz. HIV-AIDS (1st December), TB (24th March), Malaria (25th April), and Hepatitis, the World Health Organization (WHO) officially endorses disease-specific global awareness days.

Global Scenario

➤ Approximately 354 million people are suffering from hepatitis B and C.

- ➤ Southeast Asia has 20% of the global morbidity burden of hepatitis.
- About 95% of all hepatitis-related deaths are due to cirrhosis and liver cancers caused by the hepatitis B and C virus.

Indian Scenario

- ➤ Viral hepatitis, caused by hepatitis viruses A through E, still remains a major public health problem in India.
- India has "intermediate to high endemicity" for Hepatitis B surface antigen and an estimated 40 million chronic HBV infected people, constituting approximately 11% of the estimated global burden.
- > Population prevalence of chronic HBV infection in India is around 3-4 %.