MEDICINE

ESSENTIALS FOR PRACTITIONERS AND STUDENTS

 $\mathbf{B}\mathbf{y}$

G. E. BEAUMONT

M.A., D.M.(Oxon.), F.R.C.P., D.P.H.(Lond.)

Hon. Consultant Physician to the Middlesex
Hospital, London; Hon. Consultant Physician to
the Hospital for Consumption and Diseases of the
Chest, Brompton, London; Formerly Lecturer
in Medicine, Middlesex Hospital, Medical School;
Censor, Royal College of Physicians, London;
Examiner in Medicine, University of Oxford.

SEVENTH EDITION

WITH 70 ILLUSTRATIONS



LONDON
J. & A. CHURCHILL
104 GLOUCESTER PLACE, W.1
1958

PREFACE TO THE SEVENTH EDITION

In preparing this, the seventh, edition I have subjected the book to a thorough revision in order to include the many advances made in medicine

during the past four years.

New articles have been written on the following subjects: Behçet's syndrome, gastric diverticula, the dumping syndrome, carcinoid tumours of the intestine, steatorrhœa, proctalgia fugax, thrombosis of the hepatic veins, post-necrotic hepatic cirrhosis, constitutional hyperbilirubinæmia, hepatic coma, the post-cholecystectomy syndrome, sequestration of a lung, North American blastomycosis, the Wolff-Parkinson-White syndrome, ischæmic heart disease, dissecting aneurysm, tuberous sclerosis, cervical spondylosis, Christmas disease, agammaglobulinæmia, sarcoidosis, histoplasmosis, osteoporosis, Kwashiokor, primary amyloidosis, the Fanconi syndrome, idiopathic hypoparathyroidism and pseudo-hypoparathyroidism. Chapter VI, on Water and Electrolytic Balance, is new, and has been kindly written for me by Dr. P. H. Friedlander.

The following sections have been largely or entirely rewritten: Fibrocystic disease of the pancreas, suppurative bronchitis, the etiology of carcinoma of the lung, the pneumonias, the types of pulmonary tuberculosis, the etiology of emphysema, collapse of the lung, anticoagulants, abscess of the lung, cor pulmonale, the signs of mitral stenosis, arteriosclerosis, high blood pressure, Raynaud's disease, tuberculous meningitis, epilepsy, nephritis, nephrosis,

uræmia, and the etiology of pernicious anæmia.

The treatment of the following subjects has been recast: Gastric ulcer, cœliac disease, acute pancreatitis, ascites, ruptured œsophageal veins, pulmonary tuberculosis, emphysema, meningococcal meningitis, neuro-syphilis, the prophylaxis of measles and whooping-cough, the treatment of scarlet fever, typhoid fever, syphilis, tetanus, gout, malaria, chronic leukæmia and

rheumatoid arthritis.

Notes have been added on the following subjects: Calcification of the liver, "liver palms," "vascular spiders," "silver stools," cough syncope, pre-menstrual asthma, printers' asthma, the rheumatoid lung, hamartoma of lung, diffuse interstitial pulmonary fibrosis, endomyocardial fibrosis, the auriculo-temporal syndrome, the Klippel-Feil syndrome, cation exchange resins, pseudohamophilia, thrombasthenia, cat scratch disease, potassiumlosing nephritis, Conn's syndrome, the Rogitine test for phæchromocytoma, and the insulin zine suspensions.

Other additions include the therapeutic use of over thirty new prepara-

tions. Six figures have been omitted, and seven new figures added.

I have received much help in preparing this edition from my publishers, Messrs. J. and A. Churchill, and in particular from Mr. J. Rivers. My secretary, Miss E. G. Smyth, has made many valuable suggestions, has prepared the manuscript for the press, and has helped me with the proof sheets. I am indebted to Miss Josephine Hart for the photograph of my patient suffering from insulin lipodystrophy (Fig. 64), and to Mr. J. Shields for preparing the index of the book.

LONDON.

G. E. BEAUMONT.

PREFACE TO THE FIRST EDITION

It has been my endeavour to produce a text-book of medicine which is not too long for the use of the student preparing for his final examination and which will also be of assistance to the general practitioner. The ideal aimed at has been to include the essentials of medicine and to omit all extraneous matter, to give the student a clear account of the essential features of each disease described, and to supply the practitioner with information as to the investigations required to establish the diagnosis in any particular disease, together with an up-to-date account of a definite line of treatment.

Special attention is directed to clinical findings. Several detailed diet sheets are given, such as those suitable for the treatment of pneumonia, typhoid fever, diabetes, nephritis, gastric ulcer, obesity, constipation, etc. The appropriate dosage, prescriptions and methods of administration of drugs are included in the treatment sections of the various diseases, over one hundred prescriptions being given in full. No effort has been spared to bring every article up to date, to illustrate them with explanatory diagrams, figures and temperature charts, and to connect them with cross references. A series of diagrams, illustrating the anatomy and physiology of the parts concerned, has been introduced into the chapter dealing with nervous diseases, so that this difficult branch of medicine may be more easily understood. The old anatomical terminology has been employed, but a glossary showing the corresponding terms in the international (B.N.A.) nomenclature is included at the beginning of the book.

