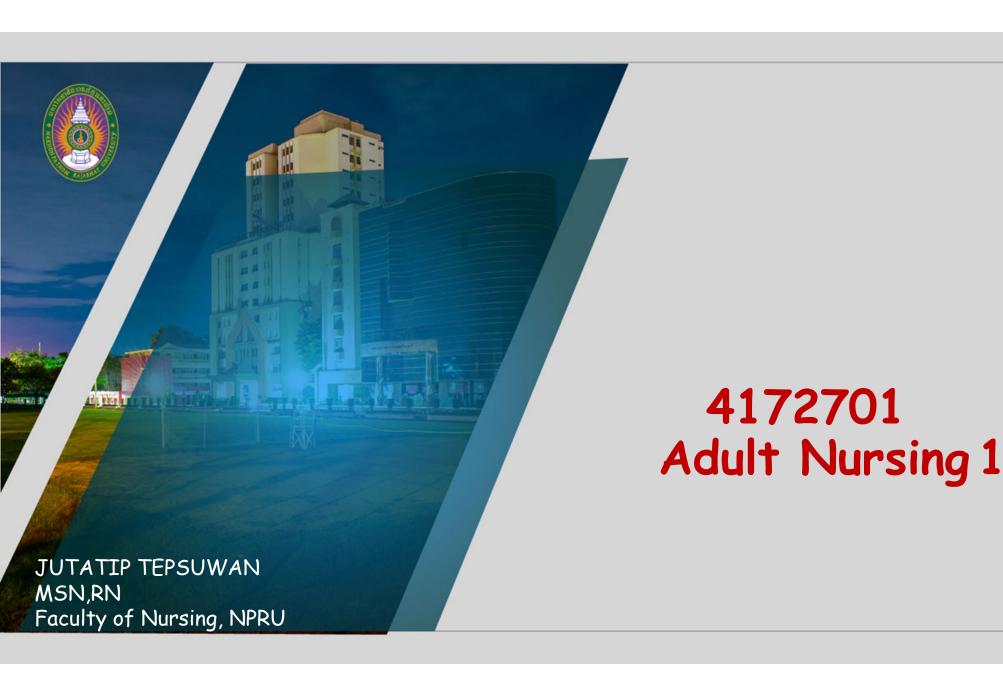


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Learning outcomes



- Describe patients with abnormalities in the urinary system.
- Describe Pathology, signs and symptoms of patients with abnormalities in the urinary system.
- Describe treatment in patients with abnormalities in the urinary system.
- Describe nursing diagnosis and nursing care in patients with abnormalities in the urinary system.

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Urinary tract disorders: overwiew



- urinary tract infection: cystitis, Pyelonephritis
- acute glomerulonephritis
- Lithiasis
- · CA bladder
- neurogenic bladder
- acute kidney injury
- chronic kidney disease
- male reproductive disorders

Urinary tract disorders

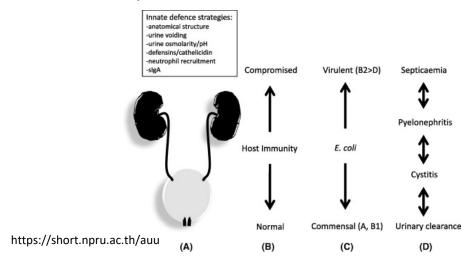


Part 1
Infection



- Inflammation of urinary tract following bacterial invasion.
- Infection of bladder is otherwise know as Cystitis and infection of kidney and upper tracts is Pyelonephritis.

 Lower upper
- UTI has 2 categories:
 - Uncomplicated UTI in an otherwise normal urinary tract
 - Complicated UTI- in abnormal or male urinary tract

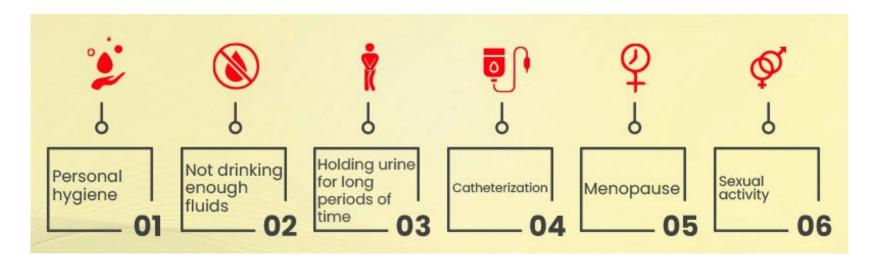




Most common causative organism:

