

Training Exercisesand Skill Stations:

Participants workbook for Early Infant Male Circumcision training in Kenya

ATTRIBUTION OF SUPPORT

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Disclaimer

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The Ministry of Health through the National AIDS and STI Control Program(NASCOP) is pleased to publish and disseminate the trainning exercises and skills station:Participants workbookfor Early Infant Male Circumcision (EIMC) Training in Kenya.

This workbook was adapted from the World Health Organization's (WHO) Manual for EIMC under local anesthesia, and updated using the most recent experiences and evidence from sub-Saharan African countries, including Kenya.

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I call upon all the service providers in public and private health sector and partners working in VMMC-EIMC programs in Kenya to familiaze themselves with the contents of this workbook and use it in implementing their program activities.



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OVERVIEW

A. INTRODUCTION

The Kenya EIMC Training programme consists of theoretical and practical sessions in the first two days, followed by three days of learning to and performing the EIMC procedure monitored by a qualified master trainer in EIMC. Each participant is required to achieve 80% overall mark in the assessment of the theoretical component, and the master trainer will assess proficiency in performing the EIMC procedure before the participant can qualify and pass the course. Each participant must do a minimum of 10 procedures. However, if the master trainer does not feel that the participant has become proficient in performing the EIMC procedure, he / she may be requested to perform more than 10 procedures before being considered proficient. This should be done after didactic period.

Proposed sessions to be covered over the ten days of training						
DAY 1	DAY 2	DAY 3	DAY 4	DAY 5-10		
Welcome and orientationPre-Course AssessmentChapter 1 to 5	 Chapter 6-11 Instructor demonstration of procedure on model 	Skill Stations, instructor demonstration of procedure on model	EIMC surgeryMidcourse assessment	EIMC surgery		

The training course is designed and conducted per adult learning principles—learning is participatory, relevant and practical—and:

- Uses behaviour modelling
- Is competency-based
- Incorporates humanistic training techniques

BEHAVIOUR MODELLING

Social learning theory states that when conditions are ideal, a person learns most rapidly and effectively from watching someone perform (model) a skill or activity. For modelling to be successful, the trainer must clearly demonstrate the skill or activity so that participants have a clear picture of the performance expected of them.

Learning to perform a skill takes place in three stages. In the first stage, skill acquisition, the participant sees others perform the procedure and acquires a mental picture of the required steps. Once the mental image is acquired, the participant attempts to perform the

procedure, usually with supervision. Next, the participant practices until skill competency is achieved and the individual feels confident performing the procedure. The final stage, skill proficiency, only occurs with repeated practice over time.

COMPETENCY-BASED TRAINING

Competency-based training (CBT) is distinctly different from traditional educational processes. Competency-based training is learning by doing. Moreover, CBT requires that the clinical trainer facilitate and encourage learning rather than serve in the more traditional role of instructor or lecturer. Competency in the new skill or activity is assessed objectively by evaluating overall performance. For CBT to occur, the clinical skill or activity to be taught first must be broken down into its essential steps. Each step is then analyzed to determine the most efficient and safe way to perform and learn it.

HUMANISTIC TRAINING TECHNIQUES

A major component of humanistic training is the use of anatomic models, which closely simulate the human body, and other learning aids such as videotapes. The effective use of models facilitates learning, shortens training time and minimizes risks to clients.

Before a participant attempts a clinical procedure with a client, two learning activities should occur:

- The trainer should demonstrate the required skills and client interactions several times using an anatomic model and appropriate audiovisual aids.
- While being supervised, the participant should practice the required skills and client interactions using the models on actual instrument in a simulated setting which is as similar as possible to the real situation.

Only when skill competency and some degree of skill proficiency have been demonstrated with models, however, should participants have their first contact with clients.

B. COMPONENTS OF EIMC TRAINING PACKAGE

This training course is built around use of the following components:

- A participant's workbook containing pre-course assessments, a detailed course outline, a series of practice exercises to guide the participant through the self-study portions of the course, and learning guides which break down the skills or activities into their essential steps.
- A trainer's guide, which includes answer keys, the course outline, and competency-based assessment tools.
- Training aids, such as anatomical models and videos.

The reference manual recommended for use in this course is the *Guidelines for EIMC in Kenya* which contains information on the basics of early infant male circumcision and, basic counseling skills, and the recommended standard EIMC device for Kenya [the Mogen Clamp and procedures.

C. USING THE TRAINING PACKAGE

As the participant moves through a series of activities (e.g., reading information, observing the trainer, completing practice exercises, practicing clinical skills using role plays and anatomic models, working with parent/guardians and infants), there are corresponding activities for the trainer. The focus, however, is always on the participant.

Essential to this course are three basic components. All of the training activities in which the participant, trainer and supervisor are involved relate to one or more of these components:

- Transfer and assessment of the essential knowledge related to Early Infant circumcision (EIMC). This knowledge is found in the reference manual, Manual for Early Infant Male Circumcision under local anesthesia for Kenya and is reinforced through various practice exercises, and by interaction with the trainer.
- Transfer and assessment of counseling and clinical skills using role plays and anatomic models and in clinical situations with parents and guardians. The skill demonstrations are provided by the trainer and the participant will demonstrate that he/she can competently provide counseling, pre-operative screening, use of devices for circumcision and post-operative and follow-up care, management of complications, and link to other infant and child health care services.
- Demonstration and practice is first conducted through role plays / simulations and using models to achieve an acceptable level of competence and confidence in simulation.
- Next, learning progresses to work with clients consisting of skill demonstrations, modelled by the trainer, and the participant practicing with coaching from the trainer and eventually demonstrating that she or he can competently perform the skill.
- Attitude transfer through practice exercises and behaviour modelling by the trainer and interaction with the parents/guardians.
- The course is designed to be flexible, and the schedule can vary according to the specific situation and program needs. Key to the success of this individualized, self-paced, program is the motivation of the participant and trainer. The participant must be willing to read, study, attend virtual classes, complete assignments and work independently while staying on a schedule, in order to complete training in a reasonable period of time. The participant also must be willing to observe the trainer and ask questions. The trainer must be willing to take the necessary time to mentor, teach and work closely with the participant, in addition to providing quality services, throughout the course.

