



Phase 4 Medicine

Intended Learning Outcomes (ILOs)

This Phase 4 document outlines the listed ILOs for Medicine. This will be examined in the Year 4 and Year 5 summative written examinations. It is important that we impress upon you the limitation of any ILOs in their application to a vocational professional course such as medicine.

ILOs may be useful in providing a 'shopping list' of conditions that you will be expected to describe and anticipate. The depth and extent of your knowledge of each condition will be a joint function of the condition's frequency and its gravity. Please use the ILOs to make sure you are familiar with the common and important presentations and conditions. The list does not comprise of the entire coda for successful medical practice but will provide you with a solid platform from which to build upon. More detailed explanations and outlines will be available in the standard textbooks. Any elucidation or expansion can be obtained there. Even more important is the point that ILOs will point you in the correct direction to pass our written exam, but that this is only part of the story.

ILOs will point you in the correct direction to pass our written exam, but that this is only part of the story. Final exams function as 'objective proof' for the general public that you have enough knowledge to function as a doctor. As you will see during your time on the wards, however, being a doctor requires much more than knowledge; as well as being able to imitate and build on the activities you witness in your clinical placements, it is imperative that you acquire skills, behaviours, specific attitudes, and commitment to your patients' well being. These are well described in GMC documents such as Tomorrow's Doctors 3, and will be 'proved' not by exams, but by our monitoring and the feedback you receive, culminating in the portfolio signed off at the end of the Preparation for Practice module.

Good luck and work hard!

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INTENDED LEARNING OUTCOMES: LEVEL DESCRIPTOR

This document sets out the core knowledge expected at the completion of Phase 4. At the completion of Preparation for Practice you will also be expected to describe the steps required to provide immediate care for the conditions designated an asterisk (*) in the tables below. Below you will find descriptors for the level required for all of the common and/or important presentations in medicine. You will also find tables outlining the level required for the common and/or important conditions within a valid differential diagnosis. These have been graded level A, B or C to acknowledge the joint function of the conditions frequency and gravity. Your level should continue to improve with time in line with the principles of a spiral curriculum.

Level required for Common/Important presentations

All	<ul style="list-style-type: none"> • Interpret findings from history and examination to recognise the presentation/s • Demonstrate and apply knowledge of the presentation/s to support inclusion in a differential diagnosis • Formulate a plan of investigation
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Level required for Common/Important conditions

C	<ul style="list-style-type: none"> • Interpret findings from history and examination to recognise condition/s • Demonstrate and apply knowledge of the condition/s to support inclusion in a differential diagnosis
B	= C + <ul style="list-style-type: none"> • Formulate a plan of investigation
A	= B + <ul style="list-style-type: none"> • Synthesise a full assessment of the patient's problems • Define a likely final diagnosis • Formulate a plan for management • Recognise complications • Estimate prognosis and outline prevention (where relevant)

INTENDED LEARNING OUTCOMES: TOP 30 CORE PRESENTATIONS
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The core common and important presentations for Junior and Senior Medicine have been listed below. Please map your portfolio cases and cases of the week to the top presentations.

Year 3 Junior Medicine

Anaphylaxis **(Emergency)**
Breathlessness
Cardio-respiratory arrest **(Emergency)**
Chest pain
Fever
Gastro-intestinal bleeding
Polyuria/Polydipsia
Shocked patient **(Emergency)**
Unconscious patient **(Emergency)**
Weakness/Paralysis

Year 4 Senior Medicine

Abdominal Pain
Acute Back Pain
Acute Kidney Injury
Bruising/Spontaneous bleeding
Collapse/Blackout
Confusion/Delirium
Cough
Diarrhoea
Falls/Deterioration in mobility
Fits/Seizure
Headache
Jaundice
Joint Swelling
Limb Pain/Swelling
Nausea/Vomiting
Palpitations
Poisoning
Rash
Symptoms requiring palliative care/The dying patient
Weight loss

INTENDED LEARNING OUTCOMES: CORE HISTORY AND EXAMINATION

The core history and examinations for Medicine:

