TABLE OF CONTENTS OF VOLUME FIRST.

CHAPTER I.

CHAPTER 1.	2 200
	AGE
THE ADRENALS IN CLINICAL PATHOLOGY AND THERAPEUTICS	3
Similarity of the Effects of Removal of the Adrenals in all Ver-	3
tebrates, including Man	9
Functions of the Adrenais that are Suppressed when these	9
Organs are Removed Effects of the Adrenal Secretion on the Cardio-vascular System.	11
The Adrenal Secretion and the Cardiac Muscle	11
The Adrenal Secretion as Constrictor of Muscular Elements.	14
Action of the Adrenal Secretion upon the Heart	17
Functional Relationship between Arteries and their Capil-	40
laries under the Influence of the Adrenal Secretion	18
Toxins, Poisons, Venoms, and Drugs in Large Doses as In-	10
hibitors of Adrenal Functions	19
Toxics which Produce Congestion or Venous Stasis in the	10
Adrenals	23
Increased Functional Activity of the Adrenals as a Predis-	
posing Cause of Adrenal Hæmorrhage	25
Passive Congestion of the Adrenals by Toxics which Depress	-
the Blood-pressure	30
Degenerative Effects of Toxins and Other Poisons on the	35150
Adrenals	34
The Importance of the Adrenals in Physiology and Pathology	39
The Origin and Structure of the Adrenals and the Chromaffin	
System	40
The Chromaffin System	40
Histology of the Adrenals	44
The Medulla	44
The Cortex	46
The Blood-supply	49
The Lymphatics	50
The Nerve-supply	50
Subsidiary Adrenal and Interrenal Tissues	51
The Carotid Glands	51 52
The Coccygeal Body The Tympanic Glands	52
The Organ of Zuckerkandl	52
The Subsidiary Interrenal Tissues or Adrenal Rests	53
The Dubsidiary Interienal Tissues of Adrenat Itests	00
CHAPTER II.	
THE FUNCTIONS AND DISEASES OF THE ADRENALS	56
Unexplained Properties of the Adrenal Secretion	56
The Adrenal Secretion as the Oxidizing Agent of the Hæmo-	23:
globin	58
The Adrenal Secretion in Pulmonary Respiration	60
The Governing Center of the Adrenals	70
The Pituitaro-adrenal Nerve	70
Hypoadrenia	80
(xxiii)	

