

Contents

Preface	v
Glossary	xv
Introduction: preparation for the exam	xix
Chapter 1	
Cardiovascular system (station 3)	1
Systolic murmur	
Case 1: Aortic stenosis	2
Case 2: Mitral regurgitation	5
Case 3: Ventricular septal defect	8
Case 4: Hypertrophic obstructive cardiomyopathy	10
Case 5: Tricuspid regurgitation	12
Case 6: Pulmonary stenosis	15
Diastolic murmur	
Case 7: Mitral stenosis	16
Case 8: Aortic regurgitation	19
Case 9: Pulmonary regurgitation	21
Mixed valve disease: distinguishing the dominant murmur	
Case 10: Mixed aortic valve disease	24
Case 11: Mixed mitral valve disease	25
Scars and clicks - the cardiothoracic patient	
Case 12: Prosthetic valves and cardiac surgery	26
Oedema, crepitations, and a raised jugular venous pressure: the failing heart	
Case 13: Cardiac failure	30
Case 14: The infraclavicular mass – pacemakers implantable devices	33
Abnormal pulses	
Case 15: The irregular pulse: atrial fibrillation	36
Case 16: Coarctation of the aorta	38
Splinter haemorrhages and a murmur: the infected valve	
Case 17: Infective endocarditis	40
Congenital heart disease and complex cases	
Case 18: Pulmonary hypertension	43
Case 19: Atrial septal defect	45
Case 20: Patent ductus arteriosus	46
Case 21: Ebstein's anomaly: the cyanosed patient with a murmur	48
Case 22: Tetralogy of Fallot	50
Case 23: Eisenmenger's syndrome	51
Case 24: Dextrocardia	54
Chapter 2	
Nervous system (station 3)	55
Examination of cranial nerves: visual field defects	
Case 25: Monocular blindness	56
Case 26: Homonymous hemianopia	57
Case 27: Bitemporal hemianopia	58
Case 28: Homonymous quadrantanopia	59

Examination of cranial nerves: ophthalmoplegia	
Case 29: Sixth nerve palsy	60
Case 30: Fourth nerve palsy	62
Case 31: Internuclear ophthalmoplegia – multiple sclerosis	63
Examination of cranial nerves: pupillary problems with ptosis	
Case 32: Ptosis, large pupil and ophthalmoplegia: third nerve palsy	65
Case 33: Ptosis and small pupil: Horner syndrome	67
Case 34: Bilateral ptosis with fatigability: myasthenia gravis	68
Examination of cranial nerves: pupillary problems without ptosis	
Case 35: Relative afferent pupillary defect (RAPD)	70
Case 36: Unilateral large pupil in a young female – Holmes–Adie pupil	72
Case 37: Bilateral small pupils: Argyll Robertson pupils	73
Examination of cranial nerves: cranial nerves V, VII and VIII	
Case 38: Facial weakness	74
Case 39: Conductive hearing loss	76
Case 40: Sensorineural hearing loss	78
Case 41: V, VII, VIII cranial nerves – cerebellopontine angle	79
Examination of cranial nerves: assessment of speech	
Case 42: Dysphasia	81
Case 43: Dysarthria – bulbar palsy	82
Examination of cranial nerves: complex presentations	
Case 44: Lateral medullary syndrome	84
Case 45: Jugular foramen syndrome	85
Examination of upper limbs: weakness	
Case 46: Myotonic dystrophy	86
Case 47: Cervical myelopathy	88
Case 48: Unilateral arm weakness – neuralgic amyotrophy	89
Examination of upper limbs: tremor and assessment of coordination	
Case 49: Resting tremor – Parkinsonism	90
Case 50: Intention tremor and problems with co-ordination – cerebellar syndrome	92
Examination of upper limbs: spinal cord syndromes	
Case 51: Central cord syndrome – syringomyelia	93
Case 52: Brown–Séquard (hemi-cord) syndrome	96
Case 53: Anterior cord syndrome	98
Examination of lower limbs: weakness	
Case 54: Spastic paraparesis	100
Case 55: Proximal myopathy	101
Examination of lower limbs: sensory disturbance	
Case 56: Glove and stocking distributions – sensory polyneuropathy	102
Examination of lower limbs: the deformed foot – pes cavus	
Case 57: Friedreich's ataxia	104
Case 58: Charcot–Marie–Tooth disease (hereditary sensorimotor neuropathy– type 1)	105

