

Indiana University School of Medicine
Curriculum Vitae
Martin Kaefer, M.D.

Education:

Undergraduate:	Northwestern University Evanston, Illinois B.A. Medical Science, 6/1/83 Honors Program in Medical Education
Graduate:	Ruprecht Carls Univeritat Institut fur Molekular Genetik Heidelberg, Germany Academic Scholarship, 1983-1984 Deutsches Akademisches Austauschdienst Northwestern University Medical School Chicago, Illinois 1984-1986 Honors: Junior AOA scholar Ruprecht Carls Univeritat Institut fur Molekular Genetik Heidelberg, Germany Academic Scholarship, 1986-1987 Fulbright Scholar Northwestern University Medical School Chicago, Illinois Doctor of Medicine, 6/1/89
Postgraduate:	Surgery Intern/Resident Indiana University School of Medicine Indianapolis, Indiana 1989-1991

Urology Resident
Indiana University School of Medicine
Indianapolis, Indiana
1991-1994
Chief Resident in Urology
1994-1995

Pediatric Urology Fellowship
Children's Hospital
Harvard Medical School
Boston, Massachusetts
1995-1998

Academic Appointments:

Associate Professor of Urology
Department of Urology
Indiana University School of Medicine
1998-present

Hospital Appointments:

JW Riley Hospital for Children, Indianapolis, IN
Active Attending Staff, 1998-present

Indiana University Medical Center, Indianapolis, IN
Active Attending Staff, 1998-present

Wishard Hospital, Indianapolis, IN
Active Attending Staff, 1998-present

Methodist Hospital, Indianapolis, IN
Active Attending Staff, 1998-present

St. Vincent Hospitals, Indianapolis, IN
Provisional Attending Staff, 1998-present

St. Francis Hospitals, Indianapolis, IN
Provisional Attending Staff, 2001-present

Specialty Board Status:

Diplomate, National Board of Medical Examiners
Part I,II,III Completed 1990

Diplomate, American Board of Urology
Part I, 1995 Part II, 2000

Medical Licensure and Certification:

Indiana: 01041933
Boston: 95-2771-98 (inactive)

Professional Organizations:

American Urological Association
Member

North Central Section, American Urological Association
Member

American Society of Pediatric Urologists
Member

Fellow, American College of Surgeons

Fellow, American Academy of Pediatrics

Indianapolis Medical Society
Member

Indiana State Medical Association
Member

American Physiological Society
Member

National Kidney Foundation
Member

Honors and Awards:

Deutsches Akademisches Austauschdienst (DAAD) Scholarship
University of Heidelberg, Department of Molecular Genetics, 1983

National Institute of Health Student Research Grant.
Department of Urology, Northwestern University, 1985

Fulbright Scholarship
University of Heidelberg, Department of Neurologic Pathology, 1987

First Prize: Basic Science Research
American Academy of Pediatrics, 1996

Farley Award
Children's Hospital, Harvard Medical School, 1996

Von L. Meyer Fellowship for Foreign Study

Children's Hospital, Harvard Medical School, 1997

First Prize: Clinical Research in Pediatric Urology
American Academy of Pediatrics, 1997

Von L. Meyer Fellowship for Foreign Study
Children's Hospital, Harvard Medical School, 1998

Second Prize: Clinical Research in Pediatric Urology
American Academy of Pediatrics, 1998

Third Prize: Basic Science Research
European Society of Pediatric Urology, 2001

First Prize: Basic Science Pediatric Research
American Urological Association, 2001

First Prize: ACMI Prize for Basic Science Research,
American Urological Association, 2002

Clarion Values Trustee Award for Teaching Excellence, 2002

First Prize: Basic Science Research
European Society of Pediatric Urology, 2003

Third Prize: Basic Science Research
European Society of Pediatric Urology, 2003

Professional Service – Presentations and Lectures:

Service to Discipline:

State and Regional:

- 1) **Kaefer, MK:** Evaluation of Adult and Pediatric Hematuria.
Indiana Academy of Family Physicians. November, 1998.
- 2) **Kaefer, MK:** A Novel approach to evaluating the effects of hydrostatic pressure on the bladder. Donohue Symposium. November, 1998

- 3) **Kaefer, MK:** Heparin Binding Epidermal Growth Factor Expression in Response to Hydrostatic Pressure. Wells Cancer Research Meeting. 8/10/1999
- 4) **Kaefer, MK:** Vesicoureteral Reflux: Indiana University Resident Seminar: 8/30/99
- 5) **Kaefer, MK:** General Surgery Grand Rounds: Cryptorchidism: Diagnosis and Treatment: Wishard Hospital: 1/20/2000
- 6) **Kaefer, MK:** Methodist Hospital Family Practice Grand Rounds: Pediatric Urology: A review for the family practitioner: Methodist Hospital: 3/30/2000
- 7) **Kaefer, MK:** Methodist Emergency Medicine/General Surgery Conference: Pediatric Urologic Emergencies: Methodist Hospital: 4/6/2000
- 9) **Kaefer, MK:** Pediatric Rounds: Advances in the diagnosis and treatment of bladder outlet obstruction. Methodist Hospital: 4/23/2000
- 10) **Kaefer, MK:** Pediatric Grand Rounds: Advances in the diagnosis and treatment of bladder outlet obstruction. Riley Hospital: 4/26/2000
- 11) **Kaefer, MK:** Urology Rounds, United Center, Chicago, Illinois. Diagnosis and Treatment of the Overactive Bladder. 1/27/2001
- 12) **Kaefer, MK:** Pediatric Rounds: The diagnosis and treatment of Vesicoureteral Reflux. Methodist Hospital: 6/14/2001
- 13) **Kaefer, MK:** Hypospadias: Interview with Stacia Mathews for Channel 6. 7/12/2001
- 14) **Kaefer, MK:** Pediatric Grand Rounds: Novel approaches to the Diagnosis and Treatment of Bladder Dysfunction. 9/26/2001
- 15) **Kaefer, MK:** Pediatric Rounds: The diagnosis and treatment of Undescended Testicles. Methodist Hospital: 11/12/2001
- 16) **Kaefer, MK:** Pediatric Neonatology Rounds: Urinary Tract Malformations. 2/15/2002
- 17) **Kaefer, MK:** Department of Cellular and Integrative Physiology Seminar Series. Bladder outlet obstruction: novel methods of investigation and therapy. 1/23/2002.
- 18) **Kaefer, MK:** Grand Rounds Richmond Hospital: The Diagnosis and Treatment of Vesicoureteral Reflux. 3/13/2002

