



Hong Kong College of Surgical Nursing

Higher Surgical Nursing Training: Part B Specialty - Surgical Nursing

Curriculum

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1. Introduction

Higher Surgical 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. Core Curriculum of Advanced Surgical Nursing illustrates the requirement of a surgical nurse to achieve with competency in the advanced clinical practice.

1.1 Aims

- 1.1.1 To provide participants an updated specialty knowledge and skills in managing clients with surgical problems so as to provide holistic quality client care to the clients and their relatives (*Domain 1, 2, 4, 5 & 6*).
- 1.1.2 To enhance participants to take up the extended roles and responsibilities in the advanced surgical nursing (*Domain 1, 2, 3, 4, 5, 6 & 7*).

1.2 Learning Objectives

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

- 1.2.1 Describe the anatomy, physiology and pathology of surgical related system (*Domain 1, 2, 4, 5 & 6*).
- 1.2.2 Outline the common surgical related investigation and management (*Domain 1, 2, 4, 5 & 6*).
- 1.2.3 Outline the latest medical and nursing management of patients with surgical problems (*Domain 1, 2, 3, 4, 5, 6 & 7*).
- 1.2.4 Integrate knowledge, skills, and management of surgical disease in the planning of care of surgical setting (*Domain 1, 2, 4, 5 & 6*).
- 1.2.5 Implement holistic care by providing specialized care to patients undergoing surgical investigation, treatment, and education (*Domain 1, 2, 4, 5 & 6*).
- 1.2.6 Evaluate the outcome of care provided and modify the interventions as necessary (*Domain 1, 2, 3, 4, 5, 6 & 7*).
- 1.2.7 State the common drugs used in surgical related diseases, their actions and adverse reactions (*Domain 1, 2, 4 & 5*).
- 1.2.8 Act as resource person and consultant to the nursing staff (*Domain 1, 2, 3, 4, 5, 6 & 7*).
- 1.2.9 Promote evidence-based practice (*Domain 1, 2, 3, 4, 5, 6 & 7*).
- 1.2.10 Demonstrate accountability and flexibility when working in partnership with members of the multidisciplinary team (*Domain 1, 2, 3, 4, 5, 6 & 7*).

1.3 Language Medium

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

2. Course Content

2.1 Core Clinical Knowledge and Skills in Advanced Surgical Nursing (5 hours)

Core Clinical Knowledge and Skills in Advanced Surgical Nursing are to be applied and shared across all surgical specialties. Advanced Surgical Nurses will be competent in caring clients upon the completion of the clinical knowledge and skills:

- 2.1.1 Integrate and apply advanced clinical knowledge and skills in the common acute surgical conditions.
- 2.1.2 Integrate and apply advanced clinical knowledge and skills in the latest wound management.
- 2.1.3 Integrate and apply clinical findings in various pre-operative and post-operative surgical condition.
- 2.1.4 Critically analyze, evaluate and interpret data, information, and results related to the radiological, pathological and laboratory investigations.
- 2.1.5 Integrate and apply advanced clinical knowledge in the Surgical Outcomes Monitoring and Quality Improving Program (SOMIP).
- 2.1.6 Integrate and apply advanced clinical knowledge and skills in Pain management in surgical clients.
- 2.1.7 Integrate and apply advanced clinical knowledge and skills in client empowerment.
- 2.1.8 Integrate and apply advanced knowledge and skills in the epidemiology, infection control measures, and Surveillance of Surgical Site Infection (SSI).
- 2.1.9 Integrate and apply advanced clinical knowledge and skills in the End of Life care in surgical clients.
- 2.1.10 Integrate and apply advanced knowledge and skills in evidence base practice in Surgical Nursing
- 2.1.11 Integrate and apply advanced clinical knowledge and skills in the psychosocial care and management of surgical clients.
- 2.1.12 Critically review various surgical nursing services such as Pre-admission Service, Day Surgery, Nurse Clinic, and Ambulatory Care.

2.2 Advanced Clinical Knowledge and Skills in Surgical Specialties

There are total 14 Specialties in Surgery. Each Specialty carries its own specific knowledge, skills and care management.

2.2.1 Specialty of Breast Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Breast diseases upon the completion of the following:

- 2.2.1.1 Applied anatomy and physiology of breast structure.
- 2.2.1.2 Integrate and apply advanced clinical knowledge in managing clients with breast imaging and investigation:
 - Ultrasound
 - Mammography
 - Computed Tomography
 - Magnetic Resonance Imaging
 - Fine needle aspiration
 - Core biopsy
 - Excision
- 2.2.1.3 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestation of breast disease and its interventions:
 - Breast pain (Mastalgia)
 - Swelling and inflammation, breast abscess
 - Fibroadenoma
 - Ductal carcinoma in-situ (DCIS)
 - Lobular carcinoma in-situ (LCIS)
 - Invasive carcinoma
- 2.2.1.4 Integrate and apply advanced clinical knowledge and skills in managing clients undergo the following interventions:
 - Breast conserving surgery
 - Mastectomy
 - Axillary surgery
 - Modified radical mastectomy
 - Breast reconstruction surgery
 - Hormonal therapy
 - Chemotherapy
 - Radiotherapy
 - Targeted Therapy
- 2.2.1.5 Critically analyze and evaluate client's response and implement corresponding breast awareness screening measures.

2.2.2 Specialty of Burn and Plastic Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Burn and Plastic upon the completion of the following:

- 2.2.2.1 Applied anatomy, physiology and function of skin.
- 2.2.2.2 Applied pathophysiology of burn injury:
 - Initial and delayed pathophysiology
 - Metabolic response to severe burn injury
 - Different depths of burn wound
- 2.2.2.3 Integrate and apply advanced clinical knowledge and skills in the assessment of burn injury:
 - Flame burns
 - Scald burns
 - Chemical burns
 - Electrical burns
 - Burns to high risk areas
- 2.2.2.4 Integrate and apply advanced clinical knowledge in wound healing process.
- 2.2.2.5 Integrate and apply advanced clinical knowledge and skills in burns management, prevention of complications, and plastic surgery.
- 2.2.2.6 Integrate and apply advanced clinical knowledge and skills in initial management of burn injury:
 - Airway and pulmonary management
 - Initial maintenance of hemodynamic stability
- 2.2.2.7 Integrate and apply advanced clinical knowledge and skills in surgical management:
 - Burn wound management
 - Management of hypertrophic scar
- 2.2.2.8 Integrate and apply advanced clinical knowledge and skills on pain management in burn client.
- 2.2.2.9 Integrate and apply advanced clinical knowledge and skills on Infection control in burn client.
- 2.2.2.10 Integrate and apply advanced clinical knowledge and skills on the latest wound care and dressing technique in burn client.
- 2.2.2.11 Integrate and apply advanced clinical knowledge and skills on nutritional support in acute burn patients:
 - Major metabolic abnormalities
 - Tube feeding and total parental nutrition
- 2.2.2.12 Critically review the Burn Services in Hong Kong:
 - Update epidemiology of Burn incidence in Hong Kong
 - Understand the transfer criteria to the Burn Unit and Burn Facilities in Hong Kong

