



Urmia University of Medical Sciences
School of Medicine
Short course plan

NO-SCALPEL VASECTOMY (NSV) TRAINING CURRICULUM

Learning Objective

This curriculum is short training course designed to train vasectomists and to provide safe, effective no-scalpel vasectomy (NSV) services.

NSV training course outline

Entry requirements /admission criteria: Trainees could be one of the following groups:

- General practitioners (GPs),
- Family medicine professionals,
- Urologists,
- General surgeons,
- OB/GYN specialists.

Duration of the training course

10 working days

Needed vasectomy cases during the course

10 NSV cases are needed for trainees` observation and each trainee must operate 10 cases as main operator.

Training site

International NSV Training Center, Urmia University of Medical Sciences, Kashani Street, Urmia, Iran for theoretical sections and other countries for practical sections

Chief NSV trainer

Hamidreza Farrokh-Eslamlou, MD, PhD, Professor of Maternal&Child Health, International NSV Trainer and National Reproductive Health Counseling Trainer

Learning aspects

Cognitive, Attitude and Skill

Learning methods

Knowledge based and practical based learning

Monitoring and evaluation methods

Using the following forms:

- Daily monitoring and observation form
- Counseling monitoring check list
- NSV clinical skills check list

Training materials

The centre includes the following components:

1. Training materials – Curriculum, course materials – reference manual, participant`s handbook, trainer`s manual, educational kits, anatomic models on NSV and for condom use, audiovisual aids (NSV and other FP methods, STI and HIV) and NSV instruments.
2. Training institutions meet requisite criteria for each of the standards listed below:
 - Physical environment (including clinic facility and class room)
 - Training site meets criteria for clinical training
 - Equipment and supplies available as per recommended normsTraining site – high quality of services, enough case load, availability of standard equipment and instruments, infection prevention strategies (The center operates with a high level of quality)
3. Trainers: all trainers have requisite international qualification and experience,
4. Trainees: competent in provision of quality NSV service as per national standards on NSV.

Logistic and scientific support

The center is supported by:

- UNFPA
- MOHME
- Urmia University of Medical Sciences (UMSU)

Training course Fee

2500 USD (The course fees for participants covers the hotel, lunches and dinners, coffee breaks and the course bag.)

Training session content

As below:

No-Scalpel Vasectomy Training course

Urmia University of Medical Sciences, Urmia- Iran

Day	8:30-10:00 A.M.	10-10:30 A.M.	10:30 – 12:00 A.M.	14:00 16:00 P.M.
1	Participation at ceremonies of the international NSV training course		Module 1: Introduction	Module 2: Overview of Vasectomy
2	MODULE 3: Counseling and Informed Decision	entertainment	MODULE 3: Counseling and Informed Decision	MODULE 4: Anatomy and Physiology
3	MODULE 5: Pre-vasectomy Evaluation	entertainment	MODULE 6: Infection Prevention	MODULE 7: Scrotal Model Practice
4	MODULE 7: Scrotal Model Practice	entertainment	MODULE 8: Supervised Clinical and Surgical Practice	
5	Visiting Urmia health network	entertainment	MODULE 8: Supervised Clinical and Surgical Practice	
6	Meeting with senior Islamic leaders	entertainment	MODULE 8: Supervised Clinical and Surgical Practice	
7	MODULE 9: Post-vasectomy Care	entertainment	MODULE 8: Supervised Clinical and Surgical Practice	
8	MODULE 10: Management of Complications	entertainment	MODULE 8: Supervised Clinical and Surgical Practice	
9	Practice for final exam preparation	entertainment	MODULE 8: Supervised Clinical and Surgical Practice	
10	Final counseling evaluation	entertainment	Final clinical evaluation	

MODULE 1: Introduction

Purpose and Objectives

This curriculum is a clinical skills training course designed to train vasectomists to provide safe, effective no-scalpel vasectomy (NSV) services. Besides containing instructions on providing the NSV procedure, this course also contains information on counseling, informed consent, infection prevention, and management of complications, as well as supplemental materials on developing, maintaining, and publicizing a vasectomy service.



Materials and Supplies

- ✓ *No-Scalpel Vasectomy: An Illustrated Guide for Surgeons*, third edition, 2003.
- ✓ Scrotal model
- ✓ Dissecting forceps
- ✓ Ringed clamp
- ✓ Copy of the workshop agenda
- ✓ Copy of Knowledge Assessment Test

MODULE 2: Overview of Vasectomy

Purpose and Objectives

This module provides background information on vasectomy. Upon completion of this module, you should be able to:

- State how widely vasectomy is used, both locally and worldwide
- Summarize the history of NSV
- Explain the differences between NSV and standard incisional vasectomy
- Describe the local laws and regulations governing vasectomy



Materials and Supplies

- ✓ Module 2
- ✓ *No-Scalpel Vasectomy: An Illustrated Guide for Surgeons*, third edition, pages 1–4.

