

Saul Boyarsky, M.D., J.D. (F.A.C.S., F.C.L.M., F.A.A.F. S., F. A. A. G.U.S.)

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Personal History: Born July 22, 1923, Burlington, Vermont. Married June 17, 1945, to Rose Eisman.

Education

Undergraduate: University of Vermont, College of Arts and Sciences, 1940-1943,
B.S. Magna Cum Laude.

Medical School: University of Vermont, College of Medicine, 1943-1946,
M.D. Cum Laude.

Fellowships: University of Vermont, College of Medicine
Departments of Anesthesia and Surgery, 1947-1948.
New York University Medical College,
Physiology, with Dr. Homer Smith, 1954-1956.

Internship: Medical Service, The Johns Hopkins Hospital,
Baltimore, Maryland, April 1946-July 1947.

Residency: Resident in Urology, Duke Hospital,
Durham, North Carolina, July 1950-July, 1954.

Law School: J.D., Washington University School of Law,
St. Louis, Missouri, May 22, 1981.

Honors and Awards

College of Arts & Sciences
University of Vermont: B.S., Magna Cum Laude, 1944
Phi Beta Kappa
Graduation Prize for 1st standing in class

College of Medicine
University of Vermont: M.D., Cum Laude, 1946
Graduation Prize for 2nd standing in class

1970 William P. Burpeau Award for Service to Urology

1982 Alpha Omega Alpha, University of Vermont College of Medicine

1983 Award for pioneering work in Urodynamics, as founder and first
president of the Urodynamics Society at the 2nd Joint International
Meeting of the Urodynamics Society and International Continence

Society; Aachen, Germany.

- 1986 Distinguished Academic Achievement Award
University of Vermont Medical Alumni Association
- 1990 Missouri House of Representatives, Resolution #236.
- 1993 Physician's Recognition Award 5/1/93-6/1/96
- 1994 Cash award and honorable mention for presentation at 10th World
Congress on Medical Law, Jerusalem, Israel 8/28-9/1/94.

MILITARY SERVICE

1st Lt. and Captain, Medical Corps, A.U.S., 1948-1950, including:
Medical Field Service School, Fort Sam Houston, Texas.
Dispensary Officer, Camp Kilmer, New Jersey.
General Surgery & Orthopedic Ward Officer, 15th Evacuation
Hospital, Nurnberg, Germany.
Acting Chief of Surgery, Station Hospital, Wurzburg, Germany,
Temporary Duty.

HOSPITAL APPOINTMENTS

- Assistant Attending Urologist
Dec. 1954 - July 1956
Bellevue Hospital, New York, New York
- Assisting Attending Urologist
April 1956 - 1963
New York University Hospital, New York, New York
- Assistant Chief of Urology
July 1956 - Sept., 1956
Bronx Veterans Administration Hospital, Bronx, New York
- Associate Attending Urologist
July 1956 - 1962
Bronx Municipal Hospital Center, Bronx, New York
- Visiting Urologist
July 1962 - 1963
Bronx Municipal Center, Bronx, New York
- Adjunct Urologist
1960 - 1963
New Rochelle Hospital, New Rochelle, New York
- Attending Urologist
1960 - 1963
Bronx Veterans Administration Hospital, Bronx, New York
- Urologist
1963 - 1970
Duke Hospital, Durham, North Carolina

Chief of Urology 1963 - 1968	Veterans Administration Hospital, Durham, North Carolina
Consultant in Urology 1963 - 1970 1963 - 1970 1969 - 1970	Watts Hospital, Durham, North Carolina Lincoln Hospital, Durham, North Carolina Veterans Administration Hospital, Oteen, North Carolina
Urologic Surgeon-in-Chief St. Louis, Missouri 1970 - 1973	Barnes Hospital and Washington University Teaching Hospitals,
Urologist 1970 - 1984 1970 - 1973 1970 - 1984 1970 - 1984	Veterans Administration Hospital, St. Louis, Missouri St. Louis City Hospital, St. Louis, Missouri St. Louis County Hospital, St. Louis, Missouri The Jewish Hospital of St. Louis, St. Louis, Missouri
Urologist 1970 - 1989 1992	Barnes Hospital, St. Louis, Missouri Jewish Hospital, St. Louis, Missouri Children's Hospital, St. Louis, Missouri St. Louis University, St. Louis, Missouri
Emeritus Urologist	Jewish Hospital, St. Louis, Missouri

UNIVERSITY APPOINTMENTS

Research Associate <i>honoris Causa</i>	Center for Jewish Studies, Duke University, 2006-present
Senior Research Associate	Kenan Institute for Ethics, Duke University, 2005-present
Clinical Professor of Urology Department of Surgery	St. Louis University School of Medicine, St. Louis, Missouri 1992 - 1999
Professor of Genitourinary Surgery	Washington University School of Medicine, St. Louis, Missouri 1970 - 1989
Head, Division of Genitourinary Surgery	Washington University School of Medicine, St. Louis, Missouri 1970 - 1973
Professor of Biomedical Engineering, Department of Mechanical and Aerospace Engineering	Washington University, St. Louis, Missouri 1970 - 1984

