CO2.1 HEMODIALYSIS

S.N O	TOPIC	OUTCOME
2.1.1	A.HEMODIALYSIS APPARATUS	 After the completion of this topic student will be able to identify the apparatus or equipements which are used in Hemodialysis. Student will be able to understand the use of each equipement or apparatus of hemodialysis Student will be able to understand the principles and support the senior technician in procedure. Student will be able to handling the dialysis machine in supervision of senior staff. Student will be able to operate the dialysis machine with all guidelines.
2.1.2	VASCULAR ACCESS FOR HEMODIALYSIS	 After the completion of this topic student is able to identify that which kind of vascular access patient have. Student shall be able to manage and take care of vascular access of patient. Student shall be able to use the access in dialysis and take the assessment of access. Student shall be able to understand the different types of vascular access and how to use it.
2.1.3	HEMODIALYSIS: WORKING PRINCIPLES AND	➤ After the topic will be completed student will be able to understand the introduction of dialysis and its working.
	MAINTANANCE-	 Student will be able to do work on dialysis machine with full

		care and terms.
		Student will be able to
		understand the principles of
		hemodialysis theoretically and
		practically.
		Student will be able to
		maintain the whole dialysis
		procedure with guidelines.
2.1.4		➤ After the topic will be
		completed student shall be able
		to understand the different kind
		of emergencies in process of
		Hemodialysis.
		Student shall be able to
	EMERGENCIES IN	understand that how to
	HEMODIALYSIS	diagnose the emergency and to
	TEMODIAL ISIS	manage it during or after the
		dialysis.
		Student shall be able to manage
		the problem medically or to
		solve it how to handle the
		patient with different kind of
		emergencies.
2.1.5		➤ After the topic will be
	INITIATION OF	completed student will be able
	HEMODIALYSIS	to understand the initiations of
		hemodialysis.
		Student will be able to
		understand that how to
		diagnose the initiation coming
		from patient.
		Student will be able to
		understand the signs and
		symptoms by which senior
		technician decided that which
		types of dialysis is suitable for
		patient.

2.1.6	COMPLICATIONS AND ITS MANAGEMENT DURING HEMODIALYSIS	 After the completion of this topic student will be able to identify the different complications. Student will be able to understand the complications and how to manage it. Student will be able to treat the patient on dialysis will different complications. Student will be able to manage the complication medically or in different ways.
2.1.7	STERILE TECHNIQUES IN DIALYSIS	 After the topic will be completed student will be able to understand and follow the different techniques of sterilization. Student shall be able to taking great care to fistula and catheter to avoid infection. Student shall be able to maintain the sterilization in dialysis unit and use health practices. Student shall be able to maintain the catheter fistulas tray and their sterilization techniques. Student shall be able to follow the guidelines of infection control unit.
2.1.8		➤ After the completion of this topic student will be able to understand the water treatment
	WATER TREATMENT	plant.
	PLANT: WORKING	Student will be introduce to the
	PRINCIPLES AND	working and principles of water
	MAINTENANCE	treatmant plant.
	WALLET VERY WELL VOLUME	> Student will be able to
		understand the importance of
		_
		water treatment plant.

		Student will be able to
		understand the importance of
		water treatment plant.
		Student will be able to
		understand the difference in
		RO and RAW water and
		importance of RO water in
0.4.0		dialysis.
2.1.8	_	After the completion of this
		topic student should be able to
		understand introduction of
		anticoagulation and storage of
	ANTICOAGULATION	blood and its components.
		Student shall be able to
		understand the types of
		anticoagulants and their
		principles and relatively problems.
2.1.9		Student shall be able to
4.1.7		understand that how to use the
		anticoagulants in dialysis in
	_	which proportion.Student shall be able to know
		the levels /limits and duration
		of anticoagulant use in dialysis.
		After the completion of this
		topic student will be able to
		understand the introduction of
	HEMODIALYSIS	prerequisites.
	PREREQUISITES	Student will be able to know
	ASSESSMENT OF ADEQUACY OF HEMODIALYSIS	the use of prerequisites and its
		importance.
		Prerequisits is a thing that is
		required as a prior condition to
		perform dialysis.
		Student will be able to
		understand the preparations of
		all prerequisites and their uses.
		After the topic will be
		completed student will be able
		to understand the meaning of
	introduction of adequacy of	
		hemodialysis.
		in the same of the

		> Student will be able to do the
		assessment of adequacy of
		hemodialysis.
		Student will be able to
		understand the clearence
		targets and measurement of
		clearence donein hemodialysis.
		Student will be able to understand the nutritional issues in hemodialysis.
В.		➤ After the topic will be
		completed student will be able
		to understand the condition of
		Dialyzer Reuse.
		Student will be able to know
		the technique of reprocessing of dialyzer.
	DIALYZER REUSE	Dialyzers are of diffeent sizes
		and Bundle volumes, student
		will be able to know the
		description of dialyzer.
		Student will be able to
		understand the process of
		sterilization and cleaning of Dialyzer.
		Diaryzer.

