



PROJECT PRAKASH

KEY LEARNING POINTS

Training: Hepatitis Induction Program

Topic: Viral Hepatitis B, C, & D

Faculty: Ms. Tarika Sharma, Lecturer, CON, ILBS

Period: 2021 -2022

Attendees: In-Service Nurses

Viral Hepatitis means inflammation (swelling or enlargement) of liver due to viruses.

Viral Hepatitis B, C & D are blood borne viruses.

Classification of HBV, HCV & HDV

	HBV	HCV	HDV
Family	Hepadnaviridae	Flaviviridae	Delta agent (satellite virus)
Nucleic Acid	dsDNA	ssRNA	ssRNA
Routes of transmission	Parenteral- infectious blood or body fluids	Parenteral - infected needles & unsafe injections	Parenteral - Requires HBV replication for its multiplication
Chronic	Yes; high risk of cirrhosis & HCC	Yes; high risk of cirrhosis & HCC	Yes, leads to severe course of liver disease
Oncogenic potential (HCC)	Yes	Yes	-
Vaccine	Yes	No	HBV vaccine is protective for HDV also
Incubation Period	75 days (30 – 180 days)	2 weeks – 6 months	Occurs as a super or co-infection to HBV

Laboratory Diagnosis of HBV, HCV & HDV

HBV	HCV	HDV
Liver function tests Serological markers HBcAg HBsAg HBeAg Anti-HBs Anti-HBe IgM anti-HBc IgG anti-HBc	 Liver function tests Anti HCV HCV-RNA Testing Genotyping Liver biopsy No marker to distinguish between acute and chronic infections	 PCR IgG anti-HDV IgM anti- HDV.





Treatment of HBV, HCV & HDV

HBV	HCV	HDV
Acute InfectionNo specific Treatment	Hepatitis C is curable.Effective Direct acting	Acute InfectionSupportive care is given
Treatment is supportive	antivirals (DAAs).	
	Three pan-genotypic	Chronic Infection
Chronic Infection	regimens approved by WHO.	 High-dose interferon alfa
Oral antiviral agents -	 Sofosbuvir, Daclatasvir, 	(IFN-a) with or without
Tenofovir or Entecavir	Velpatasvir, Ribavirin are	Tenofovir may be used.
Continues life-long	used	
Routine follow up	Treatment duration: 12-24	
Prevent liver damage &	weeks.	
HCC		

Prevention of HBV, HCV & HDV

HBV	HCV	HDV
Hepatitis B vaccine	 Follow Universal 	HBV-HDV Co-infection
Maternal screening for	precautions	Pre or post exposure prophylaxis to prevent HBV
HBsAg	 Safe injections & safe blood 	infection
Safe sexual practices		HBV-HDV Super-infection Education to reduce risk
Do not share needles		behaviours among persons with chronic HBV infection
Universal precautions for HCWs		

Nursing Management

Patient Education

- o Explain importance of adherence, monitoring and follow up.
- Limit or avoid alcohol and quit smoking
- o Intake of healthy diet
- o Mental well-being and physical exercise

Family Screening & Counselling

- Ensure sexual partner(s), household members, and drug use partner(s) are tested and immunized/vaccinated.
- o Inform: risk for transmission to sex partners. Use Barrier protection.
- o Avoid sharing personal items such as toothbrushes or razors.
- o Donating blood, organs, tissue, or semen can spread HBV to others.

In-patient Management

- o Regular blood tests to check the function of the liver.
- Keep all appointments.





- Monitoring of Complications
 - o For Cirrhosis, Liver Failure & HCC.

PRAKASH | PRogrammed Approach to Knowledge And Sensitization on Hepatitis