History: Full history relevant to presentation

Core examinations:

Cardiovascular

Respiratory

Gastro-intestinal

Neurological

Neck/Thyroid Examination

Cardiology

Common and/or Important Presentations

Cardio-respiratory Arrest, Shocked Patient, Breathlessness, Chest Pain, Palpitations, Collapse/Blackout, Falls, Acute Back Pain, Pre-syncope/Syncope, Lower Limb Swelling, Fatigue

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Coronary Artery disease	A	*
Myocardial Infarction	A	*
Hypertension	A	*
Tachyarrhythmia's (AF, SVT, VT, VF)	A	*
Brady arrhythmias (sinus, heart block)	A	*
Heart failure	A	*
Infective Endocarditis	A	
Postural Hypotension	B	
Dyslipidaemia	B	
Valvular Heart Disease (Aortic and Mitral)	B	
Cardiomyopathy	C	
Congenital Heart Disease	C	
Pericardial Disease	C	
Aortic Dissection	C	

Clinical Pharmacology

Common and/or Important Presentations

Poisoning, Drug side-effects, Drug allergy

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Adverse drug reactions	A	*
Practice safe and rational prescribing and medicines optimisation	A	*
Use local and national guidelines on appropriate and safe prescribing	A	*

ILOS: PRESENTATIONS/CONDITIONS/ISSUES BY SYSTEM/SPECIALTY

Dermatology

Common and/or Important Presentations

Shocked Patient, Fever, Rash, Limb Pain/Swelling, Skin Changes, Skin Blisters, Pigmentation, Purpura, Skin Ulcers, Hair loss

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Dermatological Emergencies (Toxic Epidermal Necrolysis Erythema Mutiforme, Acute Urticaria, Drug Reactions, Erythroderma/Skin Failure)	A	*
Cutaneous Infection/Soft Tissue infection	A	*
Eczema and Dermatitis	A	*
Leg Ulcers	A	*
Psoriasis	A	*
Acne Vulgaris	A	
Roscea	A	
Skin Blisters	A	
Urticaria	B	
Skin Cancer	B	
Alopecia Areata	B	
Cutaneous Manifestations of Systemic Disease	B	
Cutaneous Vasculitis	C	

Diabetes, Endocrinology & Clinical Biochemistry

Common and/or Important Presentations

Unconscious Patient, Shocked Patient, Blackout/Collapse, Confusion, Falls, Fits/Seizure, Headache, Nausea/Vomiting, Weakness/Paralysis, Appetite and Weight Changes, Disturbed Defecation, Sweating, Fatigue, Skin Changes, Pigmentation, Stature, Loss of Libido, Erectile Dysfunction, Galactorrhoea, Menstruation, Polyuria, Polydipsia, Thirst, Blurred Vision, Neck Lump

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Diabetic Emergencies (DKA, HHS, Hypoglycaemia)	A	*
Type 2 Diabetes	A	*
Type 1 Diabetes	A	*
Diabetes Complications	A	
Gestational Diabetes	B	
Secondary Diabetes	B	
Monogenic Diabetes	C	

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Hypothyroidism	A	*
Hyperthyroidism	A	*
Thyroid Goitre	B	
Thyroid Carcinoma	B	
Thyroid Eye Disease	C	

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Hyperparathyroidism	B	
Hypoparathyroidism	B	

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Adrenal Insufficiency	A	*
Hypopituitarism	A	
Cushing's Syndrome	B	
Acromegaly	B	
Hyperprolactinaemia	B	

Cushing's Disease/Syndrome	B	
Polycystic Ovary Syndrome	B	
Primary Gonadal Failure	B	
Klinefelter's Syndrome	C	
Phaeochromocytoma	C	
Primary Hyperaldosteronism	C	

Condition/Issue	ILO Level Phase 4 Medicine	ILO Level Preparation for Practice
Obesity	A	
Hypo or Hyperkalaemia	A	*
Hypo or Hypernatraemia	A	
Hypo or Hypercalcaemia	A	
Hypo or Hypermagnesaemia	B	
Acid-base Balance	B	

