# Adult and Geriatric Health Nursing 2 / Clinical NRS 352

Procedure 1	Assisting the patient undergoing lumbar puncture
Procedure 2	Bone marrow aspiration and biopsy
Procedure 3	Irrigating the external auditory canal
Procedure 4	Irrigating the eye (conjunctival irrigation)
Procedure 5	Assisting the patient undergoing suprapubic bladder
	drainage (cystostomy)
Procedure 6	Assisting the patient undergoing (acute) peritoneal dialysis*
Procedure 7	Application of cast
Procedure 8	Removal of cast
Procedure 9	Application of traction

## **Assisting the Patient Undergoing Lumbar Puncture**

#### **Preparation**

- 1 Before procedure, the patient should empty bladder and/or bowel.
- 2 Give a step-by-step summary of the procedure. For lying position,
- 3 If patient has signs of increased intracranial pressure, acomputed tomography scan should be done to rule out mass effect.
- Position the patient on side with a small pillow under head and a pillow between legs.

  Patient should be lying on a firm surface.
- 5 Position the patient on side with a small pillow under head and a pillow between legs. Patient should be lying on a firm surface.
- Assist the patient in maintaining this position by supporting behind the knees and neck.

  Assist the patient to maintain the posture throughout the examination.
- Alternately, for sitting position, have the patient straddle a straight-back chair (facing the back) and rest head against arms, which are folded on the back of the chair.

#### **Procedure**

- The skin is prepared with antiseptic solution (avoiding use of chlorhexidine), and the skin and subcutaneous spaces are infiltrated with local anesthetic agent.
- A spinal needle is introduced at the L3-L4 interspace. The needle is advanced until the "give" of the ligamentum flavum is felt and the needle enters the subarachnoid space. The manometer is attached to the spinal needle.
- 3 After the needle enters the subarachnoid space, help the patient to slowly straighten up.
- 4 Instruct the patient to breathe quietly (not to hold breath or strain) and not to talk.
- 5 The initial pressure reading (opening pressure) is obtained by measuring the level of the fluid column after it comes to rest.
- About 2 to 3 mL of spinal fluid is placed in each of three test tubes for observation, comparison, and laboratory analysis. Spinal fluid should be clear and colorless.
- 7 Closing pressure is the pressure on the manometer after the CSF specimen is collected and/or excess CSF removed.
- 8 After the procedure, the patient is instructed to remain flat for about 2 hours.
- 9 Ensure adequate hydration with oral or Parenteral fluids.
- 10 Monitor for spinal headache, and observe for CSF leak.

### **Bone Marrow Aspiration and Biopsy**

#### **EQUIPMENT**

- Bone marrow aspiration tray
- Marrow aspiration needles with stylets
- Towels
- 25G and 22G needles
- Two 25-mL syringes
- Three 5-mL syringes
- Local anesthetic (1% procaine or Xylocaine)
- Sterile gauze squares
- Sterile gloves, drape
- Skin antiseptic
- Masks and protective eyewear for physician and nurse (check your facility's policy)
- Laboratory equipment
- Coverslips
- Microscopic slides
- Test tubes (plain and heparinized)
- Scalpel blade and handle

#### **Preparation**

- 1. Explain the procedure to the patient. Tell patient when the skin will be marked, antiseptic applied, and the needle puncture performed.
- 2. Give analgesic or tranquilizer as requested, 30 minutes before procedure. May not be necessary for aspiration.
- 3. Place the patient in prone or supine position
- 4. The following sites are most commonly used:
- a. Posterior superior iliac crest
- b. Anterior iliac crest (if patient is very obese)

#### Iliac crest aspiration/biopsy

- 1. Position the patient on the abdomen (prone) or on side with top knee flexed
- 2. The posterior iliac crest is located and marked.
- 3. The skin area is prepared and draped. The marked area is infiltrated with local anesthetic through the skin and subcutaneous tissue to the periosteum of the bone.
- 4. A small incision may be made.
- The bone marrow needle, with stylet in place, is introduced through the incision.

  The needle is advanced and rotated by using firm and steady pressure. When the needle is felt to enter the outer cortex of the bone marrow cavity, the stylet is removed and the syringe attached. Negative pressure is applied, and a small volume of blood and marrow is aspirated.
- A biopsy is taken by using a special needle equipped with a sharp cutting edge and a hollow core.
- 7 After removal of needle, apply pressure to site and dressing.

