No-Scalpel Vasectomy Workshop





Michel Labrecque MD PhD
Université Laval
Québec, Canada

John Curington MD Tampa, Florida

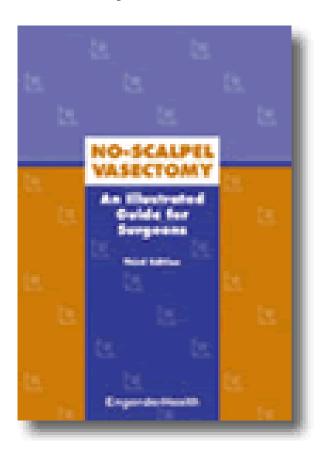
Objectives

- At the end of this workshop, you should be able to simulate all the technical steps of No-Scalpel Vasectomy
 - 3-finger technique to isolate the vas
 - Anesthesia with a mini-needle
 - Delivery of the vas with the no-scalpel technique
 - Occlusion of the vas with mucosal cautery and fascial interposition

Instructions

- 2-3 trainees per scrotal model with a trainer
- Presentation for right-handed surgeons...
 - Right-handed stands on right side of the patient
 - Left-handed stands on the left side of the patient

No-Scalpel Vasectomy



Sexual Function/Infertility

Minimizing Pain During Vasectomy: The Mini-Needle Anesthetic Technique

Grace Shih, Merlin Njoya, Marylène Lessard and Michel Labrecque*

From the Department of Family and Community Medicine, University of California-San Francisco (GS), San Francisco, California, and Research Centre of the Centre Hospitalier Universitaire de Quebec (MN, ML) and Department of Family and Emergency Medicine, Laval University, Outhbec City (ML), Outhbec Canada.

Purpose: We describe pain scores for a modified anesthesia technique for noscalpel vasectomy using a 1-inch 30 gauge mini-needle.

Materials and Methods: A prospective study was performed in 277 patients who received anesthesia using a 3 cc syringe filled with approximately 2 cc 2% lidocaine without epinephrine and a 1-inch 30 gauge needle. Local anesthesia was given directly to the vas at the expected surgical site on each side.

Results: Mean \pm SD pain intensity score on the 10 cm visual analog scale was 1.5 \pm 1.6 (95% CI 1.3-1.7) during the anesthesia and 0.6 \pm 1.0 (95% CI 0.5-0.7) during the procedure. Patients experienced less pain during anesthesia and the procedure than they expected before vasectomy (average 3.1 \pm 1.8, 95% CI 2.8-3.3)

Conclusions: The mini-needle technique provides excellent anesthesia for no-

Abbreviations and Acronyms

EMLA = eutectic mixture of local anesthetics

NSV = no-scalpel vasectomy

SCB = spermatic cord block

VAS = visual analog scale VDS = visual descriptive scale

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Vasectomy Occlusion Technique Combining Thermal Cautery and Fascial Interposition

Michel Labrecque

Research Center, Hôpital Saint-François d'Assise, Centre Hospitalier Universitaire de Québec, Ouébec, Canada

ABSTRACT

Introduction: Recent research on vasectomy shows that combining cautery and fascial interposition (FI) achieves the most effective occlusion of the vas and minimizes the risk of failure. We present a technique that combines cautery and FI and is suitable for low-resource settings.

Surgical Technique: The surgical technique consists of 1) exposing the vas with the no-scalpel approach; 2) cauterizing the epithelium of lumen of the vas using a portable battery-powered cautery device; 3) performing FI by grasping internal spermatic fascia and applying a free tie with suture material on the fascia to cover the prostatic stump of the vas and separate the two ends of the cut vas; and 4) excising a small 0.5 to 1 cm of the testicular stump.

Comments: To maximize vasectomy effectiveness, vasectomy providers should consider learning thermal cautery and FI to occlude vas deferens.