Associate Professor of Pharmacology	Washington University School of Medicine, St. Louis, Missouri 1970 to 1980
Professor of Urology, Assistant Professor of Physiology Director of Urologic Research	Duke University School of Medicine, Durham, North Carolina 1962 -1970
Chief of Urology	Durham VA Hospital 1963-1965
Director of Rehabilitation	Duke University Medical Center, Durham, North Carolina 1969 - 1970
Instructor in Physiology	New York University College of Medicine, New York, New York 1955 - 1956
Assistant and Associate Professor of Urology	Albert Einstein College of Medicine, New York, New York 1956 - 1963

MEDICAL SPECIALTY BOARDS AND FELLOWSHIPS

Diplomate	National Board of Medical Examiners	1947
Diplomate	American Board of Urology	1958
Fellow	American College of Surgeons	1958
Fellow	New York Academy of Sciences	1964 - 1975
Fellow	American College of Legal Medicine	1976
Delegate	Missouri State Medical Association	1988 - 1990
Fellow	American Academy of Forensic Sciences	1994
Fellow	American Association of GenitoUrinary Surgeons	1988

MEMBERSHIPS

American Association for Advancement of Science
 American Association of Clinical Urologists 1972
 American Association of Genitourinary Surgeons
 American College of Surgeons, Fellow
 American Medical Association
 American Physicians Fellowship, Inc.
 American Physiologic Society
 American Urological Association
 International Continence Society
 Missouri State Medical Association, Honor Member
 Missouri Urologic Society
 Pan American Medical Association
 St. Louis Metropolitan Medical Society, Life Member
 St. Louis Urological Society

Sigma Xi
 Societe Internationale D'Urologie
 Society for Urology and Engineering, Inc.
 Society of University Urologists
 Urodynamics Society--Honorary/Inactive
 American Association of University Professors
 American Fertility Society
 American Nephrology Society
 Andrology Society
 Biomedical Engineering Society
 Carolina Urological Society
 Society for Experimental Biology and Medicine

Legal: American Arbitration Association
 American Bar Association (98675188QW)
 American College of Legal Medicine
 Bar Association of Metropolitan St.Louis (4909)
 Defense Research Institute
 Missouri Bar Association (29362)
 Missouri Organization of Defense Lawyers
 National Health Lawyers Association (through 1986)

Medical-Legal and Forensic: American Academy of Forensic Sciences, Fellow
 American College of Legal Medicine, Fellow
 American Society of Law and Medicine
 St. Louis Association of Hospital Risk Managers
 Urology Lawyers Council, President and Founder
 Urodynamics Society

Fraternity: Phi Delta Epsilon Medical Fraternity

Listed in: American Men and Women of Science
 International Biographical Centre
 Marquis Who's Who in American Law
 Marquis Who's Who in the Midwest
 Marquis Who's Who in the World
 Martindale-Hubbell Law Directory
 National Forensic Center
 West's Legal Directoy Online
 Who's Who in Frontiers of Science and Technology

Private Practice in Urology: New Rochelle, New York, 1956-1963

MEDICAL LICENSURE

State of Missouri, R3829	1970
State of Vermont	1948

State of New Jersey	1949
State of North Carolina	1950
State of New York	1954
State of North Carolina	1963

LAW LICENSURE

Inactive, senior Missouri Bar MD R3829, 1983

PROFESSIONAL, COMMUNITY, CONSULTING, AND EDITORIAL POSITIONS

American Academy of Forensic Sciences - Secretary of Jurisprudence Section.
 American College of Legal Medicine - Chairman of Audit Committee.
 American College of Surgeons - Committee for the Forum on Fundamental Surgical Problems.
 American Urological Association, Inc. - Chairman, Biomedical Engineering Committee, 1975 to present.
 Diagnostic and Therapeutic Technology Assessment Reference Panel, American Medical Association.
 Editorial Advisory Board - *Courts, Health Science & the Law*.
 Editorial Advisory Board - *Insight into Courts*.
 Editorial Board - *Journal of Legal Medicine*, 1981 to 2003.
 Editorial Board - *Neurourology & Urodynamics*, 1982 to 1992.
 Editorial Consultant - *Urology*, 1996.
 Food and Drug Administration Department of Health, Education and Welfare
 -Member, Urology Panel of Center for Radiological Health and Medical Devices, 1985 to 1989.
 -Consultant, Gastroenterology and Urology Devices Panel and the Medical Devices Advisory
 Committee.
 Paraquad - Honorary Board, 1988 .
 St. Louis Conservatory and Schools for the Arts - Board of Directors, 1972 .
 St. Louis Metropolitan Medical Society - Medical/Legal Committee.
 Veterans Administration - Cooperative Study, Randomized Study of Cost Effectiveness of TURP for BPH,
 Chairman, Operations Committee, CSP #246.
 F4.11., 1980-1987.

