Iran University of Medical Sciences and Health Services
Educational Deputy
Center for Medical Education Studies and Development
Educational Planning Unit

«Theoretical-Practical Course Plan»

Course Information:

Educational Department Offering the Course: Pediatric Nursing and Neonatal Intensive Care

- **Course Title:** Review of Common Pediatric Procedures
- **Type and Number of Credits**: 1 Practical Unit (34 Hours)
- **Course Head:** Dr. Raheleh Mohammadi
- **Instructor(s)**: Dr. Fahimeh Sabeti - Dr. Raheleh Mohammadi
- **Prerequisite/Co-requisite**: None
- **Field and Level of Study**: Master of Science in Pediatric Nursing (M.Sc.)

Course Head Information:

- **Academic Rank:** Assistant Professor
- **Specialty Field:** Nursing- PhD in Educational Management (M.Sc. in Pediatric Nursing)
- **Workplace:** Faculty of Nursing and Midwifery - Department of Pediatric Nursing and Neonatal Intensive Care
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واحد برنامه ریزی آموزشی دانشگاه ع.پ. ایران

Course Description:

This course consists of one practical unit. During this course, students must be able to, while gaining sufficient skills, provide for the safety and comfort of the child and family during diagnostic and therapeutic procedures, considering their professional, ethical, and legal responsibilities. To achieve this goal, having sufficient knowledge about common procedures in pediatric care units—including equipment preparation, necessary techniques for performance and proficiency in them, as well as preparing the child and parents for procedures considering the child's developmental stages and cognitive abilities—is essential.

General Goals / Competency Axes:

Familiarizing students with the methods of performing procedures in general and specialized pediatric wards through understanding diseases and the necessity of performing actions and procedures in diagnosing and treating diseases, and towards improving the quality of nursing care and preparing the child and family for procedures.

Specific Objectives / Sub-competencies for Each Competency:

Upon completion of this course, the learner is expected to:

- Practically perform the stages of preparing a child for feeding, including gavage, gastrostomy, and jejunostomy, in practice (on mannequins/simulation).
- Practically perform airway suctioning in a child in practice.
- Explain nursing care for pediatric airway suctioning.
- Explain the preparation/care before, during, and after high-risk diagnostic tests such as bronchoscopy, angiography, LP (Lumbar Puncture), and BMA (Bone Marrow Aspiration).
- Explain the care before, during, and after high-risk medical treatments including blood transfusion, IVIG (Intravenous Immunoglobulin), paracentesis, and thoracentesis.
- Explain the preparation and care before, during, and after minor surgeries such as tooth extraction, suturing, cyst removal, fractures, biopsy (kidney), and stoma care.
- Practically perform injections including subcutaneous, intramuscular, intravenous, rectal, and inhalational, intraosseous, and PICC (Peripherally Inserted Central Catheter) on mannequins in practice.
- Explain nursing care for a stoma.
- Acquire the necessary skills in performing/assisting with intubation and extubation.
- Explain nursing care for intubation and extubation.
- Explain the preparation of a child for performing medical diagnostic tests such as various types of radiography.Appreciate the importance of family-centered care in performing diagnostic and therapeutic procedures in children.

Schedule for Review of Common Pediatric Procedures Course

	Topic			Instructor
		Learning Activities	Teaching-Learning Method	
1	Preparation for child feeding including Gavage, Gastrostomy, and Jejunostomy	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Sabeti
2	Performing Airway Suctioning and related Nursing Care	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Sabeti
3	Preparation and Care before, during, and after High-Risk Diagnostic Tests such as Endoscopy, Bronchoscopy, Angiography, LP, and BMA	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Sabeti
4	Care before, during, and after High-Risk Medical Treatments including Blood Transfusion / IVIG, Paracentesis, and Thoracentesis	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Mohammadi
5	Preparation and Care before, during, and after Minor Surgeries (Tooth extraction, Suturing, Cyst removal, Fractures, Kidney Biopsy), Stoma Care	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Mohammadi
6	Preparation and Familiarization with Interpretation of Radiographic Diagnostic Tests	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Mohammadi
7	Performing Injections including Subcutaneous, Intramuscular, Intravenous (IV Cannulation), Rectal, Inhalational, PICC	Class attendance, Participation in Q&A, Practical work in lab and clinical setting (2 hrs)	Video demonstration, Lecture, Q&A	Dr Mohammadi
8	Performing/Assisting with Intubation and Extubation and related care	Class attendance, Participation in Q&A, Practical exercise on mannequin (4 hrs) Location: University Clinical Skills Center	Simulation, Scenario-based	Dr Sabeti

Educational Approach:

Video demonstration, Practical exercise in lab and clinical settings, Scenario-based.

Student Duties and Expectations:

- Regular and active class attendance.
- Completing assignments, including participation in topic presentations.

Student Assessment Method:

Criteria	
Attendance and Active Participation in Class	20% (4 marks)
Assignments: The student must research, study, and present in class at least 2 related guidelines (1 topic from the class subject of each professor).	60% (12 marks)
Response to Presented Scenarios	20% (4 marks)
Total Score or Rating	Total (out of 20): 20

References:

a) Books:

1-Hochenberry, M.J, Wilson D. 2019. Wong's nursing Care of Infants and Children. Philadelphia, st .louis, Mosby, Elsevier.

2- Vicky R. Bowden, Cindy Smith Greenberg, Last Ed, pediatric nursing procedures. Lippincott Williams & Wilkins.

b) Resources for Further Study

Website:

1-Up to Date 2-Clinical Key