Making the foreskin retractable. Occasionally a male reaches adulthood with a non-retractile foreskin. Some men with non-retractile foreskins happily go through life and father children. Other men may want to make their foreskins retractable. The foreskin usually can be made retractable by:

- Manual stretching
- Application of topical steroid ointment
- A combination of stretching plus topical steroid ointment
- Preputial plasty

Male circumcision is an outmoded treatment for non-retractile foreskin, but it is still recommended by many urologists because of lack of adequate information and understanding of alternative methods of relief. Nevertheless, circumcision should be avoided because of pain, trauma, cost, difficulty recovery, permanent injury to the appearance of the penis, loss of pleasurable erogenous sensation, and impairment of erectile and ejaculatory functions.

References:


See also www.cirp.org/library/normal

The Development of Retractile Foreskin in the Child and Adolescent

A guide for healthcare providers by

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Introduction. There is much uncertainty among health care workers about when the foreskin of a boy should become retractable. This has caused many false diagnoses of phimosis, followed by unnecessary circumcision, when, in fact, the foreskin is developmentally normal.

History. A British pediatrician, Douglas Gairdner, provided the first data on development of retractile foreskin was in 1949. His data have been incorporated into many textbooks and still are repeated in the medical literature today. Gairdner said that 80 percent of boys should have a retractable foreskin by the age of two years, and 90 percent of boys should have a retractable prepuce by the age of three years.

Unfortunately, Gairdner’s data are inaccurate, so most healthcare providers have been taught inaccurate data. Retractability usually occurs much later than previously believed. This leaflet provides accurate data, derived from newer and better studies, for healthcare providers.

Current View

Almost all boys are born with the foreskin fused with the underlying glans penis. Most also have a narrow foreskin that cannot retract. Non-retractile foreskin is normal at birth and remains common until after late puberty (age 18). Some boys develop retractile foreskin at an early age and about 2 percent of males have a non-retractile foreskin throughout life. Non-retractile foreskin is not a disease and does not generally require treatment unless desired by an adult.
There are three possible conditions that cause non-retractile foreskin:

- Fusion of the foreskin with the glans penis
- Tightness of the foreskin orifice
- Frenulum breve (short frenulum) (which is rare and cannot be diagnosed until the previous two reasons have been eliminated)

The first two reasons are normal in childhood and are not pathological in children. The third can be treated conservatively, retaining the foreskin.

**Infants and pre-school.** Kayaba et al. (1996) reported that before six months of age, no boy had a retractable prepuce; 16.5 percent of boys aged 3-4 had a fully retractable prepuce. Imamura (1997) examined 4521 infants and young boys. He reported that the foreskin is retractile in 3 percent of infants aged one to three months, 19.9 percent of those aged ten to twelve months, and 38.4 percent of three-year-old boys. Ishikawa & Kawakita (2004) reported no retractability at age one, (but increasing to 77 percent at age 11-15). Non-retractile foreskin is the more common condition in this age group. Compare these data with Gairdner’s data!

**School-age and adolescence.** Jakob Øster, a Danish physician who conducted school examinations, reported his findings on the examination of school-boys in Denmark, where circumcision is rare. Øster (1968) found that the incidence of fusion of the foreskin with the glans penis steadily declines with increasing age and foreskin retractability in-creases with age. Kayaba et al. (1996) also inves-tigated the development of foreskin retraction in boys from age 0 to age 15. Kayaba et al. also reported increasing retractability with increasing age. Kayaba et al. reported that about only 42 per-cent of boys aged 8-10 have fully retractile foreskin, but the percentage increases to 62.9 percent in boys aged 11-15. Imamura (1997) reported that 77 percent of boys aged 11-15 had retraction foreskin. Thorvaldsen & Meyhoff (2005) conducted a survey of 4000 young men in Denmark. They report that the mean age of first retraction is 10.4 years in Denmark.

Non-retractile foreskin is the more common condition until about 10-11 years of age.

Avoidance of premature retraction. Caregivers and healthcare providers must be careful to avoid premature retraction of the foreskin, which is contrary to medical recommendations, painful, traumatic, tears the attachment points (synechiae), may cause infection, is likely to generate medico-legal problems, and may cause paraphimosis, with the tight foreskin acting like a tourniquet. The first person to retract the boy’s foreskin should be the boy himself.

Catheterization does not require retraction. It is not necessary to forcibly retract a child’s foreskin in order to insert a urinary catheter. The foreskin should never be torn off the glans penis when inserting a catheter. To insert a catheter in an uncircumcised male gently retract the foreskin only to visualize the meatus. Full retraction runs the risk of creating paraphimosis. If the foreskin cannot be retracted at all, align the meatus with the opening of the foreskin and gently insert the catheter.