

What equipment is needed?

The Urology Model however, the 2500V jet injector comes with the following:

1 No Needle Injector with straight head tip, pressure setting of 6 foot-pounds. The injector is made of stainless steel and is fully autoclavable. The straight head tip and pressure setting are optimal for vasectomy anesthesia.

2 Stainless Weiss Injector Sheaths for Extended Tips. This sheath fits right over the vas deferens to ensure precision. This removable sheath is the only part of the instrument that touches the patients' scrotum. This allows you to continue using the injector on other patients after changing the sheath.

1 Jet injector holder. The injector should be held "nose down" whenever loaded with solution. This helps to avoid corroding the inner mechanisms. The holder is designed to facilitate this.

3 Pyrex glass fill chambers. These chambers hold the anesthetic while the injector is loaded.

2 Extended tips. These tips unscrew and can be replaced if ever necessary.

1 Wrench. For unscrewing the tips during maintenance.

1 Quart bottle of Non-Alcohol Germicide. (available in continental USA only)

3 Stylets. These help in the cleaning and maintenance.

1 Instruction Manual "No Needle Anesthesia for No-Scalpel Vasectomy"

1 DVD presentation "No Needle Anesthesia for No-Scalpel Vasectomy"

1 Carrying case with foam insert

3 Finger protectors (small, medium, & large). These finger coverings prevent self injury when injecting.

All materials for injection, education, and accessories are available at on the web at www.ameditech.com. Visit here for full pricing and ordering information. You can get 30 free personalized patient marketing brochures for letting the men in your area know that your practice is offering this exciting technique.

It has also been suggested that a physician have a needle syringe of lidocaine without epinephrine on hand until you are completely comfortable with the no-needle technique.

Frequently Asked Questions:

Question: How safe is jet injection and no-needle vasectomy?

Answer: No-needle anesthesia has been used for decades all over the world. The current technology represents an improvement over previous devices and is both safer and simpler than ever to perform. Because no-needle has been utilized primarily in the fields of dentistry, podiatry, etc, most urologists do not have the same measure of experience as physicians in these fields. However urologists and some in family practice have documented thousands of successful uses in vasectomy. The importance of proper usage of the Madajet jet injector as well as finger protection devices, and maintenance materials should be appreciated by all physicians using it. In so doing, many urologists quite proficient in using no needle anesthesia in vasectomy, have described it as a simple and safe technique

Question: Is it actually pain free?

Answer: As mentioned earlier when the injector is fired the patient feels a sensation that's been described as similar to a thin rubber band being snapped against the skin. In an article published by Weill Medical College of Cornell University it was noted that in "1,391 patients anesthetized using the no-needle technique, the average visual analogue scale (VAS) pain score for the injection was 1.65 of a maximum 10. The average VAS score during the surgical procedure was 0.67."

Question: How large of an area is anesthetized?

Answer: The injection stream penetrates about 4 mm into tissue, and disperses to about 1.0 to 1.5 cm in diameter. The skin surface may blanch and a pin-point entry site may be visible. Penetration may cause a tiny drop of blood to appear. The injection site entry point will be roughly equivalent in size to the puncture made by a 26-30 gauge needle.

Question: Can I use the unit for other things?

Answer: There are reports of urologists using the injectors for injections other than vasectomy anesthesia. However these are primarily outside the United States. We can only suggest that if you plan to perform other in-office procedures with your Jet Injector unit, make sure that the pressure settings of your Jet Injector are appropriate for the other procedures. If not, you will need a separate Jet Injector unit set to the appropriate pressure settings. Most in-office procedures are best done with a 4 to 4.5 foot-pounds injection pressure. The units are NOT user-adjustable because the springs used must be selected and calibrated.

Question: How long will it be before I'm proficient in it?

Answer: Most physicians become quite comfortable using the jet injector in only a matter of weeks. This is in part due to the excellent training DVD and manual each unit is shipped with.

Disclaimer: This article is for informational purposes only with information supplied by Advanced Meditech International, Inc. and physician users. Every effort has been made to ensure that the information is accurate. However, users accept all responsibility for verifying the usefulness of the information, taking any and all precautions, and determining the safe and proper medical use and settings of any jet injector.

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No-Needle Anesthesia Vasectomy

Increased Comfort, Reduced Anxiety

- Explaining the technique.
- What are the advantages?
- What equipment is needed?
- FAQ's

