

Urologia Internationalis

Founded 1955 by G. Peter A. Narath and Heinrich Heusser
Continued 1968–1987 by G. Mayor

Editor

D. Hauri, Zürich

Assistant Editors

R. Ackermann, Düsseldorf
Y. Aso, Tokyo
G. Bartsch, Innsbruck
F.M.J. Debruyne, Nijmegen
P. Graber, Genève
F. Schröder, Rotterdam

Editorial Board

K.H. Bichler, Tübingen
F. Eisenberger, Stuttgart
H. Frohmüller, Würzburg
R. Hartung, München
R. Hohenfellner, Mainz
H. Klosterhalfen, Hamburg
W. Lutzeyer, Aachen
S. Orikasa, Sendai
T. Sonoda, Osaka
A. Steg, Paris
E. Zingg, Bern

Scientific Board

Anatomy: P. Groscurth, Zürich
Andrology: K. Bandhauer, St. Gallen;
C. Bollack, Strasbourg;
W. Weidner, Giessen
Clinical Chemistry: R. Asper, Zürich
Gynecology: S.L. Stanton, London
Imaging Technics: U. Mödder, Düsseldorf
Immunology: J.R. Kalden, Erlangen;
R. Zinkernagel, Zürich
Laser in Urology: A. Hofstetter, München
Lithiasis: W.G. Robertson, Riyadh;
O. Schmucki, Luzern
Microbiology: F. Kayser, Zürich
Nephrology: Ph. Jaeger, Bern
Neurourology and Urodynamics:
J. Nordling, Herlev; A. Rossier, Genf;
E.A. Tanagho, San Francisco, Calif.
Oncology: G. Jakse, Aachen;
D. Oliver, London; A. Rübber, Essen;
C.G. Schmidt, Essen
Pathology: A. Elbadawi, New York, N.Y.;
M.J. Mihatsch, Basel; Ph. Heitz, Zürich
Pediatric Surgery:
H. Mildenerberger, Hannover
Physiology: P. Deetjen, Innsbruck
Radiotherapy:
M. Bagshaw, Stanford, Calif.
Renal Transplantation:
K. Dreikorn, Bremen
Virology: H. zur Hausen, Heidelberg

KARGER

.....
S. Karger
Medical and Scientific Publishers
Basel · Freiburg · Paris · London
New York · New Delhi · Bangkok
Singapore · Tokyo · Sydney

.....
Drug Dosage
The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

.....
All rights reserved.
No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see 'Information for Readers and Subscribers').

© Copyright 1994 by S. Karger AG,
P.O. Box, CH-4009 Basel (Switzerland)
Printed in Switzerland on acid-free paper by
Thür AG Offsetdruck, Pratteln

No. 1

Editorial

- Is There a Change in the Treatment of Benign Prostatic Hyperplasia? 1
Altwein, J.E.; Almer, F.

Original Papers

- Plasminogen Activators and Plasminogen Activator Inhibitor 1 in Urinary Tract Cancer 4
Bashar, H.; Urano, T.; Fukuta, K.; Pietraszek, M.H.; Hata, M.; Suzuki, K.; Kawabe, K.; Takada, Y.; Takada, A.
- Epidermal Growth Factor Concentrations in Seminal Plasma from Patients with Hypogonadism – Changes after Hormone Replacement 9
Fuse, H.; Okumura, M.; Sakamoto, M.; Katayama, T.
- Glycine Loading and Urinary Oxalate Excretion 14
Hahn, R.G.; Sikk, M.
- Extracorporeal Shock Wave Lithotripsy Using the Dornier MPL 9000 Lithotripter 17
Ohshima, S.; Ono, Y.; Sahashi, M.; Matsuura, O.; Takeuchi, N.; Tanaka, K.; Yamada, S.; Kamihira, O.; Kuriki, O.; Mizutani, K.; Kurokawa, T.; Hashimoto, Y.
- Incidence of Pouch Stones and Risk Factors for Urolithiasis in Patients with Continent Urinary Diversion or Neobladder Using Intestine 21
Takeda, M.; Katayama, Y.; Takahashi, H.; Go, H.; Tsutsui, T.; Tanikawa, T.; Nishiyama, T.; Komeyama, T.; Sato, S.
- Behavior of Different Suture Materials in the Urinary Bladder of the Rabbit with Special Reference to Wound Healing, Epithelization and Crystallization 26
Hanke, P.R.; Timm, P.; Falk, G.; Kramer, W.
- HLA Antigens in Peyronie's Disease 34
Rompel, R.; Mueller-Eckhardt, G.; Schroeder-Printzen, I.; Weidner, W.