THE 7

	TE	

20		74	•
	w		

PAGE	CHAPTER IV.
Functional Hypoadrenia 82	PAG
Functional Hypoadrenia of Infancy and Childhood 83	
Functional Hypoadrenia in the Adult	DISEASES OF THE THYROPARATHYROID APPARATUS
Functional Hypotherina of Old Acc	Disorders due to Deficient Activity of the Thyroparathyroid
Functional Hypoadrenia of Old Age	Apparatus 17
Prophylaxis and Treatment 89	Hypothyroidia
Addison's Disease, or Chronic Progressive Hypoadrenia 97	Etiology and Pathology
Pathogenesis and Symptomatology	Treatment
Treatment 103	Treatment
Terminal Hypoadrenia	Myxœdema, or Progressive Hypothyroidia
Pathogenesis and Symptomatology	Symptomatology and Pathogenesis
Dathology 111	Etiology 19
Pathology	Pathology 19
Treatment	Treatment
Hyperadrenia 115	Infantile Myxædema, or Cretinism
Acute Hyperadrenia and Adrenal Hæmorrhage 116	Symptomatology and Pathogenesis
Pathogenesis and Symptomatology 118	Etiology
Adrenal Hæmorrhage in the Newborn 118	Etiology
Adrenal Hæmorrhage in Children 120	Pathology
Adrenal Hæmorrhage in Adults	Treatment
Diamoia 120	Myxedematous Infantilism
Diagnosis	Symptomatology and Pathogenesis
Prognosis 124	Diagnosis
Treatment 124	Lorain Type of Infantilism 20
Adrenal Hæmatoma 126	Mongolian Infantilism
Pathogenesis and Symptomatology 126	Achondroplasia, or Fætal Rickets
Diagnosis 128	Achondrophasia, or Fedai Rickets
Prognosis 129	Treatment
Treatment	Thyroid Hyperæmia and Thyroiditis
Tunomanh nama	Symptomatology 20
Hypernephroma 129	Diagnosis
Pathogenesis and Symptomatology	Treatment 20
Malignant Hypernephroma of the Adrenals	
Diagnosis 132	
Hypernephroma of the Kidney	CHAPTER V.
Diagnosis 134	
Pathology 136	DISEASES OF THE THYROPARATHYROID APPARATUS (Continued) 21
Prognosis	Disorders due to Excessive Activity of the Thyroparathyroid
Treatment	Disorders due to Excessive Activity of the Thytoparachytota
Cancer of the Adrenals	Apparatus 21
Cancer of the Adrenais	Hyperthyroidia
Varieties 137	Exophthalmic Goiter
Symptoms 138	Pathogenesis and Symptomatology
Diagnosis 140	Sthenic or First Stage 21
Treatment 141	Transition Stage 22
	Asthenic or Myxædematous Stage
	Enlarged Thymus as Complicating Factor 22
CHAPTER III.	Etiology
	Etilology
E THYROPARATHYROID APPARATUS IN GENERAL OXIDATION AND	Treatment 23
IMMUNITY 143	Surgical Treatment 23
Prevailing Views as to the Functions of the Thyroid and	Indications 23
Parathyroids 143	Operative Risks and Results 24
Removal of the Thyroid Only	Goiter 24
Ramoval of the Parathyroids Only	Etiology
Removal of the Parathyroids Only	Varieties
Dual Function Theory	Simple Hypothyroid Non-toxic Goiter
Effects of the Internal Secretion of the Thyroid 148	Simple trypothyroid Non-toxic Gotter
Effects of the Internal Secretion of the Parathyroids 149	Pathology
Obscure Features of the Thyroparathyroid Problem 150	Prognosis 25
The Thyroparathyroid Secretion as an Oxidation Activator	Treatment 25
through its Action on Cellular Phosphorus 152	Hyperthyroid or Toxic Goiter
The Thyroparathyroid Secretion as Wright's Opsonin 163	Treatment 25
The Dituitory Rody as the Seat of Thyroconathyraid Control 100	Hypothyroid Degenerative Goiter 25
The Pituitary Body as the Seat of Thyroparathyroid Center 168	be of the second second

Colloid Goiter260Cystic Goiter261Fibrous Goiter261Intrathoracic Goiter261Constrictive Goiter262Lingual Goiter262

Hæmorrhagic Goiter 262
Symptoms of Degenerative Goiter 263
Treatment 265
Surgical Treatment 266

 Operative Risks and Results
 269

 Malignant Goiter
 270

 Congenital Goiter, or Goiter in the Newborn
 272

 Symptoms
 272

 Treatment
 273

 Strumitis, or Inflammation of a Goiter
 274

 Symptoms
 274

 Prognosis
 275

 Treatment
 275

CHAPTER VI.

THE THYROID, THYMUS, PITUITARY, AND ADRENALS IN MENTAL

DEFICIENCY 277
Idiocy and Mental Backwardness in Children 277
The Thyroid Apparatus in Mental Deficiency 278
Stigmata of Deficient Thyroid Activity 278
The Functions of the Thymus 280
Stigmata of Deficient Activity of the Thymus 288

Amaurotic Family Idiocy 303
Treatment 306
Dystrophia Adiposo-genitalis 307
Treatment 309
The Backward Child 309

