



THE EXPERIENCE OF A WHO TARGETED AGE GROUP (10-29 YEARS) FOR HIV PREVENTION WITH THE SHANGRING MALE CIRCUMCISION DEVICE

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MP04-16

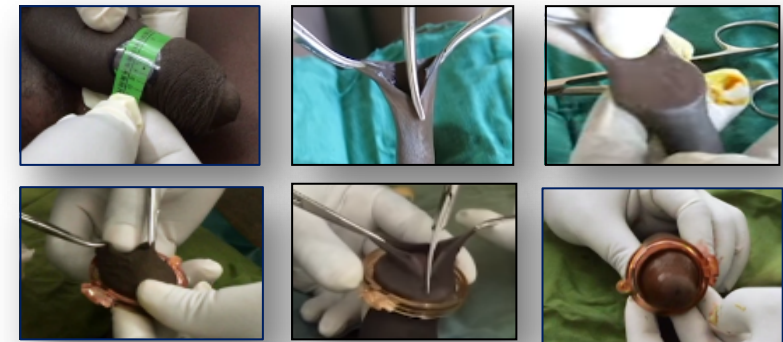
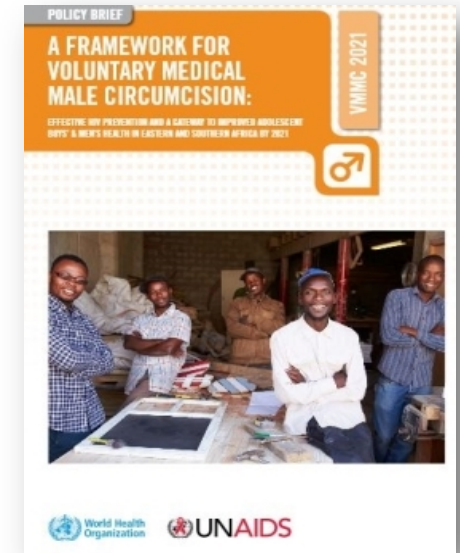
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Introduction:

- The WHO has established a target of 27 million male circumcision by the year 2021 for HIV prevention in sub-Saharan Africa with emphasis on individuals aged 10 to 29 years.
- Device-assisted male circumcision has been proposed to achieve this target.
- We aimed to assess the experience of males aged 10 to 29 years with the ShangRing in place following circumcision.

Methods and Study Design:

- Participants underwent no-flip ShangRing circumcision by trained health care providers.
- At the first follow-up visit on day 7 post-circumcision, participants were asked to quantify the following while having the ShangRing in place:
 - Number of days they were able to return to work or school
 - Degree of interference on a scale of 0 (none) to 10 (complete interference) with various activities
 - Degree of pain during erection from 0 (no pain) to 10 (worst pain)
 - Difficulty with erections while having the ShangRing in place



No-flip ShangRing technique

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Results:

- All participants **successfully underwent no-flip ShangRing circumcision**.
- **520** males underwent successful no-flip ShangRing circumcision and had recorded responses.
- All (**100%**) participants had the device in place at the time visit (day 7 post-circumcision).
- Participants were able to return to work or school after **1.62±1.15** days from device placement.
- Mean level of interference with all activities was **<1**.
- Interference experienced by participants with various activities:
 - 75 (14.5%) with walking
 - 81 (15.6%) with sleeping
 - 107 (20.7%) with work or school
 - 94 (18.2%) with general activities
- Only 3 (**0.6%**) participants reported difficulty with erections out of the 470 that had an erection while the device was in place.
- Mean score of highest pain felt during an erection was **1.56±1.32**.

Conclusion:

- The ShangRing does not significantly impede everyday activity and is generally not bothersome with erections while in place.
- This aspect can further increase acceptability of the device among the WHO targeted age group, which in turn can increase scale up of MC services in sub-Saharan Africa.

| All participants, n = 520 | |
|--|-------------|
| Mean number of days in which participants returned to work or school following the procedure (SD)* | 1.62 (1.15) |
| Min number of days | 0 |
| Max number of days | 7 |
| Interference with walking** | |
| n (%) | 75 (14.48) |
| Mean score of interference (SD) | 0.21 (0.63) |
| Min score of interference | 0 |
| Max score of interference | 5 |
| Interference with sleeping** | |
| n (%) | 81 (15.64) |
| Mean score of interference (SD) | 0.26 (0.77) |
| Min score of interference | 0 |
| Max score of interference | 7 |
| Interference with work (job, school, work at home)** | |
| n (%) | 107 (20.66) |
| Mean score of interference (SD) | 0.36 (0.89) |
| Min score of interference | 0 |
| Max score of interference | 9 |
| Interference with general activities** | |
| n (%) | 94 (18.15) |
| Mean score of interference (SD) | 0.31 (0.77) |
| Min score of interference | 0 |
| Max score of interference | 5 |
| Participants who had an erection while the device is in place**, n = 470 | |
| Participants who had difficulty having an erection, n (%)** | 3 (0.01) |
| Mean score of highest pain experienced while having an erection (SD)*** | 1.56 (1.32) |
| Min score of highest pain experienced | 0 |
| Max score of highest pain experienced | 5 |

*Data missing from 3 participants; **Data missing from 3 participants; ***Data missing from 4 participants