19) Kaefer, MK: Pediatric Grand Rounds: Intersex Abnormalities and Sex Assignment. Indianapolis, Indiana 2/26/2003

20) Kaefer, MK: Neonatology Research Rounds: Bladder Outlet Obstruction; Advances in Research and Treatment. Indianapolis, Indiana 2/27/2003

National and International:

1) Kaefer, MK: What Pressure is Bad for the Bladder? Department of Urology, University of Wisconsin, Madison, Wisconsin 7/13/1999.

2) Kaefer, MK: Advances in the diagnosis and treatment of bladder outlet obstruction. Urology Grand Rounds. University of Southern Illinois, Springfield, Illinois. 4/19/2001

3) Kaefer, MK: Novel Models for the Study of Bladder Outlet Obstruction. Asian Association of Pediatric Surgery. Singapore. 10/29/2002

4) Kaefer, MK: Novel Biomatrices for Bladder Augmentation. Asian Association of Pediatric Surgery. Singapore. 10/29/2002

5) Kaefer, MK: Bladder Regeneration. Festschrift for Alan Retik, MD Chairman of Pediatric Urology. Harvard Medical School, Boston, Massachusetts. 11/9/2002

6) Kaefer, MK: Bladder Outlet Obstruction: Novel Methods for Determining the Threshold at Which Bladder Decompensation Occurs. Festschrift for Hardy Hendren, MD Chairman of Pediatric Surgery. Harvard Medical School, Boston, Massachusetts. 4/11/2003

Community Service:

1) Kaefer, MK: Perry Meridian High School: Scrotal Emergencies. 4/20/2000

2) Kaefer, MK: Perry Meridian High School: Scrotal Emergencies. 4/22/2002

3) Kaefer, MK: Assessment and Treatment of Bladder and Bowel Dysfunction in Spina Bifida. 6/14/2003

Clinical Practice: The Division of Pediatric Urology at Riley Children's Hospital is one of the two busiest clinical centers in North America. I have spent every month over the past five years in active clinical practice. In the 2002-2003 academic year I personally performed over 600 (614) procedures in over 375 children, and saw over 1800 patients in our outpatient clinic.

Prenatal Diagnosis: Maternal Fetal Outreach Clinics at Aegis Health Care (Bloomington, Indiana) and Union Hospital (Terre Haute). I have helped develop and staffed these interdisciplinary clinics with Drs Petra Belady and Dr. Lillie-Mae Padilla, director of Maternal Fetal Medicine. I currently see approximately 2-3 patients per month. I see these families during the course of the pregnancy and care for the children after birth.

Outreach Pediatric Urology Clinics: In the last two years I have staffed an outreach clinic at St. Francis Hospital in Indianapolis. I am in the process of developing a similar outreach clinic in Terre Haute, Indiana.

Pediatric Nephrolithiasis Clinic: In collaboration with Dr. Jeffrey Leiser of Pediatric Nephrology I have developed the Pediatric Nephrolithiasis Clinic which provides a multidisciplinary approach to the management of Pediatric Renal Stone Disease. Plans for formal promotion of this program are in the final planning stages.

University Service:

University Committee Service:

Internal Review Board, 2001- present

American Cancer Society Institutional Grant Review Board 2001-present

Departmental Service:

Head of Pediatric Basic Science Research

Professional Activities:

Service to Discipline:

Editorial Reviewer, Urology, 1999-present

Editorial Reviewer, Journal of Urology, 1999-present

Editorial Reviewer, Journal of Pediatric Surgery, 1999-present

Editorial Reviewer, Infections in Urology, 2000-present

Abstract Committee Member, European Society of Pediatric Urology.
2000

Chairman of Scientific Session: European Congress of Pediatric Surgery
(EUPSU), Pecs University, 2001

Committee Member, Food and Drug Administration. Evaluated Deflux – a novel
device for the treatment of vesicoureteral reflux., 2001

Chairman Basic Research Abstract Committee, American Academy of Pediatrics,
Section on Urology, 2003

Grants and Fellowships:

Kaefer, MK: The Role of HB-EGF in Prostatic Disease. American Foundation for Urologic Disease (AFUD), National Institute of Health, 7/1995 – 6/1996. \$50,000

Kaefer, MK: A Novel Experimental Model for Studying disorders of Bladder Function Secondary to Bladder Outlet Obstruction. National Kidney Foundation of Indiana 1/1999 – 12/1999. \$20,000. **Principal Investigator**

Kaefer, MK: A Novel Experimental Model for Studying the Deleterious Effects of Urinary Tract Obstruction. Riley Memorial Association 7/1999-6/2000 \$49,540. **Principal Investigator**

Kaefer, MK: Bladder Obstruction: Determining the Threshold for Injury and a Unique Approach to Treatment. Clarian Values Grant. 10/1999 – 1/2002. \$79,582. **Principal Investigator**