 Diagnosis and Pathogenesis
 310

 Treatment
 311

 The Prophylaxis of Mental Deficiency in Children
 314

 Prophylactic Treatment
 318

 Development of the Senses
 322

 Hearing
 322

 Vision
 323

 Smell and Taste
 323

 Cutaneous Sensibility
 324

CONTENTS.	XX
	PA
The Hepatic Blood-pigments The Hepatic Tissues in their Relations to Bacteria	. 3
Urea and its Formation	. 3
General Functions of the Liver, Spleen, and Pancreas	. 3
CHAPTER VIII.	
THE INTERNAL SECRETIONS OF THE PANCREAS AND SPLEEN	
Glycosuria and Overactivity of the Adrenal System The Functional Relationship between the Pancreas and Spleen	. 30
The Functional Mechanism of the Pancreas	. 38
The Functional Mechanism of the Spleen	. 39
CHAPTER IX.	
THE ADRENAL SYSTEM IN THE FUNCTIONS OF THE HEART AND LUNGS	
The Adrenal Secretion as the Source of the Functional Activity of the Right Heart	. 42
The Action of the Adrenal Secretion and the Oxidizing Sub- stance upon the Cardiac Muscle)-
The Innervation of the Heart	
Acceleration	
Augmentation	. 44
The Adrenal Secretion in its Relation to Respiratory Functions The Nervo-vascular Mechanism of the Lungs	. 45
The Adrenal System and the Kidneys	. 46
The Adrenal System and the Generative Glands	
Ovaries	
CHAPTER X.	
THE POSTERIOR PITUITARY AS A GENERAL NERVE-CENTER AND AS COCENTER OF THE ANTERIOR PITUITARY IN SUSTAINING	G
The Identity of the Lower Brain	. 48
Histology of the Posterior Pituitary Body	. 49
Clinical Evidence	51
The Physiological Chemistry of Nerves	. 53
The Physiological Chemistry of the Neuron	. 55
The Minute Circulation of the Cerebro-spinal Substance The Posterior Pituitary Body as the Somatic Center of the	. 56
Nervous System	. 59 . 59
Efferent (Motor) Impulses	60
Afferent (Sensory) Impulses	60
Pathogenesis and Symptomatology	. 60
Sthenic Stage	61
Pathology Treatment	61
2. Carollette	01

CHAPTER AL.	AGE
	T. C. L.
THE INTERNAL SECRETIONS AND THE LEUCOCYTES IN IMMUNITY AND	620
THE INTERNAL SECRETIONS AND THE	620
- 1 1 C -t-w as the Coundation of Hillinghity	622
	623
Thyroparathyroid Apparatus	624
	044
	000
Genesis of Fever	628
Genesis of Fever Concluding Remarks The Leucocyte in its Relations to Nutrition, Organic Functions,	632
The Lauceaute in its Relations to Nutrition, Organic Functions,	200
and Immunity	633
	633
The Mitoma Functional Mechanism of the Leucocyte Functional Mechanism of the Leucocyte	639
	644
	647
The Physiological Chemistry of Education Classification of Leucocytes	650
Classification of Leucocytes Lymphocytes and Hyaline Cells	652
Neutrophile Leucocytes Assimilation	653
Neutrophile Leucocytes in Assimilation	654
The Neutrophile Leucocytes in Assimitation Ehrlich's Eosinophile Leucocytes The Basophile Leucocytes in Immunity	680
The Basophile Leucocytes Immunity	691
The Functions of the Leucocytes in Immunity Onsonins Enhance	
The Functions of the Leucocyces in Immuno How Bacterins (Vaccines) Act and How Opsonins Enhance Phagocytosis	696
Phagocytosis	698
A Simplified Theory of Immunity	
CHAPTER XII.	
OPCANONUEDAPY	700
THE INTERNAL SECRETIONS AND ORGANOTHERAPY	700
THE INTERNAL SECRETIONS AND ORGANOTHERAPY The Fundamental Principles of the Action of Organic Prepara	. 700
THE INTERNAL SECRETIONS AND ORGANOTHERAPY The Fundamental Principles of the Action of Organic Preparations	. 700 . 708
THE INTERNAL SECRETIONS AND ORGANOTHERAPY The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy	. 700 . 708 . 711
THE INTERNAL SECRETIONS AND ORGANOTHERAPY The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity	. 700 . 708 . 711 . 716
THE INTERNAL SECRETIONS AND ORGANOTHERAPY The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy	. 700 . 708 . 711 . 716 . 724
THE INTERNAL SECRETIONS AND ORGANOTHERAPY The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity	. 700 . 708 . 711 . 716 . 724 . 727
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease	. 700 . 708 . 711 . 716 . 724 . 727 . 728
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738 . 739
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738 . 739
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738 . 739 . 739
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738 . 739 . 739 . 741
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 739 . 736 . 737 . 738 . 739 . 741 . 742 . 742
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 739 . 736 . 737 . 738 . 739 . 741 . 742 . 742
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Prepara tions Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany Non-operative Hypoparathyroid Tetany	. 700 . 708 . 711 . 716 . 724 . 727 . 728 . 739 . 736 . 737 . 738 . 739 . 741 . 742 . 742 . 743
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany Non-operative Hypoparathyroid Tetany Treatment	. 700 . 708 . 718 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 736 . 737 . 738 . 739 . 741 . 742 . 742 . 744 . 744
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany Non-operative Hypoparathyroid Tetany Treatment Paralysis Agitans	. 700 . 708 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738 . 739 . 741 . 742 . 742 . 743 . 741 . 742 . 743
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany Non-operative Hypoparathyroid Tetany Treatment Paralysis Agitans Adrenal Opotherapy	. 700 . 708 . 708 . 711 . 716 . 724 . 727 . 728 . 729 . 733 . 734 . 736 . 737 . 738 . 741 . 742 . 742 . 743 . 744 . 750 . 750
The Internal Secretions and Organotherapy The Fundamental Principles of the Action of Organic Preparations Thyroid Organotherapy Insanity Epilepsy Obesity Adiposis Dolorosa; Dercum's Disease Goiter Chronic Rheumatism Enuresis Skin Diseases Hæmophilia Surgical Disorders Febrile Infections Cancer Parathyroid Organotherapy Hypoparathyroid Tetany Symptomatology Post-operative Parathyroid Tetany Non-operative Hypoparathyroid Tetany Treatment	. 700 . 708 . 708 . 711 . 716 . 724 . 727 . 728 . 739 . 734 . 737 . 738 . 739 . 741 . 742 . 743 . 744 . 747 . 755 . 754