Examination of lower limbs: assessment of gait		
Case 59: Shuffling gait – Parkinson's disease	106	
Case 60: Ataxic gait	107	
Case 61: Unilateral high-stepping gait	107	
Case 62: Spastic hemi-paretic gait	108	
Case 63: Waddling gait	110	
Examination of lower limbs: cases of note		
Case 64: Cauda equina syndrome	110	
Case 65: Absent ankle jerks with extensor plantar reflexes – sub-acute degeneration of the cord	112	
<hr/>		
Chapter 3	Respiratory system (station 1)	115
Crepitations		
Case 66: Pulmonary fibrosis	116	
Case 67: Consolidation	118	
Case 68: Bronchiectasis	120	
Dullness to percussion		
Case 69: Pleural effusion	122	
Case 70: Collapse	124	
Wheeze		
Case 71: Chronic obstructive pulmonary disease	125	
Chest wall scars: the thoracic surgery patient		
Case 72: Lobectomy	128	
Case 73: Pneumonectomy	129	
Case 74: Lung transplantation	130	
Diagnostic clues in the respiratory patient: facial signs		
Case 75: Pheochromocytoma – superior vena cava obstruction	131	
Case 76: Horner's syndrome: Pancoast's tumour	133	
Case 77: Cushingoid appearance	135	
Diagnostic clues in the respiratory patient: peripheral signs		
Case 78: Abnormal nails with pleural effusions and lymphadenopathy – yellow nail syndrome	136	
Case 79: Signs of right-sided heart failure – cor pulmonale	138	
<hr/>		
Chapter 4	Abdominal system (station 1)	141
The liver patient		
Case 80: The syndrome of chronic liver disease	142	
Case 81: Organomegaly – isolated hepatomegaly	146	
Case 82: The distended abdomen – ascites	147	
Case 83: Portal hypertension	149	
Case 84: Abnormal skin pigmentation – jaundice	151	
Case 85: Abnormal skin pigmentation – haemachromatosis	154	
Case 86: Periorbital xanthelasma – primary biliary cirrhosis	156	
The renal patient		
Case 87: The patient requiring renal replacement therapy	157	
Case 88: Bilateral ballotable kidneys	159	

	Case 89: Iliac fossa scar with a palpable mass – renal transplant	160
	Case 90: Flank scar – nephrectomy	162
	Spleen and other abdominal cases	
	Case 91: Splenomegaly	163
	Case 92: Felty's syndrome	165
	Case 93: Multiple abdominal scars	166
	Case 94: Rooftop incision	167
	Case 95: Obesity with evidence of laparoscopic procedure	169
<hr/>		
Chapter 5	Station 5	171
	Hands: symmetrical deforming polyarthropathy	
	Case 96: Rheumatoid arthritis	172
	Case 97: Psoriatic arthritis	175
	Case 98: Jaccoud's arthropathy	177
	Hands: disease distal interphalangeal joints	
	Case 99: Osteoarthritis	179
	Hands: abnormal hands with skin changes	
	Case 100: Sclerodactyly/systemic sclerosis	181
	Hands: single swollen metacarpophalangeal joint	
	Case 101: Gout	182
	Hands: neurological signs in the hands	
	Case 102: Carpal tunnel syndrome	184
	Case 103: Wrist drop – radial nerve lesion	185
	Case 104: Ulnar nerve lesion	187
	Fundoscopy: diseased lens	
	Case 105: Cataracts	188
	Fundoscopy: diseased retina	
	Case 106: Diabetic retinopathy	190
	Case 107: Hypertensive retinopathy	194
	Case 108: Retinitis pigmentosa	195
	Case 109: CMV retinitis	197
	Fundoscopy: abnormal optic discs	
	Case 110: Optic atrophy	198
	Case 111: Papilloedema	200
	Case 112: Foster Kennedy syndrome	201
	Endocrinology	
	Case 113: Thyrotoxicosis	202
	Case 114: Hypothyroidism	205
	Case 115: Acromegaly	206
	Case 116: Weight gain and easy bruising –	208
	Cushingoid appearance	
	Case 117: Gynaecomastia	209
	Case 118: Pseudohypoparathyroidism – Albright's hereditary osteodystrophy	211
	Dermatology: chronic skin conditions	
	Case 119: Chronic plaque psoriasis	212
	Case 120: Atopic dermatitis or atopic eczema	216
	Dermatology: manifestations of systemic disease	
	Case 121: Pyoderma gangrenosum	218
	Case 122: Vasculitis (Henoch–Schönlein purpura)	221
	Case 123: Chronic venous insufficiency	223

