



# **Hong Kong College of Surgical Nursing**

## **Higher Surgical Nursing Training: Part B Specialty - Urological Nursing**

### **Curriculum**

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## 1. INTRODUCTION

Higher Urological Nursing Training is conducted for surgical nurses who attempt to advance their clinical knowledge, skills, and practice to a higher level in the spectrum of Surgery. Curriculum of Urological Nursing illustrates the requirement of a surgical nurse to achieve with competency in the advanced clinical practice.

## 2. AIMS

- 2.1 To provide trainees updated specialty knowledge and skills in managing clients with genito-urinary dysfunction so as to provide holistic quality client care to these clients and their relatives. **(Domain 1,2,4,5&6)**
- 2.2 To enhance trainees to take up the extended roles and responsibilities in Urological nursing. **(Domain 1,2,3,4,5,6&7)**

## 3. LEARNING OBJECTIVES

Upon completion of the course, trainees should be able to:

- 3.1 Describe the anatomy, physiology and pathology of genito-urinary system **(Domain 1,2,4,5&6)**
- 3.2 Outline common genito-urinary dysfunction **(Domain 1,2,4,5&6)**
- 3.3 Outline the latest medical and nursing management of patients with genito-urinary dysfunction **(Domain 1,2,3,4,5,6&7)**
- 3.4 Recognize the specific knowledge on the structure and function of urological machine, instruments, accessories & prosthesis **(Domain 1,2,4,5&6)**
- 3.5 Provide specialized care to patients undergoing urological investigation, treatment, and education, for example: uroflowmetry, urodynamic study, video-urodynamic study, prosthesis implantation and sexual counseling, intermittent catheterization, stoma care, continence care. **(Domain 1,2,4,5&6)**
- 3.6 Apply nursing process effectively to patients with genito-urinary dysfunction **(Domain 1,2,3,4,5,6&7)**
- 3.7 Outline radiation hazard and protective measures **(Domain 1,2,4,5&6)**
- 3.8 State the common drugs used in genito-urinary dysfunction and their action and adverse reaction **(Domain 1,2,4&5)**
- 3.9 Act as resource people and consultant to nursing staff **(Domain 1,2,3,4,5)**

**6&7)**

3.10 Promote evidence-based practice (**Domain 1,2,3,4,5,6&7**)

3.11 Apply infection control management effectively during urological investigation, examination and treatment. (**Domain 1,2,3,4,5,6&7**)

#### **4. LANGUAGE MEDIUM**

Both English and Cantonese will be used in class. All written assignments and examination will be in English.

#### **5. COURSE CONTENTS (Total learning hours = 171 hours)**

##### **5.1 Anatomy Physiology & Pathology of the urinary tract system (Domain 1,4,5&6) (Learning hours: 6 hours)**

5.1.1 Applied anatomy, physiology & Pathology of upper urinary tract

5.1.2 Applied anatomy, physiology & Pathology of lower urinary tract

##### **5.2. Renal failure and transplantation (Domain 1,2,4,5,6&7) (Learning hours: 7 hours)**

5.2.1 Integrate and apply advanced clinical knowledge in the pathophysiology of renal replacement therapy

5.2.2 Integrate and apply advanced clinical knowledge with competence in managing clients with renal replacement therapy:

- peritoneal dialysis catheter
- vascular access

5.2.3 Apply advanced clinical knowledge with competence in managing clients with renal transplantation:

- brain death of organ donor
- deceased donor kidney recovery
- organ donation
- preparation and care of a transplant

5.2.4 Integrate and apply advanced clinical knowledge in the pathophysiology of adult and paediatric renal transplantation

5.2.5 Integrate and apply advanced clinical knowledge with competence in managing adult and paediatric renal transplantation

**5.3 Infections and inflammation of the Genitourinary Tract (Domain 1,2,4,5,6&7) (Learning hours: 7 hours)**

5.3.1 Integrate and apply advanced clinical knowledge in the pathophysiology of:

- urinary tract infection & urological infection
- prostatitis and chronic pelvic pain syndrome
- genitourinary tuberculosis, parasitic & fungal infections

