

**Raymond Anthony Costabile, MD**

*Professor and Chair of Urology  
Urology Department  
University of Virginia Health System  
Charlottesville, Virginia 22908*

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**E D U C A T I O N**

- 1991 - 1993      **Fellow, Impotence and Infertility**  
University of Virginia Health Sciences Center  
Charlottesville, Virginia
- 1987 - 1991      **Resident - Urology**  
Walter Reed Army Medical Center  
Washington, D.C.
- 1984 - 1985      **Intern - General Surgery**  
Walter Reed Army Medical Center  
Washington, D.C.
- 1980 - 1984      **Doctor of Medicine**  
Georgetown University School of Medicine  
Washington, D.C.
- 1976 - 1980      **Bachelor of Science - Biology/Theology**  
Georgetown University  
Washington, D.C.

**MILITARY EDUCATION**

- 1981              AMEDD Officers Basic Course              Ft. Belvoir, VA
- 1994              AMEDD Officers Advanced Course              Ft. Sam Houston, TX
- 1996              Chemical Combat Casualty Care Course              WRAMC

1996	Medical Effects of Ionizing Radiation Course	Ft. Belvoir, VA
1999- 2000	Command and General Staff College	Ft. Leavenworth, KS

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### **H O N O R S / A C T I V I T I E S**

Urology Teaching Award – University of Virginia 2005  
Outstanding Physician Educator Award – Madigan Army Medical Center - 2004  
Joseph N. Baugh Award - USUHS  
Alpha Omega Alpha  
Phi Beta Kappa  
U.S. Army Health Professional Scholarship recipient  
Four Year ROTC Scholarship  
Legion of Merit  
Bronze Star Medal  
Order of Military Medical Merit  
“A” Designate US Army Medical Corps  
Meritorious Service Medal with Oak Leaf Cluster  
Army Commendation Medal with Oak Leaf Cluster  
Army Achievement Medal  
National Service Defense Medal with Oak Leaf cluster  
Army Reserve Medal  
Global War on Terrorism Medal - deployed  
Overseas Service Ribbon – second award  
Army Service Ribbon  
Combat Service patch  
Superior Unit Citation

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### **A C A D E M I C A P P O I N T M E N T S**

2015 – present	Professor and Chair of Urology Urology Department University of Virginia Health System Charlottesville, VA.
2007 – 2015	Jay Y Gillenwater Professor of Urology Professor Urology Department University of Virginia Health System
2004 – 2007	Jay Y Gillenwater Professor of Urology Associate Professor Urology Department University of Virginia Health System

1999 – 2004	Chief, Urology Service Residency Program Director Madigan Army Medical Center Tacoma, WA
1998 – Present	Associate Professor of Surgery – with tenure 1998 Uniformed Services University Bethesda, MD
1993 - 1999	Attending Surgeon - Urology Service, Department of Surgery Walter Reed Army Medical Center Washington, D.C.
1993 - 1998	Assistant Professor, Department of Surgery Uniformed Services University of Health Sciences (USUHS) Bethesda, MD
1991 - 1993	Clinical Instructor, Department of Urology University of Virginia Health Sciences Center Charlottesville, VA
1988 - 1993	Clinical Instructor, Department of Surgery Uniformed Services University of Health Sciences (USUHS) Bethesda, MD

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### **HOSPITAL AND PROFESSIONAL COMMITTEES**

2006- Present	Member – OR committee
2005 – Present	Member – outpatient surgery committee – UVA
2005 – Present	OR technology assessment committee – UVA
2005 – Present	Member – Buchanan grant selection committee - UVA
2006 - Present	Faculty advisor – UVA Medical Student Urology club
2000 - 2001	President, Society of Government Service Urologists
2002	Selection Committee – Department Clinical Investigation
1998 – 1999	Performance Improvement Council – Chair
1998 – 2004	Treasurer – Society of Government Service Urologists
1994 - Present	Performance Improvement Council - Walter Reed Army Medical Center
1994 - 1995	Continuous Quality Improvement Committee - Walter Reed Army Medical Center
1993 - 1999	QI Coordinator , Urology Service - Walter Reed Army Medical Center
1995 - Present	Treasurer - Uniformed Services Urology Research Group
1993 - 1999	Director Andrology Section, Urology Service
1993 - 1999	Director Military Andrology Research Center

1993 - 1999	Liaison - American Society of Andrology
2004 – Present	Reviewer – Journal of Sexual Medicine
2002 – Present	Reviewer - Prostate
1998 – Present	Reviewer – International Journal of Impotence Research
1991 - Present	Reviewer - Journal of Urology
1991 - Present	Reviewer - Urology
1991 - Present	Reviewer - Fertility and Sterility

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### **M E D I C A L C E R T I F I C A T I O N**

1995	American Board of Urology – Diplomate Recertified 2002
2001 – 2004	Washington Board of Medicine
1988 - 2003	Maryland Board of Medicine
1991 - Present	Virginia Board of Medicine

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### **P R O F E S S I O N A L M E M B E R S H I P S**

American College of Surgeons Oncology Group (ACOSOG)  
American Medical Association (AMA)  
American Urologic Association (AUA)  
Society of Government Service Urologists (SGSU)  
International Urologic Association  
American Society of Andrology (ASA)  
Washington Urologic Society  
International Society for the Study of Women's Sexual Health (ISSWSH)  
Society for the Study of Male Reproduction (SSMR)  
Sexual Medicine Society of North America (SMSNA)  
American Fertility Society (AFS)  
Uniformed Services Urology Research Group (USURG)  
Puget Sound Urological Society  
Virginia Urological Society  
Mid Atlantic section – American Urological Association  
Ablemarle County Medical society

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## **P E R S O N A L**

Born September 3, 1958 in Washington, D.C.

Hobbies: running, skiing, reading, and travel

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## **M I L I T A R Y S E R V I C E**

June 30, 2004	<b>Colonel U.S. Army (Retired)</b>
May 1999 – June 2004	<b>Chief, Urology Service</b> <b>Urology Residency Program Director</b> Madigan Army Medical Center Ft. Lewis, WA
June 1993 - May 1999	<b>Attending Urologist</b> Walter Reed Army Medical Center
July 1991 - June 1993	<b>Fellow, Department of Urology</b> University of Virginia Health Sciences Center
July 1987 - June 1991	<b>Urology Resident</b> Walter Reed Army Medical Center
July 1985 - June 1987	<b>General Medical Officer</b> Ft. Eustis, Virginia
July 1984 - June 1985	<b>Surgical Intern</b> Walter Reed Army Medical Center
Dec 2001 – Aug 2003	<b>Commander</b> 47 <sup>th</sup> Combat Support Hospital – Deployed OPERATION IRAQI FREEDOM – Feb-Sep 2003
May 1996 - May 1999	<b>Chief of Surgery</b> 85 <sup>th</sup> General Hospital

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## **P U B L I C A T I O N S**

### **PEER REVIEWED PUBLICATIONS**

Broderick, G., **Costabile, RA**, Kloner, RA, Rosen, RC, and Sadovsky, R. Evolving Strategies in ED Management; Focus on a Novel Dosing Regimen, Renal and Urology News (S), Mar 2007.

**Costabile RA**, and Steers, WD, How Can We Best Characterize the Relationship Between BPH and LUTS?, J Sexual Med, 2006;3:676-681.

Broderick, G., **Costabile, RA**, Kloner, RA, Rosen, RC, and Sadovsky, R. Evolving Strategies in ED Management; Focus on a Novel Dosing Regimen, The Journal of Sexual Medicine, Vol 4(S), 2007, pp 53-58.

Heiman J.R., Gittelman, M., **Costabile R.A.**, Guay, A., Friedman, A. Heard-Davison, A., Peterson, C., Dietrich, J., and Stephens, D., Topical Alprostadil (PGE1) for the Treatment of Female Sexual Arousal Disorder: In-Clinic Evaluation of Safety and Efficacy, J Psychosom Obstet Gyn Mar 2006; 27(1) 31-41.

**IF 1.058**

**Costabile, R.A.** Topical Alprostadil for the Treatment of Female Sexual Dysfunction, Womens Health, Women's Health, May 2006, Vol. 2, No. 3, 331-340.

**IF 0.897**

Rhee, Jonathon, **Costabile RA** and Piesman M, Acute Bacterial Prostatitis and Prostatic Abscess, Emedicine Journal , Oct 2005.

