Hyperbilirubinemia Pathway

Inpatient ≥ 35 Weeks Gestational Age (GA)

- In TSB ≥ phototherapy (PTX) threshold? Use www.bilitool.org with birth and sampling times.
- Is TSB within 2mg/dL of Exchange Transfusion threshold?
  - Yes
    - Start intensive PTX
  - No
    - Admin/Transfer to NICU

- First of PTX threshold, then refer to ED/OP/CP algorithm and home PTX criteria

- Does TSB rise to within 2 mg/dL of ET threshold?
  - Yes
    - Not at PTX threshold, then refer to ED/OP/CP algorithm and home PTX criteria
    - Resume PTX
  - No
    - Discontinue intensive PTX therapy

- Neurotoxicity risk factors:
  - Gestational age < 38 weeks
  - Serum albumin concentration < 3.0 g/dL
  - Ischemic hemolytic disease (HDAT), G6PD deficiency, or other hemolytic conditions
  - Sepsis
  - Significant instability in last 24 hours

- Measure G6PD activity if:
  - Unclear etiology of hyperbilirubinemia AND
  - TsB increases despite PTX
  - TsB increases after an initial decline
  - Escalation of care is required

- Obtain labs:
  - Hemoglobin/hematocrit or CBC
  - DAT if positive maternal antibody screen, maternal O blood type, or maternal Rh(D) type negative
  - Consider G6PD activity, based on criteria

- Does TSB continue to be above PTX threshold or < 2 mg/dL below PTX threshold?
  - Yes
    - Discharge with PCP follow-up in 1-2 days
  - No
    - Trend TsB at least q12 hours

- Did infant require PTX before 48 hrs of life, have a +DAT, or have known or suspected hemolytic disease?
  - Yes
    - Admit/Transfer to NICU
  - No
    - Check rebound TsB in 6-12 hours and the day after PTX discontinuation

- Is rebound TsB less than PTX threshold?
  - Yes
    - Neurotoxicity risk factors
  - No
    - Resume PTX

Disclaimer: Pathways are intended as a guide for practitioners and do not indicate an exclusive course of treatment nor serve as a standard of medical care. These pathways should be adapted by medical providers, when indicated, based on their professional judgement and taking into account individual patient and family circumstances.

ChildrensNebraska.org/Pathways
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