American Association of Clinical Urologists, Inc. - Interprofessional Committee, 1978-1981.
 American Association of Medical Assistants St. Louis Chapter - Advisor, 1978-1981
 American College of Legal Medicine - Board of Governors, 1985-1987.
 -Chairman, Ad Hoc Legislative Committee, 1987.
 American College of Surgeons - Executive Committee of Medical Device Committee, 1983-1987.
 - Operating Room Environment Committee, 1973-1977.
 American Medical Association - Vietnam Medical School Project, Urology Consultant.
 American Urological Association, Inc. - Prize Essay Committee, 1971-1972.
 -Ad Hoc Committee on Male Reproduction, 1977-1978
 -Chairman , Biomedical Engineering Committee 15 years.
 American Society for Testing and Materials - Chairman, Task Force on Foley Catheter, f04.80.01.
 - Chairman, 1977-1980.
 - Urology Subcommittee.

Association for the Advancement of Medical Instrumentation, until 1988.

- Representative of American Urological Association.
- Co-chairman Government Relations and Public Policy Committee, 1985.
- Center for Population Research.
- National Institute of Child Health and Human Development.
- Contraceptive Research Evaluation Review Contract Committee.

Consultant in Urology - International Medical Society of Paraplegia.

Editorial Advisory Board - *Sexual Medicine Today*.

Editorial Board - *Archives of Andrology*.

Food and Drug Administration: Department of Health, Education and Welfare

- member, Advisory Committee, Cardiovascular and Renal Disorders, 1969 - 72.

Glaucoma Support Group - Organizer, 1985-1986.

Kidney Foundation of Eastern Missouri and Metro-East.

Medical Advisory Committee - Visiting Nurses Association, St. Louis.

Medical Society of the State of North Carolina - Committee on Physical and Vocational Rehabilitation.

Missouri Crippled Children's Service, Columbia, Missouri - consultant.

Missouri Organization for Defense Lawyers - Legislative Committee, 1986.

Multiple Sclerosis Society Advisory Committee - President's Commission 1973

- Committee on Research on the Etiology, Diagnosis, Natural

History, Prevention and Therapy of Multiple Sclerosis.

National Academy of Sciences - National Research Council.

- 1968 Program Committee member.
- Workshop: Hydrodynamics of the Bladder, 1969.
- Chairman, Ad Hoc Program Committee, 1969.
- Workshop on Hydrodynamics of the Ureter, 1970.

National Institute on Aging - Ad Hoc Consultant, 1982.

National Institutes of Health - Institute of Arthritis and Metabolic Diseases

- Chairman, Renal Disease and Urology Training Grants (1986), member 1964-68.

Paraquad - Board of Directors, 1985.

- Program Committee, 1985.
- Executive Committee, 1985.
- Vice-president Programs, 1986.

Paralyzed Veterans of America - Research Guidance Committee Chairman.

- Legislative Liaison Committee.
- Medical Advisory Board.

Regional Medical Program of North Carolina: Committee on Rehabilitation - Consultant.

St. Louis Conservatory and Schools for the Arts, St. Louis, Missouri

- Chairman, Academic Council 1972-1975.
- Vice-president, Board of Directors, 1982.
- Executive Committee, 1980-1987.

St. Louis Metropolitan Medical Society - Library Committee.

- Program Committee.
- Medical-legal Committee, Chairman 1985-1987.

St. Louis Urological Society - Chairman, Nominating Committee, 1983, 1988.

Southern Medical Association - Chairman, Urology Section, 1969.

The American Fertility Society - Urology Committee, 1972-1976.
United States Pharmacopeia Convention, Inc. - Chairman, Urology Panel, until 1987.
United States Public Health Service Chronic Disease Control Program - Consultant.
Urodynamics Society - Founder and past President.
Veterans Administration Central Office - Spinal Cord Injury Service consultant, to 1970.

Publications:

Books:

1. Boyarsky, S., (Ed.), *The Neurogenic Bladder*, Baltimore, Md., Williams and Wilkins 1967 (Mar.).
2. Hinman, F., Jr., with Boyarsky, S., Zinner, N. and Pierce, J., Jr., *Hydrodynamics of Micturition*, C.C. Thomas Co., Springfield, Ill., 1971.
3. Boyarsky, S., Gottschalk, C.W., Tanagho, E.A., and Zimskind, P.D., *Urodynamics: Hydrodynamics of the Ureter and Renal Pelvis*, Academic Press, 1971.
4. Boyarsky, S., And Labay, P., *Ureteral Dynamics*, Baltimore, Md., Williams and Wilkins, 1972.
5. Boyarsky, S., Labay, P., Hanick, P., Abramson, A. and Boyarsky, R.E., *The Care of the Neurogenic Bladder Patient*, Little, Brown and Company, 1979.
6. Boyarsky, S., Polakoski, K., *Goals in Male Reproductive Research*, London, England, Pergamon Press, 1981.
7. Hinman, Jr. Frank, ed., Boyarsky, Saul, Associate Editor, *Benign Prostatic Hypertrophy*, Springer-Verlag, New York, 1983.

