

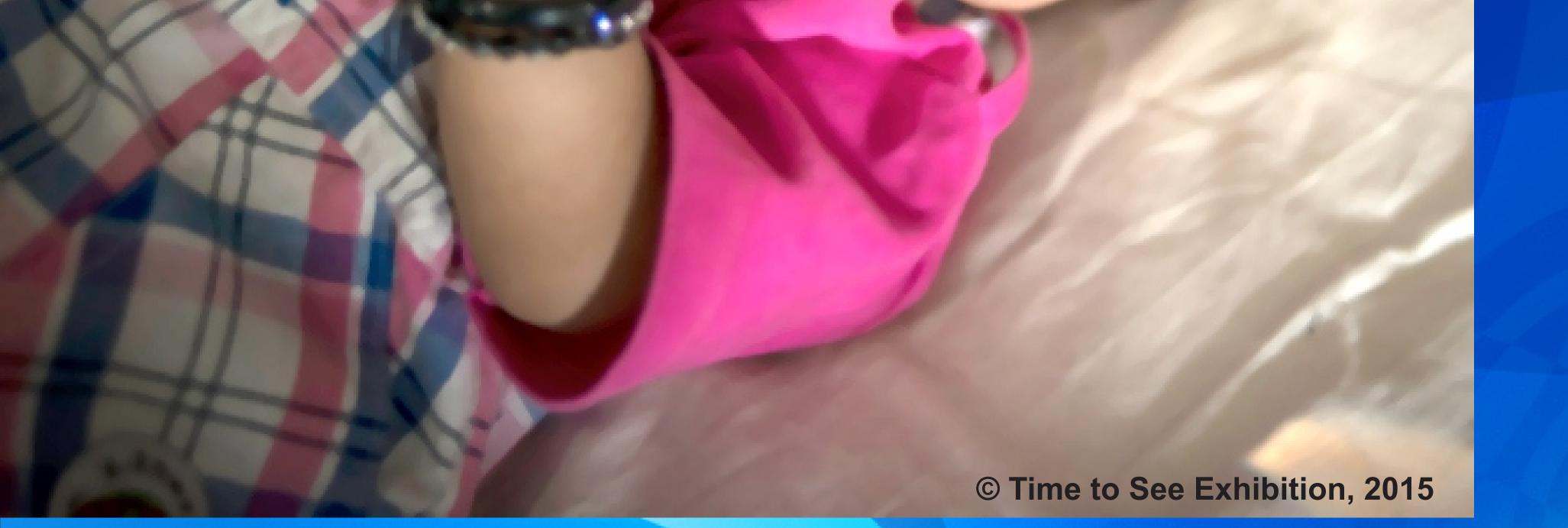
Retinal eye screening for preterm bables



30 DAYS

prevent blenchess

32,000 infants to go blind every year due to Retinopathy of





Are you reaching out to an ophthalmologist for weekly screening at your NICU/SNCU?