### **Irrigating the External Auditory Canal**

#### **EQUIPMENT AND SOLUTIONS**

- Kind and amount of solution desired (usually warm water)
- Ear syringe and irrigation device
- Protective towels
- Cotton balls and cotton-tipped applicators
- Solution bowl or emesis basin
- Bag for disposable items

#### **Preparation**

- 1. After explaining procedure to the patient, place in aposition of sitting or lying with head tilted forward and toward affected ear
- 2. Position protective towels.

#### **Procedure**

- 1. Use a cotton applicator to remove any discharge on outer ear.
- 2. Place basin close to the patient's head and under the ear.

Test temperature of solution. It should be comfortable to the inner aspect of wrist area (approximately 98.6° F [37° C] or body temperature).

- 3. Sit the patient in a chair appropriate for the procedure with the ear to be irrigated facing the nurse
- 4. Inspect both ears with the otoscope.
- 5. Place the protective cape and disposable towel in position, and ask the patient to hold the receiver under the ear.
- 6. Check your head light or mobile light is in place.
- 7. sitting at the same level as the patient when carrying out this procedure.
- 8. Gently pull the pinna upwards and outwards to straighten the meatus.
- 9. Place the tip of the nozzle into the external auditory meatus entrance. Nothing should be inserted into the ear further than the part that can be seen from the outside. Warn the patient that you are about to start and that if they have any symptoms of pain, dizziness or nausea
- 10. If you have not managed to remove the wax within 5minutes of irrigation, it may be worthwhile moving on to the other ear, as the introduction of water via the irrigating procedure will soften the wax and you can retry irrigation after about 15minutes
- 11. Periodically inspect the meatus with the auriscope and inspect the solution running into the receiver.
- 12. After removal of the wax, ask the patient to dry mop the excess water from the meatus. Dry mop excess water from meatus under direct vision because stagnation of water and any abrasion of the skin during the procedure may predispose the otitis externa to infection.

### **Irrigating the Eye (Conjunctival Irrigation)**

#### **EQUIPMENT**

- An eyedropper, aseptic bulb syringe, or plastic bottle with prescribed solution depending on the extent of irrigation needed (usually more than 1,000 mL for each eye)
- For copious use (ie, chemical burns), sterile normal saline or prescribed solution and
   I.V. setup with attached tubing
- Irrigating lens for chemical injury (contraindicated for particulate matter)
- Litmus paper
- Basin, towels

#### **Preparation**

- 1. Verify the eye to be irrigated and the solution and amount of irrigant. Work as quickly as possible and have equipment ready ahead of time, if chemical injury is suspected.
- 2. The patient may sit with head tilted back or lie in a supine position.
- 3. Instruct the patient to tilt head toward the side of the affected eye.

#### **Procedure**

- 1. Test pH using plain litmus paper in cul de sac of affected eye.
- 2. Wash eyelashes and lids with prescribed solution at room temperature; a curved basin should be placed on the affected side of the face to catch the outflow.
- 3. Evert the lower conjunctival sac. (If feasible, have the patient pull down lower lid with index finger.)
- 4. Instruct the patient to look up; avoid touching eye with equipment.
- 5. Allow irrigating fluid to flow from the inner canthus to the outer canthus along the conjunctival sac.
- 6. Use only enough force to flush secretions from conjunctiva.(Allow patient to hold receptacle near the eye tocatch fluid.)
- 7. Occasionally, have patient close eyes.
- 8. Wait 1 minute after irrigation and retest pH.
- 9. Pat eye dry and dry the patient's face with a soft cloth.
- 10. Record kind and amount of fluid used as well as its effectiveness

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# Assisting the Patient Undergoing Suprapubic Bladder Drainage (Cystostomy)

#### **EQUIPMENT**

- Sterile suprapubic drainage system package (disposable)
- Skin germicide for suprapubic skin preparation; sterile gloves
- Local anesthetic agent if needed

