



THE REPUBLIC OF UGANDA

MINISTRY OF HEALTH

UGANDA'S BIRTH ASPHYXIA CARE BUNDLE

PREWAVED

“7 steps to ensuring babies breathe at birth”

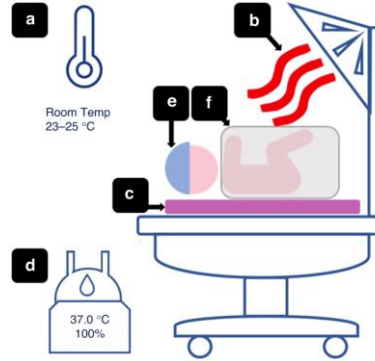
Birth ASPHYXIA BUNDLE (PREWAVED)



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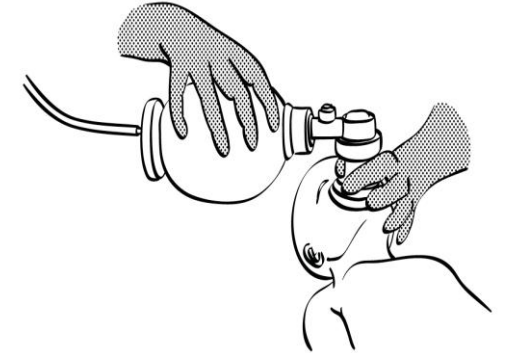
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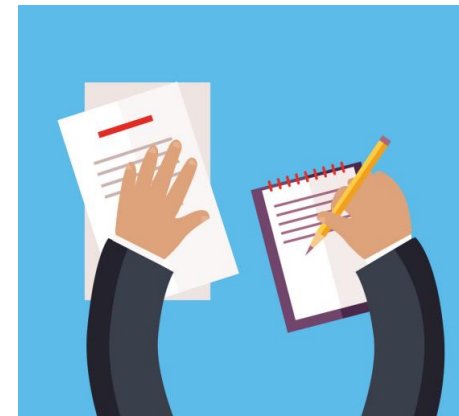
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Proposed Birth ASPHYXIA BUNDLE (PREWAVED)

Prediction of Risk - Early detection of babies at risk of birth asphyxia (ANC & labor)

Readiness – Call For Help ; Delivery decision & Family counselling , Team debriefing

Warmth – Dry baby with sterile linen for baby & a functional warmer in resuscitation area

Airway – (Prepare for suction & Oxygen source with Pulse oximetry)

Ventilate – (Effective bag & mask ventilation follow Algorithm)

Escalate - Stable referral or Admission of the newborn –(Intubation, IV Fluid, Umbilical vein catheterization, Adrenaline)

Documentation- Document all interventions

Birth Asphyxia Bundle- PREWAVED

- **Element 1 : Prediction of Risk**

- Fetal heart rate below 120 beats/minute
- Use of antenatal risk factors to determine fetus at high risk for birth asphyxia
- Avoid hazardous material (herbal oxytocics)
- All mothers in labor are monitored in Labor by partograph/
Labor Care Guide
- Improve decision making for fetal hypoxemia signs
(meconium & blood-stained liquor)



Birth Asphyxia Bundle- PREWAVED

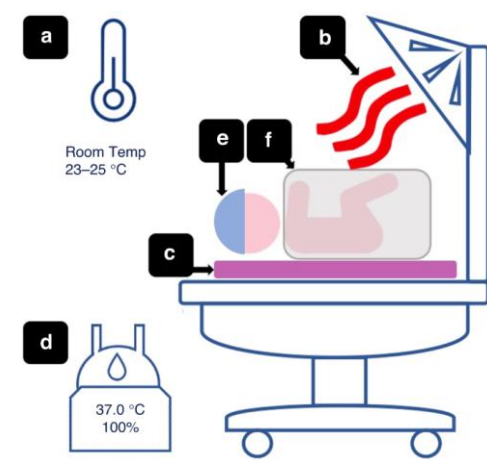


- **Element 2 : Readiness of Delivery room for resuscitation**
 - Call for help for decision making when risk is identified and council the family
 - Call neonatal resuscitation team as difficult delivery is anticipated: Decision to delivery: Cesarean sections performed within 30 – 60 minutes from the decision
 - Intrauterine resuscitation not longer than 30 minutes
 - Ready clean & functional neonatal resuscitation equipment (Ambubag / oxygen / EET tubes available in all the delivery rooms)
 - Where possible have a designated neonatal resuscitation team to attend to high-risk Deliveries and have a team debrief.
 - *The health workers in labour ward certified with neonatal resuscitation – HBB in the lower health units (yearly basis) & Advanced neonatal resuscitation (NRP) for the Regional Referral and tertiary Hospitals (yearly basis)*

Birth Asphyxia Bundle- PREWAVED

Element 3 : Maintain warmth of baby

- Dry sterile linen for baby in delivery room
- Ensure the delivery room resuscitation area is warm
MAINTAIN Temperature of 36.5 C – 37.5 C. The radiant warmer must be functional.
- Turn the radiant warmer on prior to delivery of baby
- Lay baby receiver clothes on the radiant warmer as you await delivery
- This can be done both in labor room & in theater
- Ensure your prepared resuscitation kits are within range



Birth Asphyxia Bundle- PREWAVED



Element 4 : Prepare for suction & Oxygen source with Pulse oximetry

- Ensure suction equipment is ready within the delivery room
- Clean penguin sucker/ suction tubes where available
- A functional pulse oximeter to monitor baby's heart rate
- A potent oxygen source in the delivery room.
- Connect oxygen to the resuscitation bag
- Correctly position the baby



Birth Asphyxia Bundle- PREWAVED

Element 5 : Effective neonatal resuscitation using bag & mask ventilation and follow the Algorithm

- Early appropriate neonatal resuscitation in the delivery Room
- Effective Bag & Mask ventilation
- Ventilate by ETT where possible (At tertiary institutions)
- Follow HBB + protocols for resuscitation
- Initiate delivery room CPAP if signs of respiratory distress/
Hypoxic/ SPO2 less than 90%.



Birth Asphyxia Bundle- PREWAVED

Element 6: Stable referral or Admission of the newborn

Escalate care by admission to neonatal unit after stabilization

- Always escalate care for babies with an **APGAR score less than 7 at 5 minutes**
- Refer if you are at a lower-level facility with no newborn care unit
- Transfer to neonatal unit after stabilization as described above for further care
- Advanced care in presence of skilled teams may be done within delivery room may include Intubation, Umbilical vein catheterization, NG Tube, Adrenaline, Iv fluid for volume expansion
- Transport baby warm from the delivery room to the Neonatal unit
 - Low cost transport bed with oxygen Cylinder, with CPAP, Warmilu/ Exothermic mattress



Birth Asphyxia Bundle- PREWAVED



Element 7 : Documentation of all interventions

- Correctly record the APGAR Score of the newborn during the resuscitation efforts.
- Document all processes, interventions, medications given from time of identification of risk.
- Keep proper records and accurate
- Use neonatal admission tool to administer relevant history for care of the baby upon transfer/ referral
- Maternity teams know the baby's history best. So do not forget to fill neonatal admission form.