



LeMone and Burke's

Medical-Surgical Nursing
Critical thinking
for person-centred care

VOLUME

1

Fifth Edition

Baldoff | Gubrud | Carno
Levett-Jones | Carville | Hales
Hillman | Houlis-Berry
Langtree | Moxham | Reid-Searl
Stanley | Stanton

Detailed contents

About the authors	xxiii	Stages of adulthood	22
Contributors	xxvii	<i>The young adult 22; The middle adult 24;</i>	
Preface	xxix	<i>The older adult 25</i>	
Guided tour	xxxii	The concept of family	28
Educator support	xxxiv	<i>Definitions and functions of the family 28; Family</i>	
Acknowledgements	xxxv	<i>developmental stages and tasks 28; The family of the</i>	
Mapping to the NMBA (2016) <i>Registered Nurse</i>		<i>person with a chronic illness 29</i>	
<i>Standards for Practice</i>	xxxvi		
The Patient Safety Competency Framework for Nursing		UNIT 2	
Students	lii	Alterations in patterns of health	32
		CHAPTER 3 Nursing care of people	
		having surgery	33
		Classifications of surgical procedures	34
		Settings for surgery	34
		Legal requirements	35
		Perioperative risk factors	35
		INTERPROFESSIONAL CARE	38
		NURSING CARE	49
		CHAPTER 4 Nursing care of people	
		experiencing loss, grief and death	65
		Loss, grief and mourning	66
		Theories of loss and grief	66
		<i>Freud: psychoanalytic theory 67; Bowlby: protest,</i>	
		<i>despair and detachment 67; Engel: acute grief,</i>	
		<i>restitution and long-term grief 67; Kübler-Ross:</i>	
		<i>stages of coping with loss 67; Caplan: stress and</i>	
		<i>loss 67; Neimeyer: meaning-oriented perspective 68</i>	
		Factors affecting responses to loss	68
		<i>Age 68; Social support 68; Families 68; Cultural</i>	
		<i>and spiritual practices 68; Rituals of mourning 69; Cultural</i>	
		<i>diversity in the care of individuals with a</i>	
		<i>life-limiting illness 71</i>	
		End-of-life care	72
		<i>Nursing considerations for palliative and end-of-life</i>	
		<i>care 72; Settings for palliative and end-of-life care 73;</i>	
		<i>Symptom management for the person with palliative care</i>	
		<i>needs 74; Complementary therapies: their use in end-of-life</i>	
		<i>care 76; Support for the person and family 76;</i>	
		<i>Acknowledgement of death in a hospital setting 76</i>	
		INTERPROFESSIONAL CARE	77
		NURSING CARE	77
		CHAPTER 5 Nursing care of people with substance	
		misuse problems	83
		Introduction	84
		DSM-5 and substance use disorders	85
		Risk factors and causes	86
		Classification of substances	87
		<i>CNS depressants 87; Stimulants 88;</i>	
		<i>Hallucinogens 89; Mixed 89; Steroids 89; Prescription</i>	
		<i>medication 89; Dissociative anaesthetics 90;</i>	
		<i>New psychoactive substances 90</i>	
VOLUME 1			
UNIT 1			
Dimensions of medical–surgical			
nursing	1		
CHAPTER 1 Medical–surgical nursing	2		
Person-centred care	3		
Critical thinking	3		
The nursing process	4		
<i>Assessment 4; Diagnosis 5; Planning 6;</i>			
<i>Implementation 6; Evaluation 6; The nursing</i>			
<i>process in clinical practice 6</i>			
Clinical reasoning	6		
Accountable and responsible nursing practice	7		
<i>Nursing and Midwifery Board of Australia (NMBA)</i>			
<i>Registered Nurse Standards for Practice 7; Code of</i>			
<i>Ethics for Nurses 8; Code of Conduct for</i>			
<i>Nurses 8</i>			
Culturally competent nursing	9		
Legal and ethical dilemmas in nursing	10		
Roles of the nurse in medical–surgical nursing practice	10		
<i>The nurse as caregiver 10; The nurse as educator 10;</i>			
<i>The nurse as advocate 11; The nurse as leader</i>			
<i>and manager 11; The nurse as researcher 13</i>			
CHAPTER 2 Health and illness in adults	15		
Defining health	16		
<i>The illness–wellness continuum 16</i>			
Determinants of health	16		
<i>Genetic make-up 16; Cognitive abilities and</i>			
<i>educational level 16; Race, ethnicity and cultural</i>			
<i>background 16; Indigenous health 16; Age, gender</i>			
<i>and developmental level 17; Lifestyle and</i>			
<i>environment 17; Socioeconomic background 17;</i>			
<i>Geographical area 17</i>			
Promotion of health and prevention of illness and injury	17		
Acute and chronic illness	18		
<i>Disease and illness 19</i>			
Illness prevention	21		

Communicating effectively with people who misuse substances	91	Definitions and characteristics of pain	153
Comprehensive drug and alcohol assessment	91	Acute pain 153; Persistent (chronic) pain 154; Breakthrough pain 154; Neuropathic pain 155; Phantom pain 155; Central pain 155; Cancer pain 155	
Immediate management and brief interventions	92	Factors affecting responses to pain	155
Opportunistic intervention 92; Referral 93; Diagnostic tests 93; Intoxication 93; Overdose 94; Withdrawal 94		Sociocultural influences 156; Psychological status 156; Past experiences with pain 156; Source and meaning 156; Knowledge 156; Age 156; Pain and cultural diversity 158	
Rehabilitation for people dependent on alcohol or other drugs	99	Myths and misconceptions about pain	158
Psychosocial interventions in recovery 99		INTERPROFESSIONAL CARE AND PHARMACOLOGICAL/ NON-PHARMACOLOGICAL TREATMENT ALTERNATIVES	159
INTERPROFESSIONAL CARE	100	NURSING CARE	166
Special populations	102	CHAPTER 9 Nursing care of people with altered fluid, electrolyte and acid-base balance	176
Adolescents 102; Pregnant women 102; Older people 102; Aboriginal and Torres Strait Islander people 102; The LGBTQIA+ community 103; Healthcare workers 103		Overview of normal fluid and electrolyte balance	177
Conclusion	103	Body fluid composition 177; Body fluid distribution 178; Body fluid movement 180; Body fluid regulation 182	
CHAPTER 6 Nursing care of people in the emergency department or experiencing disasters	107	The person with fluid volume deficit	184
Emergency nursing in Australia	108	Pathophysiology 184; Manifestations 185	
Communication 108; The triage system in the emergency department 109; Patient assessment in the emergency department 110; The scope of nursing practice in the emergency department 112		INTERPROFESSIONAL CARE	187
Disaster nursing	113	NURSING CARE	188
Definitions 113; Types of disasters 113; Common disaster-related injuries and related symptoms 115		Fluid volume excess	191
Disaster planning, response and mitigation	115	Pathophysiology 191; Manifestations and complications 191	
Stages and phases of a disaster 116		INTERPROFESSIONAL CARE	191
NURSING CARE	117	NURSING CARE	193
UNIT 3		Sodium imbalance	196
Pathophysiology and patterns of health	125	Overview of normal sodium balance 196; The person with hyponatraemia 196	
CHAPTER 7 Genetic implications of adult health nursing	126	INTERPROFESSIONAL CARE	197
Overview of genetics and genomics	127	NURSING CARE	198
Integrating genetics and genomics into nursing practice	127	The person with hypernatraemia 199	
Foundations of genetics	128	INTERPROFESSIONAL CARE	199
Cell division 129; Chromosomal alterations 129; Genes 130		NURSING CARE	199
Principles of inheritance	132	Potassium imbalance	200
Mendelian patterns of inheritance 132; Variability in classic Mendelian patterns of inheritance 135; Multifactorial (polygenic or complex) disorders 136		Overview of normal potassium balance 200; The person with hypokalaemia 201	
INTERPROFESSIONAL CARE	136	INTERPROFESSIONAL CARE	202
NURSING CARE	139	NURSING CARE	204
Education	146	The person with hyperkalaemia 206	
Psychosocial care 146; Evaluation 147		INTERPROFESSIONAL CARE	207
Visions for the future	147	NURSING CARE	208
CHAPTER 8 Nursing care of people in pain	150	Calcium imbalance	210
Neurophysiology and theories of pain	151	Overview of normal calcium balance 210; The person with hypocalcaemia 211	
Neurophysiology 151; Ascending pain pathways 152; Inhibitory mechanisms 152; Pain theories 152		INTERPROFESSIONAL CARE	212
		NURSING CARE	214
		The person with hypercalcaemia 214	
		INTERPROFESSIONAL CARE	215
		NURSING CARE	216