Uribe,P., Peterson, A., Ahuja, A., Lance, RS., and Urology Take home messages – American Urological Association updates 2005 (français), Societe Francophone de Medecine Sexuelle, June 2005

Evans,K., and **Costabile RA**, Time to Development of Symptomatic Urinary Calculi in a High Risk Environment, J. Urol, 173, 858-861, Mar 2005.

**IF 3.592**

Evans, K Peterson, A, Ruiz, H, and **Costabile RA**, The Use of Oral Ketoconazole to Prevent Postoperative Erections Following Penile Surgery, Int J. Impot Res.. 19, Feb 2004.  
**IF 2.186**

**Costabile, RA**, Testicular Microlithiasis is Not an Indicator of Testicular Cancer, AUA Today, May 2004.

**Costabile, R.A.** Optimizing Treatment for Diabetes Induced Erectile Dysfunction, J. Urol 170(S) 2/2 S31-34, Aug 2003.  
**IF 3.59** **Cit 7**

Nehra A. Steers WD. Althof SE. Andersson KE. Burnett AL 2nd. **Costabile RA**. Goldstein I. Kloner RA. Lue TF. Morales A. Rosen RC. Shabsigh R. Siroky MB. King L. Third International Conference on the Management of Erectile Dysfunction: Linking Pathophysiology and Therapeutic Response. [Review] J. Urol. 170(2 Pt 2):S3-5, 2003 Aug.  
**IF 3.592** **Cit 2**

Gipson,B., Peterson, A., and **Costabile RA.**, Priapism in a Patient With Hemoglobin C Trait., J. Urol. 2002 Nov; 168(5): 2122.  
**IF 3.592**

**Peterson AC** and Costabile, RA, *Prostatitis and prostatic Abscess*, in E-Medicine, Editor, Jong M. Choe, M.D, 2001

**Costabile, R.A.** and Spevak, M. Etiology of Male Factor Infertility in an Equal Access, No Cost Medical System. Urology Dec 2001, 58 (6) 1021-4.  
**IF 2.139**

Peterson, A, Mcmann, L, Baumann, J., Light, D., and **Costabile. RA**. Prevalence of Testicular Microlithiasis in an Asymptomatic Screening Population, J. Urol. 166 (6) 2061-2064, 2001  
**IF 3.59** **Cit 6**

Anderson, M., Timmon, J., O'Reilly, K., and **Costabile, R.A.** Retroperitoneal Bronchogenic Cyst Mimicking Pheochromocytoma. J. Urol. 166 (4) 1379-1380, 2001.  
**IF 3.592**

Rosin, A., Bauer, J.J., Swanson, S.J., Spevak, M. and **Costabile, R.A.** Changing Trends in Partial Nephrectomy at Walter Reed Army Medical Center, Mil Med;166(5):416-8, 2001.  
**IF 0.371** **Cit 1**

Siegel, T, Moul, JW, Spevak, M and **Costabile, R.A.** The Development of Erectile Dysfunction in Men With Prostate Cancer, J. Urol 165 (2) 430, Feb 2001.  
**IF 3.592** **Cit 17**

**Costabile RA** Cancer and Male Sexual Function, Oncology 14 (2), 195, 2000.  
**IF 1.985**

**Costabile, RA.** Alprostadil for the Treatment of Erectile Dysfunction. Expert Opinion of Investigational Drugs. Vol. 8 (6) 877, June 1999.  
**IF 3.267**

**Costabile, RA** Transurethral Therapy for the Treatment of Erectile Dysfunction: Infant or Dinosaur. Molecular Urology Vol 3 (2), 135, 1999.

**Costabile, RA,** Schlegel, P., Belker, A., Lipschultz, L., Park, D., and Spevak, M. Urologic Microsurgery: Vasovasostomy and vasoepididymostomy. AUA Update Series Vol 18, # 36, 281-288, 1999.

**Costabile, RA** and Spevak M, Trazodone is Not Effective Therapy for Erectile dysfunction. J. Urol 161 (1) May 1999.  
**IF 3.592** **Cit 4**

**Costabile R.** Et. al. The Use of Transurethral Alprostadil in Patients with Erectile Dysfunction Following Radical Prostatectomy. J Urol 160 (4) 1325, Oct 1998.  
**IF 3.592** **Cit 11**

**Costabile, R.** Successful Treatment of Stutter Priapism with an Antiandrogen. Techniques in Urology, Vol 4 (3) 167, Sep 1998.  
**Cit 1**

Gibbons, M., Lukens, M., Odonell, S., and **Costabile, R.** Treatment of a Ureteral - Iliac Artery Fistula with an Endovascular Graft. J Urol. 159 (6) 2083, June 1998.  
**IF 3.592** **Cit 2**

**Costabile, R.** and Spevak, M. Cancer and Male Factor Infertility. Oncology 12:(4), 557-562, April 1998.  
**IF 1.985** **Cit 2**

Bettencourt, M., Spevak, M., and **Costabile R.** The Effects of Human Chorionic Gonadotropin on Methotrexate Concentration in the Rat Testis. J Urol. 158, 1581-1584, October, 1997.  
**IF 3.592**

Preston D., Moul J., Spevak, M., and **Costabile R.** Intracranial Metastatic Adenocarcinoma of the Prostate Presenting as Visual Disturbance. Techniques Urol 3:(1), 51-53, 1997.

**Costabile, R,** Infertility, Is There Anything We Can Do About It? J Urol. 157:(1) 158, 1997.  
**IF 3.592**



**Costabile R**, Is Cryptorchidism a Treatable Cause of Male Factor Infertility? Dial Ped Urol 20:(30), Mar 1997.

Nathan, P and the MUSE Study Group. Treatment of Men with Erectile Dysfunction with Transurethral Alprostadil. NEJM, 336:(1). 1-7, Jan 1997.

Bettencourt, M., and **Costabile, R.**, Penile Denudation after Adult Circumcision. J. Urol., July, 1996.

**IF 3.592** **Cit 1**

Morgan, T., and **Costabile, R.**, Clear Cell Adenocarcinoma of the Pelvis in a 14 Year-Old Male. J. Urol., May, 1996.

**IF 3.592**

Douglas, T., and **Costabile, R.**, Orchidometry, Does the Testis Measure Up? Contemp Urology, 8:(1), 39 - 46, Jan, 1996

Lance, R., Albo, M., **Costabile, R.**, and Steers, W. Oral Trazodone as Empirical Therapy for Erectile Dysfunction: A Retrospective Review. Urology. July, 1995.

**IF 2.139** **Cit 8**

Bauer, J., Sesterhenn, I., and **Costabile, R.** Myxoid Liposarcoma of the Scrotal Wall. J. Urol. 153(6): 138-9; June, 1995.

**IF 3.592** **Cit 1**

**Costabile, R.** Surgical Techniques for Male Factor Infertility. J. Urol. 153(4): 1159; April, 1995.

**IF 3.592**

**Costabile, R.**, Choyke, P., Frank, J. Variability of Ischemia During Spermatic Cord Torsion in the Rat. J. Urol. 151(4): 1070-2; April, 1994.

**IF 3.592** **Cit 4**

Sawchuk, T., **Costabile, R.A.**, and Howards, S. Spermatic Cord Torsion in an Infant Receiving Human Chorionic Gonadotropin. J. Urol. 150(4): 1212-3; October, 1993.

**IF 3.592**

**Costabile, R.A.** The Effects of Cancer and Cancer Therapy on Male Reproductive Function. J. Urol. 149 (5 Pt. 2): 1327-30; May, 1993.

**IF 3.592** **Cit 2**

**Costabile, R.A.**, Choyke, P., Frank, J. et. al. Dynamic Enhanced Magnetic Resonance Imaging of Testicular Perfusion in the Rat. J. Urol. 149(5): 1195-7; May, 1993.

**IF 3.592** **Cit 3**

**Costabile, R.A.**, and Skoog, S. Testicular Volume Assessment in the Adolescent with a Varicocele. J. Urol. 147(5): 1348-50; May, 1992.

**IF 3.592**

**Cit 10**

Maggio, M., **Costabile, R.A.**, and Foley, J. Endoscopically Controlled Placement of Urethrovessical Anastomotic Sutures After Radical Retropubic Prostatectomy. J. Urol. 147(3 Pt. 2): 903-4; May, 1992.

**IF 3.592**

**Cit 2**

Nicely, E., **Costabile, R.A.**, and Moul, J. Rupture of the Deep Dorsal Vein of the Penis During Sexual Intercourse. J. Urol. 147(1): 150-1; January, 1992.