Case 124: Cutaneous lupus erythematosus	226	
Case 125: Discoid lupus erythematosus	230	
Case 126: Dermatomyositis	231	
Case 127: Alopecia areata	233	
Case 128: Sarcoidosis	237	
Genetic disease		
Case 129: Tuberous sclerosis	239	
Case 130: Neurofibromatosis	241	
Dermatology spot diagnoses		
Case 131 & 132: Dermatology spot diagnoses	245	
Commonly encountered spot diagnoses		
Case 133: Ankylosing spondylitis	247	
Case 134: Marfan syndrome	249	
Case 135: Turner syndrome	252	
Symptoms as a presenting complaint		
Case 136: Tremor	254	
Case 137: Seizures	255	
<hr/>		
Chapter 6	History taking (station 2)	257
Cardiovascular		
Case 138: Chest pain	258	
Case 139: Irregular pulse	261	
Case 140: Palpitations	265	
Case 141: Ankle swelling	268	
Case 142: Raised lipids	271	
Case 143: Hypertension	273	
Respiratory		
Case 144: Breathlessness and wheeze – new diagnosis of asthma	277	
Case 145: Shortness of breath and wheeze – established diagnosis of asthma	280	
Case 146: Wheeze – established chronic obstructive pulmonary disease	282	
Case 147: Haemoptysis in the returning traveller	285	
Case 148: Persistent/change in cough – investigation of cancer	287	
Abdominal		
Case 149: Change in bowel habit – malignancy	290	
Case 150: Change in bowel habit – established inflammatory bowel disease	293	
Case 151: Difficulty in swallowing	295	
Case 152: Cirrhotic liver disease	297	
Case 153: Previous renal transplant	299	
Neurology		
Case 154: Headache	303	
Case 155: Visual disturbance	306	
Case 156: Tremor	308	
Case 157: Established multiple sclerosis	310	
Infectious disease		
Case 158: Fever in the returning traveller	313	
Rheumatology		
Case 159: Sore, stiff hands	315	
Case 160: Back pain	316	

Endocrinology		
Case 161: Established diabetes	318	
Case 162: Heat intolerance and weight loss	319	
Case 163: Diabetes insipidus	321	
Case 164: Weight gain	323	
<hr/>		
Chapter 7	Communication skills and ethical scenarios (station 4)	327
Consent and capacity		
Case 165: Informed consent for an invasive investigation or procedure – chest drain insertion	328	
Case 166: The patient refusing to consent	329	
Case 167: Consenting for a clinical trial	330	
Case 168: Assessing capacity	332	
Case 169: The patient who lacks capacity	333	
Breaking bad news and counseling patients		
Case 170: Breaking bad news to a relative	335	
Case 171: The decision to resuscitate	336	
Case 172: Withdrawing (life-dependent) care	337	
Case 173: Brainstem death testing	338	
Case 174: Organ donation and harvesting	340	
Case 175: Requesting a hospital postmortem	341	
Case 176: Driving with disease	342	
Case 177: Genetic counselling	345	
Case 178: Percutaneous endoscopic gastrostomy feeding	347	
Case 179: HIV testing – recent unprotected sex	348	
Case 180: HIV testing – needlestick injury	351	
When care goes wrong		
Case 181: Dealing with complaints – medical errors	353	
Dealing with colleagues		
Case 182: The trainee in difficulty	355	