# Adult and Geriatric Health Nursing 1 / Clinical NRS 244

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# Procedure 1 Obtaining an Electrocardiogram (ECG)

- 1. Verify the order for an ECG on the patient's medical record.
- 2. Gather all equipment and bring to bedside.
- 3. Perform hand hygiene and put on PPE, if indicated.
- 4. Identify the patient.
- 5. Close curtains around bed and close the door to the room,
- 6. explain the procedure to the patient.
- 7. Place the ECG machine close to the patient's bed, and plug the power cord into the wall outlet.
- 8. If the bed is adjustable, raise it to a comfortable working height, usually elbow height of the caregiver
- 9. Have the patient lie supine in the center of the bed with the arms at the sides. Raise the head of the bed if necessary to promote comfort.
- 10. Expose the patient's arms and legs, and drape appropriately.
- 11. Encourage the patient to relax the arms and legs.
- 12. Make sure the feet do not touch the bed's footboard.
- 13. Select flat, fleshy areas on which to place the electrodes. Avoid muscular and bony areas. If the patient has an amputated limb, choose a site on the stump.
- 14. If an area is excessively hairy, clip the hair. Do not shave hair. Clean excess oil or other substances from the skin with soap and water and dry it completely.
- 15. Apply the limb lead electrodes.
- 16. Connect the limb lead wires to the electrodes. Make sure the metal parts of the electrodes are clean and bright.
- 17. Expose the patient's chest.
- 18. Apply the precordial lead electrodes.: V1: Fourth intercostal space at right sternal border V2: Fourth intercostal space at left sternal border V3: Halfway between V2 and V4 V4: Fifth intercostal space at the left midclavicular line V5: Fifth intercostal space at anterior axillary line (halfway between V4 and V6) V6: Fifth intercostal space at midaxillary line, level with V4
- 19. Connect the precordial lead wires to the electrodes. Make sure the metal parts of the electrodes are clean and bright.
- 20. After the application of all the leads, make sure the paperspeed selector is set to the standard 25 m/second and that the machine is set to full voltage.
- 21. If necessary, enter the appropriate patient identification data into the machine.
- 22. Ask the patient to relax and breathe normally. Instruct the patient to lie still and not to talk while you record the ECG.
- 23. Press the AUTO button.
- 24. When the machine finishes recording the 12-lead ECG, remove the electrodes and clean the patient's skin
- 25. Return the patient to a comfortable position. Lower bed height and adjust the head of bed to a comfortable position.
- 26. Clean ECG machine per facility policy. If not done electronically from data entered into the machine, label the ECG with the patient's name, date of birth, location, date and time of recording, and other relevant information, such as symptoms that occurred during the recording

- 27. Remove additional PPE, if used.
- 28. Perform hand hygiene

# **Applying a Cardiac Monitor**

- 1. Verify the order for cardiac monitoring on the patient's medical record.
- 2. Gather all equipment and bring to bedside.
- 3. Perform hand hygiene and put on PPE, if indicated.
- 4. Identify the patient.
- 5. Close curtains around bed and close the door to the room
- 6. Explain the procedure to the patient.
- 7. Connect an electrode to each of the lead wires, carefully checking that each lead wire is in its correct outlet.
- 8. If the bed is adjustable, raise it to a comfortable working height, usually elbow height of the caregiver
- 9. Expose the patient's chest and determine electrode positions, (If necessary, clip the hair from an area about 10 cm in diameter around each electrode site).
- 10. Remove the backing from the pre gelled electrode.
- 11. Apply the electrode to the site and press firmly to ensure a tight seal. Repeat with the remaining electrodes to complete the three-lead or five lead system.
- 12. When all the electrodes are in place, connect the appropriate lead wire to each electrode. Check waveform for clarity, position, and size.
- 13. Set the upper and lower limits of the heart rate alarm, based on the patient's condition or unit policy
- 14. For telemetry, place the transmitter in the pouch in the hospital gown.
- 15. To obtain a rhythm strip, press the RECORD key either at the bedside for monitoring or at the central station for telemetry.
- 16. Label the strip with the patient's name and room number, date, time, and rhythm identification.
- 17. Place the rhythm strip in the appropriate location in the patient's chart.
- 18. Return the patient to a comfortable position.
- 19. Lower bed height and adjust the head of bed to a comfortable position.
- 20. Remove additional PPE, if used.
- 21. Perform hand hygiene.

# **Caring for a Gastrostomy Tube**

Goal :The patient ingests an adequate diet and exhibits no signs and symptoms of irritation, excoriation, or infection at the tube insertion site.

- 1. Assemble equipment. Verify the medical order or facility policy and procedure regarding site care.
- 2. Perform hand hygiene and put on PPE, if indicated.
- 3. Identify the patient.
- 4. Explain the procedure to the patient and why this intervention is needed. Answer any questions as needed.
- 5. Assess patient for presence of pain at the tube insertion site.
- 6. Pull the patient's bedside curtain.
- 7. Raise bed to a comfortable working position, usually elbow height of the caregiver
- 8. Put on gloves. If gastrostomy tube is
  - a. new and still has sutures holding it in place, dip cotton-tipped applicator into sterile saline solution and gently clean around the insertion site, removing any crust or drainage. Avoid adjusting or lifting the external disk for the first few days after placement except to clean the area
  - b. gastric tube insertion site has healed and the sutures are removed, wet a washcloth and apply a small amount of soap onto washcloth. Gently cleanse around the insertion, removing any crust or drainage. Rinse site, removing all soap.
- 9. Pat skin around insertion site dry.
- 10. If the sutures have been removed, gently rotate the guard or external bumper 90 degrees at least once a day. Assess that the guard or external bumper is not digging into the surrounding skin. Avoid placing any tension on the feeding tube.
- 11. Leave the site open to air unless there is drainage. If drainage is present, place one thickness of precut gauze pad or drain sponge under the external bumper and change as needed to keep the area dry. Use a skin protectant or substance such as zinc oxide to prevent skin breakdown.
- 12. Remove gloves.
- 13. Lower the bed and assist the patient to a position of comfort as needed.
- 14. Remove additional PPE, if used. Perform hand hygiene.

# **Changing and Emptying an Ostomy Appliance**

- 1. Bring necessary equipment to the bedside stand or over bed table
- 2. Perform hand hygiene and put on PPE, if indicated.
- 3. Identify the patient.
- 4. Close curtains around bed and close the door to the room,
- 5. Explain what you are going to do and why you are going to do it to the patient. Encourage the patient to observe or participate, if possible
- 6. Assist patient to a comfortable sitting or lying position in bed or a standing or sitting position in the bathroom.

# **Emptying an Appliance**

- 1. Put on disposable gloves.
- 2. Remove clamp and fold end of pouch upward like a cuff
- 3. Empty contents into bedpan, toilet, or measuring device.
- 4. Wipe the lower 2 inches of the appliance or pouch with toilet tissue
- 5. Un cuff edge of appliance or pouch and apply clip or clamp, or secure
- 6. Remove gloves.
- 7. Assist patient to a comfortable position.
- 8. If appliance is not to be changed,
- 9. Remove additional PPE,
- 10. Perform hand hygiene.

# **Changing an Appliance**

- 1. Place a disposable pad on the work surface.
- 2. Set up the wash basin with warm water and the rest of the supplies.
- 3. Place a trash bag within reach.
- 4. Put on clean gloves.
- 5. Place waterproof pad under the patient at the stoma site.
- 6. Empty the appliance as described previously.
- 7. Gently remove pouch faceplate from skin by pushing skin from appliance rather than pulling appliance from skin.
- 8. Start at the top of the appliance, while keeping the abdominal skin taut.
- 9. Apply a silicone-based adhesive remover by spraying or wiping with the remover wipe.
- 10. Place the appliance in the trash bag, if disposable. If reusable, set aside to wash in lukewarm soap and water and allow to air dry after the new appliance is in place.
- 11. Use toilet tissue to remove any excess stool from stoma.
- 12. Cover stoma with gauze pad.
- 13. Clean skin around stoma with mild soap and water or a cleansing agent and a washcloth.
- 14. Remove all old adhesive from skin; use an adhesive remover, as necessary. Do not apply lotion to peristomal area.

- 15. Gently pat area dry. Make sure skin around stoma is thoroughly dry. Assess stoma and condition of surrounding skin.
- 16. Apply skin protectant to a 2-inch (5 cm) radius around the stoma, and allow it to dry completely, which takes about 30 seconds.
- 17. Lift the gauze squares for a moment and measure the stoma opening, using the measurement guide. Replace the gauze. Trace the same-size opening on the back center of the appliance. Cut the opening 1/8 inch larger than the stoma size.
- 18. Remove the backing from the appliance. Quickly remove the gauze squares and ease the appliance over the stoma. Gently press onto the skin while smoothing over the surface. Apply gentle pressure to appliance for 5 minutes.
- 19. Close bottom of appliance or pouch by folding the end upward and using the clamp or clip that comes with the product, or secure Velcro closure.
- 20. Ensure the curve of the clamp follows the curve of the patient's body.
- 21. Remove gloves.
- 22. Assist the patient to a comfortable position.
- 23. Cover the patient with bed linens.
- 24. Place the bed in the lowest position.
- 25. Put on clean gloves.
- 26. Remove or discard equipment and assess patient's response to procedure.
- 27. Remove gloves and additional PPE, if used.
- 28. Perform hand hygiene.

# **Irrigating a Colostomy**

- 1. Verify the order for the irrigation.
- 2. Bring necessary equipment to the bedside stand or over bed table.
- 3. Perform hand hygiene and put on PPE, if indicated.
- 4. Identify the patient.
- 5. Close curtains around bed and close the door to the room
- 6. Explain what you are going to do and why you are going to do it to the patient. Plan where the patient will receive irrigation. Assist patient onto bedside commode or into nearby bathroom.
- 7. Warm solution in amount ordered and check temperature with a bath thermometer,
- 8. Add irrigation solution to container.
- 9. Release clamp and allow fluid to progress through tube before reclamping.
- 10. Hang container so that bottom of bag will be at patient's shoulder level when seated.
- 11. Put on nonsterile gloves.
- 12. Remove ostomy appliance and attach irrigation sleeve.
- 13. Place drainage end into toilet bowl or commode.
- 14. Lubricate end of cone with water-soluble lubricant.
- 15. Insert the cone into the stoma.
- 16. Introduce solution slowly over a period of 5 to 6 minutes.

- 17. Hold cone and tubing (or if patient is able, allow patient to hold) all the time that solution is being instilled.
- 18. Control rate of flow by closing or opening the clamp.
- 19. Hold cone in place for an additional 10 seconds after the fluid is infused
- 20. Remove cone. Patient should remain seated on toilet or bedside commode.
- 21. After majority of solution has returned, allow patient to clip (close) bottom of irrigating sleeve and continue with daily activities.
- 22. After solution has stopped flowing from stoma, put on clean gloves.
- 23. Remove irrigating sleeve and cleanse skin around stoma opening with mild soap and water. Gently pat peristomal skin dry.
- 24. Attach new appliance to stoma or stoma cover
- 25. Remove gloves.
- 26. Return the patient to a comfortable position.
- 27. Make sure the linens under the patient are dry, if appropriate. Ensure that the patient is covered.
- 28. Raise side rail. Lower bed height and adjust head of bed to a comfortable position, as necessary.
- 29. Remove gloves and additional PPE, if used.
- 30. Perform hand hygiene.

# **Administration of Parenteral Nutrition**

# **EQUIPMENT**

- a) Volume control infuser
- b) Bag of total parenteral nutrition (TPN)
- c) Bag of I.V. lipids (if not using 3-in-1 total nutrient admixture [TNA])
- d) Administration tubing with luer-lock connections
- e) 1.2- m filter
- f) Hypoallergenic tape, 1 inch
- g) Clean gloves
- h) Sterile dressing kit to include:
  - a. Alcohol swab sticks (3)
  - b. Povidone-iodine sticks (3)
  - c. Sterile gloves
  - d. Transparent dressing

# To change bag and bottle:

# **Preparatory phase**

- 1. Remove TNA from refrigerator at least 1 hour before hanging. Check date and patient's name.
- 2. Inspect fluid for cracking or creaming. Verify that TPN/TNA matches current orders.

3. Wash hands.

# **Performance phase**

- 1. Using strict sterile technique, attach I.V. tubing (with filter) to TNA bag and purge of air.
- 2. Close all clamps on new tubing. Insert tubing into volume control infuser.
- 3. If venous access device (VAD) has a clamp at proximal end, clamp tubing.
- 4. If no clamp is available on central VAD, instruct patient to perform Valsalva's maneuver (bear down and hold breath) while new tubing is connected.
- 5. Sterilely connect tubing to hub of VAD, making sure the connection is securely fastened using luer-lock connections.
- 6. Open all clamps and regulate flow through volume control infuser.

# Follow-up phase

- 1. Monitor administration hourly, assess integrity of fluid and administration system and patient tolerance and complications.
- 2. Document tubing change and rate of fluid administration presence of complications, and any treatment given.