This training course is built around use of the following elements:

- The Guidelines for EIMC in Kenya. Participants course Workbooks, Trainer's Handbook and videos.
- Other resources and materials that can be used for your own reference are:
 - The Quality Assurance and Facility Assessment Tools for EIMC in Kenya
 - www.malecircumcision.org
 - Other references as necessary

D. COURSE DESIGN

This training course is designed for clinical service providers (Medical officers, clinical officers and nurses). Training emphasizes doing, not just knowing, and uses competency-based evaluation of performance.

- At the beginning of the course, participants are oriented to the program and their knowledge and basic skills are assessed using a Pre-course Questionnaire and skill assessment.
- Participants' are responsible for much of their theoretical learning, although the trainer will facilitate this portion of the training with presentations, guided practical sessions, videos and other teaching aids.
- Progress in knowledge-based learning is measured during the course, through completion of the practice exercise.
- Interaction with the trainer focuses on clarifying their individual learning, and on acquiring skills and attitudes necessary for quality services through simulations, demonstrations and coached practice in all the essential aspects of providing EIMC services.
- Progress in learning procedures using the Mogen Clamp is documented using appropriate checklists.
- Successful completion of the course is based on mastery of both the knowledge and skill components.

E. EVALUATION

This course is designed to produce individuals qualified to use the Mogen Clamp for EIMC procedures and services. Qualification is a statement by the training organization that the participant has met the requirements of the course in knowledge and skills.

Qualification is based on the participant's achievement in two areas:

- Knowledge Knowledge transfer as measured by a score of 80% or more on all the exercises for each chapter.
- Skills—Satisfactory performance of recommended procedures during a simulated practice session with anatomic models and with clients

COURSE SYLLABUS

A. COURSE DESCRIPTION

This course is designed to prepare participants to acquire the knowledge, skills and attitudes needed to provide EIMC services in Kenya.

B. COURSE GOALS

- To foster a positive attitude towards EIMC in Kenya
- To provide participants with knowledge and skills needed to provide education and counseling services
- To provide the participants with the knowledge and skills needed to establish quality assurance measures for EIMC at health facilities

C. PARTICIPANT LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Describe EIMC and its benefits and risks
- Educate and counsel parents and/or guardians about EIMC
- Effectively screen male infants for circumcision
- Demonstrate competency in performing EIMC with the Mogen Clamp
- Provide postoperative care follow up and identify and manage adverse events resulting from EIMC
- Prevent infection in the health care setting
- Monitor and evaluate EIMC services

D. TRAINING/LEARNING METHODS

- Guided, individualized learning
- Case studies
- Role play

- Video
- Simulation
- Demonstration
- Coaching
- Guided practice activities

E. TRAINING MATERIALS

This training course is built around use of the following elements:

- The Guidelines for EIMC in Kenya
- The Quality Assurance and Facility Assessment Tools for EIMC in Kenya
- A Participant's Workbook
- A Trainer's Handbook
- Anatomic models

F. PARTICIPANT SELECTION CRITERIA

Participants for this course should be clinicians (Doctors, Clinical officers and Nurses) who will act as either primary or secondary providers of EIMC within their facilities, and who preferably are working at maternal, newborn and child health clinics or at adult VMMC clinics.

G. METHODS OF EVALUATION

- Questionnaire
- Chapter exercises and skill stations
- Mid-course questionnaire
- Assessment of EIMC procedures conducted on patients with the Mogen Clamp

PRE-COURSE QUESTIONNAIRE

Please select the most appropriate answer, and **CIRCLE** it.

1. Where is EIMC being performed in the world?

- a. In the United States only.
- b. Only among people of Jewish and Muslim faiths.
- c. In many parts of the World and in many different cultures for many different reasons.
- d. In western countries for cosmetic reasons only.

2. Male circumcision has been shown to reduce female to male transmission of HIV. What has led the World Health Organization to make this conclusion?

- a. There is no scientific proof that this is true
- b. Evidence from animal models.
- c. Three large randomized controlled trials enrolling over 10,000 men.
- d. There is so little benefit from male circumcision; it is difficult to prove it helps prevent HIV

3. Routine, clinic based, infant male circumcision is not recommended in which of the following cases?

- a. Preterm (< 37 weeks gestational age)
- b. Low birth weight (< 2,500 grams)
- c. Acute life threatening illness
- d. All of the above

4. Which criteria should be met before infant male circumcision is considered?

- a. No family history of bleeding disorders
- b. Normal physical exam
- c. Completely normal, intact prepuce
- d. All of the above

5. What is the standard anesthetic agent and dose that is drawn up into the syringe and used for a dorsal penile nerve block for an infant (the entire dose that is to be injected in two locations)

- a. 1 ml, 10% lidocaine WITHOUT epinephrine/adrenaline
- b. 10 ml, 2% lidocaine WITH epinephrine/adrenaline
- c. 1 ml, 1% lidocaine WITHOUT epinephrine/adrenaline
- d. 1 ml, 1% lidocaine WITH epinephrine/adrenaline

6. Prior to injecting lidocaine for a dorsal penile nerve block what precaution should be taken?

- a. Aspirate to ensure the needle is not in a vessel
- b. Ensure the lidocaine does not contain epinephrine/adrenaline
- c. Ensure the lidocaine bottle, needle, and syringe are sterile
- d. All of the above

7. Which is true pertaining to conscious sedation and EIMC?

- a. It should always be used to help alleviate pain and discomfort.
- b. It should never be used for routine, elective EIMC.
- c. There are no serious complications that can occur when administered to infants.
- d. Conscious sedation is routine and can be provided anywhere.