5.3.2 Integrate and apply advanced clinical knowledge with competence in managing clients with:

- urinary tract infection & urological infection
- prostatitis and chronic pelvic pain syndrome
- genitourinary tuberculosis, parasitic & fungal infections

**5.4 Lower urinary tract dysfunction (Domain 1,2,4,5,6&7) (Learning hours: 14 hours)**

5.4.1 Integrate and apply advanced clinical knowledge in pathophysiology and manifestations of LUTS

5.4.2 Integrate and apply advanced clinical knowledge with competence in managing clients with LUTS

5.4.3 Integrate and apply advanced clinical knowledge with competence in performing advanced assessment measures:

- Uroflowmetry
- bladder scanning
- urodynamics

5.4.4 Critically analyze and evaluate data, information and ideas related to radiological investigations and laboratory tests

5.4.5 Integrate and apply advanced clinical knowledge in specific pharmacokinetics related to drugs commonly used in management of LUTS

**5.5. Benign Prostatic Hyperplasia (BPH) (Domain 1,2,4,5,6&7) (Learning hours: 14 hours)**

- 5.5.1 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of BPH
- 5.5.2 Integrate and apply advanced clinical knowledge with competence in different management options for BPH
- 5.5.3 Integrate and apply advanced clinical knowledge with competence in managing clients with the following complex condition:
  - acute retention of urine
  - urinary catheter related complications
  - difficult urethral catheterization
  - blockage of urethral catheter
  - post transurethral resection of prostate (TURP) complications
  - TUR syndrome
  - clot retention
  - urethral stricture
  - retention of urine
  - urinary incontinence
  - manual bladder irrigation
  - continuous bladder irrigation
  - urethral catheter traction post TURP

**5.6 Sexual Dysfunction (Domain 1,2,4,5,6&7) (Learning hours: 7 hours)**

- 5.6.1 Integrate and apply advanced clinical knowledge in pathophysiology and manifestations of sexual dysfunction
- 5.6.2 Integrate and apply advanced clinical knowledge with competence in managing clients with sexual dysfunction
- 5.6.3 Integrate and apply advanced clinical knowledge with competence in interpreting of International Index of Erectile Function
- 5.6.4 Integrate and apply advanced clinical knowledge in specific pharmacokinetics related to drugs commonly used in management of sexual dysfunction
- 5.6.5 Critically analyze and evaluate clients' response to advanced treatment modalities, designing and implementing corresponding measures

**5.7 Paediatric Urology (Domain 1,2,4,5,6&7) (Learning hours: 7 hours)**

- 5.7.1 Integrate and apply advanced clinical knowledge in the pathophysiology of:
- paediatric urology
  - voiding dysfunction of paediatric clients
- 5.7.2 Integrate and apply advanced clinical knowledge with competence in managing paediatric clients for:
- urodynamic study
  - urotherapy training
- 5.7.3 Integrate and apply advanced clinical knowledge with competence in managing paediatric clients with:
- bladder dysfunction
  - Incontinence
  - intermittent catheterization

**5.8 Uro-Oncology (Domain 1,2,4,5,6&7) (Learning hours: 18 hours)**

- 5.8.1 Integrate and apply advanced clinical knowledge in the pathophysiology of urological carcinomas:
- kidney cancer & renal tumors
  - penile cancer
  - testicular cancer
  - bladder cancer
  - prostate cancer
- 5.8.2 Critically review the manifestations of various urological carcinomas
- 5.8.3 Integrate and apply advanced clinical knowledge with competence in managing clients receiving the following interventional strategies:
- medication therapy
  - surgical therapy
  - radiation therapy
  - chemotherapy

**5.9 Urinary Lithiasis and Endourology (Domain 1,2,3,4,5,6&7) (Learning hours: 10 hours)**

- 5.9.1 Integrate and apply advanced clinical knowledge in pathophysiology and manifestations of urinary tract stones
- 5.9.2 Integrate and apply advanced clinical knowledge with competence in managing clients with urinary tract stones:
  - extracorporeal shock wave lithotripsy
  - ureterorenoscopic lithotripsy
  - percutaneous nephrolithotomy
  - open / laparoscopic renal / ureteric stone surgery
- 5.9.3 Integrate and apply advanced clinical knowledge with competence in managing clients with the following complex condition:
  - stone impaction
  - revision or removal of double J ureteral catheter
- 5.9.4 Apply advanced treatment modalities and evaluate clients' responses to the therapies