Unpublished

1.. There Are No Cripples. An optimistic plea for holistic care and rehabilitation of Spinal Cord Injured Patients 1975 circa

Articles:

1. Smith, H.C. And Boyarsky, S., "The Relationship Between Physique Reaction Time", *Character and Personality*, 1943, 12:46-53.
2. Boyarsky, S., "The Anoxic Electrocardiogram as a Test for Early Coronary Sclerosis", *J. Maine Med. Assoc.*, 1948, 9:251-254.
3. Boyarsky, S., Burnett, J.M., and Barker, W.H., "Renal Failure in Embolic Glomerulonephritis as a Complication of Subacute Bacterial Endocarditis", *Bull. Johns Hopkins Hosp.*, 1949, 84:207-215.
4. Holm, B., Boyarsky, S., and Morrione, T.G., "The Effect of Experimental Devascularization on Gastric Mucosa", *Gastroenterology*, 1949, 12:116-121.
5. Boyarsky, S., Eadie, G.S., Rankin, W., Vanderlinde, R.J., and Walters, P.A., "Appearance Times of Phenol

- Red and Inulin in Urine" *J. Appl. Physio.*, 1952, 5:256-260.
6. Boyarsky, S., "Paraplegia Following Translumbar Aortography", *JAMA*, 1954, 156:599-602.
 7. Boyarsky, S. and Duque, O., "Ureteral Regeneration in Dogs: an Experimental Study Bearing on the Davis Intubated Ureterotomy", *J. Urol.*, 1955, 73:53-61.
 8. Boyarsky, S., Taylor, A. and Baylin, G.J., "Extravasation in Excretory Urography", *Urol. Internat.*, 1955, 1:191-198.
 9. Nowill, W.K., Hall, H.E., Ausherman, H.M., Smith, A., Shingleton, W., and Boyarsky, S., "Physiological Variations During Induced Hypothermia in the Dog", *Proc. 1st Internat. Anesth. Congress*, 1955, 19:95-104.
 10. McCrory, W.W., Rieck, A., Boyarsky, S., Biggs, A.W., and Soley, R., "Studies of Adrenaline Diuresis in the Spiny Dog Fish", *Bull. Mount Desert Island Biol. Lab.*, 1956, 4:38.
 11. Boyarsky, S., Cohen, J.J., Biggs, A.W., and Soley, R., "Further Studies of Adrenaline Diuresis in the Spiny Dog Fish", *Bull. Mount Desert Island Biol. Lab.*, 1956, 4:39.
 12. Cohen, J.J., Boyarsky, S., and Biggs, A.W., "Further Studies of Renal Excretion of Trimethylamine Oxide in the Dog Fish", *Bull. Mount Desert Island Bio. Lab.*, 1956, 4:52.
 13. Boyarsky, S., "Discussion (by Invitation) on the Paper, Effect of Exercise on Renal Function", *Southern Med. J.*, 1957, 50:7.
 14. Boyarsky, S., and Smith, H.W., "Renal Concentrating Operation at Low Urine Flows", *J. Urol.*, 1957, 78:511-524.
 15. Boyarsky, S., "Comments (by Invitation) on the Paper, 'Alterations in Renal Function During Hypothermia in Man'", *Survey Anesth.*, 1958, 2:438.
 16. Chovnick, S.D., Boyarsky, S., and Newman, H.R., "Clinical Value of Indirect Methods of Determination of Residual Urine Volume" *New York State J. Med.*, 1960, 60:259-264.
 17. Boyarsky, S., "Residual Urine", *Curr. Med. Digest*, 1960, 27:55-58.
 18. Gioustremes, V., Boyarsky, S., and Newman, H.R., "Fatal Air Embolism Following Presacral Air Insufflation. Occurrence Despite Manometric Control", *J. Urol.*, 1961, 85:361-384.
 19. Boyarsky, S., and Martinez, J., "Ureteral Peristaltic Pressures in Dogs with Changing Urine Flows", *J. Urol.*, 1962, 87:25-32.
 20. Boyarsky, S., and Goldenberg, J., "Detection of Bladder Distention by Suprapubic Percussion", *New York State J. Med.*, 1962, 62:2999-3001.
 21. Boyarsky, S., and Goldenberg, J., "Detection of Bladder Distention by Suprapubic Percussion", *New York State J. Med.*, 1962, 62:1804-1807.