2.2.3 Specialty of Cardiothoracic Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Cardiothoracic diseases upon the completion of the following:

- 2.2.3.1 Applied anatomy and physiology of cardiovascular and respiratory system.
- 2.2.3.2 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing cardiothoracic investigations:
 - Cardiac catheterization
 - Coronary angiography
- 2.2.3.3 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing Respiratory investigations:
 - Lung function test
 - Bronchoscopy
 - Lung tissue biopsy
 - Fine needle aspiration
 - Endobronchial Ultrasound (EBUS) Biopsy
- 2.2.3.4 Integrate and apply advanced clinical knowledge and skills in nursing assessment of the cardiovascular and respiratory system.
- 2.2.3.5 Integrate and apply advanced clinical knowledge in the interpretation of electrocardiography (ECG).
- 2.2.3.6 Critically analyze and evaluate data, information and report related to lung function and cardiac function test.
- 2.2.3.7 Integrate and apply advanced clinical knowledge in the pathophysiology of cardiovascular disorder and its related surgical interventions.
- 2.2.3.8 Integrate and apply advanced clinical knowledge and skills in managing clients with:
 - Heart failure and cardiogenic shock
 - Dissecting aneurysm and aneurysm of aorta
 - Cardiac trauma / injury
- 2.2.3.9 Integrate and apply advanced clinical knowledge in the pathophysiology of thoracic disorder and acute respiratory diseases, and its related surgical interventions.
- 2.2.3.10 Integrate and apply advanced clinical knowledge and skills in managing clients with:
 - Lung cancer
 - Lung trauma / injury
 - Pulmonary embolism
- 2.2.3.11 Integrate and apply advanced clinical knowledge and skills in managing clients receiving the following thoracic intervention:
 - Mechanical ventilation
 - Lobectomy
 - Pneumonectomy
 - Pleurodesis

2.2.4 Specialty of Ear, Nose & Throat Care / Head & Neck Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Ear, Nose & Throat and Head & Neck diseases upon the completion of the following:

- 2.2.4.1 Applied anatomy and physiology of Ear, Nose, and Throat.
- 2.2.4.2 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of Ear disease:
 - Acute otitis media
 - Chronic otitis media
 - Chronic suppurative otitis media
- 2.2.4.3 Integrate and apply advanced clinical knowledge and skills in performing advanced hearing assessment, audiology test, and procedures
- 2.2.4.4 Integrate and apply advanced clinical knowledge and skills in managing clients receiving the following ear surgery:
 - Myringotomy and insertion of grommet
 - Myringoplasty or Tympanoplasty
 - Mastoidectomy
 - Cochlear Implant
- 2.2.4.5 Integrate and apply advanced clinical knowledge in the specific pharmacokinetics related to medication commonly used in the management of ear disease.
- 2.2.4.6 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of nose disease:
 - Allergic rhinitis
 - Nasal polyp
 - Fracture nasal bone
 - Epistaxis
 - Obstructive sleep apnoea
 - Sinusitis
- 2.2.4.7 Integrate and apply advanced clinical knowledge and skills in performing nasal assessment and procedures:
 - Nasal douching
 - Administration of nasal spray and nasal drops
- 2.2.4.8 Integrate and apply advanced clinical knowledge in specific pharmacokinetics related to medication commonly used in management of nasal disease.
- 2.2.4.9 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of Laryngeal/Hypopharyngeal:
 - Epiglottitis
 - Croup
 - Laryngitis

- Vocal Cord Polyps
 - Stridor
 - Hoarseness
 - Enlargement of tonsil in Paediatric
 - Obstructive sleep apnoea in Paediatric
- 2.2.4.10 Integrate and apply advanced clinical knowledge and skills in managing clients with the following complex condition:
- Tonsillectomy
 - Tracheostomy
- 2.2.4.11 Integrate and apply advanced clinical knowledge and skills in managing clients receiving the following interventional strategies for larynx:
- Medication therapy
 - Surgical therapy
 - Radiation therapy
 - Chemotherapy
- 2.2.4.12 Integrate and apply advanced clinical knowledge and skills in managing clients with post-operative management and rehabilitation:
- Tracheostoma
 - Speech therapy for patient with voice disorder
- 2.2.4.13 Applied anatomy and physiology of Head and Neck of the human body.
- 2.2.4.14 Integrate and apply advanced clinical knowledge and skills in managing the pathophysiology and manifestations of Infections and inflammation of Oral, Nasopharyngeal, and Neck:
- Pharyngitis
 - Oropharyngitis
 - Laryngitis
 - Deep neck infection
- 2.2.4.15 Integrate and apply advanced clinical knowledge and skills in managing the pathophysiology and manifestations of Head and Neck diseases:
- Cervical adenopathy
 - Thyroid disease
 - Thyroid glossal duct cyst
 - Congenital neck masses
 - Malformations hemangioma
 - Rhabdomyosarcoma
 - Maxillofacial trauma
- 2.2.4.16 Integrate and apply advanced clinical knowledge and skills in managing the pathophysiology and manifestations of head and neck carcinomas:
- Nasopharyngeal cancer
 - Oropharyngeal cancer

- Paranasal sinus cancer
- Salivary gland cancer
- Thyroid cancer
- Parathyroid cancer

2.2.4.17 Integrate and apply advanced clinical knowledge and skills in managing clients with the complex condition:

- Maxillectomy
- Laryngectomy
- Thyroidectomy
- Parathyroidectomy

2.2.4.18 Integrate and apply advanced clinical knowledge and skills in managing clients with specific post-operative care and rehabilitation:

- Airway emergency
- Transitional Care Model for Head and Neck diseases-home care

2.2.5 Specialty of Gastrointestinal Care / Colorectal Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Gastrointestinal and Colorectal diseases upon the completion of the following:

