

COURSE SYLLABUS

ITEMS	CONTENT
Course Title & Code	Clinical application of child health nursing - NUR 327
Course Coordinator	Dr. Manal Fehade Al-Harbi EXT: 58533 Email: Maalwahbi@ksu.edu.sa
Duration	5 contact hours *15weeks = 45 hrs. divided between lab and clinical area in the hospital
Level	Six
Teaching staff required	Lecturer of Pediatrics Nursing OR minimum Bachelor Degree.
Course description	This course focuses on the application of the paediatrics nursing theoretical knowledge in the clinical area, Using the nursing process as a tool while giving nursing care to children with different medical –surgical problems. The student develops skills in observing and caring for well and sick children during their stages of development from birth to the adolescent, in the hospital.
Course Objectives	<p>Upon completion of the clinical experience the student will be able to: -</p> <ul style="list-style-type: none"> • Create a safe & pleasant environment while caring for children in different areas • Give skilled care to the new-born (Premature babies). • Assist with fluid replacement using the principles of oral dehydration therapy. • Observe and identify the causes, signs and symptoms of the different disorders of children in the hospital and assist with the treatment • Use the nursing process as a tool in giving skilled nursing intervention and carry out observation while meeting the health care and nursing need of children • Develop skills in meeting the nursing needs of children which includes, administration of medicine, safety, obtaining blood and urine samples, reducing elevated body temperature, daily hygiene & nutrition. • Prepare individualized nursing care plans for each child according to the specific need and health problems of the child with involvement of the child's family • Accurately record & treatment given, as well as the response of the child to treatment and nursing management • Give health education to the mothers with regard to infant feeding, immunization, nutrition and prevention of accidents and infections.
Main Teaching Strategies	<p>Main Teaching Methods</p> <ul style="list-style-type: none"> • Demonstration & Re-demonstration of procedure • Simulation Lab Practice • Case Scenario <p>Teaching Materials</p> <ul style="list-style-type: none"> • Clinical experience in paediatric hospital • Video • Models • Instruments

Methods of Assessments	<ul style="list-style-type: none"> • Return demonstration • On site oral exam • Continues feedback & self-reflection • Assignment including case study and mother class • Reports including nursing care plan for different child's health problems. • Final practical exam & clinical exam
Evaluation & grading policy	<ul style="list-style-type: none"> • Professionalism 2% • *Mother Class 8% (Started at week 6) • *Case Study 10% (Submit at week 12) • *Clinical Evaluation 14% (On each clinical day) • *Reports 6% (Submit 3 reports) • Midterm- 10% Written + 10% Practical 10% (Week7) • Final Exam- 20% Written + 20% Practical Total = 100% <p>Note:</p> <p>*Mother class topics are (Vaccination - Breastfeeding - Artificial feeding - Rickets - Diarrhea - Constipation - Teething - Nutrition - Fever - First aid).</p> <p>*Case study (chose one interested case from intensive care unit, pediatric medical or surgical wards)</p> <p>*Clinical evaluation (Student will be evaluated randomly for 7 items only from the clinical evaluation procedure list with only one chance to repeat for one item only).</p> <p>*Reports assigned areas are pediatric medical, surgical, emergency and outpatient.</p>
References	<p>Essential References Materials:</p> <ul style="list-style-type: none"> • Clinical Skills Manual for Maternity and Pediatric Nursing 5th Edition Author: Ruth C. Bindler, Jane W. Ball, Marcia L. London, Michele W Davidson Publisher: PEARSON, 5th Edition (2017) ISBN-13: 978-0134257006 ISBN-10: 0134257006 • Maternal & Child Nursing Care 5th Edition Author: Marcia L London, Patricia W Ladewig, Michele Davidson, Jane W Ball, Ruth C Bindler, Kay Cowen Publisher: PEARSON, 5th Edition (2017) ISBN-13: 978-0134167220 ISBN-10: 0134167228 <p>Recommended Reference Material:</p> <ul style="list-style-type: none"> • Wong's Essentials of Paediatric Nursing, 10th Edition Author Marilyn J. Hockenberry, PhD, RN-CS, PNP, FAAN, <u>David Wilson MS RN C(INC)</u>, <u>Cheryl C Rodgers PhD RN CPNP CPON</u>. Publisher: Mosby; 10 edition (October 10, 2016) ISBN-10: 0323353169 ISBN-13: 978-0323353168 <p>Links & Web Sites:</p> <ul style="list-style-type: none"> • http://www.medscape.com/nurses • http://www.pedsnurses.org/

