Circumcision, Surgical Curriculum Simulation

Simulation Preparation

1. Each station should have two residents and one faculty preceptor. The medical equipment per station (two stations) should include:
2. Restraining board with leg straps and disposable chucks
3. Betadine (not used on dolls)
4. Sterile gloves
5. Sterile drape with fenestration
6. Two small straight hemostats
7. One small curved hemostat
8. Flexible blunt probe
9. Gomco®-type clamp 1.1, 1.3, 1.45 cm
10. Mogen® clamp
11. Number 10 disposable scalp blade
12. Baby doll, cloth body
13. Fish bait, (example Zoom brand, salty super fluke, white ice), available in sporting goods store
14. Small balloons (available in party stores)
15. Paper clamp

Simulation Setup

- Cut a small hole in the back and front of the doll
- Take the fish bait, place a small balloon over the tip and cut a small hole at the end
- Pass the fish bait from the back to front of the doll and use the paper clamp to fix the bait in place setting in place the penis
- Place the doll on the board and fasten the leg straps

Sequence of Lab

- This sequence includes the OSATS
- 10–15 minute Gomco® circumcision times two
- 10 minute Mogen® circumcision times two
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**Procedure**

1. Simulate preparation
2. Place sterile drape
3. Grasp the foreskin at 9:00 and 3:00 with the straight hemostats no more than 0.5 cm
4. Use the curved hemostat to free the foreskin from the glans releasing any adhesions down to the corona of the glans, taking care to avoid the urethral opening

**Gomco® Procedure** (see video online)

1. Use a straight hemostat or a needle driver to crush the skin and mucosa at 12:00.
2. Wait 5 minutes then remove the instrument
3. Cut down the middle of the crush injury, blunt side in of the scissors
4. Pull the foreskin down over the glans and check the corona for adhesions
5. Remove any remaining adhesions with the blunt probe
6. Place the bell over the glans and use the hemostat to hold the foreskin in place over the bell
7. Remove the other two hemostats
8. The stem is inserted through the hole in the base plate of the Gomco® clamp
9. Reach through the hole and grasp the foreskin above the other clamp
10. Remove the lower hemostat
11. Pull the remaining foreskin equally through the hole ensuring the apex of the incision is fully through the hole
12. Attach the rocker arms of the clamp to the stem of the bell and place the bell arms in the yoke
13. Tighten the screw, crushing the foreskin
14. Clamp for 5 minutes
15. Using the scalpel, excise the foreskin removing all above the bell and clamp plate
16. Release the nut and free the bell from the rocker arm
17. Slide the bell through the hole
18. Release the bell from the foreskin
19. Make sure the glans and corona are fully exposed
20. Check for adhesions or bleeding
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Mogen® Procedure (see video online)

1. Slide the Mogen® clamp directly under the hemostats from left to right
2. Slightly close the clamp while pulling excess foreskin through
3. Lock the Mogen® clamp
4. Excise the foreskin with the scalpel
5. Release the clamp, lifting up after it is opened
6. Pull down on the remaining foreskin releasing the glans through the incision
7. Assess the glans for any remaining adhesions
8. Release any adhesions with the flexible blunt probe

OSATS

Residents should be assessed at each station with a:
1. Task-specific checklist for each technique
2. A global rating scale
3. A pass/fail grade