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List of Abbreviations

AA	Amino acid	ARB	Angiotensin receptor blocker
Ab	Antibody	ARC	AIDS related complex
ABC	ATP-binding cassette (transporter)	ARS	Anti rabies serum
ABLCL	Amphotericin B lipid complex	ART	Antiretrovirus therapy
AC	Adenylyl cyclase	ARV	Antiretrovirus (drug)
ACE	Angiotensin II converting enzyme	AS	Artesunate
ACh	Acetylcholine	5-ASA	5-Amino salicylic acid
AChE	Acetylcholinesterase	ASCVD	Atherosclerotic cardiovascular disease
ACS	Acute coronary syndromes	AT-III	Antithrombin III
ACT	Artemisinin-based combination therapy	ATG	Antithymocyte globulin
ACTH	Adrenocorticotrophic hormone	ATP	Adenosine triphosphate
AD	Alzheimer's disease	ATPase	Adenosine triphosphatase
ADCC	Antibody-dependent cellular cytotoxicity	ATPIII	Adult treatment panel III
ADE	Adverse drug event	ATS	Antitetanic serum
ADH	Antidiuretic hormone	AUC	Area under the plasma concentration-time curve
ADHD	Attention deficit hyperactivity disorder	A-V	Atrioventricular
ADP	Adenosine diphosphate	AVP	Arginine vasopressin
Adr	Adrenaline	AZT	Zidovudine
ADR	Adverse drug reaction		
ADS	Anti diphtheritic serum		
AES	Atrial extrasystole	BAL	British anti lewisite
AF	Atrial fibrillation	BAN	British approved name
AFI	Atrial flutter	BB	Borderline leprosy
AG	Antigen	BBB	Blood-brain barrier
AGS	Antigangrene serum	BCG	Bacillus Calmette Guérin
AHG	Antihemophilic globulin	BCNU	Bischloroethyl nitrosourea (Carmustine)
AI	Aromatase inhibitor	BCRP	Breast cancer resistance protein
AIDS	Acquired immunodeficiency syndrome	BD	Twice daily
AIP	Aldosterone induced protein	β -ARK	β adrenergic receptor kinase
ALA	Alanine	BHC	Benzene hexachloride
ALS	Amyotrophic lateral sclerosis	BHP	Benign hypertrophy of prostate
Am	Amikacin	BI	Bacillary index
AMA	Antimicrobial agent	BL	Borderline lepromatous leprosy
AMB	Amphotericin B	BMD	Bone mineral density
amp	Ampoule	BMR	Basal metabolic rate
AMP	Adenosine mono phosphate	BNP	Brain natriuretic peptide
AMPA	α -Aminohydroxy methylisoxazole propionic acid	BOL	2-Bromolysergic acid diethylamide
ANC	Acid neutralizing capacity	BP	Blood pressure
Ang-I/II/III	Angiotensin I/II/III	BPN	Bisphosphonate
ANP	Atrial natriuretic peptide	BSA	Body surface area
ANS	Autonomic nervous system	BT	Borderline tuberculoid leprosy
ANUG	Acute necrotizing ulcerative gingivitis	BuChE	Butyryl cholinesterase
AP	Action potential	BW	Body weight
AP-1	Activator protein-1	BZD	Benzodiazepine
APC	Antigen presenting cell		
APD	Action potential duration	C-10	Decamethonium
aPTT	Activated partial thromboplastin time	CA	Catecholamine
AQ	Amodiaquine	CAB	Combined androgen blockade
AR	Androgen receptor	CaBP	Calcium binding protein
		CAD	Coronary artery disease

CAM	Calmodulin	DA	Dopamine
cAMP	3', 5' Cyclic adenosine monophosphate	DA-B ₁₂	Deoxyadenosyl cobalamin
CAP	Community acquired pneumonia	DAD	Delayed after-depolarization
cap	Capsule	DAG	Diacyl glycerol
CAse	Carbonic anhydrase	DAM	Diacetyl monoxide
CAT	Computerized axial tomography	DAMP	Diphenyl acetoxyl-N-methyl piperidine methiodide
