





UNIT-V

ELIMINATION NEEDS IN NURSING FOUNDATION

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PROFESSOR





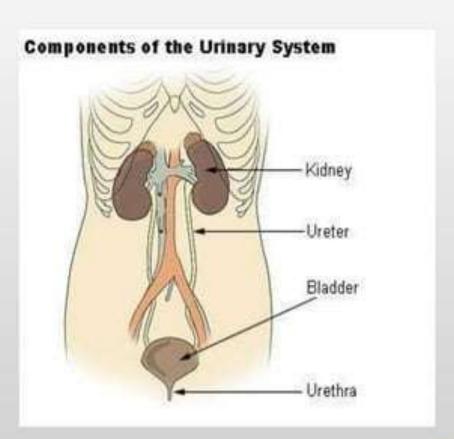
ELIMINATION





Quick Anatomy Moment

- Kidneys
- Ureters
- Bladder
- Urethra







Urine formation

Filtration – filters blood

- does not filter out RBC's & protein

Reabsorption – as needed

Water, electrolytes, glucose

Secretion

H,K ammonia, creatinine, uric acid

Micturition

The process of emptying the bladder

- Contraction of detrusor muscle
- Increases pressure on bladder to produce urge to urinate
- Pressure overcomes the internal sphincter
- Urine enters urethra
- + Requires relaxation of external sphincter





Characteristics of Normal Urine

- Volume approx 250ml-400ml per void
- normal production 30ml/hour
 - -1200-1500cc for average adult per 24 hours
 - 500-600 newborns
- Color

light yellow

Clarity

clear without sediment

Odor

no odor





Factors Affecting Urination

- Fluid Intake influences output and frequency
- Hypovolemia- loss of fluid
- Nutrition food content, salt, ETOH, caffeine
- Body position work with gravity
- Cognition dementia/confusion, stroke





Factors Affecting Urination (cont.)

- Psychological factors stress, running water, warm water, privacy
- Obstruction anatomical, disease process
- Infection E. coli
- Medications diuretics





Altered Urinary function

- Dysuria
- Polyuria
- Oliguria
- Urgency
- Frequency





Altered Urinary function (cont.)

- Nocturia
- Hematuria
- Pyuria
- Urinary retention





Incontinence

- Stress
- increased abdominal pressure
- Functional unable to get to bathroom
- Total continuous, involuntary

Diagnostics

SIS

Random specimen

- does not need to be sterile
- into container or nun's cap

Clean catch

- sterile
- three wipes







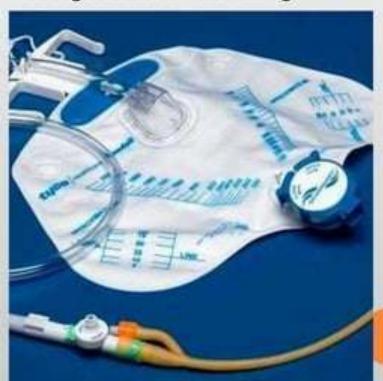


Diagnostics (cont.)

- o 24 hour
 - -kidney function
 - must include all urine
 - timing

Catheter sample

- sterile
- straight cath or indwelling









Collecting urine from young children

- Catheterization not recommended
- Use of collection bag



- Tests

 Specific gravity
 - weight or concentration of urine compared to water
 - urinometer
 - normal adult 1.010 1.025



Reagant strips

- dipped in urine
- measures substances in urine such as glucose, proteins & ketones







Tests (cont)