It is still the duty of the general physician, attached to the teaching staff of a general hospital, to care for patients suffering from most branches of medical diseases, and to instruct students in the symptoms, signs and treatment of such diseases. Such is the reply, if reply be needed, to the criticism that the day of the one-man text-book has passed. If this is so, it could be argued that no single physician should be allowed to teach general medicine

and have charge of general medical wards.

Psychological and Dermatological medicine have not been included. They are highly specialised subjects, which are not dealt with in the general medical wards of a hospital. It is true that the student and practitioner must have a working knowledge of these branches of medicine, but this is best acquired from practical experience in the special departments of a general hospital. Infectious fevers have been included, as they frequently cause difficulty in the diagnosis of other medical diseases, and they are so important in general practice. Apart from this, the diseases described are those treated in the medical wards of a general hospital.

This book is largely based upon personal experience in hospital and private practice, and I am indebted first of all to my teachers, and secondly to the authors of the numerous books and articles which I have read. I should like to acknowledge them in detail, but space does not permit, and I take this opportunity of thanking them all for the information they have put before

the medical profession.

It is a great pleasure to express my gratitude to Dr. Lee Lander, who has read the typescript and made valuable suggestions and alterations. The publishers of this volume have rendered me every facility and assistance; they have been patient during the five years it has taken me to write and rewrite the manuscript, and I cannot thank them sufficiently for their help and courtesy.

G. E. BEAUMONT.

ANATOMICAL GLOSSARY

Old Nomenclature		I	ntern	ational (B.N.A.) Nomenclature
Fissure of Rolando .	•	•		Central sulcus.
Sylvian fissure	•		•	Lateral cerebral fissure.
Lenticular nucleus .	•		•	Lentiform nucleus.
Foramen of Monro .		•		Interventricular foramen.
Foramen of Majendie .			•	Medial aperture.
Foramen of Luschka .				Lateral aperture.
Sylvian aqueduct .	•			Cerebral aqueduct.
Valve of Vieussens .				Anterior medullary velum.
Crus cerebri				Cerebral peduncle.
Superior corpus quadrigen	ai num			Superior colliculus.
Inferior corpus quadrigem				Inferior colliculus.
Superior cerebellar peduno	ele		•	Brachium conjunctivum.
Middle cerebellar pedunck	е.			Brachium pontis.
Inferior cerebellar pedunc				Restiform body.
Cisterna magna				Cisterna cerebello-medullaris.
Cisterna basalis				Cisterna interpeduncularis.
Superior longitudinal sinu	s.			~
Inferior longitudinal sinus				Inferior sagittal sinus.
Circular sinus				
	•			
Basilar sinus Lateral sinus Pacchionian bodies . Gasserian ganglion				Transverse sinus.
Pacchionian bodies .	•	·		Arachnoideal granulations.
Gasserian ganglion .			•	a .,
Ganglion of Scarpa .			•	~ ~ ~
Deiters' nucleus		•	•	
Column of Goll	•		•	Funiculus gracilis.
Column of Burdach .	•	•	•	Funiculus cuneatus.
Direct pyramidal tract	•	•	:	
Crossed pyramidal tract	·	•		Lateral cerebro-spinal tract.
Direct cerebellar tract	•	•		Posterior spino-cerebellar tract.
Indirect cerebellar tract	•		•	
Clarke's column	-	-		Dorsal nucleus.
Circumflex nerve .	-			Axillary nerve.
Lesser internal cutaneous	nerve	·		· · · ·
Intercosto-humeral nerve		•	•	Intercosto-brachial nerve.
External cutaneous nerve		•	•	Posterior cutaneous nerve.
Internal cutaneous nerve		•	:	Medial cutaneous nerve.
Musculo-spiral nerve .	(41111)	•	•	Radial nerve.
Posterior interosseous ner	rve	•	•	Deep branch of radial nerve.
Radial nerve		•	:	~ · ^ · · · · · · · · · · · · · · · · ·
External cutaneous nerve	· (lea)	•	:	Lateral cutaneous nerve.
Internal cutaneous nerve		•	·	Medial cutaneous nerve:
Middle cutaneous nerve (•		Intermediate cutaneous nerve.
Small sciatic nerve .			•	Posterior cutaneous nerve.
Peroneal nerve	•	•	•	Common peroneal nerve.
Anterior crural nerve .				Femoral nerve.
Genito-crural nerve .		-	•	Genito-femoral nerve.
Internal saphenous nerve		:		
Internal popliteal nerve	•	•	:	Tibial nerve.
Anterior tibial nerve .	•	•	•	Deep peroneal nerve.
External saphenous nerv	e .	•	•	Sural nerve.
Musculo-cutaneous nerve		•	•	Superficial peroneal nerve.
Internal plantar nerve	•	•	•	Medial plantar nerve.
External plantar nerve	-	·	-	Lateral plantar nerve.
	•	•		F

