

Neonatology Objectives (CanMeds format)

Medical Expert

- to be able to assess newborn status of healthy full-term newborn, asphyxiated newborn, preterm newborn, cord SGA newborn and the infant with congenital anomalies.
- to be able to determine if resuscitation measures are indicated and to be able to initiate resuscitation including intubation, cardiac respiratory support
- to have knowledge of the physiologic adaptation of fetus to newborn
- to be able to assign Apgar scores
- to be able to interpret cord blood gas analysis
- to have knowledge of the effect of common complications of pregnancy on the fetus and neonate including a) preterm labor b) preterm rupture of membranes c) gestational hypertension d) ISO immunization e) congenital infection f) diabetes
- to evaluate and manage common newborn problems including meconium aspiration, hyperbilirubemia, perinatal trauma
- to be aware of short and longterm implications of newborn disease including mortality/morbidity risks by weight and gestational age, intraventricular hemorrhage, periventricular leukomalacia
- identify high risk factors and anticipating guidance preplanning for delivery

Communicator

- to be able to obtain and synthesize the relevant history of the high risk patient/parturient
- to develop a management plan regarding delivery and early neonatal care
- to counsel and educate patient/family regarding issues of the healthy neonate (eg. breast feeding) and the sick newborn.
- to document patient encounters

Collaborator

- to contribute to interdisciplinary team activities (resuscitation team, ward rounds)
- to identify and use other physician/health care professionals in prenatal/postnatal high risk situations (genetics, pediatric surgery, physiotherapy etc.)
- to involve patient/family in decision making

Professional

- to exhibit appropriate personal/interpersonal behavior with patients/family/medical and allied health professionals
- to practice ethically respecting the patient/family beliefs as it relates to the very low birth weight fetus/neonate, critically unwell and fetus/newborn with congenital anomaly

- to deliver care with integrity, honesty and compassion particularly pertaining to the nonviable or jeopardized neonate

Advocate

- to identify the determinants of health that affect the pregnant patient (particularly lifestyle, economic and culture) and their effect on the neonate
- to recognize and respond to issues where advocacy is appropriate (breast feeding, newborn safety, immunization)

Manager

- to prioritize tasks in the case room, neonatal setting
- to organize and be able to institute a follow up plan for the well, sick and premature neonate
- utilize information technology to research, current data for the management of neonatal issues and their outcomes
- to balance work/study and personal life

Scholar

- demonstrate evidence based learning to the management of the high risk patient/family and her/their neonate
- implement/document a learning portfolio for continuing education
- facilitate learning of patients, students and neonatal personnel