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## CURRICULUM VITAE

# WAYNE JOHN G. HELLSTROM, M.D.

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### Wayne John G. Hellstrom, M.D., F.A.C.S.

- Dr. Wayne Hellstrom is a **professor of Urology and Chief of Andrology** (male infertility and sexual dysfunction) at **Tulane University School of Medicine** in **New Orleans**, where he has been employed since 1988.
- His practice is devoted to the diagnosis and treatment of **sexual dysfunction**, including **Peyronie's disease, surgical and vascular reconstruction, and penile implantation**.
- A **clinician, author, and lecturer**, Hellstrom has published nearly **200 peer-reviewed articles** in professional publications and contributed numerous chapters in textbooks.
- He also is the editor of **"Male Infertility and Sexual Dysfunction"** and **"The Handbook of Sexual Dysfunction"**.
- Dr. Hellstrom, who earned his undergraduate and medical degrees at **McGill University in Montreal** and completed his urology residency at the **University of California at San Francisco** and his fellowship at the **University of California at Davis**, has been awarded many honors in the field of urology, infertility, and erectile dysfunction, and currently serves as president of the **Sexual Medical Society of North America** and committee chair of the **International Society for Impotence Research** and is an associate editor for **The Journal of Andrology** and **The International Journal of Impotence Research**.



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## DATE AND PLACE OF BIRTH

April 6, 1955, Detroit, Michigan

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## EDUCATION

- B.SC. Physiology, **McGill University**, Montreal, P.Q. Canada, 1977
  - M.D.C.M. **McGill Medical School**, Montreal, P.Q. Canada, 1981
  - Internship: General Surgery, Montreal General and Royal Victoria Hospital, **McGill University**, Montreal, P.Q. Canada, 1981-1982
  - Residency: General Surgery, Montreal General and Royal Victoria Hospital, **McGill University**, Montreal, P.Q. Canada, 1981-1983
  - Urology, **University of California**, San Francisco, California, 1983-1985
  - Chief Resident, Urology, **University of California**, San Francisco, 1985-1986
  - Fellowship: Andrology, **University of California**, Davis, California, 1986-1988
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## CERTIFICATION

- Board of Medical Examiners, State of California #G49763, 1983
- Drug Enforcement Administrative Reg. #AH3077193, 1983
- Certification for Lithotripsy, AUA(UCSF), 1986
- Certification for American Board of Urology, 1988; Recertification 1997
- Louisiana State Board of Medical Examiners Cert. #07721R, 1988

- Fellow of the American College of Surgeons, 1990
  - ESWL/Medstone Training Certificate, 1996
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#### **ACADEMIC POSITIONS HELD**

- Instructor, Department of Urology, University of California, Davis, California, 1986 - 1988
  - Assistant Professor of Urology, Tulane University School of Medicine, New Orleans, Louisiana, 1988 - 1992
  - Chief, Male Infertility and Sexual Dysfunction, Tulane University Medical Center, New Orleans, Louisiana, 1988 - Present
  - Chief, Section of Urology, Charity Hospital of New Orleans, New Orleans, Louisiana, 1989 - Present
  - Research Affiliate, Delta Regional Primate Research Center, Covington, Louisiana, 1989 - 1998
  - Associate Professor of Urology, Tulane University School of Medicine, New Orleans, Louisiana, 1992 - 1999
  - Professor of Urology, Tulane University School of Medicine, New Orleans, Louisiana, 1999 - present
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#### **HOSPITAL AFFILIATIONS**

- Tulane University Hospital, New Orleans, Louisiana
  - Veterans Administration Medical Center, New Orleans, LA
  - Charity Hospital at New Orleans, New Orleans, Louisiana
  - Touro Infirmary, New Orleans, Louisiana
  - Doctors Hospital of Jefferson, Metairie, Louisiana
  - Huey P. Long Regional Medical Center, Pineville, LA
  - Lakeland Hospital, New Orleans, Louisiana
  - Pendleton Memorial Methodist Hospital, New Orleans, LA
  - Veterans Administration Medical Center, Alexandria, LA
  - Children's Hospital, New Orleans, Louisiana
  - Columbia Lakeview Regional Medical Center, Covington, LA
  - Columbia Lakeside Medical Center, Metairie, LA
  - University Hospital, New Orleans, LA
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#### **PROFESSIONAL SOCIETIES**