BLOOD

Normal Chemical Constituents

Figures are mg./100 ml. unless indicated otherwise. mEq./L = milli-equivalent per litre. This is one thousandth of a gramme equivalent, which is the amount of a compound which can react with, or be substituted for, one gramme of hydrogen. Conversion from mg./100 ml. is effected by the following formula: mEq./L = $\frac{10 \times \text{mg./100 ml.} \times \text{valency}}{\text{atomic weight}}$

ESTIMATION	WHOLE BLOOD	PLASMA OR SERUM
Alkali reserve (as HCO',)		53-77 vol. CO ₂ % (24-25 mEq./L).
Amino-acid nitrogen.	4-8	3-7
Bilirubin (Van den Bergh).	_	0.1-0.8
Calcium (total)	5-7	9-11 (4.5-5.5 mEq./L).
., (diffusible) .		4.2-5.6 (2.1-2.8 mEq./L).
an i ' i i ' i an a '	270-310 (76-87 mEqt/L)	340-370 (96-105 mEq./L).
Cholesterol (total)	110 000	140-280
Creatine	2-8	0.2-0.8
Creatinine	0.5 - 2.5	0.5-2.5
Diastase (amylase) .		50-150 glucose units.
Icterus index		1–6 units.
Iron		0.08-0.18
Non-protein nitrogen .	25-30	20-40
Phosphatase (acid)		1-3 King-Armstrong units/100 ml
Phosphatase (alkaline)		3-13 King-Armstrong units/100 m
Phosphate (inorganic, as P	2.5-5	2-4.5
Potassium (as K.)	150-250 (38-64 mEq./L)	17-22 (4·4-5·6 mEq./L).
Protein (total)		5·5-8 G./100 ml.
Albumin		3·5-6 G./100 ml.
Globulin		1·5-3 G./100 ml.
Fibrinogen	<u> </u>	0·2-0·4 G./100 ml.
Prothrombin time .	<u> </u>	14-16 seconds
,, concentration		70%-140%
G 11 / NT)	170-225 (74-98 mEq./L)	320-345 (139-150 mEq./L)
Glucose (fasting) .	60–110	60–110
I Imaa	15-40	15-40
Uric acid	1-4	1-4
Vitamin A		0·02-0·05 (70-20 i.u./100 ml.)
Vitamin C	0.6–1.8	0.5-2.0

CONTENTS

HAPTER I.	THE ALIMENTARY SYSTEM	PAGE 1
	Introductory	1
	The Mouth and Pharynx	1
	Gingivitis. Pyorrhœa alveolaris. Dental abscesses. Halitosis. Stomatitis. The Stevens-Johnson syndrome. Behçet's syndrome. Ludwig's angina. Tonsillitis. Vincent's angina. Quinsy. Tuberculosis, syphilis and tumours of the tonsil. Acute glossitis. Chronic glossitis. Leukoplakia. Geographical tongue. Ulcers, tumours and granulomata of the tongue. Acute pharyngitis. Chronic pharyngitis. Retropharyngeal abscess. Ulcers and tumours of the pharynx. Pharyngeal neuroses.	
	The Salivary Glands	14
	Ptyalism. Xerostomia. Acute septic parotitis. Chronic parotitis. Mikulicz's disease. Tumours and calculi.	
	The Esophagus	16
	Acute œsophagitis. Chronic œsophagitis. Obstruction. Carcinoma. Sarcoma. Simple tumours. Syphilis. Diverticula. Varices. Ulceration. Rupture. Dysphagia.	
	The Stomach	24
	Acute gastritis. Chronic gastritis. Gastric dyspepsias. Hypochlorhydria. Hyperchlorhydria. Flatulent dyspepsia. Bulimia. Anorexia nervosa. Heartburn. Waterbrash. Acute dilatation. Chronic dilatation. Congenital hypertrophic stenosis of the pylorus. Hypertrophic stenosis of the pylorus in adults. Cascade stomach. Hæmatemesis. Vomiting. Ulcer. Diverticula. Carcinoma. Sarcoma. Benign tumours, cysts and foreign bodies. Tuberculosis. Syphilis.	
	The Intestines	44
	Duodenal ulcer. Dumping syndrome. Duodenal obstruction. Duodenal ileus. Duodenal diverticula. Carcinoma of the duodenum. Duodenitis. Jejunal ulcer. Gastro-colic fistula. Intestinal diverticula. Regional ileitis. Appendicitis. Irritable colon. Acute catarrhal colitis. Chronic catarrhal colitis. Colitis. Ulcerative colitis. Intussusception. Intestinal obstruction. Intestinal new growths. Intestinal argentaffin carcinoma. Hirschsprung's disease. Steatorrhea. Celiac disease. Celiac disease in adults. Constipation. Diarrhea. Visceroptosis. Proctalgia fugax.	
	The Pancreas	72
	Introductory. Acute pancreatitis. Chronic pancreatitis. Fibrocystic disease. Tumours, simple and malignant. Cysts. Calculi.	