- E.coli
- Proteus mirabilis (associated with stones)
- Klebsiella

Causes of UTI



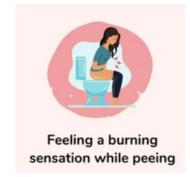




High fever



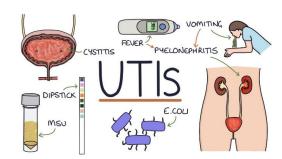
Signs & Symptoms











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UTIs are usually diagnosed using a combination of a physical exam, medical history, and laboratory tests.

- Urinalysis (UA)
- Urine culture (UC)
- X-ray:Plain KUB, IVP, retrograde pyelography, CT scan, MRI
- Cystoscopy



Treatment Of UTIs

- Drinking plenty of water
- Taking over-the-counter pain relievers
- Using a heating pad
- Applying a cold pack to the lower abdomen
- Consuming vitamin C
- · Antibiotics:
 - Uncomplicate UTI→ 3 day course of oral ABO
 - complicate UTI→ 7 day course of oral ABO & IV ABO



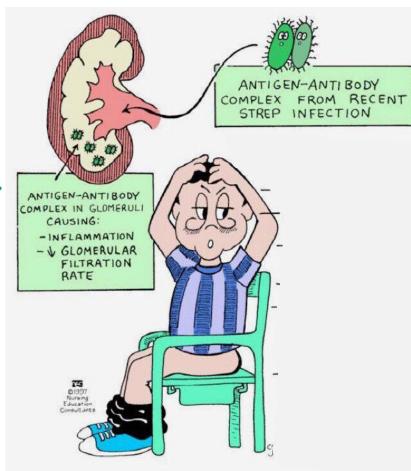
Nursing Care Plans:

- Acute Pain Related to Inflammatory process
- Hyperthermia Related to Disease process

- Control of pyrexia:
- Tepid sponging or cold compresses
- Anti-pyrexials
- Monitor 4-hourly TPR
- Maintain IV therapy/ fluid balance
- Encourage oral fluids as tolerated and frequent voiding
- IV antibiotics
- Mouth care as required



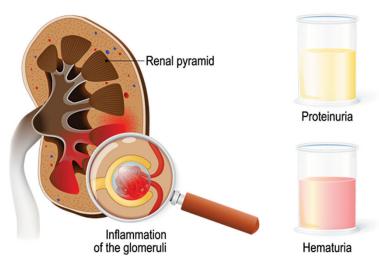
- Glomerulonephritis is inflammation of the glomeruli.
- Glomerulonephritis can be caused by various disorders, such as infections, an inherited genetic disorder, or autoimmune disorders.
- Glomerulonephritis can come on acute or chronic.





Signs and symptom

- Hematuria: Pink or cola-colored urine from red blood cells in urine
- Proteinuria: Foamy or bubbly urine due to excess protein in the urine
- Hypertension
- Edema: Fluid retention with swelling evident in face, hands, feet and abdomen.
- Urinating less than usual
- Nausea and vomiting
- Muscle cramps
- Fatigue



https://short.npru.ac.th/av3



Physical Exam

- signs and symptoms
- · Blood tests: CBC, BUN, Cr., Electrolyte, cholesterol
- Urine tests
- Kidney biopsy



Treatment

- Antihypertensive drug
- Diuretic
- · Corticosteroid, immunosuppressive
- Dietary restriction: LP,LS
- Dialysis in severe case
- Kidney transplant

Nursing diagnosis



- Ineffective breathing pattern related to the inflammatory process.
- Excess fluid volume related to edema resulting from oncotic fluid shift caused by serum protein loss and renal retention of salt and water
- Imbalanced nutrition less than body requirements related to anorexia, nausea, vomiting.









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