22. Boyarsky, S., Kaplan, N., Martinez, J., and Elkin, M., "Cinefluorography of the Urinary Tract After Ureteroileostomy", *J. Urol.*, 1962, 88:325-329.
23. Shapiro, L., Boyarsky, S., and Roberts, T., "Carcinoma Developing in Queyrat's Erythroplasia", *New York State J. Med.*, 1962, 62:2999-3001.
24. Abramson, A.S., Roussan, M., Boyarsky, S., and Freedman, H.K., "The Role of Smooth and Striate Muscle in the Dynamics of Voiding: a Method of Study by Combined Cystometry and Electromyography", *Proc. 11th Annual Spinal Cord Injury Conf.*, 1962, 107-121.
25. Roussan, M., Freedman, H.K., Boyarsky, S., and Abramson, A.S., "The Role of Smooth and Striate Muscle in the Production of Paroxysmal Hypertension in Individuals with and without Central Nervous System Lesion", *Proc. 11th Annual Spinal Cord Injury Conf.*, 1962, 122-137.
26. Boyarsky, S., Martinez, J., Elkin, M., and Goldenberg, J., "Integration of Renal and Ureteral Function by Intraluminal Pressure", *JAMA*, 1963, 183:434-435.
27. Boyarsky, S., "The Use of Urinary Diversion in Repair of Bladder Exstrophy", Personal Communication via *Urologists' Correspondence Club*, 1963, p. 25.
28. Boyarsky, S., Kaplan, N., Martinez, J., Elkin, M., and Shinoda, T., "Pathophysiologic Study of the Gradual Development of Hydronephrosis Induced by Passage of Graded Size Catheters in Dogs", *Surg. Forum*, 1963, 14:484-486.
29. Boyarsky, S., "Trauma of the Urinary Bladder", *Med. Trial Technique Quarterly*, 1964, 1-28.
30. Elkin, M., Boyarsky, S., Martinez, J., and Kaplan, N., "Physiology of Ureteral Obstruction as Determined by Roentgenologic Studies", *Am. J. Roent., Radium Therapy & Nuclear Med.*, 1964, 92:291-301.
31. Boyarsky, S., and Martinez, J., "Pathophysiology of the Ureter: Partial Ligation of the Ureter in Dogs", *Invest. Urol.*, 1964, 2:173-180.
32. Boyarsky, S., "Cinefluorographic and Peristaltic Pressure Studies of the Disordered Ureteral Motility in Determining a Possible Etiologic Factor in Pyelonephritis", *Progress in Pyelonephritis*, Ed Kass (ed.), Philadelphia, F.A. Davis Co., 1965, 641-644.
33. Boyarsky, S., Catacutan-Labay, P., Newmark, T., Krugman, A., and Glenn, J.F., "Study of Micturition in Urological Patients by Combined Cystometry and Uroflometry", *Proc. Ann. Spinal Cord Inj. Conf.*, 1964, 13:1-10.
34. Boyarsky, S., Sharkey, J., and Catacutan-Labay, P., "The Effect of Intravenous Infusion of Potassium Chloride (KCL) on Canine Ureteral Peristalsis in Vivo", *Invest. Urol.*, 1964, 2:241-247.
35. Martinez, J., Kaplan, N., and Boyarsky, S., "Laboratory and Clinical Studies of Ureteral Replacement by Ileum", *J. Urol.*, 1965, 93:185-188.
36. Sharkey, J., Boyarsky, S., Catacutan-Labay, P., and Martinez, J., "The In Vivo Effects of Histamine and Benadryl on the Peristalsis of the Canine Ureter and Plasma Potassium Levels", *Invest. Urol.*, 1965,

2:417-427.