CBF	Cerebral blood flow	DAT	Dopamine transporter
CBG	Cortisol binding globulin	dDAVP	Desmopressin
CBS	Colloidal bismuth subcitrate	DDS	Diamino diphenyl sulfone (Dapsone)
CCB	Calcium channel blocker	DDT	Dichloro diphenyl trichloroethane
CCNU	Chloroethyl cyclohexyl nitrosourea (lomustine)	DEC	Diethyl carbamazine citrate
CCR5	Chemokine coreceptor 5	DHA	Dihydroartemisinin
CD	Collecting duct/Cluster of differentiation	DHE	Dihydroergotamine
CDC	Complement dependent cytotoxicity	DHFA	Dihydro folic acid
CFTR	Cystic fibrosis transport regulator	DHFRase	Dihydrofolate reductase
cGMP	3', 5' Cyclic guanosine monophosphate	DHP	Dihydropyridine
CGRP	Calcitonin gene related peptide	DHT	Dihydrotestosterone
CH	Cholesterol	DI	Diabetes insipidus
ChE	Cholinesterase	DIT	Diiodotyrosine
CHE	Cholesterol ester	dl	Decilitre
CHF	Congestive heart failure	DLE	Disseminated lupus erythematosus
Chy	Chylomicron	DMA	Dimethoxy amphetamine
Chy. rem.	Chylomicron remnants	DMARD	Disease modifying antirheumatic drug
CI	Cardiac index	DMCM	Dimethoxyethyl-carbomethoxy-β-carboline
CINV	Chemotherapy induced nausea and vomiting	DMPA	Depot medroxyprogesterone acetate
CKD	Chronic kidney disease	DMPP	Dimethyl phenyl piperazinium
CL	Clearance	DMT	Dimethyl tryptamine/Divalent metal transporter
CLcr	Creatinine clearance	DNA	Deoxyribose nucleic acid
Cm	Capreomycin	DOC	Deoxycholate
CMI	Cell mediated immunity	DOCA	Desoxy corticosterone acetate
CMV	Cytomegalovirus	DOM	Dimethoxymethyl amphetamine
CNS	Central nervous system	dopa	Dihydroxyphenyl alanine
c.o.	Cardiac output	DOPAC	3, 4, Dihydroxyphenyl acetic acid
CoEn-A	Coenzyme-A	DOSS	Diocetyl sulfosuccinate
COMT	Catechol-O-methyl transferase	DOTS	Directly observed treatment short course
COX	Cyclooxygenase	DPD	Dihydropyrimidine dehydrogenase
c.p.s.	Cycles per second	DPP-4	Dipeptidyl peptidase-4
CPS	Complex partial seizures	DPT	Diphtheria-pertussis-tetanus triple antigen
CPZ	Chlorpromazine	DRC	Dose-response curve
CQ	Chloroquine	DRI	Direct renin inhibitor
CRABP	Cellular retinoic acid binding protein	DST	Drug sensitivity testing (for TB)
CRBP	Cellular retinol binding protein	DT	Distal tubule
CrD	Crohn's disease	DT-DA	Diphtheria-tetanus double antigen
CREB	Cyclic AMP response element binding protein	d-TC	d-Tubocurarine
CRF	Corticotropin releasing factor	DTIC	Dacarbazine
CS	Cycloserine	DTPA	Diethylene triamine pentaacetic acid
CSF	Cerebrospinal fluid	DVT	Deep vein thrombosis
CTL	Cytotoxic T-lymphocytes	DYN	Dynorphin
CTZ	Chemoreceptor trigger zone	E	Ethambutol
CV	Cardiovascular	EACA	Epsilon amino caproic acid
CVP	Central venous pressure	EAD	Early after-depolarization
CVS	Cardiovascular system	ECE	Endothelin converting enzyme
CWD	Cell wall deficient	e.c.f.	Extracellular fluid
CYP450	Cytochrome P450	ECG	Electrocardiogram
		ECT	Electroconvulsive therapy
		ED	Erectile dysfunction

EDRF	Endothelium dependent relaxing factor	GLP	Glucagon-like peptide
EDTA	Ethylene diamine tetraacetic acid	GLUT	Glucose transporter
EEG	Electroencephalogram	GM-CSF	Granulocyte macrophage colony stimulating factor