- American Fertility Society/American Society for Reproductive Medicine
- American Medical Association (1988-1994)
- American Society of Andrology
- American Urological Association
- Fellow of the American College of Surgeons
- International Society for Impotence Research
- Louisiana State Medical Society
- Northern California Association of Urologists (1983-1988)
- Orleans Parish Medical Society
- Societe Internationale d'Urologie
- Society of Genitourinary Reconstructive Surgeons (GURS)
- Society of Male Reproduction and Urology
- Society of University Urologists, Inc.
- Southeastern Section of the AUA
- Southern Medical Association

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## EDITORSHIPS

- 1988 – Present Fertility and Sterility Journal (Reviewer)
- 1990 – Present Journal of Andrology (Reviewer)
- 1990 – Present Assisted Reproductive Technologies for Andrology. ARTA (Co-editor)
- 1991 – Present New England Journal of Medicine (Reviewer)
- 1992 – 1996 Journal of Andrology, Editorial Board Member
- 1993 – Present Journal of Urology (Reviewer)
- 1993 – Present Urology (Reviewer)
- 1995 – Present Journal of Clinical Investigation (Reviewer)
- 1995 – Present Biology of Reproduction (Reviewer)
- 1997 – Present Journal of Andrology, Associate Editor
- 1998 – Present Web Site Committee (Society for the Study of Sexual Dysfunction)

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## PUBLICATIONS IN REFERRED JOURNALS

(Archived publications prior to 1995 available under separate cover)

- Monga M; Moreno T; Hellstrom WJG: Gunshot wounds to the male genitalia: management for the clinical urologist. *Contemporary Urology* 7(1):58-63, 1995.
- Monga M; Moreno T; Hellstrom WJG: Gunshot wounds to the male genitalia. *J Trauma* 38(6):855-8, 1995.
- Monga M; Puyau FA; Hellstrom WJG: Posttraumatic high-flow internal pudendal artery-urethral fistula. *J Urology* 153(3 Pt 1):734-6, 1995.
- Steele RH; Martin AA; Sikka SC; Hellstrom WJG: Penile intracavernosal substance abuse. *Urology* 45(4):686-88, 1995.
- Rajasekaran M; Hellstrom WJG; Naz RK; Sikka SC: Oxidative stress and interleukins in seminal plasma during leukocytospermia. *Fertil Steril.* 64(1):166-71, 1995.
- deBoisblanc MW; Robichaux WH; Hellstrom WJG: Large scrotal epidermal inclusion cyst and hydrocele. *J La State Med Soc.* 147(6):280-1, 1995.
- Hellstrom WJG; Monga M; Sofikitis N: Current medical treatment of idiopathic oligozoospermia. *Jpn J Fertil Steril.* 40(3):386-97, 1995.
- Sofikitis N; Miyagawa I; Dimitriadis D; Zavos P; Sikka SC; Hellstrom WJG: Effects of smoking on testicular function, semen quality, and sperm fertilizing capacity. *J Urology* 154(3):1030-34, 1995.
- Lowentritt JE; Kawahara K; Human LG; Hellstrom WJG; Domingue GJ: Bacterial infection in prostatodynia. *J Urology* 154(4):1378-81, 1995.
- Hellstrom WJG; Lewis R; Narayan P: Benign prostatic hyperplasia patient evaluation and treatment options. *South Med J* 5(3):7-8, 1996
- Candella JV and Hellstrom WJG: Three-piece inflatable penis prosthesis implantation: a comparison of the penoscrotal and infrapubic surgical approaches. *J La State Med Soc.* 148(7):296-301, 1996.
- Monga M and Hellstrom WJG: Medical Treatment for Male Infertility. *Contemporary Urology* 8(9):23-47, Sept. 1996.
- Monga M; Broderick GA; Hellstrom WJG: Priapism in sickle cell disease: the case for early implantation of the penile prosthesis. *Eur Urology* 30(1):54-9, 1996.
- Hellstrom WJG; Monga M; Cote D; Harmon E: Reconstruction of a total anterior urethral defect using buccal mucosa. *South Med J.* 89(11):1088-91, 1996.
- Hellstrom WJG; Bennett AH; Gesundheit N; Kaiser FE; Lue TF; Padma-Nathan H; Peterson CA; Tam PY; Todd LK; Varady JC and Place VA: A double-blind, placebo-controlled evaluation of the erectile response to transurethral alprostadil. *Urology* 48(6):851-56, 1996.