- 2.2.5.1 Applied anatomy and physiology of upper and lower gastrointestinal tract.
- 2.2.5.2 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing gastrointestinal investigations and assessment:
 - a. Endoscopic Procedures:
 - OGD
 - Sigmoidoscopy
 - Colonoscopy
 - Proctoscopy
 - Capsule Enteroscopy
 - b. Radiological Procedures:
 - Barium meal + Follow through
 - Barium Enema
 - Computerized Tomography (CT) Scan
 - X-ray Chest / abdomen
 - USG Abdomen
 - Transrectal USG (TRUS)
 - Gastric USG (EUS)
 - Positron emission tomography (PET) scan
 - Angiogram
- 2.2.5.3 Integrate and apply advanced clinical knowledge and skills in conducting nursing assessment of the upper gastrointestinal tract.
- 2.2.5.4 Integrate and apply advanced clinical knowledge in the pathophysiology of Upper Gastrointestinal Tract disorders and its surgical interventions.
- 2.2.5.5 Integrate and apply advanced clinical knowledge in the pathophysiology of oesophageal, gastric & duodenal disorder and its related intervention:
 - Motility disorder
 - Oesophageal injury
 - Inflammation and ulcer: peptic/duodenal/perforated ulcer with bleeding
 - Oesophageal tumors
 - Gastric tumors
 - Gastroesophageal reflux disease (GERD)

- 2.2.5.6 Integrate and apply advanced clinical knowledge in managing clients receiving the following interventions:
- Systemic chemotherapy / regional intra-arterial chemotherapy
 - Radiotherapy
 - Concurrent chemotherapy and radiotherapy
 - Dilation
 - Intubation / Prosthesis insertion
 - Oesophageal resection
 - Gastric & duodenal resection
 - Gastrostomy & jejunostomy
- 2.2.5.7 Integrate and apply advanced clinical knowledge and skills in managing clients with PEG & tube feeding.
- 2.2.5.8 Integrate and apply advanced clinical knowledge in the pathophysiology of Lower Gastrointestinal Tract and its surgical interventions.
- 2.2.5.9 Integrate and apply advanced clinical knowledge in the pathophysiology of colorectal cancer and its related interventions:
- Colonic tumour
 - Rectal tumour
- 2.2.5.10 Integrate and apply advanced clinical knowledge in the pathophysiology of colorectal disorder and its related intervention:
- Ulcerative colitis and Crohn's disease
 - Diverticular disease
 - Sigmoid volvulus
 - Colorectal polyps
 - Haemorrhoid
 - Perianal abscess
 - Fistula in ano
 - Anal fissure
 - Rectal prolapse
 - Anorectal dysfunction eg. Faecal incontinence, constipation
 - Radiation Enteritis
 - Ischemic Colitis / Ulcerative Colitis
 - Angiodysplasia
- 2.2.5.11 Integrate and apply advanced clinical knowledge in managing clients receiving interventions:
- Medication Therapy
 - Surgical Therapy
 - Radiation Therapy
 - Chemotherapy
 - Brachytherapy

2.2.6 Specialty of Gynaecology Care (13 hours)

The Advanced Surgical Nurse will be competent in caring patients with Gynaecology diseases upon the completion of the following:

- 2.2.6.1 Applied anatomy and physiology of gynaecological system.
- 2.2.6.2 Integrate and apply advanced clinical knowledge in the pathophysiology of gynaecological disorders and its management:
 - Cancer and pre-cancerous diseases of the reproductive organs including ovaries, fallopian tubes, uterus, cervix, vagina, and vulva
 - Menstrual dysfunction: Amenorrhea (absent menstrual periods)/ Dysmenorrhea (painful menstrual periods)/ Menorrhagia / Menopause
 - Pelvic Inflammatory Disease e.g. Sexually transmitted infections/ Infections of the vagina (vaginitis), cervix and uterus (including fungal, bacterial, viral, and protozoal)
- 2.2.6.3 Integrate and apply advanced clinical knowledge and skills in managing clients receiving gynaecological assessment:
 - Pap smear
 - HPV screening
 - Colposcopy and Cervical Pathology
- 2.2.6.4 Integrate and apply advanced clinical knowledge in managing clients undergoing gynaecological operations:
 - Dilation and curettage
 - Hysterectomy
 - Oophorectomy
 - Tubal ligation
 - Hysteroscopy
 - Diagnostic laparoscopy
 - Exploratory laparotomy

2.2.7 Specialty of Hepatobiliary and Pancreatic Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Hepatobiliary diseases upon the completion of the following:

- 2.2.7.1 Applied anatomy and physiology of hepatobiliary and pancreatic system.
- 2.2.7.2 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing hepatobiliary and pancreatic system investigation:
 - Endoscopic Retrograde Cholangiopancreatogram (ERCP)
 - Endoscopic Ultrasound (EUS)
 - Cholangiogram
 - Hepatic angiogram
 - Liver Biopsy
 - Indocyanine green clearance test (ICG)
- 2.2.7.3 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing the procedures:
 - Abdominal tapping
 - Percutaneous Transhepatic Biliary Drainage (PTBD)
 - Percutaneous Cholecystostomy
 - Hepatic embolization / portal vein embolization
 - Sengstaken Tube
- 2.2.7.4 Integrate and apply advanced clinical knowledge and skills in managing the pathophysiology and manifestation of biliary tract and pancreatic disorder:
 - Biliary Atresia
 - Gall stone / Biliary stone
 - Cholangitis
 - Recurrent pyrogenic cholangitis
 - Cholecystitis
 - Gallbladder polyp
 - Cholangiocarcinoma Choledochal cyst
 - Cholangiocarcinoma / Klatskin Tumor
 - Gallbladder tumor
 - Pancreatic cyst
 - Pancreatitis
 - Pancreatic necrosis
 - Pancreatic tumors
 - Neuroendocrine Tumours
 - Intraductal Papillary Mucinous Neoplasia (IPMN)
- 2.2.7.5 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing the treatment and surgical intervention:
 - Open / Laparoscopic Cholecystectomy
 - Hepaticojejunostomy

- Hepaticojejunostomy with a cutaneous stoma
 - Pancreatic surgery:
 - a. Whipple's Operation
 - b. Pylorus Preserving Pancreaticoduodenectomy (PPPD)
 - c. Distal Pancreatectomy (+/- Splenectomy)
 - d. Total Pancreatectomy
- 2.2.7.6 Integrate and apply advanced clinical knowledge and skills in managing the pathophysiology and manifestation of liver disorder:
- Viral hepatitis / drug induced hepatitis
 - Liver cyst, polycystic disease
 - Liver abscess
 - Liver cirrhosis / fatty liver / hepatomegaly
 - Liver failure
 - Portal Hypertension
 - Oesophageal Varices
 - Ascites
 - Hepatic Encephalopathy
 - Intra-hepatic ductal stone & tumor
 - Liver tumor, Benign
 - Liver tumor, Malignant
- 2.2.7.7 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing surgical treatment for liver tumor
- Hepatectomy
 - Liver transplant
- 2.2.7.8 Integrate and apply advanced clinical knowledge and skills in managing clients undergoing non-surgical treatment for liver tumor:
- Transarterial Chemoembolization (TACE) / TACE (DEB)
 - Microwave Radiofrequency ablation (RFA)
 - Microwave ablation (MWA)
 - High intensity focused ultrasound (HIF U)
 - Percutaneous Ethanol Injection (PEI)
 - Chemotherapy
 - Target therapy
 - Radiotherapy

