CERVICAL STENOSIS

Narrowing of cervix - the opening to the uterus.

🎉 Diagnosis ♂ Female

Related Diagnoses:
Endometriosis | Menopause | Amenorrhoea

ℹ️ About Cervical stenosis

Cervical stenosis means that the opening in the cervix (the endocervical canal) is more narrow than is typical. In some cases, the endocervical canal may be completely closed. Cervical stenosis may be present from birth or may be caused by other factors such as cervical cancer, dysplasia, endometrial ablation or menopause.

Treatment of cervical stenosis involves opening or widening the cervical canal. The condition may improve on its own following the vaginal delivery of a baby. Cervical canal widening can be temporarily achieved by the insertion of dilators into the cervix. If the stenosis is caused by scar tissue, a laser treatment can be used to vaporize the scarring. Finally, the surgical enlargement of the cervical canal can be performed by hysteroscopic shaving of the cervical tissue.

Associated diseases

- menstrual disorders (dysmenorrhea, amenorrhea)
- hematometra
- infertility
- endometriosis
- menopause

Complications
Cervical stenosis takes on particular importance because of the clinical repercussions that are associated with its occurrence, such as dysmenorrhea, amenorrhea, infertility and lesions during labor. The condition is also a concern because it prevents both adequate cytological follow-up and collection of endometrial cytology for carcinoma screening.

**Risk factors**

- Surgical procedures performed on the cervix such as colposcopy (a medical diagnostic procedure to examine an illuminated, magnified view of the cervix and the tissues of the vagina and vulva), cone biopsy, or a cryosurgery procedure
- Trauma to the cervix
- Repeated vaginal infections
- Atrophy of the cervix after menopause
- Cervical cancer
- Radiation

**Impact on fertility**

Cervical stenosis may impact natural fertility by impeding the passage of semen into the uterus. In the context of infertility treatments, cervical stenosis may complicate or prevent the use of intrauterine insemination (IUI) or in vitro fertilization (IVF) procedures.

**Prevention**

Non-existing.

**Symptoms**

Symptoms depend on whether the cervical canal is partially or completely obstructed and on the patient’s menopausal status. Pre-menopausal patients may have a buildup of blood inside the uterus which may cause infection, sporadic bleeding, or pelvic pain.
Therapies

**Self therapy**

Non-existing.

**Conventional medicine**

**Pharmacotherapy**

**Misoprostol**

Misoprostol is a medication used to start labor, prevent and treat stomach ulcers, and treat postpartum bleeding due to poor contraction of the uterus. Misoprostol prior to hysteroscopy for cervical dilation appears to facilitate an easier and uncomplicated procedure only in premenopausal women.

**Surgical therapy**

**Cervical dilatation**

Cervical dilatation is a common procedure in gynaecological practice that is used for both therapeutic and diagnostic procedures, such as hysteroscopy, explorative curettage or placement of intrauterine contraceptive devices. The most common method for cervical dilatation is to use Hegar dilators. This method requires significant force, which may lead to permanent damage of the cervical canal. Other methods of cervical dilatation involve the use of osmotic dilators or prostaglandin analogues, which are impractical, often nonfunctional and cause undesirable effects such as cervical haemorrhage or uterine cramping.

**Other therapies**

**Intrauterine device (IUD)**

The application of an IUD for cervical stenosis might be effective because the dilation required for device insertion allows menstrual blood to drain. The levonorgestrel-releasing intrauterine system (LNG-IUS) is used not only for contraception but also for dysmenorrhea- or endometriosis-related pain. The LNG-IUS exerts strong progesterone
activity, which leads to profound thinning and atrophy of the endometrium. Estrogen receptors are suppressed during LNG use, also contributing to reduced menstrual bleeding. Therefore, LNG-IUS insertion may be expected to be effective for severe cervical stenosis with dysmenorrhea because of the sustained dilation of stenotic tissue with easy drainage of menstrual blood, or because of the direct effect of progesterone on the endometrium.