	PAG	
Toxæmias	75	
Toxemias	. 78	
Cardiac Disorders Respiratory Disorders	. 71	
Ascites and Other Effusions	. 7	
		64
General Indications of Adrenal Treparations Pituitary Organotherapy	. 7	65
Pituitary Organotherapy Cardiac Disorders	. 7	67
		68
Obstetrics Infectious Diseases	. 7	70
		71
Acromegaly Exophthalmic Goiter Exophthalmic Handle Discusses and Myonathies	. 1	72
Exophthalmic Gotter Nervous and Mental Diseases and Myopathies	. 7	73
Nervous and Mental Diseases and Myopathas Stunted Growth and Imbecility	- 1	73
Stunted Growth and Impeciaty Intestinal Paresis		74
Intestinal Paresis Arthritis	. 1	75
Arthritis		75
		75
		776
Hemoptysis Ovarian Organotherapy		776
Ovarian Organotherapy Natural and Artificial Menopause	200	777
		779
Menstrual Disorders; Menopause; Oöphorectomy	4	779
		-00
Sterility; Infantile Generative Organs, Habitual Hyperemesis of Pregnancy Orchitic or Testicular Organotherapy	100	780
Orghitic or Testicular Organotherapy	100	781
Tabes	90	782
		782
		782
		782 782
		782
The second control of		782
		789
		782
	OMES-CO.	782
707		782
		782
		782
Marasmus Typhoid Fever	in a second	782
		782
		782
4 11' - In Discours		782
Kidney Organotherapy Epilepsy		783
		784
Chronic Nephritis Bright's Disease		784
Bright's Disease Puerperal Intoxications		784
Mammary Gland Organotherapy	STATE OF	785
Uterine Fibroid		785
Uterine Subinvolution		
		786
Lactation	272 0	786
Thymus Organotherapy	2000	
Diseases of Thyroid	100000	786
Goiter		
Exophthalmic Goiter		100

	PA
Rachitis, or Rickets	7
Brain and Nerve Substance Organotherapy	7
Tetanus	7
Hydrophobia	7
Strychnine Poisoning	7
Morphine Poisoning	7
Neurasthenia	7
Hysteria	100
Chorea	7
Tie,	200
The language	
Epilepsy	
The Pineal Gland Organotherapy	2 2
Backward Children	ME . 40
Hormone Therapy	
Chronic Constipation	7
Post-operative Intestinal Paralysis	7
Volvulus	7
Intestinal Occlusion	7
ev ma Varrage Pipem	7

ILLUSTRATIONS IN VOLUME FIRST.

