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| **Voluntary Medical Male Circumcision (VMMC) Tool J – ShangRing Procedures****External Quality Assurance (EQA)***Injected anesthesia and Flip Technique***Site Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Reviewer’s Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_** |
| This Tool (J) aims to objectively assess resources and activities related to: * Screening patients and preparation for ShangRing
* ShangRing procedures for adults and adolescents
* Prevention of infection
* Surgical backup and training

**Reviewer Guidance**:The reviewer will record observations by marking “Y” for Yes (wholly adequate), or “N” for No (not wholly adequate) as noted on the form. In cases where the “N” is checked, the reviewer is asked to explain in the Notes section as appropriate. Any additional general comments may also be recorded in the Comments/Notes section at the end. For ShangRing services and clinical management there are many considerations for each of the indicators. Several key elements are identified for the reviewer as a guide during observations. An indicator may be judged adequate overall, with comments identifying the strongest areas as well as problematic components, even though the overall performance may be within acceptable standards. When judged partially or not wholly adequate (N) overall, the specific component(s) that require change should be identified, as well as affirmation of those elements that are sound.Please obtain permission from the clinical staff to observe the procedure. Then obtain verbal consent from the client (and from the parent/guardian if the client is a minor) to observe. |
| **For each item below, please check the correct box in the first column to indicate whether the provider asked about the item (NOT whether the answer was “Yes”). In the second column indicate whether the provider documented the result.** |
| **Medical History** | **Did provider ask about or perform?** | **Did provider document the results correctly?** |
| Does the client currently have or did he recently have any of the following: | **N/A** | **Y** | **N** | **Y** | **N** |
| **For post-pubescent clients only** | J1. **Medical History –** Any discharge from the tip of penis? |  |  |  |  |  |
| J2. **Medical History –** Any pain or burning on urination? |  |  |  |  |  |
| J3. **Medical History –** Frequent urination? |  |  |  |  |  |
| J4. **Medical History –** Any swelling/redness of the foreskin or penis? |  |  |  |  |  |
| J5. **Medical History –** Any ulcer or warts anywhere on penis? |  |  |  |  |  |
| J6. **Medical History –** Any problems with sexual function |  |  |  |  |  |
| J7. **Medical History** – Does the client have allergies to any medication?  |  |  |  |  |
| J8. **Medical History** – Has the client had any previous surgeries? |  |  |  |  |
| J9. **Medical History** – If client has had previous surgeries, has he had any complications, including prolonged bleeding? (Please write ‘NA’ if NO previous surgeries). |  |  |  |  |
| J10. **Medical History** – Has the client ever had prolonged bleeding after cuts, dental extractions, or nosebleeds? |  |  |  |  |
| J11. **Medical History** – Does the client have diabetes? |  |  |  |  |
| J12. **Medical History** – Does the client have any history of anemia? |  |  |  |  |
| J13. **Medical History** – Does the client currently have any other serious chronic illness? (It is NOT necessary to ask about HIV status). |  |  |  |  |
| **Physical Exam** |
| J14. **Physical Exam** – Was the weight obtained? *If NO, skip to H16.* |  |  |  |  |
| J15. **Physical Exam** – What was the weight (kg)? |  |
| J16. **Physical Exam** – Was the temperature obtained? |  |  |  |  |
| J17. **Physical Exam** – Was the blood pressure obtained? |  |  |  |  |
| J18. **Physical Exam** – Was the penis examined, lifting and moving as needed to visualize all sides (done to rule out current STIs and anatomic abnormalities)? |  |  |  |  |
| J19. **Physical Exam** – Was an attempt made to retract the foreskin and visualize the urethra? (For phimosis, adhesions, hypospadias/epispadias). |  |  |  |  |
| J20. **Physical Exam** – Was the scrotum examined, lifting and moving as needed to visualize all sides? (Done to rule out disorders such as hydrocele). |  |  |  |  |
| J21. **Physical Exam** – Was eligibility for VMMC assessed?  |  |  |  |  |
| J22. **Physical Exam** – Was eligibility for VMMC assessed CORRECTLY? |  |  |  |  |
| Sources: PEPFAR Operational Guide for Voluntary Medical Male Circumcision Services: *A service guide for site operations*; Uganda Standard MC Record; WHO Manual for Male Circumcision under Local Anesthesia. |
| **Surgical Backup** | **Y** | **N** | **Notes** |
| J23. **Surgical Backup** – Is immediate skilled surgical backup available in the same facility?  |  |  |  |
| J24. **Surgical Backup** – Is surgical backup in a different department? |  |  |  |
| J25. **Surgical Backup** – What is protocol for converting device placement failures to surgical procedures? **(Discuss plan with staff).** |  |  |  |
| J26. **Surgical Backup** – Is a written plan in place for surgical backup?  |  |  |  |