Magnesium imbalance	217	INTERPROFESSIONAL CARE	287
<i>Overview of normal magnesium balance 217;</i>		NURSING CARE	289
<i>The person with hypomagnesaemia 217</i>		Normal immune responses	291
INTERPROFESSIONAL CARE	218	<i>The person with tissue inflammation 291;</i>	
NURSING CARE	218	<i>Pathophysiology and manifestations 291</i>	
<i>The person with hypermagnesaemia 219</i>		INTERPROFESSIONAL CARE	293
INTERPROFESSIONAL CARE	219	NURSING CARE	294
NURSING CARE	219	<i>The person with an infection 296; Healthcare-</i>	
Phosphate imbalance	220	<i>associated infections 299; Antibiotic-resistant</i>	
<i>Overview of normal phosphate balance 220;</i>		<i>microorganisms 299</i>	
<i>The person with hypophosphataemia 220</i>		INTERPROFESSIONAL CARE	301
INTERPROFESSIONAL CARE	221	NURSING CARE	308
NURSING CARE	221	CHAPTER 12 Nursing care of people with altered immunity	312
<i>The person with hyperphosphataemia 221</i>		Overview of the immune system	313
INTERPROFESSIONAL CARE	221	Changes in immune function in the older adult	313
NURSING CARE	221	Assessment of altered immune system function	314
Regulation of acid–base balance	222	<i>Health history 314; Physical assessment 314</i>	
<i>Buffer systems 222; Respiratory system 223;</i>		The person with a hypersensitivity reaction	315
<i>Renal system 223; Assessment of acid–base</i>		<i>Pathophysiology 315</i>	
<i>balance 223</i>		INTERPROFESSIONAL CARE	320
Acid–base imbalance	224	NURSING CARE	322
<i>Compensation 225; The person with metabolic</i>		The person with an autoimmune disorder	324
<i>acidosis 226</i>		<i>Pathophysiology 325</i>	
INTERPROFESSIONAL CARE	228	INTERPROFESSIONAL CARE	325
NURSING CARE	229	NURSING CARE	326
<i>The person with metabolic alkalosis 230</i>		The person with a tissue transplant	326
INTERPROFESSIONAL CARE	230	<i>Pathophysiology 327</i>	
NURSING CARE	231	INTERPROFESSIONAL CARE	328
<i>The person with respiratory acidosis 232</i>		NURSING CARE	329
INTERPROFESSIONAL CARE	233	The person with HIV infection	334
NURSING CARE	233	<i>Incidence and prevalence 334; Pathophysiology</i>	
<i>The person with respiratory alkalosis 235</i>		<i>and manifestations 335</i>	
INTERPROFESSIONAL CARE	235	INTERPROFESSIONAL CARE	339
NURSING CARE	236	NURSING CARE	344
CHAPTER 10 Nursing care of people experiencing trauma and shock	239	CHAPTER 13 Nursing care of people with cancer	354
The person experiencing trauma	240	Cancer and theories of carcinogenesis	355
<i>Components of trauma 240; Types of trauma 241;</i>		Incidence and mortality	355
<i>Effects of traumatic injury 241</i>		<i>Risk factors 356</i>	
INTERPROFESSIONAL CARE	245	Pathophysiology	359
NURSING CARE	253	<i>Normal cell growth 359; The cell cycle 359;</i>	
The person experiencing shock	256	<i>Differentiation 360; Theories of</i>	
<i>Overview of cellular homeostasis and</i>		<i>carcinogenesis 360; Known carcinogens 360;</i>	
<i>haemodynamics 256; Pathophysiology 256;</i>		<i>Types of neoplasms 362; Tumour invasion</i>	
<i>Types of shock 260</i>		<i>and metastasis 363</i>	
INTERPROFESSIONAL CARE	264	Physiological and psychological effects of cancer	365
NURSING CARE	267	<i>Disruption of function 365; Haematological</i>	
CHAPTER 11 Nursing care of people with infections	273	<i>alterations 365; Infection 365; Haemorrhage 366;</i>	
Overview of the immune system	274	<i>Anorexia–cachexia syndrome 366; Paraneoplastic</i>	
<i>Immune system components 274; Innate</i>		<i>syndromes 366; Pain 367; Physical stress 367;</i>	
<i>immune response 279; Adaptive immune</i>		<i>Psychological stress 367</i>	
<i>response 282; The person with natural or</i>		INTERPROFESSIONAL CARE	368
<i>acquired immunity 286</i>		NURSING CARE	386

UNIT 4**Responses to altered integumentary structure and function****CHAPTER 14 Assessing the integumentary system****Anatomy, physiology and functions of the integumentary system**

The skin 406; Skin appendages 408; Skin colour 409

Assessing the integumentary system

Health assessment interview 410; Physical assessment 413; Diagnostic tests 414; Genetic considerations 421

CHAPTER 15 Nursing care of people with integumentary disorders**The person with pruritus****The person with dry skin (xerosis)****The person with benign skin lesions**

Cysts 427; Hypertrophic scar 427; Keloids 427; Naevi 427; Angiomas 428; Skin tags 428; Keratoses 428

The person with psoriasis

Pathophysiology 429; Manifestations 429

INTERPROFESSIONAL CARE**NURSING CARE****The person with a bacterial infection of the skin**

Pathophysiology 432

INTERPROFESSIONAL CARE**NURSING CARE****The person with a fungal infection**

Pathophysiology 434

INTERPROFESSIONAL CARE**NURSING CARE****The person with a viral infection**

Pathophysiology 436

INTERPROFESSIONAL CARE**NURSING CARE****The person with a parasitic infestation**

Pathophysiology 439

INTERPROFESSIONAL CARE**NURSING CARE****The person with dermatitis**

Pathophysiology 440

INTERPROFESSIONAL CARE**NURSING CARE****The person with acne**

Pathophysiology 443

INTERPROFESSIONAL CARE**NURSING CARE****The person with actinic keratosis****The person with non-melanoma skin cancer**

The health burden of non-melanoma skin cancer 446; Risk factors 446; Pathophysiology 446

404	INTERPROFESSIONAL CARE	448
405	NURSING CARE	448
	The person with malignant melanoma	449
	<i>Incidence 449; Risk factors 450; Pathophysiology 450</i>	
406	INTERPROFESSIONAL CARE	452
	NURSING CARE	453
410	The person with a pressure injury	455
	<i>Pressure injuries in Australia 455; Pathophysiology 455; Risk factors 459</i>	
	INTERPROFESSIONAL CARE	459
424	NURSING CARE	463
	The person with a skin tear	463
	<i>Preventing skin tears 466; Skin tear management 467</i>	
	The person with a disorder of the hair	468
	<i>Pathophysiology 468</i>	
	INTERPROFESSIONAL CARE	469
	NURSING CARE	469
428	The person with a disorder of the nails	469
	<i>Pathophysiology 469</i>	
429	INTERPROFESSIONAL CARE	470
430	NURSING CARE	470
431		
433	CHAPTER 16 Nursing care of people with burns	473
433	Types of burn injury	475
	<i>Thermal burns 475; Chemical burns 475; Electrical burns 476; Radiation burns 477; Cold injury 477; Inhalation injury 478; Friction burns 478</i>	
434		
435	Burn classification	478
	<i>Depth of the burn 478; Extent of the burn 480; Phases of burn management 483</i>	
435		
436	Burn wound healing	485
	<i>Post-burn itch 485</i>	
438		
438	The person with minor burns	485
	<i>Pathophysiology 485</i>	
439	NURSING CARE	486
440	The person with major burns	487
	<i>Pathophysiology 487</i>	
440	INTERPROFESSIONAL CARE	490
440	NURSING CARE	499
442		
442	UNIT 5	
443	Responses to altered endocrine function	507
444		
445	CHAPTER 17 A person-centred approach to assessing the endocrine system	508
445	Pituitary gland	509
	<i>Anterior pituitary 509; Posterior pituitary 510</i>	