37. Atwill, W.H., Boyarsky, S., and Glenn, J.F., "Effect of Spironolactone on Experimental Renovascular Hypertension", *Surg. Forum*, 1965, 16:494-495.
38. Catacutan-Labay, P., and Boyarsky, S., "Bradykinin: Effect on Ureteral Peristalsis", *Science*, 1966, 151:78-79.
39. Atwill, W.H., Boyarsky, S., and Glenn, J.F., "Observations on the Replacement of Longitudinal Ureteral Defects with Ileal Serosa", *Invest. Urol.*, 1966, 3:364-371.
40. Boyarsky, S., Henson, P., and Glenn, J.F., "Recent Advances in Intravenous Urography", *N. Carolina Med.*, 1966, 27:231-237.
41. Henson, P., Boyarsky, D., "Constant Infusion Excretory Urography", *J. Urol.*, 1966, 95:814-817.
42. Boyarsky, S., Labay, P., Krugman, A., Glenn, J.F., and Newmark, T., "Clinical Evaluation of Bladder Pressure Studies in Urological Patients by Combined Cystometry and Uroflometry", *J. Urol.*, 1966, 95:778-780.
43. Boyarsky, S., Labay, P., and Gerber, V., "Prostaglandin Inhibition of Ureteral Peristalsis", *Invest. Urol.*, 1966, 4:9-11.
44. Boyarsky S., and Labay, P., "The Affect of Dichloroisoproterenol, a Adrenergic Blocker, on Ureteral Function", *Invest. Urol.*, 1966, 4:1-8.
45. Boyarsky, S., Kirshner, N., and Labay, P., "The Control of Ureteral Function", *Med. Serv. J. Canada*, 1966, 22:601-612.
46. Ensor, R. D., Boyarsky, S., and Glenn, J.F., "A Technique for Ureteral Catheterization of the Intact Female Dog to Measure Pressures", *Invest. Urol.*, 1966, 4:174-179.
47. Estes, R.C., Boyarsky, S., and Glenn, J.F., "Experimental Microsurgical Ureteral Anastomosis", *J. Urol.*, 1966, 96:443-444.
48. Boyarsky, S., Kirshner, N., and Catacutan-Labay, P., "Catecholamine Content of the Normal Dog Ureter", *Invest. Urol.*, 1966, 4:97-102.
49. Ensor, R.D., Boyarsky, S., and Glenn, J.F., "Cystoscopy and Ureteral Catheterization in the Dog", *J. Am. Vet. Med. Assoc.*, 1966, 149:1067-1072.
50. Boyarsky, S., Labay, P., and Kirshner, N., "Acceleration of Ureteral Peristalsis by Adrenal Compression", *Science*, 1966, 154:669.
51. Boyarsky, S., Catacutan-Labay, P., and Pircher, F., "Effect of Eleodoisin, a Polypeptide Kinin, on Ureteral Peristalsis", *Invest. Urol.*, 1966, 4:420-423.
52. Catacutan-Labay, P., Boyarsky, S., and Gerber, C., "The Effect of Serotonin (5-Hydroxytryptamine) on Ureteral Peristalsis", *Invest. Urol.*, 1966, 4:224-234.

53. Boyarsky, S., and Labay, P.. "Histamine Analog Effect on the Ureter", *Invest. Urol.*, 1967, 4:351-365.
54. Cooper, N., Barry, W.F., Jr., Labay, P., and Boyarsky, S., "Evidence of Renal Hemodynamic Changes Encountered After Dichloroisoproterenol", *Invest. Urol.*, 1967, 4:366-371.
55. Ensor, R.D., Boyarsky, S., and Glenn, J.F., "Determination of Ureteral Pressures in the Intact Dog", *J. Urol.*, 1967, 97:240-244.
56. Boyarsky, S., Labay, P., Kirshner, N., and Gerber, C., "Does the Ureter Have Nervous Control?", *J. Urol.*, 1967, 97:627-632.
57. Boyarsky, S., "Management of the Genito-Urinary Problems of the Paraplegic", *Ala. J. Med. Sci.*, 1967, 4:119-122.
58. Atwill, W.H., Boyarsky, S., and Glenn, J.F., "Ureteral Replacement by Ileal Seromuscular Tubes Lined with Cutaneous Epithelium: Preliminary Evaluation", *J. Urol.*, 1967, 97:254-258.
59. Anderson, E.E., Stickel, D.L., Boyarsky, S., and Glenn, J.F., "Urologic Considerations in Renal Homotransplantation", *Urol. Digest*, 1967, 6:15-17.
60. Malin, J.M., Jr., Barry, W.F., Jr., Labay, P., and Boyarsky, S., "Canine Nephrostome: A Chronic Preparation for Physiologic, Pharmacologic, and Radiologic Ureteral Profusion Studies", *Invest. Urol.*, 1967, 5:161-163.
61. Boyarsky, S., and Labay, P., "Stimulation of Ureteral Peristalsis Through the Renal Nerves", *Invest. Urol.*, 1967, 5:200-202.
62. Boyarsky, S., Labay, P., and Glenn, J.F., "More Evidence for Ureteral Nerve Function and its Clinical Implications", *Transactions of the Am. Assoc. of G.U. Surgeons*, 1967, 59:119-124.
63. Boyarsky, S., and Weber, C., "False Negatives in Renal Angiography", *Urologists' Correspondence Club*, 1967.
64. Boyarsky, S., Labay, P., and Lenaghan, D., "Transureteroureterostomy, Bifid Ureters and Ureteral Dyskinesia", *J. Urol.*, 1968, 99:156-159.
65. Teague, N., and Boyarsky, S., "The Effect of Coliform Bacilli Upon Ureteral Peristalsis", *Invest. Urol.*, 1968, 5:423-426.
66. Malin, J.M., Jr., Boyarsky, D., Labay, P., and Gerber, C., "In Vitro Isometric Studies of Ureteral Smooth Muscle", *J. Urol.*, 1968, 99:396-398.
67. Glenn, J.F., Small, M.P., and Boyarsky, S., "Complications of Ileal Segment Urinary Diversion in Children", *Urol. Internat.*, 1968, 23:97-102.
68. Boyarsky, S., Labay, P., and Glenn, J.F., "More Evidence for Ureteral Nerve Function and its Clinical Implications", *J. Urol.*, 1968, 99:533-538.