Kaefer, MK: Genitourinary Reconstruction using a Dermal Matrix. National Kidney Foundation of Indiana. 1/2001 – 12/2001. \$15,000. **Principal Investigator**

Kaefer, MK: Bladder Cancer: A novel approach to the prevention and treatment of localized and metastatic disease. American Cancer Society Seed Grant. 1/2001 - 12/2001. \$20,000. **Principal Investigator**

Kaefer, MK: Bladder Augmentation Utilizing Allogeneic Acellular Dermal Matrix. Riley Memorial Association. 7/2001 - 6/2002 \$63,000. **Principal Investigator**

Kaefer MK: Bladder Regeneration with a Skin Biomatrix. Showalter Trust. 7/2002 – present \$40,000. **Principal Investigator**

Packer, CS, **Kaefer, MK:** The in vivo effects of DMSO on cellular and functional properties of the mammalian bladder. (submitted 6/2003) Interstitial Cystitis Association Research Foundation. \$20,150. **Co-principal Investigator**

In addition to the above mentioned grants I wrote a Valentine Proposal (from the New York Academy of Sciences) for Dr. Rosalia Misserie (our present fellow) which was funded for \$50,000 in the last calendar year.

Publications (Refereed):

1. Berlet, H, Ilzenhoefer, H, **Kaefner, M**: Soluble and bound acid protease activity of myelin from bovine cerebral white matter and spinal cord. *Neurochemistry Research*. 13: 409-415, 1988.
2. Lee, C, **Kaefner, M**, Zhao, Z: Demonstration of the role of prostate-specific antigen in semen liquefaction by two-dimensional electrophoresis. *Journal of Andrology*. 10: 432-438, 1989
3. **Kaefner, M**, Keating, MA, Adams, MC, Rink, RC: Posterior urethral valves, pressure pop-offs and bladder function. *Journal of Urology*. 154: 708-711, 1995.
4. Leibovitch, I, **Kaefner, M**, Bihrl, R: An alternative surgical technique for the management of afferent limb stricture in Kock pouch continent urinary diversion. *Urology*. 46 (6): 867-9, 1995.
5. **Kaefner, M**, Audia, JE, Bruchovsky, N, Goode, RL, Hsiao, KC, Leibovitch, IV, Krushinski, JH, Lee, C, Steidle, CP, Sutkowski, DM, Neubauer, BL: Characterization of type I 5 alpha-reductase activity in DU145 human prostatic adenocarcinoma cells. *Journal of Steroid Biochemistry and Molecular Biology*. 58(2): 195-205, 1996.
6. **Kaefner, M**, Barnewolt, C, Retik, AB, and Peters, CA: The sonographic diagnosis of intravesical obstruction in children: evaluation of bladder wall thickness indexed to bladder filling. *Journal of Urology* 157: 989-991, 1997
7. **Kaefner, M**, Tobin, MS, Hendren, WH, Bauer, SB, Peters, CA, Atala, A, Colodny, AH, Mandell, J, and Retik, AB: Continent urinary diversion: The children's hospital experience. *Journal of Urology*. 157: 1394-1399, 1997
8. **Kaefner, M**, Adams, MC: Penile and bladder agenesis in a living male child. *Journal of Urology*. 157: 1439-1440, 1997
9. **Kaefner, M**, Adams, MC, Rink, RC, Keating, MA: Principles in management of complex genitourinary plexiform neurofibroma. *Urology*. 49: 936-940, 1997
10. **Kaefner, M**, McLaughlin, KP, Rink, RC, Adams, MC, Keating, MA: Upsizing of the artificial urinary sphincter cuff to facilitate spontaneous voiding. *Urology*. 50: 106-109, 1997
11. **Kaefner, M**, Peters, CA, Retik, AB, Benaceraff, BB: Increased Renal Echogenicity: A sonographic sign for differentiating between obstructive and nonobstructive etiologies of in utero bladder distention. *Journal of Urology*. 157: 1026-1029, 1997
12. **Kaefner, M**, Rosen, A, Darbey, M, Kelly, M, Bauer, S.B.: Pressure at residual volume (PRV): a useful adjunct to standard fill cystometry. *Journal of Urology*. 157: 1268-1271, 1997