Thyroid gland	511	Overview of endocrine pancreatic hormones and glucose homeostasis	558
<i>Parathyroid glands</i>		<i>Hormones</i>	558; <i>Blood glucose homeostasis</i>
Adrenal glands	511	Pathophysiology of diabetes	559
Pancreas	512	<i>Type 1 diabetes mellitus</i>	560; <i>Type 2 DM</i>
Gonads	512	<i>Diabetes in the older adult</i>	562
Hormones	512	INTERPROFESSIONAL CARE	563
Assessing endocrine function	513	Acute complications of diabetes	577
<i>Health assessment interview</i>		<i>Acute complications: alterations in blood</i>	
<i>assessment</i>		<i>glucose levels</i>	577
<i>Diagnostic tests</i>		INTERPROFESSIONAL CARE	581
<i>Genetic considerations</i>		INTERPROFESSIONAL CARE	583
CHAPTER 18 Nursing care of people with endocrine disorders	526	<i>Chronic complications</i>	583
People with hyperthyroidism	527	NURSING CARE	586
<i>Pathophysiology and manifestations</i>		Appendix: Essentials for nurses: COVID-19	A-1
INTERPROFESSIONAL CARE	530	Glossary	G-1
NURSING CARE	532	Index	I-1
The person with hypothyroidism	535	VOLUME 2	
<i>Pathophysiology and manifestations</i>		UNIT 6	
INTERPROFESSIONAL CARE	537	Responses to altered gastrointestinal function	596
NURSING CARE	537	CHAPTER 20 A person-centred approach to assessing the gastrointestinal system	597
The person with cancer of the thyroid	541	Nutrients	598
The person with hyperparathyroidism	541	<i>Carbohydrates</i>	598; <i>Proteins</i>
<i>Pathophysiology and manifestations</i>		<i>Fats (lipids)</i>	599; <i>Vitamins</i>
INTERPROFESSIONAL CARE	542	<i>Minerals</i>	601; <i>Dietary fibre</i>
NURSING CARE	542	<i>The mouth</i>	603; <i>The pharynx</i>
The person with hypoparathyroidism	543	<i>The oesophagus</i>	603; <i>The stomach</i>
<i>Pathophysiology and manifestations</i>		<i>The small intestine</i>	605; <i>The large intestine</i>
INTERPROFESSIONAL CARE	543	<i>The accessory digestive organs</i>	606
NURSING CARE	543	Metabolism	607
The person with hypercortisolism (Cushing's syndrome)	544	Assessing nutritional status and gastrointestinal function	607
<i>Pathophysiology</i>		<i>Health assessment interview</i>	607; <i>Physical assessment</i>
INTERPROFESSIONAL CARE	544	<i>assessment</i>	609; <i>Diagnostic tests</i>
NURSING CARE	546	<i>Genetic considerations</i>	612
The person with adrenal insufficiency	548	CHAPTER 21 Nursing care of people with nutritional disorders	628
<i>Pathophysiology</i>		The person with obesity	629
<i>Manifestations</i>		<i>Incidence and prevalence</i>	629; <i>Risk factors</i>
<i>Addisonian crisis</i>		<i>Overview of normal physiology</i>	630; <i>Pathophysiology</i>
INTERPROFESSIONAL CARE	549	<i>Pathophysiology</i>	630
NURSING CARE	550	INTERPROFESSIONAL CARE	631
The person with pheochromocytoma	552	NURSING CARE	635
The person with disorders of the anterior pituitary gland	553	The person with malnutrition	637
<i>Pathophysiology and manifestations</i>		<i>Incidence and prevalence</i>	637; <i>Risk factors</i>
INTERPROFESSIONAL CARE	553	<i>Pathophysiology</i>	638; <i>Manifestations</i>
NURSING CARE	554	INTERPROFESSIONAL CARE	641
The person with disorders of the posterior pituitary gland	554	NURSING CARE	645
<i>Pathophysiology and manifestations</i>		The person with an eating disorder	647
INTERPROFESSIONAL CARE	554	<i>Anorexia nervosa</i>	648; <i>Bulimia nervosa</i>
NURSING CARE	555	<i>Binge-eating disorder</i>	648
CHAPTER 19 Nursing care of people with diabetes mellitus	557	INTERPROFESSIONAL CARE	649
Incidence and prevalence	558	NURSING CARE	650

CHAPTER 22 Nursing care of people with upper gastrointestinal disorders	653		
The person with oral mucositis <i>Pathophysiology and manifestations 654</i>	654	The person with constipation <i>Pathophysiology 697; Manifestations 697</i>	697
INTERPROFESSIONAL CARE	654	INTERPROFESSIONAL CARE	698
NURSING CARE	655	NURSING CARE	701
The person with oral cancer <i>Pathophysiology and manifestations 657</i>	657	The person with irritable bowel syndrome <i>Pathophysiology 704; Manifestations 704</i>	704
INTERPROFESSIONAL CARE	657	INTERPROFESSIONAL CARE	704
NURSING CARE	658	NURSING CARE	705
The person with gastro-oesophageal reflux disease <i>Pathophysiology 661; Manifestations 661</i>	661	The person with faecal incontinence <i>Pathophysiology 706</i>	706
INTERPROFESSIONAL CARE	662	INTERPROFESSIONAL CARE	706
NURSING CARE	664	NURSING CARE	707
The person with a hiatal hernia	665	The person with appendicitis <i>Pathophysiology 708; Manifestations 709; Complications 709</i>	708
The person with impaired oesophageal motility	665	INTERPROFESSIONAL CARE	709
The person with oesophageal cancer <i>Pathophysiology 666; Manifestations 666</i>	666	NURSING CARE	710
INTERPROFESSIONAL CARE	667	The person with peritonitis <i>Pathophysiology 711; Manifestations 712; Complications 712</i>	711
NURSING CARE	667	INTERPROFESSIONAL CARE	712
Overview of normal physiology	668	NURSING CARE	713
The person with nausea and vomiting <i>Pathophysiology 669</i>	669	The person with gastroenteritis <i>Pathophysiology 716; Manifestations 716; Complications 717; Specific types of gastrointestinal infections 717</i>	716
INTERPROFESSIONAL CARE	669	INTERPROFESSIONAL CARE	720
NURSING CARE	671	NURSING CARE	722
The person with gastrointestinal bleeding <i>Pathophysiology 671</i>	671	The person with a protozoal bowel infection <i>Pathophysiology and manifestations 722</i>	722
INTERPROFESSIONAL CARE	672	INTERPROFESSIONAL CARE	724
NURSING CARE	672	NURSING CARE	724
The person with gastritis <i>Pathophysiology 673</i>	673	The person with a helminthic disorder <i>Pathophysiology 726</i>	726
INTERPROFESSIONAL CARE	674	INTERPROFESSIONAL CARE	727
NURSING CARE	675	NURSING CARE	728
The person with peptic ulcer disease <i>Risk factors 676; Pathophysiology 676; Manifestations 677; Complications 677; Zollinger–Ellison syndrome 680</i>	676	The person with inflammatory bowel disease <i>Ulcerative colitis 729; Crohn's disease 732</i>	728
INTERPROFESSIONAL CARE	680	INTERPROFESSIONAL CARE	733
NURSING CARE	681	NURSING CARE	739
The person with cancer of the stomach <i>Risk factors 684; Pathophysiology 684; Manifestations 685</i>	684	The person with sprue <i>Pathophysiology 743; Coeliac disease 744; Tropical sprue 744</i>	743
INTERPROFESSIONAL CARE	685	INTERPROFESSIONAL CARE	745
NURSING CARE	688	NURSING CARE	746
CHAPTER 23 Nursing care of people with bowel disorders	692	The person with lactase deficiency <i>Manifestations 747</i>	747
The person with diarrhoea <i>Pathophysiology 693; Manifestations 693; Complications 693</i>	693	INTERPROFESSIONAL CARE	747
INTERPROFESSIONAL CARE	693	NURSING CARE	747
NURSING CARE	696	The person with short bowel syndrome	747
		INTERPROFESSIONAL CARE	748
		NURSING CARE	748