Find more about related issues

Diagnoses

Endometriosis
Endometriosis is a state in which pieces of the tissue alike to the lining of the uterus (endometrium) grow in other parts of the body.
Learn more at: www.fertilitypedia.org/therapy/diag/endometriosis

Menopause
The time in most women's lives when menstrual periods stop permanently, and the woman is no longer able to have children.
Learn more at: www.fertilitypedia.org/therapy/diag/menopause

Amenorrhoea
The absence of a menstrual period in women of reproductive age.
Learn more at: www.fertilitypedia.org/therapy/diag/amenorrhoea

Organs

Cervix
The narrow inferior portion of the uterus that projects into the vagina.
Learn more at: www.fertilitypedia.org/edu/organs/cervix

Reproductive functions

Fertilization
The fusion of an ovum with a sperm to initiate the development of a new individual organism.
Learn more at: www.fertilitypedia.org/edu/reproductive-functions/fertilization

Symptoms
**Absence of menstrual periods**  
The absence of a menstrual period in a woman of reproductive age.  
Learn more at: [www.fertilitypedia.org/edu/symptoms/absence-of-menstrual-periods-1](http://www.fertilitypedia.org/edu/symptoms/absence-of-menstrual-periods-1)

**Chronic pelvic pain**  
Pain in the area of the pelvis, that lasts more than six months.  
Learn more at: [www.fertilitypedia.org/edu/symptoms/chronic-pelvic-pain-1](http://www.fertilitypedia.org/edu/symptoms/chronic-pelvic-pain-1)

**Hematometra**  
An accumulation or retention of blood in the uterus.  
Learn more at: [www.fertilitypedia.org/edu/symptoms/hematometra](http://www.fertilitypedia.org/edu/symptoms/hematometra)

**Infertility**  
The failure to achieve a clinical pregnancy after 12 months or more of regular unprotected sexual intercourse.  
Learn more at: [www.fertilitypedia.org/edu/symptoms/infertility](http://www.fertilitypedia.org/edu/symptoms/infertility)

**Irregular bleeding between the menstrual periods**  
Bleeding that occurs irregulary between the menstrual period.  
Learn more at: [www.fertilitypedia.org/edu/symptoms/irregular-bleeding-between-the-menstrual-periods-1](http://www.fertilitypedia.org/edu/symptoms/irregular-bleeding-between-the-menstrual-periods-1)

**Painful menstruation**  
Dysmenorrhea is a pain during menstruation. It is the most common menstrual disorder.  
Learn more at: [www.fertilitypedia.org/edu/symptoms/painful-menstruation](http://www.fertilitypedia.org/edu/symptoms/painful-menstruation)

**Therapies**

**Egg donation**  
Process by which a woman donates eggs for purposes of assisted reproduction or biomedical research.  
Learn more at: [www.fertilitypedia.org/edu/therapies/egg-donation](http://www.fertilitypedia.org/edu/therapies/egg-donation)

**ICSI**  
A micromanipulative fertilization technique in which a single sperm is injected directly into an egg.  
Learn more at: [www.fertilitypedia.org/edu/therapies/icsi](http://www.fertilitypedia.org/edu/therapies/icsi)
Sperm donation
The procedure in which a man (sperm donor) provides his sperm for fertility treatment.
Learn more at: www.fertilitypedia.org/edu/therapies/sperm-donation

Standard IVF
A process in which an egg is fertilised by sperm outside the body: in vitro. Own or donated gametes may be used.
Learn more at: www.fertilitypedia.org/edu/therapies/standard-ivf

Sources

“Stenosis of uterine cervix” —sourced from Wikipedia licensed under CC BY-SA 3.0

“Cervical stenosis following electrosurgical conization” —by Monteiro and Russomano licensed under CC BY-NC 4.0

“Levonorgestrel-releasing intrauterine system placement for severe uterine cervical stenosis after conization: two case reports” —by Motegi and Hasegawa licensed under CC BY 4.0

“Cervical dilation” —sourced from Wikipedia licensed under CC BY-SA 3.0

“Analysis of cervical resistance during continuous controllable balloon dilatation: controlled clinical and experimental study” —by Arsenijevic and Milosevic licensed under CC BY 4.0

“Misoprostol” —sourced from Wikipedia licensed under CC BY-SA 3.0