#### **Procedure**

- 1. Place patient in a supine position with one pillow under head.
- 2. Expose the abdomen.
- 3. The bladder is distended with 300–500 mL sterile saline in a urethral catheter, which is removed, or patient is given fluids (PO or I.V.) before the procedure.
- 4. The suprapubic area is surgically prepared. After the skin is dried, the needle entry point is located.
- **5.** The skin and subcutaneous tissues are infiltrated with local anesthesia.
- 6. A small incision may be made.
- 7. The catheter is introduced via a guide wire, needle, or cannula through the incision and advanced in a slightly caudal direction.
- 8. The catheter is advanced until the flange is against the skin where it is secured with tape, a body seal system, or sutures.
- 9. The catheter is connected to a sterile drainage system. Secure drainage tubing to lateral abdomen with tape.
- 10. If the catheter is not draining properly, withdraw the catheter 1 inch (2.5 cm) at a time until urine begins to flow. Do not dislodge catheter from bladder.
- 11. The drainage is maintained continuously for several days. If a "trial of voiding" is requested, the catheter is clamped for 4 hours.
  - a. Have patient attempt to void while the catheter is clamped.
  - b. After patient voids, unclamp the catheter and measure residual urine.
  - c. Usually, if the amount of residual urine is less than 100 mL on two separate occasions (AM and PM),the catheter may be removed.
  - d. If the patient complains of pain or discomfort, or if the residual urine is over the prescribed amount, the catheter is usually left open. When the catheter is removed, a sterile dressing is placed over the site. Usually the tract will close within 48 hours.
- 11. Monitor of complications

## Assisting the Patient Undergoing (Acute) Peritoneal Dialysis\* EQUIPMENT

- \_ Dialysis administration set (disposable, closed system)
- \_ Peritoneal dialysis solution as requested
- \_ Supplemental drugs as requested
- \_ Local anesthesia
- \_ Central venous pressure monitoring equipment
- \_ Suture set
- \_ Sterile gloves
- \_ Skin antiseptic

#### Procedure

- 1. Prepare patient emotionally and physically for the procedure.
- 2. Ensure that the consent form has been signed.
- 3. Weigh patient before dialysis and every 24 hours thereafter, preferably on an in-bed scale.
- 4. Take temperature, pulse, respiration, and blood pressure readings before dialysis.
- 5. Have patient empty bladder.
- 6. Flush the tubing with dialysis solution.
- 7. Make patient comfortable in a supine position. Have

#### **Performance phase**

The following is a brief summary of the method of insertion of a temporary peritoneal catheter (*done under strict asepsis*).

- 1. The abdomen is prepared surgically, and the skin and subcutaneous tissues are infiltrated with a local anesthetic.
- 2. A small midline incision is made 11/4 to 2 inches(3–5 cm) below the umbilicus
- 3. The trocar is inserted through the incision with the stylet in place, or a thin stylet cannula may be inserted percutaneously
- 4. Patient is requested to raise head from the pillow after the trocar is introduced
- 5. When the peritoneum is punctured, the trocar is directed toward the left side of the pelvis. The stylet is removed, and the catheter is inserted through the trocar and maneuvered into position
- a. Dialysis fluid is allowed to run through the catheter while it is being positioned

- 6. After the trocar is removed, the skin may be closed with a purse-string suture. (This is not always done.) A sterile dressing is placed around the catheter
- 7. Attach the catheter connector to the administration set, which has been previously connected to the container of
- 8. Drugs (heparin, potassium, antibiotic) are added in advance
- 9. Permit the dialyzing solution to flow unrestricted into
- 10.Allow the fluid to remain in the peritoneal cavity for the prescribed time period (20–30 minutes). Prepare the next exchange while the fluid is in the peritoneal cavity.
- 11.Unclamp the outflow tube. Drainage should take approximately 20–30 minutes, although the time varies with each patient.
- 12. Check outflow for cloudy appearance, blood, or fibrin.
- 13.If the fluid is not draining properly, move patient from side to side to facilitate the removal of peritoneal drainage. The head of the bed may also be elevated.
- 14. Ascertain catheter patency. Check for closed clamp, kinked tubing, or air lock. *Never push the catheter in.*
- 15. When the outflow drainage ceases to run, clamp off the drainage tube and infuse the next exchange, using strict aseptic technique
- 16.Take blood pressure and pulse every 15 minutes during the first exchange and every hour thereafter. Monitor the heart rate for signs of dysrhythmia.
- 17. Take patient's temperature every 4 hours (especially after catheter removal).
- 18. The procedure is repeated until the blood chemistry levels improve. The usual duration for short-term dialysis is 48–72 hours. Depending on patient's condition, 48–72 exchanges will be necessary.
- 19. Keep an exact record of patient's fluid balance during the treatment.
- a. Know the status of patient's loss or gain of fluid at the end of each exchange. Check dressing for leakage and weight on gram scale if significant.
- b. The fluid balance should be about even or should show slight fluid loss or gain, depending on patient's fluid status.
- 20. Promote patient comfort during dialysis.
- a. Provide frequent back care and massage pressure areas
- b. Have patient turn from side to side.
- c. Elevate head of bed at intervals.