The person with polyps <i>Pathophysiology 748; Manifestations 749</i>	748	The person with liver trauma <i>Pathophysiology and manifestations 803</i>	803
INTERPROFESSIONAL CARE	749	INTERPROFESSIONAL CARE	803
NURSING CARE	750	NURSING CARE	804
The person with colorectal cancer <i>Pathophysiology 751; Manifestations 751; Complications 751</i>	750	The person with liver abscess <i>Pathophysiology and manifestations 804</i>	804
INTERPROFESSIONAL CARE	751	INTERPROFESSIONAL CARE	804
NURSING CARE	754	NURSING CARE	804
The person with a hernia <i>Pathophysiology 759; Manifestations 759; Complications 760</i>	759	The person with pancreatitis <i>Physiology review 805; Pathophysiology 805</i>	805
INTERPROFESSIONAL CARE	760	INTERPROFESSIONAL CARE	806
NURSING CARE	760	NURSING CARE	808
The person with intestinal obstruction <i>Pathophysiology 761</i>	761	The person with pancreatic cancer <i>Pathophysiology and manifestations 811</i>	810
INTERPROFESSIONAL CARE	762	INTERPROFESSIONAL CARE	811
NURSING CARE	763		
The person with diverticular disease <i>Pathophysiology 765</i>	765		
INTERPROFESSIONAL CARE	766		
NURSING CARE	767		
The person with haemorrhoids <i>Pathophysiology and manifestations 768</i>	768		
INTERPROFESSIONAL CARE	769		
NURSING CARE	770		
The person with an anorectal lesion <i>Anal fissure 771; Anorectal abscess 771; Anorectal fistula 771; Pilonidal disease 771</i>	770		
NURSING CARE	771		
CHAPTER 24 Nursing care of people with gallbladder, liver and pancreatic disorders	775		
The person with gallstones <i>Physiology review 776; Pathophysiology and manifestations 776</i>	776		
INTERPROFESSIONAL CARE	777		
NURSING CARE	779		
The person with cancer of the gallbladder <i>Physiology review 782; Common manifestations of liver disorders 783</i>	782		
The person with hepatitis <i>Pathophysiology and manifestations 784</i>	784		
INTERPROFESSIONAL CARE	786		
NURSING CARE	788		
The person with cirrhosis <i>Pathophysiology 789; Manifestations and complications 790</i>	789		
INTERPROFESSIONAL CARE	795		
NURSING CARE	798		
The person with cancer of the liver <i>Pathophysiology 802; Manifestations 802</i>	802		
INTERPROFESSIONAL CARE	803		
NURSING CARE	803		
		UNIT 7	
		Responses to altered urinary elimination	816
		CHAPTER 25 A person-centred approach to assessing the renal system	817
		The kidneys <i>Formation of urine 820; Maintaining normal composition and volume of urine 822</i>	818
		The ureters	823
		The urinary bladder	823
		The urethra	824
		Health assessment, diagnostics and documentation <i>Health assessment interview 824; Physical assessment 826; Diagnostic tests 828; Genetic considerations 828</i>	824
		CHAPTER 26 Nursing care of people with urinary tract disorders	836
		The person with urinary tract infection <i>Risk factors 837; Physiology review 838; Pathophysiology and manifestations 838</i>	837
		INTERPROFESSIONAL CARE	840
		NURSING CARE	843
		The person with urinary calculi <i>Incidence and risk factors 846; Physiology review 847; Pathophysiology 847; Manifestations 847; Complications 848</i>	846
		INTERPROFESSIONAL CARE	849
		NURSING CARE	850
		The person with a urinary tract tumour <i>Incidence and risk factors 854; Pathophysiology 854; Manifestations 855</i>	854
		INTERPROFESSIONAL CARE	855
		NURSING CARE	856
		The person with urinary retention <i>Physiology review 861; Pathophysiology 861; Manifestations 862</i>	861

INTERPROFESSIONAL CARE	862	Kidney transplantation	914
NURSING CARE	862	NURSING CARE	917
The person with a neurogenic bladder <i>Pathophysiology</i> 863	862		
INTERPROFESSIONAL CARE	863	UNIT 8	
NURSING CARE	865	Responses to altered cardiovascular function	926
The person with urinary incontinence <i>Incidence and prevalence</i> 865; <i>Pathophysiology</i> 865	865	CHAPTER 28 A person-centred approach to assessing the cardiovascular and lymphatic systems	927
INTERPROFESSIONAL CARE	867	Structure and function of the cardiovascular system	928
NURSING CARE	869	<i>Chambers and valves of the heart</i> 929; <i>Systemic, pulmonary and coronary circulation</i> 930; <i>The cardiac cycle and cardiac output</i> 931; <i>The conduction system of the heart</i> 934	
CHAPTER 27 Nursing care of people with kidney disorders	875	The peripheral vascular system	934
Renal insufficiency: towards a new understanding	876	<i>Structure of blood vessels</i> 934; <i>Physiology of arterial circulation</i> 937	
Age-related changes in kidney function	876	Structure and function of blood	938
The person with acute kidney injury	877	<i>Red blood cells</i> 938; <i>White blood cells</i> 941; <i>Platelets</i> 941; <i>Haemostasis</i> 941	
<i>Incidence and risk factors</i> 877; <i>Physiology review</i> 877; <i>Pathophysiology</i> 877; <i>Clinical course and manifestations of acute kidney injury</i> 882; <i>Diagnostics</i> 883		Structure and function of the lymphatic system	942
INTERPROFESSIONAL CARE	883	<i>Lymphatic system and the human brain</i> 943	
NURSING CARE	885	Health assessment and documentation	945
The person with kidney trauma	888	<i>Health assessment interview</i> 945; <i>Diagnostic tests of the cardiovascular and lymphatic systems</i> 945; <i>Physical assessment</i> 959; <i>Genetic considerations</i> 960	
<i>Pathophysiology and manifestations</i> 888		Interpretation of normal and aberrant data obtained from cardiovascular and lymphatic system assessment	961
INTERPROFESSIONAL CARE	889	CHAPTER 29 Nursing care of people with coronary heart disease	973
NURSING CARE	889	The person with coronary heart disease	974
The person with a renal tumour	889	<i>Incidence and prevalence</i> 974; <i>Physiology review</i> 974; <i>Pathophysiology</i> 974; <i>Risk factors</i> 978	
<i>Pathophysiology and manifestations</i> 889		INTERPROFESSIONAL CARE	982
INTERPROFESSIONAL CARE	889	The person with angina pectoris	983
NURSING CARE	890	<i>Pathophysiology</i> 983; <i>Course and manifestations</i> 985	
The person with a congenital kidney malformation	893	INTERPROFESSIONAL CARE	985
The person with chronic kidney disease	893	NURSING CARE	988
<i>The burden of kidney disease on Aboriginal and Torres Strait Islander peoples</i> 894; <i>Physiology review</i> 894; <i>Pathophysiology</i> 894		The person with acute coronary syndrome	990
The person with a renovascular disorder	897	<i>Pathophysiology</i> 990; <i>Manifestations</i> 990	
<i>Hypertension</i> 897; <i>Renal artery occlusion</i> 898; <i>Renal vein occlusion</i> 898; <i>Renal artery stenosis</i> 898; <i>Polycystic kidney disease</i> 898		INTERPROFESSIONAL CARE	990
Manifestations and complications of CKD	899	NURSING CARE	998
<i>Uraemia</i> 899; <i>Fluid and electrolyte effects</i> 899; <i>Cardiovascular effects</i> 899; <i>Haematological effects</i> 899; <i>Immune system effects</i> 901; <i>Gastrointestinal effects</i> 901; <i>Neurological effects</i> 901; <i>Musculoskeletal effects</i> 901; <i>Endocrine and metabolic effects</i> 901; <i>Dermatological effects</i> 901		The person with acute myocardial infarction	998
INTERPROFESSIONAL CARE	901	<i>Pathophysiology</i> 999; <i>Manifestations</i> 1000; <i>Complications</i> 1000	
NURSING CARE	905	INTERPROFESSIONAL CARE	1002
The person with end-stage kidney disease (kidney failure (CKD stage 5))	908	NURSING CARE	1006
<i>Kidney replacement therapy</i> 908; <i>Dialysis</i> 908; <i>Supportive care</i> 908; <i>Haemodialysis</i> 909; <i>Peritoneal dialysis</i> 911; <i>Continuous renal replacement therapy</i> 913		The person with a cardiac arrhythmia	1011
		<i>Physiology review</i> 1011; <i>Pathophysiology</i> 1012	
		INTERPROFESSIONAL CARE	1019
		NURSING CARE	1028