Gastroenterology

Common and/or Important Presentations

Abdominal Pain, Diarrhoea, Nausea/Vomiting, Gastrointestinal Bleeding, Jaundice, Appetite and/or Weight Change, Constipation, Faecal Incontinence, Heartburn/Water brash, Dysphagia, Abdominal Swelling/Bloating, Dark Urine, Pale Stools, Mouth Ulcers, Alcohol/Substance Dependence

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Gastro-oesophageal Reflux Disease and Hiatus Hernia	A	*
Upper Gastrointestinal Bleeding	A	*
Acute Liver Failure	A	*
Acute Alcohol Withdrawal	A	*
Inflammatory Bowel Disease including Ulcerative Colitis and Crohn's Disease	A	*
Gastritis/Duodenitis	A	*
Gastric/Duodenal Ulcer Disease	A	*
Oesophageal Varices	A	
Chronic Liver Disease and Cirrhosis	A	
Barret's Oesphagus	B	
Malabsorption including Coeliac Disease	B	
Irritable Bowel Syndrome	C	

ILOS: PRESENTATIONS/CONDITIONS/ISSUES BY SYSTEM/SPECIALTY
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Geriatric Medicine

Common and/or Important Presentations

Chronic pain, Delirium, Dementia, Deterioration in mobility, Falls, Fragility fractures, Frailty, Incontinence

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Deterioration in mobility	A	*
Falls	A	*
Continence – urinary / faecal	A	*
Delirium	A	*
Dementia	A	*
Malnutrition/sarcopenia	A	*
Depression	A	
Osteoporosis / fragility fractures	A	
Pressure ulcers	B	
Hearing and visual disorders	B	
Elder abuse	B	
Common conditions in older people (CVA/TIA, COPD, IHD, Heart failure, Hypertension, COPD, Pneumonia, UTI, Diabetes, Renal Failure)	See System/Sub-specialty	See System/Sub-specialty

Haematology

Common and/or Important Presentations

Breathlessness, Fever, Jaundice, Fatigue, Pre-syncope/Syncope, Easy Bruising and Spontaneous Bleeding, Purpura, Night Sweats, Recurrent Infections, Mouth Ulcers, Appetite and/or Weight Change, Lymph Gland Enlargement, Abdominal Swelling/Hepatosplenomegaly,

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Anaemia	A	*
Pancytopenia and Bone Marrow Failure	A	*
Bleeding Disorders (including Thrombocytopenia)	A	
Multiple Myeloma	A	
Thrombophilia	B	
Myeloid Diseases and Leukaemias	B	
Lymphoma	B	

Infectious Diseases

Common and/or Important Presentations

Shocked Patient, Breathlessness, Fever, Abdominal pain, Diarrhoea, Nausea/Vomiting, Jaundice, Headache, Confusion, Weakness/Paralysis, Rash, Limb Pain/Swelling, Neck Pain, Altered Cognition, Frequency, Urgency, Dysuria, Haematuria, Incontinence, Urinary Retention, Loin pain, Cough, Sputum, Haemoptysis, Genital Discharge and Ulceration, Hypothermia

Common and/or Important Conditions

Condition/Issue	ILO Level Phase 4 Medicine	ILO Level Preparation for Practice
Sepsis	A	*
Gastroenteritis	A	*
Respiratory Infections (including Viral)	A	*
Cellulitis (including indications for surgical intervention)	A	*
MRSA Infection	A	*
Clostridium Infection	A	*
Meningitis	A	*
Herpes Virus Infections	A	
Tuberculosis	A	
HIV/AIDS	A	
Staphylococcus Aureus Bacteraemia	B	
Sexually Transmitted Infection	B	
Malaria	B	
Infections in the Immunocompromised Host	B	
Fever in the Returning Traveller	B	
Infectious Mononucleosis	B	
Pyrexia of Unknown Origin	B	
Less Common Infections (Spirochaetal infection including syphilis, Tetanus, Dysentery, Cholera, Leprosy, Viral haemorrhagic fevers, Enteric fever, Rabies, Roundworm and tapeworm infestation, Toxoplasmosis, Lyme disease, Measles, Mumps)	C	