**IF 3.592**

**Cit 12**

**Costabile, R.A.**, Hahn, M. and McLeod, D. Chronic Orchialgia in the Pain Prone Patient: The Clinical Perspective. J. Urol. 146(6): 1571-4; December, 1991.

**IF 3.592**

**Cit 5**

**Costabile, R.A.** and McLeod, D. Testicular Ultrasound in the Community Hospital. Presented at the Kimbrough Urologic Seminar, Nov. 1986.

### **BOOK CHAPTERS**

**Costabile, RA.** Cancer and Sexual Dysfunction, In Pathophysiology and Treatment of Male Sexual and Reproductive Function, ed. By Kandeel, F Informa Health Care, New York, London pp201-206, 2007..

**Costabile RA.** Changes in Sexual Function with Aging, Cialis website article 2005.

**Costabile, RA.** Radiofrequency Ablation of Solid Renal Masses, eds Ellis, Curley and Tanabe, Springer-Verlag, New York, Ellis L, Curley,S. and Tanabe, K. eds. 185-192, 2004.

Moul, Judd, **Costabile, Raymond**, and Thrasher, James. Malignant Tumors of the Urogenital Tract. Rakel: Conn's Current Therapy 1999. W.B.Saunders, Philadelphia, PA.

**Costabile, R.A.**, et. al. Scrotal Anatomy, Impotence and Infertility. Lawyers Medical Cyclopedia; The Michie Co., Charlottesville, VA, 1991.

**Costabile, R.A.**, and Howards, S. Surgical Treatment of Varicoceles in Reconstructive Surgery of the External Genitalia.

**Costabile, R.A.**, and Spoon, D. Pheromones in the Blue Crab, C.sapidus, Biology Thesis, Georgetown University Press, May, 1980.

## **AWAITING PUBLICATION**

Five Year Follow up of Asymptomatic Men Found to Have Testicular Microlithiasis, DeCastro, B., Peterson, A and Costabile, . J. Urol (In Press).

How Worrisome is Testicular Microlithiasis?, Costabile RA, Current Opinion in Urology, (In Press).

Epididymitis, Tracy,C., Steers,W and **Costabile, RA**, Urol Clinics N America, (In Press).

Vasovasostomy and Vasoepididymostomy, **Costabile, RA**, in Hinman's Atlas of Urologic Surgery, 3<sup>rd</sup> Edition Elsevier, Philadelphi, PA. (In Press).

Baker, K and **Costabile RA**, Demographics, Stone Characteristics and Treatment of Urinary Calculi at the 47<sup>th</sup> Combat Support Hospital During the First 6 Months of OPERATION IRAQI FREEDOM, Journal of Military Medicine, (In Press).

Copp, H and **Costabile R.**, Extramedullary Hematopoetic Tumor of the Testis and Epididymis, Urology, (In Press).

Tracy, C and **Costabile, R**, The Changing Face of Epididymitis 1965-2005, Urology (In Press).

Althof, S. and the Pfizer Sildenafil Study Group, Impact of Erectile Dysfunction on Confidence, Self-Esteem, and relationship Satisfaction after 9 Months of Sildenafil Citrate Treatment, J Urol, (In Press).

Anderson, M., Peterson, A. and **Costabile RA.**, Progression of a Tumor after Radiofrequency Ablation, Urology. (In press)

Poulton, T, Spevak M. and **Costabile RA** Patency Following Microsurgical Vasovasostomy; A Nomogram for Prediction of Success, J.Urol (In Press).

**Costabile, RA**, Hellstrom,WJG, Pryor,JL, Young, JM, Couloures, KG, Stephens, DE, Peterson,C, Kim, ED, Gleeson, JM, and Gesundheit, N, Safety and Efficacy of a Novel Drug Combination of Alprostadil and Prazosin for the Treatment of Erectile Dysfunction, Urology, (In Press).

**Costabile RA**, Female Sexual Dysfunction, AUA Update Series 2007, (In Press).

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**A B S T R A C T S   A N D   N A T I O N A L   P R E S E N T A T I O N S**

Five Year Follow up of Asymptomatic Men Found to Have Testicular Microlithiasis in a Large Screening Study, AUA Annual meeting. Anaheim, CA, May 23, 2007.

The Changing Face of Epididymitis 1965-2005, Kimbrough Urological Seminar, Savannah, GA, Jan 2006.

Five Year Follow up of Asymptomatic Men Found to Have Testicular Microlithiasis in a Large Screening Study, Kimbrough Urological Seminar, Savannah, GA, Jan 2006.

Progression of Renal Tumors following Radiofrequency Ablation, Kimbrough Urological Seminar, Savannah, GA, Jan 2006.

Topical Alprostadil for the Treatment of Premenopausal Women with Sexual Arousal Disorder, American Urological Society, San Antonio, TX, May 2005.

Topical Alprostadil for the Treatment of Premenopausal Women with Sexual Arousal Disorder, 52<sup>nd</sup> Kimbrough Urological Seminar, Honolulu, HI, Jan 2005.

Timing of the Development of Renal Calculus Disease in a High Risk Environment, 51<sup>st</sup> Kimbrough Urological Seminar, San Antonio TX, Jan 2004.

In Clinic Evaluation of Topical Alprostadil for the Treatment of Female Sexual Arousal Disorder, ISSWSH, Vancouver B.C. Oct 2002.

Radiofrequency Ablation of Solid Renal Masses, Western Section AUA, Kauai HI, Oct 2002.

The Penis and the Dumbell, Western Section AUA, Kauai HI, Oct 2002.

Video Sexual Stimulation in an Evaluation of Pharmacological Treatment of Female Sexual Arousal Disorder, Western Section AUA, Kauai HI, Oct 2002.

Non-Contrast Abdominal Computed Tomography (CT), A Reasonable Alternative for Estimation of Renal Function in Nephrolithiasis, Kimbrough Urological Seminar, Seattle, WA. 2001.

A Pilot Study of Radiofrequency Induced Coagulation Necrosis of Solid Renal Masses, Kimbrough Urological Seminar, Seattle, WA. 2001.

Elevated Serum FAS in Patients with Metastatic Prostate Cancer, Kimbrough Urological Seminar, Seattle, WA. 2001.

The Surgical Treatment of Chronic Testicular Pain, Kimbrough Urological Seminar, Seattle, WA. 2001.

The Significance of “Fractional Visualization” of the Ureters and Collecting System on Intravenous Pyelography, Annual Meeting, American Urological Association, Anaheim, Jun 2001.

Prevalence of Testicular Microlithiasis in an Asymptomatic Screening Population , Annual Meeting, American Urological Association, Anaheim, Jun 2001.

The Use of Oral Ketoconazole to Inhibit Post-Operative Erections in Penile and Urethral Reconstructive Surgery. Annual Meeting, American Urological Association, Anaheim, Jun 2001.

Patency Following Microsurgical Vasovasostomy: A Nomogram for Prediction of Success, Kimbrough Urological Seminar, San Diego, Ca. Jan 2001.

Factors Influencing Successful Pharmacological Treatment of Erectile Dysfunction. Kimbrough Urological Seminar, San Diego, Ca. Jan 2001

Detection of Micrometastatic Tumor Cells in the Peripheral Blood of Prostate Cancer Patients. Kimbrough Urological Seminar, Kimbrough Urological Seminar, San Diego, Ca. Jan 2001.

The Use of Oral Ketoconazole to Inhibit Post-Operative Erections in Penile and Urethral Reconstructive Surgery. Kimbrough Urological Seminar, San Diego, Ca. Jan 2001

Cyclosporine Treatment and the Effect on Post-Vasovasostomy Semen Parameters in the Lewis Rat. Kimbrough Urological Seminar, San Diego, Ca. Jan 2001.

Prevalence of Testicular Microlithiasis in an Asymptomatic Screening Population. Kimbrough Urological Seminar, San Diego, Ca. Jan 2001

Patency Following Microsurgical Vasovasostomy: A Nomogram for Prediction of Success, AUA Western Section Meeting, Palm Desert CA. Nov. 2000.

Safety and Efficacy of a Novel Transurethral Alprostadil/Prazosin Combination for the Treatment of Erectile Dysfunction, AUA Western Section Meeting, Palm Desert CA. Nov 2000.

Detection of Prostate and Bladder Carcinoma Cells in Peripheral Blood, AUA Western Section Meeting, Palm Desert, CA. Nov. 2000.

