

CONTENTS

VOLUME II

Chapter 9

| | |
|--|-----|
| ANOMALIES OF THE GENITOURINARY TRACT | 565 |
| Clinical Classification of Anomalies..... | 565 |
| The Kidney and Ureter..... | 566 |
| Embryology of the Kidney and Ureter..... | 566 |
| Anomalies in Number..... | 569 |
| Anomalies in Size..... | 577 |
| Anomalies in Position..... | 579 |
| Anomalies in Form..... | 604 |
| Anomalies in Structure..... | 642 |
| The Renal Pelvis and Ureter..... | 642 |
| Anomalies in Number..... | 642 |
| Anomalies of Ureteropelvic Junction; Obstruction at Ureteropelvic Junction..... | 672 |
| Anomalies in Position and Form of Ureter..... | 672 |
| Anomalies of Origin and Termination of the Ureter..... | 684 |
| The Bladder and Urethra..... | 729 |
| Embryology of the Bladder..... | 729 |
| Anomalies of the Urachus..... | 732 |
| Anomalies of the Bladder..... | 736 |
| Embryology of the Urethra..... | 751 |
| Anomalies of the Urethra..... | 755 |
| Deep Pelvic Cysts..... | 765 |
| Congenital Absence of the Abdominal Muscles (Prune Belly Syndrome)..... | 777 |
| Intersexuality; Genitography in the Intersexual State..... | 779 |
| <i>by Charles E. Shopfner</i> | |
| The Nature of Sex..... | 780 |
| Technique of Genitography..... | 784 |
| Classification of Anatomy..... | 785 |
| Comment..... | 790 |
| Urologic Aspects of Ectopic Anus (Imperforate Anus; Anal Atresia)..... | 791 |
| <i>by Charles E. Shopfner</i> | |
| Embryology..... | 792 |
| Technique of Roentgenographic Examination..... | 793 |
| Classification of Roentgen Findings..... | 795 |
| Associated Congenital Anomalies..... | 798 |

| | |
|-------------------------------------|-----|
| Suggested Method of Management..... | 799 |
| Comment | 800 |
| References | 801 |

Chapter 10

| | |
|--|------------|
| INFECTIOUS DISEASES OF THE GENITOURINARY TRACT | 809 |
| <i>by Glen W. Hartman, Joseph W. Segura, and Robert R. Hattery</i> | |
| Acute Pyelonephritis | 809 |
| Gross Pathologic Appearance in Acute Pyelonephritis..... | 809 |
| Microscopic Findings in Acute Pyelonephritis..... | 809 |
| Roentgen Findings in Acute Pyelonephritis | 810 |
| Chronic Pyelonephritis | 817 |
| Routes of Infection..... | 818 |
| Gross Pathologic Changes in Chronic Pyelonephritis | 818 |
| Intrarenal Reflux and the Role of Infection | 819 |
| Roentgen Diagnosis in Chronic Pyelonephritis..... | 821 |
| Vesicoureteral Reflux in Adults..... | 837 |
| Chronic Pyelonephritis in Children..... | 838 |
| Xanthogranulomatous Pyelonephritis..... | 839 |
| Radiographic Findings in Xanthogranulomatous Pyelonephritis | 840 |
| Renal and Perirenal Abscess..... | 842 |
| <i>by H. Peter Jander</i> | |
| Etiology of Renal and Perirenal Abscesses..... | 842 |
| Pathophysiology of Renal and Perirenal Abscesses..... | 843 |
| Clinical Aspects of Renal and Perirenal Abscesses | 844 |
| Roentgen Findings in Renal and Perirenal Abscesses..... | 848 |
| Responses of the Collecting System to Infection..... | 867 |
| Pyeloureteritis and Cystitis Cystica..... | 873 |
| Malacoplakia | 876 |
| Gas-Producing Infections of the Urinary Tract..... | 878 |
| Cystitis | 883 |
| Bacterial Cystitis..... | 883 |
| Interstitial Cystitis..... | 883 |
| Cyclophosphamide Cystitis | 885 |
| Eosinophilic Cystitis | 885 |
| Cystitis Glandularis | 885 |
| Tubercular Cystitis..... | 888 |
| Prostatitis (Acute Bacterial Prostatitis, Chronic Bacterial Prostatitis, Chronic Prostatitis [“Prostatitis”]); Prostatic Duct Abscess..... | 888 |
| Granulomatous Prostatitis..... | 891 |
| Brucellosis of the Urinary Tract..... | 891 |
| Roentgen Findings in Brucellosis | 891 |
| Fungal Infection of the Kidney..... | 895 |
| Renal Candidiasis and Actinomycosis..... | 895 |
| Tuberculosis of the Genitourinary Tract | 898 |
| Pathogenesis of Genitourinary Tuberculosis..... | 898 |
| Clinical and Laboratory Findings in Genitourinary Tuberculosis..... | 898 |
| Roentgen Findings in Genitourinary Tuberculosis..... | 899 |
| Genitotuberculosis | 918 |

| | |
|---|-----|
| Genitourinary Bilharziasis (Schistosomiasis)..... | 921 |
| <i>by Abdel Aziz Zaky Hanna</i> | |
| Pathogenesis of Genitourinary Bilharziasis..... | 922 |
| Pathology of Genitourinary Bilharziasis | 922 |
| Genital Involvement in Bilharziasis | 927 |
| Roentgen Diagnosis in Genitourinary Bilharziasis..... | 927 |
| Echinococcus Cysts (Renal Hydatidosis)..... | 940 |
| Epidemiology of Renal Hydatidosis | 940 |
| Pathogenesis of Genitourinary Infestation in | |
| Renal Hydatidosis | 941 |
| Diagnosis of Renal Hydatidosis | 942 |
| References | 949 |