2.2.8 Specialty of Neurosurgical Care (16 hours)

The Advanced Surgical Nurse will be competent in caring clients with Neurosurgical diseases upon the completion of the following:

- 2.2.8.1 Applied anatomy and physiology of neurology system and spinal cord.
- 2.2.8.2 Integrate and apply advanced clinical knowledge in:
 - Identify the specific type of neurological investigation and laboratory test
 - Critically analyze and evaluate data, information and ideas of nursing management of neurological investigation
- 2.2.8.3 Integrate and apply advanced clinical knowledge and skills in managing Head and Spinal Injury:
 - Head injury assessment and investigation
 - Pre-operative and post-operative nursing care of head injury
- 2.2.8.4 Integrate and apply advanced clinical knowledge and skills in managing spinal injury
 - Spinal injury assessment and investigation
 - Pre-operative and post-operative nursing care of spinal injury
- 2.2.8.5 Integrate and apply advanced clinical knowledge and skills in managing Neurovascular diseases:
 - Identify type of neurovascular diseases
 - Implement neurovascular disease assessment and investigation
 - Implement nursing management of neurovascular disease with evident based practice
- 2.2.8.6 Integrate and apply advanced clinical knowledge and skills in pain management:
 - Identify and implement common pain management to neurosurgical patient
 - Integrate and apply advanced clinical knowledge in specific pharmacokinetics related to common drug management to neurosurgical patient
- 2.2.8.7 Integrate and apply advanced clinical knowledge in Anaesthesia for neurosurgery:
 - Type of Anaesthesia for Neurosurgery client
 - Anaesthesia effect to post neurosurgery client
- 2.2.8.8 Integrate and apply advanced clinical knowledge and skills in managing client for post neurosurgery rehabilitation program.

2.2.9 Specialty of Ophthalmology Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Ophthalmology diseases upon the completion of the following:

- 2.2.9.1 Applied anatomy and physiology of the human eye.
- 2.2.9.2 Integrate and apply advanced clinical knowledge in the pathophysiology of common eye disorders and principles of management:
 - Disorders of eyelid, lacrimal system and orbit
 - Disorders of conjunctiva
 - Disorders of sclera, cornea, iris and ciliary body
 - Disorders of lens
 - Disorders of choroid and retina
 - Visual disturbances and blindness
- 2.2.9.3 Integrate and apply advanced clinical knowledge and skills in managing clients with common ophthalmology conditions:
 - Red eye
 - Eye infection
 - Eye trauma / injury
- 2.2.9.4 Integrate and apply advanced clinical knowledge and skills in managing clients with optometric and orthoptic assessment.
- 2.2.9.5 Integrate and apply advanced clinical knowledge and skills in managing clients receiving eye operations:
 - Cataract surgery
 - Glaucoma surgery
- 2.2.9.6 Integrate and apply advanced clinical knowledge and skills in managing clients with ocular manifestations of systemic disease:
 - Diabetic retinopathy
- 2.2.9.7 Integrate and apply advanced clinical knowledge and skills in managing clients with visual impairment.
- 2.2.9.8 Integrate and apply advanced clinical knowledge and skills in managing clients with ophthalmic emergency.

2.2.10 Specialty of Organ Donation (10 hours)

The Advanced Surgical Nurse will be competent in caring clients with Organ Donation upon the completion of the following:

- 2.2.10.1 Apply advanced knowledge of Brain Death in organ donation:
 - Determination of human death and advancing life support
 - Pathophysiology of brain death
 - Diagnosis and confirmation of brain death
- 2.2.10.2 Apply advanced clinical knowledge in the physiological support of potential organ donor
- 2.2.10.3 Understand the role of transplant coordinator and transplant coordination service
 - Identified potential donor and make referrals
 - Care and preservation of organs
 - End-of-life care
 - Donor's families management
- 2.2.10.4 Apply advanced clinical knowledge with competence in managing grief and bereavement in organ donation

2.2.11 Specialty of Stoma and Wound Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Stoma and Wound upon the completion of the following:

- 2.2.11.1 Applied anatomy and physiology of integumentary system.
- 2.2.11.2 Applied anatomy and physiology of wound healing.
- 2.2.11.3 Integrate and apply advanced clinical knowledge in identifying types of Stoma and able to interpret the following:
 - Indication of the stoma to client
 - Characteristic of stoma to client
 - Indication for closure of stoma to client
- 2.2.11.4 Integrate and apply advanced clinical knowledge and skills in pre-operative assessment and preparation for stoma formation.
- 2.2.11.5 Integrate and apply advanced clinical knowledge and skills in post-operative stoma assessment and care.
- 2.2.11.6 Integrate and apply advanced clinical knowledge and skills in management of stomal and peristomal complication:
 - Identify the complications
 - Identify the reason of complication
 - Prevent and manage complication
- 2.2.11.7 Integrate and apply advanced clinical knowledge in stoma appliance and accessories, and able to:
 - Suggest appropriate stoma product to client
 - Educate the application of stoma products to client
 - Identify and manage the incorrect functioning of stoma product
- 2.2.11.8 Integrate and apply advanced clinical knowledge and skills in management of Surgical wound.
- 2.2.11.9 Integrate and apply advanced clinical knowledge in monitoring Surgical Surveillance System for surgical wound.
- 2.2.11.10 Integrate and apply advanced clinical knowledge and skills in management of fistula and drainage wound:
 - Identify type of fistula and drainage wound
 - Identify the reason of fistula and drainage wound formation
 - Prevent and manage the fistula and drainage wound
- 2.2.11.11 Integrate and apply advanced clinical knowledge and skills in managing pressure injury.

