# ANIENAIAL AND INTRAPARTUM FETAL **SURVEILLANCE AND RESUSCITATION** – The role of a Neonatologist

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### Neonatologist role

- Multifaceted
- Aims to bridge the gap between prenatal diagnosis and post natal care for a smooth transition for the baby and provision of ongoing support to the family
- Neonatologists should be at the fore front of advancing neonatal care and improving the health and well being of new borns.

### **Key roles**

- Prenatal consultation and planning especially in high risk pregnancies
- Risk assessment
- Counselling and education
- Multidisciplinary collaboration for comprehensive delivery planning
- Presence during delivery and Delivery room care and resuscitation
  - Monitoring vital signs
  - Performing emergency procedures
- NICU
- Post NICU/NBU Care and other evolving roles

### **Prenatal Consultation and Planning**

#### Especially in the following conditions

- High risk pregnancies DM,SPET, Rhesus negative with high antibody titres, Thyroid disease, autoimmune dse
- Congenital anomalies chromosomal disorders, CHD,GIT,CNS
- Poor obstetric history
- Intrapartum risk to the fetus Fetal distress



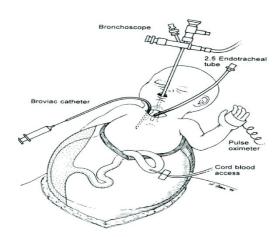




### Risk assessment

It involves understanding the extent of the risk to the fetus and planning accordingly

- Preparation for delivery
  - Resuscitation in DR
  - Thermal neutral environment
  - Respiratory support
- Coordination of care
  - EXIT Procedure
  - NBU/NICU space/bed preparation
- Coordination of interventions
  - Immediate echo, paed surgery, neuro surgery intervention



### Counselling and education

- Counsel especially about complex conditions
- Discuss possible/imminent challenges
- Prepare for arrival and potential NICU stay





# Multidisciplinary collaboration for comprehensive delivery planning

- Multidisciplinary collaboration for comprehensive delivery planning
- Involvement of other disciplines as needed by the baby's condition



### DR Attendance, Care and Resuscitation

- Direct delivery room resuscitation
- Provide care from birth
  - Thermal regulation/warmth
  - Emergency procedures
- Assessment of baby's condition
  - Monitoring vitals and complications
- Provide respiratory support
  - NIRS NPO2, CPAP/BiPAP or
  - IRS Mechanical ventilation
- Provide other necessary intervention eg EXIT



### **NICU**

# Comprehensive care Multidisciplinary team coordination

- Parental support and education
- Respiratory support
- Treatment of infections
- Haemodynamic support/stabilisation
- Management of birth defects
- Coordination of specialised care surgery to ensure comprehensive care and best possible outcome for the infant





## Care beyond the NBU/NICU

- Long term follow up and care
- Developmental assessment
- Managing chronic conditions
- Coordination with paediatricians
- provision of necessary therapy Physiotherapy, OT, ST
- Support for developmental milestones



## **Evolving role – expansion/advancement**

- **Telemedicine** to provide expert consultations and support to remote areas, improving access to specialised neonatal care
- Genetic and genomic medicine intergrating genetic and genomic medicine information into neonatal care to better understand the underlying causes of certain conditions and develop targeted treatment
- Research and innovation participation in research to advance the understanding of neonatal conditions and develop new treatment and interventions that improve outcomes for new borns

## Breath, Live and Thrive – Thank you