13. **Kaefler, M**, Zurakowski, D, Bauer, SB, Retik, AB, Peters, CA, Atala, A, and Treves, ST: Estimating normal bladder capacity in children. *Journal of Urology*. 158: 2261-2264 1997
14. Freeman, MR, Paul, S, **Kaefler, M**, Ishikawa, M, Adam, RM, Renshaw, AA, Elenius, K, Klagsbrun, M: Heparin-binding EGF-like growth factor in the human prostate: synthesis predominantly by interstitial and vascular smooth muscle cells and action as a carcinoma cell mitogen. *Journal of Cellular Biochemistry*, 68:328-38, 1998
15. **Kaefler, M**, Hendren, WH, Bauer, SB, Goldenblatt, P, Peters, CA, Atala, A, and Retik, A.B.: Reservoir calculi: A comparison between reservoirs constructed from stomach and other enteric segments. *Journal of Urology*., 160:2187-2190, 1998
16. Borer, JG, **Kaefler, M**, Barnewolt, CE, Elias, ER, Hobbs, N., Retik, AB, Peters, CA: Renal findings on radiological follow-up of patients with Beckwith-Wiedemann Syndrome. *Journal of Urology*. 161:235-239, 1999
17. **Kaefler, M**, Diamond, D, Hendren, WH, Vemulapalli, S, Bauer, SB, Peters, CA, Atala, A, Retik, AB: The incidence of intersex in children with cryptorchidism and hypospadias: stratification based on gonadal palpability and meatal position. *Journal of Urology*. 162:1003-1007, 1999.
18. **Kaefler, M**, Pabby, A, Kelly, M, Darbey, M, Bauer, SB: Improved bladder function after prophylactic treatment of high risk neurogenic bladder in newborns with myelomeningocele. *Journal of Urology*. 162:1068-1069, 1999.
19. **Kaefler, M**, Andler, R, Bauer, SB, Hendren, WH, Diamond, DA, Retik, AB: Urodynamic findings in children with isolated epispadias. *Journal of Urology*. 162:1172-1175, 1999.
20. Gobet, R, Bleakley, J, Cisek, L, **Kaefler, M**, Moses, MA, Fernandez, CA, Peters, CA: Fetal Partial Urethral Obstruction Causes Renal Fibrosis and is Associated with Proteolytic Imbalance. *Journal of Urology*. 162: 854-60, 1999
21. Haberstroh, K, **Kaefler, M**, Retik, AB, Freeman, MR, and Bizios, R: The effects of sustained hydrostatic pressure on select bladder smooth muscle cell functions. *Journal of Urology*. 162, 2114-2118, 1999.
22. **Kaefler, M**, Vemulapalli, S, Freeman, MR: A nontoxic diphtheria toxin analog inhibits neonatal bladder smooth muscle cell proliferation. *Journal of Urology*. 163: 580-584, 2000
23. Curran, M, **Kaefler, M**, Bauer, SB: The hyper-reflexic bladder of childhood: Long term results with conservative management. *Journal of Urology*. 163: 574-577, 2000.
24. **Kaefler, M**, Curran, M, Treves, ST, Bauer, SB, Hendren, WH, Peters, CA, Atala, A, Diamond, DA, and Retik, AB: Sibling reflux in multiple gestation births. *Pediatrics*. 105: 800-804, 2000.

25. ***Backhaus, BO, Kaefer, M**, Engum, SA, Davis, MM: Contralateral testicular metastasis in paratesticular rhabdomyosarcoma. *Journal of Urology*. 164, 2000.
26. Haberstroh, K, **Kaefer, M**, Bizios, R: Inhibition of induced bladder smooth muscle cell hyperplasia using CRM-197. *Journal of Urology*. 164(4):1329-33, 2000.
27. Gehring JE, Cain MP, Casale AJ, **Kaefer M**, Rink RC. Abdominal wall hernia: an uncommon complication of in utero vesicoamniotic shunt placement. *Urology*. 56(2):330, 2000.
28. Leschek, EW, Chan, W, Diamond, D, **Kaefer, M**, Jones, J, Barnes, KM, Cutler, GB: Nodular Leydig cell hyperplasia in a boy with familial male-limited precocious puberty. *Journal of Pediatrics*. 138(6): 949-51. 2001.
29. Donnahoo-Meldrum, KK, Meldrum, D, Hile, K, Yerkes, EB, Ayala, A, **Kaefer, M**: p38MAP kinase mediates renal tubular cell TNF-alpha production and apoptosis during simulated ischemia. *American Journal of Physiology*. 281 (2): C563-570, 2001.
30. Cain MP, Rink RC, Thomas AC, Austin PF, **Kaefer M**, Casale AJ, Symptomatic ureteropelvic junction obstruction in children in the era of prenatal sonography-is there a higher incidence of crossing vessels?. *Urology*.57(2):338-41, 2001.
31. Soker, S, **Kaefer, M**, Johnson, M, Klagsbrun, M, Atala, A, and Freeman, MR: VEGF-mediated autocrine stimulation of prostate tumor cells coincides with progression to a malignant phenotype. *American Journal of Pathology*. 159: 651-659, 2001.
32. Yerkes, EB, Rink, RC, King, S, Cain, MP, **Kaefer, M**, Casale, AJ: Tap water and the Malone antegrade continence enema: a safe combination? *Journal of Urology*. 166(4):1476-8, 2001.
33. Haberstroh, KM, **Kaefer, M**, DePaola, N, Frommer, SA, Bizios, R: A novel in vitro system for the simultaneous exposure of bladder smooth muscle cells to mechanical strain and sustained hydrostatic pressure. *Journal of Biomechanical Engineering*. 124:208-213, April, 2002.
34. ***Gitlin, J, Kaefer, M**,: Congenital mid-ureteral stricture presenting as prenatal hydronephrosis. *Journal of Urology* 168 (3): 1154-5, September, 2002.
35. Cain, MP, Casale, AJ, Kaefer, M, Yerkes, EB, Rink, RC: Percutaneous cystolithotomy in the pediatric augmented bladder. *Journal of Urology*, 168 (4) 1881-2, October, 2002.
36. ***Backhaus, BO, Kaefer, M**, Yerkes, E, Haberstroh, K, Hile, K, Rink, RC, Casale, A, Cain, MP, Bizios, R: Alterations in the molecular determinants of bladder compliance at hydrostatic pressures below 40 cm H2O. *Journal of Urology*. 168 (6) : 2600-2604. December 2002.
37. Cain, MP, Rink, RC, Yerkes, EB, **Kaefer, M**, Casale, AJ: Long-term follow-up and outcome of continent catheterizable vesicostomy using rink modification. *Journal of Urology*. 168 (6): 2583-2585. December, 2002.