Case Reports

- Spontaneous Rupture of the Urinary Bladder Complicated by Extensive Fascitis: The Importance of a High Index of Suspicion 38
Carmon, M.; Nissan, A.; Pappo, I.; Perlberg, S.; Seror, D.; Haskel, Y.
- Primary Repair of Colorenocutaneous Fistula in Patients with Genitourinary Tuberculosis 41
Hemal, A.K.; Gupta, N.P.; Wadhwa, S.N.; Songra, M.C.; Batura, D.; Bhuyan, U.N.
- Seminal Vesicle Abscess: Two Case Reports and a Review of the Literature 45
Gutiérrez, R.; Carrere, W.; Llopis, J.; Romero, J.A.; Umbert, B.; Carretero, P.
- Carcinoma of the Prostate in Young Patients: A Report of Two Cases 48
Jadeja, N.A.; Dogra, P.N.; Gupta, N.P.
- Malignant Priapism in a Patient with Metastatic Prostate Adenocarcinoma 52
Schroeder-Printzen, I.; Vosschenrich, R.; Weidner, W.; Ringert, R.H.
- Youssef's Syndrome: An Appraisal of Hormonal Treatment 55
Hemal, A.K.; Wadhwa, S.N.; Kriplani, A.; Hemal, U.
- Extrarenal Retroperitoneal Angiomyolipoma 58
Angulo, J.C.; López, J.I.; Carnicero, J.A.; Flores, N.

No. 2

Original Papers

- A New Theory of Micturition and Urinary Continence Based on Histomorphological Studies. I. The Musculus detrusor vesicae: Occlusive Function or Support of Micturition? 61
Dorschner, W.; Stolzenburg, J.-U.; Leutert, G.
- Utilization of Cryopreserved Semen in Tumor Patients 65
Krause, W.; Brake, A.
- Trial with Bacillus Calmette-Guérin and Epirubicin Combination in the Prophylaxis of Superficial Bladder Cancer 69
Erol, A.; Özgür, S.; Başar, M.; Çetin, S.
- Long-Term Follow-Up after Clam Ileocystoplasty. Complications and Results Including Some Quality-of-Life Parameters for 32 Patients Treated for Neuropathic and Nonneuropathic Bladder Disease 73
Geertsens, U.; Mommsen, S.
- Urological Complications of Advanced Lymphoma 77
Hemal, A.K.; Sharma, S.K.
- Renin Secretion and Captopril Stimulation in Hypertensive Renal Transplant Recipients 82
Kutkuhn, B.; Hollenbeck, M.; Westhoff, A.; Ivens, K.; Heering, P.; Grabensee, B.
- Influence of Nifedipine on Stone Formation and Renal Function in Cholesterol-Induced Nephrolithiasis in Rats 87
Strohmaier, W.L.; Witte, B.; Nelde, H.J.
- Study of Urinary Calcium Excretion after Oral Calcium Load in Stone Formers, Their Spouses and First-Degree Blood Relatives 93
Kaul, P.; Sidhu, H.; Vaidyanathan, S.; Thind, S.K.; Nath, R.
- Extracorporeal Shock Wave Lithotripsy for Ureteral Stones Using the Dornier Lithotripter MFL5000 98
Fujimoto, N.; Kyo, M.; Ichikawa, Y.; Nagano, S.
- Extracorporeal Shock Wave Lithotripsy in 1,178 Ureteric Calculi Patients – Lessons Learnt 102
Bhatia, V.; Biyani, C.S.

Case Reports

- Production of Anti-Glomerular Basement Membrane Antibody after Extracorporeal Shock Wave Lithotripsy 106
Umekawa, T.; Kohri, K.; Yoshioka, K.; Iguchi, M.; Kurita, T.
- Urosepsis and Ureteric Strictures following Extracorporeal Shock Wave Lithotripsy 109
Dogra, P.N.; Jadeja, N.A.
- Spontaneous Bladder Rupture following Enterocystoplasty Can Be Treated Conservatively 113
Wolff, J.M.; Boeckmann, W.; Jakse, G.
- Bladder Carcinoma Producing Granulocyte Colony-Stimulating Factor 115
Otani, N.; Kumamoto, Y.; Tsukamoto, T.; Satoh, T.; Sakauchi, F.
- Pericentric Inversion of Chromosome 9 Associated with Sertoli-Cell-Only Tubule 118
Tomaru, M.; Sasagawa, I.; Ishigooka, M.; Hashimoto, T.; Izumiya, K.; Nakada, T.