- d. Allow patient to sit in chair for brief periods if condition permits (only with surgically implanted catheter; with trocar, patient is usually on bed rest).
- 21. Observe for the following:
- a. Abdominal pain—note the time of discomfort during exchange cycle and duration of symptoms.
- b. Dialysate leakage—change the dressings frequently, being careful not to dislodge the catheter; use sterile plastic drapes to prevent contamination.

# **Procedure 1**Assisting the Patient Undergoing Lumbar Puncture

No	Procedure Steps	Perfo	rmed	
	_	Yes	No	
A	Preparation			
1	Before procedure, the patient should empty bladder and/or bowel.			
2	Give a step-by-step summary of the procedure. For lying position,			
3	If patient has signs of increased intracranial pressure, acomputed tomography scan should be done to rule out mass effect.			
4	Position the patient on side with a small pillow under head and a pillow between legs. Patient should be lying on a firm surface.			
5	Position the patient on side with a small pillow under head and a pillow between legs. Patient should be lying on a firm surface.			
6	Assist the patient in maintaining this position by supporting behind the knees and neck. Assist the patient to maintain the posture throughout the examination.			
7	Alternately, for sitting position, have the patient straddle a straight-back chair (facing the back) and rest head against arms, which are folded on the back of the chair.			
C	Procedure			
1	The skin is prepared with antiseptic solution (avoiding use of chlorhexidine), and the skin and subcutaneous spaces are infiltrated with local anesthetic agent.			
3	A spinal needle is introduced at the L3-L4 interspace. The needle is advanced until the "give" of the ligamentum flavum is felt and the needle enters the subarachnoid space. The manometer is attached to the spinal needle.  After the needle enters the subarachnoid			
J	space, help the patient to slowly straighten up.			

4	Instruct the patient to breathe quietly (not to hold breath or strain) and not to talk.		
5	The initial pressure reading (opening pressure) is obtained by measuring the level of the fluid column after it comes to rest.		
6	About 2 to 3 mL of spinal fluid is placed in each of three test tubes for observation, comparison, and laboratory analysis. Spinal fluid should be clear and colorless.		
7	Closing pressure is the pressure on the manometer after the CSF specimen is collected and/or excess CSF removed.		
8	After the procedure, the patient is instructed to remain flat for about 2 hours.		
9	Ensure adequate hydration with oral or parenteral fluids.		
10	Monitor for spinal headache, and observe for CSF leak.		

## **Bone Marrow Aspiration and Biopsy**

- Bone marrow aspiration tray
- Marrow aspiration needles with stylets
- Towels
- 25G and 22G needles
- Two 25-mL syringes
- Three 5-mL syringes
- Local anesthetic (1% procaine or Xylocaine)
- Sterile gauze squares
- Sterile gloves, drape
- Skin antiseptic
- Masks and protective eyewear for physician and nurse (check your facility's policy)
- Laboratory equipment
- Coverslips
- Microscopic slides
- Test tubes (plain and heparinized)
- Scalpel blade and handle

		Perfo	rmed	CLO
No	Procedure Steps	Yes	No	
A	Preparation			
	Explain the procedure to the patient. Tell patient when the skin will be marked, antiseptic applied, and the needle puncture performed.			
	Give analgesic or tranquilizer as requested, 30 minutes before procedure. May not be necessary for aspiration.			
	Place the patient in prone or supine position.			
	The following sites are most commonly used: a. Posterior superior iliac crest b. Anterior iliac crest (if patient is very obese)			
	Iliac crest aspiration/biopsy			
1	Position the patient on the abdomen (prone) or on side with top knee flexed			
2	The posterior iliac crest is located and marked			
3	The skin area is prepared and draped. The marked area is infiltrated with local anesthetic through the skin and subcutaneous tissue to the periosteum of the bone.			