- Rajasekaran M; Hellstrom W; Sikka S: Quantitative assessment of cytokines (GRO alpha and IL-10) in human seminal plasma during genitourinary inflammation. *Am J Reprod Immunol.* 36(2):90-5, 1996.
- Vandenberg TL and Hellstrom WJG: Individualizing androgen replacement therapy. *Contemporary Urology Supplement*, p. 25-38, 1997.
- Padma-Nathan H; Hellstrom WJG; Kaiser FE; Labasky RF; Lue TF; Nolten WE; Norwood PC; Peterson, CA; Shabsigh R; Tam PY; Place VA and Gesundheit N: Treatment of men with erectile dysfunction with transurethral alprostadil. Medicated urethral system for erection (MUSE) study group. *N Engl J Med.* 336(1):1-7, 1997.
- Ghoniem GM; Shoukry MS; Faced AAS; Hellstrom WJG and Sakr MA: Human vasal changes after vasectomy: In vitro studies. *Eur Urology* 31(2):231-36, 1997.
- Champion HC; Wang R; Shenassa BB; Murphy WA; Coy DH; Hellstrom WJG; Kadowitz PJ: Adrenomedullin induces penile erection in the cat. *Eur J Pharmacol.* 319(1):71-5, 1997.
- Wood JC; Monga M and Hellstrom WJG: Penile Calciphylaxis. *Urology* 50(4):622-4, 1997.
- Labadie P and Hellstrom WJG: Hematospermia: Clinical directives. *South Med J.* 90(10):S127, 1997.
- Champion HC; Wang R; Santiago JA; Murphy WA; Coy DH; Kadowitz PJ and Hellstrom WJG: Comparison of responses to adrenomedullin and calcitonin gene-related peptide in the feline erection model. *J Andrology* 18(5):513-21, 1997.
- Champion HC; Wang R; Hellstrom WJ and Kadowitz PJ: Nociceptin, a novel endogenous ligand for the ORL1 receptor, has potent erectile activity in the cat. *Am J Physiol.* 273(1 Pt. 1):E214-19, 1997.
- Estrada LS; Champion HC; Wang R; Rajasekaran M; Hellstrom WJ; Aggarwal B; and Sikka SC: Effect of tumor necrosis factor-alpha (TNF- $\alpha$ ) and interferon- $\gamma$  (IFN- $\gamma$ ) on human sperm motility, viability and motion parameters. *Int J Androl* 20(4):237-42, 1997.
- Ahuja SK; Krane NK and Hellstrom WJ: Penile prostheses in the management of impotence in patients with end-stage renal disease. *J La State Med Soc,* 150(1):32-4, 1998.
- Hellstrom WJG: Priapism: Approaches to management. *AUA News,* 3(1):14-15, 1998.
- Hellstrom WJG; Wang R; Peterson C; Varady J; Gesundheit N and Sikka SC: Effects of alprostadil and prazosin on motility, viability and membrane integrity of human sperm. *J Urology,* 159(5):1559-62, 1998.
- Peterson CA; Bennett AH; Hellstrom WJG; Kaiser FE; Morley JE; Nemo KJ; Padma-Nathan H; Place VA; Prendergast JJ; Tam PY; Tanagho EA; Todd LK; Varady JC and Gesundheit N: Erectile response to transurethral alprostadil, prazosin and alprostadil-prazosin combinations. *J Urology,* 159(5):1523-27; discussion 1527-8, 1998.
- Hellstrom WJG and Domingue GJ: Bacterial infection in prostatodynia (letter to editor: Dr. Peter M. Joseph). *J Urology,* 154:1378-1381 (1995), Editor's Letter, 1998.
- Netto Jr., RR; Esteves SC; Neves PA: Transurethral resection of partially obstructed ejaculatory ducts: Seminal parameters and pregnancy outcomes according to the etiology of obstruction. (Editorial Comment: Wayne J.G. Hellstrom) *J Urology,* 6(159):2048-53, 1998.
- Armstrong JS; Rajasekaran M; Hellstrom WJG and Sikka SC: Antioxidant potential of human serum albumin: Role in the recovery of high quality human spermatozoa for assisted reproductive technology. *J Andrology,* 19(4):412-19, 1998.
- Bivalacqua TJ; Champion HC; Kadowitz PJ, Doherty PC and Hellstrom WJG: Potentiation of erectile response by combination of prostaglandin E1 and rolipram in the cat. *Impotence Research,* pp. 225-229, 1998.
- Hellstrom WJG; Bivalacqua TJ; Kadowitz PJ and Doherty PC: Type 3, 4 and 5 phosphodiesterase inhibitors influence penile erection in the cat. *Impotence Research,* pp. 219-224, 1998.