The person with sudden cardiac death <i>Pathophysiology 1031; Manifestations 1031</i>	1031	INTERPROFESSIONAL CARE	1086
INTERPROFESSIONAL CARE	1031	NURSING CARE	1093
NURSING CARE	1032	Secondary hypertension	1098
CHAPTER 30 Nursing care of people with cardiac disorders	1036	Hypertensive crisis	1099
The person with heart failure <i>Incidence, prevalence and risk factors 1037; Physiology review 1037; Pathophysiology 1039; Classifications and manifestations of heart failure 1040; Complications 1042</i>	1037	The person with an aneurysm <i>Pathophysiology and manifestations 1101</i>	1101
INTERPROFESSIONAL CARE	1042	INTERPROFESSIONAL CARE	1104
NURSING CARE	1046	NURSING CARE	1105
The person with pulmonary oedema <i>Pathophysiology 1050; Manifestations 1050</i>	1049	<i>Physiology review 1107</i>	
INTERPROFESSIONAL CARE	1050	The person with peripheral vascular disease <i>Incidence and risk factors 1107; Pathophysiology 1108; Manifestations and complications 1108</i>	1107
NURSING CARE	1051	INTERPROFESSIONAL CARE	1108
The person with rheumatic fever and rheumatic heart disease <i>Incidence, prevalence and risk factors 1052; Pathophysiology 1052; Manifestations 1053</i>	1052	NURSING CARE	1109
INTERPROFESSIONAL CARE	1053	Acute arterial occlusion <i>Pathophysiology 1112; Manifestations 1112</i>	1112
NURSING CARE	1054	INTERPROFESSIONAL CARE	1113
The person with infective endocarditis <i>Incidence and risk factors 1056; Pathophysiology 1056; Manifestations 1056; Complications 1057</i>	1056	NURSING CARE	1113
INTERPROFESSIONAL CARE	1057	The person with thromboangiitis obliterans <i>Incidence and risk factors 1114; Pathophysiology and course 1115; Manifestations and complications 1115</i>	1114
NURSING CARE	1057	INTERPROFESSIONAL CARE	1115
The person with myocarditis <i>Incidence and risk factors 1059; Pathophysiology 1059; Manifestations 1059; COVID-19 1059</i>	1059	NURSING CARE	1115
INTERPROFESSIONAL CARE	1060	The person with Raynaud's disease <i>Pathophysiology and manifestations 1116</i>	1116
NURSING CARE	1060	INTERPROFESSIONAL CARE	1116
The person with pericarditis <i>Pathophysiology 1060; Manifestations 1061; Complications 1061</i>	1060	NURSING CARE	1117
INTERPROFESSIONAL CARE	1062	<i>Physiology review 1117</i>	
NURSING CARE	1063	The person with venous thrombosis <i>Pathophysiology 1117</i>	1117
The person with valvular heart disease <i>Physiology review 1065; Pathophysiology 1065</i>	1064	INTERPROFESSIONAL CARE	1119
INTERPROFESSIONAL CARE	1070	NURSING CARE	1122
NURSING CARE	1072	The person with chronic venous insufficiency <i>Pathophysiology 1125; Manifestations 1125</i>	1125
The person with cardiomyopathy <i>Pathophysiology 1075</i>	1074	INTERPROFESSIONAL CARE	1126
INTERPROFESSIONAL CARE	1077	NURSING CARE	1126
NURSING CARE	1077	The person with varicose veins <i>Incidence and risk factors 1128; Pathophysiology 1128; Manifestations 1128; Complications 1128</i>	1128
CHAPTER 31 Nursing care of people with vascular and lymphatic disorders <i>Physiology review 1082</i>	1081	INTERPROFESSIONAL CARE	1128
Primary hypertension <i>Incidence and risk factors 1084; Pathophysiology 1085; Manifestations 1085; Complications 1086; COVID-19 1086</i>	1084	NURSING CARE	1129
		The person with lymphatic system compromise <i>Lymphadenopathy 1131; Lymphoedema 1131</i>	1131
		INTERPROFESSIONAL CARE	1132
		NURSING CARE	1132
		CHAPTER 32 Nursing care of people with haematological disorders	1137
		The person with anaemia <i>Physiology review 1138; Pathophysiology and manifestations 1138</i>	1138
		INTERPROFESSIONAL CARE	1146
		NURSING CARE	1148

The person with myelodysplastic syndrome <i>Pathophysiology 1151; Manifestations 1152</i>	1151	The lower respiratory system <i>The lungs 1194; The pleura 1195; The bronchi and alveoli 1196; The rib cage and intercostal muscles 1196</i>	1194
INTERPROFESSIONAL CARE	1152	Mechanics of ventilation	1196
NURSING CARE	1152	<i>Respiratory volume and capacity 1197; Air pressures 1198; Oxygen, carbon dioxide and hydrogen ion concentrations 1198; Airway resistance, lung compliance and elasticity 1199; Alveolar surface tension 1199</i>	
The person with polycythaemia <i>Pathophysiology 1153</i>	1153	Gas transport and affinity	1199
INTERPROFESSIONAL CARE	1154	<i>Blood gases 1199</i>	
NURSING CARE	1154	Assessing a person's respiratory function	1200
The person with leukaemia <i>Incidence and risk factors 1155; Physiology review 1155; Pathophysiology 1155; Manifestations 1155; Classifications 1156</i>	1155	<i>Health assessment interview 1200; Physical assessment 1200; Diagnostic tests 1201; Genetic considerations 1201</i>	
INTERPROFESSIONAL CARE	1160		
NURSING CARE	1162		
The person with malignant lymphoma <i>Incidence and risk factors 1167; Pathophysiology 1167</i>	1166	CHAPTER 34 Nursing care of people with upper respiratory disorders	1211
INTERPROFESSIONAL CARE	1168	The person with viral upper respiratory tract infection <i>Pathophysiology 1212; Manifestations and complications 1212</i>	1212
NURSING CARE	1170	INTERPROFESSIONAL CARE	1213
The person with multiple myeloma <i>Incidence and risk factors 1173; Pathophysiology 1173; Manifestations 1173</i>	1173	NURSING CARE	1214
INTERPROFESSIONAL CARE	1174	The person with respiratory syncytial virus	1215
NURSING CARE	1175	The person with influenza <i>Pathophysiology 1215; Manifestations 1215; Complications 1216</i>	1215
The person with neutropenia <i>Pathophysiology and manifestations 1176</i>	1176	INTERPROFESSIONAL CARE	1216
INTERPROFESSIONAL CARE	1176	NURSING CARE	1217
NURSING CARE	1176	The person with sinusitis <i>Physiology review 1218; Pathophysiology 1218; Manifestations and complications 1218</i>	1218
The person with thrombocytopenia <i>Physiology review 1177; Pathophysiology 1177</i>	1176	INTERPROFESSIONAL CARE	1219
INTERPROFESSIONAL CARE	1178	NURSING CARE	1219
NURSING CARE	1178	The person with pharyngitis or tonsillitis <i>Pathophysiology and manifestations 1220; Complications 1221</i>	1220
The person with haemophilia <i>Physiology review 1180; Pathophysiology 1180; Manifestations 1180</i>	1179	INTERPROFESSIONAL CARE	1221
INTERPROFESSIONAL CARE	1181	NURSING CARE	1222
NURSING CARE	1181	The person with a laryngeal infection <i>Epiglottitis 1222; Laryngitis 1223</i>	1222
The person with disseminated intravascular coagulation <i>Pathophysiology 1183; Manifestations 1184</i>	1183	The person with pertussis <i>Pathophysiology 1223; Manifestations 1223</i>	1223
INTERPROFESSIONAL CARE	1184	INTERPROFESSIONAL CARE	1223
NURSING CARE	1185	NURSING CARE	1224
Appendix: Essentials for nurses: COVID-19	A-1	The person with epistaxis <i>Pathophysiology and manifestations 1224</i>	1224
Glossary	G-1	INTERPROFESSIONAL CARE	1225
Index	I-1	NURSING CARE	1226
		The person with nasal trauma or surgery <i>Pathophysiology and manifestations 1227; Complications 1227</i>	1227
VOLUME 3		INTERPROFESSIONAL CARE	1228
UNIT 9		NURSING CARE	1228
Responses to altered respiratory function	1191		
CHAPTER 33 A person-centred approach to assessing the respiratory system	1192		
The upper respiratory system <i>The nose 1193; The sinuses 1193; The pharynx 1194; The larynx 1194; The trachea 1194</i>	1193		

The person with laryngeal obstruction or trauma <i>Pathophysiology and manifestations</i> 1229	1229	The person with haemothorax	1275
INTERPROFESSIONAL CARE	1230	The person with a thoracic injury <i>Pathophysiology and manifestations</i> 1276	1276
NURSING CARE	1230	INTERPROFESSIONAL CARE	1277
The person with obstructive sleep apnoea (OSA) <i>Risk factors</i> 1231; <i>Pathophysiology</i> 1231; <i>Manifestations</i> 1231; <i>Complications</i> 1231	1230	NURSING CARE	1277
INTERPROFESSIONAL CARE	1231	The person with inhalation injury <i>Pathophysiology and manifestations</i> 1279	1278
NURSING CARE	1232	INTERPROFESSIONAL CARE	1279
The person with nasal polyps <i>Pathophysiology and manifestations</i> 1233	1233	NURSING CARE	1281
INTERPROFESSIONAL CARE	1233	The person with lung cancer <i>Incidence and risk factors</i> 1282; <i>Pathophysiology</i> 1283; <i>Manifestations</i> 1284; <i>Complications and course</i> 1284	1282
NURSING CARE	1233	INTERPROFESSIONAL CARE	1284
The person with a laryngeal tumour <i>Risk factors</i> 1233; <i>Pathophysiology and manifestations</i> 1233	1233	NURSING CARE	1287
INTERPROFESSIONAL CARE	1234	CHAPTER 36 Nursing care of people with gas exchange disorders	1294
NURSING CARE	1238	The person with asthma <i>Prevalence and risk factors</i> 1295; <i>Physiology review</i> 1296; <i>Pathophysiology</i> 1296; <i>Manifestations and complications</i> 1298	1295
CHAPTER 35 Nursing care of people with ventilation disorders	1245	INTERPROFESSIONAL CARE	1299
The person with acute bronchitis <i>Pathophysiology and manifestations</i> 1247	1247	NURSING CARE	1305
INTERPROFESSIONAL CARE	1247	Chronic obstructive pulmonary disease <i>Incidence and risk factors</i> 1308; <i>Pathophysiology</i> 1308; <i>Manifestations</i> 1309	1308
NURSING CARE	1247	INTERPROFESSIONAL CARE	1310
The person with pneumonia <i>Physiology review</i> 1248; <i>Pathophysiology</i> 1248	1248	NURSING CARE	1314
INTERPROFESSIONAL CARE	1252	The person with cystic fibrosis <i>Incidence and prevalence</i> 1320; <i>Pathophysiology</i> 1320; <i>Manifestations</i> 1321	1320
NURSING CARE	1254	INTERPROFESSIONAL CARE	1321
The person with lung abscess <i>Pathophysiology and manifestations</i> 1258	1258	NURSING CARE	1322
INTERPROFESSIONAL CARE	1259	The person with atelectasis	1323
NURSING CARE	1259	The person with bronchiectasis	1323
The person with tuberculosis <i>Incidence and prevalence</i> 1259; <i>Risk factors</i> 1259; <i>Pathophysiology</i> 1260	1259	The person with an occupational lung disease <i>Physiology review</i> 1324; <i>Pathophysiology and manifestations</i> 1324	1324
INTERPROFESSIONAL CARE	1264	INTERPROFESSIONAL CARE	1325
NURSING CARE	1265	NURSING CARE	1325
The person with a fungal infection <i>Pneumocystis carinii pneumonia</i> 1267; <i>Aspergillosis</i> 1267	1267	The person with sarcoidosis	1326
INTERPROFESSIONAL CARE	1267	The person with pulmonary embolism <i>Incidence and risk factors</i> 1327; <i>Physiology review</i> 1327; <i>Pathophysiology</i> 1327; <i>Manifestations</i> 1328	1327
NURSING CARE	1268	INTERPROFESSIONAL CARE	1328
The person with pleuritis	1268	NURSING CARE	1329
The person with a pleural effusion <i>Pathophysiology and manifestations</i> 1269	1269	The person with pulmonary hypertension <i>Pathophysiology</i> 1331; <i>Manifestations</i> 1332; <i>Complications</i> 1332	1331
INTERPROFESSIONAL CARE	1269	INTERPROFESSIONAL CARE	1332
NURSING CARE	1269	NURSING CARE	1332
The person with pneumothorax <i>Pathophysiology</i> 1271	1271	The person with acute respiratory failure <i>Pathophysiology</i> 1333; <i>Manifestations and course</i> 1334	1333
INTERPROFESSIONAL CARE	1273		
NURSING CARE	1273		