# **Patient education**

- 1. Teach patient signs and symptoms of complications including sepsis, phlebitis, extravasation, and to report changes to nursing personnel.
- 2. If patient is to be discharged to home with TNA, begin instruction regarding proper storage, handling, and administration of TNA. Include family members as appropriate.

# To change central venous catheter dressing:

# **Preparatory phase**

- 1. Obtain equipment.
- 2. Explain procedure to patient.
- **3.** Place patient in a comfortable supine position and turn head away from site.
- **4.** Wash hands.
- **5.** Put on mask (optional).

#### Performance phase

- 1. Put on clean gloves and carefully remove old dressing.
- **2.** Inspect insertion site for complications.
- **3.** Clean insertion site with each alcohol swab beginning at insertion site and moving outward in a circular pattern.
- **4.** Repeat using each povidone-iodine swab.
- **5.** Allow to dry.
- **6.** Remove adhesive backing of transparent dressing. Center dressing over site.
- 7. Loop and tape tubing to skin using hypoallergenic tape. Do not tape over dressing.

# **Follow-up phase**

- 1. Document dressing change and observation of insertion site.
- **2.** Observe insertion site frequently for signs of complications.

# **Patient education**

- 1. Teach patient signs and symptoms of infection, phlebitis, and fluid extravasation and to report changes to nursing personnel.
- **2.** If patient is to be discharged to home with TNA, begin instruction regarding sterile dressing change. Include family members as appropriate.

# Procedure 7

# To change central venous catheter dressing

# **Preparation**

- 1. Verify the medical order or facility policy and procedure regarding site care.
- 2. Gather equipment
- 3. Provide comfortable environment with good light
- 4. Explain procedure to client.
- 5. Assess patient for presence of pain at the tube insertion site.
- 6. Provide privacy
- 7. Wash hands

#### **Procedure**

- 1. Put on clean gloves and carefully remove old dressing.
- 2. Inspect insertion site for complications.
- 3. Clean insertion site with each alcohol swab beginning at insertion site and moving outward in a circular pattern.
- 4. Repeat using each povidone-iodine swab
- 5. Allow to dry.
- 6. Remove adhesive backing of transparent dressing. Center dressing over site.
- 7. Loop and tape tubing to skin using hypoallergenic tape. Do not tape over dressing

# 8. Follow-up phase

Document dressing change and observation of insertion site.

9. Observe insertion site frequently for signs of complications

# 10. **Patient education**

Teach patient signs and symptoms of infection, phlebitis, and fluid extravasation and to report changes to nursing personnel.

- 11. If patient is to be discharged to home with TNA, begin instruction regarding sterile dressing change. Include family members as appropriate
- 12. Remove gloves
- 13. Return the patient to a comfortable position.
- 14. Make sure the linens under the patient are dry, if appropriate. Ensure that the patient is covered.
- 15. Remove gloves and additional PPE, if used.
- 16. Perform hand hygiene
- 17. Raise side rail.
- 18. Lower bed height and adjust head of bed to a comfortable position, as necessary

# **Peritoneal Lavage**

#### **PURPSE**

Peritoneal lavage is a technique of irrigation of the peritoneal cavity and examination of the irrigating fluid to evaluate the effects of trauma to the abdomen.

# **EQUIPMENT**

- 1. Peritoneal dialysis tray
- 2. Sterile solution (lactated Ringer's solution)
- 3. I.V. tubing; I.V. pole
- 4. Peritoneal dialysis catheter (multiple perforations)
- 5. Local skin anesthetic
- 6. sterile gloves

#### PROCEDURE GUIDELINES 35-5

# **PROCEDURE**

# **Preparatory Phase**

- **1.** Explain the procedure to the patient; ensure that an informed consent form has been signed.
- 2. Insert indwelling catheter into the bladder.
- **3.** Prepare the abdomen as for surgery.
- **4.** Place the patient in a supine position.
- **5.** Fill the I.V. tubing with solution using aseptic technique.

# **Performance phase (by physician)**

- 1. The skin is infiltrated 3/4 to 11/4 inches (2-3 cm) below the umbilicus in the midline with local anesthetic.
- 2. A small vertical incision is made at the chosen site.
- 3. Bleeding vessels are carefully ligated.
- 4. The peritoneum is opened under direct vision and the peritoneal catheter is inserted into the peritoneal cavity,

# OR

- 5. A needle is passed intra-abdominally, a flexible wire is passed through the needle, and a catheter is guided over the wire.
- 6. A syringe is attached to the catheter, and the peritoneal cavity is aspirated.
- 7. If no blood (or less than 10 mL) is present, the catheter is attached to the I.V. tubing; 500-1,000 mL of solution is infused into the peritoneal cavity through the I.V. tubing Attached to the dialysis catheter.
- 8. After the solution is infused, the empty I.V. bag is removed from the pole and lowered below the abdominal level (near the floor).
- 9. The peritoneal dialysis catheter is removed, and the wound is closed (unless laparotomy is necessary).
- 10. The fluid recovered from the peritoneal cavity is examined visually and is usually sent to the laboratory for cell counts and microscopic inspection of spun-down sediment.

# **Procedure 9**

# Administering Oxygen by Simple Face Mask with or without Aerosol

# A Preparation

- a) Gather equipment (Oxygen source ,Humidifier bottle with distilled water, if high humidity is desired for simple face mask , Simple face mask or plastic aerosol mask, Large-bore tubing for aerosol or small-bore tubing for simple face mask, Flowmeter, Nebulizer for aerosol , NO SMOKING signs For heated aerosol therapy,Humidifier heating element EQUIPM.)
- b) Provide comfortable environment with good light
- c) Explain procedure to client.
- d) Provide privacy
- e) Wash hands



#### **B** Procedure

- 1. Verify correct patient. Determine current vital signs, LOC, and SaO2 or ABG, if patient is at risk for CO2 retention.
- 2. Assess viscosity and volume of sputum produced.
- **3.** Show the mask to the patient and explain the procedure.
- 4. Make sure the humidifier or nebulizer is filled to the appropriate mark
- 5. Attach the large-bore tubing from the mask to the humidifier in the heating element, if used.
- 6. Set desired oxygen concentration and plug in the heating element, if used.
- 7. If the patient is tachypneic and concentration of 50% oxygen or greater is desired, two humidifiers and flowmeters should be yoked together
- 8. Adjust the flow rate until the desired mist is produced (usually 10 to 12 L/minute).
- **9.** Apply the mask to the patient's face and adjust the straps so the mask fits securely. Dry face around mask every 2 hours
- 10. Drain the tubing frequently by emptying condensate into a separate receptacle, not into the humidifier. If a heating element is used, the tubing will have to be drained more often.
- 11. If a heating element is used, check the temperature. The humidifier bottle should be warm, not hot, to touch .
- **12.** Record FiO2 and immediate patient response. Note the patient's tolerance of treatment. Notify the physician if intolerance occurs
- **13.** Assess the patient's condition and the functioning of equipment at regular intervals.
- **14.** If the patient's condition changes, assess SaO2 or ABG.
- 15. Record changes in volume and tenacity of sputum produced.

# **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments
- d) Wash hands
- e) Document findings

# **Chest Tube Insertion**

# **Preparation**

- a) Gather equipment (Tube thoracostomy tray Syringes Needles/trocar Basins/skin germicide Sponges Scalpel, sterile drape, and gloves Two large clamps Suture material Local anesthetic Chest tube (appropriate size); connector Cap, mask, gloves, gown, drapes Chest drainage system—connecting tubes and tubing, collection bottles or commercial system, vacuum pump (if required) Sterile water EQUIPMENT.)
- b) Provide comfortable environment
- c) Explain procedure to client.
- d) Provide privacy
- e) Wash hands

# **Procedure**

Preparatory phase:

- \* Assess patient for pneumothorax, hemothorax, presence of respiratory distress.
- \* Obtain a chest X-ray. Other means of localization of pleural fluid include ultrasound or fluoroscopic localization
- \*Obtain informed consent

Verify right patient and right location/procedure.

- \*Premedicate if indicated.
- \*Assemble drainage system.
- \*Reassure the patient and explain the steps of the procedure. Tell the patient to expect a needle prick and a sensation of slight pressure during infiltration anesthesia.
- \*Position the patient as for an intercostal nerve block or according to physician preference

# Performance phase:

- \* Needle or intracath technique
- \*Using universal precautions, the skin is prepared, anesthetized, and draped, using local anesthetic with a short 25G needle and using aspetic technique. A larger needle is used to infiltrate the subcutaneous tissue, intercostal muscles, and parietal pleura.

- \*An exploratory needle is inserted.
- \*The IntraCath catheter is inserted through the needle into the pleural space. The needle is removed, and the catheter is pushed several centimeters into the pleural space
- \*The catheter is taped to the skin; may be sutured to the chest wall and covered with a dressing.
- \*The catheter is attached to a connector/tubing and attached to a drainage system (underwater-seal or commercial system) and all connections taped.

# Performance phase (continued)

- \*Trocar technique for chest tube insertion
- \*Using universal precautions and aseptic technique, a trocar catheter is used for the insertion of a large-bore tube for removal of a moderate to large amount of air leak or for the evacuation of serous effusion.
- \*A small incision is made over the prepared, anesthetized site. Blunt dissection (with a hemostat) through the muscle planes in the interspace to the parietal pleura is performed \*The trocar is directed into the pleural space, the cannula is removed, and a chest tube is inserted into the pleural space and connected to a drainage system..
- \*Hemostat technique using a large-bore chest tube Using universal precautions and aseptic technique, a large bore chest tube is used to drain blood or thick effusions from the pleural space.).
- \*Using universal precautions, aseptic technique, and after skin preparation and anesthetic infiltration, an incision is made through the skin and subcutaneous tissue.
- \*A curved hemostat is inserted into the pleural cavity and the tissue is spread with the clamp.
- \*The tract is explored with an examining finger.
- \*The tube is held by the hemostat and directed through the opening up over the ribs and into the pleural cavity.
- \*The clamp is withdrawn and the chest tube is connected to a chest drainage system.
- \*The tube is sutured in place and covered with a sterile dressing.
- \*Catheter is attached to a connector/tube and to the system. All connections are taped. Follow-up phase
- \*Observe the drainage system for blood and air. Observe for fluctuation in the tube on respiration
- \*ecure a follow-up chest X-ray.

- \*Assess for bleeding, infection, leakage of air and fluid around the tube.
- \*Maintain integrity of the chest drainage system

#### **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments
- d) Wash hands
- e) Document findings

# Procedure 11 Manual Resuscitation Bag, Administering Oxygen)

# **Preparation**

a) Gather equipment (_	_O2 source
_ Resuscitation bag and	d mask

- \_ Reservoir tubing or reservoir bag
- \_ O2 connecting tubing
- \_ Nipple adapter to attach flowmeter to

connecting tubing

- \_ Flowmeter
- \_ Gloves
- \_ Face shield ).
- b) Provide comfortable environment
- c) Explain procedure to client.
- d) Provide privacy
- e) Wash hands]

# **Procedure**

# Preparatory phase

- 1. In cardiopulmonary arrest:
- a. Follow steps to establish that a cardiopulmonary arrest has occurred
- b. Use caution not to injure or increase injury to the cervical spine when opening the airway.

2. In suctioning or transport situation, assess patient's heart rate, level of consciousness (LOC), and respiratory status.

# **Performance phase**

- 1. Attach connecting tubing from flowmeter and nipple adapter to resuscitation bag
- 2. Turn flowmeter to "flush" position.
- 3. Attach reservoir tubing or reservoir bag to resuscitation bag.
- 4. Put on face shield and gloves.

# Cardiopulmonary arrest

- 1. If respirations are absent after the airway is open, insert an oropharyngeal airway and ventilate twice with slow, full breaths of 1 to 11/2 seconds each. Allow 2 seconds between breaths
- 2. Breaths will have to be quickly interposed between cardiac compressions. If the patient needs only respiratory assistance, watch for chest expansion and listen with the stethoscope to ensure adequate ventilation
- 3. A rate of approximately 10 to 12 breaths/minute is used unless the patient is being given external cardiac compressions.

Preoxygenation and suctioning

1. If hyperinflation is being used with suctioning, ventilate the patient before and after each suctioning pass (including after the last suction pass.

# **Transport**

- 1. If hyperinflation is used in transport, suction patient before disconnection for transport; monitor heart and respiratory rates and LOC during procedure.
- 2. Ventilate at rate of 12 to 15 breaths/minu

# Follow-up phase

- 1. In cardiopulmonary arrest, verify return of spontaneous pulse and respirations. Initiate further support as needed.
- 2. In suctioning or transport, return to previous support. Note patient tolerance of procedure.