CHAPTER	The Liver, Gall-Bladder and Bile Ducts	PAGE 78
	Introductory. Hepatic efficiency tests. Hepatitis. Malformations and displacements. Hyperæmia. Infarction. Perihepatitis. Liver abscess. Suppurative pylephlebitis. Thrombosis of hepatic veins. Portal thrombosis. Cysts of the liver. Calcification of the liver. Cirrhosis of the liver; portal cirrhosis, post-necrotic cirrhosis, biliary cirrhosis, Hanot's cirrhosis, Charcot's cirrhosis, pericellular cirrhosis, capsular cirrhosis, pigmentary cirrhosis, parasitic cirrhosis, syphilitic cirrhosis, congestive cirrhosis. Jaundice. Obstructive, toxic and infective hepatic, hæmolytic. Jaundice in the new-born. Erythroblastosis fœtalis. Infective hepatitis. Homologous serum jaundice. Acute massive liver necrosis. Hepatic coma. Carcinoma of the liver. Sarcoma of the liver. Hodgkin's disease. Amyloid liver. Fatty liver. Von Gierke's disease. Leukæmic liver. Tuberculosis of the liver. Syphilis of the liver. Actinomycosis of the liver. Acute cholecystitis. Subacute cholecystitis. Chronic cholecystitis. Torsion of the gall-bladder. Parasitic infections of the gall-bladder. Tumours of the gall-bladder. Carcinoma of the gall-bladder. Gall-stones. Post-cholecystectomy syndrome. Congenital obliteration of the bile ducts. Suppurative cholangitis. Catarrhal cholangitis. Tumours of the bile ducts.	
	The Peritoneum Acute peritonitis, tuberculous peritonitis, gonococcal peritonitis, bile peritonitis. Sub-diaphragmatic abscess. Chronic peritonitis; localised and diffuse plastic peritonitis, tuberculous peritonitis. Cysts. New growths. Ascites.	114
	The Mesentery Inflammation. Structural abnormalities. Hæmorrhage. Thrombosis and embolus. Cysts and new growths. Tuberculous glands.	122
JI.	THE RESPIRATORY SYSTEM	124
	Introductory	124
K	The Upper Respiratory Tract. Hay fever. Epistaxis. Acute simple laryngitis. Chronic simple laryngitis. Tuberculous laryngitis. Syphilis of the larynx. Tumours of the larynx. Œdema of the larynx. Croup. Laryngitis stridulosa. Laryngismus stridulus. Infantile laryngeal stridor. Laryngeal paralysis. Functional aphonia. Organic laryngeal paralysis.	124
	The Trachea	133
	Tracheitis. Tracheal obstruction. Tracheal diverticula.	
	The Bronchi Acute tracheobronchitis. Capillary bronchitis. Acute suppurative bronchitis. Acute fibrinous bronchitis. Chronic bronchitis. Chronic suppurative bronchitis. Chronic fibrinous bronchitis. Bronchiectasis. diverticula. Asthma. Bronchial obstruction. Adenoma. Carcinoma. Injury to the bronchi.	164

HAPTER		PAGE
	The Lungs	150
	Congenital agenesis of a lung. Sequestration of a lung. The bacterial pneumonias; pneumococcal pneumonia, streptococcal pneumonia, staphylococcal pneumonia, Friedlander's pneumonia. Other bacterial pneumonias. Bronchopneumonia in infants. Viral and rickettsial pneumonias. Primary atypical pneumonia. Pneumonitis. Aspiration lung infections. Pulmonary tuberculosis. Emphysema. Tumours. Fibrosis. Pneumokoniosis. Syphilis. Actinomycosis. Aspergillosis. Moniliasis. North American blastomycosis. Collapse of the lungs. Hypersemia. Hæmorrhagic concussion. Œdema. Infarction. Hæmoptysis. Abscess. Gangrene. Hydatid disease. Dermoid cysts. Congenital cysts. Paragonomiasis.	
	The Pleuræ	194
	Acute dry pleurisy. Chronic dry pleurisy. Pleural effusion; hydrothorax, empyema, hæmothorax, hæmoserothorax, hæmohydrothorax, chylothorax, pseudochylothorax, chyliform effusions. Pneumothorax. Spontaneous hæmopneumothorax. New growths. Calcification.	
	The Mediastinum	208
	Mediastinitis. Mediastinal emphysema. Enlarged mediastinal glands. Tumours. Cysts.	
	The Diaphragm	210
	Hiccough. Paralysis. Hernia. Eventration. Flutter.	210
ın.	THE CARDIO-VASCULAR SYSTEM	213
	Introductory	213
	The X-ray appearances of the heart. X-ray kymography. The normal electrocardiogram. Angiocardiography.	
	The Pericardium	215
	Acute fibrinous pericarditis. Pericardial effusion, sero- fibrinous pericarditis, hydropericardium, pyopericardium, hæmopericardium, hæmoseropericardium, hæmohydro- pericardium. Calcified pericardium. Pyopneumoperi- cardium. Pneumopericardium. Adherent pericardium. New growths and cysts of the pericardium.	
	The Neuro-Myocardium	222
	Disorders of rate and rhythm; simple tachycardia, the effort syndrome, simple bradycardia, sinus arrhythmia, paroxysmal tachycardia, simple paroxysmal tachycardia, nodal tachycardia, ventricular tachycardia, paroxysms of auricular flutter, paroxysms of auricular fibrillation, premature systoles, auricular fibrillation, auricular flutter, ventricular fibrillation. Heart-block; sino-auricular block, auriculo-ventricular block, bundle-branch block, the Wolff-Parkinson-White syndrome, arborisation block. Pulsus alternans. Pulsus paradoxus.	