No. 3**Original Papers**

Light Microscopical Immunohistochemical Study on Parathyroid Adenoma in Primary Hyperparathyroidism	121
Oka, T.; Onoe, K.; Matsumiya, K.; Takaha, M.; Yoshioka, T.; Koide, T.; Sonoda, T.; Kimura, M.; Sakurai, M.	
Urinary Acidification and Urinary Excretion of Calcium and Citrate in Women with Bilateral Medullary Sponge Kidney	126
Osther, P.J.; Mathiasen, H.; Hansen, A.B.; Nissen, H.M.	
Are Auxiliary Methods Necessary prior to ESWL in Patients with a Solitary Kidney?	131
Heimbach, D.; Wirth, M.; Hofmockel, G.; Frohmüller, H.	
Ureteropelvic Junction Obstruction: Relation of Etiology and Age at Surgical Repair to Clinical Outcome	135
Raviv, G.; Leibovitch, I.; Shenfeld, O.; Mor, Y.; Jonas, P.; Goldwasser, B.	
Immunocytochemically Demonstrated Expression of Epithelial Membrane Antigen and Carcinoembryonic Antigen by Exfoliated Urinary Cells in Patients with Bladder Cancer	140
Tanaka, K.; Takashi, M.; Miyake, K.; Koshikawa, T.	
DNA Aneuploidy in G1-Urothelial Carcinomas of the Urinary Bladder	145
Borchers, H.; Planz, B.; Jakse, G.; Böcking, A.	
Complications in a Personal Series of One Hundred and Five Radical Cystectomies: Specific Problems in a Developing Country	151
Srinivas, V.; Nagapurkar, N.; Choudary, R.; Alvani, A.; Metha, H.; Phadke, A.G.	
A New Theory of Micturition and Urinary Continence Based on Histomorphological Studies. 2. The Musculus sphincter vesicae: Continence or Sexual Function?	154
Dorschner, W.; Stolzenburg, J.-U.; Dieterich, F.	
Prognostic Value of Urokinase Plasminogen Activator for Prostatic Carcinoma	159
Lehmann, K.; Plas, E.; Gautschi, K.; Hauri, D.	
Incidence of Antisperm Antibodies in Patients with Carcinoma of the Testis and in Subfertile Men with Normogonadotropic Oligoasthenoteratozoospermia	162
Höbarth, K.; Klingler, H.C.; Maier, U.; Kollaritsch, H.	

Case Reports

Klinefelter Syndrome Associated with 13/14 Translocation Abnormality 46.XXY,t(13q;14q)	166
Gül, D.; Şayli, B.S.	
Bilateral Ovarian Metastasis from Left Renal Cell Carcinoma	169
Adachi, Y.; Sasagawa, I.; Nakada, T.; Saitoh, M.; Mitobe, K.; Ohta, T.; Tanaka, M.	
Adenocarcinoma of the Renal Pelvis. A Report of Two Cases	172
Nogales, F.F.; Andujar, M.; Beltran, A.L.; Martinez, J.L.; Zuluaga, A.	
Emphysematous Pyelonephritis, Ureteritis, and Cystitis in a Diabetic Patient	176
Egawa, S.; Utsunomiya, T.; Uchida, T.; Mashimo, S.; Koshiba, K.	
Spontaneous Rupture of Bladder in Pregnancy. A Case Report	179
Shroff, S.; Lee, J.O.; Townsend, A.R.	