CO2.2PERITONEAL DIALYSIS

S.NO	TOPIC	OUTCOME
.1	PHYSIOLOGY OF PERITONEAL DIALYSIS	After the completion of this topic student will be able to understand the physiology of peritoneum and peritoneal Dialysis.
		Student will be able to know the evaluation and selection of patients for peritoneal dialysis.
		 Student will be able to understand the fluid transportation which comprises three processes that takes place which are Diffusion, Ultrafiltration, & Fluid Absorption.
		 Student will be able to understand the functional anatomy of Peritoneum.
2.2.2	APPARATUS FOR PERITONEAL DIALYSIS	➤ 1. After the completion of this topic student will be able to understand and having knowledge of all the apparatus which are used in Peritoneal Dialysis.
		> Student will be able to understand the volume, glucose level, PH, electrolyte concentration, sterility and temperature of Dialysis Solution.
		Student will be able to having knowledge of different kinds of transfer sets, their designs and their exchange procedures.
		Students have knowledge of various kinds of conectors which are used in Peritoneal Dialysis.
2.2.3	PERITONEAL ACCESS DEVICES	After the successful completion of this topic student will be able to understand all the devices which are used in Peritoneal

		Diolessi-
		Dialysis.
		> Student will be able to having
		kmoledge about the both Acute
		& Chronic Catheters used in
		Peritoneal Dialysis.
		Student will be able to
		understand the design of
		different types of catheters.
		> Student will be able to
		understand the catheter
		placement procedures in ptients
		Peritoneum to perform procedure
		of Peritoneal Dialysis.
224	ACCECCMENT OF	
2.2.4	ASSESSMENT OF	After the completion of this topic
	ADEQUACY OF	student will be able to take th
	PERITONEAL	assssment of adequacy of
	DIALYSIS	Peritoneal Dialysis.
		> Student will be able to having
		knowledge of primary stages that
		is the choice selection of
		Peritoneal Dialysis treatment
		=
		mpdality.
		> Student wll be able to understand
		the nutritional issues in
		peritoneal Dialysi.
		➤ A student has knowledge of
		clearence targets and the
		measurement of cleasrence and
		determinates of clearance.
2.2.5	SOLUTE	➤ After the completion of this topic
	TRANSPORT &	student will be able to having
	VALVE STATUS	knowledge about transportation
	VALVESTATOS	of solutes in Peritoneal Dialysis.
		> Student will be able to determine
		the status of volumes in patient's
		body.
		> Student will be able to
		understand the assessment of
		fluid status, Mechanisms of Fluid
		· ·
		Overload, Diagnosis of
		Peritoneal membrane
		dysfunction and ultrafiltration
		Failure and prevention &
		management of Fluid Overload.
		Student will be able to know
		about that how the solute
		transports and on which purpose.

2.2.6	STERILE TECHNIQUES IN PERITONEAL DIALYSIS	After the topic will be completed student will be able to understand and follow the different techniques of sterilization.
		Student shall be able to taking great care to catheter to avoid infection.
		Stuent shall be able to maintain the sterilization in dialysis room and use healthy practices.
		Student shall be able to maintain the catheter sterilization techniques.
		Student shall be able to follow the guidelines of infection control unit.
2.2.7	PERITONEAL DIALYSIS PREREQUISITES	After the completion of this topic student will be able to understand the introduction of prerequisites.
		Student will be able to know the use of prerequisites and its importance.
		A prerequisite is a thing that is required as a prior condition to perform dialysis.
		> Student will be able to understand the preparations of all prerequisites and their uses.
2.2.8	EMERGENCIES IN PERITONEAL DIALYSIS	After the topic will be completed student shall be able to understand the different kind of emergencies in process of peritoneal dialysis.
		Student shall be able to understand that how to diagnose the emergency and to manage it during or after the peritoneal dialysis.
		Student shall be able to manage the problem medically or to solve it how to handle the patient with different kind of emergencies.
2.2.9	COMPLICATION IN PERITONEAL	After the completion of this topic student will be able to identify

	DIALYSIS	the different complications.
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		> Student will be able to
		understand the complications and
		how to manage it.
		Student will be able to treat the
		patient on dialysis will different
		complications.
		Student will be able to manage
		the complication medically or in
		different ways.
2.2.10	PERITONITIS & EXIT	➤ After the completion of this topic
	SITE INFECTION	student will be able to know the
		introduction of peritonitis & exit
		site infection.
		Student will be able to know
		about the incidence,
		pathogenesis, etiology &
		diagnosis of peritonitis & exit
		site infection.
		➤ Student will be able to know
		about the cause & treatment of
		peritonitis & exit site infection.
		Student will be able to manage
		the problems practically.