# **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments

# **Administering Oxygen by Nasal Canula**

# **Preparation**

- a) Gather equipment (Oxygen source
- \_ Plastic nasal cannula with connecting tubing

(disposable)

- \_ Humidifier filled with sterile water
- \_ Flowmeter
- \_ NO SMOKING signs )
- b) Provide comfortable environment
- c) Explain procedure to client.
- d) Provide privacy
- e) Wash hands

#### **Procedure**

# Preparatory phase

- 1. Verify correct patient. Determine current vitalsigns, LOC, and most recent ABG.
- 2. Assess risk of CO2 retention with oxygen administration

# Performance phase

- 1. Post NO SMOKING signs on the patient's door and in view of the patient and visitors.
- 2. Show the nasal cannula to the patient and explain the procedure.
- 3. Make sure the humidifier is filled to the appropriate mark.
- 4. Attach the connecting tube from the nasal cannula to the humidifier outlet.
- 5. Set the flow rate at the prescribed liters per minute. Feel to determine if oxygen is flowing through the tips of the cannula.
- 6. Place the tips of the cannula in the patient's nose and adjust straps around ears for snug, comfortable fit.

# Follow-up phase

- 1. Record flow rate used and immediate patient response.
- 2. Assess the patient's condition, ABG or SaO2 and the functioning of equipment at regular intervals.
- 3. Determine patient comfort with oxygen use.

# **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments
- d) Wash hands

# **Procedure 13 Nasotracheal Suctioning**

# **Preparation**

a) Gather equipment (Assemble the following equipment or obtain a prepackaged kit:
_ Disposable suction catheter (preferably soft rubber)
_ Sterile towel
_ Sterile disposable gloves
_ Sterile water
_ Anesthetic water-soluble lubricant jelly
_ Suction source at _80 to _120 mmHg
_ Resuscitation bag with face mask.
Connect 100% O2 source with flow of 10 L/minute
_ Oximeter)
b) Provide comfortable environment
c) Explain procedure to client.
d) Provide privacy
e) Wash hands

# **Procedure**

# **Preparatory phase**

1. Verify correct patient. Auscultate breath sounds, monitor heart rate, respiratory rate, color, ease of respirations. If the patient is on monitor, continue monitoring heart

rate or arterial BP. Discontinue the suctioning and apply oxygen if heart rate decreases by 20 beats/minute or increases by 40 beats/minute, if BP increases, or if cardiac dysrhythmia is noted.

# **Performance phase**

- 1. Make sure that the suction apparatus is functional. Place suction tubing within easy reach.
- 2. Inform and instruct the patient about the procedure.
- a. At a certain interval, the patient will be requested to cough to open the lung passage so the catheter will go into the lungs and not into the stomach. The patient will also be encouraged to try not to swallow because this will also cause the catheter to enter the stomach.
- b. The postoperative patient can splint the wound to make the coughing produced by NT suctioning less painful
- 3. Place the patient in a semi-Fowler's or sitting position if possible.
- 4. Monitor oxygen saturation via oximetry and heart rate during suctioning.
- . 5. Place a sterile towel across the patient's chest. Squeeze a small amount of sterile anesthetic water-soluble lubricant jelly onto the towel.
- 6. Open the sterile pack containing curved-tipped suction catheter.
- 7. Aseptically glove both hands. Designate one hand (usually the dominant one) as "sterile" and the other hand as "contaminated."
- 8. Grasp the sterile catheter with the sterile hand.
- 9. Lubricate catheter with the anesthetic jelly and pass the catheter into the nostril and back into the pharynx.
- 10.Pass the catheter into the trachea. To do this, ask the patient to cough or say "ahh." If the patient is incapable of either, try to advance the catheter on inspiration. Asking the patient to stick out tongue, or hold tongue extended with a gauze pad, may also help to open the airway. If a protracted amount of time is needed to position the catheter in the trachea, stop and oxygenate the patient with face mask or the resuscitation bag-mask unit at intervals. If three attempts to place the catheter are unsuccessful, request assistance.
- 11. Specific positioning of catheter for deep bronchial suctioning:

- a. For left bronchial suctioning, turn the patient's head to the extreme right, chin up.
- b. For right bronchial suctioning, turn the patient's head to the extreme left, chin up.

*Note:* The value of turning the head as an aid to entering the right or left mainstem bronchi is not accepted by all clinicians.

- 12. Never apply suction until catheter is in the trachea. Once the correct position is ascertained, apply suction and gently rotate catheter while pulling it slightly upward. Do not remove catheter from the trachea.
- 13.Disconnect the catheter from the suctioning source after 5 to 10 seconds. Apply oxygen by placing a face mask over the patient's nose, mouth, and catheter, and instruct the patient to breathe deeply.
- 14. Reconnect the suction source. Repeat as necessary.
- 15. During the last suction pass, remove the catheter completely while applying suction and rotating the catheter gently. Apply oxygen when the catheter is removed.

# Follow-up phase

- 1. Dispose of disposable equipment. Auscultate breath sounds.
- 2. Measure heart rate, BP, respiratory rate, and oxygen saturation. Record the patient's tolerance of procedure, type and amount of secretions removed, and complications.
- 3. Report any patient intolerance of procedure (changes in vital signs, bleeding, laryngospasm, upper airway noise).

#### **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments
- d) Wash hands

# **Administering Nebulizer Therapy**

# **Preparation**

- a) Gather equipment
- \_ Air compressor
- \_ Connection tubing
- \_ Nebulizer
- \_ Medication and saline solutiont)
- b) Provide comfortable environment
- c) Explain procedure to client.
- d) Provide privacy
- e) Wash hands

#### **Procedure**

# **Preparatory phase**

1. Auscultate breath sounds, monitor the heart rate before and after the treatment for patients using bronchodilator drug

# **Performance phase**

- 1. Verify correct patient. Explain the procedure to the patient. This therapy depends on patient effort.
- 2. Place the patient in a comfortable sitting or a semi-Fowler's position.
- 3. Add the prescribed amount of medication and saline to the nebulizer. Connect the tubing to the compressor and set the flow at 6 to 8 L/minute.
- 4. Instruct the patient to exhale.
- 5. Tell the patient to take in a deep breath from the mouthpiece, hold breath briefly, then exhale.
- 6. Nose clips are sometimes used if the patient has difficulty breathing only through the mouth.
- 7. Observe expansion of chest to ascertain that patient is taking deep breaths.

- 8. Instruct the patient to breathe slowly and deeply until all the medication is nebulized.
- 9. On completion of the treatment, encourage the patient to cough after several deep breaths

# Follow-up phase

- 1. Record medication used and description of secretions.
- 2. Disassemble and clean nebulizer after each use. Keep this equipment in the patient's room. The equipment is changed according to facility policy.

# **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments
- d) Wash hands
- e) Document findings

# **Procedure 15**

# Administering Oxygen by Simple Face Mask with or without Aerosol

# Preparation a) Gather equipment (Oxygen source \_ Humidifier bottle with distilled water, if high humidity is desired for simple face mask \_ Simple face mask or plastic aerosol mask \_ Large-bore tubing for aerosol or small-bore tubing for simple face mask \_ Flowmeter \_ Nebulizer for aerosol \_ NO SMOKING signs For heated aerosol therapy: \_ Humidifier heating element) b) Provide comfortable environment

d) Wash hands

c) Explain procedure to client.

e) provide privacy

#### **Procedure**

# **Preparatory phase**

- 1. Verify correct patient. Determine current vital signs, LOC, and SaO2 or ABG, if patient is at risk for CO2 retention
- 2. Assess viscosity and volume of sputum produced.

# **Performance phase**

- 1. Post NO SMOKING signs on patient's door and in view of the patient and visitors
- 2. Show the mask to the patient and explain the procedure
- 3. Make sure the humidifier or nebulizer is filled to the appropriate mark
- 4. Attach the large-bore tubing from the mask to the humidifier in the heating element, if used.
- 5. Set desired oxygen concentration and plug in the heating element, if used.
- 6. If the patient is tachypneic and concentration of 50% oxygen or greater is desired, two humidifiers and flowmeters should be yoked together.
- 7. Adjust the flow rate until the desired mist is produced (usually 10 to 12 L/minute).
- 8. Apply the mask to the patient's face and adjust the straps so the mask fits securely. Dry face around mask every 2 hours.
- 9. Drain the tubing frequently by emptying condensate into a separate receptacle, not into the humidifier. If a heating element is used, the tubing will have to be drained more often
- 10.If a heating element is used, check the temperature. The humidifier bottle should be warm, not hot, to touch

# Follow-up phase

- 1. Record FiO2 and immediate patient response. Note the patient's tolerance of treatment. Notify the physician if intolerance occurs.
- 2. Assess the patient's condition and the functioning of equipment at regular intervals.
- 3. If the patient's condition changes, assess SaO2 or ABG.
- 4. Record changes in volume and tenacity of sputum produced.

# **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments

- d) Wash hands
- e) Documents Findings

# Procedure 16 Administering Oxygen by Venturi Mask (High Air Fl Oxygen Entrainment

# **System**

# **Preparation**

- a) Gather equipment (Oxygen source
- Flowmeter
- Venturi mask for correct concentration (24%, 28%,31%,

35%, 40%, 50%) or correct concentration adapter if

interchangeable color-coded adapters are used

- \_ NO SMOKING signs
- \_ If high humidity desired
- \_ Compressed air source and flowmeter
- \_ Humidifier with distilled water
- \_ Large-bore tubing)
- b) Provide comfortable environment
- c) Explain procedure to client.
- d) Wash Hands
- e) Provide privacy

# **Procedure**

# Preparatory phase

- 1. Verify correct patient. Determine current vital signs, LOC, and most recent ABG
- 2. Assess risk of CO2 retention with oxygen administration

# Performance phase

- 1. Post NO SMOKING signs on the door of the patient's room and in view of patient and visitors.
- 2. Show the Venturi mask to the patient and explain the procedure
- 3. Connect the mask by lightweight tubing to the oxygen source.
- 4. Turn on the oxygen flowmeter and adjust to the prescribed rate (usually indicated on the mask). Check to see that oxygen is flowing out the vent holes in the mask.
- 5. Place Venturi mask over the patient's nose and mouth and under the chin. Adjust elastic strap.

- 6. Check to make sure holes for air entry are not obstructed by the patient's bedding.
- 7. If aerosol nebulizer used:
- a. Connect the humidifier to a compressed air source.
- b. Attach large-bore tubing to the humidifier and connect the tubing to the fitting for high humidity at the base of the Venturi mask.

# Follow-up phase

- 1. Record flow rate used and immediate patient response. Note the patient's tolerance of treatment. Report if intolerance occurs.
- 2. If CO2 retention is present, assess ABG every 30 minutes for 1 to 2 hours or until the PaO2 is greater than 50 mm Hg and the PaCO2 is no longer increasing. Monitor pH. Report if the pH decreases below the initial assessment value.
- 3. Determine patient comfort with oxygen use.

# **Procedure Termination**

- a) Put client in comfortable position according to health status
- b) Provide patient with reassurance
- c) Return back equipments
- d) Wash hands
- e) Document findings

# **Procedure 17**

# **Teaching Self-Injection of Insulin**

# **EQUIPMENT**

- 1. Prescribed bottle of insulin
- 2. Disposable insulin syringe and needle or insulin pen injection device with insulin cartridge
- 3. Cotton ball and alcohol or alcohol wipe

#### **Procedure**

- 1. Give the patient the syringe or insulin pen device containing the prescribed dose of insulin.
- 2. Have patient select a clean area of subcutaneous tissue. Instruct the patient to hold the syringe as he would a pencil

- 3. Show the patient how to select an area of skin from the anterior thighs and form a skin fold by picking up ubcutaneous tissue between the thumb and forefinger if the patient is thin.
- 4. Select areas of upper arms, abdomen, and upper ttocks for injection after patient becomes proficient with needle insertion
- 5. Assist the patient to insert the needle with a quick thrust to the hub at a 45- to 90-degree angle to the skin surface.
- 6. Instruct the patient to release the "pinched" skin and inject the insulin with slow, consistent pressure.
- 7. Have the patient count to 5 and then withdraw the needle in the same direction it was inserted.
- 8. If insulin is in a suspension (NPH), gently shake, rotate, or roll the insulin bottle to mix well.
- 9. Do not instruct the patient to wipe off the top of the vial with alcohol; instead, make sure that the vial is stored in its original carton and is kept clean.
- 10. Inject approximately the same volume of air into the insulin vial as the volume of insulin to be withdraw
- 11. If insulin pen device is being used, follow manufacturer's instructions for dialing the dosage and changing cartridges

# To fill a syringe with long- and short-acting insulin mixture

- 12. Inject air equal to the number of units to be injected into each vial. Use the same sequence each time, for example, always NPH insulin first.
- 13. After injecting air into the second vial, keep needle in vial and withdraw prescribed amount of that type of insulin, then withdraw needle
- 14. Withdraw prescribed amount of insulin from the second vial

# **Foot Care Guidelines**

# **EQUIPMENT**

- \_ Mirror (optional)\_ Magnifying glass (optional)\_ Moisturizing lotion
- \_ Lamb's wool
- \_ Scissors and nail file

# **Procedure**

- 1. Inspect the feet carefully and daily for calluses, corns, blisters, abrasions, redness, and nail abnormalities.
- 2. Bathe the feet daily in warm (never hot) water.
- 3. Massage the feet with an absorbable agent.
- 4. Prevent moisture between the toes to prevent maceration of the skin.
- **5.** Wear well-fitting, noncompressive shoes and socks—long enough, wide enough, soft, supple, and low-heeled.
- 6. Go to a podiatrist on a regular basis if corns, calluses, and ingrown toenails are present.
- 7. Avoid heat, chemicals, and injuries to the feet.
- **8.** Inspect inside of shoes for foreign objects or areas of roughness.
- 9. Take action if an injury occurs to the foot.