INTERPROFESSIONAL CARE	1334	INTERPROFESSIONAL CARE	1420
NURSING CARE	1342	NURSING CARE	1421
The person with acute respiratory distress syndrome <i>Pathophysiology 1346; Manifestations 1347</i>	1346	The person with gout <i>Pathophysiology 1422; Manifestations 1423; Complications 1423</i>	1422
INTERPROFESSIONAL CARE	1347	INTERPROFESSIONAL CARE	1423
NURSING CARE	1348	NURSING CARE	1426
UNIT 10		The person with osteomalacia <i>Pathophysiology 1427; Manifestations 1427</i>	1426
Responses to altered musculoskeletal function	1356	INTERPROFESSIONAL CARE	1428
CHAPTER 37 A person-centred approach to assessing the musculoskeletal system	1357	NURSING CARE	1428
<i>The skeleton 1358; Muscles 1360; Joints, ligaments and tendons 1363</i>	1357	The person with osteoarthritis <i>Risk factors 1429; Pathophysiology 1429; Manifestations 1430; Complications 1430</i>	1429
Assessing musculoskeletal function	1364	INTERPROFESSIONAL CARE	1430
<i>Health assessment interview 1364; Physical assessment 1364; Diagnostic tests 1366; Genetic considerations 1369</i>	1364	NURSING CARE	1434
CHAPTER 38 Nursing care of people with musculoskeletal trauma	1376	The person with muscular dystrophy <i>Pathophysiology 1437; Manifestations 1437</i>	1437
The person with a contusion, strain or sprain <i>Pathophysiology and manifestations 1377</i>	1377	INTERPROFESSIONAL CARE	1437
INTERPROFESSIONAL CARE	1377	NURSING CARE	1438
NURSING CARE	1378	The person with rheumatoid arthritis <i>Pathophysiology 1439; Joint manifestations 1439; Extra-articular manifestations 1440; Increased risk of coronary heart disease 1440; Juvenile rheumatoid arthritis 1442</i>	1438
The person with a joint dislocation <i>Pathophysiology 1378; Manifestations 1379</i>	1378	INTERPROFESSIONAL CARE	1442
INTERPROFESSIONAL CARE	1379	NURSING CARE	1446
NURSING CARE	1379	The person with ankylosing spondylitis <i>Pathophysiology 1449; Manifestations 1449</i>	1449
The person with a fracture <i>Pathophysiology 1380; Fracture healing 1380; Manifestations 1381; Complications 1381</i>	1379	INTERPROFESSIONAL CARE	1449
INTERPROFESSIONAL CARE	1385	NURSING CARE	1449
<i>Fractures of specific bones or bony areas 1390</i>	1385	The person with reactive arthritis <i>Manifestations 1450</i>	1449
NURSING CARE	1395	INTERPROFESSIONAL CARE	1450
The person with an amputation <i>Causes of amputation 1399; Levels of amputation 1400; Types of amputation 1400; Amputation site healing 1400; Complications 1401</i>	1399	NURSING CARE	1450
INTERPROFESSIONAL CARE	1402	The person with systemic lupus erythematosus <i>Pathophysiology 1450; Manifestations 1452</i>	1450
NURSING CARE	1402	INTERPROFESSIONAL CARE	1452
The person with a repetitive use injury <i>Pathophysiology 1406</i>	1406	NURSING CARE	1454
INTERPROFESSIONAL CARE	1407	The person with polymyositis <i>Manifestations 1456</i>	1455
NURSING CARE	1407	INTERPROFESSIONAL CARE	1456
CHAPTER 39 Nursing care of people with musculoskeletal disorders	1410	NURSING CARE	1456
The person with osteoporosis <i>Risk factors 1411; Pathophysiology 1413; Manifestations 1413; Complications 1413</i>	1411	The person with osteomyelitis <i>Pathophysiology 1456; Manifestations 1457</i>	1456
INTERPROFESSIONAL CARE	1413	INTERPROFESSIONAL CARE	1458
NURSING CARE	1416	NURSING CARE	1459
The person with Paget's disease <i>Pathophysiology 1419; Manifestations 1419; Complications 1419</i>	1419	The person with septic arthritis <i>Pathophysiology 1460; Manifestations 1460</i>	1460
		INTERPROFESSIONAL CARE	1460
		NURSING CARE	1460

The person with bone tumours <i>Pathophysiology 1461; Manifestations 1462</i>	1461	The person with epilepsy <i>Incidence and prevalence 1524; Pathophysiology 1525; Manifestations 1525</i>	1524
INTERPROFESSIONAL CARE	1462	INTERPROFESSIONAL CARE	1527
NURSING CARE	1463	NURSING CARE	1529
The person with systemic sclerosis (scleroderma) <i>Pathophysiology 1464; Manifestations 1464</i>	1464	The person with a skull fracture <i>Pathophysiology 1532</i>	1532
INTERPROFESSIONAL CARE	1465	INTERPROFESSIONAL CARE	1532
NURSING CARE	1465	NURSING CARE	1532
The person with Sjögren's syndrome <i>Pathophysiology 1466;</i>	1466	The person with a focal or diffuse traumatic brain injury <i>Pathophysiology 1533</i>	1533
INTERPROFESSIONAL CARE	1466	INTERPROFESSIONAL CARE	1536
NURSING CARE	1466	NURSING CARE	1537
The person with fibromyalgia <i>Pathophysiology 1466; Manifestations 1466</i>	1466	The person with a central nervous system infection <i>Pathophysiology 1540</i>	1540
INTERPROFESSIONAL CARE	1467	INTERPROFESSIONAL CARE	1542
NURSING CARE	1467	NURSING CARE	1543
The person with spinal deformities <i>Pathophysiology 1468</i>	1467	The person with a brain tumour <i>Incidence and prevalence 1546; Pathophysiology 1546; Manifestations 1547</i>	1545
INTERPROFESSIONAL CARE	1469	INTERPROFESSIONAL CARE	1547
NURSING CARE	1469	NURSING CARE	1548
The person with common foot disorders <i>Pathophysiology 1470</i>	1470	CHAPTER 42 Nursing care of people with cerebrovascular and spinal cord disorders	1554
INTERPROFESSIONAL CARE	1471	The person with a stroke <i>Incidence and prevalence 1555; Risk factors 1555; Pathophysiology 1556; Manifestations 1558; Complications 1558</i>	1555
NURSING CARE	1471	INTERPROFESSIONAL CARE	1560
UNIT 11		NURSING CARE	1563
Responses to altered neurological function	1476	The person with an intracranial aneurysm <i>Incidence and prevalence 1568; Pathophysiology 1569; Manifestations 1569; Complications 1569</i>	1568
CHAPTER 40 A person-centred approach to assessing the nervous system	1477	INTERPROFESSIONAL CARE	1570
<i>Nerve cells, action potentials and neurotransmitters 1478; The central nervous system 1480; The peripheral nervous system 1484; The autonomic nervous system 1485</i>		NURSING CARE	1570
Assessing neurological function <i>Health assessment interview 1487; Physical assessment 1488; Diagnostic tests 1489; Genetic considerations 1490</i>	1486	The person with an arteriovenous malformation <i>Pathophysiology 1571</i>	1571
CHAPTER 41 Nursing care of people with intracranial disorders	1503	INTERPROFESSIONAL CARE	1572
The person with altered level of consciousness <i>Pathophysiology 1505; Prognosis 1508</i>	1504	NURSING CARE	1572
INTERPROFESSIONAL CARE	1508	The person with a spinal cord injury <i>Incidence and prevalence 1572; Risk factors 1572; Pathophysiology 1572; Manifestations 1574; Complications 1575</i>	1572
NURSING CARE	1509	INTERPROFESSIONAL CARE	1576
The person with increased intracranial pressure <i>Pathophysiology 1512; Manifestations 1512; Cerebral oedema 1513; Hydrocephalus 1513; Brain herniation 1514</i>	1511	NURSING CARE	1578
INTERPROFESSIONAL CARE	1514	The person with a herniated intervertebral disc <i>Incidence and prevalence 1583; Pathophysiology 1584; Lumbar disc manifestations 1584; Cervical disc manifestations 1585</i>	1583
NURSING CARE	1517	INTERPROFESSIONAL CARE	1585
The person with a headache <i>Pathophysiology 1519</i>	1519	NURSING CARE	1587
INTERPROFESSIONAL CARE	1520	The person with a spinal cord tumour <i>Classification 1589; Pathophysiology 1589; Manifestations 1589</i>	1589
NURSING CARE	1523		