Durability of Treatment Choice for Post-Prostatectomy Erectile Dysfunction, AUA, Atlanta, May 2000.

Etiology of Male Factor Infertility in an Equal Access, No Cost Medical System, Kimbrough Urological Seminar, San Antonio, TX, Dec 1999.

Does renewed sexual activity increase the risk of cardiac morbidity? A metaanalysis of the experience with MUSE ( Alprostadil)]. Nelson, Robert P.. Barada, James H.. Costabile, Raymond A.. Labasky, Richard F.. Lewis, Ronald W.. Melman, Arnold. Nehra, Ajay. Spivack, Alfred P.. Gesundheit, Neil. [Abstract] Journal of Urology. 161(4S) Supplement:215, April 1999.

Erectile Dysfunction in the Prostate Cancer patient presented AUA, Dallas, TX. May 1999.

Efficacy of Transurethral Alprostadil (MUSE) vs. Transurethral Alprostadil/Prazosin (ALIBRA) in Men with Complete, Organic erectile Dysfunction. Presented AUA. San Diego, CA, June, 1998.

Trazodone is not Effective Therapy for Erectile Dysfunction: The Results of a Placebo Controlled, Double-Blind Study. Presented AUA. San Diego, CA, June, 1998.

Efficacy of Transurethral Alprostadil/Prazosin Bi-mix in Patients with Erectile Dysfunction. Presented AUA Mid Atlantic Section. Hot Springs, VA, Oct. 1997.

Efficacy and Safety of Transurethral Alprostadil in Patients with Erectile Dysfunction Following Radical Prostatectomy. Presented AUA. New Orleans, LA, April, 1997.

Transurethral Alprostadil for Erectile Dysfunction: Effect on Quality of Life. Presented at AUA Mid Atlantic Section. Washington D.C. 1996.

Efficacy and Safety of Transurethral Alprostadil for the Treatment of Erectile Dysfunction. Presented Kimbrough Urologic Seminar. Scottsdale, AZ 1996.

TNF Induced Production of Reactive Oxygen Species in the Rat Testis. Presented at AUA. Orlando, FL, 1996.

Controversies in the Management of Male Factor Infertility, Kimbrough Urologic Seminar, Washington D.C. Nov. 1995.

Trazodone for the Treatment of Erectile Dysfunction, AUA, Las Vegas, NV, 1995.

Dynamic Enhanced Magnetic Resonance Imaging of Testicular Perfusion in the Rat. AUA, San Antonio, TX, 1993.

Male Factor Infertility - Plenary Session AUA, San Antonio, TX, 1993.

Is HCG Effective in the Management of Children with Undescended testis ? ASA meeting, Washington D.C., 1992.

Volumetric Assessment of the Adolescent with a Varicocele, Mid Atlantic Section, AUA, Philadelphia, PA, 1991.

Chronic Orchalgia in the Pain Prone Patient, Joseph Baugh Award, USUHS, Bethesda, MD, 1991.

Scrotal Ultrasound in the Community Hospital, Kimbrough Urologic Seminar, San Antonio, TX, 1986.

## **Invited Lectures**

“Infertility and Sexual Function”, AUA Basic Sciences Course”, Charlottesville, Va. 11 Jun 2007.

“Infertility and the Male”, AUA Board review course, Dallas, TX , 24 Jul 2007.

“Fine Wine or Wrong Time; Infertility in an Older Population Desiring Children”. Program Director, Annual meeting, Society for the Study of Male Reproduction, Anaheim, Ca. 19 May 2007.

Epididymitis and Scrotal Pain”, Student Health, University of Virginia, 2 May, 2007.

“Infertility in an Older Population Desiring Children” American Urological Association (AUA) Mid Atlantic Meeting, Washington DC, 30 Oct 2006.

“Infertility and the Male”, AUA Board review course, Dallas, TX , 23 Jul 2006.

“Infertility and Sexual Function”, AUA Basic Sciences Course”, Charlottesville, Va. 10 Jun 2006.

“An Academic Medical Center on the Battlefield”, Ablemarle County Medical Society, Charlottesville, VA. Sep 2005.

“Infertility and the Male”, AUA Board review course, Dallas, TX , 11 Jun 2005.

“Sexual Function in Men and Women”, American Urological Association Basic Sciences Course, Charlottesville, VA, June 8 2005.

Take Home Messages Plenary Session – Sexual Function – American Urological Association Annual Meeting, San Antonio, TX, May 2005.

“Evaluation and Treatment of Female Sexual Dysfunction”, Grand Rounds – Rockingham Memorial Hospital,

“An Academic Medical Center on the Battlefield”, Virginia Urological Society, Hot Springs VA. Feb 2005.

“Evaluation and Treatment of Female Sexual Dysfunction”, Kimbrough Urological Seminar, Honolulu, HI, Jan 2005.

“Urologists in the Combat Zone; Lessons Learned:”, Kimbrough Urological Seminar, Honolulu, HI, Jan 2005.

“An Academic Medical Center on the Battlefield”, Society of Clinical Urology, Charlottesville, Va. Nov 2004.

“Treating ED in the continuum of care” Lunch and Learn teleconference 18-21 Oct., 2004.

“Cancer and male reproductive and sexual function”, Men’s Health Symposium (course director), AUA Mid Atlantic Section Annual Meeting, Cambridge MD. 3 Oct 2004.

“Infertility and the Male”, AUA Board review course, Dallas, TX , 6 Jun 2004.

“How worrisome is testicular microlithiasis?” plenary session, American Urological Association annual meeting, San Francisco, CA. 10 May 2004.

“Cancer and male reproduction and sexual function” Men’s reproductive health symposium, Uniformed Services University, Bethesda, MD, 20 Mar 2004.

“The history and development of sildenafil”, Yakima valley physicians association, 11 Mar 2004.

“Navigating through the maze of treatment for erectile dysfunction” PRIMED CME conference, Twin cities MN, 5 Mar 2004.

“New developments in the pharmacological treatment of erectile dysfunction” Omak county physicians association, Omak WA, 24 Feb 2004.

“Historical developments in the treatment of erectile dysfunction” South Puget Sound Primary care, Olympia, WA. 18 Feb 2004.

Visiting professorship – Portland OR “New developments in the pharmacological treatment of erectile dysfunction” 10-12 Feb 2004.

Visiting professorship – Harbor medical center – Urology Dept. “ An academic medical center on the battlefield, deployment of the 47<sup>th</sup> Combat Support Hospital in OPERATION IRAQI FREEDOM” 5 Feb 2004.



Visiting professorship – UCLA medical center – Urology Dept. Grand Rounds “ An academic medical center on the battlefield, deployment of the 47<sup>th</sup> Combat Support Hospital in OPERATION IRAQI FREEDOM” 5 Feb 2004.

Visiting professorship – Tripler Medical Center Urology residency, “New developments in the treatment of Priapism”, “Infertility Update:2004” Internal residency Review, 14-17 Dec 2003, Honolulu HI.

“Diabetes Mellitus Induced Erectile Dysfunction”, Honolulu urological society 16 Dec 2003, Honolulu, HI.

“An academic medical center on the battlefield, deployment of the 47<sup>th</sup> Combat Support Hospital in OPERATION IRAQI FREEDOM”, Surgery Dept Grand Rounds, Madigan Army Medical Center, Tacoma, WA. 12 Dec 2003.

“PDE5 inhibition in the treatment of erectile dysfunction”. Western Washington medical society, Spokane, WA 12 nov 2003.

“An academic medical center on the battlefield, deployment of the 47<sup>th</sup> Combat Support Hospital in OPERATION IRAQI FREEDOM” Franciscan Health Care System annual meeting, Tacoma WA. 22 Oct 2003.

DEPLOYED – OPERATION IRAQI FREEDOM – Kuwait/Iraq Feb-Sep 2003.

Interview with Diane Sawyer – “Good Morning America”, Deployment of the 47<sup>th</sup> Combat Support Hospital, 12 Apr 2003.

Interview with Ann Curry – “The Today Show”, Deployment of the 47<sup>th</sup> Combat Support Hospital, 16 Apr 2003.

Interview with John Quinones – “Primetime”, Deployment of the 47<sup>th</sup> Combat Support Hospital, 18 Apr 2003.

Commemoration of the 60<sup>th</sup> Anniversary of the Korean War – Guest speaker, Ft. Lewis, WA. 4 Feb 2003.

