



## Hsu's Andrology

Taipei, Taiwan

### Microsurgical Potency Reconstruction & Research Center

#### › Our Center

Our center aims to provide surgical solutions to a number of conditions which affect the quality of male sexual performance. We specialize penile venous stripping surgery –the removal of incompetent veins which compromise erectile quality. We also provide other beneficial procedures to help men achieve their desired sexual function where it has otherwise been compromised..

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By appointment only

#### › Penile Venous Surgery

The first reported instance of penile venous surgery took place over a century ago. Wooten first published "Ligation of the deep dorsal vein for atonic impotence" in the Texas Medical Journal in 1902. Early successes were met with an optimism that gradually diminished in light of the limited durability of the outcomes.

Indeed, the continuing disappointment in the results of such procedures culminated in the 1996 ruling by the clinical guidelines panel of the American Urological Association (AUA), that venous and arterial surgeries for the purpose of treating erectile dysfunction are not justified in routine use. As such, these procedures have been almost entirely abandoned by the majority of the medical community.

However, having performed venous stripping surgery on more than three thousand patients over a period of twenty-five years, subsequently having observed extremely gratifying results. We feel justified in recommending this surgery for the treatment of erectile dysfunction, using our unique methods.

Since 1986, rigorous anatomical studies have provided us with a deeper insight into penile anatomy, and intensive microsurgical training has equipped us with the skills and experience to perform the necessary surgery in such a way that respects the delicate nature of the penile tissues. Our now finely tuned methods minimize tissue damage by forgoing the use of commonly-used techniques such as the suction apparatus and electrocautery. All procedures are performed on a true outpatient basis under pure local anesthesia.

Our results speak for themselves as individuals whose previous surgical attempts and pharmaceutical treatments had failed to make any real impact.

Our methods are not limited in their applications to venous stripping surgery; but also extend to the following procedures:

- Penile curvature correction
- Penile implantation
- Varicocelelectomy
- Penile enhancement
- Penile enhancement in implant patients

Although most patients are Taiwanese, since 1986 Geng-Long Hsu has successfully operated on men from Australia, Belgium, Canada, China, England, France, Greece, Indonesia, Korea, Malaysia, Norway, Philippines, Sweden, Thailand and the United States. Urologists and surgeons have come from different parts of the world, including Australia, Canada, Greece, Korea, Sweden, Thailand and the United States, some have even accompanied their patients, to observe and witness the operations. It is our hope that these breakthrough procedures and their associated techniques will eventually become avail-

able worldwide.

#### › For the Specialist

If you are a urologist, vascular surgeon or plastic surgeon with a good command of microsurgical technique and are interested in observing our methods in practice, we would happily extend to you an invitation to attend and observe any number of these operations. We offer a fully equipped laboratory staffed by a team of professionals trained in microsurgery.

#### › For the Patient

If you suffer from a form of erectile dysfunction that has proven unresponsive to conventional medical solutions, or possess a morphologic abnormality of the penis, we welcome you to consult with us.

All procedures have proven to be safe and are performed purely on an outpatient basis. Local anesthesia is used in all instances and can be augmented via an initial application of acupuncture.

We welcome any and all specialists and patients who are interested in exploring these techniques. For the former, seeing is believing, and for the latter, experience speaks volumes.

#### Geng-Long Hsu, M.D.

#### › Innovations

Breakthroughs in anatomical knowledge of the human penis

- Penile Venous Anatomy
- The Tunica albuginea and the integral relationship between skeletal and smooth muscles.
- Erection hemodynamic mechanism: The venous contribution is the determinant factor.

#### › Surgical methods of penile erectile & morphological reconstruction

These insights into penile tunical, venous anatomy and erection physiology in turn – enhance clinical applications routinely encountered by physicians and surgeons, including penile morphological reconstruction, penile implantation and penile venous surgery.

#### › Major Publications

- Tsai TC, Hsu GL, Chen SC, Wang CL. Analysis of the results of reconstructive surgery for vasculogenic impotence. Journal of Formosa Medical Association. 87:182-7; 1988.
- Tsai TC. Hsu GL. Chen SC. Wang CL. Chen CL. Clinical significance of anatomy of penile deep dorsal vein. Journal of Formosa Medical Association. 87:1187-90; 1988.
- Hsu GL, Brock G, Martinez-pinerio L, von Heyden B, Lue TF, Tanagho EA. The three-dimensional structure of the human tunica albuginea: anatomical and ultrastructural level. International Journal of Impotence Research. 4: 117-29; 1992.

- Hsu GL, Brock G, Martinez-Pineiro L, von Heyden B, Lue TF, Tanagho EA. Anatomy and strength of the tunica albuginea: its relevance to penile prosthesis extrusion. Journal of Urology. 151: 1205-8, 1994.

- Hsu GL, Brock G, von Heyden B, Nunes L, Lue TF, Tanagho EA. The distribution of elastic fibrous elements within the human penis. British Journal of Urology. 73: 566-71, 1994.

- Hsu GL, Chen SH, Weng SS. Out-patient surgery for the correction of penile curvature. British Journal of Urology. 79: 36-9, 1997.

- Hsu GL, Wen HS, Hsieh CH, Liu LJ, Chen YC. Traumatic glans deformity: reconstruction of distal ligamentous structure. Journal of Urology. 166: 1390, 2001.