38. Yerkes, EB, Cain, MP, King, S, Brei, T, **Kaefer, M**, Casale, AJ, Rink, RC: The Malone antegrade continence enema procedure: quality of life and family perspective. *Journal of Urology*. 169 (1): 320-3, January 2003.
39. Herndon, CD, Rink, RC, Shaw, MB, Simmons, GR, Cain, MP, **Kaefer, M**, Casale, AJ: The Indiana experience with artificial urinary sphincters in children and adults. *Journal of Urology*, 169 (2): 650-4; February 2003.
40. ***Melchior, D**, Packer, CS, Johnson, TC, **Kaefer, M**: DMSO: Does it Change the Functional Properties of the Bladder Wall? *Journal of Urology*, 170 (1): 253-258, July, 2003.
41. Diamond, D, Kaefer, M: Neonatal Scrotal Hematoma: mimicker of neonatal testicular torsion. *British Journal of Urology* (in press)
42. Cain, MP, Soergel, T, **Kaefer, M**, Gitlin, J, Casale, AJ, Rink, RC: Complications of small intestinal Submucosa (SIS) for corporal grafting in cases of penoscrotal hypospadias. *Journal of Urology* (in press)
43. ***Haddad, N**, Vance, GH, Eugster, EA, Davis, MM, **Kaefer, M**: Turner Syndrome (45,X) with Clitoromegaly. *Journal of Urology*, (in press)
44. **Kaefer, M**, Rink, RC, Casale, AJ, Cain, MP: Stomal stenosis: appendicovesicostomy vs. appendicocecostomy. *Urology* (Submitted and Revised)
45. **Kaefer, M**, Rink, RC, Cain, MP, Casale, AJ: Stomal stenosis: is ileum the ideal organ for efferent limb construction? *Journal of Urology*. (Submitted and Revised)
46. ***Backhaus, BO**, **Kaefer, M**, Rink, RC, Banks, K, Casale, A, Cain, MP: Muscarinic receptor antagonists inhibits bladder smooth muscle cell proliferation in vitro. *Journal of Urology*. (Submitted and Revised)
47. ***Yerkes, E**, **Kaefer, M**, Backhaus, BO, Rink, RC, Cain, MP, Casale, AJ, Haberstroh, K: Determining the Hydrostatic Threshold For Pressure Damage to The Detrusor: Bladder Deterioration at Pressures of 20 cm H₂O. Under Editorial Review, *Journal of Urology*.
48. **Kaefer, M**, Hwang, J, Rink, RC, Cain, MP, Casale, AJ: Augmentation cystoplasty with acellular dermal matrix (Alloderm). Under Editorial Review, *Urology*.
49. Long, JM, **Kaefer, M**, Packer, CS: In search of NANC neurotransmitters in rat bladder. Under Editorial Review, *Journal of Urology*

Publications (Non-Refereed):

1. Newman, D, **Kaefer, M** : Pediatric ESWL: suitability hinges on long-term renal effects. *Contemporary Urology*, 1993

2. **Kaefler, M**, Raab, G, Shepard, J, Klagsbrun, M, and Freeman, MR: Heparin-binding epidermal growth factor-like growth factor (HB-EGF) is the in vivo target for diphtheria toxin (DT) mediated tumor ablation in a metastatic prostate cancer model. Surgical Forum, September, 1996
3. **Kaefler, M**, Peters, CA: The assessment of bladder outlet obstruction in children. Contemporary Urology, 1997
4. **Kaefler, M**, Retik, AB: The Mitrofanoff principle in continent urinary reconstruction. Urologic Clinics of North America 24 (4): 1997
5. **Kaefler, M**, Rink, RC: Genitourinary Rhabdomyosarcoma. Urologic Clinics of North America. 27, 471-487, 2000
6. **Kaefler, M**: Intersexuality: Diagnosis and Management. Guest Editor 23: 5 , 2000
7. **Kaefler, M**: 45,X/46,XY mosaicism: a spectrum of phenotypic expression and management. Dialogues in Pediatric Urology. 23: 6, 2000
8. **Kaefler, M**: Monograph for Prevention and Treatment of the Neurogenic Bladder. Workshop on Neurogenic Bladder. Indian Meeting on the Treatment of Myelomeningocele. New Delhi, India. 2001
9. **Kaefler, M**: Prophylactic Treatment of the High Risk Neurogenic Bladder in Newborns with Myelomeningocele. Dialogues in Pediatric Urology. 2001.
10. **Kaefler, M**: Lower Urinary Tract Reconstruction at Riley Hospital for Children. Dialogues in Pediatric Urology, 2002

Book Chapters:

1. Keating, M, **Kaefler, M**: Management of hypospadias and circumcision
In: Clinical Urology. Krane, RJ, Siroky, M, Fitzpatrick (eds), J.B. Lippincott Co. Philadelphia, Pennsylvania. 1994
2. **Kaefler, M**, Retik, AB: Rhabdomyosarcoma of the Pelvis and Paratesticular Structures. In : Urologic Oncology. Oesterling, J, Richie, J (eds), W.B Saunders, Philadelphia, Pennsylvania, 1997
3. Rowland, R, Baniel, J, **Kaefler, M**: Ileocecal reservoir and neobladder.
In: Reconstructive Urologic Surgery. Libertino, J (ed) Mosby-Year Book, Inc., St. Louis, Missouri. 1997
4. **Kaefler, M**, Bauer, SB: The surgical correction of incontinence in myelodysplastic children. In: Urologic surgery in infants and children. King, L (ed), W.B. Saunders Company, Philadelphia, Pennsylvania., 1998

5. **Kaefer, M**, Diamond, DA: Vesicoureteral Reflux. In: Pediatric Urology Practice. Gonzales, E, Bauer, SB (eds) Lippincott-Raven Publishers, Philadelphia, Pennsylvania. 1998
6. Rink, RC, **Kaefer, M**: Surgical Management of Intersexuality, Cloacal Malformation, and other Abnormalities of the Genitalia in Girls. In : Campbell's Urology (8th edition). Walsh, PC, Retik, AB, Vaughan, D, Wein, A (eds), W.B Saunders, Philadelphia, Pennsylvania, 2002.
7. Kaefer, M: Cryptorchidism. In Pediatric Endocrinology: mechanisms, manifestations, and management. Pescovitz, OH, Eugster, E (eds), Lippincott Williams & Wilkins, Philadelphia, Pennsylvania, 2003 (in press)