4	A small incision may be made.		
5	The bone marrow needle, with stylet in place, is introduced through the incision.		
6	The needle is advanced and rotated by using firm and steady pressure. When the needle is felt to enter the outer cortex of the bone marrow cavity, the stylet is removed and the syringe attached. Negative pressure is applied, and a small volume of blood and marrow is aspirated.		
7	A biopsy is taken by using a special needle equipped with a sharp cutting edge and a hollow core.		
8	After removal of needle, apply pressure to site and dressing.		

## **Irrigating the External Auditory Canal**

### **EQUIPMENT AND SOLUTIONS**

- Kind and amount of solution desired (usually warm water)
- Ear syringe and irrigation device
- Protective towels
- Cotton balls and cotton-tipped applicators
- Solution bowl or emesis basin
- Bag for disposable items

No	Procedure Steps	Perf	ormed	Comments
A	Preparation	Yes	No	
	After explaining procedure to the patient, place in a position of sitting or lying with head tilted forward and toward affected ear.			
	Position protective towels.			
В	Procedure			
	Use a cotton applicator to remove any discharge on outer ear.			
	Place basin close to the patient's head and under the ear.			
	Test temperature of solution. It should be comfortable to the inner aspect of wrist area (approximately 98.6° F [37° C] or body temperature).			
	d) Wash hands			
	Sit the patient in a chair appropriate for the procedure with the ear to be irrigated facing the nurse			
	Inspect both ears with the otoscope			
	Place the protective cape and disposable towel in position, and ask the patient to hold the receiver under the ear.			
	Check your head light or mobile light is in place			
	sitting at the same level as the patient when carrying out this procedure			
	Gently pull the pinna upwards and outwards to straighten the meatus			

Place the tip of the nozzle into the external auditory meatus entrance. Nothing should be inserted into the ear further than the part that can be seen from the outside. Warn the patient that you are about to start and that if they have any symptoms of pain, dizziness or nausea  If you have not managed to remove the wax within 5minutes of irrigation, it may be worthwhile moving on to the other ear, as the introduction of water via the irrigating procedure will soften the wax and you can retry irrigation after about 15minutes		
Periodically inspect the meatus with the auriscope and inspect the solution running into the receiver.		
After removal of the wax, ask the patient to dry mop the excess water from the meatus. Dry mop excess water from meatus under direct vision because stagnation of water and any abrasion of the skin during the procedure may predispose the otitis externa to infection.		

## **Irrigating the Eye (Conjunctival Irrigation)**

- An eyedropper, aseptic bulb syringe, or plastic bottle with prescribed solution depending on the extent of irrigation needed (usually more than 1,000 mL for each eye)
- For copious use (ie, chemical burns), sterile normal saline or prescribed solution and I.V. setup with attached tubing
- Irrigating lens for chemical injury (contraindicated for particulate matter)
- Litmus paper
- Basin, towels

No	Procedure Steps	perfo	rmed	Comments
A	Preparation	Yes	No	
	Verify the eye to be irrigated and the solution			
	and amount of irrigant. Work as quickly as			
	possible and have equipment ready ahead of			
	time, if chemical injury is suspected.			
	The patient may sit with head tilted back or lie			
	in a supine position.			
	Instruct the patient to tilt head toward the side			
	of the affected eye.			
В	Procedure			
1.	Test pH using plain litmus paper in cul de sac			
	of affected eye.			
2.	Wash eyelashes and lids with prescribed			
	solution at room temperature; a curved basin			
	should be placed on the affected side of the			
	face to catch the outflow.			
3.	Evert the lower conjunctival sac. (If feasible,			
	have the patient pull down lower lid with			
	index finger.)			
4.	Instruct the patient to look up; avoid touching			
	eye with equipment.			
5.	Allow irrigating fluid to flow from the inner			
	canthus to the outer canthus along the			
	conjunctival sac.			
6.	Use only enough force to flush secretions from			
	conjunctiva.(Allow patient to hold receptacle			
	near the eye to catch fluid.)			
7.	Occasionally, have patient close eyes.			
8.	Wait 1 minute after irrigation and retest pH.			
9.	Pat eye dry and dry the patient's face with a			
	soft cloth.			
10.	Record kind and amount of fluid used as well			
	as itseffectiveness.			

