



UROLOGY CONSULTANTS

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WHAT IS THE NO-NEEDLE NO-SCALPEL VASECTOMY TECHNIQUE?

No-needle and No-scalpel vasectomy as I have performed for the past 20 years is a technique that initially was developed in China by Dr. Li Shunqiang with the aim of reducing men's fear related to the incision and increasing vasectomy use in China. Since 1974, over 10 million Chinese men have undergone vasectomy by the no-scalpel technique. We later on incorporated the no-needle technique by utilizing a Medajet® gun¹

During a standard [vasectomy](#), two incisions are made in the scrotum to allow the surgeon to reach each of the man's vas deferens (the two tubes that transmit sperm into the semen). During a no-scalpel vasectomy (*also referred to as a keyhole vasectomy*), **no** incisions are made. Instead, I use a hemostat (locking forceps with a sharp tip) to puncture through the skin of the scrotal sac. Then, the skin is gently spread only until both vas deferens can be visualized. Because the puncture site is so small and is just through the skin, stitches are usually not required and healing time is quick. As compared to a traditional vasectomy, the no-scalpel approach is a less invasive and quicker procedure (total time including prep and anesthesia is approximately 15 to 20 minutes).

¹ The development of a system that allows medicine to be propelled through the skin into the underlying tissue, without the use of a needle, could offer an effective alternative to conventional delivery. It is a high velocity dry powder injection, a new development in drug delivery, provides needle free and pain free delivery of traditional and biotechnology drugs and vaccines. For delivery via skin, the particles must only breach the outermost barrier, the stratum corneum. So, drugs delivered with powderject's technology or Needle Free Injection (NFI) reach the circulatory system faster than those administered by subcutaneous injection, because it's an intradermal delivery and the capillary blood supply is immediately adjacent to where you're placing the drug.