8. The surgical pen mark should be made at the level of the corona. What is the best way to determine where to make the mark?

- a. Measure down 1.5 cm from the tip of the penis.
- b. Visualize and palpate the ridge at the widest part of the glans.
- c. Estimate based on the length of the penis.
- a. It does not matter where the incision is made.

9. If the pen mark cannot be properly aligned to the mogen clamp blade during the procedure, the next step should be?

- a. Stop and reassess the situation to determine why the pen mark cannot be aligned and if necessary abandon the procedure.
- b. Disregard the pen mark and complete the procedure anyway.
- c. Use excessive force on the tissue until the pen mark is aligned to the mogen clamp blade.
- d. Remove what foreskin you can and hope it is enough.

10. If adhesions between the prepuce and the glans are not adequately removed the following can occur?

- a. The glans can get inadvertently pulled into the clamp along with the foreskin and get injured.
- b. The adhesions can prevent the foreskin tissue from being properly aligned to the device blade.
- c. Adhesions that cannot be removed may represent an underlying urologic abnormality that would necessitate abandoning the case.
- d. All of the above.

11. While making a dorsal slit one blade of the scissors can inadvertently be placed into the urethra and cut the glans. How can this be avoided?

- a. Stretch the foreskin instead of using scissors to make a dorsal slit.
- b. Adequately remove any adhesions so that the foreskin is free and clear.
- c. Before cutting with the scissors, ensure the blade is tenting the foreskin and visible just beneath the foreskin tissue.
- d. All of the above.

12. Which of the following is a complication of the Mogen clamp that may occur more often if adhesions are not properly removed?

- a. Retained parts
- b. Distal tip penile amputation
- c. Mismatching parts
- d. Urinary retention

13. What should you do if an insufficient amount of foreskin was removed during the procedure?

- a. Draw another mark and perform the procedure again.
- b. Use scissors to remove any extra foreskin.
- c. Do not reattempt the procedure, reassure the family, follow the child, and if necessary at an older age consider a revision.
- d. Obtain immediate specialty consultation for further excision.

14. Following a Mogen procedure, what must the provider do to help minimize the risk of adhesions and a trapped penis?

- a. Deliver the glans by pushing the foreskin down around the base of the corona.
- b. Nothing
- c. Instruct the family to apply steroid cream so that no scar forms.
- d. Instruct the family to wash the area frequently to keep it moist.

15. What is the purpose of dressing the wound?

- a. Protect the wound from infection
- b. Minimize bleeding
- c. Minimize edema
- d. All of the above

16. What is the most effective, least expensive, least complicated and most readily available means to stop post circumcision bleeding?

- a. Epinephrine solution
- b. Silver nitrate
- c. Simple direct pressure and patience
- d. Suture

17. Regardless of the device used, why is it important to instruct the caregivers to gently retract the foreskin?

- a. This will ensure the wound does not contract above the glans and prevent a trapped penis
- b. This will help to prevent adhesions from forming between the surgical wound and wounds on the glans that occur where adhesions were removed
- c. This will help prevent adhesions from forming between the remaining foreskin tissue and the glans
- a. All of the above

18. What is the best way to differentiate pus (evidence of infection) from normal wound healing?

- a. Pus is malodorous
- b. Pus is easily removed
- c. An infection associated with pus is unlikely to develop in the first 48 hours following circumcision
- a. All of the above

19. Which of the following is a concern following EIMC and should prompt care givers to seek immediate medical attention?

- a. Fever
- b. No urine output for more than 6 hours
- c. Infant is inconsolable or lethargic
- d. All of the above

CHAPTER COMPONENTS & EXERCISES

The section is to be used together, and refers to the Chapters, in the Guidelines for EIMC in Kenya.

CHAPTER 1: INTRODUCTION

LEARNING OBJECTIVES

- 1. Describe why male circumcision is performed.
- 2. Describe the 3-large randomized controlled trials that convincingly showed that male circumcision helps to prevent female to male heterosexual transmission of HIV.
- 3. Explain why programs that promote male circumcision in early infancy may have lower morbidity rates and lower cost than programs targeting adolescents and adult men. (More data in southern/eastern African settings needed)
- 4. List benefits and risks associated with EIMC.

DESCRIPTION: These questions will review basic information on EIMC which you will find in Chapter 1 of the Guidelines for EIMC (EIMC) in Kenya. It will also help you look at the implications of this information for programs and impact in your area.

Answer the following questions before you read the chapter.

- a. How would you define EIMC?
- b. What are the most common reasons for performing EIMC?
- c. List at least two indications and two contraindications for male circumcision
- d. What are the potential benefits of EIMC?
- e. What are the risks involved in EIMC?

Now Read Chapter 1

Now that you have read the chapter, would you change your answers to the same questions? If so, describe how you would answer them differently now:

- 1. How would you define EIMC?
- 2. What are the risks involved in EIMC?
- 3. What are the potential benefits of EIMC?

- 4. Describe, in brief, the evidence that supports the conclusion that male circumcision reduces the risk of HIV acquisition.
- 5. What are some of the reason why infants are circumcised in general?
- 6. In the three randomized, controlled clinical trials of male circumcision conducted in Africa, what was the approximate percentage of risk reduction for HIV acquisition associated with male circumcision? (circle the best answer)
 - a. 20-40%
 - b. 70-80%
 - c. > 80%
- 7. In order to prevent HIV, when do you think the best age(s) would be for boys or men to be circumcised? (circle the best answer/answers there can be more than one answer)
 - a. In early adulthood
 - b. After marriage
 - c. At any age
 - d. Why did you choose the answer(s) you did?
- 8. What are the advantages of performing male circumcision in early infancy over adolescence and adults?