	AGE
The Adrenal System (Sajous) Frontisp	
Circulation of the Adrenals in the Dog (J. M. Flint)	34
The Adrenal Vessels in the Young and Old (Landau)	88
Hypothyroidia (Léopold-Lévi and de Rothschild)	182
	200
Thyroid Extract in Cretinism (McGee)	218
Vascular Supply of the Thyroid Gland (Pochet-Johnson)	297
Anencephaly (McKee and Wells)	291
Section of Liver, showing the Lobules, Cells, and the Blood-supply	000
(Piersol)	329
Biliary Canaliculi (Mathias Duval)	330
Liver of Rabbit Injected from the Portal Vein (E. A. Schäfer)	340
Camera-Lucida Tracing of the Lobule Boundaries in One of a Series	
of Sections from the Splenic End of a Cat's Pancreas (Eugene	
L. Opie)	398
Termination of Small Blood-vessels in the Spleen (Gray)	401
Circulation of the Human Heart (Arthur V. Meigs)	436
Mechanism of Cardiac Action (Sajous)	444
Penile Transformation of Clitoris and Adult Hirsuties due to	
Hypernephroma in Girl of Seven Years (Jump, Beates, and	
Babcock)	476
Median and Vertical Section of a Three Months' Embryo (Dejerine).	490
Vertical Section of the Posterior Pituitary Body (Berkley)	494
Various Types of Cells in the Posterior Pituitary Body (Berkley)	496
Various Types of Cells in the Posterior Pituitary Body. Portion of	
Glandular Elements of the Anterior Pituitary Body (Berkley).	498
Median and Vertical Section of a Two and One-half Months' Embryo	
(His)	510
Diagram of Relation between Longitudinal and Transverse Sections	
showing Cones Cut Across at Different Levels (W. H. Wynn)	537
Nerve-fibers from a Frog Injected with Methylene-blue (Kölliker)	541
Sensory Nerve-ending Stained with Methylene-blue in the Exocar-	
dium of the Left Auricle of a Gray Rat (Smirnow)	542
Lesions in the Neurons of Animals after Ricin Poisoning (Berkley).	550
Lesions in the Neurons of Animals after Ricin Poisoning (Berkley).	552
Schematic Representation of the Lower Motor Neuron (Barker)	558
A Protoplasmic Glia-cell from a Human Brain (First Layer of Cor-	000
tex) (Andriezen)	564
Leucocytes in the Perivascular Spaces and in Vessels, as a Result of	904
Acute Alcoholic Poisoning (Berkley)	579
	312
(vxvi)	

PAGE	
Protoplasmic Neuroglia-cell from the Human Brain (Fourth Layer of Cortex), showing Two Expanded Conical Disk-like	
Attachments to a Vessel (Andriezen)	
Blood-vessel of the Human Brain, showing Several Tearly Blood-vessel of the Human Brain, showing a Felt-work (Perivascular	
System) (Andriezen) the Human Brain-cortex (First	
Layer) (Andriezen) f the Protonlasmic Apical Processes	
in the First Layer (Human Brain-cortex) (Alberta Layer (Human Brai	
Region of the Brain (Berkley)	
The Posterior Pituitary Body as General 598 System (Sajous)	-
Pituitary Body, Containing Immunizing Center (semiscionaries) 634	
Leucocytes; their Mitoma and Microsoftics (Metchnikoff)	
Crotinia (mesity (Sunderson)	

CHAPTER I.

THE ADRENALS IN CLINICAL PATHOLOGY AND THERAPEUTICS.

SIMILARITY OF THE EFFECTS OF REMOVAL OF THE ADRENALS IN ALL VERTEBRATES, INCLUDING MAN.

Brown-Séquard, in 1856, demonstrated the physiological importance of the suprarenal capsules by showing that removal of these organs from animals was soon followed by death. To offset the conclusions of Phillipeaux and Gratiolet, who ascribed death to secondary involvement of the central nervous system, he extended his researches, and showed, first, that transfusion of blood taken from a normal animal into a dying, decapsulated animal brought the latter to life, and, second, that the blood of a dying, decapsulated animal was poisonous to another decapsulated animal, the life of the latter being shortened by eight hours as compared to the average longevity of other animals similarly mutilated.

A certain degree of antagonism to Brown-Séquard's conclusions long prevailed among a limited number of investigators, who ascribed death in animals from which both adrenals had been extirpated to surgical shock—a view apparently sustained by the close relationship that exists between these organs and the sympathetic system. That such may be the case under some circumstances: i.e., the use of an animal debilitated by starvation or rough handling, lack of dexterity in the extirpation of the organs, is to be surmised; but, when all features that tend to compromise the issue are absent, there is not the least ground for the view that shock is the cause of death in decapsulated animals. As shown by Langlois, no marked symptoms usually occur during the first twenty-four hours. The fatal

¹ Brown-Séquard: Comptes-Rendus de l'Académie des Sciences, vol. xviii,

Brown-Séquard: Journal de Physiologie, vol. i, 1858.
 Langlois: Archives de Physiologie norm. et path., vol., 1897.