COURSE CONTENTS:

WEEKS	PROCEDURES
3	<p>I) Growth Measurements</p> <ul style="list-style-type: none"> • Length • Height • Weight • Head circumference • Abdominal girth <p>II) Vital Signs</p> <ul style="list-style-type: none"> • Body temperature • Heart rate • Respiratory rate • Blood pressure • Fluid and electrolyte balance (urine output measurement) <p>III) Paediatric Physical Assessment</p> <ul style="list-style-type: none"> • Taking child history • Assessing skin & hair characteristics • Assessing the head for skull characteristics and facial features • Assessing eye structures, function, and vision • Assessing ear structure and hearing • Assessing the nose and sinuses for airway patency and discharge • Assessing the mouth and throat for colour, function and signs of abnormal condition. • Assessing the neck for characteristics, range of motion, and lymph nodes. • Assessing the chest for shape, movement, respiratory effort, and lung function. • Assessing the breast • Assessing the heart for heart sounds and function • Assessing the abdomen for shape, bowel sounds, and underlying organs • Assessing the genital and perineal areas for external structural abnormalities • Assessing pubertal development and sexual maturation • Assessing musculoskeletal system for bone and joint structure, movement, and muscle strength • Assessing the nervous system • Pain Assessment <p>IV) Specimen Collection</p> <ul style="list-style-type: none"> • Blood samples (capillary puncture) • Urine samples (urine collection bag in infant-sterile urinary catheter specimen) <p>V) Medication Administrations</p> <ul style="list-style-type: none"> • Administering medications (variations-preparation-documentation-calculation) • Oral medication • Intramuscular injection • Subcutaneous injection

	<ul style="list-style-type: none"> • Intravenous medication <p>VI) Oxygen Therapy</p> <ul style="list-style-type: none"> • Using oxygen delivery system • Tracheostomy care • Endotracheal tube care • Care of chest tube <p>VII) Suctioning</p> <ul style="list-style-type: none"> • Nasal/oral • Tracheostomy tube • Endotracheal tube <p>VIII) Nutrition & Feeding</p> <ul style="list-style-type: none"> • Gastric tubes (inserting and removing a nasogastric tube & orogastric tube) • Gastrostomy tubes (administering gavage/tube feeding) <p>IX) Elimination</p> <ul style="list-style-type: none"> • Ostomy care <p>X) Newborn Care</p> <ul style="list-style-type: none"> • Jaundice (phototherapy) <p>XI) Immunization</p> <ul style="list-style-type: none"> • Paediatric vaccine
	OBJECTIVES ACHIEVED DURING CLINICAL TRAINING
2	<p>I) PAEDIATRIC CRITICAL CARE AREAS (PICU-NICU):</p> <ul style="list-style-type: none"> • Take complete history. • Perform physical examination to child • Measure weight, height, abdomen and head circumference. • Apply different ways of restrain according to each case. • Check & record vital signs. • Perform physical hygiene. • Participate in preparing and give artificial or breast feeding. • Record intake and output. • Assist in oxygen therapy & maintain patent airway. • Perform contact precaution technique of using mask, gloves & gown. • Assist in administering medication. • Assist with laboratory investigation. • Prepare the equipment & child for any procedure related to the type of complication. • Provide health education according to the child condition and needs. • Write a correct nursing care plan.
2	<p>II) PAEDIATRIC EMERGENCY DEPARTMENT:</p> <ul style="list-style-type: none"> • Take rapid and relevant history • Perform effective physical assessment to child • Measure weight & height. • Check & record vital signs. • Learn to distinguish between a serious and non-serious illness