CHAPTER 2: **OVERVIEW OF FACILITY AND EQUIPMENT REQUIREMENTS**

LEARNING OBJECTIVES

1. Describe the supplies and resources needed for EIMC services.

DESCRIPTION: this chapter address the supplies and resources needed to start and/ or sustain EIMC programs. Please respond to the questions briefly after exploring the situation in your facility:

- 1. In your facility, making sure supplies and resources are available for services is whose responsibility?
- 2. What is your role in assuring supplies and equipments are appropriate for early infant circumcision?
- 3. After reviewing the list of supplies in the early infant circumcision manual do you think your facility can make the supplies available for services?

CHAPTER 3: LINKAGES TO CARE AND COUNSELING

LEARNING OBJECTIVES

- 1. Explain the role of group education and individual counseling in EIMC.
- 2. To describe the process of linkage and referral of EIMC clients to other service delivery points
- 3. Describe the key components of educating and counseling parents and guardians on EIMC.
- 4. Demonstrate counseling skills needed to counsel parents or guardians about EIMC.

DESCRIPTION: Read through the case study below and answer the questions. Refer to the chapter, as well as your clinic records and consult your colleagues, if necessary.

Case Study:

Baby John is a 3 week old male neonate. John's mother heard the news about free EIMC services in the health center and that is why they are here. John was delivered at home. John's father is a small-scale business man and is NOT in favour of circumcision at a hospital or clinic. He prefers his son to go for traditional circumcision because he remembers how two of his adult neighbors died 3 years ago, at a hospital after an operation. You have however managed to get the family together for a counseling session.

- 1. What challenges are you likely to encounter during the counseling session?
- 2. Recap the 9 basic counseling skills required by a counselor as summarized in the manual.
- 3. Which of these counseling skills would you apply in this case? Justify each of them.

CHAPTER 4: **SCREENING FOR EIMC**

LEARNING OBJECTIVES

- 1. Describe the importance of a thorough history taking and physical examination in EIMC.
- 2. List contraindications for EIMC.

Description: Review chapter 4 and provide brief answers to the question below

- 1. What are the FIVE eligibility criteria for routine EIMC?
- 2. Please mark TRUE or FALSE

	Condition	This is a Contraindication for Infant Circumcision		
		True (√)	False (√)	
1.	Megalourethra with deficiency of corpus spongiosum			
2.	Weight 2.6kg			
3.	Absence of Ventral Foreskin			
4.	Hypospadias			
5.	Penile Torsion			
6.	Is first born for the family			
7.	Bilateral hydrocele			
8.	Bleeding disorder			
9.	One parent is Asthmatic			
10.	Penoscrotal webbing			

CHAPTER 5: **OVERVIEW OF ANAESTHESIA AND PAIN MANAGEMENT**

LEARNING OBJECTIVES

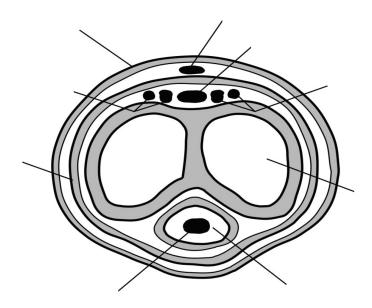
- Explain why local anesthesia is recommended in EIMC.
- Describe the standard anesthetic solution and dose used for a dorsal penile nerve block for an infant.
- Describe the location of important landmarks and technique used for administering a dorsal penile nerve block.

Description: Please review chapter 5 on the use of anaesthesia for EIMC and answer the following questions.

1. Please complete the advantage and disadvantage of the following during EIMC:

Anesthesia for Infant Circumcision						
	Advantage (write two)	Disadvantage (write two)				
General Anesthesia						
Local Anesthesia: Dorsal Penile Nerve Block (DPNB) only						
Local Anesthesia: Ring Block only						
Local Anesthesia: EMLA Cream Only						
Combination of any of the Local anesthesia						
NO Anesthesia						

2. Identify the different structures in this cross-sectional view of the shaft of the penis. (Write in the boxes shown)



CHAPTER 6: PROCEDURE PREPARATION

LEARNING OBJECTIVES

- 1. Describe the steps required to prepare for the EIMC procedure.
- 2. Describe the steps required to prepare the infant for the EIMC procedure.
- 3. Describe the importance of, how, and where marking of preputial skin to be removed should be made.
- 4. Describe the importance of removing adhesions between the foreskin and the glans and how this can be accomplished.
- 5. Explain what complications can occur while making the dorsal slit and how this complication can be avoided.

Description: Please review chapter 6 and answer the following questions.

- 1. List five things/steps that should be completed before starting an EIMC procedure:
- 2. List four key steps required to prepare the prepuce for circumcision:
- 3. Describe why it is important to mark and where the mark should be made and how the correct location of this mark can be confirmed.
- 4. Describe why it is important to remove the adhesions between the foreskin and the glans. Describe how this can be accomplished.

5. What precautions can be taken to ensure the urethra is not injured when making the dorsal slit?

CHAPTER 7: SURGICAL TECHNIQUE

LEARNING OBJECTIVES

- Describe how the tip of the penis can be amputated when using a Mogen Clamp.
- Explain why the Mogen Clamp was chosen for use in Kenya.
- Describe how EIMC is performed using the Mogen clamp.
- Describe the complications that can occur with the Mogen Clamp and how they can be avoided.

Description: Please review chapter 7 on the recommended surgical technique for EIMC in Kenya and answer the following questions.

- 1. Describe how the tip of the penis can be amputated while using a Mogen clamp.
- 2. Why was the Mogen Clamp chosen as the device to be used in the Scale-Up of EIMC in Kenya?
- 3. Why is it important to check the gap distance (aperture) of a Mogen clamp?
- 4. What is the purpose of the dorsal haemostat when performing a circumcision using the Mogen clamp?
- 5. What precautions can be used to ensure the tip of the penis does not get amputated when using a Mogen Clamp?
- 6. After removing the Mogen Clamp, why is it necessary to liberate (pop-up) the glans?