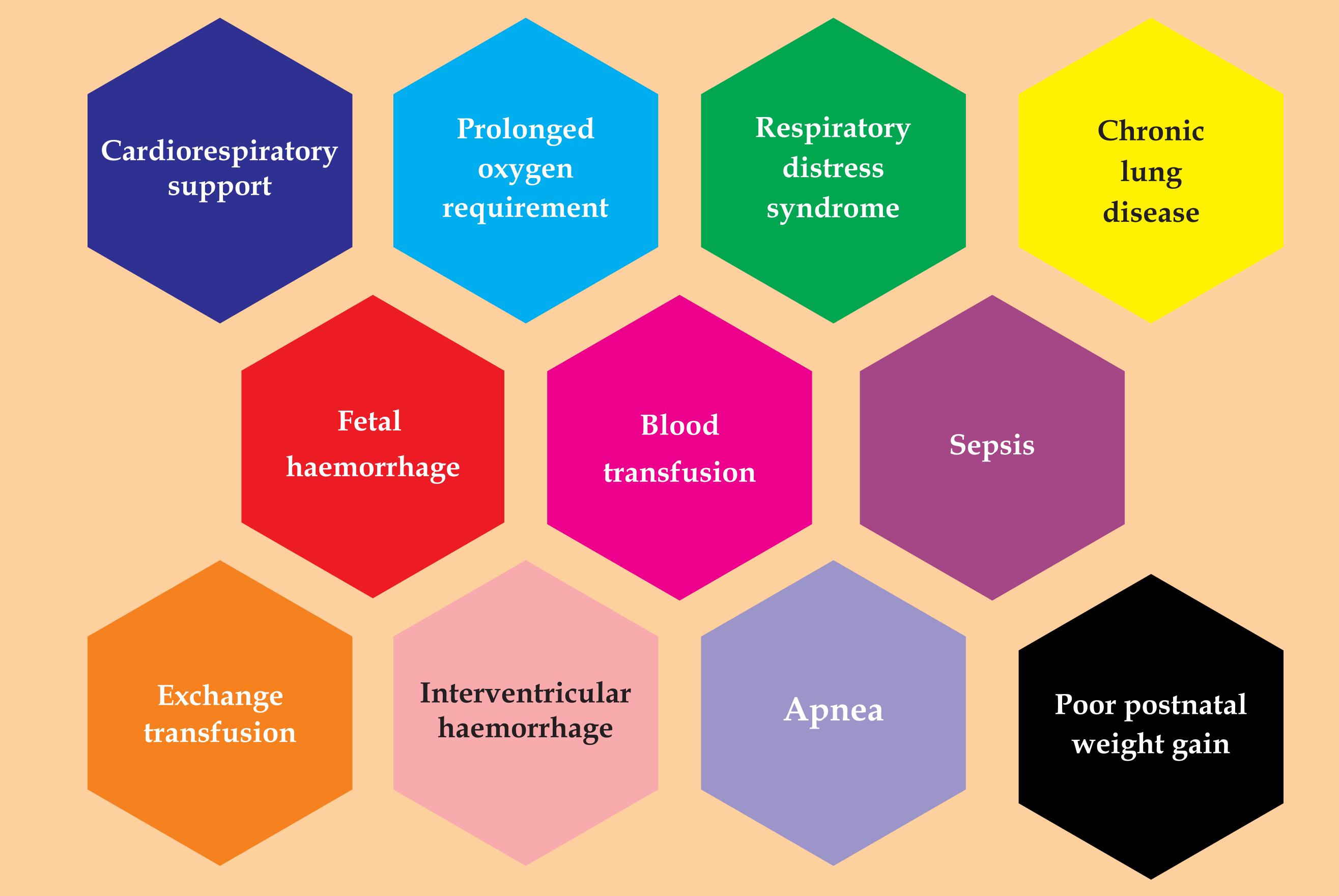


Ready Reckoner To Prevent And Manage Retinopathy Of Prematurity (ROP)

Which babies to monitor?

• Born at 34 weeks or less gestational age OR weighing 2000 grams

or less at birth Having any other risk factor



Protect newborn vision, be the light!



- Avoid oxygen administration if the baby has good respiratory efforts
- Display oxygen saturation recommendation on the wall in the NICU
- Return to birth weight beyond 14 days of life is an important risk factor for ROP
- Avoid hypotension. Target mean blood pressure as per norms for gestational age
- Avoid interrupting intravenous infusion lines once initiated
- Discard intravenous fluid bottle 24 hours after it has been opened

RETINOPATHY OF PREMATURITY

OUT OF 10 BABIES in INDIA ARE PRETERM

Roles and Responsibilities of Obstetricians to prevent blindness in preterms

- Prevent prematurity in high risk cases
- Administer antenatal steroids for threatened preterm delivery
- Judicious oxygen therapy for newborn
- Promote institutional delivery
- Promote and facilitate exclusive breast feed

+ Counselling families for timely screening of preterm babies



Target group for ROP screening



 \blacklozenge All infants born at \leq 34 weeks

- \blacklozenge All infants born at \ge 34 weeks with risk factors
- ♦ All infants weighing ≤ 2000 grams at birth
- Other preterm infants based on the discretion of the pediatrician or neonatologist







Precaution and Procedure for Screening

- **1. The 'step-down room' of the NICU is ideal.**
- **2. Last feed should be 1 hour prior to examination.** Swaddle the infant with warm, linen wraps.
- **3. Dilate pupils & use an indirect** ophthalmoscope or Retcam for



ROP screening.