EF	Ejection fraction	GnRH	Gonadotropin releasing hormone
EGF	Epidermal growth factor	GPCR	G-protein coupled receptor
ELAM-1	Endothelial leukocyte adhesion molecule-1	G-6-PD	Glucose-6-phosphate dehydrogenase
β -END	β -Endorphin	GPI	Globus pallidus interna
eNOS	Endothelial nitric oxide synthase	GST	Glutathione-S-transferase
ENS	Enteric nervous system	GTCS	Generalised tonic-clonic seizures
ENT	Extraneuronal amine transporter	GTN	Glyceryl trinitrate
EPAC	cAMP regulated guanine nucleotide exchange factors	GTP	Guanosine triphosphate
EPEC	Enteropathogenic <i>E. coli</i>	H	Isoniazid (Isonicotinic acid hydrazide)
EPO	Erythropoietin	HAP	Hospital acquired pneumonia
EPP	End plate potential	Hb	Haemoglobin
EPSP	Excitatory postsynaptic potential	HBV	Hepatitis B virus
ER	Estrogen receptor	HCG	Human chorionic gonadotropin
ERA	Endothelin receptor antagonist	HCV	Hepatitis C virus
ERP	Effective refractory period	HDCV	Human diploid cell vaccine
ES	Extrasystole	HDL	High density lipoprotein
ESR	Erythrocyte sedimentation rate	HETE	Hydroxyeicosa tetraenoic acid
ET	Endothelin	5-HIAA	5-Hydroxyindole acetic acid
ETEC	Enterotoxigenic <i>E. coli</i>	HIV	Human immunodeficiency virus
Eto	Ethionamide	HLA	Human leucocyte antigen
FA	Folic acid	HMG-CoA	Hydroxymethyl glutaryl coenzyme A
FAD	Flavin adenine dinucleotide	HMW	High molecular weight
5-FC	5-Flucytosine	HPA axis	Hypothalamo-pituitary-adrenal axis
FDC	Fixed dose combination	HPETE	Hydroperoxy eicosatetraenoic acid
FDT	Fixed duration therapy (of leprosy)	hr	Hour
FEV ₁	Forced expiratory volume in 1 second	HR	Heart rate
FFA	Free fatty acid	HRIG	Human rabies immunoglobulin
FKBP	FK 506 (tacrolimus) binding protein	HRT	Hormone replacement therapy
FLAP	Five-lipoxygenase activating protein	5-HT	5-Hydroxytryptamine
FMN	Favin mononucleotide	5-HTP	5-Hydroxytryptophan
FP	Ferroportin	HVA	Homovanillic acid
FQ	Fluoroquinolone	I	Indeterminate leprosy
FRase	Folate reductase	IAP	Islet amyloid polypeptide
FSH	Follicle stimulating hormone	IBD	Inflammatory bowel disease
5-FU	5-Fluorouracil	IBS	Irritable bowel syndrome
G	Genetic	ICAM-1	Intracellular adhesion molecule-1
GABA	Gamma amino butyric acid	ICSH	Interstitial cell stimulating hormone
GAT	GABA-transporter	i.d.	Intradermal (injection)
GC	Guanylyl cyclase	IDL	Intermediate density lipoprotein
GCP	Good clinical practice	IFN	Interferon
G-CSF	Granulocyte colony stimulating factor	IG	Immunoglobulin
GDP	Guanosine diphosphate	IGF	Insulin-like growth factor
GERD	Gastroesophageal reflux disease	IL	Interleukin
g.f.	Glomerular filtration	ILEU	Isoleucine
g.f.r.	Glomerular filtration rate	i.m.	Intramuscular
GH	Growth hormone	INH	Isonicotinic acid hydrazide
GHRH	Growth hormone releasing hormone	INR	International normalized ratio
GHRHl	Growth hormone release inhibitory hormone	i.o.t.	Intraocular tension
GIP	Gastric inhibitory peptide/Glucose-dependent insulinotropic polypeptide	IP ₃	Inositol trisphosphate
g.i.t.	Gastrointestinal tract	IP ₄	Inositol tetrakisphosphate
GITS	Gastrointestinal therapeutic system	IPSP	Inhibitory postsynaptic potential