**5.10 Female Urology (Domain 1,2,4,5,6&7) (Learning hours: 8 hours)**

- 5.10.1 Integrate and apply advanced clinical knowledge in the pathophysiology of female urology and female pelvic organ prolapse
- 5.10.2 Critically review the manifestations of different level of pelvic organ prolapse
- 5.10.3 Integrate and apply advanced clinical knowledge with competence in managing clients with conditions:
  - urinary incontinence
  - pelvic organ prolapse
  - chronic pelvic pain syndrome

**5.11 Neuro-urology and Continence care (Domain 1,2,3,4,5,6&7) (Learning hours: 12 hours)**

- 5.11.1 Integrate and apply advanced clinical knowledge in the pathophysiology of spinal cord injuries and neurogenic bladder
- 5.11.2 Critically review the manifestations of spinal cord injuries, neurogenic bladder and bowel dysfunction and exercise appropriate judgement in complex care planning
- 5.11.3 Integrate and apply advanced clinical knowledge with competence in managing clients with conditions:
  - neurogenic bladder dysfunction
  - neurogenic bowel dysfunction
  - overactive bladder
  - urinary and feacal incontinence
- 5.11.4 Critically analyze and evaluate clients response to advanced treatment modalities, designing and implementing corresponding measures

**5.12 Advanced Nursing roles in Urology (Domain 1,2,3,4,5,6&7) (Learning hours: 3 hours)**

- 5.12.1 Nurses-led prostate clinic
- 5.12.2 Nurse-led microscopic haematuria clinic
- 5.12.3 Global trend on urology nurse led clinic

**5.13 Others (Domain 1,2,3,4,5,6&7)**

- 5.13.1 Diet and urological disease **(Learning hours: 2 hours)**
- 5.13.2 Infection control in urology **(Learning hours: 3 hours)**
- 5.13.3 Urological trauma **(Learning hours: 3 hours)**
- 5.13.4 Urological emergencies **(Learning hours: 3 hours)**
- 5.13.5 Lasers and laser safety **(Learning hours: 2 hours)**
- 5.13.6 Occupational safety & health in urology practice **(Learning hours: 2 hours)**
- 5.13.7 X-ray & radiological safety **(Learning hours: 2 hours)**
- 5.13.8 Urological implants & prosthesis & male perineal sling **(Learning hours: 2 hours)**
- 5.13.9 Nursing care of urological implants & prosthesis **(Learning hours:**

- 2 hours)**
- 5.13.10 Transitional Care Model for urological diseases **(Learning hours: 2 hour)**
  - 5.13.11 Transitional Care Model for urological diseases-home care **(Learning hours: 1 hour)**
  - 5.13.12 Evidence-based practice in urological nursing **(Learning hours: 3 hours)**
  - 5.13.13 Modern wound management **(Learning hours: 2 hours)**
  - 5.13.14 Pain management for urological patients-nursing perspectives **(Learning hours: 2 hours)**
  - 5.13.15 Pain management for urological patients-medical perspectives **(Learning hours: 2 hours)**
  - 5.13.16 Urological problems related to smoking or secondhand smoke exposure & smoking cessation intervention **(Learning hours: 2 hours)**
  - 5.13.17 Cystic diseases of the kidney, urethral stricture & diverticula **(Learning hours: 3 hours)**
  - 5.13.18 Prostatitis **(Learning hours: 2 hours)**
- 5.14** Miscellaneous
- 5.14.1 Tutorial / Debate sessions / Case sharing & structured presentation **(Learning hours: 6 hours)**
  - 5.14.2 Briefing on clinical Practicum **(Learning hours: 1 hour)**
  - 5.14.3 Skills workshop & Group project presentation **(Learning hours: 7 hours)**
  - 5.14.4 Mini Clinical Evaluation Exercise (Mini-CEX) **(Learning hours: 3 hours)**
  - 5.14.5 Urology Core specialty evaluation **(Learning hours: 1 hour)**