69. Small, M.P., Boyarsky, S., and Glenn, J.F., "Clinical and Experimental Evaluation of Ileal Segment Urinary Diversion", *Am. J. Surg.*, 1968, 115:782-786.
70. Teague, N., and Boyarsky, S., "Further Effects of Coliform Bacteria on Ureteral Peristalsis", *J. Urol.*, 1968, 99:720-724.
71. Boyarsky, S., "Special Address: Advances in Neurogenic Bladder", *Jap. J. Urol.*, 1968, 59:750-754.
72. Boyarsky, S., Labay, P., and Kirshner, N., "Further Evidence for Physiologic Ureteral Innervation", *Proc. 15th Annual Spinal Cord Injury Conf.*, 1966, 5-15.
73. Boyarsky, S., Labay, P., and Pfautz, C.J., "The Effect of Nicotine Upon Ureteral Peristalsis", *S. Med. J.*, 1968, 61:573-579.
74. Seabury, J.C., Jr., and Boyarsky, S., "Evaluation of Silastic-coated Balloon Catheters", *J. Urol.*, 1968, 100:90-91.
75. Atwill, W.H., Boyarsky, S., and Glenn, J.F., "Effect of Adrenalectomy on the Course of Experimental Renovascular Hypertension", *Am. J. Surg.*, 1968, 115:755-758.
76. Nechay, B.R., Boyarsky, S., and Catacutan-Labay, P., "Short Communication: Rapid Migration of Urine into Intestine of Chickens", *Comp. Biochem. Physiol.*, 1968, 26:369-370.
77. Seabury, J.C., Jr., Erwin, C.U., and boyarsky, S., "Clinical Experience with Isopaque-300 in Excretory Urography and Evaluation of Cerebral Electrical Activity", *J. Urol.*, 1968, 100:701-703.
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159. Boyarsky, S., Steinhardt, G. and Onder, R., "Medicolegal Aspects of Testicular Torsion", *Missouri Medicine*, 1990, vol. 87, No. 359-362.
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Testimony from Urologic Expert Witnesses", *AUA Today*, January 1992, vol. 5, No. 1, 8-9.

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165. Boyarsky, S., "Problems with Physician Expert Witnesses", accepted for publication by *Trauma*, spring, 1993.
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169. Boyarsky, Saul and Martin J. Wall, "Blindness and Candiduria", *Urologists' Correspondence Club*, August 7, 1994.
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Workshop Participation or Organization:

1. A.M.A. Medical Writers Seminar, A.M.A. Headquarters, Chicago, Il, 1966 (Jan 17). Participant.
2. PHS--Workshop on Prevention, National Center for Chronic Disease Control, Kidney Disease Control Program, Arlington, VA, 1967 (Nov. 29-30). Participant.
3. National Academy of Sciences, National Research Council. Workshop on the Hydrodynamics of Micturition, Iowa City, 1968. Co-chairman.
4. National Academy of Science--National Research Council, Workshop on the Hydrodynamics of the Ureter, Chicago, Il, 1969 (Oct.24-26). Chairman.
5. American Management Association. Workshops on Management, New York, NY, 1970 (Jan. 5-9, Feb. 9-13, April 13-17, completed May 18-22). Participant.
6. Interdisciplinary Clinical, Educational and Research Aspects of a Regional Center for the Rehabilitation of Spinal Cord Injured Persons, Rancho Los Amigos Hospital, Inc., Downey, CA, Sept. 1969. Participant.
7. The Southwest Regional System for Treatment of Spinal Injury, Phoenix, AZ, June 25-26, 1970.

8. Spinal Cord Injury Workshop, St. Louis, MO. 1971 (Aug.5-7). Organizer (Key factor analysis).
9. Spinal Cord Injury Workshop, Harvard University, Boston, MA., Oct. 1971. Participant.
10. Missouri State Medical Association, 115th Annual Session, St. Louis, MO moderator: "Health Care Team Concept--Spinal Cord Injury", March 29-April 1, 1973.
11. American Fertility Society, Round Table Discussion, Apr. 5, 1973, "Role of the Urologist in Reproductive Biology".
12. "Physiology of Bladder and Micturition" and "Pharmacology Research of Incontinence", Mayo Clinic Workshop, Dec. 1974.
13. Workshop in Urology and Andrology, March 19, 1977, Palm Springs, CA. Andrology society.
14. Panel on Urologic Surgery: "How I Do It", Mexican Urological Association, May 1-2, 1978, Leon, Guanajuato, Mexico. Participant.
15. Future Goals of Male Reproductive Medicine and Surgery Workshop, Sept. 19, 1979, Bethesda, MD.
16. AMA Medical Data Base Workshop (Chaired one session by S. Boyarsky, M.D.), Washington, DC., March 29-30, 1983.
17. Georgetown University Health Policy Workshop, Reuse of Disposable Devices, Washington, DC., March 29-30, 1984.
18. St. Louis Metropolitan Medical Society--Workshop on "What Action Should Organized Medicine Take to Meet the Medical Malpractice Crisis?", November 16, 1985.
19. The Bar Association of Metropolitan St. Louis Medical-legal Committee, in cooperation with St. Louis Medical Society American College of Legal Medicine, St. Louis, MO, "Interpreting Medical Evidence", December 6, 1985.
20. St. Louis Metropolitan Medical Society--Legislative Teach-in, January 23, 1986.
21. Missouri State Medical Association, Osage Beach, Missouri, Round Table Discussion, Chairman, Torsion of the Testicle, April 3, 1987.
22. The Bar Association of Metropolitan St. Louis in Cooperation with St. Louis Metropolitan Medical Society, "Medical Negligence: How to Avoid Liability and How to Prepare for Trial", St. Louis, MO, June 21-22, 1991.
23. AAFS 44th Annual Meeting, "How to Be a Better Expert Witness--Parts 1 and 2", New Orleans, February 17 and 18, 1992, New Orleans, AAFS 44th Annual Meeting.
24. ACLM 32nd Annual Conference on Legal Medicine, San Diego, March 26-28, 1992.
25. "How to Be a Better Expert Witness", 44th Annual Meeting of American Academy of Forensic Sciences, February 17-22, 1992.