CHAPTER	·-	PAGE
	The Myocardium	233
	The Endocardium	249
	Acute bacterial endocarditis. Subacute bacterial endo- carditis. Non-bacterial endocarditis. Acute rheumatic carditis. Chronic valvular disease. Mitral incompetence. Mitral stenosis. Aortic incompetence. Aortic stenosis. Tricuspid incompetence. Tricuspid stenosis. Pulmonary regurgitation. Pulmonary stenosis.	
	Congenital Disease of the Heart . Congenital pulmonary stenosis. Patent ductus arteriosus, Patent interventricular septum. Patent foramen ovale. Coarctation of the aorta. Fallot's tetralogy. Tricuspid atresia.	265
	Aneurysm	270
	Arteriosclerosis	277
	Thrombosis of the Axillary Vein	280
	High Blood Pressure	280
	Low Blood Pressure	284
	Thrombo-anglitis Obliterans	284
	Thrombo-phlebitis Migrans	287
	Erythromelalgia	287 288
	Audia manustia (Cidama	289
	Milroy's Disease	290
IV.	THE NERVOUS SYSTEM	292
14.	Introductory	292
	Anatomy and physiology. Nervous disease case sheet.	
	Meningitis	303

CHAPTER	The Cerebrum	313
	Extradural hæmorrhage. Concussion. Subdural hæmatoma. Subarachnoid hæmorrhage. Intracerebral hæmorrhage. Cerebral thrombosis. Cerebral embolus. Sinus thrombosis. Intraceranial tumours. Abscess of the brain. Hydrocephalus. Aphasia. Encephalitis lethargica. Acute disseminated encephalomyelitis. Encephalitis periaxialis diffusa. Cerebral diplegia. Amaurotic family idiocy. Tuberous sclerosis. Epilepsy. Chorea. Huntington's chorea. Pink disease. Paralysis agitans. Progressive lenticular degeneration. Migraine. Headache. Obsessive compulsive neurosis. Professional cramp. Hysteria. Neurasthenia.	
	The Cerebellum Anatomy and physiology. Hypoplasia. Atrophy. Hæmorrhage. The cerebellar syndrome. Thrombosis. Tumours. Extra-cerebellar tumours. Abscess. Cortical cerebellar atrophy.	368
	The Cranial Nerves The olfactory nerve. The optic nerve. Optic neuritis, papillitis and papillœdema. Retro-bulbar neuritis. Primary optic atrophy. Secondary optic atrophy. The optic chiasma, optic tract, optic radiations and calcarine region. The oculo-motor nerves. The trigeminal nerve. The facial nerve. The auditory nerve. The vestibular nerve. Vertigo. Nystagmus. Ménicre's syndrome. The glosso-pharyngeal nerve. The vagus. The spinal accessory nerve. The hypoglossal nerve.	375
	Syphilis of the Nervous System Meningo-vascular syphilis; cerebral syphilis, spinal syphilis. Parenchymatous syphilis; tabes dorsalis, general paralysis of the insane.	405
	Diseases of the Motor Neurones	413
	The Spinal Cord Hæmatorrhacis. Hæmatomyelia. Myelitis. Compression myelitis. Compression of the cauda equina. Acute poliomyelitis. Landry's paralysis. Disseminated sclerosis. Neuro-myelitis optica. Syringomyelia. Subacute combined degeneration of the cord. Friedreich's ataxia. Spino-cerebellar ataxia. Peroneal muscular atrophy. Progressive spinal muscular atrophy of infants.	417
	The Spinal Nerves Neuralgia. Herpes zoster. Radiculitis. Neuritis. Multiple neuritis. Tumours. The cervical plexus and its branches; the phrenic nerve. The brachial plexus and branches; the long thoracic nerve, the circumflex nerve, the musculospiral nerve, the ulnar nerve, the median nerve, the musculo-cutaneous nerve. Cervical spondylosis. The lumbo-sacral plexus and its branches; the anterior crural nerve, the obturator nerve, the external cutaneous nerve, the sciatic nerve. Sciatica. Prolapsed intervertebral disc.	441