IPV	Inactivated poliomyelitis vaccine	MRP2	Multidrug resistance associated protein-2
IRS	Insulin response substrate	MRSA	Methicillin resistant <i>Staphylococcus aureus</i>
ISA	Intrinsic sympathomimetic activity	MSH	Melanocyte stimulating hormone
ISH	Isolated systolic hypertension	mTOR	Mammalian target of rapamycin
IU	International unit	Mtx	Methotrexate
IUCD	Intrauterine contraceptive device	mV	millivolt
i.v.	Intravenous	MW	Molecular weight
JAK	Janus-kinase	NA	Noradrenaline
Km	Kanamycin	NABQI	N-acetyl-p-benzoquinoneimine
KTZ	Ketoconazole	NADP	Nicotinamide adenine dinucleotide phosphate
LA	Local anaesthetic	NADPH	Reduced nicotinamide adenine dinucleotide phosphate
LCAT	Lecithin cholesterol acyl transferase	NAG	N-acetyl glucosamine
LC3-KAT	Long chain 3-ketoacyl-CoA-thiolase	NAM	N-acetyl muramic acid
LDL	Low density lipoprotein	NANC	Nonadrenergic noncholinergic
LES	Lower esophageal sphincter	NAPA	N-acetyl procainamide
leu-ENK	Leucine enkephalin	NaSSA	Noradrenergic and specific serotonergic antidepressant
LH	Luteinizing hormone	NAT	N-acetyl transferase
liq	Liquid	NCEP	National cholesterol education programme
LL	Lepromatous leprosy	NEE	Norethindrone enanthate
LMW	Low molecular weight	NEP	Neutral endopeptidase (Neproslysin)
LOX	Lipoxygenase	NET	Norepinephrine transporter
LSD	Lysergic acid diethylamide	NFAT	Nuclear factor of activated T-cell
LT	Leukotriene	NFκB	Nuclear factor κB
LVF	Left ventricular failure	NICE	National Institute for Health and Care Excellence (UK)
MAbs	Monoclonal antibodies	NIS	Na ⁺ (sodium)-iodide symporter
MAC	Minimal alveolar concentration	NLEP	National leprosy eradication programme
MAC	<i>Mycobacterium avium</i> complex	NMDA	N-methyl-D-aspartate
MAO	Monoamine oxidase	nNOS	Neural nitric oxide synthase
MAP	Muscle action potential	NNRTI	Nonnucleoside reverse transcriptase inhibitor
MAPKinase	Mitogen activated protein kinase	NPY	Neuropeptide-Y
max	Maximum	NR	Nicotinic receptor
MBC	Minimum bactericidal concentration	N-REM	Non rapid eye movement (sleep)
MBL	Multibacillary leprosy	NRTI	Nucleoside reverse transcriptase inhibitor
MCI	Mild cognitive impairment	NSAID	Nonsteroidal antiinflammatory drug
MDI	Manic depressive illness	NSTEMI	Non ST-segment elevation myocardial infarction
MDMA	Methylene dioxy methamphetamine	NTS	Nucleus tractus solitarius
MDR	Multidrug resistant	NVBDCP	National vector borne diseases control programme
MDT	Multidrug therapy (of leprosy)	NYHA	New York Heart Association
met-ENK	Methionine enkephalin	OAT	Organic anion transporter
mEq	milliequivalent	OATP	Organic anion transporting polypeptide
methyl B ₁₂	Methyl cobalamin	OC	Oral contraceptive
Mf	Microfilariae	OCD	Obsessive-compulsive disorder
MF	Multifactorial	OCT	Organic cation transporter
MHC	Major histocompatibility complex	OD	Once daily
MHT	Menopausal hormone therapy	OPG	Osteoprotegerin
MI	Myocardial infarction	OPV	Oral poliomyelitis vaccine
MIC	Minimal inhibitory concentration	ORS	Oral rehydration salt (solution)
MIF	Migration inhibitory factor	ORT	Oral rehydration therapy
min	Minimum	PABA	Paraamino benzoic acid
