



# THE CENTRE FOR HIV AND AIDS PREVENTION STUDIES

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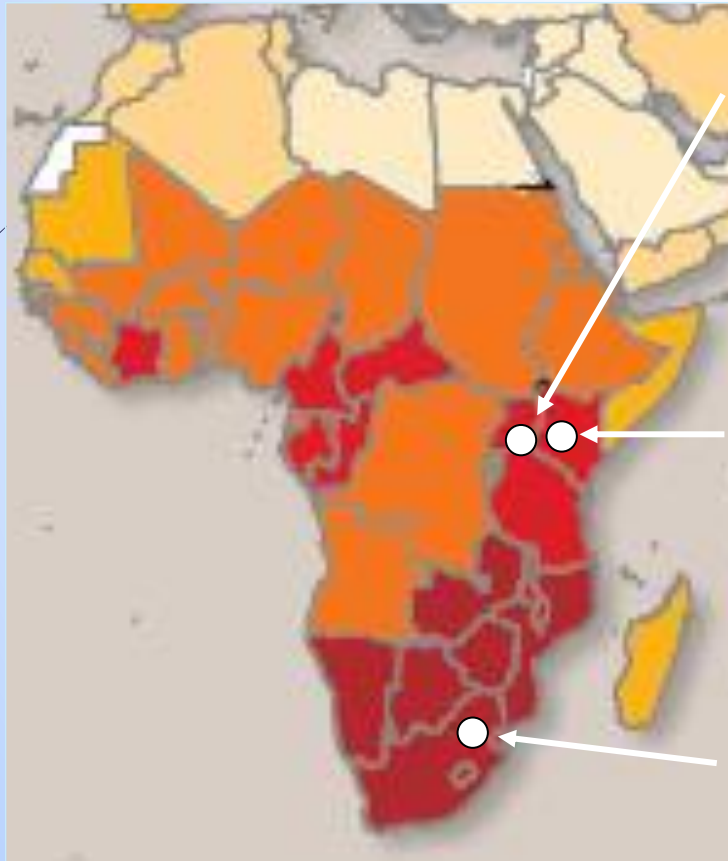
## Medical Male Circumcision (MMC) in South Africa



**USAID**  
FROM THE AMERICAN PEOPLE



# Randomised controlled trials of male circumcision proved that circumcision was up to 60% protective against the acquisition of HIV among men



## Rakai, Uganda

Gray *et. al.* (2007)  
Lancet; 369: 657 – 66

## Kisumu, Kenya

Bailey *et. al.* (2007)  
Lancet; 369: 643 – 56

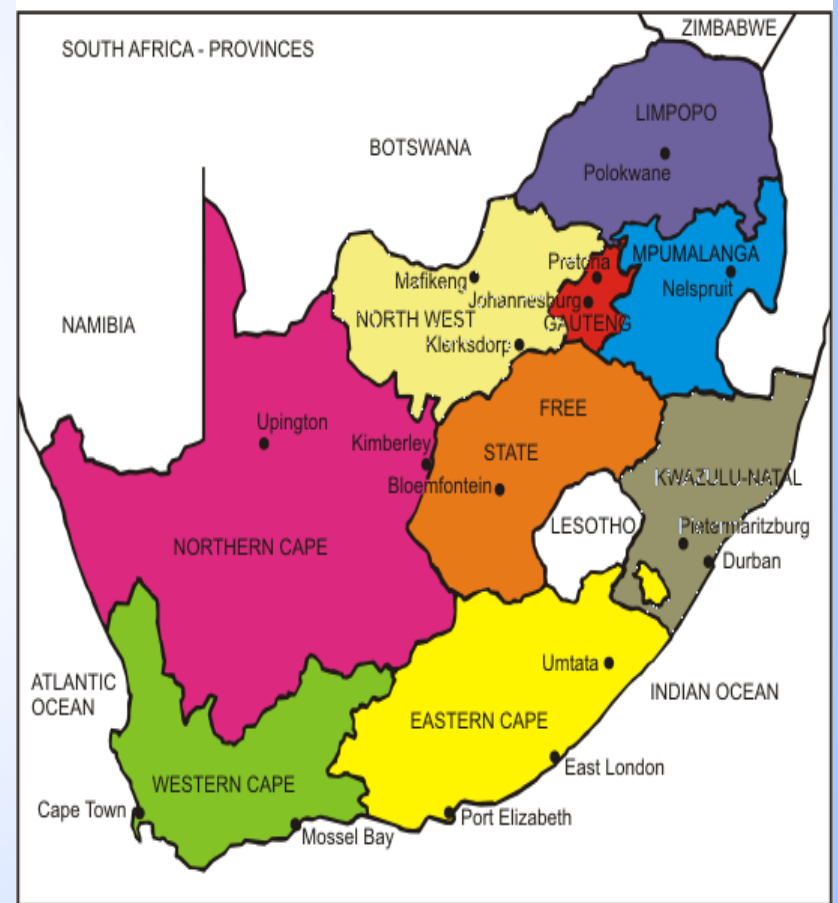
## Orange Farm, South Africa

Auvert *et. al.* (2005)  
PLoS Med; 2 (11): e298

Source: 2006 Report on the global AIDS epidemic  
(UNAIDS, May 2006)