| J27. **Surgical Backup** – Is the surgical backup adequately skilled in performing complex VMMC surgical procedures to address potential adverse events? **(Discuss skill of surgical backup with staff).** |  |  |  |
| **Comments on the surgical backup plan (specify feasibility and the adequacy of experience of surgical backup):**  |
| **Training** | **Y** | **N** | **Notes** |
| J28. **Training** – Have the clinical personnel in health facilities in the site’s catchment area been oriented on ShangRing?  |  |  |  |
| J29. **Training** – Have the clinical personnel in health facilities in the site’s catchment area been oriented on the recognition of potential complications from ShangRing?  |  |  |  |
| J30. **Training** – Have the clinical personnel in health facilities in the site’s catchment area been oriented on client management and referral policyfor ShangRing?  |  |  |  |
| **Additional Comments/Notes:** |

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| **All questions should be answered Yes if the item is fully complete, and No if any part is not.** |
| **Pre-Placement Steps** |
| **Client** | **Y** | **N** | **Notes** |
| J31. **Pre-Placement Steps –** Was the client’s name and age verified? |  |  |  |
| J32. **Pre-Placement Steps –** Was consent verified? |  |  |  |
| J33. **Pre-Placement Steps –** Did the provider measure the flaccid penile shaft circumference just below the coronal sulcus (proximal to the body)? |  |  |  |
|  | **Y** | **N** | **Notes** |
| J34. **Pre-Placement Steps –** Did the provider select the appropriate size ShangRing? |  |  |  |
| **Aseptic** **technique** |
| J35. **Aseptic** **technique** – Did the provider perform all surgical scrub elements correctly? |  |  |  |
| J36. **Aseptic** **technique** – Did the provider remove all jewelry (If no jewelry worn, comment N/A in notes section)? |  |  |  |
| J37. **Aseptic** **technique** – Did the provider first wash his/her hands and arms up to the elbow with non-medicated soap? |  |  |  |
| J38. **Aseptic** **technique** – Did the provider scrub with medicated soap or alcohol including all sides of each finger? |  |  |  |
| J39. **Aseptic** **technique** – Did the provider keep his/her hands above the elbows until gloved? |  |  |  |
| J40. **Aseptic** **technique** – Did the provider avoided touching anything until gloved? |  |  |  |
| J41. **Aseptic** **technique** – Did the provider put on gloves without letting their skin touch the outer surface? |  |  |  |
| J42. **Aseptic** **technique** – Did the provider replace gloves if punctured (comment N/A in notes section)? |  |  |  |
| J43. **Aseptic** **technique** – Was the client asked whether they were allergic to iodine antiseptic prior to applying povidone‐iodine (7.5% ‐ 10%), and if allergic, was or chlorhexidine gluconate (2% ‐ 4%) used instead? |  |  |  |
| J44. **Aseptic** **technique** – Did provider check for physiological adhesions and if adhesions are detected, does provider administer anesthesia before continuing cleaning? *In case of adhesions, SKIP to question J51, follow anesthesia questions, then return to J45. Adhesions can usually be separated easily by applying gentle pressure on them using a moist gauze swab or a blunt probe.*  |  |  |  |
| J45. **Aseptic** **technique** – Was antiseptic applied to client moving outward from the glans and inner foreskin, to the outer foreskin, shaft and scrotum, and peripheral genital area, including lower thighs and suprapubic area, without letting cleaned skin touch uncleaned skin? |  |  |  |
| J46. **Aseptic** **technique** – Did the provider apply antiseptic three times? |  |  |  |
| J47. **Aseptic** **technique** – Did the provider wait ≥2 minutes before initiating placement for disinfectant action? |  |  |  |
| J48. **Aseptic** **technique** – Was the client draped correctly (draping extends up to mid-chest, down to mid-thighs, and laterally over sides of the bed)? |  |  |  |
| J49. **Aseptic** **technique** – Did the provider re-wash hands and replace gloves after skin preparation? |  |  |  |
|   | **Y** | **N** | **Notes** |
| J50. **Aseptic** **technique** – Did the provider wear a face mask and protective eyewear throughout device placement? |  |  |  |
| **Anesthetic** |
| J51. **Anesthetic –** Were early symptoms of anesthetic overdose explained **to client** e.g., metallic taste in the mouth, numbness, light-headedness, dizziness, itching, or shortness of breath? |  |  |  |
| J52. **Anesthetic –** Did the provider open a NEW vial of anesthetic for the observed client? |  |  |  |
| J53. **Anesthetic –** Was only lidocaine without ephinephrine, with or without bupivacaine used? |  |  |  |
| J54. **Anesthetic –** Did the client receive only lidocaine or lidocaine with bupivacaine?* Lidocaine
* Lidocaine with bupivacaine
 |  |
| J55. **Anesthetic –** For clients receiving lidocaine alone, what was the volume (ml) AND strength of the lidocaine injected (%)? | ml |
| % |
| J56. **Anesthetic –** Does this equate to no more than 3.0 mg/kg based on the weight recorded in J15? (Indicate N/A in the notes if client did not receive lidocaine alone). |  |  |  |