MIT	Monoiodo tyrosine	PAE	Post antibiotic effect
MLCK	Myosin light chain kinase	PAF	Platelet activating factor
MMF	Mycophenolate mofetil		
6-MP	6-Mercaptopurine		
MPPT	Methylprednisolone pulse therapy		
MPTP	4-methyl-4-phenyltetrahydro pyridine		
MQ	Mefloquine		

PAH	Pulmonary arterial hypertension	QID	Four times a day
PAI-1	Plasminogen activator inhibitor-1	R	Rifampin (Rifampicin)
2-PAM	Pralidoxime	RANK	Receptor for activation of nuclear factor κ B
PAN	Primary afferent neurone	RANKL	RANK ligand
PAS	Paraamino salicylic acid	RAS	Renin-angiotensin system
PBI	Protein bound iodine	RBC	Red blood cells
PBL	Paucibacillary leprosy	RBP	Retinol binding protein
PBPs	Penicillin binding proteins	RC	Respiratory centre
PCA	Patient controlled anaesthesia	RCT	Randomized clinical trial
PCEV	Purified chick embryo cell vaccine (rabies)	RE	Reticuloendothelial
PCI	Percutaneous coronary intervention	REM	Rapid eye movement (sleep)
PCPA	Parachloro phenylalanine	RGS	Regulator of G-protein synthesis
PD	Parkinson's disease	RIG	Rabies immunoglobulin
PDE	Phosphodiesterase	RIMA	Reversible inhibitor of MAO-A
PE	Pulmonary embolism	rINN	Recommended international nonproprietary name
PEMA	Phenylethyl malonamide	RMP	Resting membrane potential
PEP	Postexposure prophylaxis	RNA	Ribonucleic acid
PF	Purkinje fibre	RNTCP	Revised National Tuberculosis Control Programme
PFOR	Pyruvate: ferredoxin oxidoreductase	RP	Refractory period
PG	Prostaglandin	RTF	Resistance transfer factor
PGI ₂	Prostacyclin	RTKs	Receptor tyrosine kinases
Pgp	P-glycoprotein	RXR	Retinoid X receptor
PI	Protease inhibitor	RyR	Ryanodine receptor
PIG	Phosphatidyl inositol glycan	S	Streptomycin
PIP ₂	Phosphatidyl inositol-4,5-bisphosphate	SA	Sinoauricular (node)
PKA	Protein kinase: cAMP dependent	SABE	Subacute bacterial endocarditis
PKC	Protein kinase C	s.c.	Subcutaneous
PL _A	Phospholipase A	SCC	Short course chemotherapy (of tuberculosis)
PL _C	Phospholipase C	SCh	Succinylcholine
Pl. ph.	Platelet phospholipid	SCID	Severe combined immunodeficiency disease
pMDI	pressurized multidose inhaler	SERCA	Sarcoplasmic-endoplasmic reticular calcium ATPase
PnG	Penicillin G	SERDs	Selective estrogen receptor down regulators
POMC	Pro-opio melanocortin	SERM	Selective estrogen receptor modulator
PONV	Postoperative nausea and vomiting	SERT	Serotonin transporter
PP	Partial pressure	SGA	Second generation antihistaminic
PPAR γ	Paroxysome proliferator-activated receptor γ	SGLT	Sodium-glucose transporter
PPH	Post partum haemorrhage	SHBG	Sex hormone binding globulin
PPI	Proton pump inhibitor	SIADH	Syndrome of inappropriate ADH secretion
ppm	Part per million	s.l.	Sublingual
PPNG	Penicillinase producing <i>N. gonorrhoeae</i>	SLC	Solute carrier
PRA	Plasma renin activity	SLE	Systemic lupus erythematosus
PrEP	Pre-exposure prophylaxis (of HIV)	SMON	Subacute myelo-optic neuropathy
PRF	Prolactin releasing factor	SNP	Single nucleotide polymorphism
PRIH	Prolactin release inhibitory hormone	SN-PC	Substantia nigra-pars compacta
PSVT	Paroxysmal supra-ventricular tachycardia	SN-PR	Substantia nigra-pars reticularis