MODULE 3: Counseling and Informed Decision

Making for NSV

Purpose and Objectives

This module provides basic information on family planning counseling and informed decision making as they relate to vasectomy services. Upon completing this module, you should be able to:

- Define *family planning counseling* and *informed decision making*
- Explain the particular importance of family planning counseling for clients considering vasectomy
- Describe the steps to take in order to verify informed decision making

Materials and Supplies

- ✓ Module 4
- ✓ NSV Clinical Skills Checklist

MODULE 4: Anatomy and Physiology

Purpose and Objectives

This module provides information on the anatomy and physiology of the male genitourinary system.

By helping you understand the mechanism of action in vasectomy, this information is intended to help you in correctly performing a vasectomy. Upon completing this module, you should be able to:

- Describe male genitourinary anatomy and physiology
- Describe the anatomy of the spermatic cord and its internal structures
- Explain the effects of vasectomy on male reproductive anatomy and physiology

Materials and Supplies

- Module 3

MODULE 5: Pre-vasectomy Evaluation

Purpose and Objectives

This module provides the information necessary for participants to physically evaluate whether a client is a good candidate for a vasectomy. Upon completing this module, you should be able to:

- List the elements of the medical history that should be included in a pre-vasectomy assessment
- Perform a genital examination
- Identify conditions that indicate certain precautions should be taken before or during the procedure

This module covers the prevasectomy medical history, genital examination, and identification and management of conditions that indicate vasectomy precautions.

Materials and Supplies

- ✓ Module 5
- ✓ NSV Clinical Skills Checklist

MODULE 6: Infection Prevention

Purpose and Objectives

This module provides the information necessary for participants to perform or supervise the infection prevention procedures used in providing NSV services. Upon completing this module, you should be able to:

- Identify who is at risk of infection in the health care facility

- Explain how infections are transmitted among clients, health care workers, and the community via the health care setting
- Explain what standard precautions are
- Explain health worker's responsibility in infection prevention
- Demonstrate the appropriate infection prevention procedures to follow before, during, and after vasectomy
- Identify facility and supply requirements that reduce the risk of infection during vasectomy



Materials and Supplies

- ✓ Module 6
- ✓ NSV Clinical Skills Checklist (see Appendix B)
- ✓ *Infection Prevention. A Reference Booklet for Health Care Providers.*

MODULE 7: Scrotal Model Practice

This module emphasizes surgical skills development through practice with the scrotal model. If you are preparing independently for this module, you should:

- Study this module.
- Study Chapters 4 and 5 in *No-Scalpel Vasectomy: An Illustrated Guide for Surgeons*.
- Familiarize yourself with the NSV Clinical Skills Checklist (see Appendix B).
- Take the self-assessment at the end of this module.
- Write down any questions you have about this module for later discussion with the trainer.



Materials and Supplies

- ✓ Module 7
- ✓ *No-Scalpel Vasectomy: An Illustrated Guide for Surgeons* (Chapters 4 and 5)
- ✓ Scrotal model
- ✓ Dissecting forceps
- ✓ Ringed clamp
- ✓ Suture material or cautery instruments
- ✓ Scissors for cutting suture
- ✓ Needle and syringe
- ✓ Clipboard (or another means of securing the model)

MODULE 8: Supervised Clinical and Surgical Practice

Purpose and Objectives

This module provides the information and skills practice necessary for participants to perform NSV correctly, safely, and effectively. Upon completing this module, you should be able to:

- Competently perform all the steps of the NSV procedure as described in the NSV Clinical Skills Checklist
- Demonstrate empathetic support of the client during the surgical procedure
- Exhibit the use of proper infection prevention techniques throughout the surgical procedure



Materials and Supplies

- ✓ Module 8
- ✓ *No-Scalpel Vasectomy: An Illustrated Guide for Surgeons*
- ✓ NSV Clinical Skills Checklist
- ✓ Instruments, equipment, and supplies needed to perform NSV

MODULE 9: Post-vasectomy Care

Purpose and Objectives

This module provides the information and skills practice necessary for you to provide post-vasectomy care and instructions. Upon completing this module, you should be able to:

- Provide appropriate, immediate post-vasectomy care
- Discuss post-vasectomy care with clients
- Interpret semen-analysis reports correctly (if available)

This module covers immediate post-vasectomy care and communication with clients about post-vasectomy instructions. If you are preparing independently for this module, you should:

- Study this module.
- Adapt written post-vasectomy care instructions for use with clients at your facility.
- Take the self-assessment at the end of this module.
- Write down any questions you have about this module for later discussion with the trainer.



Materials and Supplies

- ✓ Module 9
- ✓ NSV Clinical Skills Checklist (see Appendix B)
- ✓ Copy of Sample Written Post-vasectomy Instructions for Clients

MODULE 10: Management of Complications

Purpose and Objectives

This module provides the information you need to prevent, recognize, and manage potential complications of vasectomy. Upon completion of this module, you should be able to:

- State how potential vasectomy complications can be prevented
- Identify and manage the most common complications

This module covers the management of potential intraoperative and postoperative complications

of vasectomy.



Materials and Supplies

- ✓ Module 10
- ✓ *No-Scalpel Vasectomy: An Illustrated Guide for Surgeons*, pages 3 and 4
- ✓ NSV Clinical Skills Checklist