INTERPROFESSIONAL CARE	1590	The person with COVID-19	1638
NURSING CARE	1590	<i>Nervous system consequences of COVID-19 1638; Pathophysiology 1638; Manifestations 1639</i>	
CHAPTER 43 Nursing care of people with neurological disorders	1593	INTERPROFESSIONAL CARE	1639
Dementia	1594	NURSING CARE	1639
The person with Alzheimer's disease	1595	The person with rabies	1639
<i>Incidence and prevalence 1595; Risk factors and warning signs 1595; Pathophysiology 1595; Manifestations 1596</i>		<i>Pathophysiology 1639; Manifestations 1639</i>	
INTERPROFESSIONAL CARE	1597	INTERPROFESSIONAL CARE	1640
NURSING CARE	1599	NURSING CARE	1640
The person with multiple sclerosis	1603	The person with tetanus	1640
<i>Incidence and prevalence 1603; Pathophysiology 1603; Manifestations 1603</i>		<i>Pathophysiology 1640; Manifestations 1640</i>	
INTERPROFESSIONAL CARE	1607	INTERPROFESSIONAL CARE	1641
NURSING CARE	1609	NURSING CARE	1641
The person with Parkinson's disease	1611	The person with botulism	1641
<i>Incidence and prevalence 1611; Pathophysiology 1611; Manifestations 1612; Complications 1613</i>		<i>Pathophysiology 1642; Manifestations 1642</i>	
INTERPROFESSIONAL CARE	1613	INTERPROFESSIONAL CARE	1642
NURSING CARE	1616	NURSING CARE	1642
The person with Huntington's disease	1619		
<i>Pathophysiology 1619; Manifestations 1619</i>			
INTERPROFESSIONAL CARE	1620	UNIT 12	
NURSING CARE	1620	Responses to altered visual and auditory function	1647
The person with motor neurone disease	1622	CHAPTER 44 A person-centred approach to assessing the eye and ear	1648
<i>Pathophysiology 1622; Manifestations 1622</i>		<i>Extraocular structures 1649; Intraocular structures 1649; The visual pathway 1651; Refraction 1651</i>	
INTERPROFESSIONAL CARE	1622	Assessing the eyes	1652
NURSING CARE	1623	<i>Health assessment interview 1652; Physical assessment of the eyes and vision 1652; Diagnostic tests 1654; Genetic considerations 1655</i>	
The person with myasthenia gravis	1624	The external ear	1660
<i>Pathophysiology 1624; Manifestations 1624; Complications 1625</i>		The middle ear	1660
INTERPROFESSIONAL CARE	1626	The inner ear	1661
NURSING CARE	1628	<i>Sound conduction 1662; Equilibrium 1662</i>	
The person with Guillain-Barré syndrome	1630	Assessing the ears	1662
<i>Pathophysiology 1630; Manifestations 1630</i>		<i>Health assessment interview 1662; Physical assessment of the ears and hearing 1663; Diagnostic tests 1665; Genetic considerations 1665</i>	
INTERPROFESSIONAL CARE	1631	CHAPTER 45 Nursing care of people with eye and ear disorders	1670
NURSING CARE	1632	The person with conjunctivitis	1672
The person with trigeminal neuralgia	1633	<i>Pathophysiology and manifestations 1672</i>	
<i>Pathophysiology 1633; Manifestations 1633</i>		INTERPROFESSIONAL CARE	1673
INTERPROFESSIONAL CARE	1633	NURSING CARE	1673
NURSING CARE	1634	The person with a corneal disorder	1675
The person with Bell's palsy	1635	<i>Physiology review 1675; Pathophysiology and manifestations 1675</i>	
<i>Pathophysiology 1635; Manifestations 1635</i>		INTERPROFESSIONAL CARE	1676
INTERPROFESSIONAL CARE	1636	NURSING CARE	1677
NURSING CARE	1636	Disorders affecting the eyelids	1679
The person with Creutzfeldt-Jakob disease	1636	<i>Pathophysiology and manifestations 1679</i>	
<i>Pathophysiology 1637; Manifestations 1637</i>		INTERPROFESSIONAL CARE	1680
INTERPROFESSIONAL CARE	1637	NURSING CARE	1680
NURSING CARE	1637		
The person with postpoliomyelitis syndrome	1637		
<i>Pathophysiology 1638; Manifestations 1638</i>			
INTERPROFESSIONAL CARE	1638		
NURSING CARE	1638		

The person with eye trauma	1681	The person with an acoustic neuroma	1709
<i>Pathophysiology and manifestations 1681</i>		The person with hearing loss	1709
INTERPROFESSIONAL CARE	1681	<i>Pathophysiology and manifestations 1709</i>	
NURSING CARE	1682	INTERPROFESSIONAL CARE	1710
The person with uveitis	1683	NURSING CARE	1712
The person with cataracts	1683		
<i>Incidence and risk factors 1683; Pathophysiology 1683; Manifestations 1683</i>		UNIT 13	
INTERPROFESSIONAL CARE	1683	Responses to altered reproductive function	1718
NURSING CARE	1684		
The person with glaucoma	1685	CHAPTER 46 A person-centred approach to assessing the male and female reproductive systems	1719
<i>Incidence and risk factors 1685; Pathophysiology 1685</i>		<i>The breasts 1720; The penis 1720; The scrotum 1720; The testes 1720; The ducts and semen 1721; The prostate gland 1721; Spermatogenesis 1721; Functions of the male sex hormones 1721</i>	
INTERPROFESSIONAL CARE	1687	Assessing the male reproductive system	1721
NURSING CARE	1690	<i>Health assessment interview 1722; Physical assessment 1724; Diagnostic tests 1724; Genetic considerations 1728; The breasts 1728; The external genitalia 1728; The internal organs 1730; Functions of the female sex hormones 1731; Oogenesis and the ovarian cycle 1731; The menstrual cycle 1732</i>	
The person with age-related macular degeneration	1693	Assessing the female reproductive system	1732
<i>Pathophysiology 1693; Manifestations 1693</i>		<i>Health assessment interview 1732; Physical assessment 1733; Diagnostic tests 1736; Genetic considerations 1739</i>	
INTERPROFESSIONAL CARE	1693	CHAPTER 47 Nursing care of men with reproductive system and breast disorders	1746
NURSING CARE	1693		
The person with diabetic retinopathy	1694	The man with erectile dysfunction	1747
<i>Pathophysiology and manifestations 1694</i>		<i>Pathophysiology 1748</i>	
INTERPROFESSIONAL CARE	1695	INTERPROFESSIONAL CARE	1748
NURSING CARE	1695	NURSING CARE	1749
The person with a retinal detachment	1695	The man with ejaculatory dysfunction	1750
<i>Pathophysiology and manifestations 1695</i>		The man with phimosis or priapism	1751
INTERPROFESSIONAL CARE	1696	<i>Pathophysiology 1751</i>	
NURSING CARE	1696	INTERPROFESSIONAL CARE	1751
The person with retinitis pigmentosa	1697	NURSING CARE	1751
The person with HIV infection	1697	The man with cancer of the penis	1751
The person with an enucleation	1697	<i>Pathophysiology 1752</i>	
The person with otitis externa	1698	INTERPROFESSIONAL CARE	1752
<i>Pathophysiology and manifestations 1699</i>		NURSING CARE	1752
INTERPROFESSIONAL CARE	1699	The man with a benign scrotal mass	1752
NURSING CARE	1699	<i>Pathophysiology 1752</i>	
The person with impacted cerumen or a foreign body	1700	NURSING CARE	1753
<i>Pathophysiology and manifestations 1700</i>		The man with epididymitis	1753
INTERPROFESSIONAL CARE	1700	INTERPROFESSIONAL CARE	1753
NURSING CARE	1701	NURSING CARE	1753
The person with otitis media	1701	The man with orchitis	1754
<i>Pathophysiology 1701</i>		INTERPROFESSIONAL CARE	1754
INTERPROFESSIONAL CARE	1702	NURSING CARE	1754
NURSING CARE	1703	The man with testicular torsion	1754
The person with acute mastoiditis	1703	The man with testicular cancer	1754
<i>Pathophysiology and complications 1704; Manifestations 1704</i>		<i>Risk factors 1754; Pathophysiology 1754; Manifestations 1754</i>	
INTERPROFESSIONAL CARE	1704	INTERPROFESSIONAL CARE	1754
NURSING CARE	1704	NURSING CARE	1755
The person with chronic otitis media	1705		
The person with otosclerosis	1705		
The person with an inner ear disorder	1706		
<i>Pathophysiology and manifestations 1706</i>			
INTERPROFESSIONAL CARE	1707		
NURSING CARE	1708		