2.2.12 Specialty of Urological Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Urological diseases upon the completion of the following:

- 2.2.12.1 Applied anatomy and physiology of upper and lower urinary tract.
- 2.2.12.2 Integrate and apply advanced clinical knowledge in the pathophysiology of renal failure.
- 2.2.12.3 Integrate and apply advanced clinical knowledge in the pathophysiology of infections and inflammation of the Genitourinary Tract:
 - Urinary tract infection and urological infection
 - Prostatitis and chronic pelvic pain syndrome
 - Genitourinary tuberculosis, parasitic and fungal infections
- 2.2.12.4 Integrate and apply advanced clinical knowledge and skills in the pathophysiology and management of Lower urinary tract dysfunction
- 2.2.12.5 Integrate and apply advanced clinical knowledge and skills in performing advanced assessment measures procedures:
 - Uroflowmetry
 - Bladder scanning
 - Flexible cystoscopy
- 2.2.12.6 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of Benign Prostatic Hyperplasia:
 - Identify different management options for Benign Prostatic Hyperplasia
- 2.2.12.7 Integrate and apply advanced clinical knowledge in the pathophysiology of Uro-oncology
 - Kidney cancer and renal tumors
 - Bladder cancer
 - Prostate cancer
 - Critically review the manifestations of various urological carcinomas
- 2.2.12.8 Integrate and apply advanced clinical knowledge and skills in managing clients receiving the following interventional strategies:
 - Medication therapy
 - Surgical therapy
 - Radiation therapy
 - Chemotherapy
- 2.2.12.9 Integrate and apply advanced clinical knowledge and skills in managing clients with the following complex condition:
 - Stone impaction
 - Revision or removal of JJ

2.2.13 Specialty of Vascular Care (13 hours)

The Advanced Surgical Nurse will be competent in caring clients with Vascular diseases upon the completion of the following:

- 2.2.13.1 Applied anatomy and physiology of arterial and venous system.
- 2.2.13.2 Integrate and apply advanced clinical knowledge in the pathophysiology of abdominal and thoracic aortic aneurysm, and its interventions.
- 2.2.13.3 Integrate and apply advanced clinical knowledge and skills in managing client undergo abdominal and thoracic aortic aneurysm surgeries.
- 2.2.13.4 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of upper and lower limb arterial diseases.
- 2.2.13.5 Integrate and apply advanced clinical knowledge and skills in managing clients with upper and lower limb arterial diseases.
- 2.2.13.6 Integrate and apply advanced clinical knowledge and skills in performing advanced assessment measures:
 - Duplex ultrasound
 - Computed Tomography Angiography
- 2.2.13.7 Integrate and apply advanced clinical knowledge in the specific pharmacokinetics related to drugs commonly used in management of upper and lower limb arterial diseases.
- 2.2.13.8 Integrate and apply advanced clinical knowledge in the pathophysiology and manifestations of lower limb arterial and venous ulcer.
- 2.2.13.9 Integrate and apply advanced clinical knowledge and skills in managing clients with lower limb arterial and venous ulcer.
- 2.2.13.10 Critically analyze and evaluate client's response to advanced treatment modalities, designing and implementing corresponding measures.