No. 4**Original Papers**

Clinical and Radiological Aspects of Infiltrating Transitional Cell Carcinoma of the Kidney	181
Igarashi, T.; Muakami, S.; Shichijo, Y.; Matsuzaki, O.; Isaka, S.; Shimazaki, J.	
A New Theory of Micturition and Urinary Continence Based on Histomorphological Studies. 3. The Two Parts of the Musculus sphincter urethrae: Physiological Importance for Continence in Rest and Stress	185
Dorschner, W.; Stolzenburg, J.-U.	
A New Theory of Micturition and Urinary Continence Based on Histomorphological Studies. 4. The Musculus dilator urethrae: Force of Micturition	189
Dorschner, W.; Stolzenburg, J.-U.; Rassler, J.	
Simultaneous Measurement of Cystometry and Diuresis Renography during Full and Empty Bladder in Neurogenic Bladder Patients: A Preliminary Report	194
Takeda, M.; Tsutsui, T.; Takahashi, H.; Hatano, A.; Komeyama, T.; Tamaki, M.; Koizumi, T.; Sato, S.	
Effects of Prostaglandins E ₁ , E ₂ and F _{2a} on Contractility and cAMP and cGMP Contents in Lower Urinary Tract Smooth Muscle	200
Morita, T.; Ando, M.; Kihara, K.; Kitahara, S.; Ishizaka, K.; Matsumura, T.; Oshima, H.	
Diagnostic Problems of Urine Cytology on Initial Follow-Up after Intravesical Immunotherapy with Calmette-Guérin Bacillus for Superficial Bladder Cancer	204
Mack, D.; Frick, J.	
Detection of Human Papillomavirus Type 16 DNA Sequences in Paraffin-Embedded Tissues from the Female Urinary Tract	208
Aglianò, A.M.; Gazzaniga, P.; Cervigni, M.; Gradilone, A.; Napolitano, M.; Pastore, L.L.; Manzari, V.; Frati, L.; Vecchione, A.	
Study of Estramustine Binding Protein: Its Relationship to Androgen Dependency and Histological Differentiation in Human Prostatic Carcinoma Tissue	213
Shiina, H.; Sumi, H.; Ishibe, T.; Usui, T.	

Case Reports

Myelolipoma of the Adrenal Gland Presenting with Dyspepsia and Epigastric Pain	217
Muraro, G.B.; Melone, F.; Dami, A.; Farina, U.; Colagrande, S.	
Youssef's Syndrome: Preservation of Uterine Function with Subsequent Successful Pregnancy following Surgical Repair	220
Issa, M.; Schmid, H.-P.; Staney, T.A.	
Secondary Signet Ring Cell Tumour of the Prostate	223
Plancke, H.R.F.; Delaere, K.P.J.; Theunissen, P.	
Advanced Prostatic Carcinoma in a 19-Year-Old Male	225
Jindal, P.K.; Hota, D.; Prasad, K.V.R.; Nijhawan, R.; Vaidyanathan, S.	
Ultrasonographic Findings of Epididymal Sarcoidosis	228
Suzuki, Y.; Koike, H.; Tamura, G.; Fujioka, T.; Kubo, T.; Satodate, R.	
Paratesticular Myxoma	231
Yoshimura, K.; Inoue, H.; Koide, T.; Ohnishi, S.	
Announcement	233
Author Index	234
Subject Index	235