The Surgical Steps of Vasectomy

Step 2: Vas Isolation and Delivery

Step 1: Anesthesia





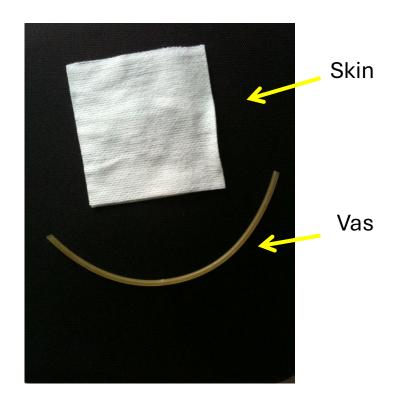
Step 3: Vas Occlusion



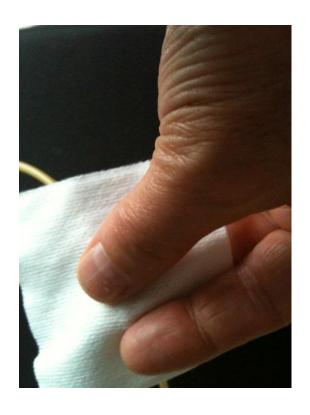
Three-Finger Technique

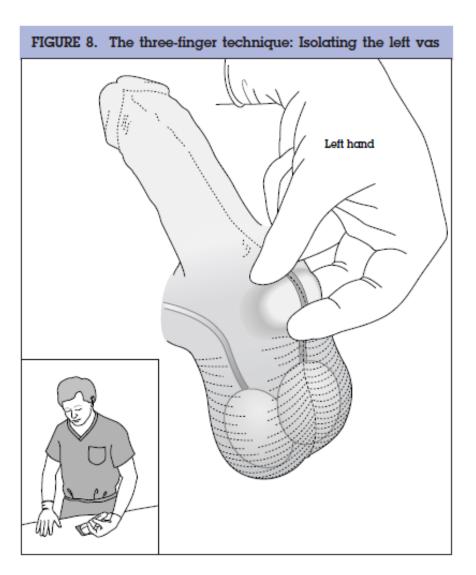


A Simple Model...

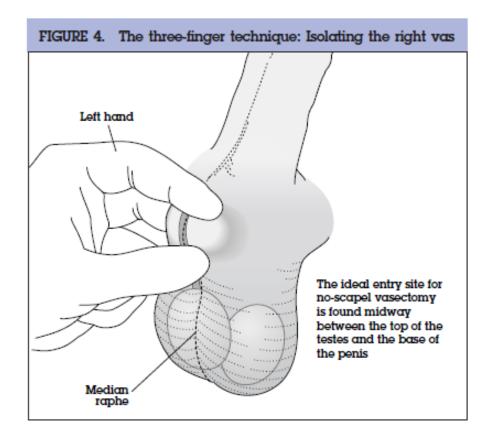


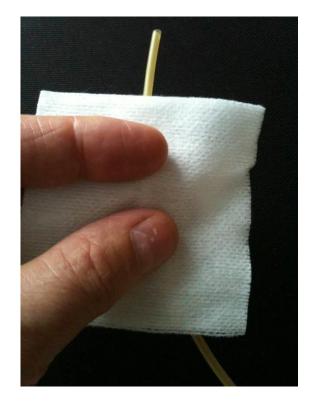
Left Vas





Right Vas





Practice



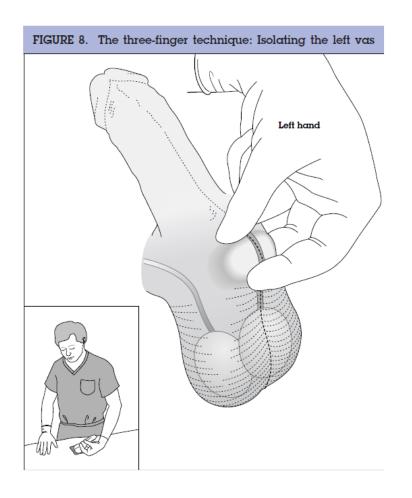
Three-Finger Technique

3-Finger Technique (Right Handed/Left Side)