3. Advanced Surgical Skills in Various Specialties

	Domain						
	I	II	III	IV	V	VI	VII
Breast care							
1. Applied anatomy & physiology of breast structure	✓	✓	✓	✓	✓	✓	
2. Demonstrate knowledge to interpret the report data with nursing competence in managing patients with various imaging and investigation procedures							
a. Ultrasound	✓	✓	✓	✓	✓	✓	
b. Mammography	✓	✓	✓	✓	✓	✓	
c. Computed tomography	✓	✓	✓	✓	✓	✓	
d. Magnetic Resonance Imaging	✓	✓	✓	✓	✓	✓	
e. Positron Emission Tomography (PET)	✓	✓	✓	✓	✓	✓	
f. Fine needle aspiration	✓	✓	✓	✓	✓	✓	
g. Core biopsy	✓	✓	✓	✓	✓	✓	
3. Demonstrate knowledge and skills in managing patients with benign breast disease and its management							
a. Breast pain (Mastalgia)	✓	✓	✓	✓	✓	✓	
b. Breast abscess	✓	✓	✓	✓	✓	✓	
c. Fibroadenoma	✓	✓	✓	✓	✓	✓	
d. Mastitis	✓	✓	✓	✓	✓	✓	
4. Evaluate patients' response to and implementing corresponding breast awareness screening measures breast disease	✓	✓	✓	✓	✓	✓	✓
5. Demonstrate knowledge skills in managing patients with various malignant breast conditions and its management	✓	✓	✓	✓	✓	✓	✓
6. Demonstrate nursing competence in managing patients with breast cancer operations during hospitalization	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Burn and Plastic Care							
1. Application of pathophysiology of burn injury (Initial & delayed)	✓	✓	✓	✓	✓	✓	
2. Demonstrate knowledge and skills in performing assessment of Burn Injury	✓	✓		✓	✓	✓	✓
3. Demonstrate knowledge and skills in burn management, Prevention of Complications and Plastic Surgery:							
a. Initial management of burn injury	✓	✓	✓	✓	✓	✓	✓
b. Surgical management of burn injury	✓	✓	✓	✓	✓	✓	✓
4. Applied advanced clinical knowledge and skills in nursing client with burn injuries:							
a. Nursing assessment & management	✓	✓	✓	✓	✓	✓	✓
b. Burn wound care management and dressing technique	✓	✓		✓	✓		✓
c. Nutritional support in acute burn patients	✓	✓			✓	✓	✓
d. Infection control issue	✓	✓	✓	✓	✓	✓	✓
e. Patients education and psycho-social impact	✓	✓	✓	✓	✓		✓
5. Understand Burn services networking, epidemiology of burn injury in Hong Kong		✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Cardiothoracic Care							
1. Applied anatomy and physiology of cardiovascular and respiratory system.	✓						
2. Apply advanced clinical knowledge with competence in managing clients undergoing various cardiovascular and respiratory investigations							
a. Cardiac Catheterization	✓	✓		✓	✓	✓	
b. Coronary Angiography	✓	✓		✓	✓	✓	
c. Lung function test	✓	✓		✓	✓	✓	
d. Bronchoscopy	✓	✓		✓	✓	✓	
e. Lung tissue biopsy	✓	✓		✓	✓	✓	
f. Fine needle aspiration	✓	✓		✓	✓	✓	
3. Demonstrate knowledge to interpret the investigation report							
a. Electrocardiography (ECG)	✓	✓		✓	✓	✓	
b. Lung function test	✓	✓		✓	✓	✓	
c. Cardiac function test	✓	✓		✓	✓	✓	
4. Demonstrate knowledge to interpret radiological investigations and laboratory tests	✓				✓		✓
5. Apply advanced clinical knowledge in the pathophysiology of cardiovascular disorder and its related surgical interventions							
a. Heart failure and cardiogenic shock	✓	✓		✓	✓	✓	
b. Dissecting aneurysm and aneurysm of aorta	✓	✓		✓	✓	✓	
6. Demonstrate knowledge and skills with competence in managing clients receiving various cardiovascular interventions	✓	✓		✓	✓	✓	✓
7. Apply advanced clinical knowledge in the pathophysiology of thoracic disorder and acute respiratory diseases, and its related surgical interventions	✓	✓		✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Cardiothoracic Care							
8. Demonstrate advanced clinical knowledge with competence in managing clients with respiratory disorders							
a. Lung cancer	✓	✓		✓	✓	✓	✓
b. Lung trauma / injury	✓	✓		✓	✓	✓	✓
c. Pulmonary embolism	✓	✓		✓	✓	✓	✓
9. Demonstrate knowledge and skills with competence in managing clients receiving various thoracic interventions							
a. Mechanical ventilation	✓	✓		✓	✓	✓	✓
b. Lobectomy	✓	✓		✓	✓	✓	✓
c. Pneumonectomy	✓	✓		✓	✓	✓	✓
d. Pleurodesis	✓	✓		✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Ear, Nose & Throat Care / Head & Neck Care							
1. Understand and apply anatomy & physiology of human eye	✓			✓	✓	✓	
2. Demonstrate knowledge and skills in performing hearing assessment and audiology test	✓	✓	✓	✓	✓	✓	✓
3. Demonstrate knowledge to analyze and evaluate data, information and ideas related to hearing investigations	✓			✓	✓	✓	✓
4. Apply clinical knowledge in the pathophysiology and manifestations of ear disease and its management							
a. Acute otitis media	✓			✓	✓	✓	
b. Chronic otitis media	✓			✓	✓	✓	
5. Apply advanced clinical knowledge in the pathophysiology of hearing loss and carcinomas of ear and its intervention	✓	✓		✓	✓	✓	✓
6. Demonstrate knowledge and competence in managing clients receiving ear surgeries	✓	✓		✓	✓	✓	✓
7. Demonstrate nursing competence in performing various ear procedures:							
a. Ear syringing	✓	✓			✓	✓	
b. Removal of wax / foreign body	✓	✓			✓	✓	
c. Administration of aural medication	✓	✓			✓	✓	
8. Apply advanced clinical knowledge in the pathophysiology and manifestations of nose							
a. Allergic rhinitis	✓			✓	✓	✓	
b. Nasal polyp	✓			✓	✓	✓	
c. Fracture nasal bone	✓			✓	✓	✓	
d. Epistaxis	✓			✓	✓	✓	
e. Obstructive sleep apnoea	✓			✓	✓	✓	
f. Sinusitis	✓			✓	✓	✓	
9. Demonstrate knowledge and skills in performing nasal assessment and procedures							
a. Nasal douching	✓	✓	✓	✓	✓	✓	✓
b. Administration of nasal spray and nasal drops	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Ear, Nose & Throat Care / Head & Neck Care							
10. Understand specific pharmacokinetics related to medication commonly used in management of nasal	✓			✓	✓	✓	
11. Apply advanced clinical knowledge in the pathophysiology and manifestations of Laryngeal/ Hypopharyngeal problems							
a. Epiglottitis	✓	✓	✓	✓	✓	✓	✓
b. Croup	✓	✓	✓	✓	✓	✓	✓
c. Laryngitis	✓	✓	✓	✓	✓	✓	✓
d. Vocal Cord Polyps	✓	✓	✓	✓	✓	✓	✓
e. Stridor	✓	✓	✓	✓	✓	✓	✓
f. Hoarseness	✓	✓	✓	✓	✓	✓	✓
12. Demonstrate nursing competence in performing interventional strategies for larynx							
a. Tonsillectomy	✓	✓	✓	✓	✓	✓	✓
b. Tracheostomy	✓	✓	✓	✓	✓	✓	✓
c. Medication therapy	✓	✓	✓	✓	✓	✓	✓
13. Apply knowledge and skill with competence in performing various assessment and procedures							
a. Removal of foreign body in ear	✓	✓	✓	✓	✓	✓	✓
b. Removal of foreign body in nose	✓	✓	✓	✓	✓	✓	✓
14. Demonstrate knowledge and skills with competence in managing clients with							
a. Tracheostoma	✓	✓	✓		✓	✓	✓
b. Speech therapy for patient with voice disorder	✓	✓	✓		✓	✓	✓
15. Applied anatomy & Pathophysiology and staging for head & neck tumours	✓	✓		✓	✓	✓	
16. Demonstrate knowledge in screening, related investigation for head & neck tumours	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Ear, Nose & Throat Care / Head & Neck Care							
17. Demonstrate knowledge and skills in surgical management related to various benign and malignant Head & Neck condition and reconstruction							
a. Cutaneous infection	✓	✓	✓	✓	✓	✓	✓
b. Neck Masses	✓	✓	✓	✓	✓	✓	✓
c. Naso-pharyngeal Carcinoma (NPC)	✓	✓	✓	✓	✓	✓	✓
d. Benign & malignant skin lesion	✓	✓	✓	✓	✓	✓	✓
e. Thyroid disease & cancer	✓	✓	✓	✓	✓	✓	✓
f. Parathyroid cancer	✓	✓	✓	✓	✓	✓	✓
18. Demonstrate competence in managing patient with head & neck surgery and reconstruction							
a. Pre-operative assessment and care	✓	✓	✓	✓	✓	✓	✓
b. Post-operative assessment and monitoring	✓	✓	✓	✓	✓	✓	✓
19. Demonstrate knowledge and skills in acute airway management of patient with head & neck tumour	✓	✓	✓	✓	✓	✓	✓
20. Applied advanced clinical knowledge and skills in specific nursing management with post-operative management and rehabilitation							
a. Wound management	✓	✓	✓	✓	✓	✓	✓
b. Nutritional support	✓	✓	✓	✓	✓	✓	✓
c. Trachostomy care (Temporary/ permanent)	✓	✓	✓	✓	✓	✓	✓
d. Psycho-social issue	✓	✓	✓	✓	✓	✓	✓
e. Transitional and home care	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Gastrointestinal Care / Colorectal care							
1. Applied anatomy & pathophysiology of the gastrointestinal tract	✓						
2. Demonstrate knowledge and skills in various gastrointestinal investigations and care & manage after patient after investigations:							
a. Endoscopic procedures:							
• OGD	✓	✓			✓		
• Colonoscopy	✓	✓			✓		
• Sigmoidoscopy	✓	✓			✓		
• Protoscopy	✓	✓			✓		
• Capsule endoscopy	✓	✓			✓		
b. Radiological procedures:							
• Barium meal	✓	✓			✓		
• Barium enema	✓	✓			✓		
• Angiogram	✓	✓			✓		
3. Applied knowledge and skills in oesophageal disorders and its surgical interventions							
a. Motility disorder	✓				✓		
b. Oesophageal injury	✓				✓		
c. Oesophageal tumour	✓				✓		
4. Demonstrate nursing competence in managing patient with oesophageal surgery	✓	✓	✓		✓	✓	
5. Applied knowledge and skills in stomach, duodenum diseases and its surgical interventions							
a. Inflammation and ulcer: peptic/duodenal/perforated ulcer with bleeding	✓				✓		
b. Gastric tumors	✓				✓		
c. GERD	✓				✓		
6. Demonstrate nursing competence in managing patient with stomach and duodenum surgery	✓	✓	✓		✓	✓	
7. Applied knowledge and skills in colorectal tumour and its surgical interventions	✓	✓	✓		✓		