- Hsu GL, Hsieh CH, Wen HS. Curvature correction in patients with tunical rupture: a necessary adjunct to repair. Journal of Urology. 167: 1381-3, 2002.

- Hsu GL, Hsieh CH, Wen HS, Hsieh JT and Chiang HS: Outpatient surgery for penile venous patch with the patient under local anesthesia. Journal of Andrology. 24: 35-9, 2003.

- Hsu GL, Hsieh CH, Wen HS, Chen YC, Chen SC and Mok MS: Penile venous Anatomy: An additional description and its clinical implication. Journal of andrology. 24: 921-7, 2003.

- Hsu GL, Hsieh CH, Wen HS, Hsu WL and Chen CW: Anatomy of the human penis: The relationship of the architecture between skeletal and smooth muscles. Journal of Andrology. 25: 426-31, 2004.

- Hsu GL, Hsieh CH, Wen HS, Chen SC, Chen YC, Liu LJ, Mok MS and Wu CH. Outpatient penile implantation with the patient under a novel method of crural block. International Journal of Andrology. 27: 147-51, 2004.

- Hsu GL: Revision der mikroskopischen Anatomie mit klinischen Bezügen. Andrologien info. 2004; Juni: 86-9. (An internet issue is also available in the website: [www.andrologien.info](http://www.andrologien.info)).

- Hsu GL, Hsieh CH, Wen HS, Hsu WL, Chen YC, Chen RM, Chen SC, Hsieh JT. The effect of electrocoagulation on the sinusoids in the human penis. Journal of Andrology. 25: 954-9, 2004.

- Chen SC, Hsieh CH, Hsu GL, Wang CJ, Wen HS, Ling PY, Huang HM, Tseng GF. The progression of the penile vein: could it be recurrent? Journal of Andrology. 26: 56-63, 2005.

- Hsieh CH, Wang CJ, Hsu GL, Chen SC, Ling PY, Wang T, Fong TH, Tseng GF. Penile veins play a pivotal role in erection: the hemodynamic evidence. International Journal of Andrology. 28: 88-92, 2005.

- Wen HS, Hsieh CH, Hsu GL, Kao YC, Ling PY, Huang HM, Wang CY and Einhorn EF: The synergism of penile venous surgery and oral sildenafil in treating patients with erectile dysfunction. International Journal of Andrology. 28: 297-303, 2005.

- Hsu GL, Ling PY, Hsieh CH, Wang CJ, Chen CW, Wen HS, Liu LJ, Huang HM, Einhorn EF, Tseng GF. Outpatient varicocelelectomy performed under local anesthesia. Asian Journal of Andrology 7: 439-44, 2005.

- Hsu GL, Lin CW, Hsieh CH, Hsieh JT, Chen SC, Kuo TF, Ling PY, Huang HM, Wang CJ, Tseng GF. Distal ligament in human glans: a comparative study of penile architecture. Journal of Andrology. 26: 624-8, 2005.

- Hsu GL: The hypothesis of human penile anatomy, erection hemodynamic and their clinical applications. Asian Journal of Andrology 8: 225-34, 2006.

- Hsu GL, Hsieh CH, Wen HS, Ling PY, Chen SY, Huang HM and Tseng GF. Formulas for determining the dimensions of venous graft required for penile curvature correction. International Journal of Andrology. 29: 515-20, 2006.

- Hsu GL, Chen HS, Hsieh CH, Ling PL, Wen HS, Liu LJ, Chen CW and Liu MW. Insufficient response to venous surgery: is penile vein recurrent or residual? Journal of Andrology 27: 700-6, 2006.

- Hsu GL, Chen HS, Hsieh CH, Chen RM, Wen HS Liu LJ and Chua C. Long-term result of an autologous venous grafting for penile morphological reconstruction. Journal of Andrology. 28: 186-93, 2007.

- Hsu GL, Hsieh CH, Chen HS, Ling PY, Wen HS, Huang HM, Liu LJ, Chen CW, and Chua c. The Advancement of Pure Local Anesthesia for Penile Surgeries: Can an Outpatient Basis be Sustainable? Journal of Andrology. 28: 200-5, 2007.

- Hsu GL, Chen HS, Hsieh CH, Lee WY, Chen KL and Chang CH. Salvaging Penile Venous Stripping Surgery. Journal of Andrology. 31: 250-60, 2010.

- Hsu GL, Chen HS, Hsieh CH, Lee WY, Chen KL and Chang CH. Clinical Experience of a Refined Penile Venous Surgery Procedure for Patients with Erectile Dysfunction: Is it a Viable Option? Journal of Andrology. 31: 271-80, 2010.

- Hsieh CH, Chen HS, Lee WY, Chen KL and Chang CH and Hsu GL. Salvage Penile tunical surgery. Journal of Andrology. 31: 450-6, 2010.

#### › Patents

- Penile development correction device (US 7,896,799 B2)
- A Physiological Approach of a Penile Venous Stripping Surgical Procedure for Patients with Erectile Dysfunction on ambulatory basis (US patent on file, 12/776,446)

#### › Major Awards

- Jean-Paul Ginestie Prize & Herbert Newman Prize (null was cited), V WORLD MEETING on IMPOTENCE 1992 Milano, ITALY.
- Second prize in the 3rd World Congress on Controversies in Urology (CURy) Athens, Greece, 2010.