- Hellstrom WJG: When and how to treat the androgen-deficient male. *Contemporary Urology*, 10(9): 52-68, 1998.
- Lasser A; VandenBerg TL; Vincent M and Hellstrom WJG: Intraplaque verapamil injection for treatment of Peyronie's disease. *J La Med Soc.* 150(9):431-4, 1998.
- Constabile RA; Spevak M; Fishman IJ; Govier FE; Hellstrom WJG; Shabsigh R; Nemo KJ; Rapport JL; Tam PY; Weldon KLM and Gesundheit N: Efficacy and safety of transurethral alprostadil in patients with erectile dysfunction following radical prostatectomy. *J Urology* 160(4):1325-8, 1998.
- Bivalacqua TJ; Rajasekaran M; Champion HC; Wang R; Sikka SC; Kadowitz PJ and Hellstrom WJG: The influence of castration on pharmacologically induced penile erection in the cat. *J Andrology*, 19(5):551-7, 1998.
- Domingue GJ and Hellstrom WJG: Prostatitis. *Clin Microbiol Reviews*, 11(4):604-13, Review. 1998.
- Rajasekaran M; Mondal D, Agrawal K, Chen IL, Hellstrom WJG, and Sikka SC: Ex vivo expression of nitric oxide synthase isoforms (eNOS/iNOS) and calmodulin in human penile cavernosal cells. *J Urology*, 160(6 Pt. 1):2210-15, 1998.
- Champion HC; Bivalacqua TJ; Wang R; Hellstrom WJG; and Kadowitz PJ: [Tyr1]-nociceptin and nociceptin have similar naloxone-insensitive erectile activity in the cat. *J Andrology*, 19(6):747-753, 1998.
- Armstrong JS; Rajasekaran M, Chamulitrat W, Gatti P, Hellstrom WJ and Sikka SC: Characterization of reactive oxygen species induced effects on human spermatozoa movement and energy metabolism. *Free Radic Bio Med* 26(7/8):869-80, 1999.
- Labadie P and Hellstrom WJG: Hematospermia: Diagnosis, evaluation, and clinical relevance. *Contemporary Urology* 11(4):125-9, 1999.
- Ahuja SK; Sikka SC and Hellstrom WJG: Stimulation of collagen production in an in vitro model of Peyronie's disease. *International Journal of Impotence Research* 11;1-6, 1999.
- Champion HC; Bivalacqua TJ; Wang R; Kadowitz PJ; Keefer LK; Saavedra JE; Hrabie JA; Doherty PC and Hellstrom WJG: Induction of penile erection by intracavernosal and transurethral administration of novel nitric oxide donors in the cat. *J Urology* 161:2013-19, 1999.
- Ahuja SK; Bivalacqua TJ, Case J, Vincent MJ; Sikka SC and Hellstrom WJG: A pilot study demonstrating clinical benefit from intralesional Interferon Alpha 2b in the treatment of Peyronie's disease. *Journal of Andrology* 20:444-448, 1999
- Hellstrom WJG: Testosterone Replacement Therapy. In: *Digital Urology Journal*, website: <http://www.dug.com/Article/Hellstrom2/Hellstrom2.html>. 1999
- Shenassa B and Hellstrom WJG: Premature ejaculation: from historical origins to current treatment. *Chronicle of Urology* 7 Sexual Medicine Augst 1999, pp. 11-12
- Champion HC, Bivalacqua TJ, Hyman AL, Ignarro LJ, Hellstrom WJG, and Kadowitz PJ: Gene-transfer of endothelial nitric oxide synthase to the penis augments erectile responses in the aged rat. *Proceedings of the National Academy of Science* Vol. 96:11648-11652 September 1999
- Bivalacqua TJ; Champion HC; Rajasekaran M; Kadowitz PJ; Sikka SC; Doherty PC and Hellstrom WJG: Potentiation of erectile response and cAMP accumulation by combination of prostaglandin E1 and rolipram, a selective inhibitor of the type 4 phosphodiesterase (PDE 4). *Journal of Urology* (In Press), 1999
- Hellstrom WJ: Testosterone Replacement Therapy. *Digital Urology Journal* (In press)
- Bivalacqua TJ; Champion HC; Wang R; Kadowitz PJ; Doherty PC and Hellstrom WJG: Feline penile erection induced by transurethral administration of sodium nitroprusside. *Urological Research* (In press)
- Bivalacqua TJ, Champion HC, Purohit SK, Murphy WA, Coy DH, Kadowitz PJ, and Hellstrom WJG: Nitric oxide-mediated erectile effects of galantide but not galanin in vivo. *Nitric Oxide* (Submitted), 1999

