



circumcision

a lifetime of medical benefits



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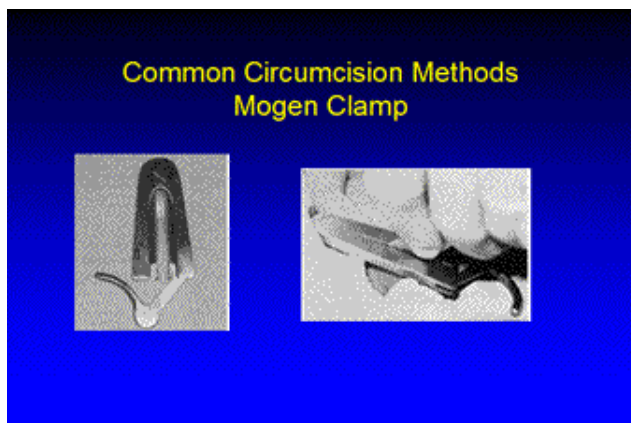
PRESENTATION OF CIRCUMCISION METHODS AND LOCAL ANESTHESIA:

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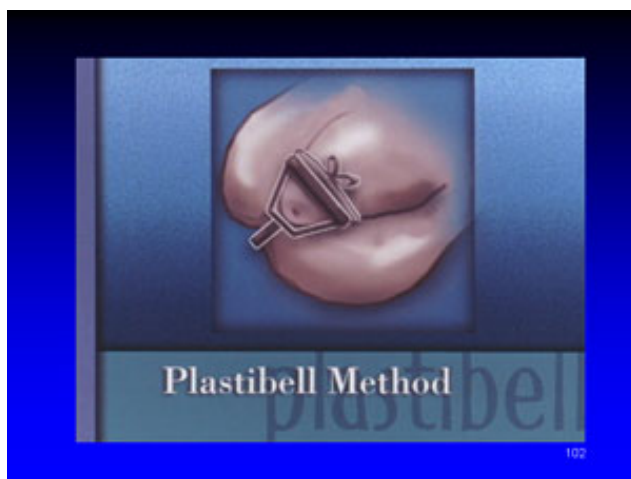
There are 3 acceptable methods for newborn circumcision (NC): 1) Plastibell method, 2) Gomco clamp, and 3) Mogen clamp. All 3 methods should be done with local anesthesia. The key to a quick, safe, painless NC depends more on the experience of the operator than on the method used. The methods of local anesthesia include dorsal penile nerve block (DPNB), ring block and anesthetic cream. Having the baby suck on a sucrose (sugar) pacifier also decreases pain.



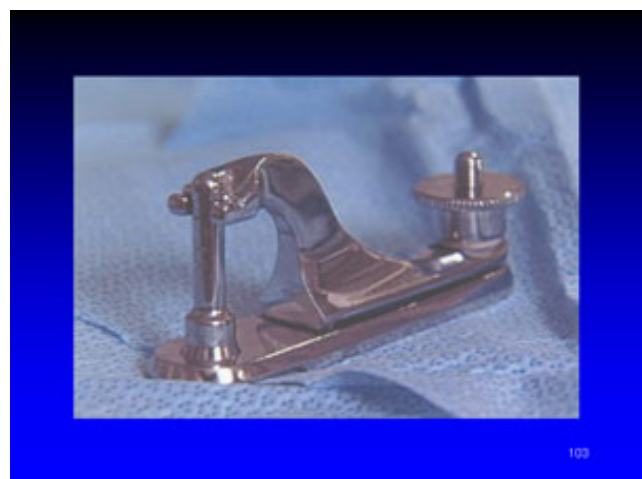
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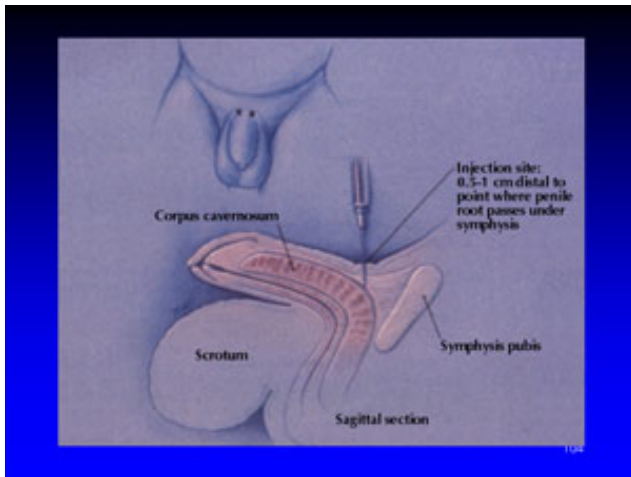
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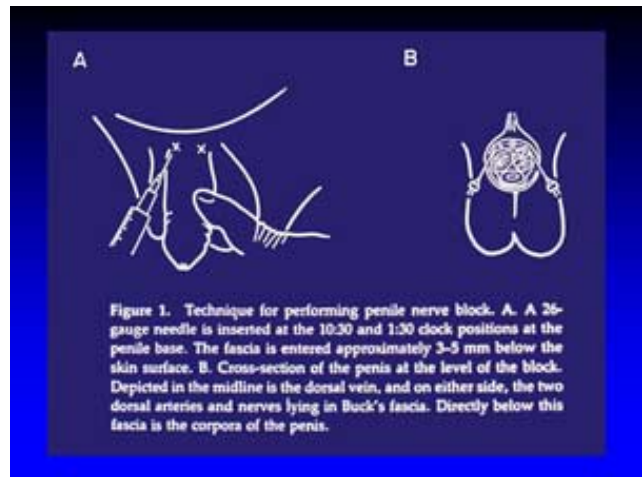
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Mogen & Gomco clamps & DPNB
 Kurtis et al. Pediatrics. 1999;103:491

- DPNB effective pain relief
- Mogen clamp quicker (81 seconds)
- Gomco clamp slower (209 seconds)
- Mogen clamp & DPNB least discomfort

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**Dixon et al (UCSD) Devel. & Behavior Peds. 5:246. 1984
 31 Infants**

"Infants receiving lidocaine in a dorsal penile nerve block (DPNB) remained more attentive to animate and inanimate stimuli following circumcision and demonstrated a greater ability to quiet themselves when disturbed."

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Effective Local Anesthesia in Newborn Circumcision

- Dorsal penile nerve block (DPNB) - lidocaine
- Ring block - lidocaine
- Lidocaine-prilocaine cream (EMLA)
- 30% lidocaine cream
- Oral sucrose (12-24%) decreases pain by 50%

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Window of Opportunity

- The newborn period is the "window of opportunity" for circumcision, since the preventive effects occur from early infancy in the cases of urinary tract and local infections. The following reasons also favor newborn circumcision:
 1. Maximum psychologic/biologic adaptability and resilience
 2. High levels of hormones effecting stress and pain control
 3. Rapid healing
 4. Ease of surgery- many experienced operators
 5. Reasonable cost
- Circumcision performed after the newborn period is more complicated and traumatic, there are fewer qualified operators and general anesthesia may be used, increasing the risk of complications. Healing is slower at older ages, and postneonatal circumcision is about 10 times as expensive as the newborn procedure, reflecting the increased surgical complexity with age.

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