Updates & Innovations in Neonatology and Pediatrics
July 8 -12, 2013

Location: Hariri School of Nursing, AUB

Course is offered by Dr. Lina Kurdahi Badr, RN, PhD, CPNP and listed as one of the top 100 Nursing professors in the USA. Dr Kurdahi Badr has been teaching Pediatric Nursing in the USA, Lebanon and the Gulf region for 40 years. Guest pediatric and neonatal physicians from AUBMC will also be involved in giving lectures on current therapeutics

COURSE DESCRIPTION:
This course is designed to help nurses in neonatology or pediatrics obtain new knowledge and learn new skills necessary for practice. Scientific and practice-oriented sessions of current and innovative topics will be discussed. As opposed to more traditional courses this course will help you gain useful insights for practice. In other words "how to do the job and do it well". The course format is designed as interactive lectures with videos and hands on training in the simulation lab. An observational visit to the neonatal intensive care unit (NICU) at AUBMC will be included. The course will also include an optional workshop on neonatal resuscitation which is an additional half a day for the basic course and a full day for the whole course

LEARNING OUTCOMES:
At the completion of this one credit course nurses will:
1. Describe common newborn and pediatric diseases
2. Understand pathophysiology, signs and symptoms of pediatric and newborn illnesses
3. Become familiar with current therapeutics and skills
4. Establish relations with nurses from different hospitals

COURSE OUTLINE:

Day 1.
Neonatal and pediatric respiratory care.
- Etiology, clinical features, pathophysiology, pathogenesis and management of common respiratory diseases.
- Relevant diagnostic and therapeutic modalities in respiratory diseases in
- Neonatal resuscitation, High-frequency ventilation, Sedation
- Surfactant therapy
- Current therapies in Asthma
Day 2
A. Infectious diseases
   - Clinical features, management of viral, bacterial, fungal, rickettsial, parasitic, protozoal and other infections.
   - Prevention and management of nosocomial infections.
   - Infection control and preventive measures.
   - Immunizations
   - Management of Fever

B. Neonatal and Pediatric emergencies
   - Evaluation of critically ill neonate and child.
   - Neonatal emergencies
   - Poisoning and injuries.
   - Planning and management of pediatric intensive care unit
   - Perioperative care and pain management.

Day 3.
A. Genetics
   - Principles of genetic disorders.
   - Clinical features and management of genetic and chromosomal disorders.
   - Prenatal diagnostic techniques and neonatal screening tests.
   - Effects of teratogenic agents.
   - Genetic counseling.
   - Gene therapy.

B. Growth and Development
   - Normal pattern and factors affecting growth and development.
   - Recognition of normal variants of growth and development.
   - Developmental assessment in infancy and childhood.
   - Physiological changes during adolescence and problems facing adolescents.
   - Deviations from normal patterns of growth and development:
   - Tools for assessment of growth and development at various ages

Day 4
A. Cardiology
   - Embryology of heart and vascular system.
   - Adaptations of cardiovascular system at and after birth.
   - Etiology, pathophysiology, pathogenesis, clinical features and management of congenital and acquired heart and vascular diseases
   - Relevant diagnostic and therapeutic modalities in heart diseases in children.
   - Congestive cardiac failure – Etiology, pathophysiology, signs & management.
B. Nephrology and genitourinary tract
   - Developmental anomalies of the kidneys and the genitourinary tract.
   - Etiology, pathophysiology, pathogenesis, clinical features and management of various disorders of the kidney and the genitourinary tract.
   - Relevant diagnostic and therapeutic modalities

Day 5:
A. Hematology and Neoplastic diseases
   - Physiology of erythropoiesis, leukopoiesis and physiology of hemostasis.
   - Etiology, pathophysiology, clinical features and management of hematological and oncological diseases.
   - Therapeutic modalities in hematological and oncological disorders.

B. Central and peripheral Nervous System
   - Development of the brain, spinal cord and peripheral nervous system
   - Neurological evaluation of newborns, infants and children.
   - Etiology, pathophysiology, clinical features and management of various diseases affecting central nervous system and peripheral nervous system.
   - Seizures in childhood.

Day 6:
Optional offered by Dr Lama Charafeddine, MD Neonatologist at AUBMC

NEONATAL RESUSCITATION WORKSHOP

Purpose

NRP courses are designed to teach the concepts and basic skills needed for neonatal resuscitation.

This course will be offered by the National Collaborative Perinatal Neonatal Network (NCPNN) team under the hospices of the Lebanese Ministry of Public Health (MOPH).

The Objectives are:

1. To review the neonatal resuscitation principles set by the International Committee on Cardiopulmonary Resuscitation (ILCOR)
2. To perform low-fidelity simulation to acquire resuscitation skills necessary for neonatal resuscitation in the delivery room and other hospital areas.

Upon successful completion of the course, the participant will be able to:

1. Identify necessary staff and equipments for complete resuscitation for every birth.
2. Recognize and manage a newborn in need for resuscitation.
3. Demonstrate the systematic approach of neonatal resuscitation and effective resuscitation in simulated case scenarios.
4. Demonstrate the ability to work as a team member in simulated cases
Methodology:

This workshop will be over a one day period (appendix); registered participants will be given reading material prior to the workshop, they are expected to have reviewed the material prior to the workshop. The workshop includes:

a. A written evaluation of theoretical knowledge. Corrections will be done on site. The passing score is 80%.
b. An overview of the Neonatal Resuscitation Algorithm
c. A demonstration and hands-on practice of resuscitation skills using low-fidelity simulation manikins.
d. A competency testing of hands-on skills using the integrated skills competency testing with debriefing.
e. An evaluation of the workshop by the participants.

A Certificate of attendance will be issued after demonstrating competence in the integrated skills station.

For more information please contact:

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Registration Fees:

The registration fees for this course are USD 300/person