



جامعة البلقاء التطبيقية

وحدة التقييم والامتحانات العامة

مصفوفة مخرجات التعلم Learning Outcomes

الثالثة (المهارات الفنية المتخصصة)	الورقة
المهن الطبية المساندة	البرنامج/ المسار
تمريض الكلى الاصطناعية (02081630)	التخصص

المهارات الفنية	المجال المعرفي	الرقم
<b>Adult Renal nursing (تمريض غسيل كلى بالغين 1+2)</b>		1.
Renal physiology and the pathology of renal failure		
Know Basic body chemistry including fluid and electrolyte balance		
Demonstrate knowledge of the treatments for end stage renal disease including: -Disease process -The indications for dialysis.		
Composition of dialysate solution		
Operate dialysis equipment and devices		
Primes dialyzer and bloodlines		
Assess patient condition		
Coordinate care with the physician in the preparation of the treatment plan		
Carrying out diagnostic tests as prescribed (biochemistry, Haematology, microbiology), and following up results		
Prepare the dialysis machine effectively		





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Calculate patient dry weight (weight gain) effectively (Correctly assess the patient's vital signs and weight). Correctly program the machine.		
Calculate dialyzer and extracorporeal circuit size, blood flow rate, and dialysate flow rate and temperature and ultrafiltration rate for patients of different sizes and different ages		
Identify the parameters for safe, effective delivery of the treatment prescription (the components of a dialysis prescription)		
Perform the dialysis procedure		
Cannulation the patient ( arterial venous fistula, grafts).		
Monitor and assess vital signs of dialysis patients.		
Deal with central access effectively (Dressing)		
Measuring effectiveness and adequacy of dialysis		
Manage complications during treatment (Monitor patient reaction to treatment interventions).		
Disconnect the patient from dialysis effectively		
Perform peritoneal dialysis for patients.		
Manage medications and therapeutic interventions during treatment		





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Instruct and counsel patients & their families on dialysis nursing care issues.		
Demonstrate knowledge of dialysis therapies including: - The mechanisms of fluid delivery, machine mechanics and membrane physiology as they relate to hemodialysis.		
Peritoneal dialysis therapies.		
Monitor patient reaction to treatment interventions.		
Effectively document and report on treatment interventions and outcomes;		
Effectively operate in the acute-care and critical setting		
Deliver patient education in support of overall treatment goals		
Deal with machine alarms		
Establish positive therapeutic relationships with the patient and their family that are characterized by understanding, trust, respect, empathy and confidentiality.		
Provides pre- and post procedure care to patients within the Hemodialysis Unit		
Sterilization hemodialysis machine (with different sterilization program)		
Handling of hazardous materials		
The management and prevention of infection in renal failure patients receiving haemodialysis		





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Maintain professional boundaries, responds to patients with appropriate behavior and in a therapeutic manner		
Collect patient data: monitor and document status of vascular accesses, review lab work, patient observations, and seek guidance when levels are out of "normal" range for ESRD patients.		
<b>Pediatric Renal nursing (غسيل كلى اطفال)</b>		<b>2</b>
Know the Differences between adult and pediatric renal nursing and care.		
Calculate dialyzer and extracorporeal circuit size, blood flow rate, and dialysate flow rate and temperature and ultra filtration rate for pediatrics patients of different sizes and different ages.		
Specific procedures to operate kidney dialysis machines for pediatrics		
Preparation of the dialyzer, reprocessing and delivery systems		
Equipment maintenance		
Skills to monitor and record a patient's vital signs		
The process for a dialysis teams' administration drugs as needed		
Assessment of patients for any complications that occur during a procedure		
Perform peritoneal dialysis for neonatal and pediatric patients.		
Patient training and provide emotional support for patients		
Acute renal failure and dialysis		
<b>Hemodialysis Machine (جهاز غسيل الكلى)</b>		<b>3</b>





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Set up and monitor dialysis machines and systems: Observe dialysis machines and RO water system for correct functioning.		
Respond to visual and audible alarms and makes appropriate adjustments pre, during and after the dialysis treatment.		
Ability to dismantle, clean and disinfect dialysis machines and equipment according to hospital procedures.		
Understand all duties related to dialyzer reuse: dialyzer cleaning and sterilization and equipment using chemicals, rinses, , ,		
Priming the dialyzers		
Attachment and installation of all required tubing		
Positioning of dialyzer		
Dialyzer tests.		
Preparation of dialysate delivery system for dialysis		
Dialyzer connection and all pumps, alarm checks, monitor settings		
<b>Infection control in dialysis unit</b>		٤
<b>الوقاية من العدوى</b>		
Using gloves any time contact is made with a dialysis machine		
Surveillance and immunization for hepatitis B		
Participate in managing and caring of a patient with infectious disease		
Practices that prevent the potential for using supplies between patients (i.e., if something is taken to a patient station for use, it should not then be taken to another		





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patient station).		
Appropriate disinfection of the vascular access prior to cannulation		
Know strategies to prevent bloodstream infections in patients on dialysis, discuss patient perspectives on prevention of bloodstream infections		
Know the Conduct microbiological testing specific to water in dialysis settings.		
Disinfect water distribution systems in dialysis settings on a regular schedule		
الانعاش القلبي الرئوي (CPR)		5
Provide practitioners working in hemodialysis Units with basic knowledge regarding CPR. The course will concentrate on the various steps governing CPR weather basic life support or advance one; it also explains the role of certain medications in the process of CPR. defines some of the conditions that need immediate concern and explains the neonatal resuscitation		