	Domains						
	I	II	III	IV	V	VI	VII
Gastrointestinal Care / Colorectal care							
8. Applied knowledge and skills in colorectal disease and its surgical interventions							
a. Crohn's disease	✓	✓	✓		✓		
b. Ulcerative Colitis	✓	✓	✓		✓		
c. Diverticular Disease	✓	✓	✓		✓		
9. Demonstrate nursing competence in managing patient receiving colorectal surgery	✓	✓			✓	✓	
10. Demonstrate nursing competence in PEG and tube feeding	✓	✓			✓	✓	

	Domains						
	I	II	III	IV	V	VI	VII
Gynaecological Care							
1. Applied anatomy and physiology of gynaecological system.	✓						
2. Apply advanced clinical knowledge in the pathophysiology of gynecological disorders and its							
a. Cancer and pre-cancerous diseases of the reproductive organs including ovaries, fallopian tubes, uterus, cervix, vagina, and vulva	✓				✓		
b. Menstrual dysfunction: Amenorrhea (absent menstrual periods)/ Dysmenorrhea (painful menstrual periods)/ Menorrhagia / Menopause	✓				✓		
c. Pelvic Inflammatory Disease e.g. Sexually transmitted infections/ Infections of the vagina (vaginitis), cervix and uterus (including fungal, bacterial, viral, and protozoal)	✓				✓		
3. Demonstrate knowledge with competence in managing clients receiving gynaecological assessment							
a. Pap smear	✓	✓			✓		
b. HPV screening	✓	✓			✓		
c. Colposcopy and Cervical Pathology	✓	✓			✓		
4. Apply advanced clinical knowledge with competence in managing clients undergoing gynaecological operations:							
a. Dilation and curettage	✓	✓			✓		
b. Hysterectomy	✓	✓			✓		
c. Oophorectomy	✓	✓			✓		
d. Tubal ligation	✓	✓			✓		
e. Hysteroscopy	✓	✓			✓		
f. Diagnostic laparoscopy	✓	✓			✓		
g. Exploratory laparotomy	✓	✓			✓		

	Domains						
	I	II	III	IV	V	VI	VII
Hepatobiliary & Pancreatic Care							
1. Applied anatomy & physiology of hepatobiliary and pancreatic system	✓						
2. Demonstrate knowledge and skills in managing patient after various Interventional investigation procedures							
a. Endoscopic Retrograde Cholangio - Pancreatogram (ERCP) and Endoscopic Ultrasound (EUS)	✓	✓			✓		
b. Metallic stenting insertion	✓	✓			✓		
c. Percutaneous Transhepatic Biliary Drainage (PTBD)	✓	✓			✓		
d. Abdominal tapping	✓	✓			✓		
e. Liver biopsy	✓	✓			✓		
3. Applied knowledge and skills in liver diseases and its surgical interventions							
a. Liver cyst	✓	✓			✓		
b. Liver abscess	✓	✓			✓		
c. Liver tumour	✓	✓			✓		
4. Demonstrate nursing competence in managing patient with hepatic resection	✓	✓	✓		✓		
5. Applied knowledge and skills in biliary disorders and its surgical interventions							
a. Gall stone	✓	✓			✓		
b. CBD stone	✓	✓			✓		
c. Recurrent pyrogenic cholangitis	✓	✓			✓		
d. Cholangio carcinoma	✓	✓			✓		
e. Choledochal cyst	✓	✓			✓		
6. Demonstrate nursing competence in managing patient with biliary disorders	✓	✓			✓		
7. Applied knowledge and skills in biliary disorders and its surgical interventions							
a. Pancreatitis	✓	✓			✓		
b. Pancreatic tumors	✓	✓			✓		
8. Demonstrate nursing competence in managing patient with pancreatic disorders and surgery	✓	✓			✓		