# **Pre-Operative Preparation**

# Physical preparation

# **Equipments**

- Hospital gown
- IV solution and Equipment
- Skin cleansing solution
- Compression stockings
- Intermittent compression device
- Venous foot pump
- Urinary catheterization kit
- Preoperative check list
- Medications
- Enema set and prescribed solution
- Douche set and prescribed solution

#### **Procedure**

- 1. Follow Standard protocol
- 2. Identify patient using name and birthday/ID number/ask the patient to state name
- 3. Apply identification bracelet if all information is correct
- 4. Assist patient with putting hospital gown and removing personal items
- 5. Instruct/ remove the patients makeup, nail polish, hairpins and jewelry
- 6. Ensure that money and valuables have been locked up or given to a family member
- 7. Ensure that patient has followed appropriate fluid and food restrictions as per order
- 8. Verify that patient has followed request for omission or ingestion of medications as instructed
- 9. Verify that a bowel preparation (laxative, cathartic, enema) is completed if ordered
- 10. Ensure that a medical history and physical examination results are in patients record
- 11. Verify the informed consent is complete
- 12. Ensure that necessary lab investigations, ECG, X-ray etc., are completed and are on the chart
- 13. Verify the blood type and cross match are completed if ordered and that blood transfusions are available as needed
- 14. Ask if patient has an advance directive, if so place it on patient record
- 15. Assess and record vitals
- 16. Administer cathartics/enemas if ordered
- 17. Instruct the patient to void
- 18. Start an IV line as per order
- 19. Administer preoperative medications as ordered

- 20. Apply compression stockings/Intermittent compression device/Venous plexus foot pump as ordered
- 21. Cleanse and prepare the surgical site if ordered
- 22. Insert urinary catheter if ordered
- 23. Remove contact lenses, eye glasses, hair pieces and dentures
- 24. Place cap on the patients head
- 25. Assist patient onto stretcher for transport to OR
- 26. Follow completion protocol

# **Implementation For Providing Early Post Operative And Convalescent Phase Recovery**

# **Equipments**

- Post operative bed
- Stethoscope, sphygmomanometer, pulseoximeter, cardiac monitor, thermometer
- IV fluids and equipments needed
- Emesis basin
- Washcloth and towel
- Waterproof pads
- Equipment for oral hygiene
- Pillows
- Facial Tissue
- Oxygen equipment such as mask, regulator, and tubing
- Suction equipment
- Dressing supplies
- Intermittent suction
- Orthopedic appliances if needed
- Clean gloves

#### **Procedure**

1. See standard protocol

Early Recovery (Initial Post operative care)

- 2. If patient is being transported by stretcher, prepare for transfer with bed in high position, with sheet folded to side and room for a stretcher to be places beside bed easily
- 3. Assist transport staff to move patient from stretcher to bes and identify the patient
- 4. Attach any existing oxygen tubing, position IV fluids, verify IV flow rate settings in infusion pump and check for drainage tubes
- 5. Maintain airway, if patient remains sleepy or lethargic, keep head extended and support in side lying position.

- 6. Check vital signs and compare with patients baseline values in the recovery area, continue assessing vital signs as ordered
- 7. Encourage patient to cough and deep breathe to prevent atelectasis
- 8. If NG tube is present, check placement and irrigate, connect all other drainage tubes to appropriate collection device and prevent tension on tubing.
- 9. Assess patients surgical dressing for appearance, presence and character of drainage.
- 10. Unless contraindicated outline drainage along the edges with a pen and reassess for change, if no dressing is present inspect condition of wound
- 11. Palpate abdomen for bladder distension, if Foleys catheter is present check for positioning and draining freely.
- 12. If no urinary drainage system is present, explain that voiding within 8hours after surgery is expected.
- 13. Measure all sources of fluid I&O chart
- 14. Describe the purpose of equipment and frequent observations to patient and significant others
- 15. Position patient for comfort, maintaining correct body alignment and prevent tension on surgical wound site
- 16. Place call light within reach and raise side rails, instruct to call for assistance to get out of bed
- 17. Assess the level of pain and medicate as ordered

# **Continued Postoperative Care**

- 18. Assess vital signs at least every 4 hours or as ordered
- 19. Provide oral care at least every 2 hours as needed, if permitted offer ice chips
- 20. Encourage patient to turn, cough and deep breathe at least every 2 hours
- 21. Encourage incentive spirometer as ordered
- 22. Promote ambulation and activity as ordered
- 23. Progress from clear liquids to regular diet as tolerated if nausea and vomiting not occur
- 24. Include patient and family in decision making, clarify their doubts
- **25.** Provide opportunity for patients who must adjust to a change in body appearance or function to verbalize feelings

# **Convalescent Phase**

- 26. Assess patients home environment for safety, cleanliness, and availability of assistance for patient
- 27. Discuss discharge plans with patient and care giver
- 28. Keep patient and family informed of progress made toward recovery
- 29. See completion protocol

# **Deep Breathing Exercises, Coughing, Splinting**

# **Equipments**

- 1. Videotapes or computer programs are effective in giving basic information to a single patient or group of patients. Many facilities provide a television channel dedicated to patient instruction.
- 2. Booklets, brochures, and models, if available, are helpful.
- 3. Demonstrate any equipment that will be specific for the particular patient. Examples:
- a. Drains and drainage bags
- b. Monitoring equipment
- c. Side rails
- d. Incentive spirometer
- e. Pillow/Blankets

# Coughing, Deep breathing and Splinting

Coughing promotes the removal of chest secretions.

- 1. Assist the patient to high fowlers position in bed with knees flexed or sitting on side of bed or chair in upright position
- 2. Instruct patient to lightly place palms of hands across from ewach other along the lower border of the rib cage or upper abdomen
- 3. Have patient take slow, deep breaths inhaling through nose. Explain that patient will feel normal downward movement of diaphragm during inspiration. Demonstrate as needed
- 4. Have patient avoid using chest and shoulder muscles while inhaling
- 5. Have patient take slow, deep breaths hold for count of 3 seconds, and slowly exhale through mouth as if blowing out a candle
- 6. Have patient repeat breathing exercise 3-5 times
- 7. Have patient take two slow, deep breaths inhaling through nose and exhaling through pursed lips
- 8. Have patient inhale deeply a third time and hold breath to count 3, cough fully for two to three consecutive coughs without inhaling between coughs
- 9. Caution patient against just clearing throat
- 10. Have patient practice several times. Instruct patient to perform turning, coughing and deep breathing every 2 hours.

# Teach Incentive spirometer

- 1. Position in sitting or reclining position
- 2. Instruct patient to exhale completely and place mouthpiece so lips completely cover it and inhale slowly, maintaining constant flow through unit
- 3. After maximum inspiration, patient should hold breath for 2 to 3 seconds and exhale slowly
- 4. Set marker on spirometer at maximum inspiration point to establish postoperative target
- 5. Instruct patient to breathe normally for a short period and repeat process for total of 10 times every hour while awake

#### **SPLINTING**

- 1. Explain purpose of splinting
- 2. Place pillow or blanket over site of discomfort and then assist patient to place hands firmly over area
- 3. Have patient hold area firmly while coughing, deep breathing and turning

# LEG EXERCISES

Leg exercises facilitate venous return from the lower extremities and reduce the risk of circulatory complications like venous thrombus

# Procedure

- 1. Instruct and encourage patient that leg exercises to be performed every 1 to 2 hours while awake: ankle rotation, dorsiflexion and plantar flexion, leg extension and flexion, straight leg raises
- 2. Position patient supine
- 3. Instruct patient to rotate each ankle in a complete circle and draw imaginary circles with the big toe 5 times
- 4. Alternate dorsiflexion and plantar flexion while instructing patient to feel calf muscles tighten and relax, repeat 5 times
- 5. Instruct patient to alternate flexing and extending knees one leg at a time, repeat 5 times
- 6. Instruct patient to alternate raising legs straight up from bed surface. Leg should be kept straight, repeat 5 times
- 7. Instruct patient to perform these four leg exercises 10 to 12 times every 1 to 2 hours while awake.

# Obtaining an Electrocardiogram (ECG)

Student's Name:	
ID #:	Date :

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the order for an ECG on the patient's medical record			
2.	Gather equipment (gloves, exam light, penlight, magnifying glass, centimeter ruler.)			
3.	Provide comfortable environment with good light			
4.	Explain procedure to client.			
5.	Provide privacy			
6.	Wash hands			
	Procedure			
7.	Place the ECG machine close to the patient's bed, and plug the power cord into the wall outlet			
8.	If the bed is adjustable, raise it to a comfortable working height, usually elbow height of the caregiver			
9.	Have the patient lie supine in the center of the bed with the arms at the sides.			
10.	Raise the head of the bed if necessary to promote comfort			
11.	Expose the patient's arms and legs, and drape appropriately.			
12.	Encourage the patient to relax the arms and legs.			
13.	Make sure the feet do not touch the bed's footboard			
14.	Select flat, fleshy areas on which to place the electrodes. Avoid muscular and bony areas. If the patient has an amputated limb, choose a site on the stump.			

15. 16.	If an area is excessively hairy, clip the hair. Do not shave hair. Clean excess oil or other substances from the skin with soap and water and dry it completely Apply the limb lead electrodes.		
17.	Connect the limb lead wires to the electrodes. Make sure the metal parts of the electrodes are clean and bright.		
18.	Expose the patient's chest		
19.	Apply the precordial lead electrodes.: • V1: Fourth intercostal space at right sternal border • V2: Fourth intercostal space at left sternal border • V3: Halfway between V2 and V4 • V4: Fifth intercostal space at the left midclavicular line • V5: Fifth intercostal space at anterior axillary line (halfway between V4 and V6) • V6: Fifth intercostal space at midaxillary line, level with V4		
20.	Connect the precordial lead wires to the electrodes. Make sure the metal parts of the electrodes are clean and bright.		
21.	After the application of all the leads, make sure the paperspeed selector is set to the standard 25 m/second and that the machine is set to full voltage.		
22.	If necessary, enter the appropriate patient identification data into the machine.		
23.	Ask the patient to relax and breathe normally. Instruct the patient to lie still and not to talk while you record the ECG		
24.	Press the AUTO button.		
25.	When the machine finishes recording the 12-lead ECG, remove the electrodes and clean the patient's skin		

26.	Return the patient to a comfortable position. Lower bed height and adjust the head of bed to a comfortable position.		
27.	Clean ECG machine per facility policy. If not done electronically from data entered into the machine, label the ECG with the patient's name, date of birth, location, date and time of recording, and other relevant information, such as symptoms that occurred during the recording		
28.	Remove additional PPE, if used		
29.	Perform hand hygiene		

# **Applying a Cardiac Monitor**

Student's Name:	<u> </u>
	<b></b>
ID #:	Date:

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the order for an ECG on the patient's medical record			
2.	Gather equipment (gloves, exam light, penlight, magnifying glass, centimeter ruler.)			
3.	Provide comfortable environment with good light			
4.	Explain procedure to client.			
5.	Provide privacy			
6.	Wash hands			
	Procedure			
1.	Connect an electrode to each of the lead wires, carefully checking that each lead wire is in its correct outlet.			
2.	If the bed is adjustable, raise it to a comfortable working height, usually elbow height of the caregiver			
3.	Expose the patient's chest and determine electrode positions, (If necessary, clip the hair from an area about 10 cm in diameter around each electrode site).			
4.	Remove the backing from the pre gelled electrode			
5.	Apply the electrode to the site and press firmly to ensure a tight seal. Repeat with the remaining electrodes to complete the three-lead or five lead system.  When all the electrodes are in place, connect the appropriate lead wire to each electrode. Check waveform for clarity, position, and size.			

6.	Set the upper and lower limits of the heart rate alarm, based on the patient's condition or unit policy		
7.	For telemetry, place the transmitter in the pouch in the hospital gown.		
8.	To obtain a rhythm strip, press the RECORD key either at the bedside for monitoring or at the central station for telemetry		
9.	Label the strip with the patient's name and room number, date, time, and rhythm identification		
10.	Place the rhythm strip in the appropriate location in the patient's chart		
11.	Return the patient to a comfortable position.		
12.	Lower bed height and adjust the head of bed to a comfortable position.		
13.	Remove additional PPE, if used		
14.	Perform hand hygiene.		

## Procedure 3 Caring for a Gastrostomy Tube

Student's Name:	
ID #:	Date :

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the medical order or facility policy and procedure regarding site care.			
2.	Gather equipment			
3.	Provide comfortable environment with good light			
4.	Explain procedure to client.			
5.	Assess patient for presence of pain at the tube insertion site.			
6.	Provide privacy			
7.	Wash hands			
	Procedure			
1.	Pull the patient's bedside curtain.			
2.	Raise bed to a comfortable working position, usually elbow height of the caregiver			
3.	Put on gloves.			

