

~~HEMOLYTIC DISEASE~~ NEONATAL JAUNDICE.

Bilirubin - heme breakdown.

RBC $\rightarrow$ hemoglobin.

$\begin{array}{ccc} & \swarrow & \searrow \\ \text{hene} & & \text{globen} \\ \downarrow & & \downarrow \\ \text{hene origine.} & & \\ \text{Bilveedus.} & & \end{array}$

↓ *S. schubae*.

Disinfectant
 + all way. Ont, q₁

Agglutination of RBCs in peritoneal
newborn balance $\Rightarrow$ P abs
from GI (entero hepatic circulation)

physiological jaundice:

24 - 72 hours

pathological gandice

- pathological
- ① within 24 hours.
 - ② ser. Bil. > 15
 - ③ $\uparrow$ in Bil 5mg/dL per day
 - ④ Gp incompatibility
 - ⑤ direct Bilirubin $> 1\text{mg/dL}$.
Clay coloured stool
highly coloured urine?
 - ⑥ persists for 3-4 weeks

Types.

Types:
Brest feeding glands.

Break with Paradise

- Grad feeding $\downarrow$ - inadequate breast feeding causing $\downarrow$

does not get excited appropriately,

Breast milk $\rightarrow$ $\uparrow$ glucose-
oxidase $\rightarrow$ increased activity.

1mg Hb $\rightarrow$ 34 mg Bilirubin

Inspection

- Ingestion
- yellow bulbar conjunctiva stains cephalo-caudally.
 - palm - sole - 13-15 ng/dl
 - face & neck - 5-7 ng/dl
 - chest & v. abd → ± 9 ng/dl.
 - L abd, pelvis, thigh. - 9-11 ng/dl
 - leg & forearm 13 - 13 ng/dl.

MODIFIED KRAMER'S SCALE. 3

- ~~trans cutaneous~~ Bilirubinometry
 - Serum Bilirubin
- } investigation

Risk factors

PR life span $\rightarrow$ 90 days

- Polycythemia babies.
- ↑ RBC count (polycythemia).
- ↓ RBC life span.
- defective conjugative enzymes.
- obstruction in GIT.
- cholestasis.
- Acidosis (alb level ↓ so gets dissociated).
- ↑ hemolysis.
 - Group, RH incompatibility
 - Hereditary spherocytosis
 - Thalassemia.
 - Hemolytic disease.
 - G6PD deficiency
- New born sepsis
- (1) → Diabetes (↑ chance of polycythemia)

- Cephalhaematoma
- Infections
- long birth wt

3 months
Nervous deopt

causes

hemolytic Non hemolytic

Management Tests

- Check Rec. Bb
- Check for hemolysis
 - Hb levels (decreased)
 - anemia (RBC count)
 - blood grouping
- WBC count for infections
 - look for antibodies (Coomb's test)
- Smear (PBS) - look for shape eg. spherocytes.
 look for hemolysis
- Retic count
- Thyroid Function tests
Cong. hypothyroidism

Management

- ① Phototherapy
 - ② Blood transfusion
- Blue UV light
 - 460-490nm
 - replace babies
 - expose all region except eye & genital region

Prevention

- ↓
seizure irritability tone ↑
↓
neurotoxicity
risk factors:
 - hypalbuminemia
 - preterm (premature)
 - sepsis
 - hemolytic d/s.
 - acidosis

cord Bb > 5mg/dL } Indication for transfusion
 cord hb < 10g/dL }