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: Principles of Advanced Pediatric Care 1
Type and Number of Credits: 2 Units (34 Hours)
Course Head: Dr. Raheleh Mohammadi
Instructor(s): Dr. Fahimeh Sabeti - Dr. Raheleh Mohammadi - Dr. Mahnaz Shouqi
Prerequisite: Principles of Nursing Care for Child and Family (Code 16) - Principles of Nursing Care for Child and Family (Code 17)
Field and Level of Study: Master of Science in Pediatric Nursing - Pediatric Nursing (M.Sc.)

Information of 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:

The student will become familiar with the clinical and paraclinical symptoms of children with nutritional and excretory disorders, oxygenation disorders, and cardiovascular diseases. Through appropriate care and education for the child and family based on the nursing process, they will help them achieve maximum health. For this purpose, the student is helped to integrate their current learnings with previous knowledge and apply creative thinking skills in the care of the child and family.

General Goals / Competency Axes:

Familiarizing the student with various types of cancerous disorders, brain function disorders, endocrine disorders, skin problems, and musculoskeletal-neurological-articular function disorders in children, and caring for children with these disorders based on the nursing process.

Specific Objectives / Core Competency:

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

- Compare common nutritional disorders in children in terms of signs and symptoms, treatment, and nursing care.
- Develop a Nursing Care Plan for a child with symptoms of dehydration based on valid guidelines.
- Describe renal system disorders in children.
- Develop a Nursing Care Plan for a child with kidney dysfunction based on valid guidelines.
- Describe various types of respiratory system disorders in children.
- Develop a nursing care plan for a child with respiratory disorders based on valid guidelines.
- Develop a Nursing Care Plan for a child with symptoms of asthma based on valid guidelines.
- Describe various types of congenital heart disorders in children.
- Develop a nursing care plan for a child with congenital heart disorders based on valid guidelines.
- Describe various types of immune disorders in children.
- Develop a nursing care plan for a child with immune disorders based on valid guidelines.
- Compare various types of blood disorders in children in terms of signs and symptoms, treatment, and nursing care.
- Develop a nursing care plan for a child with a blood disorder based on valid guidelines.
- Understand the importance of supporting and involving the family / family-centered care in caring for children.
- Appreciate the importance of critical thinking in child care

Schedule for Principles of Advanced Pediatric Care

	Topic			Instructor
		Learning Activities	Teaching-Learning Method	
1	Fluid and Electrolyte Imbalance (Dehydration - Water Intoxication)	Active class attendance, Participation in group discussion, Self-Study)	Interactive Lecture, Group Discussion	Dr Mohammadi
2	Fluid and Electrolyte Imbalance (Diarrhea and Vomiting, Constipation, Shock)	Active class attendance, Participation in group discussion, Self-Study)	Interactive Lecture, Group Discussion	Dr Mohammadi
3	Chronic Kidney Disorders (Renal Failure and Hemodialysis)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Mohammadi
4	Upper Respiratory Tract Infection (Croup, Rhinitis, Foreign Body Aspiration)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Mohammadi
5	Lower Respiratory Tract Infection (Various Types of Pneumonia, Bronchitis)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Mohammadi
6	Heart and Circulatory Disorders (Congenital Heart Diseases, Acquired Heart Diseases)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Shogi
7	Heart and Circulatory Disorders (Kawasaki Disease, Rheumatic Fever, Endocarditis, Cardiomyopathy, Heart Transplant)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Shogi
8	Gastrointestinal Disorders (Foreign Body Ingestion, Celiac Disease, Hirschsprung's Disease, Intussusception)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Shogi

Schedule for Principles of Advanced Pediatric Care 1

	Topic			Instructor
		Learning Activities	Teaching-Learning Method	
9	Gastrointestinal Disorders (Liver Disorders, Cirrhosis, Biliary Atresia)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Shogi
10	Immune Disorders (AIDS, ITP, HSP, DIC)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Shogi
11	Kidney Disorders-Part 1 (Urinary Tract Infection(UTI), VUR, Nephrotic Syndrome)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Sabeti
12	Kidney Disorders –Part 2 (Glomerulonephritis, Tubular Acidosis, HUS)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Sabeti
13	Blood Disorders (Various Anemias: Iron Deficiency, Aplastic, Spherocytosis)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Sabeti
14	Blood Disorders (Thalassemia, Sickle Cell Anemia, Hemophilia)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Sabeti
15	Chronic Respiratory System Disorders (Asthma, Cystic Fibrosis)	Active class attendance, Participation in group discussion, Self-Study	Interactive Lecture, Group Discussion	Dr Sabeti
16	Student Seminar	Participation in group discussion	Student Presentation	Dr Sabeti, Dr Shogi Dr Mohammadi

Educational Approach: A combination of virtual and in-person educational approaches, including:

- √ Interactive Lecture (Q&A, Quiz, Group Discussion, etc.)
- √ Problem-Based Learning (PBL)
- √ Using Students in Teaching (Peer Teaching)
- √ Scenario-Based Learning
- √ E-Content Based Learning
- √ Flipped Classroom

Student Duties and Expectations:

- Regular class attendance.
- Active participation in class scientific discussions.
- Delivering presentations / Journal Club.
- Self-Study / Library studies.
- Developing critical thinking.
- Observing ethical principles in education.

Student Assessment Method:

Criteria	
Attendance & Active Participation	10% (2 marks)
Assignments: The student must research/study and present in class at least 6 articles/related guidelines (2 topics from the class subject of each professor).	30% (6 marks)
Final Exam	60% (12 marks - 4 marks per professor)
Total Score / 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- Kliegman R and St. Geme W. 2020, Nelson Textbook of Pediatrics. 21 Ed, Elsevier

b) Resources for Further Study

Website:

1-Up to Date 2-Clinical Key

c) Articles: Articles published in specialized journals:

1-Journal of Pediatric Nursing 2-Journal of Pediatric Health Care 3- Other value nursing journals

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