

May 24-25, 2018  
London, UK

Chun Kai Hsu et al., J Vasc Endovasc Therapy 2018, Volume 3  
DOI: 10.21767/2573-4482-C1-002

## ACUPUNCTURE AIDED LOCAL ANESTHESIA FOR PENILE VASCULAR SURGERIES

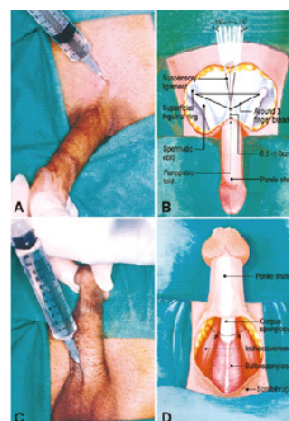
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Despite topical anesthetic blockage for penile surgeries has been substantially reported in the medical literature, a heavy intravenous sedation is unexceptionally used. We sought to report an acupuncture assisted pure local anesthesia on the ambulatory basis under several methods of topical blocks. From 1989 to 2017, 3223 men (ages 19 to 91 years) received our ambulatory penile vascular surgeries. They were categorized into the venous (n= 2867), patch (n= 323), and arterial groups (n= 33) in accordance with penile venous stripping, penile autologous venous patches, and penile arterial reconstruction surgery respectively. The chosen acupoints involve Hegu (LI4), Shou San Li (LI10), Quchi (LI11), and either Waiguan (SJ5) or Neiguan (PC6). In tandem with our advanced penile anatomy, the topical blocks include proximal dorsal nerve block, peripenile infiltration, bilateral crural blockage and topical infiltration. These blockages are sufficient local anesthesia for patients with varied vascular surgeries unless a penile implant which requires bilateral cavernous nerve block. The anesthetic effects when a visual analog scale of 100 mm was used, and postoperative results were satisfactory. Common immediate side effects included puncture of the corpus spongiosum or the deep dorsal vein as well as the innominate vessel, subcutaneous ecchymosis, transient palpitations, and acceptable low level of pain. There were no significant late complications. A booster injection is advised by 4 hours before the patient registers pain again. Overall 2635 men (81.5%) require 1 to 2 booster injections. In recent three years, 23 American and European males have successfully received this acupuncture-aided local anesthesia despite they insisted general anesthesia in threads of internet consultations before their attendances. Topical nerve blockades proved to be reliable, simple, and safe, with minimal complications. They offer the advantages of less morbidity, reduced effects of anesthesia, protection of privacy, and a rapid return to preoperative daily activity.



### Recent Publications

1. Hsu GL, Hsieh CH, Wen HS, Hsieh JT and Chiang HS (2003) Outpatient surgery for penile venous patch with the patient under local anesthesia. *Journal of Andrology* 24:35-39.
2. Hsieh CH, Liu SP, Hsu GL, Chen HS, Molodysky E, Chen YH, Yu HJ. (2012) Advances in our understanding of mammalian penile evolution, human penile anatomy and human erection physiology: Clinical implications for physicians and surgeons *Medical Science Monitor* 18: RA118-125.
3. Hsu GL, Molodysky E, Liu SP, Hsieh CH, Chen HC, Chen YH (2013) A Combination of Penile Venous Stripping, Tunical Surgery and Varicocelectomy for Patients with Erectile Dysfunction, Penile Dymorphology and Varicocele under Acupuncture-aided Local Anesthesia on Ambulatory Basis. *Surgery: current research* S12:008.
4. Hsu GL, UX, Hsieh CH, Huang SJ (2013) Acupuncture assisted regional anesthesia for penile surgeries.

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Translation *Andrology and Urology* 2:291-300.

5. Hsu GL, Molodysky E, Liu SP, Chang HC, Hsieh CH, Hsu CY (2013) Reconstructive surgery for idealizing penile shape and erectile functional restoration on patients with penile dysmorphism and erectile dysfunction *Arab Journal Urology* 11:375–383.
6. Hsu GL, Hill JW, Hsieh CH, Liu SP and Hsu CY (2014) Venous ligation: A novel strategy for glans enhancement in penile prosthesis implantation. *BioMedical Research International* (2014), Article ID 923171, 7 pages <http://dx.doi.org/10.1155/2014/923171>
7. Hsu GL, Liu SP (2018) *Male Reproduction Tract: Penile Structure, Chapter 63, in Volume 1: Male Reproduction, Reproduction Encyclopedia, 2018.*
8. Hsu GL, Lu HC (2018). *Male Reproduction Tract: Penile Structure-Erection, Chapter 64, in Volume 1: Male Reproduction, Reproduction Encyclopedia, 2018.*
9. Hsu GL, Lu HC (2018). *Male Reproduction Tract: Penile Structure-Erection, Chapter 64, in Volume 1: Male Reproduction, Reproduction Encyclopedia, 2018.*

10. Huang PC, Hsu GL (2018). *Male Reproduction Tract: Vascular surgery for erectile dysfunction, Chapter 89, in Volume 4: Reproduction Medicine, Reproduction Encyclopedia, 2018.*

### Biography

Since 1986, Geng-Long Hsu, formerly a clinical professor at China Medical University, has developed and refined a series of penile reconstructive surgeries, including penile venous surgery, corporoplasty and penile implantation, in tandem with advanced the penile anatomy and erection physiology. In 1993, he was promoted to the first Chair of Urology at Taiwan Adventist Hospital; he held that position until 1997 and then served as vice-superintendent of Po-Jen General Hospital until 2001. From 2001 to 2003, Dr. Hsu was a director of microsurgery potency reconstruction at Taipei Medical University Hospital. Afterward, he established his private practice—Hsu's Andrology—which serves as both a clinical practice and research center. In 2012, Dr. Hsu's latest method of penile venous stripping, administered via an ambulatory basis, was granted a USPTO patent. He hopes this surgery will be studied and practiced worldwide. I, Chun-Kai Hsu, am pleasurable to conduct this report in fellowship.

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