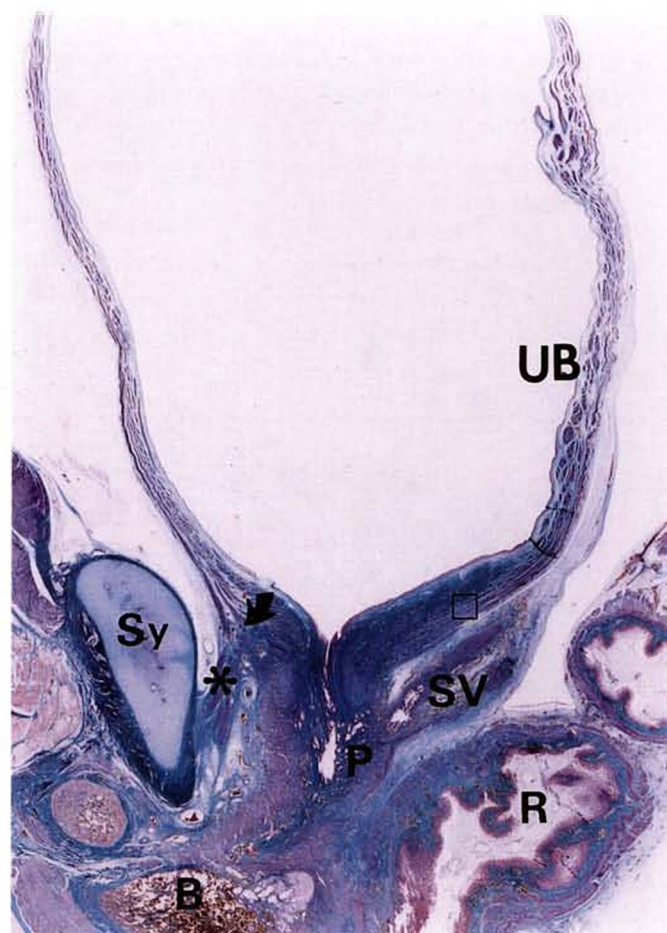


Fig. 1. Bladder neck: sagittal section, newborn, male, 10 μ m, Crossmon, $\times$ 1.6. UB = Urinary bladder; B = bulb of penis; P = prostate; Sy = symphysis; R = rectum; SV = seminal vesicle. The nodus vesicae is indicated by the arrowhead, part of collar vesicae by the square, and the muscoli pubovesicales by the asterisk.

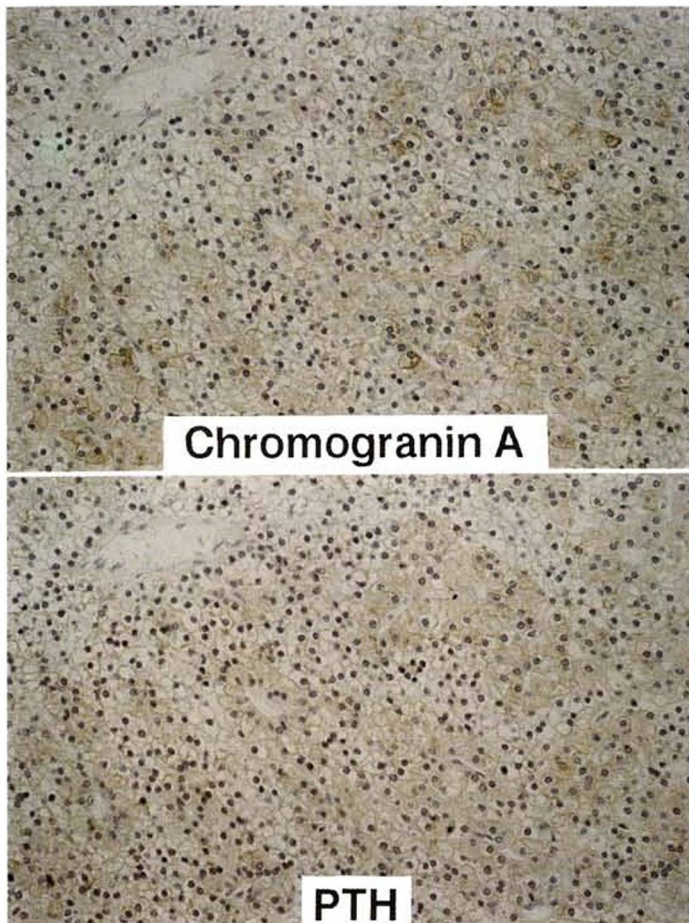


Fig. 2. Case 11, having identically strong reactions to all three different stains, shows that the positive granules for three different stains are generally localized beneath the cell membranes around the acinar or tubular lumens.