“Optimizing the Treatment of Erectile Dysfunction” Eastern WA Urology, Spokane WA. 21 Jan 2003.

“Cardiac safety and the treatment of erectile dysfunction” Eastern WA Internal medicine, Spokane, WA. 13 Nov 2002.

“Cardiac safety and the treatment of erectile dysfunction” Southern WA internal medicine, Pasco, WA. 12 Nov 2002.

Postgraduate Boards review course, Western section American Urological Society, “Penile prostheses: The last resort?”, Kauai, HI. 22 Oct 2002.

“Treatment of Male Sexual Dysfunction”. Family practice resident Grand Rounds, Madigan Army Medical Center, Tacoma WA. 9 Oct 2002.

“Cardiac safety and the treatment of erectile dysfunction” Wenatchee family practice, Yakima, WA. 22 Aug, 2002.

Third annual international conference on the management of erectile dysfunction: linking pathophysiology and therapeutic response, “Optimizing treatment for diabetes mellitus induced erectile dysfunction”, Mclean, VA. 26-27 Jul 2002.

“Safety and efficacy of oral therapy in the treatment of erectile dysfunction”, University of Washington urology resident journal club, Seattle, WA. 24 Jun 2002.

“ The kidney – nature’s filter”, St. Francis Cabrini school, Lakewood, WA 23 May 2002.

“Diabetes and sexual dysfunction”, ADA symposium, Seattle, WA. 13 Apr. 2002.

“New approaches to management of hormone refractory prostate cancer”, Puget Sound Urological Society, Steilacoom, WA. 3 Apr. 2002.

“Safety and efficacy of oral therapy in the treatment of erectile dysfunction”, Seattle medical society, Seattle, WA. 26 Mar 2002.

“Safety and efficacy of oral therapy in the treatment of erectile dysfunction”, Aberdeen primary care, Aberdeen, WA. 20 Mar 2002.

“Safety and efficacy of oral therapy in the treatment of erectile dysfunction”, Olympia, WA. 13 Mar 2002.

“New developments in the treatment of erectile dysfunction; update 2002”, Uniformed Services Urology Research Group, Las Vegas, NV. 8 Mar 2002.

“Cardiac safety and sexual function”, Rockwood clinic primary care, Spokane, WA. 5 Mar 2002.

“Cellular and molecular mechanisms of erectile function”, Tri cities medical society, Pasco, WA. 15 Jan 2002.

“Safety and efficacy of oral therapy in the treatment of erectile dysfunction”, Northwest hospital medical society, Seattle, WA. 12 Jan 2002.

“New treatments for sexual dysfunction” Grand Rounds Fairchild Air Force Medical Center, Spokane, WA. 18 Dec 2001.

“President’s address” 49<sup>th</sup> Kimbrough Urological Seminar, Seattle, WA. 4 Nov. 2001.

“Cardiac safety and the treatment of erectile dysfunction” Eastern WA internal medicine, Yakima, WA. 5 Sep 2001.

“How safe are PDE5 inhibitors for the treatment of erectile dysfunction?”, Internal Medicine resident grand rounds, Madigan Army Medical Center, Tacoma, WA. 30 Aug. 2001.

“How safe are PDE5 inhibitors for the treatment of erectile dysfunction?”, Internal Medicine resident grand rounds, University of Washington, Seattle, WA. 22 Aug. 2001.

“Safety and efficacy of sildenafil” Primary care Associates, Seattle, WA. 13 Jul. 2001.

Visiting professorship – Loma Linda Urology residency and Urology Department, Loma Linda Medical Center, “Cardiac safety and the treatment of erectile dysfunction” Orange County, CA. 1 Jun 2001.

Visiting professorship – Loma Linda Urology residency and Urology Department, Orange County VA medical center, “Cardiac safety and the treatment of erectile dysfunction” Orange County, CA. 1 Jun 2001.

“Cardiac safety and the treatment of erectile dysfunction”, Northwest hospital Grand Rounds, Bellvue, WA. 17 May 2001.

“Surgical Care in a developing nation” Surgery Department Grand Rounds, Madigan Army Medical Center, Tacoma, WA. 11 May 2001.

“The treatment of erectile dysfunction”, Whidbey Island Naval Hospital Grand Rounds, Whidbey Island, WA. 18 Oct 2000.

“Modern advances in the treatment of erectile dysfunction” Bellingham internal medicine associates, Bellingham, WA. 23 Sep 2000.

### Intramural Lectures

“Iatrogenic Ureteral Injury”, Gynecology Grand Rounds, University of Virginia, 9 May 2007.

“Ejaculatory Disturbances”, UVA Medical Student Clinical Correlations Course, Aug, 2006.

“Reproductive Physiology, Campbells Chapter 42, UVA urology resident review. Apr 2006.

“Ejaculatory Disturbances”, UVA Medical Student Clinical Correlations Course, Oct, 2005.

“Androgen Deficiency in the Aging Male”, 11 May, 2005.

“Erectile Dysfunction”, UVA 3rd year medical student clinical connections course, 4 April, 2005.

“Female Sexual Dysfunction”, 17 Nov, 2004.

“Evaluation and non-surgical management of BPH” 8 Mar 2004.

Journal club moderator, 23 Feb 2004.

“Male infertility review”, 5 Jan 2004.

Journal club moderator, 24 Nov 2003.

Deployed OPERATION IRAQI FREEDOM Feb-Sep 2003.

“Complications of stone therapy” 3 Feb 2003.

“Infertility review”, 6 Jan 2003.

“Hormone refractory prostate cancer”, 24 Oct 2002.

“Complications of scrotal surgery”, 26 Aug 2002.

“Campbells textbook review Ch 38” 29 Jul 2002.

“Campbells textbook review Ch 43, 17 Jun. 2002.

“Surgery for male factor infertility”, 25 Mar 2002.

“Campbells textbook review Ch 89”, 25 Feb 2002.

“Endocrine therapy”, 21 Jan 2002.

“Campbells textbook review Ch 72”, 1 Oct 2001.

“Campbells textbook review CH 38”, 13 Aug 2001.

“Genitourinary CT”, 18 Jun 2001.

Journal club moderator, 10 May 2001.

“Use of intestinal segments in GU surgery”, 16 Apr 2001.

“Renovascular hypertension”, 12 Mar 2001.

“Anatomic radical prostatectomy”, 8 Jan 2001.

Journal club moderator 14 Dec 2000.

“Urinary lithiasis”, 24 Jul 2000.

“Surgical management of infertility”, 12 Jun 2000.

Journal club moderator, 13 Apr 2000.

“Urinary tract obstruction, part 2”, 24 Apr 2000.

“Urinary tract obstruction, part 1”, 13 Mar 2000.

“Urinary Ultrasound”, 14 Feb 2000.

“Gillenwater textbook review CH 16”, 24 Jan 2000.

“Campbells textbook review CH 21”, 29 Nov 1999.

“Campbells textbook review CH 38”, 27 Sep 1999.

“Campbells textbook review CHs 41,42”, 30 Aug 1999.

### Clinical Advisory Boards

Lilly/ICOS 2002 – present.

Pfizer 1997 – 2001.

Vivus 1991 – 2004.

Abbott 1999 – 2004.

Bayer 2002-2003

## Clinical Research

### PENDING CLINICAL TRIALS

Boehringer-Ingelhiemer

Flibanserin Phase III clinical trial 511.75: A twenty four week, randomized double-blind placebo controlled efficacy and safety trial of flibanserin 50 milligrams daily in women with hypoactive sexual desire disorder in North America and Europe.

A Multicenter, Double Blind, Randomized Study To Compare the Efficacy and Safety of Levofloxacin 750mg Once Daily for Five Days Versus Ciprofloxacin Twice Daily for Ten Days in the Treatment of Complicated Urinary Tract Infection or Acute Pyelonephritis, Protocol # 783, Raymond A Costabile MD.

A Randomized, Double-Blind Placebo Controlled Dose Comparison Study of the Efficacy and Safety of Lonidamine for the Treatment of Symptomatic Benign Prostatic Hyperplasia; Protocol # TH-CR-203, Raymond A Costabile MD.

A Prospective Randomized Evaluation Comparing Fortaperm To Autologous Fascia AS Suburethral Slings For The Management of Female Stress Urinary Incontinence, Protocol Number XXXX, Raymond A Costabile MD

#3069: A Phase 2 Randomized, Double-Blind, Twelve-Week, Dose-Ranging Efficacy and Safety Study of SCH 446132 (10 mg, 25 mg, 50 mg, 100 mg), Sildenafil Citrate (50 mg) Each vs Placebo in Subjects with Erectile Dysfunction, Protocol Number P02543 Raymond A. Costabile MD.