CHAPTER		PAG:
V.	THE URINARY SYSTEM	46
	Introductory	46]
	Abnormalities of the Urine Albuminuria. Albumosuria. Phosphaturia. Oxaluria. Glycosuria. Acetonuria. Indicanuria. Hæmaturia. Hæmoglobinuria. Porphyrinuria. Pneumaturia. Pyuria.	461
	Donal Function Total	467
	Nephritis and Nephrosis	468
	Types of nephritis and nephrosis. Acute glomerulo- nephritis. Focal nephritis. Acute interstitial nephritis. Subacute nephritis. Chronic glomerulonephritis, the œdematous type, the non-œdematous type. The kidney of pregnancy. Arteriolar nephrosclerosis. The nephroses; lipoid nephrosis, amyloid nephrosis. Chronic intercapillary glomerulosclerosis. Acute tubular necrosis. The crush syndrome. The pathogenesis of renal œdema.	
	Uræmia	482
	Acute uræmia. Chronic uræmia. Latent uræmia. Acute convulsive uræmia.	
	Bacterial Infections of the Renal Tract Bacilluria. Bact. coli infections of the urinary tract, pyelitis, acute and chronic. Cystitis. Carcinoma of prostate. Pyelonephritis. Pyonephrosis. Perinephric abscess. Tuberculosis of the kidney. Tuberculous cystitis.	487
	Hydronephrosis	494
	N 1 141 1 1	495
	Between St. Acc at a con-	497
	Movable kidney. Congestion. Infarction. Syphilis. Tumours. Cysts. Fusion.	30
VI.	FLUID AND ELECTROLYTE BALANCE	501
	Basic Physiological Considerations	501
	Types of Disturbances	503
		504
		505
VII.	THE HÆMOPOIETIC AND RETICULO-ENDOTHELIAL SYSTEMS	507
	Tatas dantam	
	Examination of the blood. The bleeding time. Coagula-	507
	tion time. Sedimentation rate. Estimation of pro- thrombin. Sternal puncture. Grouping.	

		C	ONT	ENTS	;				xiii	j
CHAPTER	Leucocytosis								PAGE . 510	-
	Leucopenia		_						. 511	
	Thrombocytosis						•	•	. 511	
	Anæmia .		•			•	•	•	. 511	
	Nutritional depermicious and of diphyllobot amemia, simple syndrome, the Post-hæmorri rhage, the anamias; achæmolysis, con acholuric jau Von Jaksch's bone marrow cytosis.	emia of thrium le achle e nutre lagic an emia of the lagenitandice, anær	ipregilatum orhydi itiona næmia chron emoly al ach sickle nia.	nancy, infest rie ana lanæ s; the nic hæ vsis, Lolurie -cell a	the a ation, emia, e mia o e anæi morrh ederei famili mæmi ias d	næmia tropics the Plu f infa mia of age. ' c's and al jaur a, Coo ue to	s of spal meg ummen ncy, c acute The ha emia, edice, a ley's :	orue an alocyt: -Vinso hlorosi hæmo emolyt chron acquire anæmi	de die on s. s. s. ic	-
	The Leukæmias Acute leukæ leukæmia. C			loroma			· c ly	mphat	52 7	7
	Hodgkin's Disea	se	•						. 532	2
	Splenic Anæmia					•		•	. 535	5
	The Lipoidoses								530	6
	Gaucher's di Schüller-Chri				n-Picl	c dise	ase.	Har	ıd-	
	The Spleen . Enlargement		re, pe	rispler		•	•	٠	. 53	8
	Erythrocytosis		•		•				. 540	0
	Erythræmia			•	•	•			. 54	0
	Enterogenous Cy	yanosis	; .				•		. 54	1
	The Primary Pu Purpura hæ purpura, Her	morrha	igica,	purp ra, pu	ura s	simple: fulmin	x, Sel ans.	hönleir	. 54 3 n's	3
	The Secondary I	Purpur	as		•	•	•	•	. 54	8
	Hæmophilia	•	•	•		٠	•		. 54	8
	Christmas Disea	se	•					•	. 54	9
	Hæmorrhagic T	hromb	ocyth	æmia		•	•		. 54	9
	Hæmorrhagic D	isease	of th	e New	born	•	•	•	. 55	0
	Agammaglobulii	ıæmia	•	•	٠	•	٠	•	. 55	0
VIII.	THE INFECTION Introductory Diphtheria. Whooping-economic Brucellosis.	. Mea Chicke ough. T	sles. n-pox Typho	Germ . Sma id fevo	all-pox er. Th	. Vac e para	cinia. typhoi	Mum id feve	os.	1

HAPTER		P
IX.	INFECTIOUS DISEASES OF KNOWN AND DOUBTFUL ETIOLOGY	5
	Syphilis. Gonorrhœa. Rheumatic fever. Influenza. Tetanus. Actinomycosis. Sarcoidosis. Glandular fever. Glanders. Anthrax. Hydrophobia. Psittacosis. Coccidoimycoss. Toxoplasmosis. Histoplasmosis. Spirochætal jaundice. Tularæmia. Cat scratch disease.	
x.	THE LOCOMOTOR SYSTEM	6
	The Muscles and Fasciæ	€
	Fibrositis. Epidemic myalgia. Dermatomyositis. Primary myositis fibrosa. Progressive myositis ossificans. The muscular dystrophies; pseudohypertrophic muscular dystrophy, juvenile muscular dystrophy, facio-scapulohumeral dystrophy. Amyotonia congenita. Myotonia congenita. Myotonia atrophica. Myasthenia gravis. Familial periodic paralysis.	
	The Bones	6
	Osteitis deformans. Generalised osteitis fibrosa. Focal osteitis fibrosa. Leontiasis ossea. Osteoporosis. Osteomalacia. Multiple myelomatosis. Diffuse osteosclerosis. Osteogenesis imperfecta. Osteopsathyrosis. Achondroplasia. Oxycephaly. Hypertrophic osteoarthropathy.	
	The Collagen Diseases	ϵ
	The Joints Rheumatoid arthritis. Disseminated lupus erythematosus. Osteoarthritis. Rheumatoid spondylitis. Osteoarthritic spondylitis. Still's disease. Specific infective or toxic arthritis. Reiter's disease.	ϵ
VI.	DISORDERS OF METABOLISM	•
XI.	D.C.t. Disease	•
	Introductory. The vitamins. Rickets. Infantile scurvy. Adult scurvy. Beri-beri. Pellagra. Famine ædema. Kwashiorkor.	•
	Glycosuria	6
	Diabetes Mellitus	€
	Acidosis	e
	Alkalosis	6
	Gout	6
	Obesity	•
	Generalised lipomatosis. Localised lipomatosis. Lipodystrophia progressiva. Localised lipodystrophy.	
	Ochronosis	•
	Hæmochromatosis	6
	Primary Amyloidosis	6
	The Fancani Sundrama	G