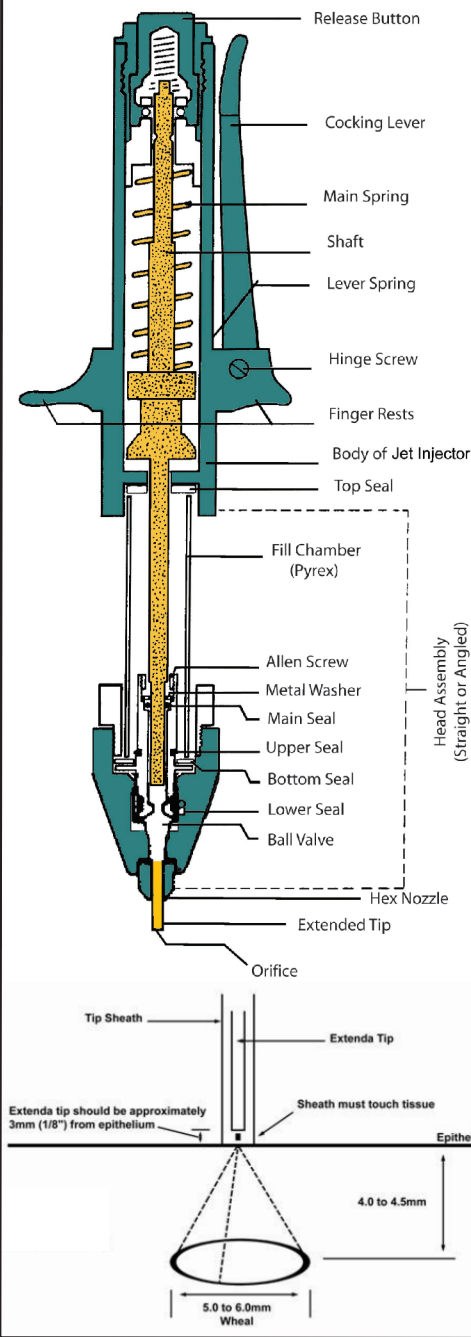
Explaining the technique

Among the first things noted about the no-needle technique is the fact that nothing except the anesthetic solution penetrates the patient. This is accomplished using a pen sized jet injector device. A spring in the injector that compresses a small internal piston is released by pushing a button. The internal piston produces high pressure. The anesthetic solution is then sprayed from the high-pressure chamber through a calibrated nozzle. The patient generally feels a light thump on the skin.

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No-Needle Jet Injector

with Extended Tip



Your patients will be relieved to learn that anesthesia without a syringe is possible. Since this technique is now flourishing in North America and other countries, a firm standard of performing it is just now being established. However, one method which has gained wide acceptance is as follows:

1. The scrotal skin is cleansed with alcohol.
2. The right vas deferens is isolated using the three finger technique used in the no-scalpel approach.
3. The first injection is made over the right vas deferens just below the intended vasectomy entry site at the junction of the upper 1/3 and lower 2/3 of the scrotum on the median raphe.
4. Without releasing the 3 finger hold, the injector is re-cocked (using the lever on the side) against the physicians left wrist. Then a second and then a third injection (must re-cock between injections) are made over the right vas near the entry site.
5. The same technique is repeated on the left vas deferens. After anesthesia, the scrotum is prepped for a standard no-scalpel approach.

It's been noted by several physician's that vasectomy patients are amazed at how simple and comfortable this technique is when compared to traditional needle injection. A more detailed explanation of the technique is given in various articles on www.ameditech.com. Click into the Medical Info section under No Needle Anesthesia – Vasectomy.

Call Toll Free: 800-635-2452

The Advantages

It's natural for a man to have moderate anxiety and apprehension about having a vasectomy. Some practices have reported that couples telephone their offices asking for the "spray technique vasectomy" or the "needle-less technique". As information about the no-needle technique has become more accessible to the general public, many practices have desired to be the first or only practice in there area to offer an increased comfort vasectomy using no-needle.

In addition to this, the anesthesia produced by the jet injector is rapid and more precise than that of the standard syringe-and-needle system. There is no "pooling" of the anesthetic solution and the onset of anesthesia is almost immediate.

Also, there is virtually no chance that the physician or office staff can suffer cross contamination from a patient when using the jet injector device. Overall, the volume of medical waste associated with the use of this device is also greatly reduced, compared syringe-and-needle system used in most physicians' offices.

In a study of 465 patients titled No-Needle Jet Anesthetic Technique for No-Scalpel Vasectomy, doctors Ronald S. Weiss, M.D. and Philip S. Li, M.D conclude" The average volume of anesthetic solution per injection was 0.1 cc. Therefore, the total volume used in an entire vasectomy procedure was about 0.6 cc, a fraction of that required using conventional needle delivery of up to 3 cc per vas and about 6 cc per vasectomy." This is a significant benefit to practices that already have a consistent flow of vasectomy patients. The study continues "It cost approximately US \$0.07 dollar for the anesthesia. Therefore, it could lead to a significant cost savings in high volume vasectomy practices."

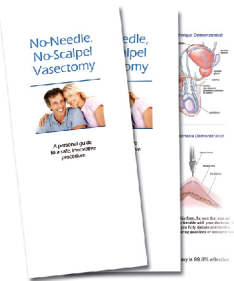
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with **big** rewards.

- **Decreased fear of procedures**
- **Less expensive local anesthesia**
- **More precise local anesthesia**
- **Attracts new patients**



Item
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Attract more patients by marketing a no-needle vasectomy

Many men have already read about the no-needle vasectomy. In fact, some practices report that men regularly telephone their offices asking for a needle-less vasectomy.

Using a cost efficient marketing brochure, many practices have been the first or only practice in their area to offer a no-needle procedure.