



HEALTHCARE SCIENCE

COURSE: 25.561 Nursing Essentials

UNIT: 26.2 Drainage Tubes & Specimen Collection



INTRODUCTION

Annotation:

In this unit students will learn about the various tubes that residents/patients/clients may have, and the purpose of the tubes and the role of the nursing assistant in caring for r residents/patients/clients with various tubes.

Grade(s):

<input type="checkbox"/>	9 th
<input type="checkbox"/>	10 th
<input checked="" type="checkbox"/>	11 th
<input checked="" type="checkbox"/>	12 th

Time:

Five 50 minute periods

Author:

Phyllis Dumas

Additional Author(s):

Students with Disabilities:

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation.



FOCUS STANDARDS

GPS Focus Standards:

HS-NE-12:

The student will perform basic nursing skills within the scope of practice for a nursing assistant while maintaining resident/patient/client rights. Beginning and ending procedures will be performed with all resident/patient/client care.

- g. Collect specimens according to facility policy and procedure
- h. Follow facility guidelines for caring for residents/patients/clients with various drainage tubes.

GPS Academic Standards:

National / Local Standards / Industry / ISTE:



UNDERSTANDINGS & GOALS

Enduring Understandings:

- The purpose of intravenous catheters, nasogastric tubes, gastrostomy tubes, and central venous catheters
- The purpose and care for a resident with an indwelling or condom catheter
- The importance of sputum, urine and stool specimen and how to collect and handle specimen using infection control practices

Essential Questions:

- What is the purpose of an IV catheter and central venous line?
- What is the nursing assistant's role in caring for residents who have an IV catheter or central venous line?
- What is the purpose of a nasogastric, and gastrostomy tubes?
- What is the nursing assistant's role in caring for residents who have nasogastric or gastrostomy tubes?
- How do I provide care for residents with indwelling or condom catheter?
- What are the reasons urine, stool, and sputum are tested?
- How do I collect urine, stool or sputum specimen while maintaining infection control practices?

Knowledge from this Unit:

- Indications for having IV catheters, NG tubes, G-tubes, and central venous lines
- Indications for indwelling or condom catheter
- Signs and symptoms of problems with tubes that may need prompt attention and or need to be reported to the nurse?
- The rationale and process for collecting urine, stool and sputum specimen

Skills from this Unit:

- Identify the various drainage tubes
- Identify signs of infection that may occur at the insertion site of drainage tubes
- Maintain infection control practices while caring for patients with various drainage tubes
- Demonstrate how to collect stool, sputum and urine samples



ASSESSMENT(S)

Assessment Method Type:

- ___ Pre-test
- ___ Objective assessment - multiple-choice, true- false, etc.
 - ___ Quizzes/Tests
 - ___ Unit test
- ___ Group project
- ___ Individual project
- ___ Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
 - ___ Self-check rubrics
 - ___ Self-check during writing/planning process
 - ___ Journal reflections on concepts, personal experiences and impact on one's life
 - ___ Reflect on evaluations of work from teachers, business partners, and competition judges
 - ___ Academic prompts
 - ___ Practice quizzes/tests
- X Subjective assessment/Informal observations
 - ___ Essay tests
 - ___ Observe students working with partners
 - ___ Observe students role playing
- ___ Peer-assessment
 - ___ Peer editing & commentary of products/projects/presentations using rubrics
 - ___ Peer editing and/or critiquing
- ___ Dialogue and Discussion
 - ___ Student/teacher conferences
 - ___ Partner and small group discussions
 - ___ Whole group discussions
 - ___ Interaction with/feedback from community members/speakers and business partners

- _____ Constructed Responses
- _____ Chart good reading/writing/listening/speaking habits
- _____ Application of skills to real-life situations/scenarios
- _____ Post-test

Assessment(s) Title:

Assessment(s) Description/Directions:

Attachments for Assessment(s):



LEARNING EXPERIENCES

Sequence of Instruction

1. Identify the Standards. Standards should be posted in the classroom for each lesson.

HS-NE-12: The student will perform basic nursing skills within the scope of practice for a nursing assistant while maintaining resident/patient/client rights. Beginning and ending procedures will be performed with all resident/patient/client care.

2. Review Essential Questions.

- What is the purpose of an IV catheter and central venous line?
- What is the nursing assistant's role in caring for residents who have an IV catheter or central venous line?
- What is the purpose of a nasogastric, and gastrostomy tubes?
- What is the nursing assistant's role in caring for residents who have nasogastric or gastrostomy tubes?
- How do I provide care for residents with indwelling or condom catheter?
- What are the reasons urine, stool, and sputum are tested?
- How do I collect urine, stool or sputum specimen while maintaining infection control practices?