| J57. **Anesthetic –** For clients receiving lidocaine with bupivacaine, what was the volume (ml) AND strength of the lidocaine injected (%)? (Write N/A in notes if client did not receive lidocaine with bupivacaine). | ml |
| % |
| J58. **Anesthetic –** Does this equate to no more than 2.0 mg/kg and 0.5 mg/kg of lidocaine and bupivacaine, respectively? (Indicate N/A in the notes if client did not receive lidocaine with bupivacaine). |  |  |  |
| J59. **Anesthetic –** Was a 23-gauge (or higher) needle inserted at the 11 and 1 o’clock positions? |  |  |  |
| J60. **Anesthetic –** Was aspiration performed with each movement of the needle? |  |  |  |
| J61. **Anesthetic** – If client expressed pain during the VMMC procedure, did the provider wait for drug to take effect if applicable, then give additional anesthetic if needed (up to max safe dose)? (If no pain, indicate N/A in notes). |  |  |  |
| J62. **Anesthetic** – Did the provider use a NEW needle AND syringe (no ‘double-dipping’) to withdraw the additional anesthetic? If additional anesthetic was not required, ask the provider what technique would be used in this situation, and answer this question based on description. |  |  |  |
|  | **Y** | **N** | **Notes** |
| **ShangRing Placement Steps** |
| J63. **Placement Steps** – Was the inner ring placed below or proximal to the level of the coronal sulcus, and with clamps at the 3, 6, 9, and 12 o’clock positions, the foreskin everted the foreskin (turned it inside out) over the inner ring? |  |  |  |
| J64. **Placement Steps** – If necessary due to tight foreskin or frank phimosis, was a 1 cm dorsal incision made to permit eversion of the foreskin over the inner ring (indicate N/A in notes if not necessary) |  |  |  |
| J65. **Placement Steps** – Was the outer ring secured ring over the inner ring, placing the foreskin between the two rings? |  |  |  |
| J66. **Placement Steps** – After engaging the first ratchet of the outer ring, was the foreskin adjusted as needed to ensure the proper placement of the device? |  |  |  |
| J67. **Placement Steps** – Did the provider ensure there were no extra folds of skin caught between the two rings and check that rings were in proper location before engaging second ratchet of the outer ring? |  |  |  |
| J68. **Placement Steps** – Was excess foreskin excised using a scalpel? |  |  |  |
| J69. **Placement Steps** – Were 6 to 10 nicks made perpendicular to the incision line using the scalpel to prevent formation of a constricting circumferential scab? |  |  |  |
| J70. **Placement Steps** – After excising the foreskin, did the provider inspect the underside of the ShangRing to identify any extraneous skin that may be pinched between the rings, and pulled to release from pinch as necessary?  |  |  |  |
| J71. **Placement Steps** – Was the presence or absence of AEs assessed and documented, including pain? |  |  |  |
| **Dressing material and application** |
| J72. **Dressing Material and Application** – Did the provider first ensure there was no bleeding? |  |  |  |
| J73. **Dressing Material and Application** – Was the wound cleaned with antiseptic? |  |  |  |
| J74. **Dressing Material and Application** – Was dry dressing applied to the wound? |  |  |  |
| **Disinfection** |
| J75. **Disinfection** – Did the staff dispose of personal protective equipment correctly? |  |  |  |
| J76. **Disinfection** – Were all needles and syringes disposed of safely? (in sharps container, no two-handed recapping, no reuse, no disassembling before disposal, without overstuffing) |  |  |  |
| J77. **Disinfection** – Was disinfection or sterilization of equipment adequate? |  |  |  |
|  | **Y** | **N** | **Notes** |
| J78. **Disinfection** – Was lidocaine vial disposed of? *If YES, skip question F67.* |  |  |  |
| J79. **Disinfection** – Ask provider how opened lidocaine vials are handled after first use. Does the procedure ensure that no vial which might have had ‘double dipping’ is later used for another client? |  |  |  |
| J80. **Disinfection** – (**For reusable instruments only)** By provider report, has the autoclave been functioning properly (No disruptions in the past 3 months)? (Write N/A in notes if using disposable kits). |  |  |  |
| **Removal** |
| J81. **Removal –** Did staff wash their hands prior to removing the ShangRing device? |  |  |  |
| J82. **Removal** – Was the presence or absence of AEs assessed and documented? |  |  |  |
| J83. **Removal** – Was 1%-2% lidocaine sprayed on the area around the wound and left for approximately 1-2 minutes to take effect? |  |  |  |
| J84. **Removal** – Did the provider insert and twist the tip of the removal key opener into the ‘key hole’ (located on the hinge of the outer ring)? |  |  |  |
| J85. **Removal** – Did the provider use a clamp to gently pull the inner ring back from the edge of the wound? |  |  |  |
| J86. **Removal** – Did the provider cut the inner ring at two points opposite each other, e.g., the 6 and 12 o’clock positions, using the removal cutter? |  |  |  |
| J87. **Removal** – Was a bandage applied to wound? |  |  |  |
| J88. **Removal** – Was the presence or absence of AEs during removal correctly documented, including pain? |  |  |  |
| **Additional Comments/Notes:** |