CHAPTER 8: POST-OPERATIVE CARE

LEARNING OBJECTIVES

- 1. Describe how applying an appropriate wound dressing can protect the wound from infection, help control bleeding, and reduce edema.
- 2. Describe how a dressing should be applied following EIMC, when and how it should be removed.
- 3. Explain and discuss precautions that should be reviewed with care givers following EIMC.
- 4. Describe the difference between normal wound healing and an infection.
- 5. Explain how to prevent adhesions and to prevent the wound from sticking on the diaper.

Description: Please review chapter 8 on post-operative care for EIMC and answer the following questions.

- 1. List three benefits of applying a circumcision dressing.
- 2. When should a circumcision dressing be removed?
- 3. Can a circumcision dressing be removed earlier?
- 4. Why would someone want to remove a circumcision dressing earlier than 48 hours?
- 5. Read each characteristic below pertaining to a yellowish discharge, the appearance of the infant's penis and general condition of the infant and circle the most likely diagnosis:

Characteristic	Diagnosis	
Difficult to remove		Infection
Easy to remove	Normal wound healing	
Malodorous	Normal wound healing	
No odor		Infection
At 48 hours is looking worse	Normal wound healing	
At 48 hours is looking better		Infection
Fever	Normal wound healing	

- 6. After an infant male circumcision procedure, there can be multiple wounds, the skin edge and areas on the glans where adhesions were removed. If these wounds are not separated they can heal together causing complications. What precautions can be taken to ensure these wounds heal independently?
- 7. How often should Petroleum jelly be applied following male circumcision and for how long?
- 8. What precautions should be reviewed following infant male circumcision (list 6):

CHAPTER 9: POST-OPERATIVE COMPLICATIONS

LEARNING OBJECTIVES

- 1. Describe what steps should be taken to address bleeding following EIMC.
- 2. Describe what should occur if too little or too much foreskin is removed.
- 3. Describe what should occur if part of the penis is injured during the procedure.
- 4. Describe what should occur if adhesions appear between the foreskin and the glans and discuss causes of a penis appearing trapped following male circumcision.

Description: Please review chapter 9 and answer the following questions.

- 1. What is the most effective and least expensive way to stop post circumcision bleeding?
- 2. How long should direct pressure be applied before considering other options.
- 3. If profuse bleeding is noted at many locations following 10 minutes of direct pressure, what should you do?

- 4. If a suture is used to control bleeding near the frenulum on the ventral aspect of the penis, what important structure can be injured if the needle is placed too deep?
- 5. If an injury occurs during circumcision, why is it important to obtain immediate specialty consultation?
- 6. Following EIMC, regardless of how much foreskin is removed, there is a possibility that the wound can contract above the glans causing it to appear trapped behind the scar of the circumcision. How can this be prevented?
- 7. Early adhesions are typically managed by attempting to reduce the foreskin so the entire glans can be visualized, ensuring separation between the skin edge and any other area of wound healing. Late adhesions, that occur after the wound has completely healed, do not require any immediate intervention and can be managed expectantly, why?

CHAPTER 10: **STANDARD PRECAUTIONS AND INSTRUMENT PROCESSING**

LEARNING OBJECTIVES

- Describe the components of recommended infection prevention and control practices in health care setting where EIMC is performed.
- Demonstrate the use of standard precautions for EIMC procedures.
- Explain the steps of instrument processing.
- Describe waste management for EIMC.
- Describe the management of accidental exposure to blood and body fluids in a clinical set up for clients and providers.

Description: Review chapter 10. Complete the exercises below:

1. In the space provided, write true or false for each statement.

		True/False
•	The risk of acquiring HBV after being stuck with a needle used for a patient who is HBV-positive is higher than the risk of acquiring HCV or HIV from a needle-stick injury.	
•	The risk of acquiring HIV after being stuck with a needle used for a patient who is HIV-positive is more than 60%.	
•	If tap water is contaminated, hand washing with plain soap will effectively remove soil and debris and reduce the number of transient microorganism on hands.	
•	The antiseptic of choice for use in male circumcision is tincture of iodine.	
•	Before placing a disposable (single-use) needle and syringe in a puncture-proof container or box, you should first carefully recap the needle.	
•	Decontamination of surgical instruments by soaking in 0.5% chlorine solution for 10 minutes prior to cleaning kills or inactivates most microorganisms, including HBV, HCV and HIV.	

•	Washing surgical instruments with detergent and clean water until visibly clean and then thoroughly rinsing them is not necessary if the instruments have been decontaminated by soaking in 0.5% chlorine solution.	
•	All puncture-proof sharps containers must be more than ¾ full before finally being disposed of.	
•	It is absolutely not necessary to secure dumping pits or disposal sites as long as decontamination procedures are strictly followed.	
•	Cardboard boxes can safely be used for storage of sterile items.	
•	Placing waste in plastic or galvanized metal containers with tightly fitting covers is recommended in waste management.	
•	Color-coding to differentiate receptacles for infectious and non-infectious waste is often a waste of scarce resources.	

These questions will review basic information on post-exposure prophylaxis.

- 2. You are working in the maternal and child health unit (maternity) in your facility. While drawing blood from a guardian for a HIV test, you accidentally prick yourself with the 18-gauge needle.
 - a. What is your risk of acquiring HIV?
 - b. In addition to testing for HIV, what else should you test for?
 - c. When should you start taking PEP if it is indicated?
- 3. The nurse working with you in infant circumcision unit injures herself with a lancet used for a finger-prick on a HIV-exposed neonate seeking circumcision services.
 - a. What is the appropriate first aid?
 - b. Should she take PEP; why or why not?

CHAPTER 11: EIMC SERVICE DELIVERY AND PROGRAMME MANAGEMENT

The section is to be used together with chapter 11, in the Guidelines for Early Infant Male Circumcision (EIMC) in Kenya and the Quality Assurance and Facility Assessment Tools for Early Infant Male Circumcision (EIMC) in Kenya

LEARNING OBJECTIVES

- Describe the monitoring and evaluation of programs for EIMC services.
- Explain the importance of indicators for the EIMC program.
- Demonstrate data collection and reporting of the EIMC program.