3. Identify and review the unit vocabulary.

- IV Catheter
- Central Venous Line
- Indwelling catheter
- Gastrostomy Tube
- Nasogastric Tube

- sputum
- Stool guaiac
- Urinalysis
- Clean-catch urine
- Midstream urine
- Condom catheter
- Urine dipstix
- Graduate or urinal
- Urine culture and sensitivity (C&S)

4. Assessment Activity.

- a) Throughout this unit, emphasize the role of the nursing assistant as you discuss each component and the importance of helping the nurse monitor and report variances to the nurse
- b) Introduce the lesson by asking if anyone or a family member or friend has ever been in the hospital and had some type of tube. Allow person to share information if can remember what type of tube. State in this unit you will learn about different types of tubes/drains
- c) Have students define key terms
- d) Review appropriate vocabulary from elimination handout
- e) An option is to write the names of the different tubes on the board and in small groups have students research tubes on the internet and share their findings especially as it relates to safety
- f) Discuss how important it is to know where tubes are when moving and transferring a resident/patient client
- g) Discuss IV tubes-types and why used
- h) Show basic equipment and allow students to handle
- i) Discuss parenteral nutrition
- j) Discuss nasogastric tubes, purpose, nursing care
- k) Show students of have tube inserted in manikin for students to see as point out observations and care
- l) Discuss pumps for feeding and suction for removing secretions
- m) Discuss gastrostomy tubes-purpose and care
- n) Discuss urinary catheters- indwelling, straight, condom
- o) Demonstrate insertion of indwelling catheter and importance of sterile technique
- p) Discuss how to care for urinary drainage bag and empty the bag- make simulated urine using yellow food coloring, fill bag using a catheter tipped syringe (as a funnel) inserted into emptying port of drainage bag for students to practice emptying and measuring

- q) Show students how to clean and reconnect catheter from drainage bag and how to change to a leg bag
- r) Demonstrate how to apply and remove condom catheter and how to maintain drainage
- s) Allow students to practice applying and removing condom catheter
- t) Emphasize the importance of good skin care and monitoring
- u) Discuss handling samples of body fluids
- v) Demonstrate how to collect routine urine sample, clean-catch/midstream urine sample
- w) Discuss and demonstrate procedure for collecting 24 hour urine
- x) Demonstrate how to collect routine stool specimen
- y) Demonstrate how to apply stool sample to occult blood slide
- z) Demonstrate how to test a urine sample with dip stix
- aa) Discuss and demonstrate how to collect, and package a sputum specimen for transport
- bb) Student practice identifying various drainage tubes
- cc) For review, place the names of items on index cards and have students randomly match card to tube, specimen container, etc. They can also state the role of the nursing assistant in providing care for that item

Attachments for Learning Experiences:

Notes & Reflections:

- Gather various types of tubes or pictures of tubes such as the indwelling catheter, straight catheter, Salem sump tube, NG feeding tube, gastrostomy tube, IV catheter with Tubing and infusion bag, Sample of tube feeding container and pump, suction and specimen collection containers
- This unit may be modified (shortened or extended) depending on the time. You may also want to incorporate portions of this unit with other units such as NG tubes, collection of urine and stool specimen with the nutrition and elimination unit. Sputum collection may be incorporated with the disorders of the respiratory system unit. It is essential that students know about NG and gastrostomy tubes and how to care for residents with these tubes and/or receiving tube feedings.
- This unit should involve lots of hands on practice, especially observing and reporting
- Students need to know how to care for a resident with an indwelling catheter and what to observe and report
- They also need to know about specimen collection techniques
- Refer to textbook procedures for these topics



CULMINATING PERFORMANCE TASK (Optional)

Culminating Unit Performance Task Title:

Urinary Catheter Care, Emptying Urinary Drainage Bag

Culminating Unit Performance Task Description/Directions/Differentiated

Use the skills check off forms associated with these task from the textbook you are using

Attachments for Culminating Performance Task

Skills check off forms



UNIT RESOURCES

Web Resources:

Attachment(s):

Materials & Equipment:

- IV catheters and tubing
- NG tube
- Gastrostomy tube
- Indwelling catheter tray
- Straight catheter
- Condom catheter
- Catheter drainage bag
- Leg drainage bag
- Graduate or urinal
- Specipan or beneath the commode seat pan
- Yellow food color
- Urine dipstix
- Stool occult blood card
- Stool specimen cup
- Routine urine cup
- Clean-catch urine kit
- Sputum cup
- Central venous catheter
- Manikin
- Clean gloves
- Sterile gloves
- Video
- TV/VCR
- Computer/Internet access

What 21st Century Technology was used in this unit:

<input type="checkbox"/>	Slide Show Software
<input type="checkbox"/>	Interactive Whiteboard
<input type="checkbox"/>	Student Response System
<input type="checkbox"/>	Web Design Software
<input type="checkbox"/>	Animation Software
<input type="checkbox"/>	Email

<input type="checkbox"/>	Graphing Software
<input type="checkbox"/>	Calculator
<input type="checkbox"/>	Desktop Publishing
<input type="checkbox"/>	Blog
<input type="checkbox"/>	Wiki
<input checked="" type="checkbox"/>	Website

<input type="checkbox"/>	Audio File(s)
<input type="checkbox"/>	Graphic Organizer
<input type="checkbox"/>	Image File(s)
<input checked="" type="checkbox"/>	Video
<input type="checkbox"/>	Electronic Game or Puzzle Maker