15. New and still has sutures holding it in place, dip cotton-tipped applicator into sterile saline solution and gently clean around the insertion site, removing any crust or drainage.  Avoid adjusting or lifting the external disk for the first few days after placement except to clean the area  16. gastric tube insertion site has healed
and the sutures are removed, wet a washcloth and apply a small amount of soap onto washcloth. Gently cleanse around the insertion, removing any crust or drainage. Rinse site, removing all soap.
5. Dry skin around insertion site dry.
6. If the sutures have been removed, gently rotate the guard or external bumper 90 degrees at least once a day. Assess that the guard or external bumper is not digging into the surrounding skin. Avoid placing any tension on the feeding tube.
7. Leave the site open to air unless there is drainage. If drainage is present, place one thickness of precut gauze pad or drain sponge under the external bumper and change as needed to keep the area dry.  Use a skin protectant or substance such as zinc oxide to prevent skin breakdown.
8. Remove gloves.
9. Lower the bed and assist the patient to a position of comfort as needed.
10. Remove additional PPE, if used.
11. Perform hand hygiene.

# Procedure 4 Changing and Emptying an Ostomy Appliance

Student's Name:	<u>_</u>
ID#:	Date :

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the medical order or facility policy and procedure regarding site care.			
2.	Gather equipment			
3.	Provide comfortable environment with good light			
4.	Explain procedure to client.			
5.	Assess patient for presence of pain at the tube insertion site.			
6.	Provide privacy			
7.	Wash hands			
	Procedure			
1.	Pull the patient's bedside curtain.			
2.	Raise bed to a comfortable working position, usually elbow height of the caregiver			
3.	Put on gloves.			
4.	Remove clamp and fold end of pouch upward like a cuff			
5.	Empty contents into bedpan, toilet, or measuring device.			
6.	Wipe the lower 2 inches of the appliance or pouch with toilet tissue			
7.	Un cuff edge of appliance or pouch and apply clip or clamp, or secure			
8.	Remove gloves.			

9.	Assist patient to a comfortable position.		
	If appliance is not to be changed,		
10.	Remove additional PPE,		
11.	Perform hand hygiene		
12.	Changing an Appliance Place a disposable pad on the work surface.		
13.	Set up the wash basin with warm water and the rest of the supplies		
14.	Place a trash bag within reach.		
15.	Put on clean gloves.		
16.	Place waterproof pad under the patient at the stoma site.		
17.	Empty the appliance as described previously.		
18.	Gently remove pouch faceplate from skin by pushing skin from appliance rather than pulling appliance from skin		
19.	Start at the top of the appliance, while keeping the abdominal skin taut.		
20.	Apply a silicone-based adhesive remover by spraying or wiping with the remover wipe.		
21.	Place the appliance in the trash bag, if disposable. If reusable, set aside to wash in lukewarm soap and water and allow to air dry after the new appliance is in place.		
22.	Use toilet tissue to remove any excess stool from stoma.		
23.	Cover stoma with gauze pad.		

24.	Clean skin around stoma with mild soap and water or a cleansing agent and a washcloth.  Remove all old adhesive from skin; use an adhesive remover, as necessary. Do not apply lotion to peristomal area.		
26.	Gently pat area dry. Make sure skin around stoma is thoroughly dry. Assess stoma and condition of surrounding skin.		
27.	Apply skin protectant to a 2-inch (5 cm) radius around the stoma, and allow it to dry completely, which takes about 30 seconds		
28.	Lift the gauze squares for a moment and measure the stoma opening, using the measurement guide. Replace the gauze. Trace the same-size opening on the back center of the appliance. Cut the opening 1/8 inch larger than the stoma size.		
29.	Remove the backing from the appliance. Quickly remove the gauze squares and ease the appliance over the stoma. Gently press onto the skin while smoothing over the surface. Apply gentle pressure to appliance for 5 minutes.		
30.	Close bottom of appliance or pouch by folding the end upward and using the clamp or clip that comes with the product, or secure Velcro closure.		
31.	Ensure the curve of the clamp follows the curve of the patient's body.		

32.	Lower the bed and assist the patient to a position of comfort as needed.		
33.	Remove additional PPE, if used.		
34.	Perform hand hygiene.		

## **Irrigating a Colostomy**

Student's Name:	<u></u>
ID #:	Date:

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the medical order or facility policy and procedure regarding site care.			
2.	Gather equipment			
3.	Provide comfortable environment with good light			
4.	Explain procedure to client.			
5.	Assess patient for presence of pain at the tube insertion site.			
6.	Provide privacy			
7.	Wash hands			
	Procedure			
1.	Assist patient onto bedside commode or into nearby bathroom.			
2.	Warm solution in amount ordered and check temperature with a bath thermometer,			
3.	Add irrigation solution to container			
4.	Release clamp and allow fluid to progress through tube before reclamping.			
5.	Hang container so that bottom of bag will be at patient's shoulder level when seated			
6.	Put on nonsterile gloves.			
7.	Remove ostomy appliance and attach irrigation sleeve.			
8.	Place drainage end into toilet bowl or commode.			

9.	Lubricate end of cone with water-soluble lubricant		
10.	Insert the cone into the stoma.		
11.	Introduce solution slowly over a period of 5 to 6 minutes.		
12.	Hold cone and tubing (or if patient is able, allow patient to hold) all the time that solution is being instilled		
13.	14. Control rate of flow by closing or opening the clamp.		
15.	Hold cone in place for an additional 10 seconds after the fluid is infused		
16.	Remove cone. Patient should remain seated on toilet or bedside commode.		
17.	After majority of solution has returned, allow patient to clip (close) bottom of irrigating sleeve and continue with daily activities.		
18.	19. After solution has stopped flowing from stoma, put on clean gloves.		
20.	Remove irrigating sleeve and cleanse skin around stoma opening with mild soap and water. Gently pat peristomal skin dry.		
21.	Attach new appliance to stoma or stoma cover		
22.	Remove gloves		
23.	Return the patient to a comfortable position.		
24.	Make sure the linens under the patient are dry, if appropriate. Ensure that the patient is covered.		
25.	Raise side rail. Lower bed height and adjust head of bed to a comfortable position, as necessary.		

26.	Remove gloves and additional PPE, if used.		
27.	Perform hand hygiene		

#### **Administration of Parenteral Nutrition**

Student's Name:	
ID #:	Date :

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the medical order or facility policy and procedure regarding site care.			
2.	Gather equipment  i) Volume control infuser  j) Bag of total parenteral nutrition (TPN)  k) Bag of I.V. lipids (if not using 3- in-1 total nutrient admixture [TNA])  l) Administration tubing with luer- lock connections  m) 1.2m filter  n) Hypoallergenic tape, 1 inch o) Clean gloves p) Sterile dressing kit to include:  a. Alcohol swab sticks (3) b. Povidone-iodine sticks (3) c. Sterile gloves d. Transparent dressing			
3.	Provide comfortable environment with good light			
4.	Explain procedure to client.			
5.	Assess patient for presence of pain at the tube insertion site.			
6.	Provide privacy			
7.	Wash hands			
	Procedure			

<b>1.</b> 2.	To change bag and bottle:  Preparatory phase  4. Remove TNA from refrigerator at least 1 hour before hanging. Check date and patient's name.  3. Inspect fluid for cracking or		
	creaming. Verify that TPN/TNA matches current orders		
4.	Wash hands		
5.	Performance phase Using strict sterile technique, attach I.V. tubing (with filter) to TNA bag and purge of air.		
6.	Close all clamps on new tubing. Insert tubing into volume control infuser.		
7.	If venous access device (VAD) has a clamp at proximal end, clamp tubing.		
8.	If no clamp is available on central VAD, instruct patient to perform Valsalva's maneuver (bear down and hold breath) while new tubing is connected.		
9.	Sterilely connect tubing to hub of VAD, making sure the connection is securely fastened using luer-lock connections.		
10.	Open all clamps and regulate flow through volume control infuser		
11.	Follow-up phase Monitor administration hourly, assess integrity of fluid and administration system and patient tolerance and complications		

13.	Document tubing change and rate of fluid administration; presence of complications, and any treatment given  Patient education Teach patient signs and symptoms of complications; including sepsis, phlebitis, extravasation, and to report changes to nursing personnel		
14.	If patient is to be discharged to home with TNA, begin instruction regarding proper storage, handling, and administration of TNA. Include family members as appropriate		
15.	Remove gloves		
16.	Return the patient to a comfortable position.		
17.	Make sure the linens under the patient are dry, if appropriate. Ensure that the patient is covered.		
18.	Raise side rail. Lower bed height and adjust head of bed to a comfortable position, as necessary		
19.	Remove gloves and additional PPE, if used.		
20.	Perform hand hygiene		

## To change central venous catheter dressing

Student's Name:	_
ID#:	Date :

No	Procedure Steps	Yes	No	Comments
	Preparation			
8.	Verify the medical order or facility			
	policy and procedure regarding site care.			
9.	Gather equipment			
10.	Provide comfortable environment with			
1.1	good light			
11.	Explain procedure to client.			
12.	Assess patient for presence of pain at the			
	tube insertion site.			
13.	Provide privacy			
14.	Wash hands			
	Procedure			
	Put on clean gloves and carefully remove			
19.	old dressing.			
20.	Inspect insertion site for complications.			
21.	Clean insertion site with each alcohol			
	swab beginning at insertion site and			
	moving outward in a circular pattern.			
22.	Repeat using each povidone-iodine swab			
23.	Allow to dry.			
24.	Remove adhesive backing of transparent			
	dressing. Center dressing over site.			
25.	Loop and tape tubing to skin using			
	hypoallergenic tape. Do not tape over			
	dressing			

26.	Follow-up phase		
	Document dressing change and		
	observation of insertion site.		
27.	Observe insertion site frequently for		
	signs of complications		
28.	Patient education		
	Teach patient signs and symptoms of		
	infection, phlebitis, and fluid		
	extravasation and to report changes to		
	nursing personnel.		
29.	If patient is to be discharged to home		
	with TNA, begin instruction regarding		
	sterile dressing change. Include family		
	members as appropriate		
30.	Remove gloves		
31.	Return the patient to a comfortable		
	position.		
32.	Make sure the linens under the patient		
	are dry, if appropriate. Ensure that the		
	patient is covered.		
33.	Remove gloves and additional PPE, if		
	used.		
34.	Perform hand hygiene		
35.	Raise side rail.		
36.	Lower bed height and adjust head of bed		
	to a comfortable position, as necessary		

## **Peritoneal Lavage**

Student's Name:	
ID#:	Date :

No	Procedure Steps	Yes	No	Comments
	Preparation			
1.	Verify the medical order or facility			
	policy and procedure regarding site care.			
2.	Gather equipment			
	7. Peritoneal dialysis tray			
	8. Sterile solution (lactated Ringer's			
	solution)			
	9. I.V. tubing; I.V. pole			
	10. Peritoneal dialysis catheter			
	(multiple perforations)			
	11. Local skin anesthetic			
	12. sterile gloves			
3.	Provide comfortable environment with			
	good light			
4.	Explain procedure to client.			
5.	Assess patient for presence of pain at the			
	tube insertion site.			
6.	Provide privacy			
7.	Wash hands			
	Procedure			
	Preparatory Phase			
1.	Explain the procedure to the patient;			
1.	ensure that an informed consent form has			
	been signed.			
2.	Insert indwelling catheter into the			
2	bladder.		<b>  </b>	
3.	Prepare the abdomen as for surgery.			