PT	Proximal tubule	SNRI	Serotonin and noradrenaline reuptake inhibitor
PTCA	Percutaneous transluminal coronary angioplasty	s.o.s.	as required
PTH	Parathyroid hormone	S/P	Sulfonamide + pyrimethamine
PTMA	Phenyl trimethyl ammonium	SP	Substance P
PTP	Post-tetanic potentiation	SPF	Sun protection factor
PTSD	Post-traumatic stress disorder	SPRM	Selective progesterone receptor modulator
PTZ	Pentylentetrazol	SPS	Simple partial seizures
PUV A	Psoralen-Ultraviolet A		
PVRV	Purified verocell rabies vaccine		

SR	Sustained release	TRE	Thyroid hormone response element
SRS-A	Slow reacting substance of anaphylaxis	TRH	Thyrotropin releasing hormone
SSG	Sodium stibogluconate	TSH	Thyroid stimulating hormone
SSI	Surgical site infection	TT	Tuberculoid leprosy
SSRIs	Selective serotonin reuptake inhibitors	TTS	Transdermal therapeutic system
STAT	Signal transducer and activator of transcription	TX	Thromboxane
STEMI	ST-segment elevation myocardial infarction	U	Unit
StK	Streptokinase	UA	Unstable angina
SU	Sulfonylurea	UDP	Uridine diphosphate
SULT	Sulfotransferase	UFH	Unfractionated heparin
SUR	Sulfonyl urea receptor	UGDP	University group diabetic programme
susp	Suspension	UGT	UDP-glucuronosyl transferase
SVR	Sustained viral response	USAN	United States adopted name
SWD	Shift work disorder	UT	Urea transporter
SWS	Slow wave sleep	UTI	Urinary tract infection
syr	Syrup	v	Volt
t _{1/2}	Half life	V	Volume of distribution
T ₃	Triiodothyronine	VAL	Valine
T ₄	Thyroxine	VAP	Ventilator associated pneumonia
tab	Tablet	VDR	Vit D receptor
TAB	Typhoid, paratyphoid A and B vaccine	VES	Ventricular extrasystole
TAL	Thick ascending limb (loop of Henle)	VF	Ventricular fibrillation
TB	Tubercle bacilli	VIP	Vasoactive intestinal peptide
TBG	Thyroxine binding globulin	Vit	Vitamin
TCH	Transcobalamin II	VKOR	Vitamin K epoxide reductase
TCA	Tricyclic antidepressants	VL	Visceral leishmaniasis
TCID ₅₀	Tissue culture infectious dose 50%	VLDL	Very low density lipoprotein
TDM	Therapeutic drug monitoring	VMA	Vanillyl mandelic acid
TDS	Three times a day	VMAT	Vesicular monoamine transporter
Tf	Transferrin	VRE	Vancomycin resistant enterococci
TG	Triglyceride	VRSA	Vancomycin resistant <i>Staphylococcus aureus</i>
6-TG	6-Thioguanine	VRUT	Vasopressin regulated urea transporter
TGF-β	Transforming growth factor β	VT	Ventricular tachycardia
THC	Tetrahydrocannabinol	VTE	Venous thromboembolism
THFA	Tetrahydro folic acid	vWF	von Willebrand factor
Thio TEPA	Triethylene thiophosphoramidate	WBC	White blood cells
THR	Threonine	WCVs	Water channel containing vesicles
TIA	Transient ischaemic attacks	WHO	World Health Organization
TNF-α	Tumour necrosis factor α	WPW	Wolff-Parkinson-White syndrome
TOD	Target organ damage	XDR-TB	Extensively drug resistant-TB
TOF	Train-of-four	Z	Pyrazinamide
t-PA	Tissue plasminogen activator	ZE (syndrome)	Zollinger-Ellison (syndrome)
TPMT	Thiopurine methyl transferase		
t.p.r.	Total peripheral resistance		
TR	Thyroid hormone receptor		

Competency Table

Number	Competency	Chapter No./ Page No.