- Urinalysis
 - most common
 - 20cc-30cc sample



- identify microorganisms
 - 24 to 48 hours
 - often related to antibiotic use



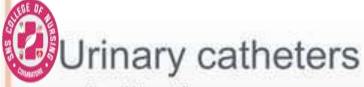


Urinary Health Promotion



- Intake
- o UTI's
- Muscle tone







Indications

-inability to void, accurate measurement, irrigation, comfort

Types

- straight, indwelling (Foley), triple lumen

Risks

- infection, trauma





Straight catheterization

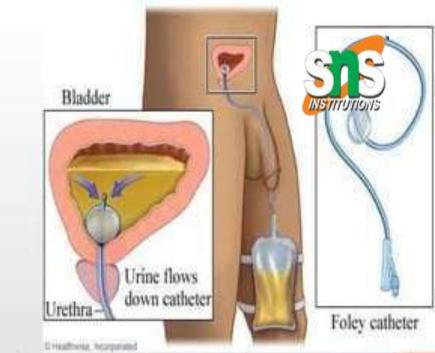
- Wash hands
- Check pt ID
- Explain procedure
- Position patient
- Open kit
- Bottom drape
- Sterile gloves
- Top drape
- Pour betadine on cotton balls
- Open lubricant
- Nondominant vs dominant hands
- Insert and advance
- Sample if needed
- Reposition patient, remove gloves, wash hands document





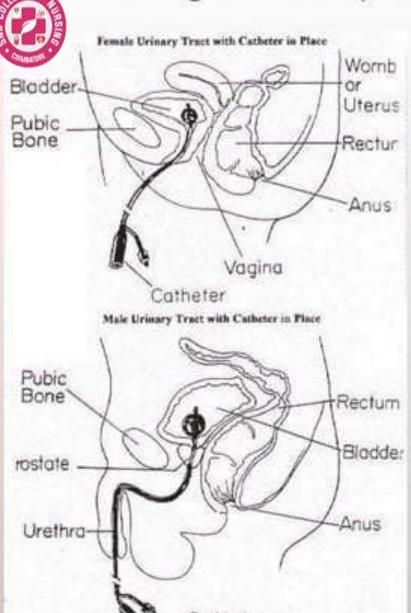
Indwelling catheterization

- Wash hands
- Check pt ID
- Explain procedure
- Position patient
- Open kit
- Bottom drape
- Sterile gloves
- Top drape
- Test balloon
- Pour betadine on cotton balls
- Open lubricant
- Nondominant vs dominant hands
- Insert, advance & inflate balloon
- Sample if needed
- Reposition patient, strap to leg, remove
 doves wash hands document





Indwelling catheter (Foley)







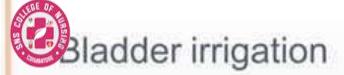


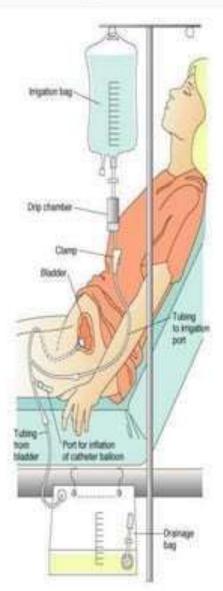




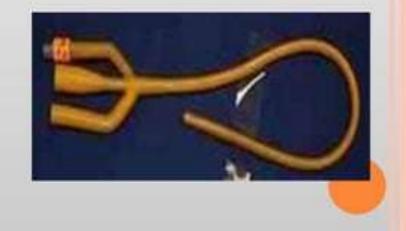
Nursing Responsibilities

- Placement and removal
- Assessment
- Sample collection
- Troubleshoot
- Irrigate when needed





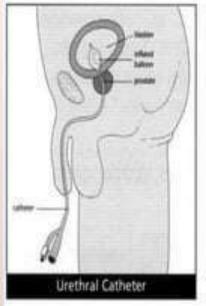


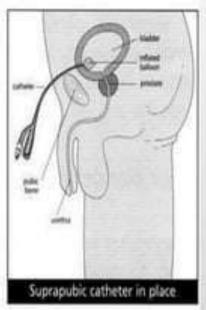


ther types of urinary catheters



Suprapubic

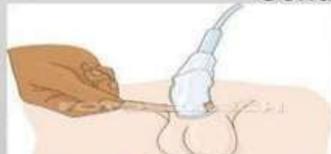




Nephrostomy tubes



Condom Catheter





Other related urinary components



Dialysis

Bladder scanner

Hemodialysis



Peritoneal dialysis