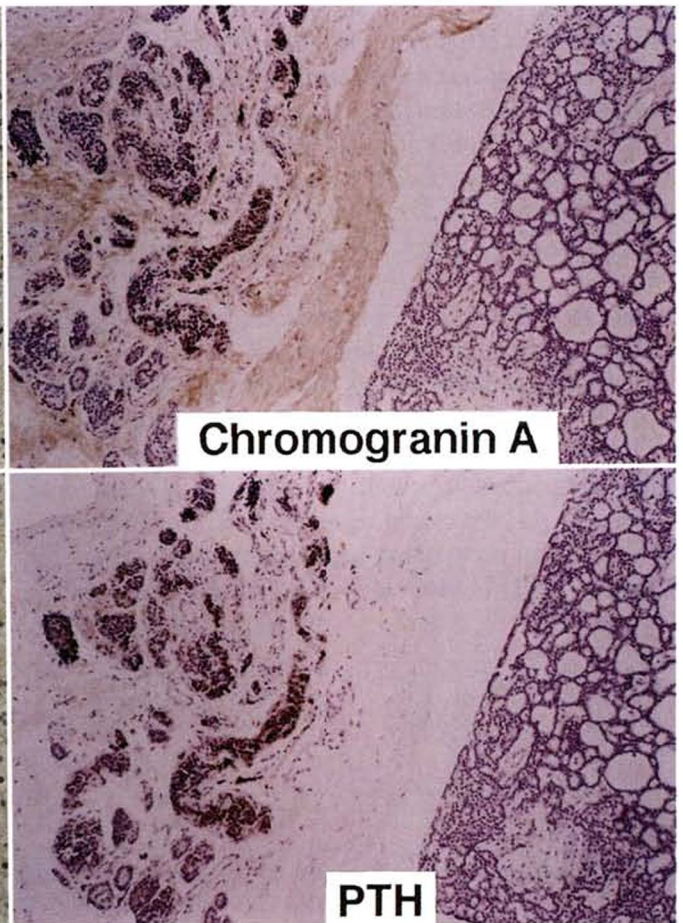


Fig. 3. Normal parathyroid cells in the neoplastic parathyroid gland show much stronger reactions to PTH and chromogranin A than the neoplastic cells.

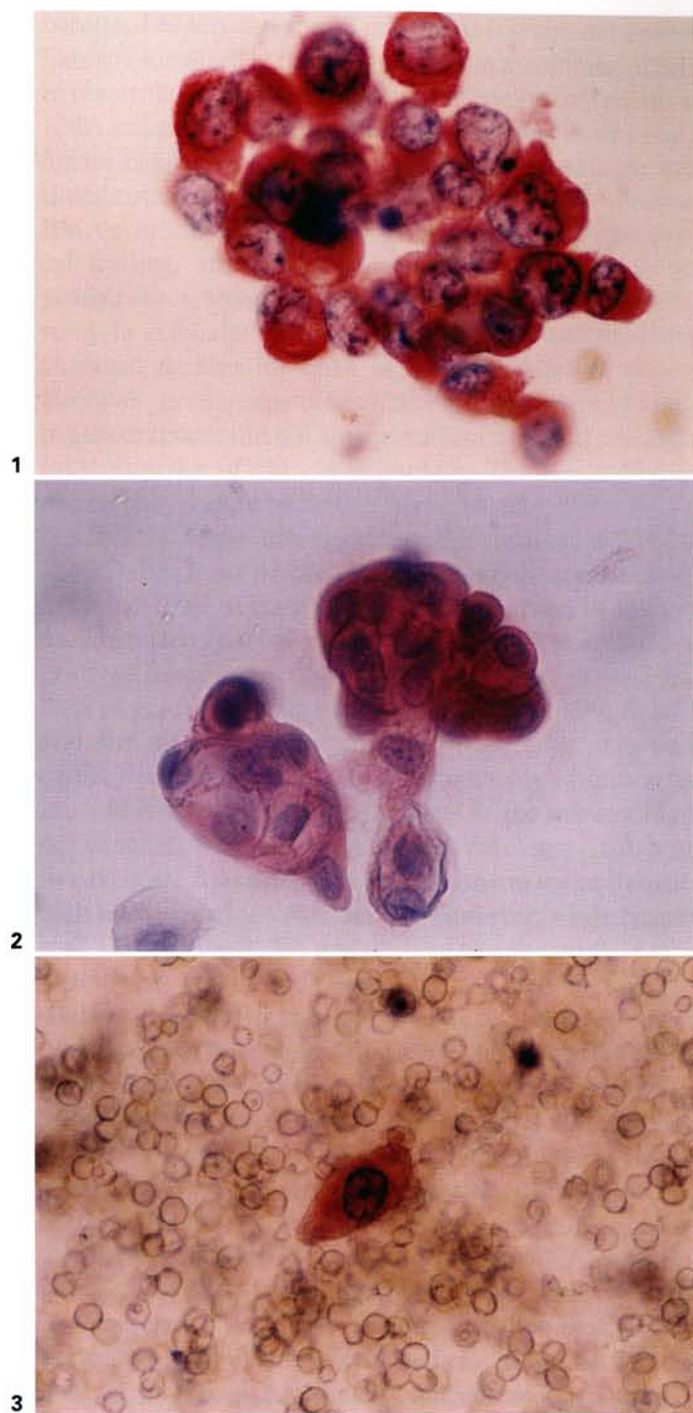


Fig. 1, 2. Positive EMA (1) and CEA (2) staining cells from a patient with bladder cancer.