26. "Taking and Defending Depositions", University of Missouri, Kansas City, Continuing Legal Education Workshop, St. Louis, March 12, 1992.
27. "Physicians' Response to Malpractice Crisis", Medical-legal Committee of the St. Louis Metropolitan Medical Society, November 16, 1985.
28. "Round Table: Testifying as an Expert Witness", ACLM, 33rd Annual Conference on Legal Medicine, Las Vegas, March 12, 1993.
29. "Guidelines", ACLM, 34th Annual Conference on Legal Medicine, Anaheim, CA, March 11, 1994. Chairman.

Exhibits and Movies:

1. Boyarsky, S., Chovnick, S.D., and Newman, H.R., Exhibit: "Residual Urine Indirect Stimulation Versus Catheterization", *Modern Medicine* 27:109, 1959. American Medical Association, Atlantic City, NJ, april, 1959.
2. Boyarsky, S., Chovnick, S.D., Goldenberg, J., and Newman, H.R., Exhibit: "Can Catheterization of Residual Urine be Avoided?", Southeastern Section of American Urological Association, Hollywood, FL, Mar. 1969.
3. Glenn, J.F., Boyarsky, S., and Robertson, L., Exhibit: "Bilateral Retroperitoneal Carbon Dioxide Insufflation", Southeastern Section of American Urological Association, April 1964. Health Fair, Duke Univ. Indoor Stadium, April 1964. American College of Surgeons, Chicago, IL, Oct. 1964. American Urological Association, New Orleans, LA, May 1965.
4. Boyarsky, S., Movie: "The Urological Examination", Editorial Laboratories, 1965. American College of Surgeons, 1965. Film library for classroom use.
5. Boyarsky, S., Glenn, J.F., and Henson, P.E., Exhibit: "Continuous Infusion Intravenous Urography", American Medical Association, Chicago, IL, June 1966. American Urological Association, Miami, FL, Mar. 1965.
6. Ensor, R.D., Boyarsky, S., Labay, P., and Glenn, J.F., Exhibit: "Physiologic Diagnosis Through Urodynamics", Southeastern Section of American Urological Association, Hollywood Beach FL, April 1967. American Urological Association, New York, May 1967 1st prize. American College of Surgeons, Annual Clinical Congress, Oct. 1967. American Medical Association, Houston, TX, Nov. 1967. Southern Medical Association, Miami Beach FL, Nov. 1967. Medical Society of the State of North Carolina, Pinehurst, NC, May 1968.
7. Pfautz, C.J., Labay, P., and Boyarsky, S., Movie: "The Effect of Nicotine on Ureteral Peristalsis in the Experimental Animal", American Urological Association, New York, May 1967. American Medical Association, Kansas City, MO, Oct. 1967.

8. Other filmstrips and movies presentee:

Physiology of the Dog Ureter

Graded Passage of Ureteral Catheters

The Ureter in Pyelonephritis

The Effect of Serotonin on the Ureter

The Effect of Histamine on the Ureter

The Effect of Bradykinin on the Ureter

The Effect of Diazoxide on the Ureter

Cinefluorography on the Urinary Tract After Ureteral Ileostomy

The Effect of Obstruction on the Human Ureter as Viewed Under
Cinefluorography

The Effect of Diazoxide on ureteral Function

The Effect of E.Coli on UreUeral Peristalsis (I and II)

The Effect of Aerobacter Aerogenes Upon Ureteral Function

9. Brown, P., Boyarsky, S., and Melick, W.F., "Development of Voluntary Consensus Standards for Urological Materials and Devices", presented at the 78th Annual Meeting of the American Urological Association, Las Vegas, Nevada, April 17-21, 1983.