Left hand/Left hip against the table

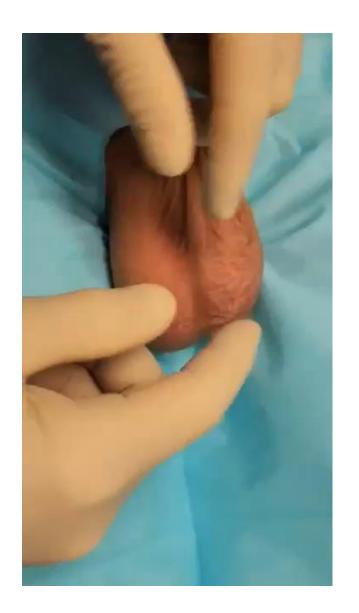
Catching the Vas



- Thumb on the median raphe in the upper third of the scrotum
- Middle finger acting as a hook under the scrotum
- Don't use the index finger at that time.

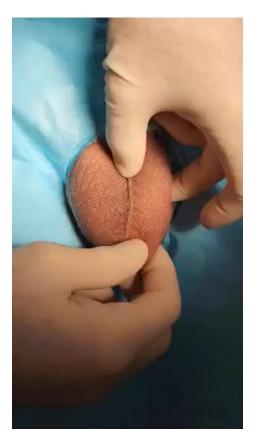
<u>Tip</u>: Gripping and lifting the skin helps putting your middle finger under the scrotum





Catching the Vas





With thumb and middle finger

- Push downward
- Gently pinch
- Slide up and away from you

<u>Tips</u> for catching the vas

- Moist scrotal skin makes it easier
- Middle finger raking from below controls catching the vas
- Your are looking for a firm, round structure
- Both vasa are usually the same size: Vermicelli,
 Spaghettini or Spaghetti al dente
- If not 100% sure: it's probably not the vas!

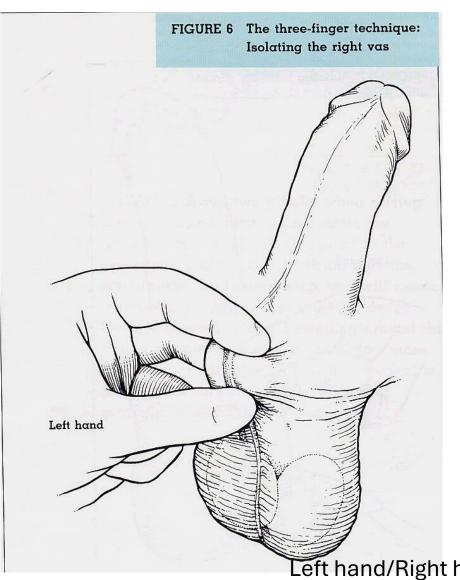
Securing the Vas on Median Raphe

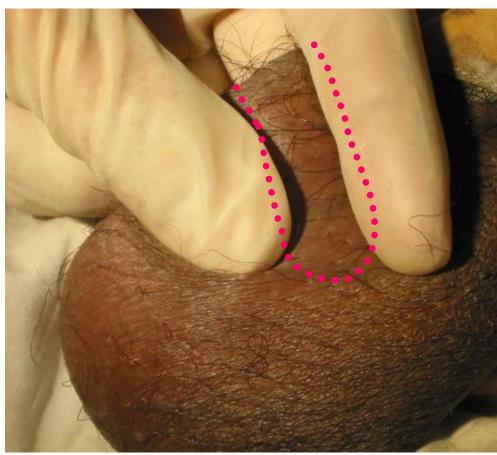




 Put one finger of your right hand on the tip of the middle finger of the left hand before lifting you left thumb

3-Finger Technique (Right Handed/Right Side)





Left hand/Right hip against the table

Practice



Vas Isolation