Abstracts Presented:

1. Lee, C, **Kaefer, M**, Zhao, Z: Demonstration of the Role of Prostate-Specific Antigen in Semen Liquefaction by Two-Dimensional Electrophoresis. American Urological Association, New York, New York, 1987.
2. **Kaefer, M**, Adams, MC, Rink, RC, Keating, MA: Genitourinary Neurofibromatosis: Algorithm For Management. American Urological Association, San Antonio, Texas, 1993.
3. **Kaefer, M**, Keating, MA, Adams, MC, Rink, RC: Posterior urethral valves, pressure pop-offs and bladder function. North Central Section, American Urological Association, Milwaukee, Wisconsin, 1993.
4. **Kaefer, M**, Rowland, RG, Hollensbe, DW: Technique of The Indiana Stapled Neobladder. North Central Section, American Urological Association, Milwaukee, Wisconsin, 1993.
5. **Kaefer, M**, Keating, MA, Adams, MC, Rink, RC: Posterior urethral valves, pressure pop-offs and bladder function. American Academy of Pediatrics, Dallas, Texas, 1994.
6. **Kaefer, M**, Audia, JE, Bruchovsky, N, Goode, RL, Hsiao, KC, Krushinski, JH, Lee, C, Steidle, CP, Sutkowski, DM, Neubauer, BL: Characterization of type I 5 alpha-reductase activity in DU145 human prostatic adenocarcinoma cells. North Central Section, American Urological Association, Boca Raton, Florida, 1994.
7. Jones, J., **Kaefer, M.**, Straub, M., Kesler, K., Donohue, J. Combination Modality Treatment Strategy for Extragenital Germ Cell Tumors. American Urological Association, San Francisco, California, 1994.
8. **Kaefer, M**, Audia, JE, Bruchovsky, N, Goode, RL, Hsiao, KC, Krushinski, JH, Lee, C, Steidle, CP, Sutkowski, DM, Neubauer, BL: Characterization of type-I 5 alpha-reductase activity in DU145 human prostatic adenocarcinoma cells. Society for Basic Urologic Research, San Francisco, California, 1994.

9. **Kaefler, M**, McLaughlin, KP, Rink, RC, Adams, MC, Keating, MA: The cuff above: upsizing sphincter cuff to facilitate spontaneous voiding. North Central Section, American Urological Association, Minneapolis, Minnesota, 1995.
10. **Kaefler, M**, McLaughlin, KP, Rink, RC, Adams, MC, Keating, MA: The cuff above: upsizing sphincter cuff to facilitate spontaneous voiding. American Academy of Pediatrics, San Francisco, California, 1995.
11. **Kaefler, M**, Barnewolt, C, Retik, AB, Peters, CA: The sonographic diagnosis of infravesical obstruction in children: evaluation of bladder wall thickness indexed to bladder filling. American Urological Association, Orlando, Florida, 1996.
12. **Kaefler, M**, Tobin, MS, Hendren, WH, Bauer, SB, Peters, CA, Atala, A, Colodny, AH, Mandell, J, and Retik, AB: Continent Urinary Diversion: The children's hospital experience. American Urological Association, Orlando, Florida, 1996.
13. Bleakley, JF, **Kaefler, M**, Peters, CA, Partial bladder obstruction in the fetal sheep produces differential connective tissue and smooth muscle growth. A American Urological Association, Orlando, Florida, 1996.
14. Freeman, MR, Ishikawa, M, Renshaw, AA, Dethlefsen, SM, **Kaefler, M**, Klagsbrun, M: Heparin-binding epidermal growth factor-like growth factor (HB-EGF) is synthesized by smooth muscle cells in the human prostate. American Urological Association, Orlando, Florida, 1996.
15. **Kaefler, M**, Raab, G, Shepard, J, Klagsbrun, M, Freeman, MR: Heparin-binding epidermal growth factor-like growth factor (HB-EGF) is the in vivo target for diphtheria toxin (DT) mediated tumor ablation in a metastatic prostate cancer model. American College of Surgeons, San Francisco, California, 1996.
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26. **Kaefer, M**, Hendren, WH, Bauer, SB, Goldenblat, P, Peters, CA, Atala, A, Retik, AB.: Reservoir calculi: A comparison between reservoirs constructed from stomach and other enteric segments. New England Section, American Urological Association, Boston, Massachusetts, 1997.
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62. **Kaefler, M**, Rink, RC, Casale, AJ, Cain, MP: Stomal stenosis: appendicovesicostomy vs. appendicocecostomy. American Academy of Pediatrics, Chicago, Illinois, 2000.
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66. Backhaus, BO, **Kaefler, M**, Koch, MO, Beck, SDW: CRM 197 inhibition of transitional cell carcinoma: a possible HB-EGF mediated strategy for the intravesical treatment of superficial bladder cancer. North Central Section, American Urological Association, Phoenix, Arizona, 2000.
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83. **Kaefer, M**, Rink, RC, Casale, AJ, Cain, MP: Stomal stenosis: appendicovesicostomy vs. appendicocecostomy. American Urological Association, Anaheim, California, 2001.
84. Meldrum, K, Hile, K, **Kaefer, M**, Haberstroh, K: The Role of TNF-a? in Renal Tubular Cell Damage Following Exposure to Pathological Conditions In Vitro. Summer Bioengineering Conference, Snowbird, Utah, 2001.
85. Long, J, Melchior, H, Packer, CS, **Kaefer, M**: Augmentation Cystoplasty and Neural Control of Bladder Muscle. Summer Seed Student Poster Presentation. Indianapolis, Indiana, 2001.
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88. Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**, Yerkes, EB: Percutaneous stone extraction in the pediatric augmented bladder. American Academy of Pediatrics, San Francisco, California, 2001.
89. Casale, AJ, Cain, MP, **Kaefer, M**, Yerkes, EB, Rink, RC: The use of Mineral Oil administered through an antegrade stoma in the management of chronic constipation. American Academy of Pediatrics, San Francisco, California, 2001.
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91. Melchior, D, Packer, CS, Johnson, TC, **Kaefer, M**: DMSO: Does it Change the Functional Properties of the Bladder Wall? European Association of Urology, Birmingham, England, 2002. (Best poster presentation)
92. Melchior, D, Hwang, J, Packer, CS, Johnson, TC, Hile, K, **Kaefer, M**: Bladder Augmentation with a Dermal Biomatrix. European Association of Urology, Birmingham, England, 2002.
93. Melchior, D, Packer, CS, Johnson, TC, **Kaefer, M**: DMSO: Does it Change the Functional Properties of the Bladder Wall? European Society for Pediatric Urology, Budapest, Hungary, 2002.