Fig. 3. Positive EMA staining in a case graded as suspicious by conventional cytology.

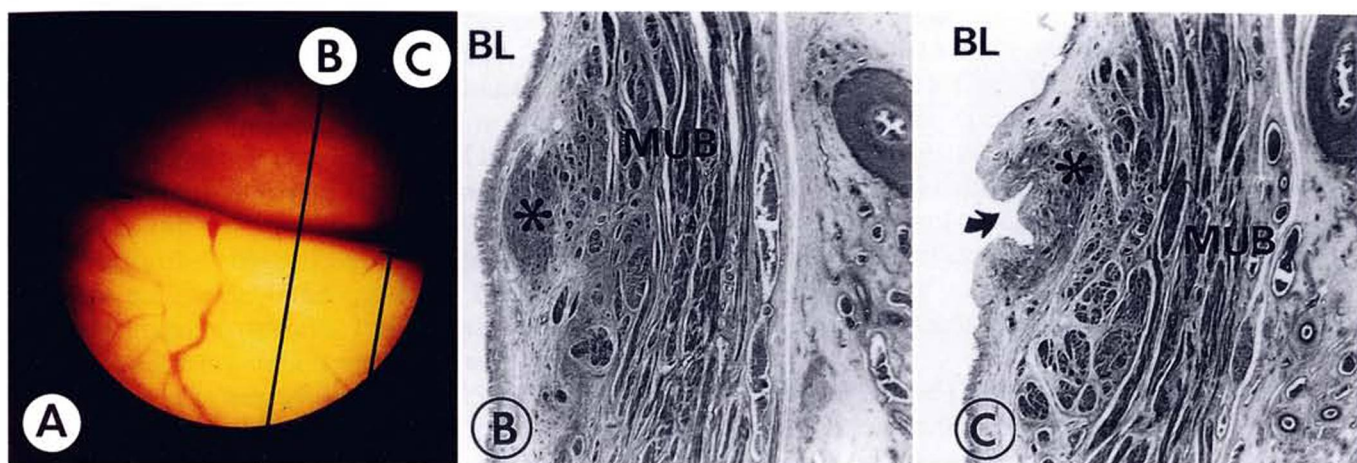


Fig. 1. Musculus interuretericus (asterisks). **A** Endophoto – plica interureterica. View from the internal urethral orifice in direction of the interureteric ridge. **B** and **C** indicate sagittal sections of a newborn male, 10 μ m, Chrossmon, $\times 13$. BL = Lumen of the urinary bladder; MUB = musculature of the urinary bladder. The arrow in **C** marks the orifice of ureter. The musculature of the ureter does not end in the orifice of ureter but runs directly to the opposite site (**B**). This special course ends in the piling up of a mucosal fold, the plica interureterica (**A**).