#3161: A Double-Blinded, Randomized, Evaluation of the Safety and Efficacy of TA-1790 in Subjects with Erectile Dysfunction, Protocol Number TA-05 by Raymond A. Costabile MD.

#3162: A Phase 2 Randomized, Double-Blind, Dose-Ranging Efficacy and Safety Study of SCH 446132 (10 mg, 25 mg, 50 mg), Sildenafil Citrate (50 mg) Each vs. Placebo in Subjects with Erectile Dysfunction, Protocol Number P03704 Raymond A. Costabile MD.

### **Ongoing Protocols:**

Allergan: Expires 01/09/07 \$227,469

HIC #12197- A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-

Group, Dose-Response Study of The Safety and Efficacy of A Single Treatment OF Botox (Botulinum Toxin Type A) Purified Neurotoxin Complex in Patients with Neurogenic Overactive Bladder with Urge Urinary Incontinence.

Novartis: Expires 02/16/07 \$73,186

HIC #11781- A 12-week, randomized, double-blind, placebo-controlled, parallel group, multicenter study to evaluate the efficacy, safety and tolerability of darifenacin (7.5 mg o.d. with voluntary up-titration to 15 mg o.d) in patients aged  $\geq$  65 years with overactive bladder.

HIC #12271- A Phase II, Randomized, Double-blind, Placebo-Controlled, Multi-center Study to Evaluate the Efficacy and Safety of Two Dosing Regimens Of MN-001 in Patients with Interstitial Cystitis

A Multicenter, Double Blind Randomized Placebo Controlled parallel Group Dose Response Study of the Safety and Efficacy of Botox (Botulinum Toxin Type A) Purified Neurotoxin Complex in Patients With Urinary Urge Incontinence Due To Idiopathic Detrusor Overactivity, Protocol 191622, Raymond A Costabile MD.

Lilly: Expires 07/25/06 \$212,000

HIC # 11973- A Randomized, Double-Blind, Parallel-Design, Placebo Controlled Study to Evaluate the Effects of 5mg Tadalafil (IC351, LY450190) and 50mg Sildenafil Administered Once Daily for 6 Months on Visual Function in Healthy Subjects or Subjects with Mild Erectile Dysfunction

Sanofi: Expires 12/29/06

HIC #11125- A Prospective, Observational Registry and Patient Survey of the management of Men with Symptomatic Benign Hyperplasia (BPH): BPH Registry and Patient Survey Protocol L8890.

Pfizer: Expires 08/22/06 \$28,412

HIC# 11476- A Randomized, Double Blind, Placebo Controlled, Four Arm (Placebo, Tolterodine ER, Tamsulosin, and Tolterodine ER Plus Tamsulosin) Study to Evaluate the Clinical Efficacy and Safety of Tolterodine ER 4 MG in Men Who Have Frequency and Urgency, With or Without Urinary Urge Incontinence, With or Without Bladder Outlet Obstruction

#96158: Multi-center Prospective Cohort Study to Evaluate the Safety and Effectiveness of the American Medical Systems (AMS) Ambicor Inflatable Penile Prosthesis by Raymond A. Costabile MD.

#98092: Multicenter Prostate Cancer Database for the Center for Prostate Disease Research (CPDR) with Patterns of Care, Outcomes, and Prognostic Analysis by MAJ Keith J. O'Reilly, MC

#99089: Phase III Randomized, Double-Blind Study of DFMO vs. Placebo in Low Grade Superficial Bladder Cancer by COL Raymond A. Costabile, MC

#201097: A Multicenter, Phase IIb, Four Arm, Dose Finding, Randomized, Placebo-Controlled Study to Determine the Long Term Prostate Cancer Chemoprevention Efficacy and Safety of 20 mg, 40 mg, & 60 mg Daily of GTx-006 in Men with High Grade Prostate Intraepithelial Neoplasia (PIN) by Raymond A. Costabile MD.

#201107: A Phase III, Randomized, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of 10 mg Atrasentan in Men with Metastatic, Hormone-Refractory Prostate Cancer (M00-211) by Raymond A. Costabile MD.

#201113: A Phase III, Extension Study to Evaluate the Safety of 10 mg Atrasentan in Men with Hormone-Refractory Prostate Cancer (M00-258) by Raymond A. Costabile MD.

#201121: A Phase III, Randomized, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of 10 mg Atrasentan in Men with Non-Metastatic, Hormone-Refractory Prostate Cancer (M00-244) by Raymond A Costabile MD.

#202046: A Randomized Trial of Radical Prostatectomy versus Brachytherapy for Patients with T1c or T2a N0 M0 Prostate Cancer by COL Raymond A. Costabile, MC

#202065: Oral Ketoconazole For Prevention Of Postoperative Penile Erection, A Prospective, Randomized, Double Blind Trial by Raymond A. Costabile MD.

#202090: An Open-Label Trial on the Effect of I.V. Zometa 4 mg on Bone Mineral Density in Hormone Sensitive Prostate Cancer Patients with Bone Metastasis, Protocol Number CZOL446EUS24 by Raymond A. Costabile MD.

#202096: A Multicenter, Open-Label Extension, Flexible Dose Escalation Study to Evaluate Self-Esteem and Overall Relationships in Men with Erectile Dysfunction Treated with Viagra (sildenafil citrate) in the United States, (Protocol Number A1481120) by COL Raymond A. Costabile, MC

#202118: Prospective, Double-blinded, Randomized, Crossover Study Comparing the Current Method for Inserting Transurethral Alprostadil (MUSE) with Insertion Following an Application of Either KY or 2% Lidocaine Jelly by CPT Brian J. DeCastro, MC and Raymond A. Costabile MD.

#203020: A Phase II Randomized, Double-Blind Placebo-Controlled Study of the Safety and Efficacy of RTX Topical Solution in Patients with Interstitial Cystitis, Protocol: JIC01 by Raymond A. Costabile MD.



#203037: Health-Related Quality of Life in Patients with Low Risk, Localized Prostate Cancer Randomized to Radical Prostatectomy or Brachytherapy by COL Raymond A. Costabile, MC

#203042: A Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study of the Efficacy and Safety of Dutasteride 0.5 mg Administered Orally Once Daily for Four Years to Reduce the Risk of Biopsy-Detectable Prostate Cancer, Protocol Number ARI40006 by MAJ Keith J. O'Reilly, MC and Raymond A. Costabile MD.

#203043: Prospective, Randomized, Double-Blind, Placebo-Controlled Evaluation of Topical Alprostadil Administered at Home for the Treatment of Premenopausal Women with Female Sexual Arousal Disorder (FSD-08) by Raymond A. Costabile MD.

#203053: A Clinical Trial Evaluating the Safety and Efficacy of ABX-EGF in Patients with Hormone Resistant Prostate Cancer Elevated PSA With or Without Metastasis, Protocol Number ABX-0310 by MAJ Keith J. O'Reilly, MC and Raymond A. Costabile MD.

#203068: Repeat TURP and the Recurrence of LUTS After Initial Surgery: Are There Identifiable Variables Predictive of Which Patients are More Likely to Require a Repeat TURP? by CPT Mark I. Anderson, MC and Raymond A. Costabile MD.

#203081: Study of the Safety and Effectiveness of the Mentor Two-Piece Inflatable Penile Prosthesis, Protocol Number U108-802-4 by Raymond A.

#203086: An Open-Label Study to Evaluate the Efficacy and Safety of Tadalafil Administered "On Demand" to Men of Various Populations with Erectile Dysfunction by Raymond A. Costabile MD.

#203112: Incidence of Inguinal Vas Deferens Obstruction Secondary to Prior Surgery in Fertile Men Undergoing Elective Vasectomy by CPT Jack R. Walter, MC and Raymond A. Costabile MD.

#204004: A Double Blind, Placebo-Controlled, Multicenter, Randomized, Phase-3 Study of Epoetin Alfa in the Treatment of Anemia in Cancer Subjects Not Currently Treated with Chemotherapy or Radiotherapy by MAJ Keith J. O'Reilly, MC and Raymond A. Costabile MD.

#204005: A Phase III, Randomized, Double-Blind, Placebo-Controlled Trial Evaluating the Ability of Risedronate to Prevent Skeletal Related Events in Patients with Metastatic Prostate Cancer Commencing Hormonal Therapy Protocol # GU02-41 by Raymond A. Costabile MD.