- Hellstrom WJ: Application of Pericardial Graft in the Surgical Management of Peyronie's Disease. (Submitted) Journal of Urology.
- Overstreet JW; Fuh VL; Howards SS; Lieber MM; Hellstrom WJG, et al.: Chronic treatment

with finasteride 1 mg/day does not affect spermatogenesis or semen production in young men. J Urology (Submitted), 1999

- Hellstrom WJG; McAninch JW; Lue TF: Priapism: Pathophysiology and treatment. In R.W. deVere White (Guest Ed.) Problems in Urology, Sexual Dysfunction. JB Lippincott Company, 1987.
- Hellstrom WJG; Overstreet JW; Lewis EL: The clinical significance of antibodies in the treatment of male infertility. In R.W. deVere White (Guest Ed.) Problems in Urology, Sexual Dysfunction, JB Lippincott Company, 1987.
- Hellstrom WJG: Immunologic Infertility and the Immunobead Test. In Common Problems In Infertility, Edited by J. Raifer and A. Wein, 1989.
- Hellstrom WJG and Salvatore FT: Vacuum constriction devices: Are they useful? In World Book on Impotence Research: Basic and Clinical. Edited by Tom Lue. pp. 169-80, 1992.
- Hellstrom WJG and Neal DE: The diagnosis and therapy of male genital tract infections. Infertility and Reproductive Medicine Clinics of North America, pp. 399-411, April 1992.
- Sikka SC and Hellstrom WJG: The application of pentoxifylline in the stimulation of sperm motion in men undergoing electroejaculation. Treatment of Male Infertility in: Year Book of Infertility. Mosby Year Book Inc., p. 133, 1992.
- Hellstrom WJG: The new injection treatment for impotence: Medical and psychological aspects, Wagner and Kaplan. (Review) N Engl J Medicine, 329(6):439-440, 1993.
- Sikka SC and Hellstrom WJG: Vascular laboratory diagnosis of impotence. In: The Noninvasive Vascular Laboratory: Current Issues and Clinical Developments, editors: Auer and Neumyer, St. Louis, MO. (In press)
- Wang R; Monga M; Hellstrom WJG: Ejaculatory Dysfunction. In: Textbook of Clinical Andrology, edited by Professor Frank Comhaire. (1995).
- Monga M and Hellstrom WJG: Testicular Trauma In: Adolescent Medicine: State of the Art Reviews, 1996.
- Monga M; Sofikitis N and Hellstrom WJG: Benign scrotal masses in the adolescent male: Varicoceles, spermatoceles, and hydroceles. Adolescent Medicine: State of the Art Reviews, 1996.