## 6. RELATIONSHIP BETWEEN CURRICULUM AND DOMAIN OF COMPETENCE FRAMEWORK

		Domains						
		I	II	III	IV	V	VI	VII
<b>A. Anatomy &amp; Physiology of the urinary tract</b>								
1	Applied anatomy & physiology of upper urinary tract	✓			✓	✓	✓	
2	Applied anatomy & physiology of lower urinary tract	✓			✓	✓	✓	
<b>B. Renal failure and transplantation</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology of renal replacement therapy	✓			✓	✓	✓	
2	Integrate and apply advanced clinical knowledge with competence in managing clients with renal replacement therapy:							
	a. peritoneal dialysis catheter	✓			✓	✓	✓	
	b. vascular access	✓			✓	✓	✓	
3	Apply advanced clinical knowledge with competence in managing Integrate clients with renal transplantation:							
	a. brain death of organ donor	✓			✓	✓	✓	
	b. deceased donor kidney recovery	✓			✓	✓	✓	
	c. organ donation	✓			✓	✓	✓	
	d. preparation and care of a transplant	✓			✓	✓	✓	
4	Integrate and apply advanced clinical knowledge in the pathophysiology of adult and paediatric renal transplantation	✓			✓	✓	✓	
5	Integrate and apply advanced clinical knowledge with competence in managing adult and paediatric renal transplantation	✓	✓		✓	✓	✓	✓
<b>C. Infections and inflammation of the Genitourinary Tract</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology of:							
	a. urinary tract infection & urological infection	✓			✓	✓	✓	
	b. prostatitis and chronic pelvic pain syndrome	✓			✓	✓	✓	
	c. genitourinary tuberculosis, parasitic & fungal infections	✓			✓	✓	✓	

		Domains						
		I	II	III	IV	V	VI	VII
2	Integrate and apply advanced clinical knowledge with competence in managing clients with:	✓			✓	✓	✓	
	a. urinary tract infection & urological infection	✓			✓	✓	✓	
	b. prostatitis and chronic pelvic pain syndrome	✓			✓	✓	✓	
	c. genitourinary tuberculosis, parasitic & fungal infections	✓			✓	✓	✓	
<b>D. Lower urinary tract dysfunction</b>								
1	Integrate and apply advanced clinical knowledge in pathophysiology and manifestations of LUTS	✓			✓	✓	✓	
2	Integrate and apply advanced clinical knowledge with competence in managing clients with LUTS	✓	✓	✓	✓	✓	✓	✓
3	Integrate and apply advanced clinical knowledge with competence in performing advanced assessment measures	✓			✓	✓	✓	
	a. uroflowmetry	✓			✓	✓	✓	
	b. bladder scanning	✓			✓	✓	✓	
	c. urodynamics	✓			✓	✓	✓	
4	Critically analyze and evaluate data, information and ideas related to radiological investigations and laboratory tests	✓			✓	✓	✓	
5	Integrate and apply advanced clinical knowledge in specific pharmacokinetics related to drugs commonly used in management of LUTS	✓			✓	✓	✓	
<b>E. Benign Prostatic Hyperplasia</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of BPH	✓			✓	✓	✓	
2	Integrate and apply advanced clinical knowledge with competence in different management options for BPH	✓			✓	✓	✓	
3	Integrate and apply advanced clinical knowledge with competence in managing clients with the following complex condition:							
	a. acute retention of urine	✓			✓	✓	✓	