Description: Read Chapter 11 in the Guidelines for Early Infant Male Circumcision (EIMC) in Kenya, as well as the Quality Assurance and Facility Assessment Tools for Early Infant male Circumcision (EIMC) in Kenya.

Review one of the following facility registers, and respond to the questions below. (Annex 8 and 13 of the training manual)

- Register for EIMC OR neonatal care
- EIMC counseling and testing register OR HIV counseling and testing register
- Last month/quarter EIMC service delivery report OR monthly neonatal care report

OR (If EIMC or neonatal care services are not available in your facility)

- Any other service delivery register
- 1. Analyse the quality of the data collected on each form using principles for collecting "good data" described in the Guidelines.
 - a. Completeness
 - b. Clarity
 - c. Consistency
 - d. Relevance/Importance
- 2. List the gaps you observed in recording and reporting.
- 3. What can be done to improve the quality of data collected in your facility?
- 4. Does your facility have a target for the services that you register?
- 5. If the facility has set targets, is the data used for decision-making and planning?

SKILL STATIONS



SKILL STATION 1: **COUNSELING AND CONSENTING**

At this skill station there will be a laminated copy of the sample information sheet for EIMC and the sample consent form for EIMC. During this skill station each learner will use these tools to provide counseling to a fellow learner about the risks and benefits of EIMC and go through the consent process. Each learner will be observed by an instructor or fellow learner during practice and two patient encounters.

COUNSELING CHECKLIST

		Instruc	tor/Student Si	gnature
Skill comp	ponent	Practice	Patient #1	Patient #2
General ex	xplanation of male circumcision			
1. Use e	easy to understand language and check understanding.			
	urage the patient to ask questions and voice concerns, and to what he has to say. Demonstrate empathy.			
3. Benef	fits			
С	Custom			
С	Cleanliness			
Р	Prevention of paraphimosis			
	Decreased risk of urinary tract infections			
	Decreased risk of HIV infection			
	Decreased risk of other STDs			
	Decreased risk of cancer of the penis			
	Decreased risk of cervical cancer in partners			
А	Avoid the need for circumcision later in life			
4. Risks				
L	ack of informed consent			
Р	Pain			
S	Surgical risk (bleeding, infection, injury)			
E	Expense			
S	Sexual satisfaction			
	ne parents/guardians for any questions they might have on Circumcision provide additional information as needed.			
6. Tell pa	arents/guardians where to go for the services that they require.			
7. Thank	c for their attention.			

CONSENT CHECKLIST

	Instructor/Student Signature		gnature
Skill component	Practice	Patient #1	Patient #2
Review name			
Review procedure			
Review alternatives (no circumcision vs. delayed)			
Review anesthesia			
Ask if there are any questions about the procedure			
Ask if there are any questions about the risks and benefits			
Review what needs to be done before the procedure			
Ask several questions to insure understanding			



SKILL STATION 2: SCREENING, MARKING AND DPNB

At this skill station there will be:

- EIMC training model
- Syringes, Lignocaine bottle, and alcohol swabs

Each student will be required to look at a series of pictures and correctly determine if circumcision would be appropriate. Using these pictures along with the EIMC training model each student will identify important landmarks and describe how to make the pen mark and administer a DPNB. Each student will be observed by an instructor or fellow student during practice and two patient encounters.



	Instruc	tor/Student Si	gnature
Skill component	Practice	Patient #1	Patient #2
Identify urologic abnormalities			
Hypospadias			
Penile scrotal web			
Hydrocele			
Torsion			
Concealed penis			
Surgical pen mark			
Identify corona (atlas/patient)			
Explain why mark is made at the corona			
Explain how to find corona if not visible			
Explain why skin must be dry			
Explain why surgical field must be clean			
Dorsal Penile Nerve Block (DPNB)			
Identify important landmarks (atlas/patient)			
Prepare lidocaine (simulate/real)			
Demonstrate technique (simulate/real)			
Explain reason for aspirating before injecting			
Explain why epinephrine is not used			



SKILL STATION 3: WOUND DRESSING AND POST-EIMC BLEEDING

At this skill station there will be:

- 1. Sample wound dressing poster
- 2. Sample post-operative bleeding protocol
- 3. Xeroform gauze packets
- 4. Gauze 4 x 4 pads
- 5. Petrolatum
- 6. EIMC training model
- 7. Baby wipes to clean hands

Each student will be required to prepare and apply an EIMC dressing and describe the appropriate steps to control post-circumcision bleeding. Each student will be observed by an instructor or fellow student during practice and two patient encounters.

	Instr	uctor/Student S	Signature
Skill component	Practice	Patient #1	Patient #2
Wound dressing			
Identify purpose (bleeding, edema, infection)			
Demonstrate how to prepare 4x4 gauze			
Demonstrate correct application			
Describe precautions that should be reviewed			
Describe appropriate time for removal			
Describe method to remove dressing			
Can a dressing be removed anytime?			
Can a dressing be replaced anytime?			
Infant has not voided, what do you do?			
Post circumcision bleeding			
What family history is important?			
What should the clamp time be?			
Identify the best way to control bleeding			
Describe steps to control bleeding			
Inspect for injury			
Apply pressure			
Apply dressing			
Direct pressure over dressing 5 min			
Remove dressing, reinspect for injury			
Consider bleeding disorder			
Apply dressing			
Direct pressure over dressing 10 min.			
Consider specialty consultation			
Maintain direct pressure			



SKILL STATION 4: MANAGING COMPLICATIONS

Each learner will be shown pictures of complications and asked how they should be managed.

