

- Organization of neonatal care, services, neonatal intensive care unit, organization and management of nursing services in NICU.

Unit IX Community Pediatrics and Pediatric Nursing:

- National goals,
- Five year plans,
- National health programs related to child health.

CLINICAL NURSING II - PAEDIATRIC NURSING

PLACEMENT: 2nd YEAR

HOURS OF INSTRUCTION: Theory 150 hours + Practical 800 hours = 950 hours

PURPOSE: This course is designed for an advanced course of study for developing expertise and in depth understanding in the field of Pediatric Nursing. It will help the students to develop an understanding of child as a holistic individual and skill to function as a pediatric nurse, educator, manager and researcher as relevant to Indian culture.

SPECIFIC OBJECTIVES:

At the end of the course the students will be able to:

1. Apply the nursing process in the care of ill infants to pre adolescents in hospital and community
2. Develop skill/competency in nursing management of children with medical and surgical problems
3. Recognize and manage emergencies in children
4. Get acquainted with recent technology and various treatment modalities in the management of high risk children
5. Identify nursing problems/diagnosis of pediatric patients and use problem solving approach
6. Develops understanding of managing pediatric unit/hospital
7. Identify areas of research in the field of pediatric nursing

CONTENT OUTLINE**Unit I** Introduction:

- Current principles, practices and trends in Pediatric Nursing,

Unit II Assessment and nursing intervention in selected pediatric medical disorders:

- Child with respiratory disorders:
Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration.
Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis
- Child with gastro-intestinal disorders:
Diarrheal diseases, gastro-esophageal reflux.

Hepatic disorders: Hepatitis, Indian childhood cirrhosis, liver transplantation.

Malabsorption syndrome, Malnutrition

- Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, recurrent UTI, Hydronephrosis, hemolytic-uremic syndrome, kidney transplantation
- Child with cardio-vascular disorders:
Acquired: Rheumatic fever, Rheumatic heart disease,
Congenital: Cyanotic and acyanotic
- Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypo thyroidism, phenylketonuria, galactosemia
- Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome
- Child with oncological disorders: Leukemias, Lymphomas, Wilms' tumor, nephroblastomas, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumours
- Child with blood disorders: Anemias, thalassemias, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation
- Child with skin disorders:

Unit III Assessment and nursing interventions in selected pediatric surgical problems/Disorders:

- Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs' disease/megacolon, malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia
- Respiratory system disorders
- Anomalies of the nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus
- Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder, recurrent UTI
- Anomalies of the skeletal system
- Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma
Head injury, abdominal injury, poisoning, foreign body obstruction, burns & Bites
- Child with oncological disorders: Solid tumors of childhood, Nephroblastoma, Neuro blastoma, Hodgkin's/Non Hodgkin's Lymphoma, Hepatoblastoma, Rhobdomyosarcoma, Germ cell tumors
- Management of stomas, catheters and tubes
- Management of wounds and drainages

Unit IV Intensive care for pediatric clients

- Resuscitation, stabilization & monitoring of pediatric patients
- Anatomical & physiological basis of critical illness in infancy and childhood
- Care of child requiring long-term ventilation
- Nutritional needs of critically ill child
- Legal and ethical issues in pediatric intensive care

- Intensive care procedures, equipment and techniques
- Care of chronically ill patients
- Care of terminally ill child and parents
- Dealing with death and bereavement
- Care of I V lines, central lines, PIC etc.
- Chest physiotherapy, use of spirometers etc
- Physiotherapy for neurologically impaired child

Unit V Development disturbances and implications for nursing,

- Adjustment reaction to school,
- Habit disorders, speech, disorders,
- Conduct disorders,
- Early infantile autism and childhood schizophrenia.

Unit VI Challenged child and implications for nursing

- Physically challenged, causes, features, early detection & management
- Cerebral palsied child,
- Mentally challenged child.
- Training & rehabilitation of challenged children

Unit VII Crisis and nursing intervention:

- The hospitalized child,
- Terminal illness & death during childhood and nursing intervention.

Unit VIII Drugs commonly used in Pediatrics:

- Criteria for dose calculation
- Administration of drugs, oxygen and blood (transfusion medicine)
- Adverse effects and drug interactions

Unit IX Administration and management of pediatric care unit

- Design & layout
- Staffing,
- Equipment, supplies, norms, standards.

Unit X Education and training in Pediatric care

- Staff orientation, training and development,
- In-service education program,
- Clinical teaching programs.