4.	Place the patient in a supine position.			
5.	Fill the I.V. tubing with solution using aseptic technique			
6.	Performance phase (by physician)			
	The skin is infiltrated 3/4 to 11/4 inches			
	(2-3 cm) below the umbilicus in the			
	midline with local anesthetic.			
7.	A small vertical incision is made at the			
	chosen site.			
8.	Bleeding vessels are carefully ligated.			
9.	The peritoneum is opened under direct			
	vision and the peritoneal catheter is			
	inserted into the peritoneal cavity,			
	OR			
10.	A needle is passed intra-abdominally, a			
	flexible wire is passed through the			
	needle, and a catheter is guided over the			
	wire.			
11.	A syringe is attached to the catheter, and			
	the peritoneal cavity is aspirated.			
12.	If no blood (or less than 10 mL) is			
	present, the catheter is attached to the			
	I.V. tubing; 500-1,000 mL of solution is			
	infused into the peritoneal cavity through			
	Attached to the dialysis catheter			
13.	After the solution is infused, the empty			
	I.V. bag is removed from the pole and			
	lowered below the abdominal level (near			
	the floor).			
14.	The peritoneal dialysis catheter is			
	removed, and the wound is closed			
	(unless laparotomy is necessary			
		I	ii	

15.	The fluid recovered from the peritoneal		
	cavity is examined visually and is usually		
	sent to the laboratory for cell counts and		
	microscopic inspection of spun-down		
	sediment.		
16.	Remove gloves and additional PPE, if		
	used.		
17.	Perform hand hygiene		
18.	Documentation		

## Administering Oxygen by Simple Face Mask with or without Aerosol

running oxygen by b	imple race wask with or without ricro	, DU
Student's Name:	_	
ID #:	<b>Date :</b>	

No	Procedure Steps	Yes	No	CLO
A	Preparation			
	a) Gather equipment (Oxygen			
	source ,Humidifier bottle with distilled			
	water, if high humidity is desired for			
	simple face mask, Simple face mask or			
	plastic aerosol mask, Large-bore tubing			
	for aerosol or small-bore tubing for			
	simple face mask, Flowmeter, Nebulizer for aerosol, NO SMOKING signs For			
	heated aerosol therapy, Humidifier			
	heating element EQUIPM.)			
	b) Provide comfortable environment with			
	good light			
	c) Explain procedure to client.			
	d) Provide privacy			
	e) Wash hands			
В	Procedure			
	Verify correct patient. Determine >			
	current vital signs, LOC, and			
	SaO2 or ABG, if patient is at risk			
	for CO2 retention.			
	Assess viscosity and volume of sputum			
	produced.			
	Show the mask to the patient and explain			
	the procedure.			
	Make sure the humidifier or nebulizer is			
	filled to the appropriate mark			
	Attach the large-bore tubing from the			
	mask to the humidifier in the heating			
	element, if used.			
	Set desired oxygen concentration and plug in the heating element, if used.			
	plug in the heating element, it used.			
I		1		

	If the patient is tachypneic and concentration of 50% oxygen or greater is desired, two humidifiers and flowmeters			
	should be yoked together  Adjust the flow rate until the desired mist			
	is produced (usually 10 to 12 L/minute).			
	Apply the mask to the patient's face and adjust the straps so the mask fits securely. Dry face around mask every 2 hours			
No	Procedure Steps	Yes	No	Comments
	Drain the tubing frequently by emptying condensate into a separate receptacle, not into the humidifier. If a heating element is used, the tubing will have to be drained more often.			
	If a heating element is used, check the temperature. The humidifier bottle should be warm, not hot, to touch.			
	Record FiO2 and immediate patient response. Note the patient's tolerance of treatment. Notify the physician if intolerance occurs			
	Assess the patient's condition and the functioning of equipment at regular intervals.			
	If the patient's condition changes, assess SaO2 or ABG.			
	Record changes in volume and tenacity of sputum produced.			
	Procedure Termination			
	a) Put client in comfortable position according to health status			
C	b) Provide patient with reassurance			
	c) Return back equipments			
	d) Wash hands			
	e) Document findings			

#### **Chest Tube Insertion**

Student's Name:	
ID#:	<b>Date :</b>

		Perfo	rmed	CLO
No	Procedure Steps	Yes	No	
A	Preparation			
	a) Gather equipment (Tube thoracostomy tray			
	Syringes Needles/trocar Basins/skin germicide			
	Sponges Scalpel, sterile drape, and gloves Two			
	large clamps Suture material Local anesthetic			
	Chest tube (appropriate size); connector Cap,			
	mask, gloves, gown, drapes Chest drainage			
	system–connecting tubes and tubing, collection			
	bottles or commercial system, vacuum pump			
	(if required) Sterile water EQUIPMENT.)			
	b) Provide comfortable environment			
	c) Explain procedure to client.			
	d) Provide privacy			
	e) Wash hands			
	Procedure			
В	Preparatory phase			
	. Assess patient for pneumothorax,			
	hemothorax, presence of respiratory distress.			
	. Obtain a chest X-ray. Other means of			
	localization of pleural fluid include ultrasound			
	or fluoroscopic localization			
	Obtain informed consent			
	Verify right patient and right			
	location/procedure.			
	. Premedicate if indicated.			
	Assemble drainage system.			
	Reassure the patient and explain the steps of			
	the procedure. Tell the patient to expect a			
	needle prick and a sensation of slight pressure			
	during infiltration anesthesia.			
	Position the patient as for an intercostal nerve			
	block or according to physician preference			
C	Performance phase			
	Needle or intracath technique			
	Using universal precautions, the skin is			
	prepared, anesthetized, and draped, using local			
	anesthetic with a short 25G needle and using			

	aspetic technique. A larger needle is used to infiltrate the subcutaneous tissue, intercostal		
	muscles, and parietal pleura.		
	An exploratory needle is inserted.  The IntroCoth cotheter is inserted through the		
	The IntraCath catheter is inserted through the needle into the pleural space. The needle is removed, and the catheter is pushed several centimeters into the pleural space		
	The catheter is taped to the skin; may be sutured to the chest wall and covered with a dressing.		
	The catheter is attached to a connector/tubing and attached to a drainage system (underwater-seal or commercial system) and all connections taped.		
D	Performance phase (continued) Trocar technique for chest tube insertion		
	Using universal precautions and aseptic technique, a trocar catheter is used for the insertion of a large-bore tube for removal of a moderate to large amount of air leak or for the evacuation of serous effusion.		
	A small incision is made over the prepared, anesthetized site. Blunt dissection (with a hemostat) through the muscle planes in the interspace to the parietal pleura is performed		
	The trocar is directed into the pleural space, the cannula is removed, and a chest tube is inserted into the pleural space and connected to a drainage system		
	Hemostat technique using a large-bore chest tube Using universal precautions and aseptic technique, a large bore chest tube is used to drain blood or thick effusions from the pleural space.).		
	Using universal precautions, aseptic technique, and after skin preparation and anesthetic infiltration, an incision is made through the skin and subcutaneous tissue.		
	A curved hemostat is inserted into the pleural cavity and the tissue is spread with the clamp.		
	The tract is explored with an examining finger.		
	The tube is held by the hemostat and directed through the opening up over the ribs and into the pleural cavity.		
	The clamp is withdrawn and the chest tube is connected to a chest drainage system.		

	The tube is sutured in place and covered with a sterile dressing.		
	Catheter is attached to a connector/tube and to the system. All connections are taped.		
E	Follow-up phase		
	Observe the drainage system for blood and air. Observe for fluctuation in the tube on respiration		
	ecure a follow-up chest X-ray.		
	Assess for bleeding, infection, leakage of air and fluid around the tube.		
	Maintain integrity of the chest drainage system		
F	Procedure Termination		
	a) Put client in comfortable position according to health status		
	b) Provide patient with reassurance		
	c) Return back equipments		
	d) Wash hands		
	e) Document findings		

## **Manual Resuscitation Bag, Administering Oxygen)**

Student's Name:	
ID #:	<b>Date :</b>

No	Procedure Steps	Yes	No	CLO
A	Preparation	165	110	CLU
A	a) Gather equipment (_ O2 source			
	_ Resuscitation bag and mask			
	_ Reservoir tubing or reservoir bag			
	_ O2 connecting tubing			
	_ Nipple adapter to attach flowmeter to			
	connecting tubing			
	Flowmeter			
	_ Gloves			
	_ Face shield ).			
	b) Provide comfortable environment			
	c) Explain procedure to client.			
	d) Provide privacy			
	e) Wash hands			
В	Procedure			
	Preparatory phase			
	1. In cardiopulmonary arrest:			
	a. Follow steps to establish that a			
	cardiopulmonary			
	arrest has occurred			
	b. Use caution not to injure or increase injury			
	to the cervical			
	spine when opening the airway.			
	2. In suctioning or transport situation, assess			
	patient's heart			
	rate, level of consciousness (LOC), and			
	respiratory status.			
	Performance phase			
	1. Attach connecting tubing from flowmeter			
	and nipple			
	adapter to resuscitation bag	<u> </u>		
	2. Turn flowmeter to "flush" position.			
	3. Attach reservoir tubing or reservoir bag to			
	resuscitation			
-	bag.			
	4. Put on face shield and gloves.			
	Cardiopulmonary arrest			

	1. If magninations are absent after the aircray is		
	1. If respirations are absent after the airway is		
	open, insert		
	an oropharyngeal airway and ventilate twice		
	with slow,		
	full breaths of 1 to 11/2 seconds each. Allow 2		
	seconds		
	between breaths		
	2. Breaths will have to be quickly interposed		
	between cardiac		
	compressions. If the patient needs only		
	respiratory		
	assistance, watch for chest expansion and		
	listen with the		
	stethoscope to ensure adequate ventilation		
	3. A rate of approximately 10 to 12		
	breaths/minute is used		
	unless the patient is being given external		
	cardiac		
	compressions.		
	Preoxygenation and suctioning		
	1. If hyperinflation is being used with		
	suctioning, ventilate		
	the patient before and after each suctioning		
	pass (including		
	after the last suction pass.		
	Transport		
	1. If hyperinflation is used in transport, suction		
	patient		
	before disconnection for transport; monitor		
	heart and respiratory		
	rates and LOC during procedure.		
	2. Ventilate at rate of 12 to 15 breaths/minu		
	Follow-up phase		
	1. In cardiopulmonary arrest, verify return of		
	spontaneous		
	pulse and respirations. Initiate further support		
	as needed.		
	2. In suctioning or transport, return to previous		
	support.		
	Note patient tolerance of procedure.		
С	Procedure Termination		
	a) Put client in comfortable position according		
	to health status		
	b) Provide patient with reassurance		
	c) Return back equipments		
	d) Wash hands		
	a) wash hands		

## **Administering Oxygen by Nasal Canula**

Student's Name:	
ID#:	<b>Date :</b>

No	Procedure Steps	Yes	No	CLO
A	Preparation			
	a) Gather equipment (Oxygen source			
	_ Plastic nasal cannula with connecting tubing			
	(disposable)			
	_ Humidifier filled with sterile water			
	_ Flowmeter			
	_ NO SMOKING signs )			
	b) Provide comfortable environment			
	c) Explain procedure to client.			
	d) Provide privacy			
	e) Wash hands			
В	Procedure			
	Preparatory phase			
	1. Verify correct patient. Determine current vital			
	signs, LOC,			
	and most recent ABG.			
	2. Assess risk of CO2 retention with oxygen			
	administration			
	Performance phase			
	1. Post NO SMOKING signs on the patient's			
	door and in view			
	of the patient and visitors.			
	2. Show the nasal cannula to the patient and			
	explain the			
	procedure.  3. Make sure the humidifier is filled to the			
	appropriate mark.			
	4. Attach the connecting tube from the nasal	<u> </u>	<u> </u>	
	cannula to the			
	humidifier outlet.			
	5. Set the flow rate at the prescribed liters per	1		
	minute. Feel			
	to determine if oxygen is flowing through the tips			
	of the			
	cannula.			
	6. Place the tips of the cannula in the patient's			
	nose and			

	adjust straps around ears for snug, comfortable			
	fit.			
	Follow-up phase			
	1. Record flow rate used and immediate patient			
	response.			
	2. Assess the patient's condition, ABG or SaO2			
	and the			
	functioning of equipment at regular intervals.			
	3. Determine patient comfort with oxygen use.			
C	Procedure Termination			
	a) Put client in comfortable position according to			
	health status			
	b) Provide patient with reassurance	·	·	
	c) Return back equipments			
	d) Wash hands			

## **Nasotracheal Suctioning**

Student's Name:	
ID#:	Date :

No	Procedure Steps	Yes	No	CLO
A	Preparation			
	a) Gather equipment (Assemble the following			
	equipment or			
	obtain a prepackaged kit:			
	_ Disposable suction catheter (preferably soft			
	rubber)			
	_ Sterile towel			
	_ Sterile disposable gloves			
	_ Sterile water			
	_ Anesthetic water-soluble lubricant jelly			
	_ Suction source at _80 to _120 mmHg			
	_ Resuscitation bag with face mask.			
	Connect 100% O2 source with flow of 10			
	L/minute			
	_ Oximeter)			
	b) Provide comfortable environment			
	c) Explain procedure to client.			
	d) Provide privacy			
	e) Wash hands			
В	Procedure			
	Preparatory phase			
	1. Verify correct patient. Auscultate breath			
	sounds, monitor heart rate, respiratory rate, color,			
	ease of respirations. If the patient is on monitor,			
	continue monitoring heart			
	rate or arterial BP. Discontinue the suctioning and			
	apply oxygen if heart rate decreases by 20			
	beats/minute or increases by 40 beats/minute, if			
	BP increases, or if cardiac dysrhythmia is noted.			
	Performance phase			
	1. Make sure that the suction apparatus is			
	functional. Place suction tubing within easy			
	reach.			
	2. Inform and instruct the patient about the			
	procedure.			
	a. At a certain interval, the patient will be			
	requested to cough to open the lung passage so			
	the catheter will go into the lungs and not into the			
	stomach. The patient will also be encouraged to			
	try not to swallow because this will also cause the			
	catheter to enter the stomach.			