	Instru	Instructor/Student Signature		
Skill component	Practice	Patient #1	Patient #2	
Degloving				
Removal of an insufficient amount of tissue				
Penile laceration				
Penile amputation				
Trapped penis, early				
Trapped penis, late				
Adhesions early				
Adhesions late				
Skin bridge				
Normal wound healing [Mogen Clamp]				



SKILL STATION 5: **POSTOPERATIVE CARE AND PRECAUTIONS**

At this skill station there will be:

- 1. Sample Post-Operative Information Sheet
- 2. Baby wipes to demonstrate how to apply pressure

Each learner will practice providing post operative care instructions and precautions. Each learner will be observed by an instructor or fellow learner during practice and two patient encounters.

	Instru	Instructor/Student Signature			
Skill component	Practice	Practice Patient #1 Patient			
Postoperative care					
Describe how to remove the dressing					
Dressing falls off, what should you do?					
Bleeding after diaper change					
Stool covers dressing					
How to retract foreskin, traction at base					
How to retract foreskin, wiping off glans					
Retraction, why and for how long					

	Instructor/Student Signature		gnature
Skill component	Practice	Patient #1	Patient #2
Can't retract early?			
Can't retract late?			
Why do we use petrolatum and for how long?			
Adhesions that involve the surgical wound			
Adhesions that occur late			
Use baby wipe, show how to control bleeding			
Use fist to describe trapped penis			
At 6 months, not all the glans can be seen?			
Postoperative precautions			
Persistent bleeding			
Fever			
Lethargy			
Poor feeding			
Inconsolable			
No void for more than 6 hours			
Any other concerns			
Pus and how you can tell			
When should the wound look the worst			
When does infection occur?			



SKILL STATION 6: **SUTURING**

At this skill station there will be:

- 1. Suture training kit
- 2. Overview of suturing and wound closure

Each student will practice suturing techniques.

Skill component	Instructor/Student Signature
Suturing	
Describe when sutures should be used	
Describe the location of the urethra	
Demonstrate a simple interrupted suture	
Describe how to close a circumcision wound	
Describe vertical mattress	
Describe horizontal mattress	



SKILL STATION 7: SURGICAL SKILL

At this skill station there will be:

- 1. Surgical procedure training kit, one for each team of two students
- 2. Sample checklist for the EIMC procedure

Each student will demonstrate:

Skill component	Instructo	r/Student S	ignature
Procedure preparation	Practice	Case #1	Case #2
Check instruments			
Check consent and baby identification			
Clean/wash hands			
Screen patient to ensure still good candidate			
Patient preparation			
Inspect glans and determine device and size			
Prepare anesthesia			
Position patient			
Antiseptic			
Apply sterile gloves			
Inspect Mogen Clamp			
Drape			
Prepuce preparation	·		
Pen mark (penis should be dry)			
Anesthesia			
Grasp foreskin			
Remove adhesions			
Dilate foreskin or create dorsal slit			
Mogen Clamp Device			
Demonstrate proper use of the Mogen Clamp			

ANNEX 1 CHECKLISTS

PRACTICE CHECK LIST FOR INDIVIDUAL COUNSELLING ON EARLY INFANT MALE CIRCUMCISION

Place a "p" in case box if step/task is performed satisfactorily, an "X" if it is not performed satisfactorily or N/O if not observed.

Satisfactory: performs the task or step according to the standard procedure or guidelines

Unsatisfactory: unable to perform Step or task according to the standard procedure or guidelines

Not Observed: Step, task or skill not performed by participant during evaluation by trainer

Practice checklist for individual counseling on Early Infant Male Circumcision TASK/ACTIVITY CASE				CEC
	PREPARATION		CASES	
1		\dashv		\vdash
1.	Prepare IEC Materials	\dashv		-
2.	Provide seats for all clients and the care taker/parents who have come to the EIMC clinic			
3.	Greet the Clients/parents guardians present and introduce yourself			
4.	Explain to the clients, parents' guardians and care takers what is going to be done and encourage them to ask questions. Get permission before beginning and ask whether the care takers should be present.			
5.	Explain to the Client/Parent/Guardian that the information s/he gives will be held confidential and will not be shared without his/her express permission. Explain the concept of shared confidentiality with other health care providers who are giving HIV- related care			
6.	Request for the mother baby booklet to confirm accuracy of information provided			
	GENERAL			
7.	Use easy to understand language and check understanding			
8.	Communicate respect with verbal and non-verbal communication	\sqcap		
9.	Honor confidentiality	\neg		
10.	Encourage the client to ask questions and voice concerns, and listen to what they have to say			
11.	Ask what the client already knows before providing relevant education			
12.	Show sensitivity to social and cultural practices that may conflict with the plan of care			
13.	Answer all questions correctly and where you don't have an answer provide a reference for follow up			

	nts all services that are being offered alongside EIMC like scent and adult MC and other RH services		
16. Ask the clie requesting	nt, parent/guardian what specific service s/he is		
EARLY INFA	ANT MALE CIRCUMCISION		
•	arent/guardian to tell you what s/he already knows about male circumcision (EIMC)		
fill the Gaps	nck to the parent/guardian all information provided and s. Correct any inaccurate answer by provided by the rdian and ensure you discuss:		
• Wh	at is male circumcision		
• Wh	at is EIMC		
• Disp	play the EIMC techniques available		
• Wh	y EIMC, benefits of EIMC		
• Risk	ks of EIMC		
• Rela	ationship between male circumcision and HIV infection		
• Pair	n relief options for EIMC		
• Pos	t-operative care after EIMC		
• Hov	w, when and where to contact health care workers after		
HIV DISEAS	E BASICS AND PREVENTION		
19. Ask a volun	teer to tell you what s/he already knows about HIV/AIDS		
1	e feedback to the volunteer on all correct information and fill in the gaps		
	ent/guardian if s/he already knows his/her HIV status and ow the nearest point for getting the test done		
1	is exposed then a linkage/ referral should be done to the nt of support and care		
IMMUNIZA	TION AND FAMILY PLANNING (FP)		
clinic. Refer	ent/guardian if the baby is attending any well baby to the mother baby booklet to confirm if any relevant shave been given. If not refer accordingly.		
24. Ask the pare refer accord	ent if s/he is aware of the need for family planning and lingly for FP		

CONCLUSION		
Ask the clients parents and guardians for any questions they might have on EIMC and provide additional information as needed		
26. Tell the clients, parents/ guardians where to go for services they require. Promote adult and adolescent MC as part of the conclusion		
27. Ensure the consent form is fully completed accordingly if the parent/guardian is ready for EIMC		
28. Complete the client record forms		
29. Proceed with client assessment and screening for EIMC		

PRACTICE CHECK LIST FOR GROUP EDUCATION FOR EARLY INFANT MALE CIRCUMCISION

Place a "p" in case box if step/task is performed satisfactorily, an "X" if it is not performed satisfactorily or N/O if not observed.