- VandenBerg T and Hellstrom WJG: Hormonal evaluation and treatment of the patient with sexual dysfunction. In: The Diagnosis and Management of Male Sexual Dysfunction Edited by John J. Mulcahy, pgs. 35-54, 1996.
- Hellstrom WJG: Surgical treatment of Peyronie's disease In: Textbook of Andrology: Relevant issues in male infertility and sexual dysfunction. Edited by Wayne J. G. Hellstrom. Allen Press, Inc. Chapter 36, 1997.
- Monga M and Hellstrom WJG: Testicular Torsion and Fertility In: Textbook of Andrology: Edited by Wayne J. G. Hellstrom. Allen Press, Inc. Chapter 22, 1997.
- Monga M and Hellstrom WJG: Cryptorchidism and Fertility In: Textbook of Andrology: Edited by Wayne J. G. Hellstrom. Allen Press, Inc., Chapter 36, 1997.
- Monga M and Hellstrom WJG: Nongonococcal urethritis. In: Conn's Current Therapy. Edited by Robert E. Rakel. W. B. Saunders Company, pgs. 736-37, 1997.
- Hellstrom WJG; Monga M and Sofikitis N: Fertilidadee Infertilidade Humana: Oligospermia Idiop<tica. Edited by Claudio Tel'ken. MEDSI Editora MJdicare Cientifica Ltda. Chapter 41, pgs. 515-27 (1997).
- Hellstrom WJG; Bivalacqua TJ, Champion HC and Kadowitz PJ: The Role of Nitric Oxide on Penile Blood Flow and Genitourinary Tract Function In: Nitric Oxide and the Regulation of the Peripheral Circulation. Edited by Philip J. Kadowitz and Dennis B. McNamara. Boston: Birkhauser, Biomedical Sciences, 1999.
- Ruiz-Deya G and Hellstrom WJG: Management of Peyronie's disease. In: Male Sexual Dysfunction: Basic Concepts, Diagnosis and Treatment. (In press)
- Purohit S and Hellstrom WJG: Impotence. In: Conn's Current Therapy 2000. (In press)

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## BOOKS

- Hellstrom WJG: Male Infertility and Sexual Dysfunction. In: Textbook of Andrology. Edited by Wayne J. G. Hellstrom. Springer-Verlag: New York, April, 1997.
- Hellstrom WJG: Handbook of Sexual Dysfunction. Edited by Wayne J. G. Hellstrom. Allen Press: Lawrence, Kansas. January 1999.

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## AUDIO and VIDEO TAPES

- Hellstrom WJG: Innovations in Laparoscopic Varicocelectomy, April 1992.
- Hellstrom WJG: Current controversies in Andrology. April 1995.
- Hellstrom WJG: Transurethral alprostadil: A new option in the treatment of erectile dysfunction, Sept.1997.
- Hellstrom WJG: New perspectives in the management of BPH. April 7, 1998.
- Hellstrom WJG: New treatments in male sexual dysfunction. June 1, 1999