b. The postoperative patient can splint the wound to make the coughing produced by NT suctioning less painful	
3. Place the patient in a semi-Fowler's or sitting position if possible.	
4. Monitor oxygen saturation via oximetry and heart rate during suctioning.	
. 5. Place a sterile towel across the patient's chest.  Squeeze a small amount of sterile anesthetic water-soluble lubricant jelly onto the towel.	
6. Open the sterile pack containing curved-tipped suction catheter.	
7. Aseptically glove both hands. Designate one hand (usually the dominant one) as "sterile" and the other hand as "contaminated."	
8. Grasp the sterile catheter with the sterile hand.	
9. Lubricate catheter with the anesthetic jelly and pass the catheter into the nostril and back into the pharynx.	
10.Pass the catheter into the trachea. To do this, ask the patient to cough or say "ahh." If the patient is incapable of either, try to advance the catheter on inspiration.  Asking the patient to stick out tongue, or hold tongue extended with a gauze pad, may also help to open the airway. If a protracted amount of time is needed to position the catheter in the trachea, stop and oxygenate the patient with face mask or the resuscitation bag-mask unit at intervals. If three attempts to place the catheter are unsuccessful, request assistance.  11.Specific positioning of catheter for deep bronchial suctioning:  a. For left bronchial suctioning, turn the patient's head to the extreme right, chin up.	
b. For right bronchial suctioning, turn the patient's head to the extreme left, chin up. <i>Note:</i> The value of turning the head as an aid to entering the right or left mainstem bronchi is not accepted by all clinicians.  12.Never apply suction until catheter is in the	
trachea. Once the correct position is ascertained, apply suction and gently rotate catheter while pulling it slightly upward. Do not remove catheter from the trachea.	
13.Disconnect the catheter from the suctioning source after 5 to 10 seconds. Apply oxygen by placing a face mask over the patient's nose,	

	mouth, and catheter, and instruct the patient to		
	breathe deeply.		
	14.Reconnect the suction source. Repeat as		
	necessary.		
	15.During the last suction pass, remove the		
	catheter completely while applying suction and		
	rotating the catheter gently. Apply oxygen when		
	the catheter is removed.		
	Follow-up phase		
	1. Dispose of disposable equipment. Auscultate		
	breath sounds.		
	2. Measure heart rate, BP, respiratory rate, and		
	oxygen saturation. Record the patient's tolerance		
	of procedure, type and amount of secretions		
	removed, and complications.		
	3. Report any patient intolerance of procedure		
	(changes in vital signs, bleeding, laryngospasm,		
	upper airway noise).		
C	Procedure Termination		
	a) Put client in comfortable position according to		
	health status		
	b) Provide patient with reassurance		
	c) Return back equipments		
	d) Wash hands		

## **Administering Nebulizer Therapy**

Student's Name:	
ID #:	<b>Date :</b>

No	Procedure Steps	Yes	No	CLO
A	Preparation			
	a) Gather equipment (_ Air compressor			
	_ Connection tubing			
	_ Nebulizer			
	_ Medication and saline solutiont)			
	b) Provide comfortable environment			
	c) Explain procedure to client.			
	d) Provide privacy			
	e) Wash hands			
В	Procedure			
	Preparatory phase			
	1. Auscultate breath sounds, monitor the heart			
	rate before and after the treatment for patients			
	using bronchodilator drug			
	Performance phase			
	1. Verify correct patient. Explain the procedure to the patient. This therapy depends on patient			
	effort.			
	2. Place the patient in a comfortable sitting or a			
	semi- Fowler's position.			
	3. Add the prescribed amount of medication and			
	saline to the nebulizer. Connect the tubing to the			
	compressor and set the flow at 6 to 8 L/minute.			
	4. Instruct the patient to exhale.			
	5. Tell the patient to take in a deep breath from			
	the mouthpiece, hold breath briefly, then exhale.			
	6. Nose clips are sometimes used if the patient			
	has difficulty breathing only through the mouth.			
	7. Observe expansion of chest to ascertain that			
	patient is taking deep breaths.	<u> </u>		
	8. Instruct the patient to breathe slowly and			
	deeply until all the medication is nebulized.			
	9. On completion of the treatment, encourage the			
	patient to cough after several deep breaths			
	Follow-up phase 1. Record medication used and description of			
	secretions.			
	secretions.			

	2. Disassemble and clean nebulizer after each use.		
	Keep this equipment in the patient's room. The		
	equipment is changed according to facility policy.		
C	Procedure Termination		
	a) Put client in comfortable position according to		
	health status		
	b) Provide patient with reassurance		
	c) Return back equipments		
	d) Wash hands		
	e) Document findings		

## Administering Oxygen by Simple Face Mask with or without Aerosol

Student's Name:	
ID#:	<b>Date :</b>

No	Procedure Steps	Yes	No	Comments
A	Preparation			
	a) Gather equipment (Oxygen source			
	_ Humidifier bottle with distilled water,			
	if high humidity is desired for simple face mask			
	_ Simple face mask or plastic aerosol mask			
	_ Large-bore tubing for aerosol or			
	small-bore tubing for simple face mask			
	_ Flowmeter			
	_ Nebulizer for aerosol			
	_ NO SMOKING signs			
	For heated aerosol therapy:			
	_ Humidifier heating element)			
	b) Provide comfortable environment			
	c) Explain procedure to client.			
	d) Wash hands			
	e) provide privacy			
В	Procedure			
	Preparatory phase			
	1. Verify correct patient. Determine current vital			
	signs,			
	LOC, and SaO2 or ABG, if patient is at risk for			
	CO2			
	retention			
	2. Assess viscosity and volume of sputum			
	produced.			
	Performance phase			
	1. Post NO SMOKING signs on patient's door			
	and in view of the patient and visitors			
	2. Show the mask to the patient and explain the			
	procedure			
	3. Make sure the humidifier or nebulizer is filled			
	to the appropriate mark			
	4. Attach the large-bore tubing from the mask to			
	the humidifier in the heating element, if used.			
	5. Set desired oxygen concentration and plug in			
	the heating element, if used.			
	6. If the patient is tachypneic and concentration of			
	50% oxygen or greater is desired, two humidifiers			
	and flowmeters should be yoked together.	I	Ī	

	7. Adjust the flow rate until the desired mist is	
	produced (usually 10 to 12 L/minute).	
	8. Apply the mask to the patient's face and adjust	
	the straps so the mask fits securely. Dry face	
	around mask every 2 hours.	
	9. Drain the tubing frequently by emptying	
	condensate into a separate receptacle, not into the	
	humidifier. If a heating element is used, the	
	tubing will have to be drained more often	
	10.If a heating element is used, check the	
	temperature. The humidifier bottle should be	
	warm, not hot, to touch	
	Follow-up phase	
	1. Record FiO2 and immediate patient response.	
	Note the patient's tolerance of treatment. Notify	
	the physician if intolerance occurs.	
	2. Assess the patient's condition and the	
	functioning of equipment at regular intervals.	
	3. If the patient's condition changes, assess SaO2	
	or ABG.	
	4. Record changes in volume and tenacity of	
	sputum produced.	
C	Procedure Termination	
	a) Put client in comfortable position according to	
	health status	
	b) Provide patient with reassurance	
	c) Return back equipments	
	d) Wash hands	
	e) Documents Findings	

## Administering Oxygen by Venturi Mask (High Air Flow Oxygen Entrainment System

Student's Name:	_
ID#:	Date :

Procedure Steps	Yes	No	CLO
Preparation			
a) Gather equipment (Oxygen source			
_ Flowmeter			
<u> </u>			
b) Provide comfortable environment			
c) Explain procedure to client.			
d) Wash Hands			
e) Provide privacy			
Procedure			
Preparatory phase			
1. Verify correct patient. Determine current vital			
administration			
Performance phase			
mouth and under the chin. Adjust elastic strap.			
	a) Gather equipment (Oxygen source Flowmeter Venturi mask for correct concentration (24%, 28%, 31%, 35%, 40%, 50%) or correct concentration adapter if interchangeable color-coded adapters are used NO SMOKING signs If high humidity desired Compressed air source and flowmeter Humidifier with distilled water Large-bore tubing) b) Provide comfortable environment c) Explain procedure to client. d) Wash Hands e) Provide privacy  Procedure  Preparatory phase 1. Verify correct patient. Determine current vital signs, LOC, and most recent ABG 2. Assess risk of CO2 retention with oxygen administration  Performance phase 1. Post NO SMOKING signs on the door of the patient's room and in view of patient and visitors. 2. Show the Venturi mask to the patient and explain the procedure 3. Connect the mask by lightweight tubing to the oxygen source. 4. Turn on the oxygen flowmeter and adjust to the prescribed rate (usually indicated on the mask). Check to see that oxygen is flowing out the vent holes in the mask. 5. Place Venturi mask over the patient's nose and	a) Gather equipment (Oxygen source Flowmeter Venturi mask for correct concentration (24%, 28%, 31%, 35%, 40%, 50%) or correct concentration adapter if interchangeable color-coded adapters are used NO SMOKING signs If high humidity desired Compressed air source and flowmeter Humidifier with distilled water Large-bore tubing) b) Provide comfortable environment c) Explain procedure to client. d) Wash Hands e) Provide privacy  Procedure  Preparatory phase 1. Verify correct patient. Determine current vital signs, LOC, and most recent ABG 2. Assess risk of CO2 retention with oxygen administration  Performance phase 1. Post NO SMOKING signs on the door of the patient's room and in view of patient and visitors. 2. Show the Venturi mask to the patient and explain the procedure 3. Connect the mask by lightweight tubing to the oxygen source. 4. Turn on the oxygen flowmeter and adjust to the prescribed rate (usually indicated on the mask). Check to see that oxygen is flowing out the vent holes in the mask. 5. Place Venturi mask over the patient's nose and	a) Gather equipment (Oxygen source Flowmeter Venturi mask for correct concentration (24%, 28%,31%, 35%, 40%, 50%) or correct concentration adapter if interchangeable color-coded adapters are used NO SMOKING signs If high humidity desired Compressed air source and flowmeter Humidifier with distilled water Large-bore tubing) b) Provide comfortable environment c) Explain procedure to client. d) Wash Hands e) Provide privacy  Procedure  Preparatory phase 1. Verify correct patient. Determine current vital signs, LOC, and most recent ABG 2. Assess risk of CO2 retention with oxygen administration  Performance phase 1. Post NO SMOKING signs on the door of the patient's room and in view of patient and visitors. 2. Show the Venturi mask to the patient and explain the procedure 3. Connect the mask by lightweight tubing to the oxygen source. 4. Turn on the oxygen flowmeter and adjust to the prescribed rate (usually indicated on the mask). Check to see that oxygen is flowing out the vent holes in the mask. 5. Place Venturi mask over the patient's nose and

	6. Check to make sure holes for air entry are not	
	obstructed by the patient's bedding.	
	7. If aerosol nebulizer used:	
	a. Connect the humidifier to a compressed air	
	source.	
	b. Attach large-bore tubing to the humidifier and	
	connect the tubing to the fitting for high humidity	
	at the base of the Venturi mask.	
	Follow-up phase	
	1. Record flow rate used and immediate patient	
	response.	
	Note the patient's tolerance of treatment. Report	
	if intolerance occurs.	
	2. If CO2 retention is present, assess ABG every	
	30 minutes for 1 to 2 hours or until the PaO2 is	
	greater than 50 mm Hg and the PaCO2 is no	
	longer increasing. Monitor pH. Report	
	if the pH decreases below the initial assessment	
	value.	
	3. Determine patient comfort with oxygen use.	
С	Procedure Termination	
	a) Put client in comfortable position according to	
	health status	
	b) Provide patient with reassurance	
	c) Return back equipments	
	d) Wash hands	
	e) Document findings	

#### **Procedure 17**

## **Teaching Self-Injection of Insulin**

#### **EQUIPMENT**

- 15. Prescribed bottle of insulin
- 16. Disposable insulin syringe and needle or insulin pen injection device with insulin cartridge
- 17. Cotton ball and alcohol or alcohol wipe

No	Procedure Steps	Yes	No	CLO
A	Procedure			
1.	Give the patient the syringe or insulin pen device containing the prescribed dose of insulin.			
2.	Have patient select a clean area of subcutaneous tissue.			
3.	Instruct the patient to hold the syringe as he would a pencil			
4.	Show the patient how to select an area of skin from the anterior thighs and form a skin fold by picking up subcutaneous tissue between the thumb and forefinger if the patient is thin.			
5.	Select areas of upper arms, abdomen, and upper buttocks for injection after patient becomes proficient with needle insertion			
6.	Assist the patient to insert the needle with a quick thrust to the hub at a 45- to 90-degree angle to the skin surface.			
7.	Instruct the patient to release the "pinched" skin and inject the insulin with slow, consistent pressure.			
8.	Have the patient count to 5 and then withdraw the needle in the same direction it was inserted.			
9.	If insulin is in a suspension (NPH), gently shake, rotate, or roll the insulin bottle to mix well.			
10.	Do not instruct the patient to wipe off the top of the vial with alcohol; instead, make sure that the vial is stored in its original carton and is kept clean.			
11.	Inject approximately the same volume of air into the insulin vial as the volume of insulin to be withdraw			
12.	If insulin pen device is being used, follow manufacturer's instructions for dialing the dosage and changing cartridges			
13.	To fill a syringe with long- and short-acting insulin mixture			

14.	Inject air equal to the number of units to be injected into each vial. Use the same sequence each time, for example, always NPH insulin first.		
15.	After injecting air into the second vial, keep needle in vial and withdraw prescribed amount of that type of insulin, then withdraw needle		
16.	Withdraw prescribed amount of insulin from the second vial		

### **Procedure 18**

### **Foot Care Guidelines**

#### **EQUIPMENT**

- \_ Mirror (optional)
- \_ Magnifying glass (optional)
- \_ Moisturizing lotion
- \_ Lamb's wool
- Scissors and nail file

No	Procedure Steps	Yes	No	CLO
A	Procedure			
1.	Inspect the feet carefully and daily for calluses,			
	corns, blisters, abrasions, redness, and nail abnormalities.			
2.	Bathe the feet daily in warm (never hot) water.			
3.	Massage the feet with an absorbable agent.			
4.	Prevent moisture between the toes to prevent			
	maceration of the skin.			
5.	Wear well-fitting, noncompressive shoes and			
	socks— long enough, wide enough, soft, supple, and low-heeled.			
6.	Go to a podiatrist on a regular basis if corns,			
	calluses, and ingrown toenails are present.			
7.	Avoid heat, chemicals, and injuries to the feet.			
8.	Inspect inside of shoes for foreign objects or			
	areas of roughness.			
9.	Take action if an injury occurs to the foot.			

