



# PROJECT PRAKASH

#### **KEY LEARNING POINTS**

**Training:** Hepatitis Induction Program **Topic:** Viral Hepatitis in Children

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Period: 2021 -2022

Attendees: In-Service Nurses

Hepatitis A virus is the most important single etiological agent for pediatric liver diseases.

#### Acute Viral Hepatitis

- Always exclude HAV, HEV, HBV in all AVH cases
- Also, do Anti HCV Silent/Chronic cases
- Complete evaluation in all cases to rule out co-infection
- Test for other non-hepatotropic viruses (Serology/PCR) if:
  - If acute liver injury + Negative classical serology
  - o Choose as per clinical picture

### Warning Signs in AVH

- Deepening Jaundice
- · Excessive sleepiness, Abnormal behaviour
- Loss of appetite, Persistent vomiting
- Coagulopathy, Bleeding from any site
- Fever
- Seizures
- Cola coloured urine
- Abdominal distension

#### When to suspect underlying CLD

- Positive family or past history of liver disease
- Decompensation (Ascites, Encephalopathy)
- Firm Organomegaly
- USG:
- Coarse Echotexture, Nodularity
- · Collaterals, Splenomegaly

#### Diagnostic Work up

Standard Work up	Etiological Work up		
• LFT	All patients:		
PT-INR	o IgM HAV		
USG Abdomen	○ IgM HEV		
	○ HbsAg, IgM Anti Hbc		
	o Anti HCV		
	Selected patients/if above negative:		
	○ IgM CMV/EBV/VZV/HSV/Dengue/		
	Parvo/Adeno virus		





#### **General Treatment Guidelines**

- Parental & Doctor's Reassurance
- Normal Diet, Plenty of Fluids
- No medications needed (in majority)

## Specific Treatment (only for minority):

- Antivirals for Hepatitis B (Needed in < 5 % only)</li>
- Others: HSV, Varicella, CMV etc
- No restriction on Diet
- No Bed Rest needed
- No restriction on Salt, Fat, Spices, Turmeric
- Do not encourage herbal medicine intake
- No need to increase intake of glucose water, sugarcane juice.

# **Chronic Viral Hepatitis**

	HBV	HCV		
•	HBV in children mostly occurs through	Vertical Transmission.		
	perinatal transmission.	<ul> <li>20% clear infection without any treatment</li> </ul>		
•	Risk of chronicity is high among infants.	(first 2-4 years of life).		
	<ul> <li>Almost 90% infants develop chronic HBV infection.</li> </ul>	• Remaining 80% develops chronic infection.		
•	Antiviral therapy required only a minority of in children with chronic HBV.  O Referral to a Paediatric gastroenterologist/Hepatologist is necessary.	Treatment should be immediately started after consultation with a Pediatric gastroenterologist/Hepatologist.		

# Family Screening & Vaccination - Hepatitis B

	HBsAg	Total Anti-HBc	Anti-HBs	Status	Remarks
1.	-	+	<10 mIU/mL	Exposed	Offer vaccination
2.	-	•	<10 mIU/mL	Unexposed Unimmunized	Offer vaccination
3.	-	-	>10 mIU/mL	Unexposed Immunized	No vaccination
4.	+	+	<10 mIU/mL	Infected	Further testing HBeAg, Anti-HBe, DNA

♣ Pick up HBV/HCV early- Screen family/high risk groups.

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