	CONTENTS	xv
HA PTER		PA Q B
XII.	THE DUCTLESS GLANDS	679
	The Thyroid Gland Introductory. Simple goitre. Hyperthyroidism. Masked hyperthyroidism. Toxic adenoma. Hypothyroidism. Cretinism. Myxædema. Masked hypothyroidism. Acute thyroiditis. Riedel's disease. Lymphadenoid goitre. Tumours. Granulomata. Cysts.	679
	The Parathyroid Glands	692
	Introductory. Hyperparathyroidism. Hypoparathyroidism. Tetany. Idiopathic hypoparathyroidism and pseudohypoparathyroidism.	W
	The Suprarenal Glands	696
	The Pituitary Body Introductory. Hyperpituitarism. Acromegaly. Hypopituitarism. Pituitary infantilism. Hypopituitarism in adults. Diabetes insipidus.	701
	The Thymus Gland	709
	The Pineal Body	709
	The Testes	710
	The Ovaries	710
	Infantilism and Dwarfism	711
III.		713
	Malaria. Blackwater fever. Bacillary dysentery. Amœbiasis. Cholera. Sprue. Plague. Yellow fever. Leprosy. Relapsing fever. Scrub typhus. Trypanosomiasis. Dengue. Yaws. Phlebotomus fever. Rat-bite fever. Leishmaniasis. Kala-azar. Tropical sore.	
KIV.	THE PARASITIC WORMS	746
	The Cestodes	746
	The Tænia solium. The Tænia saginata. The Diphyllo- bothrium latum. The Echinococcus granulosus, hydatid disease. The Hymenolepis nana.	
	The Trematodes	750
	Schistosomiasis; urinary schistosomiasis, intestinal schistosomiasis, Eastern schistosomiasis. Paragonomiasis. Fascioliasis.	
	The Nematodes	753
	Ascariasis. Enterobiasis. Trichuriasis. Trichiniasis. Strongyliasis. Ankylostomiasis. Filariasis. Wucheria bancrofti. Loa loa. Onchocerca volvulus. Dracontiasis.	

CONTENTS

	D. C.							1
XV.	DISEASES DUE TO	PHYS	SICAL	AGE	NTS	•	•	. '
	Caisson Disease .							. '
	Mountain Sickness							. '
	Sea-Sickness .							•
	Heat-Stroke					•	•	•
	Heat Exhaustion .			•				•
	Frost-bite		•					
	Electric Shock and B	urns	•	•	٠	•	•	•
۲۷I.	THE POISONS .						•	
	Introductory .				,			
	Mercury Poisoning							
	Lead Poisoning .	•			•			
	Arsenic Poisoning							
	Alcoholic Poisoning				•			
	Acute alcoholic p	oisonii	nø. ('	hronic	e alcol	olic r	oisoni	nø.
	Delirium tremens.	. Metl	yl alco	ohol p	oisonir	ng.	0.00	p.
	Delirium tremens Benzene Poisoning	. Meth	iyl alco	ohol p	oisonir	ig.	•	•
	Delirium tremens.	. Meth	ıyl alco	ohol p	oisonir	ng.	•	_
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning	. Meth	ıyl alco g .	ohol p	oisonir	ng.	•	
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning	. Meth isonin g	ıyl alco g .	ohol p	oisonii	ng.	•	
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois	. Meth isonin g	ıyl alco g .	ohol p	oisonir	ng.	•	
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism	isonin g soning	ıyl alco g .	ohol p	oisonir	ng.	•	•
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning	isonin g soning	ıyl alco g .	ohol p	oisonir	ng	•	
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poison	isonin g soning	g	ohol p	oisonir	ng		
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poiso Chronic Cocaine Poiso	isonin g soning ning oning	ayl alco	ohol p	oisonit	ng		
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poison Chronic Cocaine Poison Acute Atropine and I	isonin g soning ning oning	ayl alco	ohol p	oisonit	ng		
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poison Chronic Cocaine Poison Acute Atropine and I Phenol Poisoning	isoning soning ning oning Bellado	ayl alco	ohol p	oisonir	ng		
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poison Chronic Cocaine Poison Acute Atropine and I Phenol Poisoning Food Poisoning	isoning soning ning oning Bellade	ayl alco	ohol p	oisonir	ng		
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poisor Chronic Cocaine Poisor Acute Atropine and I Phenol Poisoning Food Poisoning Meat poisoning.	isoning soning ning oning Bellade	yl alco	Poison	oisonir	ng.		inilk.
	Delirium tremens. Benzene Poisoning Carbon Monoxide Po Barbiturate Poisoning Aspirin Poisoning Acute Morphine Pois Morphinism Strychnine Poisoning Acute Cocaine Poison Chronic Cocaine Poison Acute Atropine and I Phenol Poisoning Food Poisoning	isoning soning ning oning Bellade Botu	g onna I lism. g. Fis	Poison Disease poison	oisonir	arried	by n	inilk.

