

# CONTENTS

<b>FOREWORD</b> .....	7
<b>ABBREVIATIONS</b> .....	11
<b>1 INTRODUCTION</b> .....	13
<b>2 ANATOMY OF THE LOWER URINARY TRACT</b> .....	15
2.1 Bladder .....	15
2.2 Urethra .....	16
2.3 Pelvic Floor (Pelvic Diaphragm) .....	17
2.4 Urogenital Diaphragm .....	18
2.5 Suspensory Apparatus of the Vagina .....	19
<b>3 PHYSIOLOGY AND PATHOPHYSIOLOGY OF MICTURITION AND CONTINENCE</b> .....	21
3.1 Physiology of Micturition and Continence Mechanisms .....	21
3.2 Functional Disorders of the Lower Urinary Tract .....	22
3.3 Innervation of the Bladder and Urethra .....	25
<b>4 DEFINITIONS</b> .....	29
4.1 Urodynamic Stress Incontinence .....	30
4.2 Urge Incontinence and Overactive Bladder (OAB) .....	31
4.3 Reflex Incontinence .....	36
4.4 Paradoxical Incontinence .....	37
4.5 Urinary Disorders .....	37
4.6 Pelvic Organ Prolapse .....	42
<b>5 EXAMINATION METHODS</b> .....	47
5.1 Medical History .....	47
5.2 Physical Examination and Clinical Tests .....	49
5.3 Laboratory Examination .....	51
5.4 Urodynamic Examination Methods .....	51
5.5 Leak Point Pressure .....	52
5.6 Imaging Methods .....	53

5.7	Study of Nerve Conductivity, Reflex Latency, and Evoked Potentials . . . . .	56
5.8	Diagnosis of Overactive Bladder (OAB) . . . . .	57
5.9	Conclusions and Recommendations for the Implementation of Basic and Specialized Tests . . . . .	58
<b>6</b>	<b>COMMON CAUSES OF STRESS URINARY INCONTINENCE AND PELVIC ORGAN PROLAPSE . . . . .</b>	<b>61</b>
<b>7</b>	<b>COMMON SURGICAL PROCEDURES FOR STRESS URINARY INCONTINENCE IN WOMEN . . . . .</b>	<b>66</b>
7.1	Burch Colpopexy . . . . .	66
7.2	Marshall-Marchetti-Krantz Operation (MMK) . . . . .	70
7.3	Bladder Neck Suspension by Tape—Sling Operation . . . . .	71
7.4	Suspension of the Urethra According to Pereyra-Stamey-Raz . . . . .	74
7.5	Vaginal Tension-Free Tape Surgeries . . . . .	75
7.5.1	Tension-Free Vaginal Tape (TVT) . . . . .	75
7.5.2	Transobturator Tape . . . . .	80
7.5.3	Retropubic Approach . . . . .	103
7.5.4	Why Do We Use Synthetic Tapes? . . . . .	106
7.5.5	Single-Incision Mini-Slings (SIMS) . . . . .	110
7.6	Bulking Agents . . . . .	111
7.6.1	Bulkamid® . . . . .	112
<b>8</b>	<b>COMMON SURGICAL PROCEDURES FOR THE TREATMENT OF PELVIC FLOOR DEFECTS IN WOMEN . . . . .</b>	<b>119</b>
8.1	Anterior Compartment . . . . .	120
8.1.1	Barnett-Macku Method of Anterior Colporrhaphy . . . . .	121
8.2	Central Compartment . . . . .	126
8.2.1	Amreich II-Richter Sacrospinous Fixation . . . . .	126
8.2.2	Laparoscopic Promontofixation (Sacrocolpopexy) . . . . .	128
8.3	Posterior Compartment . . . . .	133
8.3.1	Colpoperineoplasty . . . . .	134
<b>9</b>	<b>FOREIGN IMPLANT MATERIALS AND SELECTED OPERATION TECHNIQUES . . . . .</b>	<b>140</b>
9.1	A New Approach to Implant Use . . . . .	140
9.1.1	Fixed Implants . . . . .	142
9.1.2	Loosely Placed Implants . . . . .	167
9.1.3	Loosely Placed Trimmed Implants . . . . .	173
9.2	Classification of Materials . . . . .	174
9.2.1	Synthetic Materials . . . . .	174
9.2.2	Biological Materials . . . . .	175

9.3	The Incidence of Complications after Tape Surgery in Women Treated for SUI .....	177
9.4	The Incidence and Treatment of Complications after Prosthetic Reconstructive Surgery of the Pelvic Floor in Women ..	182
<b>10</b>	<b>FREQUENTLY ASKED QUESTIONS RELATED TO SUI AND PELVIC ORGAN PROLAPSE .....</b>	<b>195</b>
10.1	Frequently Asked Questions Related to the Origin and Treatment of SUI .....	195
10.2	Frequently Asked Questions Related to the Origin and Therapeutic Treatment of Pelvic Organ Prolapse.....	197
<b>11</b>	<b>PHARMACOTHERAPY .....</b>	<b>200</b>
11.1	Medical Treatment of SUI.....	200
11.1.1	Options for Medical Treatment of SUI .....	200
11.1.2	The Urethra and Its Role in Maintaining Urinary Continence in Women.....	201
11.1.3	Increase of Outflow Resistance in the Urethra .....	201
11.1.4	New Options in the Medical Treatment of SUI.....	204
11.1.5	Conclusion and Practical Recommendations .....	208
11.2	Treatment of OAB and Urge Urinary Incontinence .....	210
11.2.1	Treatment of Urgency and Urge Urinary Incontinence (OAB)....	210
11.2.2	Overview of the Most Commonly Used Medications in the Treatment of Urgency or Urge Incontinence (OAB).....	213
11.2.3	Conclusion and Practical Recommendations .....	221
<b>12</b>	<b>MISTAKES AND ERRORS IN MEDICAL TREATMENT OF URINARY INCONTINENCE .....</b>	<b>226</b>
	<b>SUMMARY .....</b>	<b>228</b>
	<b>RECOMMENDED READING .....</b>	<b>229</b>
	<b>ABOUT THE AUTHORS .....</b>	<b>242</b>
	<b>INDEX .....</b>	<b>246</b>
	<b>SPECIALIZED EQUIPMENT MANUFACTURERS .....</b>	<b>255</b>
	<b>SURGERY VIDEOS .....</b>	<b>257</b>