

***THE NORMAL GENITO-URINARY TRACT***

**Simplified Anatomy of the Vesicourethral Functional Unit; *Saad Aldousari and Jacques Corcos***

**Pharmacology of the Lower Urinary Tract; *Karl-Erik Andersson***

**Integrated Physiology of the Lower Urinary Tract; *Naoki Yoshimura, Jeong Yun Jeong, Dae Kyung Kim, and Michael B. Chancellor***

**Physiology of Normal Sexual Function; *Pierre Clément, Hélène Gelez, and François Giuliano***

***FUNCTIONAL PATHOLOGY OF THE LOWER URINARY TRACT***

**Epidemiology of the Neurogenic Bladder; *Patrick B. Leu and Ananias C. Diokno***

**Ultrastructure of Neurogenic Bladders; *Axel Haferkamp***

**Pathophysiology of Neurogenic Detrusor Overactivity; *Alexandra McPencow and Toby C. Chai***

**Pathophysiology of Detrusor Underactivity/Acontractile Detrusor; *Dae Kyung Kim and Michael B. Chancellor***

**Pathophysiology of the Low-Compliant Bladder; *Véronique Phé, Emmanuel Chartier-Kastler, Soler Jean-Marc, and Pierre Denys***

**Dyssynergic Sphincter; *Gerard Amarenco, Samer Sheikh Ismael, and Jean M. Soler***

**Pathophysiology of Autonomic Dysreflexia; *Teresa Danforth and David Ginsberg***

**Pathophysiology of Spinal Shock; *Magdy Hassouna, Tarek Hassouna, Nader Elmayergi, and Mazen Abdelhady***

***NEUROLOGIC PATHOLOGIES RESPONSIBLE FOR THE DEVELOPMENT OF THE NEUROGENIC BLADDER***

**Systemic Illnesses (Diabetes Mellitus, Sarcoidosis, Alcoholism, and Porphyrrias); *Stephanie Kielb, Laurie Bachrach, and Nancy Rios***

**Other Peripheral Neuropathies (Lumbosacral Zoster, Genitourinary Herpes, Tabes Dorsalis, Guillain-Barré Syndrome); *Vincent W.M. Tse and Anthony R. Stone***

**Peripheral Neuropathies of the Lower Urinary Tract Following Pelvic Surgery and Radiation Therapy; *Richard T. Kershen and Timothy B. Boone***

**Dementia and Lower Urinary Tract Dysfunction; *Ryuji Sakakibara***

**Pathologies of the Basal Ganglia, such as Parkinson's and Huntington's Diseases; *Teruyuki Ogawa, Satoshi Seki, Naoki Yoshimura, and Osamu Nishizawa***

**Urinary Dysfunction in Multiple System Atrophy; *Ryuji Sakakibara, Tatsuya Yamamoto, Tomoyuki Uchiyama, and Fuyuki Tateno***

**Multiple Sclerosis; *Hari S.G.R. Tunuguntla, Line Leboeuf, Jaspreet S. Parihar, and Angelo E. Gousse***

**Other Diseases (Transverse Myelitis, Tropical Spastic Paraparesis, Progressive Multifocal Leukoencephalopathy, Lyme's Disease); *Tomáš Hanuš***

**Cerebrovascular Accidents, Intracranial Tumors, and Urologic Consequences; *David J. Osborn, W. Stuart Reynolds, and Roger Dmochowski***

**Intervertebral Disk Prolapse; *Patrick J. Shenot and M. Louis Moy***

**Cauda Equina Injury; *Patrick J. Shenot and M. Louis Moy***

**Tumors of the Spinal Cord; *Homero Bruschini, J. Pindaro P. Plese, and Miguel Srougi***

**Tethered Cord Syndrome; *Shokei Yamada, Brian S. Yamada, and Daniel J. Won***

**Spinal Cord Injury and Cerebral Trauma; *Jerzy B. Gajewski***

**Cerebral Palsy, Cerebellar Ataxia, AIDS, Phacomatosis, Neuromuscular Disorders, and Epilepsy; *Christopher Kobylecki, Ling K. Lee, and Mark W. Kellett***

**Syringomyelia and Lower Urinary Tract Dysfunction; *Marc Le Fort, Jean-Jacques Labat, and Brigitte Perrouin-Verbe***

### ***EVALUATION OF NEUROGENIC BLADDER DYSFUNCTION***

**Clinical Evaluation: History and Physical Examination; *Chasta Bacsu and Gary E. Lemack***

**The Voiding Diary; *Matthew Young and Eric S. Rovner***

**The Pad-Weighing Test; *Matthew Young and Eric S. Rovner***

**Endoscopic Evaluation of Neurogenic Bladder; *Romain Caremel, Saad Aldousari, and Jacques Corcos***

**Imaging Techniques in the Evaluation of Neurogenic Bladder Dysfunction; *John Stoffel***

**Evaluation of Neurogenic Lower Urinary Tract Dysfunction: Basic Urodynamics; *Benjamin M. Brucker, Christopher E. Kelly, and Victor W. Nitti***