	Domains						
	I	II	III	IV	V	VI	VII
Neurosurgical Care							
1. Understand and apply anatomy & physiology of neurology system and spinal cord	✓		✓	✓			
2. Demonstrate knowledge and skills in Identifying and interpreting the report of specific types of neurological investigation and laboratory test	✓	✓	✓	✓	✓	✓	✓
3. Demonstrate nursing competence in performing head injury assessment and investigation	✓	✓	✓	✓	✓	✓	✓
4. Demonstrate nursing competence in pre and post-operative care for patients with head injury	✓	✓	✓	✓	✓	✓	✓
5. Apply advanced clinical knowledge in managing patient with neurovascular disease	✓	✓	✓	✓	✓	✓	✓
6. Apply advanced clinical knowledge in managing patient with epilepsy	✓	✓	✓	✓	✓	✓	✓
7. Apply advanced clinical knowledge in managing patient with degenerative neurological disease	✓	✓	✓	✓	✓	✓	✓
8. Understand common pain management and anaesthesia specific pharmacokinetics related to common drug to neurosurgical patient	✓	✓	✓	✓	✓	✓	✓
9. Acquire knowledge and skills in managing patient undergoing various neurosurgical operations	✓	✓	✓	✓	✓	✓	✓
10. Apply advanced clinical knowledge with competence in managing patients for post neurosurgery rehabilitation program	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Ophthalmology Care							
1. Understand and apply anatomy & physiology of human eye	✓						
2. Demonstrate advanced clinical knowledge in the pathophysiology of common eye disorders and principles of management							
a. Disorders of eyelid, lacrimal system and orbit	✓			✓	✓	✓	✓
b. Disorders of conjunctiva	✓			✓	✓	✓	✓
c. Disorders of sclera, cornea, iris and ciliary body	✓			✓	✓	✓	✓
d. Disorders of lens	✓			✓	✓	✓	✓
e. Disorders of choroid and retina	✓			✓	✓	✓	✓
f. Visual disturbances & blindness	✓			✓	✓	✓	✓
3. Demonstrate advanced clinical knowledge with competence in managing common ophthalmology conditions							
a. Red eye	✓	✓		✓	✓	✓	✓
b. Eye infection	✓	✓		✓	✓	✓	✓
c. Eye trauma / injury	✓	✓		✓	✓	✓	✓
4. Apply advanced clinical knowledge with competence in managing clients with optometric and orthoptic assessment	✓	✓					
5. Apply advanced clinical knowledge with competence in managing clients receiving common eye operations							
a. Cataract surgery	✓	✓	✓	✓	✓	✓	✓
b. Glaucoma surgery	✓	✓	✓	✓	✓	✓	✓
6. Apply advanced clinical knowledge with competence in managing clients with ocular manifestations of systemic disease							
a. Diabetic retinopathy	✓	✓	✓	✓	✓	✓	✓
7. Demonstrate knowledge and skills with competence in managing clients with visual impairment	✓	✓	✓	✓	✓	✓	✓
8. Demonstrate knowledge and skills with competence in managing clients with ophthalmic emergency	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Organ Donation							
1. Apply advanced knowledge of Brain Death in organ donation							
a. Determination of human death and advancing life support	✓				✓		✓
b. Pathophysiology of brain death	✓				✓		✓
c. Diagnosis and confirmation of brain death	✓				✓		✓
2. Apply advanced clinical knowledge in the physiological support of potential organ donor	✓				✓	✓	
3. Understand the role of transplant coordinator and transplant coordination service assessment							
a. Identified potential donor and make referrals	✓	✓	✓	✓	✓	✓	✓
b. Care and preservation of organs	✓	✓	✓	✓	✓	✓	✓
c. End-of-life care	✓	✓	✓	✓	✓	✓	✓
d. Donor's families management	✓	✓	✓	✓	✓	✓	✓
4. Apply advanced clinical knowledge with competence in managing grief and bereavement in organ donation	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Stoma and Wound Care							
1. Demonstrate the knowledge and skills in differentiating acute surgical wound	✓		✓	✓			
2. Understand the pathophysiology of wound healing	✓		✓	✓			
3. Acquire knowledge in identification of various wound care products and applicable to different wound condition	✓		✓	✓			
4. Demonstrate advance clinical knowledge to interpret the condition of stoma creation & closure							
a. Identify different types of stoma	✓	✓	✓	✓	✓	✓	✓
b. Indications of stoma creation	✓	✓	✓	✓	✓	✓	✓
c. Characteristics of stoma	✓	✓	✓	✓	✓	✓	✓
d. Indications of stoma closure	✓	✓	✓	✓	✓	✓	✓
5. Demonstrate nursing competence in pre and post-operative care for patients undergoing stoma surgery	✓	✓	✓	✓	✓	✓	✓
6. Demonstrate nursing competence in performing interventional procedures:							
a. Colostomy irrigation	✓	✓	✓	✓	✓	✓	✓
7. Acquire knowledge and demonstrate skills in managing stomal & peristomal complications	✓	✓	✓	✓	✓	✓	✓
8. Acquire knowledge and demonstrate skills in managing fistula and drainage wounds	✓	✓	✓	✓	✓	✓	✓
9. Apply advanced clinical knowledge and skills in selecting stomal appliances and accessories	✓	✓	✓	✓	✓	✓	✓

	Domains						
	I	II	III	IV	V	VI	VII
Urological Care							
1. Applied anatomy & physiology of urinary tract system	✓			✓	✓	✓	
2. Demonstrate knowledge and skills in performing various advanced urological investigations / procedures							
a. Flexible cystoscopy	✓			✓	✓	✓	
b. Uroflowmetry	✓			✓	✓	✓	
c. Urodynamic study	✓			✓	✓	✓	
3. Demonstrate knowledge to interpret radiological investigations and laboratory tests	✓			✓	✓	✓	
4. Demonstrate knowledge in pathophysiology and manifestations of LUTS and its intervention	✓			✓	✓	✓	
5. Demonstrate nursing compliance in managing patient with LUTS	✓			✓	✓	✓	
6. Apply advanced clinical knowledge in the pathophysiology, presentation and management of Benign Prostatic Hyperplasia (BPH)	✓			✓	✓	✓	
7. Demonstrate nursing compliance in managing patient with Trans-urethral resection of prostate gland	✓			✓	✓	✓	
8. Applied knowledge and skills in urological carcinoma and its surgical interventions							
a. Prostate cancer	✓	✓		✓	✓	✓	✓
b. Bladder cancer	✓	✓		✓	✓	✓	✓
9. Demonstrate advanced clinical knowledge with competence in managing clients after urological							
a. Bladder irrigation	✓			✓	✓	✓	
b. Ileal conduit	✓			✓	✓	✓	
c. Stoma care	✓			✓	✓	✓	
10. Understand the pathophysiology and manifestations of urinary tract stones disease and its interventions	✓			✓	✓	✓	

	Domains						
	I	II	III	IV	V	VI	VII
Urological Care							
11. Demonstrate nursing competence in catheter care							
a. Urethral catheter	✓			✓	✓	✓	
b. Suprapubic catheter	✓			✓	✓	✓	
c. Percutaneous nephrostomy catheter	✓			✓	✓	✓	
12. Demonstrate nursing competence in managing patients with this conditions							
a. Urinary incontinence	✓			✓	✓	✓	

	Domains						
	I	II	III	IV	V	VI	VII
Vascular Care							
1. Applied anatomy & physiology of arterial and venous system	✓	✓		✓	✓	✓	
2. Applied advanced clinical knowledge in the pathophysiology of abdominal aortic aneurysm / thoracic aortic aneurysm and its interventions	✓	✓		✓	✓	✓	
3. Demonstrate competence in managing clients undergo abdominal and thoracic aortic aneurysm surgeries	✓	✓		✓	✓	✓	✓
4. Demonstrate knowledge with competence in performing advanced assessment measures and interpret the report							
a. Duplex scan	✓	✓		✓	✓	✓	✓
b. Doppler ultrasound	✓	✓		✓	✓	✓	✓
5. Applied knowledge and skills in the pathophysiology of vascular disease, peripheral arterial occlusive disease and its interventions	✓	✓		✓	✓	✓	✓
6. Demonstrate nursing competence in managing lower limb ulcer	✓	✓		✓	✓	✓	✓
7. Demonstrate the knowledge and skills in post-operative non-invasive vascular assessment	✓	✓		✓	✓	✓	✓

4. Summary of Learning Hours

Item	Specialty	Hours
1	Core Clinical Knowledge & Skills in Advanced Surgical Nursing	5 hours
2	Breast Care	13 hours
3	Burn and Plastic Care	13 hours
4	Cardiothoracic Care	13 hours
5	Ear, Nose & Throat Care / Head & Neck Care	13 hours
6	Gastrointestinal Care / Colorectal Care	13 hours
7	Gynaecology Care	13 hours
8	Hepatobiliary and Pancreatic Care	13 hours
9	Neurosurgical Care	16 hours
10	Ophthalmology Care	13 hours
11	Organ Donation	10 hours
12	Stoma and Wound Care	13 hours
13	Urological Care	13 hours
14	Vascular Care	13 hours
	TOTAL	174 hours