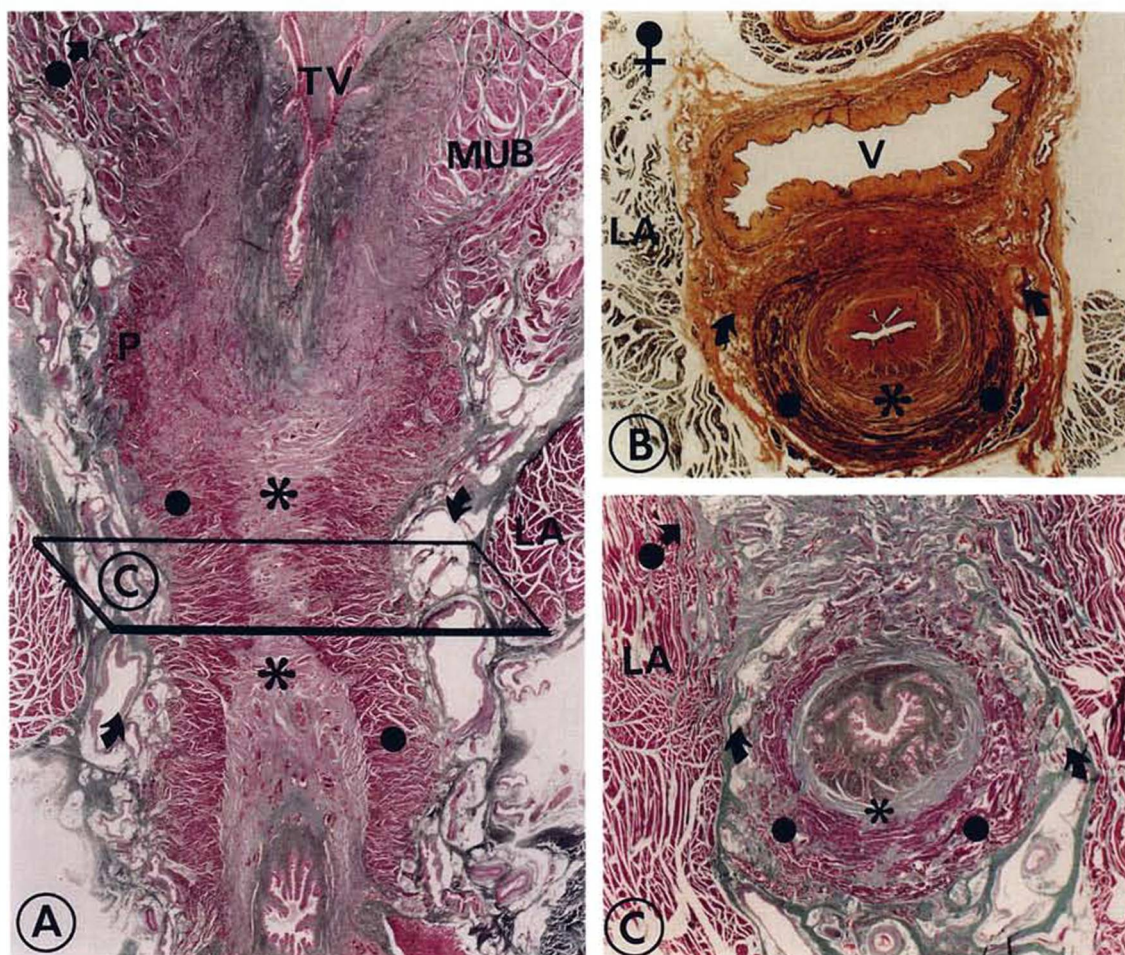


Fig. 1. Two parts of the musculus sphincter urethrae: musculus sphincter urethrae transversostriatus (●) and musculus sphincter urethrae glaber (*). MUB = Muscle system of urinary bladder; P = prostate; TV = trigonum vesicae; LA = musculus levator ani; V = vagina. **A** Frontal section, 7 years, male, 10 μ m, Chrossmon, $\times$ 3.5. **B** Transversal section, 4 years, female, 10 μ m, silver stain according to Pap, $\times$ 6. **C** Transversal section, 32 years, male, 10 μ m, Chrossmon, $\times$ 4. The musculus sphincter urethrae is completely separated by connective tissue from the surrounding pelvic floor muscles (see arrows). A musculus transversus perinei profundus does not exist.

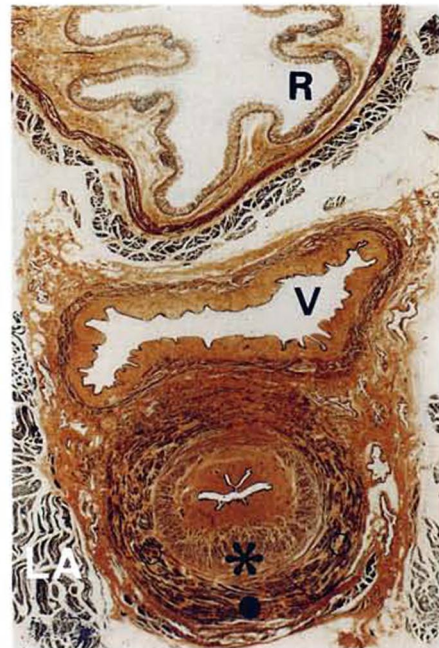


Fig. 1. Ventral longitudinal urethral muscle system (*). Transversal section of the distal third of the urethra (4 years, female; 10 μ m). R = Rectum; V = vagina; LA = musculus levator ani; ● = musculus sphincter urethrae transversostriatus. (The musculus sphincter urethrae glaber is only visible in the middle third of the urethra. In females, the dorsal longitudinal urethral muscle system runs outside the actual urethral complex.) Silver stain according to Pap. $\times$ 6.