# Assisting the Patient Undergoing Suprapubic Bladder Drainage (Cystostomy)

- Sterile suprapubic drainage system package (disposable)
- Skin germicide for suprapubic skin preparation; sterile gloves
- Local anesthetic agent if needed

No	Procedure Steps	Perf	ormed	Comments
A	Procedure	Yes	No	
1.	Place patient in a supine position with one pillow			
	under head.			
2.	Expose the abdomen.			
3.	The bladder is distended with 300–500 mL sterile			
	saline in a urethral catheter, which is removed, or			
	patient is given fluids (PO or I.V.) before the			
<u> </u>	procedure.			
4.	The suprapubic area is surgically prepared. After			
	the skin is dried, the needle entry point is located.			
5.	The skin and subcutaneous tissues are infiltrated with local anesthesia.			
-			<u> </u>	
6. 7.	A small incision may be made.			
/.	The catheter is introduced via a guide wire, needle, or cannula through the incision and			
	advanced in a slightly caudal direction.			
8.	The catheter is advanced until the flange is		<u> </u>	
0.	against the skin where it is secured with tape, a			
	body seal system, or sutures.			
9.	The catheter is connected to a sterile drainage			
	system.			
10.	Secure drainage tubing to lateral abdomen with			
	tape.			
11.	If the catheter is not draining properly, withdraw			
	the catheter 1 inch (2.5 cm) at a time until urine			
	begins to flow. Do not dislodge catheter from			
12	bladder.			
12.	The drainage is maintained continuously for			
13.	several days.			
13.	If a "trial of voiding" is requested, the catheter is clamped for 4 hours.			
	a. Have patient attempt to void while the catheter			
	is clamped.			
	b. After patient voids, unclamp the catheter and			
	measure residual urine.			

	c. Usually, if the amount of residual urine is less than 100 mL on two separate occasions (AM and PM), the catheter may be removed. d. If the patient complains of pain or discomfort, or if the residual urine is over the prescribed amount, the catheter is usually left open.
14.	When the catheter is removed, a sterile dressing is placed over the site. Usually the tract will close within 48 hours.
15.	Monitor for complications.

## Assisting the Patient Undergoing (Acute) Peritoneal Dialysis

- \_ Dialysis administration set (disposable, closed system)
- Peritoneal dialysis solution as requested
- \_ Supplemental drugs as requested
- \_ Local anesthesia
- \_ Central venous pressure monitoring equipment
- \_ Suture set
- \_ Sterile gloves
- \_ Skin antiseptic

No	Procedure Steps	Perf	ormed	Comments
A	Procedure	Yes	No	
	1. Prepare patient emotionally and physically for			
	the procedure.			
	2. Ensure that the consent form has been signed.			
	3. Weigh patient before dialysis and every 24			
	hours thereafter, preferably on an in-bed scale.			
	4. Take temperature, pulse, respiration, and blood			
	pressure readings before dialysis.	<u> </u>		
	5. Have patient empty bladder.			
	6. Flush the tubing with dialysis solution.			
	7. Make patient comfortable in a supine position.			
	Have			
	Performance phase	1		
	The following is a brief summary of the method			
	of insertion of a temporary peritoneal catheter			
	(done under strict asepsis).			
	1. The abdomen is prepared surgically, and the			
	skin and subcutaneous tissues are infiltrated with			
	a local anesthetic.			
	2. A small midline incision is made 11/4 to 2			
	inches (3–5 cm) below the umbilicus.			
	3. The trocar is inserted through the incision with			
	the stylet in place, or a thin stylet cannula may be			
	inserted percutaneously.			
	4. Patient is requested to raise head from the			
	pillow after the trocar is introduced.			
	5. When the peritoneum is punctured, the trocar is			
	directed toward the left side of the pelvis. The			
	stylet is removed, and the catheter is inserted			
	through the trocar and maneuvered into position.			