### **Procedure 19**

## **Check List For Leg Exercises**

No	Procedure Steps	Perfo	rmed	Comments	
		Yes	No		
1	Check the patient's chart for the type of surgery				
	and review the medical orders.				
2	Gather the necessary supplies and bring to the				
	bedside stand or overbed table.				
3	Perform hand hygiene and put on PPE, if				
	indicated.				
4	Identify the patient.				
5	Close curtains around bed and close the door to				
	the room, if possible. Explain what you are going				
	to do and why you are going to do it to the				
	patient.				
6	Identify the patient's learning needs. Identify the				
	patient's level of knowledge regarding leg				
	exercises. If the patient has had surgery before,				
	ask about this experience.				
7	Explain the rationale for performing leg				
	exercises.				
8	Provide teaching regarding leg exercises.				
	Assist or ask the patient to sit up (semi-Fowler's				
	position) and explain to the patient that you will				
	first demonstrate, and then coach him/her to				
	exercise one leg at a time.				
	Straighten the patient's knee, raise the foot,				
	extend the lower leg, and hold this position for a				
	few seconds. Lower the entire leg. Practice this				
	exercise with the other leg.  Assist or ask the patient to point the toes of both				
	legs toward the foot of the bed, then relax them.				
	Next, flex or pull the toes toward the chin.				
	Assist or ask the patient to keep legs extended				
	and to make circles with both ankles, first				
	circling to the left and then to the right. Instruct				
	the patient to repeat these exercises three times.				
9	Validate the patient's understanding of				
	information. Ask the patient to give a return				
	demonstration. Ask the patient if he or she has				
	any questions. Encourage the patient to practice				
	the activities and ask questions, if necessary.				
10	Remove PPE, if used. Perform hand hygiene.				

# **Procedure 20**Check List Preoperative Care Day Of Surgery

.No	Procedure Steps	Performed	Comments	
	•	Yes	No	
1	Check the patient's chart for the type of surgery			
	and review the medical orders. Review the			
	nursing database, history, and physical			
	examination. Check that the baseline data are			
	recorded; report those that are abnormal.			
2	Gather the necessary supplies and bring to the			
	bedside stand or overbed table.			
3	Perform hand hygiene and put on PPE, if			
	indicated.			
4	Identify the patient.			
5	Close curtains around bed and close the door to			
	the room, if possible. Explain what you are			
	going to do and why you are going to do it to			
	the patient.			
6	Check that preoperative consent forms are			
	signed, witnessed, and correct; that advance			
	directives are in the medical record (as			
	applicable); and that the patient's chart is in			
	order.			
7	Check vital signs. Notify primary care provider			
	and surgeon of any pertinent changes (e.g., rise			
	or drop in blood pressure, elevated temperature,			
	cough, symptoms of infection).			
8	Provide hygiene and oral care. Assess for loose			
	teeth and caps. Remind patient of food and			
	fluid restrictions before surgery.			
9	Instruct the patient to remove all personal			
	clothing, including underwear, and put on a			
4.0	hospital gown.			
10	Ask patient to remove cosmetics, jewelry			
	including bodypiercing, nail polish, and			
	prostheses (e.g., contact lenses, false eyelashes,			
	dentures, and so forth). Some facilities allow a			
	wedding band to be left in place depending on			
	the type of surgery, provided it is secured to the			
11	finger with tape.			
11	If possible, give valuables to family member or			
	place valuables in appropriate area, such as the			
	hospital safe, if this is not possible. They			
12	should not be placed in narcotics drawer.			
12	Have patient empty bladder and bowel before			
12	Surgery.			
13	Attend to any special preoperative orders, such			
	as starting an IV line.			

14	Complete preoperative checklist and record of		
	patient's preoperative preparation.		
15	Question patient regarding the location of the		
	operative site. Document the location in the		
	medical record according to facility policy. The		
	actual site will be marked on the patient when		
	the patient arrives in the preoperative		
	holding area by the licensed independent		
	practitioner who will be directly involved in the		
	procedure		
16	Administer preoperative medication as		
	prescribed by physician/anesthesia provider.		
17	Raise side rails of bed; place bed in lowest		
	position. Instruct patient to remain in bed or on		
	stretcher. If necessary, use a safety belt.		
18	Help move the patient from the bed to the		
	transport stretcher, if necessary. Reconfirm		
	patient identification and ensure that all		
	preoperative events and measures are		
	documented.		
19	Tell the patient's family where the patient will		
	be taken after surgery and the location of the		
	waiting area where the surgeon will come to		
	explain the outcome of the surgery. If possible,		
	take the family to the waiting area.		
20	After the patient leaves for the operating room,		
	prepare the room and make a postoperative bed		
	for the patient. Anticipate any necessary		
	equipment based on the type of surgery and the		
	patient's history.		
21	Remove PPE, if used. Perform hand hygiene.		

## Procedure 21 Check List For Early Post Operative And Convalescent Phase Recovery

No	Procedure Steps	Perfo	rmed	
	•	Yes	No	Comments
	Immediate Care			
1	When patient returns from the PACU,			
	obtain a report from the PACU nurse			
	and review the operating room and			
	PACU data.			
2	Perform hand hygiene and put on PPE,			
	if indicated.			
3	Identify the patient.			
4	Close curtains around bed and close the			
	door to the room, if possible. Explain			
	what you are going to do and why you			
	are going to do it to the patient.			
5	Place patient in safe position (semi- or			
	high Fowler's or side-lying). Note level			
	of consciousness.			
6	Obtain vital signs. Monitor and record			
	vital signs frequently. Assessment order			
	may vary, but usual frequency includes			
	taking vital signs every 15 minutes the			
	first hour, every 30 minutes the next 2			
	hours, every hour for 4 hours, and			
	finally every 4 hours.			
7	Assess the patient's respiratory status.			
	Measure the patient's oxygen saturation			
0	level.			
8	Assess the patient's cardiovascular status.			
9	Assess the patient's neurovascular			
9	status, based on the type			
	of surgery performed.			
10	Provide for warmth, using heated or			
	extra blankets, as necessary. Assess skin			
	color and condition.			
11	Check dressings for color, odor,			
	presence of drains, and amount of			
	drainage. Mark the drainage on the			
	dressing by circling the amount, and			
	include the time. Turn the patient			
	to assess visually under the patient for			
	bleeding from the surgical site.			

12	Verify that all tubes and drains are		
12	1		
	patent and equipment is operative; note		
	amount of drainage in collection device.		
	If an indwelling urinary (Foley) catheter		
12	is in place, note urinary output.		
13	Verify and maintain IV infusion at		
1.4	correct rate.		
14	Assess for pain and relieve it by administering medications ordered by		
	,		
	the physician. If the patient has been		
	instructed in use of PCA for pain		
	management, review its use. Check		
	record to verify if analgesic medication was administered in the PACU.		
15			
15	Provide for a safe environment. Keep bed		
	in low position with side rails up, based		
	on facility policy. Have call bell		
16	within patient's reach.		
16	Remove PPE, if used. Perform hand		
	hygiene.		
15	Ongoing Care		
17	Promote optimal respiratory function.		
	Assess respiratory rate, depth, quality,		
	color, and capillary refill. Ask if the		
	patient is experiencing any difficulty		
	breathing.		
	Assist with coughing and deep breathing exercises		
	Assist with northy embylation		
	Assist with early ambulation		
	Provide frequent position change.		
	Administer oxygen as ordered.		
10	Monitor pulse oximetry		
18	Promote optimal cardiovascular function:		
	Assess apical rate, rhythm, and quality and compare with peripheral pulses,		
	color, and blood pressure. Ask if		
	the patient has any chest pains or		
	shortness of breath.		
	Provide frequent position changes.		
	Assist with early ambulation.		
	Apply antiembolism stockings or		
	pneumatic compression devices, if		
	ordered and not in place. If in place,		
	assess for integrity.		
	Provide leg and range-of-motion		
	exercises if not contraindicated		
19	Promote optimal neurologic function:		
19	1 Tomote optimal neurologic function;		

	Assess level of consciousness, motor,	
	and sensation.	
	Determine the level of orientation to	
	person, place, and time.	
	Test motor ability by asking the patient	
	to move each extremity.	
	Evaluate sensation by asking the patient	
	if he or she can feel your touch on an	
	extremity.	
20	Promote optimal renal and urinary	
	function and fluid and electrolyte status.	
	Assess intake and output, evaluate for	
	urinary retention and monitor serum	
	electrolyte levels.	
	Promote voiding by offering bedpan at	
	regular intervals, noting the frequency,	
	amount, and if any burning or	
	urgency symptoms.	
	Monitor urinary catheter drainage if	
	present.	
	Measure intake and output.	
21	Promote optimal gastrointestinal	
	function and meet nutritional needs:	
	Assess abdomen for distention and	
	firmness. Ask if patient feels nauseated,	
	any vomiting, and if passing flatus.	
	Auscultate for bowel sounds.	
	Assist with diet progression; encourage	
	fluid intake; monitor intake.	
	Medicate for nausea and vomiting, as	
	ordered by physician.	
22	Promote optimal wound healing.	
	Assess condition of wound for presence	
	of drains and any drainage.	
	Use surgical asepsis for dressing	
	changes.	
	Inspect all skin surfaces for beginning	
	signs of pressure ulcer development and	
	use pressure-relieving supports to	
22	minimize potential skin breakdown.	
23	Promote optimal comfort and relief	
	from pain.	
	Assess for pain (location and intensity	
	using scale)	
	Provide for rest and comfort; provide	
	extra blankets, as needed, for warmth.	
	Administer pain medications, as needed,	
	or other nonpharmacologic methods.	

24	Promote optimal meeting of		
	psychosocial needs:		
	Provide emotional support to patient and		
	family, as needed.		
	Explain procedures and offer		
	explanations regarding postoperative		
	recovery, as needed, to both patient and		
	family members		

# **Procedure 22**Check List For Deep Breathing Exercises, Coughing, Splinting

No	Procedure Steps	Perfor	med	Comments
	_	Yes	No	
1	Check the patient's chart for the type of surgery			
	and review the medical orders.			
2	Gather the necessary supplies and bring to the			
	bedside stand or over bed table.			
3	Perform hand hygiene and put on PPE, if			
	indicated.			
4	Identify the patient.			
5	Close curtains around bed and close the door to			
	the room, if possible. Explain what you are going			
	to do and why you are going to do it to the			
	patient.			
6	Identify the patient's learning needs. Identify the			
	patient's level of knowledge regarding deep			
	breathing exercises, coughing, and splinting of			
	the incision. If the patient has had surgery before,			
	ask about this experience.			
7	Explain the rationale for performing deep			
	breathing exercises, coughing, and splinting of			
	the incision.			
8	Provide teaching about deep breathing exercises.			
	Assist or ask the patient to sit up (semi- or high-			
	Fowler's position) and instruct the patient to			
	place the palms of both hands along the lower			
	anterior rib cage.			
	Instruct the patient to exhale gently and			
	completely.			
	Instruct the patient to breathe in through the nose as deeply as possible and hold breath for 3			
	seconds.			
	Instruct the patient to exhale through the mouth,			
	pursing the lips like when whistling.			
	Have the patient practice the breathing exercise			
	three times. Instruct the patient that this exercise			
	should be performed every 1 to 2 hours for the			
	first 24 hours after			
	surgery.			
9	Provide teaching regarding coughing and			
	splinting (providing support to the incision).			
	Ask the patient to sit up (semi-Fowler's position)			
	and apply a folded bath blanket or pillow against			
	the part of the body where the incision will be			
	(e.g., abdomen or chest).			
	Instruct the patient to inhale and exhale through			
	the nose three times.			

	Ask the patient to take a deep breath and hold it		
	for		
	3 seconds and then cough out three short breaths.		
	Ask the patient to take a breath through the		
	mouth and strongly cough again two times.		
	Instruct the patient that he or she should perform		
	these actions every 2 hours when awake after		
	surgery.		
10	Validate patient's understanding of information.		
	Ask the patient to give a return demonstration.		
	Ask the patient if he or she has any questions.		
	Encourage the patient to practice		
	the activities and ask questions, if necessary.		
11	Remove PPE, if used. Perform hand hygiene.		_