**Advanced Urodynamics: Toward Clinical Useful Neuroimaging in Urology; *Bertil F.M. Blok***

**Normal Urodynamic Parameters in Children; *Diego Barrieras and Orchidée Djahangirian***

**Urodynamics in Infants and Children; *Kate Abrahamsson, Gundela Holmdahl, and Ulla Sillén***

**Normal Urodynamic Parameters in Adults; *Romain Caremel and Jacques Corcos***

**Electrophysiological Evaluation: Basic Principles and Clinical Applications; *John P. Lavelle***

**Practical Guide to Diagnosis and Follow-Up of Patients with Neurogenic Bladder Dysfunction; *Jacques Corcos***

### ***CLASSIFICATION***

**Classification of Lower Urinary Tract Dysfunction; *Anne M. Suskind and J. Quentin Clemens***

### ***TREATMENT***

**Conservative Treatment; *Jean-Jacques Wyndaele***

**Management of Neurogenic Bladder with Suprapubic Cystostomy; *Romain Caremel, Andrew Feifer, and Jacques Corcos***

**Systemic and Intrathecal Pharmacologic Treatment; *Shachar Aharony and Jacques Corcos***

**Intravesical Pharmacologic Treatment for Neurogenic Detrusor Overactivity; *Christopher P. Smith***

**Management of Autonomic Dysreflexia; *Romain Caremel, Guy Brault, and Jacques Corcos***

**Electrical Stimulation for Bladder Management; *Dennis Bourbeau, Bastian Amend, and Karl-Dietrich Sievert***

**Surgery to Improve Reservoir Function; *Manfred Stöhrer and Jürgen Pannek***

**Surgery to Improve Bladder Outlet Function; *Jack C. Hou and Philippe E. Zimmern***

**Urinary Diversion; *Sender Herschorn and Greg G. Bailly***

**The Trans-Appendicular Continent Cystostomy Technique (Mitrofanoff Principle);  
*Bernard Boillot, Jacques Corcos, and Paul Mitrofanoff***

**Tissue Engineering and Cell Therapies for Neurogenic Bladder Augmentation and Urinary  
Continence Restoration; *René Yiou***

**Restoration of Complete Bladder Function by Neurostimulation; *Michael Craggs and  
Sarah Knight***

**Neuroprotection and Repair After Spinal Cord Injury; *Daniel Yavin and Steven Casha***

### ***SPECIAL CONSIDERATIONS ON MENINGO- MYELOCELE***

**Neural Tube Defects: Etiology, Prevention, and Prenatal Diagnosis; *Atsuo Kondo, Shinji  
Katsuragi, and Osamu Kamihira***

**Initial Management of Meningomyelocele Children; *Stuart B. Bauer***

**Intravesical Electrical Stimulation in Newborns, Infants, and Children; *Sang Won Han,  
Young Jae Im, and Eun Kyoung Choi***

**Fecal Incontinence in the Neurogenic Bladder Patient; *Jennifer H. Yang, Nima Harandi,  
Paula J. Wagner, and Anthony R. Stone***

**Adult Myelomeningocele; *Paul W. Veenboer and J.L.H. Ruud Bosch***

### ***SYNTHESIS OF TREATMENT***

**Treatment Alternatives for Different Types of Neurogenic Bladder Dysfunction in  
Children; *Roman Jednak and Joao Luiz Pippi Salle***

**An Overview of Treatment Alternatives for Different types of Neurogenic Bladder  
Dysfunction in Adults; *Jacques Corcos and David Ginsberg***

### ***COMPLICATIONS***

**Complications Related to Neurogenic Bladder Dysfunction. I: Infection, Lithiasis, and  
Neoplasia; *Gamal Ghoniem***

**Complications Related to Neurogenic Bladder Dysfunction II: Vesicoureteral Reflux and  
Renal Insufficiency; *Claire C. Yang and Brandon M. Haynes***

**Benign Prostatic Hyperplasia and Lower Urinary Tract Symptoms in Men with  
Neurogenic Bladder; *Jeffrey Thavaseelan and Akhlil Hamid***

### ***SEXUAL DYSFUNCTION IN NEUROLOGIC DISORDERS***

**Pathophysiology of Male Sexual Dysfunction After Spinal Cord Injury;  
*Pierre Denys and Clement Chehensse***

**Sexual Consequences of Multiple Sclerosis and Other Central Nervous System Disorders;**  
*Maarten Albersen and Dirk De Ridder*

**Treatment Modalities for Erectile Dysfunction in Neurological Patients;** *Reinier-Jacques Opsomer*

**Fertility Issues In Men With Spinal Cord Injury;** *Jeanne Perrin, Blandine Courbière, Vincent Achard, and Catherine Metzler-Guillemain*

**Pregnancy in Spinal Cord Injury;** *Carlotte Kiekens*

***PROGNOSIS AND FOLLOW-UP***

**Evolution and Follow-Up of Lower Urinary Tract Dysfunction in Spinal Cord-Injured Patients;** *Marc Le Fort, Marie-Aimée Perrouin-Verbe, and Jean-Jacques Labat*

**Neurogenic Bladder Surveillance In Children;** *Steve S. Kim*

***REPORTS AND GUIDELINES***

**Reports and Guidelines in Relation to Neurogenic Bladder Dysfunction: A Selection;**  
*Ornella Lam Van Ba and Jacques Corcos*