a Dialysis fluid is allowed to run through the	
a. Dialysis fluid is allowed to run through the	
catheter while it is being positioned.	
6. After the trocar is removed, the skin may be	
closed with a purse-string suture. (This is not	
always done.) A sterile dressing is placed around	4
the catheter.	<sup>1</sup>
the catheter.	
7. Attach the catheter connector to the	
administration set, which has been previously	
connected to the container of Drugs (heparin,	
potassium, antibiotic) are added in advance	
9. Permit the dialyzing solution to flow	
unrestricted into	
10.Allow the fluid to remain in the peritoneal	
cavity for the prescribed time period (20–30	
minutes). Prepare the next exchange while the	
fluid is in the peritoneal cavity.	
11.Unclamp the outflow tube. Drainage should	
take approximately 20–30 minutes, although the	;
time varies with each patient.	
12.Check outflow for cloudy appearance, blood,	
or fibrin.	
13.If the fluid is not draining properly, move	
patient from side to side to facilitate the removal	
of peritoneal drainage. The head of the bed may	
also be elevated.	
14. Ascertain catheter patency. Check for closed	
clamp, kinked tubing, or air lock. Never push the	e
catheter in.	
15. When the outflow drainage ceases to run,	
clamp off the drainage tube and infuse the next	
exchange, using strict aseptic technique	
16. Take blood pressure and pulse every 15	.
minutes during the first exchange and every hour	r
thereafter. Monitor the heart rate for signs of	
dysrhythmia.	+ + +
17. Take patient's temperature every 4 hours (especially after catheter removal).	
18. The procedure is repeated until the blood	<del>                                     </del>
chemistry levels improve. The usual duration for	r
short-term dialysis is 48–72 hours. Depending on	
patient's condition, 48–72 exchanges will be	·
necessary.	
19.Keep an exact record of patient's fluid balance	ce
during the treatment	
a. Know the status of patient's loss or gain of	
fluid at the end of each exchange. Check dressing	g

for leakage and weight on gram scale if	
significant.	
b. The fluid balance should be about even or	
should show slight fluid loss or gain, depending	
on patient's fluid status.	
20.Promote patient comfort during dialysis.	
a. Provide frequent back care and massage	
pressure areas	
b. Have patient turn from side to side.	
c. Elevate head of bed at intervals.	
d. Allow patient to sit in chair for brief periods if	
condition permits (only with surgically implanted	
catheter; with trocar, patient is usually on bed	
rest).	
21.Observe for the following:	
a. Abdominal pain—note the time of discomfort	
during exchange cycle and duration of symptoms.	
b. Dialysate leakage—change the dressings	
frequently, being careful not to dislodge the	
catheter; use sterile plastic drapes to prevent	
contamination.	
c. Place the patient in a more upright position and	
use smaller fluid volumes to try to relieve pain	
and leakage.	

## **Check List For Cast Application**

No	Procedure Steps	Performed		Comments	
		yes	no		
1	Review the medical record and medical orders to				
	determine the need for the cast.				
2	Perform hand hygiene. Put on gloves and/or				
	other PPE, as indicated.				
3	Identify the patient. Explain the procedure to the				
	patient and verify area to be casted.				
4	Perform a pain assessment and assess for muscle				
	spasm.Administer prescribed medications in				
	sufficient time to allow for the full effect of the				
	analgesic and/or muscle relaxant.				
5	Close curtains around bed and close the door to				
	the room, if possible. Place the bed at an				
	appropriate and comfortable working height, if				
	necessary.				
6	Position the patient as needed, depending on the				
	type of cast being applied and the location of the				
	injury. Support the extremity or body part to be				
	casted.				
7	Drape the patient with the waterproof pads.				
8	Cleanse and dry the affected body part.				
9	Position and maintain the affected body part in				
	the position indicated by the physician as the				
	stockinette, sheet wadding, and padding is				
	applied. The stockinette should extend beyond				
	the ends of the cast. As the wadding is applied,				
	check for wrinkles.				
10	Continue to position and maintain the affected				
	body part in the position indicated by the				
	physician or advanced practice professional as				
	the casting material is applied. Assist with				
	finishing by folding the stockinette or other				
	padding down over the outer edge of the cast.				
11	Support the cast during hardening. Handle				
	hardening				
	plaster casts with the palms of hands, not fingers.				
	Support the cast on a firm, smooth surface. Do				
	not rest it on a hard surface or sharp edges.				
	Avoid placing pressure on the cast.				
12	Elevate the injured limb above heart level with				
	pillow or bath blankets, as ordered, making				
	sure pressure is evenly distributed under the				
	cast.				

