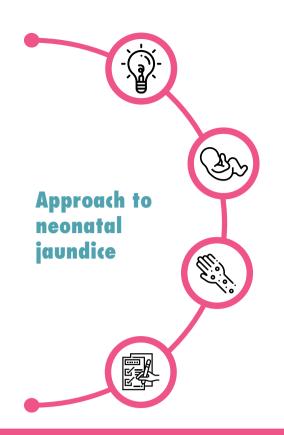




Standard Treatment Workflow (STW) NEONATAL JAUNDICE IN INFANTS ≥ 35 WEEKS ICD-10-P59.9



VISUAL ASSESMENT

Examine the baby in bright natural/white fluorescent light

Make sure the baby is naked and no yellow/ off white background

Examine blanched skin

Assess severity of jaundice

LOOK FOR THESE RISK FACTORS

- · Gestation < 38 weeks
- Previous sibling requiring treatment for jaundice
- Blood group incompatibility (ABO/Rh)
- · High prevalence of G6PD deficiency
- Exclusively breast fed baby with weight loss >3% per day; or >10% cumulative
- · Total serum bilirubin (TSB) / Transcutaneous bilirubin (TcB) value in the high/ high-intermediate risk zone

ASSESSMENT OF SEVERITY OF JAUNDICE

Clinical examination every 12 hrs during the initial 3 to 5 days of life; use TcB if available



		KRAMER ZONES	APPROX SERUM BILIRUBIN
5	1	Face and neck	4 to 6 mg/dL
	2	Chest and upper abdomen	8 to 10 mg/dL
	3	Lower abdomen and thighs	12 to 14 mg/dL
	4	Legs and arms/ forearms	15 to 18 mg/dL
	5	Palms and soles	>15 to 20 mg/dL

ASSESS IF THE BABY HAS **SERIOUS** JAUNDICE*?

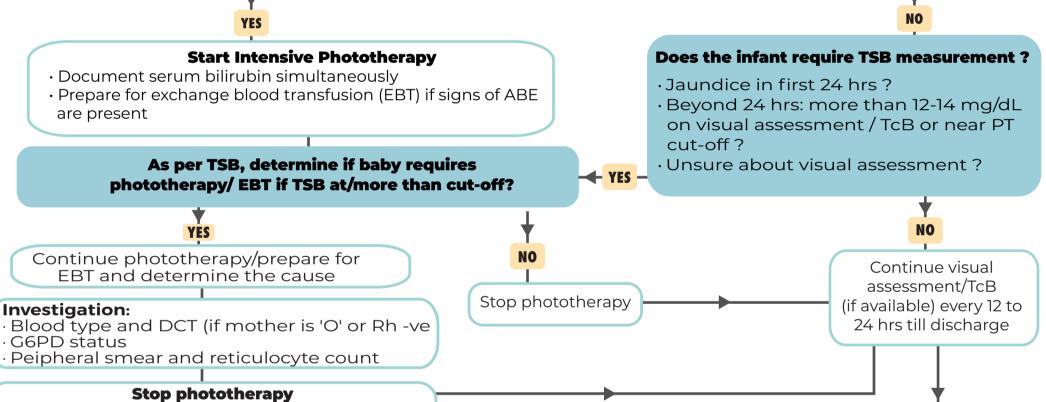
SERIOUS JAUNDICE

 Visible jaundice in first 24 hrs OR Yellow palms and soles anytime OR Signs of acute bilirubin encephalopathy (ABE) like poor suck/feeding, lethargy, hypotonia OR Abnormal posturing such as arching, retrocollis, opisthotonus, convulsion,

fever, high pitched cry

MANAGEMENT





TSB falls below 13-14 mg/dL or 2 mg/dL below cut-off

ENSURING OPTIMAL PHOTOTHERAPY

- · Keep the baby naked (only small nappy to cover the genitalia and eye covers)
- · Place the baby close to the lights
- · Phototherapy can be interrupted for feeding & clinical procedures
- · Encourage frequent breastfeeding · Monitor temperature regularly
- · Maintain equipment as per manufacturer's instructions
- · Frequency of repeat TSB measurement depends on cause, severity, age and gestation
 - Hemolytic jaundice: 6 to 8 hourly during initial 24 to 48 hrs
 - · Non-hemolytic jaundice: 12-24 hourly

ENSURING OPTIMAL EXCHANGE BLOOD TRANSFUSION (EBT)

- Immediate EBT is
- recommended if infant shows signs of ABE or if TSB is above the recommended age and risk specific cut off
- Exchange volume = Twice the estimated blood volume of 80-100 mL/kg

DISCHARGE ADVICE

- · Reinforce breastfeeding at discharge
- · If discharged before 72 hrs; follow up at 48 to 72 hrs after discharge

SOME IMPORTANT DO'S 🗸

SOME IMPORTANT DON'TS X

Sunlight should not be used for treatment of hyperbilirubinemia Encourage frequent breastfeeding Avoid exposure to naphthalene balls Do not rely on visual assessment/TcB while the baby is under phototherapy Complete evaluation of newborn is important to Do not give phenobarbitone for treatment of hyperbilirubinemia evaluate for risk factors and underlying causes Do pre-discharge risk assessment Do not stop breastfeeding

ABBREVIATIONS

ABE: Acute bilirubin encephalopathy **EBT:** Exchange blood transfusion **DCT:** Direct coombs test **G6PD:** Glucose-6-phosphate dehydrogenase

TcB: Transcutaneous bilirubin

TSB: Total serum bilirubin

- **REFERENCES** 1. Screening, Prevention and Management of Neonatal Hyperbilirubinemia. Clinical Practice Guidelines. National Neonatology Forum India 2020.
- www.nnfi.org/cpg 2. Management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation. American Academy of Pediatrics Practice Guidelines. www.cdc.gov

■ HYPERBILIRUBINEMIA IS A PREVENTABLE CAUSE OF BRAIN DAMAGE