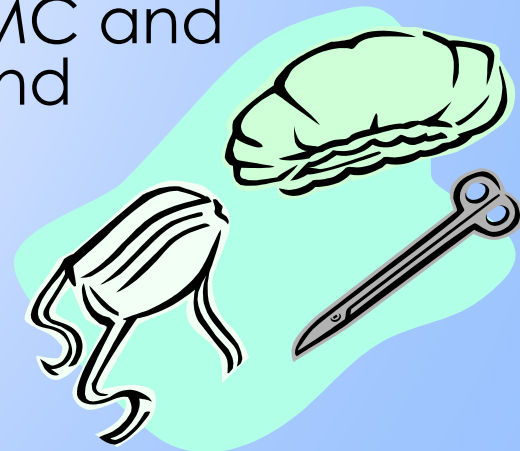
# Male Circumcision in South Africa

- ▶ National strategy aims to reach 80% of males aged 15-49 with circumcision services by 2016
- ▶ That is 4.3 million people
- ▶ If successful, South Africa would
  - ▶ Avert more than 1.2 million HIV infections between 2009-2025
  - ▶ Save US\$6.5 billion in HIV-related health care costs
- ▶ Urgent need for quick scale up & CHAPS along with other partners is working at National and Provincial levels to expand services in health care facilities



# CHAPS- Surgical Male Circumcision

- CHAPS- leading MMC (surgical) service provider and trainer in South Africa since 2010
- USAID/PEPFAR funded NGO based mainly in Gauteng but expanding rapidly
- Working in partnership with Department of Health to scale-up MMC nationally through technical assistance
- Other services offered by CHAPS include- VMMC and other courses, research on VMMC and demand creation, VMMC start-up



# Surgical layout and equipment



# Surgical vs PrePex MC

## Surgical MC

- Anaesthesia required
- Trained doctors
- Surgical skills
- Minimal blood loss
- Suturing to close the wound
- Well-equipped, sterile operating room
- Longer procedure
- Potentially expensive

## PrePex MC

- No needles
- No loss of blood
- Various sizes designed to minimize discomfort during involuntary erections
- Back to daily routine immediately after procedure
- Aesthetic cosmetic results (no stitches/sutures)
- No intimidating masks or operating room (theatre) settings
- Small inner ring is discreet – no bulges in clothing
- Minimal discomfort

# CHAPS- PrePex Male Circumcision

Non-Surgical Adult Male Circumcision Device  
For HIV/AIDS Prevention In Resource Limited Settings

**Placement  
Ring**



**Inner Ring**



**Elastic Ring**



**Verification Thread**



Using radial elastic pressure to compress the foreskin, the device stops blood supply until the skin is no longer viable causing ischemic necrosis.

The unwanted foreskin tissue is safely removed after a week. The device is intended for single use and is not for self use.

# CHAPS- PrePex Male Circumcision

PrePex has been extensively reviewed by the WHO, with its safety and efficacy validated in a series of comprehensive, rigorous studies. PrePex has also been approved by the US Food and Drug Administration (FDA), and with CE mark class IIa and ISO.



The overall adverse events (AE) rate of PrePex procedure reported by health care providers since 2011 is 0.81%. All AE's were easily resolved.

Up to August 2014,  
approximately 56,000 PrePex procedures were conducted  
across Sub-Saharan African countries



# Surgical MC( Forceps guided Method)- demonstration

## Steps 1-4

1. Skin preparation, draping and anaesthesia (as previously described)
2. Retraction of foreskin and separation of any adhesions
3. Marking of intended incision line
4. Grasp the foreskin at the 3 and 9 o'clock positions with two artery forceps,

## Steps 5-6

5. Taking care not to catch the glans, apply a long straight forceps across the foreskin just proximal to the mark. Once the forceps is in position, feel the glans to check that it has not been accidentally caught in the forceps
6. cut the foreskin flush with the outer aspect of the forceps.

## Demonstration- cont'd

### Steps 7-10

7. Hemostasis with the use of diathermy to control bleeding.
8. Suturing the circumcision. Skin to mucosa.
9. Check for bleeding, and provided there is none, apply a dressing.
10. Give post-operative care instructions to patient

### Final outcome



# PrePex Male Circumcision- Demonstration

## Placement Steps- Day 0

1. Disinfecting the penis
2. Sizing the penis
3. Marking the circumcision line
4. Applying anesthetic cream
5. Placing the Placement
6. Ring over the penis shaft
7. Inserting the Inner Ring
8. Aligning Placement Ring to the Inner Ring and adjusting the foreskin
9. Elastic Ring over the Inner ring, creates pressure on the foreskin

The men leave the clinic wearing the device for 7 days in which they can continue with their daily routine



# PrePex Male Circumcision- Demonstration

## Removal Steps- Day 7

1. Disinfecting the penis
2. Removing the unwanted tissue using safe blunt edge scissors
3. Cutting the Elastic Ring
4. Extracting the Inner Ring
5. Stopping oozing with a dry gauze for 20-30 seconds
6. Disinfection post removal
7. Dressing

## Final Outcome



# THANK YOU

## QUESTIONS?

