

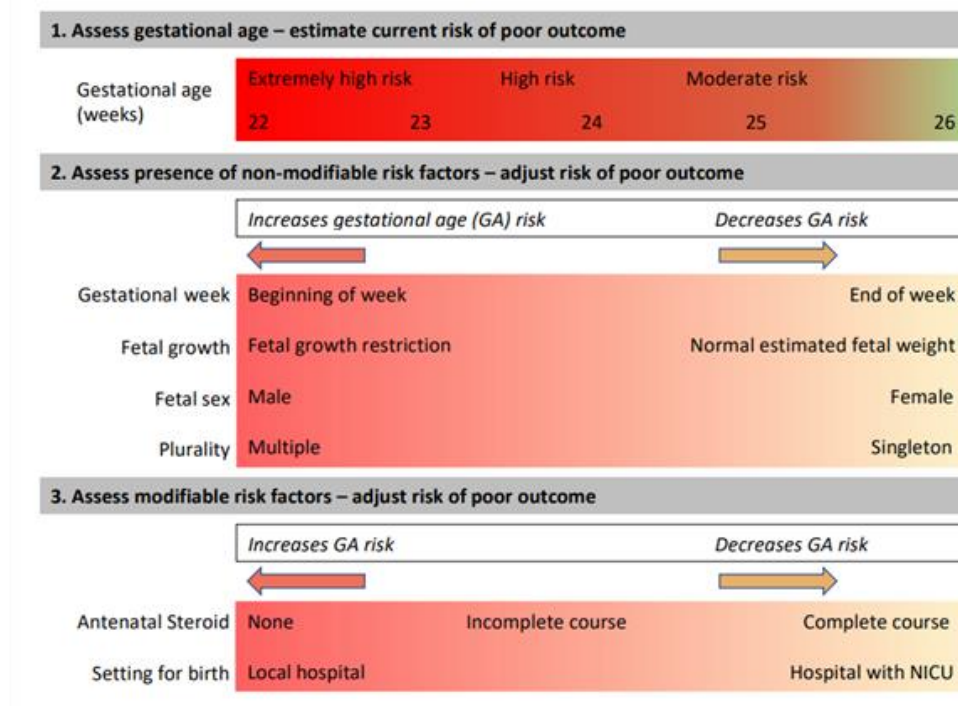
# BABIES BORN EXTREMELY PREMATURELY: 22<sup>+0</sup>–26<sup>+6</sup> WEEKS GESTATION

## INTRODUCTION

- Outcomes for babies born very preterm improve with each additional week of gestational age; and have improved for any given gestation over time (see EPICure studies <http://www.epicure.ac.uk>)
- **Make all efforts** to enable discussions between consultant-led obstetric and neonatal/paediatric teams and parents-to-be to take place **before** the birth of the baby
- See **BAPM framework for practice** <https://www.bapm.org/resources/80-perinatal-management-of-extreme-preterm-birth-before-27-weeks-of-gestation-2019> to inform discussions and make an individualised clearly documented plan for the management of the baby
- Once the baby is born, further management decisions should be made in the baby's best interests, taking into account:
  - prognostic factors
  - discussions between obstetric and neonatal teams and parents-to-be
  - clinical condition at birth
  - response to stabilisation/resuscitative efforts
- In the event of imminent delivery before discussions have taken place (if fetal heart heard during labour), call neonatal team to attend delivery and request urgent neonatal/paediatric consultant assistance

## MANAGEMENT

- Using the prognostic features from **BAPM Framework for practice**, babies will fall into one of the following groups: extremely high risk; high risk; or medium risk of dying/surviving without a good quality of life



### **Extremely high risk**

- Babies with >90% chance of either dying/surviving with severe impairment if active care is instigated e.g.:
- babies 22<sup>+0</sup>–22<sup>+6</sup> weeks' gestation with unfavourable risk factors
- some babies 23<sup>+0</sup>–23<sup>+6</sup> weeks' gestation with unfavourable risk factors, including severe fetal growth restriction
- (rarely) babies ≥24<sup>+0</sup> weeks' gestation with significant unfavourable risk factors, including severe fetal growth restriction