The man with prostatitis <i>Pathophysiology and manifestations 1756</i>	1756	INTERPROFESSIONAL CARE	1790
INTERPROFESSIONAL CARE	1757	NURSING CARE	1790
NURSING CARE	1757	The woman with cervical cancer <i>Risk factors 1792; Pathophysiology 1792; Manifestations 1793</i>	1792
The man with benign prostatic hyperplasia <i>Risk factors 1758; Pathophysiology 1758; Manifestations 1758; Complications 1758</i>	1757	INTERPROFESSIONAL CARE	1793
INTERPROFESSIONAL CARE	1759	NURSING CARE	1793
NURSING CARE	1760	The woman with endometrial cancer <i>Risk factors 1796; Pathophysiology 1796; Manifestations 1796</i>	1796
The man with prostate cancer <i>Risk factors 1764; Pathophysiology 1764; Manifestations 1764; Complications 1764</i>	1764	INTERPROFESSIONAL CARE	1796
INTERPROFESSIONAL CARE	1764	NURSING CARE	1797
NURSING CARE	1768	The woman with ovarian cancer <i>Risk factors 1797; Pathophysiology 1798; Manifestations 1798; Complications 1798</i>	1797
The man with gynaecomastia	1771	INTERPROFESSIONAL CARE	1798
The man with breast cancer	1771	NURSING CARE	1799
CHAPTER 48 Nursing care of women with reproductive system and breast disorders	1774	The woman with cancer of the vulva <i>Pathophysiology 1799; Manifestations 1799</i>	1799
Disorders of female sexual function <i>Pathophysiology 1776</i>	1775	INTERPROFESSIONAL CARE	1800
NURSING CARE	1776	NURSING CARE	1800
The woman with premenstrual syndrome <i>Pathophysiology 1777; Manifestations 1777</i>	1777	Menopause <i>The physiology of menopause 1801; Manifestations 1801</i>	1801
INTERPROFESSIONAL CARE	1777	INTERPROFESSIONAL CARE	1801
NURSING CARE	1777	NURSING CARE	1802
The woman with dysmenorrhoea <i>Pathophysiology 1779; Manifestations 1779</i>	1779	The woman with a benign breast disorder <i>Pathophysiology and manifestations 1804</i>	1804
INTERPROFESSIONAL CARE	1779	INTERPROFESSIONAL CARE	1805
NURSING CARE	1781	NURSING CARE	1805
The woman with dysfunctional uterine bleeding <i>Pathophysiology 1781</i>	1781	The woman with breast cancer <i>Risk factors 1805; Pathophysiology 1806; Manifestations 1807</i>	1805
INTERPROFESSIONAL CARE	1782	INTERPROFESSIONAL CARE	1807
NURSING CARE	1784	NURSING CARE	1810
The woman with a uterine displacement <i>Pathophysiology 1785; Manifestations 1785</i>	1784	CHAPTER 49 Nursing care of people who have sexually transmitted infections	1818
INTERPROFESSIONAL CARE	1786	<i>Incidence and prevalence 1819; Pathophysiology, manifestations and nursing care 1819; Prevention and control 1820</i>	
NURSING CARE	1786	The person with genital herpes <i>Pathophysiology 1821; Manifestations 1821</i>	1821
The woman with a vaginal fistula	1787	INTERPROFESSIONAL CARE	1822
INTERPROFESSIONAL CARE	1787	NURSING CARE	1822
NURSING CARE	1787	The person with genital warts <i>Prevention 1823; Pathophysiology 1824; Manifestations 1824</i>	1823
The woman with cysts or polyps <i>Pathophysiology 1788; Manifestations and complications 1788</i>	1788	INTERPROFESSIONAL CARE	1824
INTERPROFESSIONAL CARE	1788	NURSING CARE	1824
NURSING CARE	1789	The person with a vaginal infection <i>Pathophysiology and manifestations 1826</i>	1826
The woman with leiomyoma <i>Pathophysiology 1789; Manifestations 1789</i>	1789		
INTERPROFESSIONAL CARE	1789		
NURSING CARE	1790		
The woman with endometriosis <i>Pathophysiology 1790; Manifestations 1790</i>	1790		

INTERPROFESSIONAL CARE	1827	Models of health and community care	1866
NURSING CARE	1827	<i>The biomedical model of health 1866; The biopsychosocial model of health 1866; The social model of health 1866</i>	
The person with chlamydia	1828	Social determinants and community health	1867
<i>Pathophysiology 1828; Manifestations 1828; Complications 1828</i>		<i>Early life factors 1868; Income and socioeconomic conditions 1868; Living conditions 1868; Other factors 1868; Levels of determinants and interventions 1869</i>	
INTERPROFESSIONAL CARE	1828	Primary healthcare	1869
NURSING CARE	1829	<i>Primary healthcare 1869; Primary care 1870; Population-based services 1870</i>	
The person with gonorrhoea	1829	Health education and health promotion	1870
<i>Pathophysiology 1829; Manifestations 1829; Complications 1830</i>		<i>Individualist health promotion 1870; Structuralist-collectivist health promotion 1871</i>	
INTERPROFESSIONAL CARE	1830	Nurses and community care	1871
NURSING CARE	1830	<i>Initiating courageous end-of-life conversations in the community 1872; Advance care planning (ACP) 1873; General practice nursing 1873; Managing acute illness at home 1874</i>	
The person with syphilis	1832	The way forward	1875
<i>Pathophysiology 1832; Manifestations 1832</i>			
INTERPROFESSIONAL CARE	1833	CHAPTER 52 Nursing care of people in regional and remote areas of Australia	1878
NURSING CARE	1834	Challenges and rewards	1879
The person with pelvic inflammatory disease	1836	The differences between 'regional' and 'remote'	1879
<i>Pathophysiology 1836; Manifestations 1836; Complications 1836</i>		<i>Regional and remote nursing 1880</i>	
INTERPROFESSIONAL CARE	1836	Primary healthcare and regional and remote nursing	1882
NURSING CARE	1837	<i>Primary healthcare and social determinants of health 1882</i>	
		Indigenous health considerations in regional and remote areas	1883
UNIT 14	1840	<i>Working in an Indigenous community 1883</i>	
Special topics in medical-surgical nursing		The regional and remote nursing workforce	1884
CHAPTER 50 Mental healthcare in the Australian context	1841	<i>Competency to practise 1884</i>	
Mental health and mental illness	1842	Role of the nurse in regional and remote Australia	1886
<i>Diagnosis 1843; Defining mental health and mental illness 1844; Stigma 1844; The role of the mental health nurse 1846; Mental health legislation 1849; Recovery 1850</i>		<i>Health promotion 1886; Screening and prevention strategies 1887; Acute assessment 1887; Emergency nursing care 1887; Establishing boundaries 1890; Teleconsultations/videoconsultations 1891; Liaison and advocacy 1892; Provision of care for the person from a regional or remote area 1892</i>	
Mental state examination (MSE)	1852	Appendix: Essentials for nurses: COVID-19	A-1
Types of mental illness	1854	Glossary	G-1
<i>Psychotic disorders 1854; Non-psychotic disorders 1857; Treatments in mental health 1858</i>		Index	I-1
CHAPTER 51 Community care	1861		
Introduction	1862		
What is a community?	1862		
Community care in Australia	1862		