



NEONATAL INTENSIVE CARE UNIT

THE ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF CANADA *Objectives of Training and Specialty Training Requirements in Anesthesia*

Specific Objectives in CanMEDS Format

OVERALL GOALS

The goal of the NICU rotation for trainees in anesthesia is development of an understanding of the common neonatal illnesses, their treatment, and their implications for anesthetic management or perioperative care. In addition, there will be a focus on newborn assessment and resuscitation.

It will be helpful if residents have completed the Neonatal Resuscitation Program (NRP) prior to the rotation.

ROTATION OBJECTIVES

At the completion of training, the resident will have acquired the following competencies and will function effectively as:

Medical Expert

Specific Knowledge Requirements

The resident will be able to:

- Identify neonates requiring resuscitation.
- Recognize common neonatal surgical emergencies.
- Identify common neonatal critical care problems (eg. temperature control, respiratory compromise, fluid and electrolyte disturbances, glucose management and circulatory problems).
- Propose appropriate management plans in both the NICU and the OR for these common neonatal critical care problems.
- Have working knowledge of Neonatal Resuscitation (Neonatal Resuscitation Program, NRP).

Specific Skills Requirements

The resident will be able to:

- Complete a history and physical assessment pertinent to the neonate requiring critical care intervention.
- Present a stratified differential diagnosis of the neonate's illness.
- Prescribe initial management of the neonate's critical condition.
- Provide neonatal resuscitation as member of resuscitation team.



- Interpret common laboratory evaluations in neonatal critical care medicine including umbilical cord blood gases, complete blood count and differential, chest x-ray, etc.

Communicator

The resident will be able to:

- Obtain and document the relevant medical history and physical exam thoroughly and efficiently.
- Develop communication skills with other members of the health care team to benefit the patient.

Collaborator

The resident will be able to:

- Be aware of the role of the neonatology consultant in peripartum management of the neonate.
- Be aware of the role of the neonatology consultant in perioperative management of the neonate.
- Participate in team neonatal resuscitation.
- Describe the importance of the role of each of the members of the neonatal resuscitation team and support them in fulfilling their duties.

Health Advocate

The resident will be able to:

- Understand the complex emotional atmosphere surrounding delivery of a newborn and impact of a critically ill child on parents/caregivers.

Scholar

The resident will:

- Attend and participate teaching rounds.

Professional

The resident will be able to:

- Demonstrate integrity and honesty when interacting with neonates, families, and other health care professionals.
- Be punctual, efficient, and respectful at all times.

READING LIST

Suggested Readings:

1. ACoRN, Acute Care of at-Risk Newborns - First Edition, 2005 (ISBN 0-9736755-0-0), Rev 02/06 (ISBN 0-9736755-1-9), Updated '2010 Version' Oct 2009 (ISBN 978-0-9736755-2-8)

Reviewed Granton 2012