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PH1.2	Describe the <i>basis of evidence-based medicine</i> and <i>therapeutic drug monitoring</i>	p. 83–87, p. 42
PH1.3	Enumerate and <i>identify drug formulations</i> and <i>drug delivery systems</i>	p. 7–9
PH1.4	Describe absorption, distribution, metabolism and excretion of drugs	Ch. 2 and 3
PH1.5	Describe general principles of mechanism of drug action	Ch. 4
PH1.6	Describe principles of <i>pharmacovigilance</i> and <i>adverse drug reactions reporting systems</i>	p. 93
PH1.7	Define, identify and describe the <i>management of adverse drug reactions (ADR)</i>	Ch. 6
PH1.8	Identify and describe the <i>management of drug interactions</i>	Ch. 71
PH1.9	Describe nomenclature of drugs, i.e., generic, branded drugs	p. 4–5
PH1.10	Describe parts of a correct, complete and legible <i>generic prescription</i> . Identify <i>errors in prescription</i> and correct appropriately	p. 1067–69
PH1.11	Describe various <i>routes of drug administration</i> , e.g., oral, SC, IV, IM, SL	p. 9–14
PH1.12	<i>Calculate the dosage of drugs using appropriate formulae for an individual patient</i> , including <i>children, elderly</i> and patient with <i>renal dysfunction</i>	p. 73–74, 78
PH1.13	Describe mechanism of action, types, doses, side effects, indications and contraindications of <i>adrenergic and antiadrenergic drugs</i>	Ch. 9 and 10
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PH1.16	Describe mechanism/s of action, types, doses, side effects, indications and contraindications of the <i>drugs which act by modulating autacoids</i> , including: <i>antihistaminics, 5-HT modulating drugs, NSAIDs, drugs for gout, anti-rheumatic drugs, drugs for migraine</i>	Ch. 11, 12, 13, 14, 15
PH1.17	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of <i>local anesthetics</i>	Ch. 26
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PH1.19	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs which <i>act on CNS</i> , (including <i>anxiolytics, sedatives and hypnotics, antipsychotic, antidepressant drugs, antimaniacs, opioid agonists and antagonists, drugs used for neurodegenerative disorders, antiepileptic drugs</i>)	Ch. 29, 30, 31, 32, 33, 34
PH1.20	Describe the effects of <i>acute and chronic ethanol intake</i>	Ch. 28
PH1.21	Describe the <i>symptoms and management of methanol and ethanol poisonings</i>	Ch. 28 (p. 420, 422–23)
PH1.22	Describe <i>drugs of abuse (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal offences)</i>	p. 88–89, 148, 391–92, 411, 420–22, 432, 478–80, 501–12, 1072–73
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PH1.28	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in <i>ischemic heart disease (stable, unstable angina and myocardial infarction), peripheral vascular disease</i>	Ch. 40
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PH1.34	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs used as below: 1. <i>Acid-peptic disease and GERD</i> 2. <i>Antiemetics and prokinetics</i> 3. <i>Antidiarrhoeals</i> 4. <i>Laxatives</i> 5. <i>Inflammatory bowel disease</i> 6. <i>Irritable bowel disorders, biliary and pancreatic diseases</i>	Ch. 47 Ch. 48 p. 727–37 p. 721–27 p. 734–37 p. 128, 131, 722, 724, 719–20
PH1.35	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of drugs used in <i>hematological disorders</i> like: 1. <i>Drugs used in anemias</i> 2. <i>Colony stimulating factors</i>	Ch. 44 1076–77
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PH1.39	Describe mechanism of action, types, doses, side effects, indications and contraindications of the <i>drugs used for contraception</i>	p. 346–53
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PH1.41	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of <i>uterine relaxants and stimulants</i>	Ch. 23
PH1.42	Describe <i>general principles of chemotherapy</i>	Ch. 50
PH1.43	Describe and discuss the <i>rational use of antimicrobials</i> including <i>antibiotic stewardship program</i>	p. 745–50, 1077–80
PH1.44	Describe the <i>first line antitubercular drugs, their mechanisms of action, side effects and doses.</i>	Ch. 56
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PH1.55	Describe and discuss the following <i>National Health Programmes</i> including <i>Immunisation, Tuberculosis, Leprosy, Malaria, HIV, Filaria, Kala-Azar, Diarrhoeal Diseases, Anaemia and Nutritional Disorders, Blindness, Non-communicable Diseases, Cancer</i> and <i>Iodine Deficiency</i>	p. 1097–1110
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PH1.60	Describe and discuss <i>pharmacogenomics</i> and <i>pharmacoeconomics</i>	p. 75–77, 1113–15
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