94. Gitlin, J, Rink, RC, King, S, Herndon, CD, Casale, AJ, Cain, MP, Kaefer, M: Conception, pregnancy, and delivery in patients with augmented bladder European Society for Pediatric Urology, Budapest, Hungary, 2002.
95. Melchior, D, Hile, K, Rink, RC, Cain, MP, Casale, AJ, **Kaefer, M**: Proliferative effect of neurotransmitters on human bladder smooth muscle cells. European Society for Pediatric Urology, Budapest, Hungary, 2002.
96. Gitlin, J, Rink, RC, King, S, Herndon, CD, Casale, AJ, Cain, MP, **Kaefer, M**: A 22-year follow-up of complications with the AUS in children and young adults. European Society for Pediatric Urology, Budapest, Hungary, 2002.
97. Melchior, D, Hwang, J, Packer, CS, Johnson, TC, Hile, K, **Kaefer, M**: Bladder Augmentation with a Dermal Biomatrix. European Society for Pediatric Urology, Budapest, Hungary, 2002.
98. Gitlin, J, Rink, RC, Herndon, CD, Casale, AJ, Cain, MP, **Kaefer, M**: The extravesical catheterizable channel: a novel technique. European Society for Pediatric Urology, Budapest, Hungary, 2002.
99. Melchior, D, Hwang, J, Packer, CS, Johnson, TC, Hile, K, **Kaefer, M**: Bladder Augmentation with a Dermal Biomatrix. American Urological Association, Orlando, Florida, 2002. (1st Prize Research)
100. Patterson, R, **Kaefer, M**, Shalhav, A: Laparoscopic bladder augmentation and Monti Channel Creation. American Urological Association, Orlando, Florida, 2002.
101. Melchior, D, Packer, CS, Johnson, TC, **Kaefer, M**: DMSO: Does it Change the Functional Properties of the Bladder Wall? American Urological Association, Orlando, Florida, 2002.
102. Gitlin, J, Rink, RC, King, S, Herndon, CD, Casale, AJ, Cain, MP, **Kaefer, M**: Conception, pregnancy, and delivery in patients with augmented bladder. American Urological Association, Orlando, Florida, 2002.
103. Patterson, R, **Kaefer, M**, Shalhav, A: Laparoscopic bladder augmentation and Monti Channel Creation. World Congress of Endourology, Genoa, Italy, 2002.
104. Gitlin, J, Rink, RC, Cain, MP, Lawrence, P, Casale, AJ, **Kaefer, M.**, Rink, RC: The Riley Hospital Experience with 112 Monti Catheterizable Channels. American Academy of Pediatrics, Boston, Massachusetts, October, 2002.
105. Herndon, CD, Rink, RC, Shaw, MB, Cain, MP, **Kaefer, M**, Casale, AJ: Experience with non-cycled artificial urinary sphincters and catheterizable channels. American Academy of Pediatrics, Boston, Massachusetts, October, 2002.
106. Shaw, MB, Rink, RC, **Kaefer, M**, Cain, MP, Casale, AJ: Continence in classic bladder exstrophy. American Academy of Pediatrics, Boston, Massachusetts, October, 2002
107. Soergel, TM, Cain, MP, **Kaefer, M**, Gitlin, J, Casale, AJ, Rink, RC: Complications of Small Intestinal Submucosa (SIS) for Corporal grafting in proximal hypospadias. American Academy of Pediatrics, Boston, Massachusetts, October, 2002