#204025: An Evaluation of Semen Characteristics after 40 Weeks Daily Dosing with 20 mg Tadalafil by COL Raymond A. Costabile, MC

#204032: Prospective, Observational Registry and Patient Survey of the Management of Men with Symptomatic Benign Prostatic Hyperplasia (BPH): BPH Registry and Patient Survey

Protocol #L8890 by MAJ Keith J. O'Reilly, MC, Miark Ian Anderson MD and Raymond A. Costabile MD.

**Completed or Terminated Protocols:**

#99044: A Phase II, Double-Blind, Randomized, Placebo-Controlled, Crossover Study of the Safety and Efficacy of Dapoxetine HCl in the Treatment of Premature Ejaculation by MAJ Sunil K. Ahuja, and Raymond A. Costabile MD.

#99048: Screening Protocol for Identification of Patients with Erectile Dysfunction for Participation in Schering Study P00186 (Twelve-Week Double-Blind Treatment of Oral Phentolamine, Oral Sildenafil Citrate vs Placebo) by MAJ Sunil K. Ahuja, and Raymond A. Costabile MD.

#99054: A Double-Blind, Twelve-Week Comparative Efficacy and Safety Study of Oral Phentolamine Mesylate, Oral Sildenafil Citrate Vs. Placebo in Patients with Erectile Dysfunction by Raymond A. Costabile MD.

#99080: Phase III Randomized Study of a Single Adjunctive Instillation of Intravesical Valrubicin versus No Adjunctive Therapy Immediately Following Transurethral Resection in Patients with Multiple Superficial (Ta/T1) Bladder Tumors by COL Raymond A. Costabile, MC

#99090: A Randomized Double-Blind Placebo-Controlled Phase III Trial Evaluating Zoledronate Plus Standard Therapy versus Placebo Plus Standard Therapy in Patients with Recurrent Carcinoma of the Prostate Who Are Asymptomatic with Castrate Levels of Testosterone and Have Rising PSA Levels Without Radiologically-evident Metastatic Disease by COL Raymond A. Costabile, MC

#99091: A National Phase II Trial of Intron Interferon (Alpha 2b) Plus BCG for Treatment of Superficial Bladder Cancer by COL Raymond A. Costabile, MC

#99096: Macroscopic and Microscopic Anatomy of the Arterial Supply to the Human Vas Deferens by COL Raymond A. Costabile, MC

#99101: A Six-Month, Two-Part, Sequential, Open-Label, Fixed-Dose Study to Evaluate the Safety, Tolerance, Pharmacokinetics and Endocrine Efficacy of Monthly Doses of LA-2500 in Patients with Advanced Prostate Cancer by COL Raymond A. Costabile, MC

#200019: A Pilot Study of Radiofrequency Induced Coagulation Necrosis of Solid Renal Masses by COL Raymond A. Costabile, MC

#200045: A Pilot Phase II, Placebo-controlled, Double-blind Study of KMD-3213 in patients with the Signs and Symptoms of Benign Prostatic Hyperplasia (BPH) Protocol #KMD-3213-US021-99 by COL Raymond A. Costabile, MC

#200064: The Incidence of Testicular Microlithiasis in an Asymptomatic Screening Population by MAJ Andrew C. Peterson, MC and Raymond A. Costabile MD.

#200087: Phase II Dose-ranging Study of HuKS-IL2 in Patients with Hormone Refractory Prostate Carcinoma by COL Raymond A. Costabile, MC

#200103: A Six-month, Open-label, Fixed-dose Study to Evaluate the Safety, Tolerance, Pharmacokinetics and Endocrine Efficacy of Two Doses of LA-2550 22.5 mg in Patients with Advanced Prostate Cancer by COL Raymond A. Costabile, MC

#200111: A Phase III Crossover Study Evaluating the Efficacy and Safety of Uprima (Apomorphine HCl Tablets) Sublingual (2, 3, 4 mg) in Combination with Sildenafil Citrate (25 or 50 mg) in the Treatment of Male Erectile Dysfunction (#M00-181) by COL Raymond A. Costabile, MC

#200112: A Phase III, Randomized, Multicenter, Placebo-Controlled, Double-Blind, Clinical Trial to Study the Efficacy and Safety of CyPat (Cyproterone Acetate [CA]) for the Treatment of Hot Flashes Following Surgical or Chemical Castration of Prostate Cancer Patients and Its Impact on the Quality of Life in these Patients, Amendment #1 to PCA-301A by COL Raymond A. Costabile, MC

#200140: A Randomized, Multicenter, Phase III Trial Evaluating the Efficacy and Safety of BCI-ImmuneActivator (KLH) versus Adriamycin in BCG Refractory or Intolerant Patients with Carcinoma in situ with or without Resected Superficial Papillary Bladder Cancer by COL Raymond A. Costabile, MC

#200141: A Study Evaluating the Efficacy, Safety, and Tolerability of L-377202 in Bidimensionally Measurable, Androgen-Independent Prostate Cancer (Protocol No. 004-00) by COL Raymond A. Costabile, MC

#201017: A Retrospective Review of the Use of Ketoconazole for the Prevention of Postoperative Penile Erections in Penile Reconstructive Surgery by MAJ Andrew C. Peterson, MC and Raymond A. Costabile MD.

#201044: In-Clinic Evaluation of the Safety and Efficacy of Topical Alprostadil (PGE1) for the Treatment of Female Sexual Arousal Disorder (Vivus Protocol: FSD-02) by COL Raymond A. Costabile, MC

#201048: An Eight-Month, Open-Label, Fixed-Dose Study to Evaluate the Safety Tolerance, Pharmacokinetics, and Endocrine Efficacy of Two Doses of LA-2575 30 mg in Patients with Advanced Prostate Cancer by COL Raymond A. Costabile, MC

#201049: A Non-randomized, Multicenter Phase III Trial Evaluating the Efficacy and Safety of BCI-Immune Activator (KLH) in Patients who have Failed Adriamycin in Protocol BCI-9804 for the Treatment of Carcinoma in situ With or Without Resected Superficial Papillary Bladder Cancer (Protocol BCI-2001) by COL Raymond A. Costabile, MC

#201050: A Multicenter, Randomized Phase III Study of Adjuvant Oncophage Versus Observation in Patients with High Risk of Recurrence After Surgical Treatment for Renal Cell Carcinoma by COL Raymond A. Costabile, MC

#202008: A Placebo-Controlled Study of Cystistat (Sodium Hyaluronate) for the Treatment of Interstitial Cystitis by COL Raymond A. Costabile, MC

#202028: Prospective, Randomized, Double-Blind, Placebo-Controlled Evaluation of Topical Alprostadil Administered at Home for the Treatment of Women with Female Sexual Arousal Disorder by COL Raymond A. Costabile, MC

#202064: A Multicenter, Randomized, Parallel Group, Double-Blind, Placebo Controlled, Flexible Dose Escalation Study to Evaluate Self-Esteem and Overall Relationships in Men with Erectile Dysfunction Treated with Viagra (sildenafil citrate) in the United States by COL Raymond A. Costabile, MC

#202095: A Placebo-Controlled, Double-Blind, Randomized, Parallel Study of the Efficacy and Safety of Dapoxetine HCI in the Treatment of Rapid Ejaculation, Protocol Number C-2002-012-00 by COL Raymond A. Costabile, MC

#202122: Followup of Testicular Microlithiasis in an Asymptomatic Population by MAJ Leah P. McMann, MC and Raymond A. Costabile MD.

#203011: An Open Label Study of the Long-term Safety of Dapoxetine HCI in the Treatment of Rapid Ejaculation, Protocol Number C-2002-014-00 by COL Raymond A. Costabile, MC

#203019: Collection of Sexual Information in a Four-Week Outpatient Study in Normal Women Protocol Number FSD-07 by COL Raymond A. Costabile, MC

#203032: Pharmacokinetic, Safety, and Efficacy Study of a Six-Month Depot Formulation of Leuprolide in Subjects with Prostatic Adenocarcinoma, Protocol No. C02-008 by MAJ Keith J. O'Reilly, MC and Raymond A. Costabile MD.

Pilot study to evaluate molecular markers in urine and serum in the early detection of prostate cancer, principle investigator, Raymond A. Costabile, sponsor National Cancer Institute.