Satisfactory: performs the task or step according to the standard procedure or guidelines

Unsatisfactory: unable to perform Step or task according to the standard procedure or guidelines

Not Observed: Step, task or skill not performed by participant during evaluation by trainer

	Practice checklist for group education on Early Infant Male Circumcision				
	TASK/ACTIVITY		CASES		
	PREPARATION				
1.	Prepare IEC Materials				
2.	Provide seats for all clients and the care taker/parents who have come to the EIMC clinic				
3.	Great the Clients/parents guardians present and introduce yourself				
4.	Explain to the clients, parents guardians and care takers what you wish to talk about and encourage them to ask questions				
	GENERAL				
5.	Use easy to understand language and check understanding				
6.	Encourage the clients to ask questions and voice concerns, and listen to what they have to say				
7.	Answer all questions correctly and where you don't have an answer provide a reference for follow up				
8.	Demonstrate empathy				
9.	Tell the clients all services that are being offered alongside EIMC like HTC, adolescent and adult MC and other RH services				

MALE CIRCUMCISION AND EIMC		
10. Ask a volunteer to tell you what s/he already knows about male circumcision and EIMC		
11. Give feedback to the volunteer on any correct information provided and fill the Gaps. Correct any inaccurate answer by providing scientifically documented answers:		
What is male circumcision		
What is EIMC		
Why EIMC, benefits of EIMC		
Benefits of male circumcision		
Risks of EIMC		
Relationship between male circumcision and HIV infection		
Pain relief options for EIMC		
Post-operative care after EIMC		
How, when and where to contact health care workers after EIMC		
HIV DISEASE BASICS AND PREVENTION		
12. Ask a volunteer to tell you what s/he already knows about HIV/AIDS		
13. Give positive feedback to the volunteer on all correct information provided and fill in the gaps		
CONCLUSION		
14. Ask the clients parents and guardians for any questions they might have on EIMC and provide additional information as needed		
15. Tell the clients, parents/ guardians where to go for services they require. Promote adult and adolescent referral as part of the conclusion		
16. Thank everyone for their attention		

PRACTICE CHECK LIST FOR CLIENT ASSESSMENT FOR EARLY INFANT MALE CIRCUMCISION

Place a "p" in case box if step/task is performed satisfactorily, an "X" if it is not performed satisfactorily or N/O if not observed.

Satisfactory: performs the task or step according to the standard procedure or guidelines

Unsatisfactory: unable to perform Step or task according to the standard procedure or guidelines

Not Observed: Step, task or skill not performed by participant during evaluation by trainer

	Practice checklist for client assessment for Early Infant Male Circu	ımcis	ion		
	TASK/ACTIVITY		CAS	ES	
	PREPARATION				
1.	Gather all necessary material. Ensure all required supplies materials and equipment are available. Refer to EIMC supplies and equipment list.				
2.	Ensure the room is clean, warm, well lit and with adequate ventilation				
3.	Provide seats for all clients and the care taker/parents who have come to the EIMC clinic				
4.	Greet the Clients/parents guardians present and introduce yourself				
5.	Explain to the clients, parents' guardians and care takers what is going to be done and encourage them to ask questions. Get permission before beginning and ask whether the care takers should be present.				
6.	Explain to the Client/Parent/Guardian that the information s/he gives will be held confidential and will not be shared without his/her express permission. Explain the concept of shared confidentiality with other health care providers who are giving HIV- related care. The parents/guardians should be informed that screening ends with full exposure of the glans and that only then can EIMC be done.				
	CLIENT IDENTIFICATION				
7.	Ask the clients' parents/ guardians the demographic data of the baby, mother and Father				
8.	Record all the information received to the space provided in the client form				

HEAD TO TOE EXAMINATION		
 Expose the baby and check body weight, temperature, heart rate as you conduct a head to toe examination of the baby, participant examines: 		
 Head (scalp, eyes, ears, nose, and mouth) 		
• Neck		
 Chest (respiration rate, nipples, symmetry, heart sounds, hands and body temperature) 		
 Abdomen (size, shape, bowel movements, last meal, last urination) 		
 Genitals (scrotum size and shape, penis length, and urethral opening) 		
• Legs		
Back		
• Feet		
The reflexes-root ,suck ,moro, tonic neck		
Check if the testis has descended		
10. Ensure all relative and absolute contraindications to EIMC are ruled out		
11. Encourage the clients' parents to ask questions and voice concerns, and listen to what they have to say		
12. Show sensitivity to social and cultural practices that may conflict with the plan of care		
13. Answer all questions correctly and where you don't have an answer provide a reference for follow up		
14. Demonstrate empathy		
15. Explain the parents/guardians the findings		
16. Tell the clients, parents/ guardians where to go for services they require. Promote adult and adolescent MC as part of the conclusion		
17. Complete the client record forms		

ANNEX 2 LIST OF REVIEWERS

LIST OF EXTERNAL REVIEWERS

Dr.Christine Kisia WHO

Catey Laube Jhpiego US Office

Dr.Stephanie Davis CDC - Atlanta

PARTICIPANTS AT THE VALIDATION WORKSHOP

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Dr. Festus Kigen MOH - Busia County

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