CHAPTER 1

THE ALIMENTARY SYSTEM

Introductory. Special investigations are required in the elucidation of many of the diseases of the alimentary system. These include test meals, opaque meals and enemata, gastroscopy, tests for pancreatic and hepatic efficiency, cholecystography, and bacteriological and chemical examination of the fæces.

THE MOUTH AND PHARYNX Gingivitis

Definition. Inflammation of the gums. There are three varieties: Marginal, general and ulcerative. These will be considered separately.

Marginal Gingivitis

Etiology. Marginal gingivitis is associated with mouth-breathing, lack of efficient mastication and cleanliness of the gums, and the use of hard tooth brushes and tooth picks.

Clinical Findings. The patient may complain of bleeding or soreness of the gums on brushing the teeth. The gums are red and swollen at their margins, or they may be retracted around the teeth. Pus may be squeezed from between the gums and teeth.

Treatment. The causes of mouth-breathing should be eradicated if possible. Tartar should be removed from the teeth, and the gums massaged with the fingers towards the teeth, night and morning. The tooth brush should be small and soft, and no gritty powder used. A mouth-wash of milk of magnesia should be used at night.

General Gingivitis

Etiology. General gingivitis may be caused by drugs such as mercury or lead, or result from ill-fitting dentures and inattention to the teeth. It may also occur during pregnancy, in scurvy, or in association with any severe illness.

Clinical Findings. The gums are red, swollen, sore and bleed on pressure. A blue line may be seen in lead poisoning.

Treatment. This is as for marginal gingivitis. In scorbutic or prescorbutic conditions, as judged by urine tests, vitamin C should be given until the patient is saturated. The initial dose is ascorbic acid tab. mg. 50, 2 t.i.d. followed after a few days by mg. 50 b.i.d.

Ulcerative Gingivitis

Etiology. Ulcerative gingivitis is associated with the fusiform bacillus and the treponeme of Vincent. Pyogenic organisms may also be present.

Clinical Findings. There is an acute infection, often with pyrexia.

The gums are painful and swollen. Sloughing may occur and the teeth fall out. The infection may spread to the tonsils or pharynx.

Treatment. The ulcers should be painted with a solution of liquarsenical. m. 90, the ipecae. m. 90, glycerin. m. 60, and, in addition, a mouth-wash such as gargarisma pot chlorat should be used frequently. Good results have been obtained in some cases by the oral administration of nicotinic acid tab. mg. 50, 1 five times daily for 10 days. A penicillin lozenge may be placed between the affected area of the gum and the cheek, and allowed to dissolve, every hour for 8 doses, or the gum may be sprayed with a penicillin solution (1,000 units per ml.) every 2 hours. In severe cases the best result is obtained by the intramuscular injection of 300,000 units of a procaine penicillin every morning and evening for 5 days.

Pyorrhœa Alveolaris

This may be a more advanced stage of marginal gingivitis, or occur independently. There is inflammation of the periodontal membrane around the tooth root, and later rarefying osteitis of the alveolar margin. No specific causative organism has been found, but streptococci and various anaerobes are usually present. Innumerable ills are attributed to pyorrhæa, from mild degrees of ill-health to crippling attacks of rheumatism and fatal illnesses such as malignant endocarditis. However this may be, pyorrhæa should be adequately treated by a dental surgeon, but wholesale extractions for marginal gingivitis are to be deprecated.

Dental Abscesses

The Alveolar Abscess. This may result either from dental caries leading to inflammation and death of the pulp of the tooth, or from periodontitis. The abscess is painful.

The Small Apical Abscess. This is usually due to infection of the pulp in a crowned or carious tooth. There is no actual pus present, but a small granulomatous mass, which often causes no local symptoms, is revealed by X-ray examination. The focal infection is considered to be etiologically connected with numerous diseases, such as rheumatism, thrombo-phlebitis migrans, infective endocarditis, etc.

The offending tooth should be extracted.

Halitosis

Definition. Offensive breath.

Etiology. Halitosis may be due to numerous causes, such as chronic tonsillitis, pyorrhoca, infection of the antra or adenoids, chronic gastritis, bronchiectasis, etc.

Stomatitis

Definition. Inflammation of the mucous membrane lining the mouth. Six varieties are described.

Catarrhal (Simple) Stomatitis

Etiology. Catarrhal stomatitis may be due to local causes, such as a sharp tooth, very hot food. or over-smoking. It may also result from