Open-label study for efficacy and safety of tadalafil for the treatment of erectile dysfunction, Principle investigator, Raymond A. Costabile, sponsor ICOS.

Viagra versus placebo to evaluate self-esteem and over-all relationships in men with erectile dysfunction, Principle Investigator, Raymond A. Costabile, Sponsor, Pfizer.

At home evaluation of the use of topical alprostadil for the treatment of female sexual arousal disorder, Principle investigator, Raymond A. Costabile MD sponsor Vivus.

An in clinic evaluation of the use of topical alprostadil for the treatment of female sexual arousal disorder, Principle investigator, Raymond A. Costabile MD sponsor Vivus.

Randomized, multicenter phase III trial evaluating Keyhole limpet hemocyanin vs Adriamycin in BCG refractory or intolerant patients with bladder CIS. Principle Investigator, Raymond A. Costabile MD, Madigan Army Medical Center, Sponsor Intracel.

Phase II study evaluating the efficacy and tolerability of Doxorubicin-ligand in bidimensionally measurable, androgen independent prostate cancer. Principle Investigator, Raymond A. Costabile MD. Madigan Army Medical Center, Sponsor, Merck.

A phase III, randomized, multicenter placebo-controlled trial to study the efficacy and safety of Cypat for the treatment of hot flashes following surgical or chemical castration of CAP patients and its impact on the QOL in these patients. Principle Investigator; Raymond A. Costabile MD, Madigan Army Medical Center, Sponsor Barr/Quintiles.

A phase III crossover study (2 arm, 3 period) evaluating the safety and efficacy of Uprima sublingual in combo with sildenafil citrate in the treatment of ED, Principle Investigator; Raymond A. Costabile MD, Madigan Army Medical Center. Sponsor TAP Pharmaceutical Phase II dose-ranging study in patients with hormone refractory prostate cancer; Principle Investigator; Raymond A. Costabile MD, Madigan Army Medical Center. Sponsor Lexigen, San Antonio, Texas.

A phase II, placebo controlled, double blind study of KMD-3213 in patients with signs and symptoms of BPH; Principle Investigator; Raymond A. Costabile MD ,Madigan Army Medical Center. Sponsor Kissei pharmaceuticals, Nagora, Japan.

Radiofrequency Ablation of Solid Renal Masses. Principle Investigator; Raymond A. Costabile. Study Site; Madigan Army Medical Center. Sponsor Radiotherapeutics, Mountain View, CA.

A six month. Two part, sequential, open label, fixed dose study to evaluate the safety, tolerance, pharmacokinetics and endocrine efficacy of monthly doses of LA-2500 in patients with advanced prostate cancer. Principal Investigator: Raymond A. Costabile. Study site: Madigan Army Medical Center.

A randomized double blind placebo controlled phase III trial evaluating zoledronate plus standard therapy versus placebo + standard therapy in patients with recurrent carcinoma of the prostate who are asymptomatic with castrate levels of testosterone and have rising PSA levels

without radiologically evident metastatic disease. Principle Investigator: Raymond A. Costabile. Study site: Madigan Army Medical Center.

Phase III randomized Study of a Single Adjunctive instillation of Intravesical AD-32 versus No Adjunctive Therapy Immediately Following Transurethral Resection in Patients with Multiple Superficial (Ta/T1) Bladder Tumors. Sponsored by Anthra. Principal Investigator: Raymond A. Costabile. Study Site: Madigan Army Medical Center.

A Phase III Randomized, Double blind study of DFMO vs Placebo in Low Grade Superficial Bladder Cancer. Sponsored by ILEX. Principal Investigator: Raymond A. Costabile. Study Site: Madigan Army Medical Center.

A National Phase II trial of Intron ( interferon alpha 2b) plus BCG for treatment of Bladder Cancer. Sponsored by Schering Plough. Principle Investigator; Raymond A. Costabile. Study Site; Madigan Army Medical Center.

Cyclosporine Treatment and the Effect on Post Vavovasostomy Semen Parameters in the Lewis Rat. Intramural Study at Walter Reed Army Medical Center and Uniformed Services University. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2883-99) and Uniformed Services University (#G190GE-01).

Evaluation of the Safety and Efficacy of Transurethral Alprostadil/Prazosin HCl for the Treatment of Erectile Dysfunction. Sponsored by VIVUS, Inc. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2874-98).

Long Term Evaluation of the Safety and Efficacy of Transurethral Alprostadil/Prazosin HCl for the Treatment of Erectile Dysfunction. Sponsored by VIVUS, Inc. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2875-98).

A Phase III Long-Term, Open-Label, Flexible Dose, Safety Extension Study of Apomorphine SL Tablets in a Special Population for the treatment of Male Erectile Dysfunction. Sponsored by tap Holdings, Inc., Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2876-98).

Three-Dimensional, Ultrasonic, Visualization of Prostate Cancer. Sponsored by Riverside Research Institute. Associate Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2836).

An Ultrasound Base System for Examination and Diagnosis of Prostate and Urinary Conditions. Intramural Study at Walter Reed Army Medical Center. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2858-98).

Study of the Safety and Effectiveness of the Mentor Saline-Filled Testicular Prosthesis. Sponsored by Mentor Corp. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2877-98).

Macroscopic and Microscopic Anatomy of the Arterial Supply to the Human Vas Deferens, Intramural Study at Walter Reed. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2873-98).

A Phase II Safety Study of 5 mg Apomorphine SL Tablets versus Placebo in the Treatment of Patients Diagnosed with male Erectile Dysfunction Following a Bilateral Nerve-Sparing Radical Retropubic Prostatectomy, Sponsored by Tap Holdings, Inc. Principle Investigator: Raymond A. Costabile, Study Site: Walter Reed Army Medical Center - (WU # 2851).

The Evaluation of Seminal Leucocytes and Cytokine Function in Infertile Males, Intramural Study at Walter Reed. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU# 2835).

Sildenafil as Treatment for Erectile Dysfunction, Sponsored by Pfizer, Inc. Principle Investigator: Raymond A. Costabile, Study Site: Walter Reed Army Medical Center - (WU #2829).

Program for Treatment of Erectile Failure with MUSE (Medicated Urethral System for Erection). Sponsored by VIVUS, Inc. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2881).

Evaluation of the Safety and Efficacy of Alprostadil Administered by MUSE (Medicated Urethral System for Erection). Sponsored by VIVUS, Inc. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2889).

One-Year Open Label Evaluation of the Safety and Efficacy of Alprostadil Administered by MUSE (Medicated Urethral System for Erection). Sponsored by VIVUS, Inc. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2891).

Long-Term Evaluation of the Safety and Efficacy of Alprostadil Administered by MUSE. Sponsored by VIVUS, Inc. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2811).

Acceptability of Testoderm<sup>®</sup> Testosterone Transdermal Systems in Private Clinical Practice and Other Settings. Sponsored by ALZA. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2887).

Evaluation of Serum Lipid and Lipoprotein Concentrations during Androgen Replacement Therapy. Sponsored by ALZA. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2893).

Quality of Life Evaluation of Testoderm<sup>®</sup> Testosterone Transdermal System. Sponsored by ALZA. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2892).

Testicular Volume in Children and Adolescents. Intramural Study at Walter Reed. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2895).

Trazodone for Treatment of Erectile Dysfunction. Intramural Research Study at Walter Reed. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2899).

Return of Potency after Radical Prostatectomy in Patients Using A Vacuum Tumescence Device: A Randomized, Multi-Center Study. Sponsored by Osbon Medical Systems. Principal Investigator: Raymond A. Costabile. Study Site & Coordinating Center: Walter Reed Army Medical Center - (WU#2800).

Multi-Center Randomized Phase II/III Trial of CD8 (+) Tumor Infiltrating Lymphocyte Cell Therapy and Recombinant Interleukin-2 in Metastatic Renal Cell Cancer. Sponsored by Applied Immune Sciences. Principal Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2805).

Multi-Center Prospective Study to Evaluate the Safety and Effectiveness of the American Medical Systems (AMS) Ambicor<sup>™</sup> Inflatable Penile Prosthesis. Sponsored by American Medical Systems (AMS). Associate Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center - (WU#2809).

Finasteride and Semen Production. Sponsored by Merck. Principle Investigator: Raymond A. Costabile. Study Site: University of Virginia Health Sciences Center.

Lomefloxacin in Complicated UTI. Sponsored by Searle. Associate Investigator: Raymond A. Costabile. Study Site: Walter Reed Army Medical Center.