108. Herndon, CD, Rink, RC, Cain, MP, **Kaefer, M**, King, S, Casale, AJ: Ileal Augmentation of Gastrocystoplasty: A proven urodynamic benefit. American Academy of Pediatrics, Boston, Massachusetts, October, 2002
109. Melchior, D, Rink, RC, Cain, MP, **Kaefer, M**, Casale, AJ: Primary ureterocele incision versus upper tract surgery – is there a difference in the long run? Presented at the American Academy of Pediatrics, Boston, Massachusetts, October, 2002
110. Herndon, CD, Casale, AJ, Cain, MP, **Kaefer, M**, Rink, RC: Long-term outcome analysis of the surgical treatment of buried penis. Presented at the American Academy of Pediatrics, Boston, Massachusetts, October, 2002
111. Wu, S, Cain, MP, Herndon, CD, **Kaefer, M**, Casale, AJ, Rink, RC: Alpha blocker therapy for children with dysfunctional voiding and urinary retention – a replacement for biofeedback? North Central Section, American Urological Association, Chicago, Illinois, 2003
112. Soergel, T, Cain, MP, **Kaefer, M**, Gitlin, J, Casale, AJ, Rink, RC: Complications involving the use of small intestinal Submucosa (SIS) for corporal grafting in cases of severe hypospadias. North Central Section, American Urological Association, Chicago, Illinois, 2003.
113. Shaw, MB, Rink, RC, **Kaefer, M**, Cain, MP, Casale, AJ: Continence in classic bladder exstrophy. North Central Section, American Urological Association, Chicago, Illinois, 2003.
114. **Kaefer, M**, Haddad, N, Eugster, E: Turner's Syndrome (45,X) with clitoromegally. North Central Section, American Urological Association, Chicago, Illinois, 2003.
115. Long, JM, Kaefer, M, Packer, CS: In search of NANC neurotransmitters in rat bladder. Experimental Biology, San Diego, California, 2003.
116. Backhaus, BO, Shahrezaei, A, Schmidt, D, **Kaefer, M**, Muller, S, Albers, P: What pressure is bad for the kidney: a novel model to evaluate the hydrostatic threshold for renal damage. European Association for Urology, Madrid, Spain, 2003.
117. Melchior, D, Johnson, TC, Packer, CS, **Kaefer, M**: Bladder augmentation using acellular dermis in an allogeneic model. European Society for Pediatric Urology, Madrid, Spain, 2003. (1st Prize: Basic Science Research)
118. Shaw, MB, Rink, RC, **Kaefer, M**, Cain, MP, Casale, AJ: Continence in classic bladder exstrophy with staged repair. European Society for Pediatric Urology, Madrid, Spain, 2003.
119. Herndon, CD, Shaw, MB, Rink, RC, Jung, C, Cain, MP, Casale, AJ, **Kaefer, M**: Heat shock protein 47 is upregulated in bladder outlet obstruction. European Society for Pediatric Urology, Madrid, Spain, 2003.
120. Shaw, MB, Herndon, CD, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: A novel porcine model of bladder outflow obstruction. European Society for Pediatric Urology, Madrid, Spain, 2003.

121. Shaw, MB, Jung, C, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: Heparin-binding epidermal growth factor-like growth factor (HBEGF) induces hypertrophy in human bladder smooth muscle cells. European Society for Pediatric Urology, Madrid, Spain, 2003.
122. **Kaefer, M**, Haddad, N, Eugster, E, Davis, MM, Vance, G: Turner syndrome (45,X) with clitoromegaly. European Society for Pediatric Urology, Madrid, Spain, 2003.
123. Gitlin,, J, Cain, MP, Casale, AJ, **Kaefer, M**, Rink, RC: The Indiana experience with Monti ileovesicostomy. European Society for Pediatric Urology, Madrid, Spain, 2003.
124. Herndon, CD, Rink, RC, Cain, MP, **Kaefer, M**, Shaw, MB, Casale, AJ: Experience with the uncycled artificial urinary sphincter. European Society of Pediatric Urology, Madrid, Spain, 2003.
125. Herndon, CD, Shaw, MB, **Kaefer, M**, Cain, MP, Casale, AJ, Rink, RC: The fate of the normal upper tract after ureteroneocystotomy. European Society for Pediatric Urology, Madrid, Spain, 2003.
126. Cain, MP, Soergel, TM, **Kaefer, M**, Gitlin, J, Casale, AJ, Rink, RC: Complications of small intestinal Submucosa for corporal grafting. European Society for Pediatric Urology, Madrid, Spain, 2003.
127. Yerkes, E, Herndon, CD, Shaw, MB, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: Human acellular dermis as a corporal patch graft. European Society for Pediatric Urology, Madrid, Spain, 2003. (3rd Prize, Basic Science Research)
128. Herndon, CD, Casale, AJ, **Kaefer, M**, Cain, MP, Rink, RC: Long-term outcome analysis of the surgical treatment of buried penis. European Society for Pediatric Urology, Madrid, Spain, 2003.
129. Herndon, CA, Casale, AJ, Benway, B, **Kaefer, M**, Cain, MP, Rink, RC: Continence in posterior urethral valves patients after 15 years. American Urological Association, Chicago, Illinois, 2003.
130. Yerkes, E, Herndon, A, Shaw, MA, Cain, MP, Casale, AJ, Rink, RC, Davis, MM, **Kaefer, M**: Human acellular dermis as a corporal patch graft. American Urological Association, Chicago, Illinois, 2003.
131. Herndon, CD, Cain, MP, Casale, AJ, Meldrum, K, **Kaefer, M**, Rink, RC: The colon flap and appendiceal cecal extention: two alternatives for a mace channel with an absent or short appendix. American Urological Association, Chicago, Illinois, 2003.
132. Shaw, MB, Herndon, CA, Jung C, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: Expression of heparin-binding epidermal growth factor-like growth factor (HBEGF) is up-regulated by elevated hydrostatic pressure in human bladder smooth muscle and interstitial cells. American Urological Association, Chicago, Illinois, 2003.
133. Yerkes, E, Herndon, CD, Shaw, MB, Davis, MM, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: Porcine acellular dermis for penile corporal grafting. British Association of Pediatric Surgeons, Estoril, Portugal, July, 2003

134. Shaw, MB, Herndon, CD, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: A fixed outlet resistance of only 10 cm H₂O is injurious to the bladder. American Academy of Pediatrics. New Orleans, Louisiana, 2003
135. Shaw, MB, Cain, MP, Casale, AJ, Rink, RC, **Kaefer, M**: Pressures of 20 cm H₂O result in the increased production of Heparin-Binding Epidermal Growth Factor (HBEGF) in human bladder smooth muscle cells. American Academy of Pediatrics. New Orleans, Louisiana, 2003.