4. An infant depressor and an infant wire speculum are essential.

5. Monitor for apnea and bradycardia.



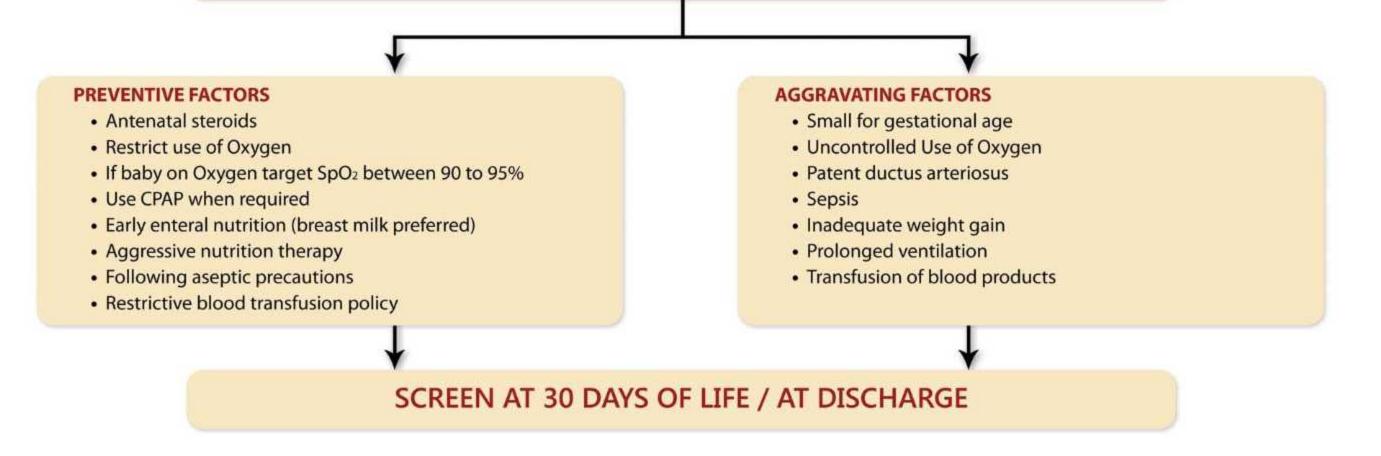
RETINOPATHY OF PREMATURITY

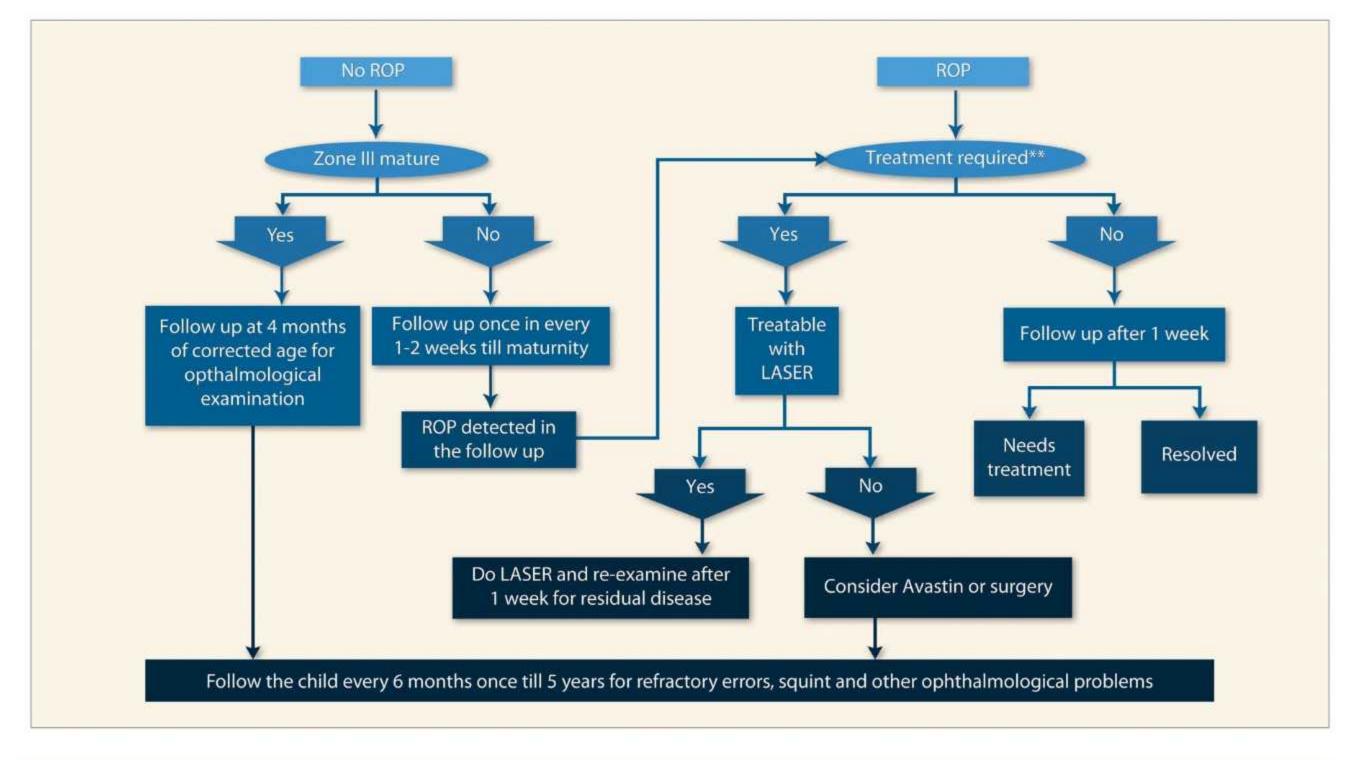
WHOM TO SCREEN?

Gestation < 34 weeks Or Birth weight < 2000 grams

Any preterm infant with risk factors

- Cardiorespiratory support Prolonged oxygen requirement Respiratory distress syndrome
- Chronic lung disease Fetal hemorrhage Blood transfusion Sepsis Exchange transfusion
- Interventricular hemorrhage Apnea Poor post-natal weight gain





Early screening and appropriate treatment is the key to success

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