	<ul style="list-style-type: none"> • Learn to establish priorities in patient treatment. • Identify risk factors related to urgent illness • Develop interpersonal skills by listening effectively and interaction with patient and their relatives. • Perform contact precaution technique of using mask, gloves & gown if needed. • Assist in administering medication. • Assist with laboratory investigation. • Prepare the equipment's & child for any procedure related to the type of diagnosis. • Provide health education according to the child condition and needs. • Write clearly, accurate nursing record. • Work effectively in the emergency department environment. • Exhibit appropriate personal and interpersonal professional behaviors, to show integrity, honesty and compassion & practice in an ethical manner. • Recognize own limitations and seek advice and help when needed.
2	<p>III) PAEDIATRIC MEDICAL DEPARTMENT:</p> <ul style="list-style-type: none"> • Collect data from patient, family and file and utilizes critical thinking skills to differentiate normal data from abnormal and identify basic patient needs. • Obtain an accurate and complete history of a pediatric patient. • Perform and document systematic physical examination. • Obtain accurate vital signs in a pediatric patient in different age groups. • Demonstrate the correct technique for assessing the growth and development and evaluating the significance of the data obtained. • Interpret history and physical examination to arrive at differential diagnosis. • Perform pain assessment by using appropriate tool according to age groups. • Formulate nursing care plans based on patient's needs. • Apply different ways of restrain according to each case. • Assist with special procedure (Diagnostic or therapeutic) • Observe and assist the nurse in performing the following procedures: Medication administration IV therapy Laboratory investigation Blood transfusion Oxygen therapy Suctioning techniques NGT insertion& removal Feeding (Bottle feeding, via Nasogastric or gastrostomy tube) • Calculate drug dose and fluid requirements by using standard formulas. • Familiarize the different nursing responsibilities in hospital which include; department forms, charting, giving medication, computer system, transcribe and carry out doctor's order, doctors round, and discharge plan...etc. • Demonstrate standard precautions, includes handwashing, infection control measures, and use of personal protective equipment (PPE) as needed. • Minimize the risk of harm to a pediatric patient in the acute care setting by conducting a safety check. • Identify appropriate communication techniques for working with pediatric patients of various ages. • Provide health education to patients & their families according to condition and needs.

2	IV) PEDIATRIC SURGEICAL DEPARTMENT: <ul style="list-style-type: none"> • Take complete history • Perform physical examination to child • Assist with investigation e.g. blood, urine, stool throat culture specimen • Assist in preparation of equipment's for dressing. • Provide pre and post- operative nursing management. • Recognize preoperative concepts and nursing intervention of patient with surgery. • Assist with investigation. • Perform physical care to child in bathing (Bed or Bathroom), care of mouth, skin, eyes, ears & nose and care of diaper • Apply different ways of restrain according to each case. • Prepare the equipment's & children for any procedure. • Participate in preparing and give breast feeding and formula, feeding baby with cleft lip and palate, gavages, gastrostomy tube feeding • Recognize the need to individualize drug dosage and fluid administration on the basis of weight, using standard formulas. • Apply principles of infection control. • Recognize child with post-operative complications (haemorrhage, Shock, and Infection) • Provide counselling and health teaching to the mother according to need of child. • Use writing skills in documentation forms.
2	V) PEDIATRIC OR & RECOVERY DEPARTMENT: <ul style="list-style-type: none"> • Perform required physical assessment. • Apply principles of infection control measures. • Assist in preparation of supplies and equipment. • Provide care for paediatric patient during recovery: <ul style="list-style-type: none"> Check level of consciousness. Monitor vital signs. Monitor IV fluids. Monitor the incision site, dressing and drainage. Monitor intake and output. Maintain clear airway. • Provide care of child with Post-operative complications, haemorrhage and shock.
2	VI) OUTPATIENT PEDIATRIC DEPARTMENT: <ul style="list-style-type: none"> • Take complete history • Maintain child health record. • Perform physical examination to child. • Maintain growth register. • Apply principles of infection control. • Carry out immunization. • Use interpersonal communication skills with child and parent. • Prepare and give health education on: nutrition, immunization, prevention of infection & accidents.