Nephrology

Common and/or Important Presentations

Fever, Abdominal pain, Nausea/Vomiting, Confusion, Frequency, Urgency, Dysuria, Haematuria, Incontinence, Nocturia, Anuria, Urinary Retention, Oliguria, Polyuria, Anorexia, Fatigue, Vomiting, Pruritus, Oedema

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Urinary Tract Infection/Pyelonephritis	A	*
Acute Kidney Injury	A	*
Chronic Kidney Disease (including principles/consequences of renal replacement therapy including transplantation)	A	
Glomerulonephritis	B	
Congenital Disease of the Kidney	B	
Systemic Disease of the Kidney	B	

Neurology

Common and/or Important Presentations

Unconscious Patient, Headache, Blackout/Collapse, Fits/Seizure, Confusion (including Acute/Delirium), Weakness/Paralysis, Acute Back Pain, Falls, Neck Pain, Vertigo, Disturbances of Vision, Hearing or Smell, Disturbances of Gait, Disturbance of Sphincter Control, Loss or Disturbed Sensation, Involuntary Movements, Tremor, Speech or Swallowing Disturbance, Altered Cognition/Disturbed Behaviour, Head Injury, Memory Loss, Immobility

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Seizures and Epilepsy	A	*
Stroke/TIA	A	*
Headache	A	*
Subarachnoid Haemorrhage	A	
Multiple Sclerosis	A	
Parkinson's Disease	A	
Cervical Spondylosis	A	
Myasthenia Gravis	B	
Motor Neurone Disease	B	
Acute Confusional State/Delirium	B	
Peripheral Neuropathy	B	

Palliative Medicine

Common and/or Important Presentations

Symptoms requiring palliative care (pain and physical symptoms other than pain), The dying patient, Psychosocial concerns including spiritual care and care of family

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Advanced malignancy	A	*
End stage organ failure	A	*
Multiple co-morbidity	A	*

Respiratory Medicine

Common and/or Important Presentations

Cardio-respiratory Arrest, Anaphylaxis, Breathlessness, Chest Pain, Fever, Limb Pain/Swelling, Cough, Sputum, Haemoptysis, Wheeze, Hoarseness/Stridor, Night Sweats, Weight Loss, Lymph Gland Enlargement

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Respiratory failure (including arterial blood gas analysis)	A	*
Chronic Obstructive Airways Disease	A	*
Asthma	A	*
Pneumonia	A	*
DVT/Pulmonary embolism (including Prevention and Anticoagulation)	A	*
Pneumothorax (and tension pneumothorax)	A	
Lung Cancer	A	
Pleural effusion	A	
Obstructive sleep apnoea syndrome	A	
Interstitial and fibrotic lung disease	B	
Bronchiectasis	B	
Pulmonary hypertension and Cor Pulmonale	C	
Granulomatous Lung Disease	C	

Rheumatology

Common and/or Important Presentations

Joint Pain, Joint Swelling, Acute Hot Joint, Morning Stiffness, Loss of Motion/Loss of Function, Joint Deformity, Joint Instability, Acute Back Pain, Muscle Pain, Dry Eyes/Mouth, Raynaud's Phenomenon, Mouth Ulcers, Rash, Fever, Photosensitivity, Diarrhoea

Common and/or Important Conditions

Condition/Issue	Phase 4 Medicine	Preparation for Practice
Rheumatoid Arthritis	A	*
Osteoarthritis	A	*
Psoriatic Arthritis	A	*
Septic Arthritis	A	*
Crystal Arthropathies (Gout and Pseudogout)	A	*
Temporal Arteritis	A	*
Polymyalgia Rheumatica	A	
Osteoporosis	A	
Ankylosing Spondylitis	A	
Autoimmune Connective Tissue Disease (SLE, Sjogren's Syndrome, Polymyositis and Dermatomyositis)	B	
Vasculitis	B	
Reactive Arthritis	B	
Paget's Disease of the Bone	B	
Bone Tumours and Metastases	B	