Chapter 11

| | |
|---|------------|
| URINARY STASIS: THE OBSTRUCTIVE UROPATHIES, ATONY, VESICoureTERAL REFLUX, AND NEUROMUSCULAR DYSFUNCTION OF THE URINARY TRACT | 955 |
| Terminology..... | 955 |
| Classification of Stasis..... | 955 |
| Obstructive and Nonobstructive Varieties of Stasis..... | 955 |
| Pyelectasis (Hydronephrosis)..... | 955 |
| Pathophysiologic Changes in the Kidney | 955 |
| Roentgen Findings in Pyelectasis | 956 |
| Renal Radioisotopic Studies in Pyelectasis..... | 971 |
| Localized Dilatation of Calyx (Hydrocalyx, Calyceal Diverticulum, and Pyelogenic Cyst); Hydrocalycosis..... | 974 |
| Hydrocalycosis..... | 983 |
| Vascular Obstruction of the Infundibulum of the | |
| Upper Calyx | 983 |
| Obstruction at the Ureteropelvic Junction..... | 986 |
| Pathogenesis of Ureteropelvic Junction Obstruction..... | 987 |
| Urographic Diagnosis of Ureteropelvic Junction | |
| Obstruction | 999 |
| Ureterectasis and Ureteropyelectasis | 1005 |
| Obstructive Ureterectasis; Obstruction At or Above | |
| the Ureterovesical Junction | 1011 |
| Vesicoureteral Reflux..... | 1017 |
| <i>by Panayotis P. Kelalis</i> | |
| General Considerations..... | 1018 |
| Roentgen Findings in Vesicoureteral Reflux..... | 1018 |
| Etiology of Vesicoureteral Reflux | 1038 |
| Factors Affecting the Course and Prognosis of | |
| Vesicoureteral Reflux..... | 1050 |
| Vesicoureteral Reflux in Adults..... | 1059 |
| Management of Vesicoureteral Reflux..... | 1062 |
| Stasis Involving the Lower Part of the Urinary Tract..... | 1080 |
| <i>by David C. Utz and David M. Barrett</i> | |
| Neurogenic Bladder | 1080 |
| Congenital Obstruction of the Vesical Neck and | |
| Urethra; Distal Urethral Obstruction; Stenosis of | |
| the Urethral Meatus | 1100 |
| Congenital Urethral Valves | 1106 |
| Urethral Polyps in Boys | 1119 |
| Congenital Stenosis of the Urethral Meatus..... | 1122 |

| | |
|---|------|
| Congenital, Iatrogenic, and Traumatic Strictures of the Urethra in Infants and Children..... | 1123 |
| Vesical Diverticulum..... | 1129 |
| Obstruction of the Bladder Outlet in the Adult Male | 1135 |
| Urethral Diverticulum in the Male..... | 1149 |
| Urethral Stricture in Adult Males..... | 1150 |
| Postoperative Incontinence in the Male..... | 1162 |
| References | 1162 |

Chapter 12

CALCULOUS DISEASE OF THE GENITOURINARY TRACT 1171*by Reza S. Malek*

| | |
|---|------|
| General Considerations..... | 1171 |
| Classification | 1173 |
| Renal Calculi..... | 1176 |
| Clinical Features of Renal Calculi..... | 1176 |
| Roentgen Studies of Renal Calculi | 1179 |
| Pathogenesis and Medical Management..... | 1241 |
| Surgical Management of Renal Calculi | 1283 |
| Renal Calculi in Childhood..... | 1284 |
| Nephrocalcinosis..... | 1285 |
| Ureteral Calculi | 1294 |
| Clinical Features of Ureteral Calculi | 1294 |
| Roentgen Studies of Ureteral Calculi..... | 1294 |
| Management of Ureteral Calculi | 1331 |
| Vesical Calculi..... | 1338 |
| Endemic Calculi | 1338 |
| Clinical Features and Investigations of Vesical Calculi..... | 1340 |
| Management of Vesical Calculi..... | 1349 |
| Prostatic Calculi..... | 1349 |
| Classification of Prostatic Calculi | 1349 |
| Clinical Features of Prostatic Calculi..... | 1352 |
| Roentgen Features of Prostatic Calculi | 1352 |
| Management of Prostatic Calculi..... | 1356 |
| Urethral Calculi | 1359 |
| Clinical Features of Urethral Calculi..... | 1364 |
| Diagnosis of Urethral Calculi..... | 1364 |
| Management of Urethral Calculi | 1365 |
| References | 1365 |

| | |
|--------------------|---|
| INDEX | i |
|--------------------|---|