MOTHER CLASS EVALUATION CRITERIA

Student Name:

ID:

Date: / /

Signature:

Clinical Instructor Name:

Signature:

Topic:

Mark	Items	Grade	Comments
Preparation			
0.5	Outline		
0.5	Introduction		
0.5	Organization		
0.5	Clarity		
0.5	Sequence		
0.5	Comprehensiveness		
0.5	Accuracy		
0.5	Relevance		
Presentation			
0.5	Introduce (Topic and her Self)		
0.5	Self (Confidence with Clear voice)		
0.5	Audience (Interact and able to control)		
	Answering question if <ul style="list-style-type: none"> • Appropriate answer (0.25) • Complete answer (0.5) 		
0.5	Emphasis on important points		
0.5	Summarizing at the end		
	Use of audio – visual aids if: <ul style="list-style-type: none"> • Relevant & at the level (0.25) • Relevant & Attractive (0.5) 		
0.5	Hand outs		
Total =8		/8	

CASE STUDY EVALUATION CRITERIA

Student Name:

ID:

Date: / /

Signature:

Clinical Instructor Name:

Signature:

Case Study Topic:

Mark	Items	Grade	Comments
1	The title page: <ul style="list-style-type: none"> • Name of the student • Date • ID • Name of the child • Age\sex • Diagnosis • Date of admission • Department • Bede no • Room no 		
1.5	Review the history of current case in detailed descriptions: <ul style="list-style-type: none"> • Past • Present • Family 		
1.5	Physical assessment (Write your examination or use the physical assessment form that used in the designated hospital)		
1	Possible complication could be happened based on current assessment and diagnosis findings		
1	Diagnostic test and the result.		
1	Lab result		
1	Nursing care plan		
2	Discharge plan (Health education and promotion for the case)		
Total=10		/10	

CLINICAL EVALUATION PROCEDURE LIST

Student Name:

I.D:

Signature:

Instructor Name:

Procedures	Items	*Evaluator's assessment (Grade)		
		2	1	0
1) Growth Measurements	Length, Height, Weight, Head circumference Abdominal girth			
Vital Signs	Body temperature, Heart rate, Respiratory rate, Blood pressure			
	Fluid and electrolyte balance (urine output measurement)			
2) Paediatric Physical Assessment	Taking child history			
	Assessing skin & hair characteristics			
	Assessing the head for skull characteristics and facial features			
	Assessing eye structures, function, and vision			
	Assessing ear structure and hearing			
	Assessing the nose and sinuses for airway patency and discharge			
	Assessing the mouth and throat for color, function and signs of abnormal condition.			
	Assessing the neck for characteristics, range of motion, and lymph nodes.			
	Assessing the chest for shape, movement, respiratory effort, and lung function.			
	Assessing the breast			
	Assessing the heart for heart sounds and function			
	Assessing the abdomen for shape, bowel sounds, and underlying organs			
	Assessing the genital and perineal areas for external structural abnormalities			
	Assessing pubertal development and sexual maturation			
	Assessing musculoskeletal system for bone and joint structure, movement, and muscle strength			
	Assessing the nervous system			
	Pain Assessment			
3) Specimen Collection	Blood samples (capillary puncture)			
	Urine samples (urine collection bag in infant-sterile urinary catheter specimen)			
4) Medication Administrations	Administering medications (variations-preparation-documentation-calculation)			
	Oral medication			
	Intramuscular injection			
	Subcutaneous injection			
	Intravenous medication			
5) Oxygen Therapy	Using oxygen delivery system			
	Tracheostomy care			
	Endotracheal tube care			
	Care of chest tube			
6) Suctioning	Nasal/oral			
	Tracheostomy tube			
	Endotracheal tube			
7) Nutrition & Feeding	Gastric tubes (inserting and removing a nasogastric tube & orogastric tube)			
	Gastrostomy tubes (administering gavage/tube feeding)			
8) Elimination	Ostomy care			
9) Newborn Care	Jaundice (phototherapy)			
10) Immunization	Paediatric vaccine			
Total		/14		

*Complete=2, Incomplete=1, Not done=0