		Domains						
		I	II	III	IV	V	VI	VII
	b. urinary catheter related complications	✓			✓	✓	✓	
	c. difficult urethral catheterization	✓			✓	✓	✓	
	d. blockage of urethral catheter	✓			✓	✓	✓	
	e. post transurethral resection of prostate (TURP) complications	✓			✓	✓	✓	
	f. TUR syndrome	✓			✓	✓	✓	
	g. clot retention	✓			✓	✓	✓	
	h. urethral stricture	✓			✓	✓	✓	
	i. retention of urine	✓			✓	✓	✓	
	j. urinary incontinence	✓			✓	✓	✓	
	k. manual bladder irrigation	✓			✓	✓	✓	
	l. continuous bladder irrigation	✓			✓	✓	✓	
	m. urethral catheter traction post TURP	✓			✓	✓	✓	
<b>F. Sexual Dysfunction</b>								
1	Integrate and apply advanced clinical knowledge in pathophysiology and manifestations of sexual dysfunction	✓			✓	✓	✓	
2	Integrate and apply advanced clinical knowledge with competence in managing clients with sexual dysfunction	✓			✓	✓	✓	
3	Integrate and apply advanced clinical knowledge with competence in interpreting of International Index of Erectile Function	✓	✓	✓	✓	✓	✓	✓
4	Integrate and apply advanced clinical knowledge in specific pharmacokinetics related to drugs commonly used in management of sexual dysfunction	✓	✓		✓	✓		✓
5	Critically analyze and evaluate clients' response to advanced treatment modalities for sexual dysfunction, designing and implementing corresponding measures	✓	✓		✓	✓		✓
<b>G. Paediatric Urology</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology of: paediatric urology	✓			✓	✓	✓	
	voiding dysfunction of paediatric clients	✓			✓	✓	✓	

		Domains						
		I	II	III	IV	V	VI	VII
2	Integrate and apply advanced clinical knowledge with competence in managing paediatric clients for:							
	a. urodynamic study	✓			✓	✓	✓	
	b. urotherapy training	✓			✓	✓	✓	
3	Integrate and apply advanced clinical knowledge with competence in managing paediatric clients with:							
	a. bladder dysfunction	✓			✓	✓	✓	
	b. incontinence	✓			✓	✓	✓	
	c. intermittent catheterization	✓			✓	✓	✓	
<b>H. Uro-Oncology</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology of urological carcinomas:							
	a. kidney cancer & renal tumors	✓	✓		✓	✓	✓	✓
	b. penile cancer	✓	✓		✓	✓	✓	✓
	c. testicular cancer	✓	✓		✓	✓	✓	✓
	d. bladder cancer	✓	✓		✓	✓	✓	✓
	e. prostate cancer	✓	✓		✓	✓	✓	✓
2	Critically review the manifestations of various urological carcinomas	✓	✓		✓	✓	✓	✓
3	Integrate and apply advanced clinical knowledge with competence in managing clients receiving the following interventional strategies:							
	medication therapy	✓	✓		✓	✓	✓	✓
	surgical therapy	✓	✓		✓	✓	✓	✓
	radiation therapy	✓	✓		✓	✓	✓	✓
	chemotherapy	✓	✓		✓	✓	✓	✓
<b>I. Urinary Lithiasis and Endourology</b>								
1	Integrate and apply advanced clinical knowledge in pathophysiology and manifestations of urinary tract stones	✓			✓	✓	✓	

		Domains						
		I	II	III	IV	V	VI	VII
2	Integrate and apply advanced clinical knowledge with competence in managing clients with urinary tract stones: extracorporeal shock wave lithotripsy	✓			✓	✓	✓	
	ureterorenoscopic lithotripsy	✓			✓	✓	✓	
	percutaneous nephrolithotomy	✓			✓	✓	✓	
	open / laparoscopic renal / ureteric stone surgery	✓			✓	✓	✓	
3	Integrate and apply advanced clinical knowledge with competence in managing clients with the following complex condition: a. stone impaction	✓			✓	✓	✓	
	b. revision or removal of JJ	✓			✓	✓	✓	
4	Apply advanced treatment modalities and evaluate clients' responses to the therapies	✓			✓	✓	✓	
<b>J. Female Urology</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology of female urology and female pelvic organ prolapse	✓			✓	✓	✓	
2	Critically review the manifestations of different level of pelvic organ prolapse	✓			✓	✓	✓	
3	Integrate and apply advanced clinical knowledge with competence in managing clients with conditions: urinary incontinence	✓			✓	✓	✓	
	pelvic organ prolapse	✓			✓	✓	✓	
	chronic pelvic pain syndrome	✓			✓	✓	✓	
<b>K. Neuro-urology and Continence care</b>								
1	Integrate and apply advanced clinical knowledge in the pathophysiology of spinal cord injuries and neurogenic bladder	✓	✓	✓	✓	✓	✓	✓
2	Critically review the manifestations of spinal cord injuries, neurogenic bladder and bowel dysfunction and exercise appropriate judgement in complex care planning	✓	✓	✓	✓	✓	✓	✓