13	Place the bed in the lowest position, with the		
	side rails up. Make sure the call bell and other		
	necessary items are within easy reach.		
14	Remove gloves and any other PPE, if used.		
	Perform hand		
	hygiene.		
15	Obtain x-rays, as ordered.		
16	Instruct the patient to report pain, odor, drainage,		
	changes in sensation, abnormal sensation, or the		
	inability to move fingers or toes of the affected		
	extremity.		
17	Leave the cast uncovered and exposed to the air.		
	Reposition the patient every 2 hours. Depending		
	on facility policy, a fan may be used to dry the		
	cast.		

## CHECK LIST FOR CAST REMOVAL

No	Procedure Steps	Performed		Performed Comments
		Yes	No	
1	Review the medical record and medical orders to determine the need to remove the cast.			
2	Identify the patient. Explain the procedure to the patient			
3	Assemble all the necessary articles			
4	Determine where the cut will be made. Mark the area to be cut with a felt pen.			
5	Close curtains around bed and close the door to the room, if possible. Place the bed at an appropriate and comfortable working height, if necessary.			
6	Inform the patient to shield eyes.			
7	Grasp the electric cutter as illustrated.			
8	Rest the thumb on the cast.			
	Turn on the electric cutter. Push the blade firmly and gently through the cast while holding the thumb against the cast to steady the blade while cutting through the cast.			
9	Cut the cast on both sides.			
	Separate the cast with the hands.			
10	Cut through the padding and stockinette with scissors			
11	Lift the extremity carefully out of the posterior portion of the cast			
	Clean the skin gently with mild soap and water. Blot dry. Apply a skin cream			
12	Remove gloves and any other PPE, if used. Perform hand hygiene.			
13	Remove gloves and any other PPE, if used. Perform hand hygiene.			
14	Emphasize the importance of continuing the prescribed exercises			
15	Record the procedure			

## CHECK LIST FOR APPLICATION OF TRACTION

No	Procedure Steps	Performed yes No		Comments
				-
1	Review the medical record and the nursing plan	Jus	1,0	
	of care to determine the type of traction being			
	used and care for the affected body part.			
2	Perform hand hygiene. Put on PPE, as indicated.			
3	Identify the patient. Explain the procedure to the			
	patient, emphasizing the importance of			
	maintaining counterbalance, alignment, and			
	position.			
4	Perform a pain assessment and assess for muscle			
	spasm.Administer prescribed medications in			
	sufficient time to allow for the full effect of the			
	analgesic and/or muscle relaxant.			
5	Close curtains around bed and close the door to			
	the room, if possible. Place the bed at an			
	appropriate and comfortable			
	working height.			
6	Ensure the traction apparatus is attached securely			
	to the bed. Assess the traction setup.			
7	Check that the ropes move freely through the			
	pulleys. Check that all knots are tight and are			
	positioned away from the pulleys. Pulleys should			
	be free from the linens.			
8	Place the patient in a supine position with the			
	foot of the bed elevated slightly. The patient's			
	head should be near the head of the bed and in			
	alignment.			
9	Cleanse the affected area. Place the elastic			
4.0	stocking on the affected limb, as appropriate.			
10	Place the traction boot over the patient's leg. Be			
	sure the patient's heel is in the heel of the boot.			
44	Secure the boot with the straps.			
11	Attach the traction cord to the footplate of the			
	boot. Pass the rope over the pulley fastened at the			
	end of the bed. Attach the weight to the hook on			
	the rope, usually 5 to 10 pounds for an adult.			
	Gently let go of the weight. The weight should			
12	hang freely, not touching the bed or the floor.			
12	Check the patient's alignment with the traction.			
13	Check the boot for placement and alignment.			
	Make sure the line of pull is parallel to the bed			
	and not angled downward.			

14	Place the bed in the lowest position that still	
	allows the weight to hang freely.	
15	Remove PPE, if used. Perform hand hygiene.	