### **High risk**

- Babies with 50–90% chance of either dying or surviving with severe impairment if active care instituted, e.g.:
- babies 22<sup>+0</sup>–23<sup>+6</sup> weeks' gestation with favourable risk factors
- some babies ≥24<sup>+0</sup> weeks' gestation with unfavourable risk factors and/or co-morbidities

### **Moderate risk**

- Babies with <50% chance of either dying/surviving with severe impairment if active care instituted e.g.:
- most babies ≥24<sup>+0</sup> weeks' gestation
- some babies at 23<sup>+0</sup>–23<sup>+6</sup> weeks' gestation with favourable risk factors

## **MANAGEMENT AT BIRTH**

- Consultant neonatologist/paediatrician should ideally be present at delivery of babies <27 weeks' gestation where survival-focused care may be attempted

### **Extremely high risk**

- Palliative (comfort-focused) care would be in best interests of the baby and life-sustaining treatment should not be offered
- this should be compassionately explained to the parents by the perinatal team
- Generally neonatal team would not attend the birth (however may be helpful for individual families – offer if appropriate)

### **High risk**

- For these babies it is uncertain whether survival-focused management is in the best interests of the baby and their family
- Counsel parents carefully; parental wishes should inform a joint decision to provide either survival-focused or comfort-focused treatment
- Senior neonatal clinician (ideally known to the parents) will attend the birth if at all possible, to lead/oversee implementation of agreed approach

***Counsel parents that the plan for care may need to change based on the clinical condition of the baby before, at or after birth, or subsequently in NICU***

### **Active (survival focused) neonatal management**

- Stabilisation and support for transition to be carried out by/under direct supervision of most senior member of neonatal/paediatric team available (ideally team will be experienced in stabilisation of extremely preterm babies and led by consultant neonatologist)
- Team should be aware of parental wishes, but when the baby is born in **unexpectedly poor, or unexpectedly good**, condition it is reasonable for attending neonatologist to proceed with care in the baby's best interests
- Use optimal cord management and appropriate thermoregulation
- Care should be taken not to over distend lungs when supporting respiratory transition, CPAP may be successfully used in babies from 24<sup>+0</sup> weeks' gestation

- If no response to mask ventilation **and** any doubt around adequacy of ventilation, intubate and administer surfactant [see [Surfactant replacement therapy – including less invasive surfactant administration \(LISA\) technique guideline](#)]
- If the baby does not respond to stabilisation/resuscitative efforts, most senior attending professional to decide if/when attempts should stop
  - absent heart rate/severe bradycardia despite effective cardiopulmonary resuscitation for more than a few minutes is associated with very poor outcome in extremely preterm babies
- Stabilisation normally undertaken in same room as parents
  - offer parents opportunity to see, touch, hold and photograph their baby
- Following successful stabilisation of the baby, the mother should be supported to express breast milk as early as possible (see **Breastfeeding** guideline), with ongoing facilitation of parental contact and family involvement

#### **Palliative (comfort focused) neonatal management**

- Aim is to support the parents and their dying baby, and to avoid interventions that may cause discomfort, pain or separation of the baby from the parents
- Care to be delivered in most appropriate location for the family (may not be NNU, and does not require in utero transfer of mother)
- For some families the presence of a senior neonatologist/paediatrician at delivery may be helpful
  - all involved should understand that respiratory support will not be provided
- Give opportunities and support parents in creating positive memories of their baby
- Offer parents the opportunity to hold and spend as much time as they wish with their baby in a quiet and private location
- In the unlikely scenario of the baby being born in much better condition than expected, palliative management may need to be reconsidered

## **PARENT INFORMATION**

- See <https://www.bapm.org/resources/80-perinatal-management-of-extreme-preterm-birth-before-27-weeks-of-gestation-2019> **Appendix 4: Helping parents to understand extreme preterm birth**