	<b>Domains</b>
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		I	II	III	IV	V	VI	VII
3	Integrate and apply advanced clinical knowledge with competence in managing clients with conditions:							
	a. neurogenic bladder dysfunction	✓	✓	✓	✓	✓	✓	✓
	b. neurogenic bowel dysfunction	✓	✓	✓	✓	✓	✓	✓
	c. overactive bladder	✓	✓	✓	✓	✓	✓	✓
	d. urinary and fecal incontinence	✓	✓	✓	✓	✓	✓	✓
4	Critically analyze and evaluate clients response to advanced treatment modalities, designing and implementing corresponding measures	✓	✓	✓	✓	✓	✓	✓
<b>L. Advanced Nursing roles in Urology</b>								
1	Nurses-led prostate clinic	✓	✓	✓	✓	✓	✓	✓
2	Nurse-led microscopic haematuria clinic	✓	✓	✓	✓	✓	✓	✓
3	Global trend on urology nurse led clinic	✓	✓	✓	✓	✓	✓	✓
<b>M. Others</b>								
1	Diet and urological disease	✓			✓	✓	✓	
2	Infection control in urology	✓			✓	✓	✓	
3	Urological trauma	✓			✓	✓	✓	
4	Urological emergencies	✓			✓	✓	✓	
5	Lasers and laser safety	✓			✓	✓	✓	
6	Occupational safety & health in urology practice	✓			✓	✓	✓	
7	X-ray & radiological safety	✓			✓	✓	✓	
8	Urological implants & prosthesis & male perineal sling	✓			✓	✓	✓	
9	Nursing care of urological implants & prosthesis	✓	✓		✓	✓	✓	
10	Transitional Care Model for urological diseases	✓	✓	✓	✓	✓	✓	
11	Transitional Care Model for urological diseases-home care	✓	✓		✓	✓	✓	✓
12	Evidence-based practice in urological nursing	✓	✓	✓	✓	✓	✓	✓
13	Modern wound management	✓			✓	✓	✓	✓
14	Pain management for urological patients-nursing perspectives	✓	✓	✓	✓	✓	✓	

		Domains						
		I	II	III	IV	V	VI	VII
15	Pain management for urological patients-medical perspectives	✓	✓	✓	✓	✓	✓	✓
16	Urological problems related to smoking or secondhand smoke exposure & smoking cessation intervention	✓	✓	✓	✓	✓	✓	✓
17	Cystic diseases of the kidney, urethral stricture & diverticula	✓			✓	✓	✓	
18	Prostatitis	✓			✓	✓	✓	

**7. SUMMARY OF LEARNING HOURS**

<b>Item</b>	<b>Specialty</b>	<b>Hours</b>
1	Anatomy Physiology & Pathology of the urinary tract system	6 hours
2	Renal failure and transplantation	7 hours
3	Infections and inflammation of the Genitourinary Tract	7 hours
4	Lower urinary tract dysfunction	14 hours
5	Benign Prostatic Hyperplasia (BPH)	14 hours
6	Sexual Dysfunction	7 hours
7	Paediatric Urology	7 hours
8	Uro-Oncology	18 hours
9	Urinary Lithiasis and Endourology	10 hours
10	Female Urology	8 hours
11	Neuro-urology and Continence care	12 hours
12	Advanced Nursing roles in Urology	3 hours
13	Others	40 hours
14	Miscellaneous	18 hours
	<b>TOTAL</b>	<b>171 hours</b>

## **8. REFERENCES**

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