



Pelvic Organ Prolapse (POP)

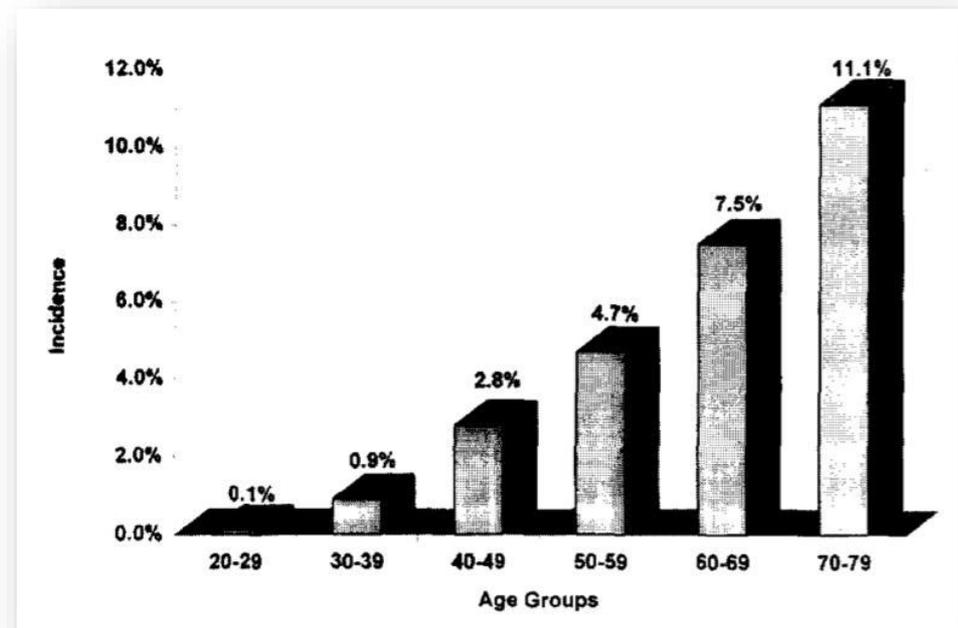
Dr. Ahlam Al-Kharabsheh
Assistant Professor, OBS & GYN department
Mu'tah University

Pelvic Organ Prolapse

- ▶ A prolapse is a protrusion of an organ or structure beyond its normal anatomical site.
- ▶ Pelvic Organ Prolapse (POP) is usually classified according to its location and the organ contained within it.

Prevalence

- ▶ It affects 12 – 30 % of multiparous and 2% of nulliparous women.
- ▶ It is extremely common problem. About 11 % of women will have one kind of the operation for prolapse during their life.*



*Olsen AL, et al. Obstet Gynecol. 1997; 89(4):501-6

Classification

I- Vaginal wall prolapse:

A- Anterior vaginal wall prolapse (Anterior compartment prolapse):

- urethrocele.
- Cystocele.
- cystourethrocele.

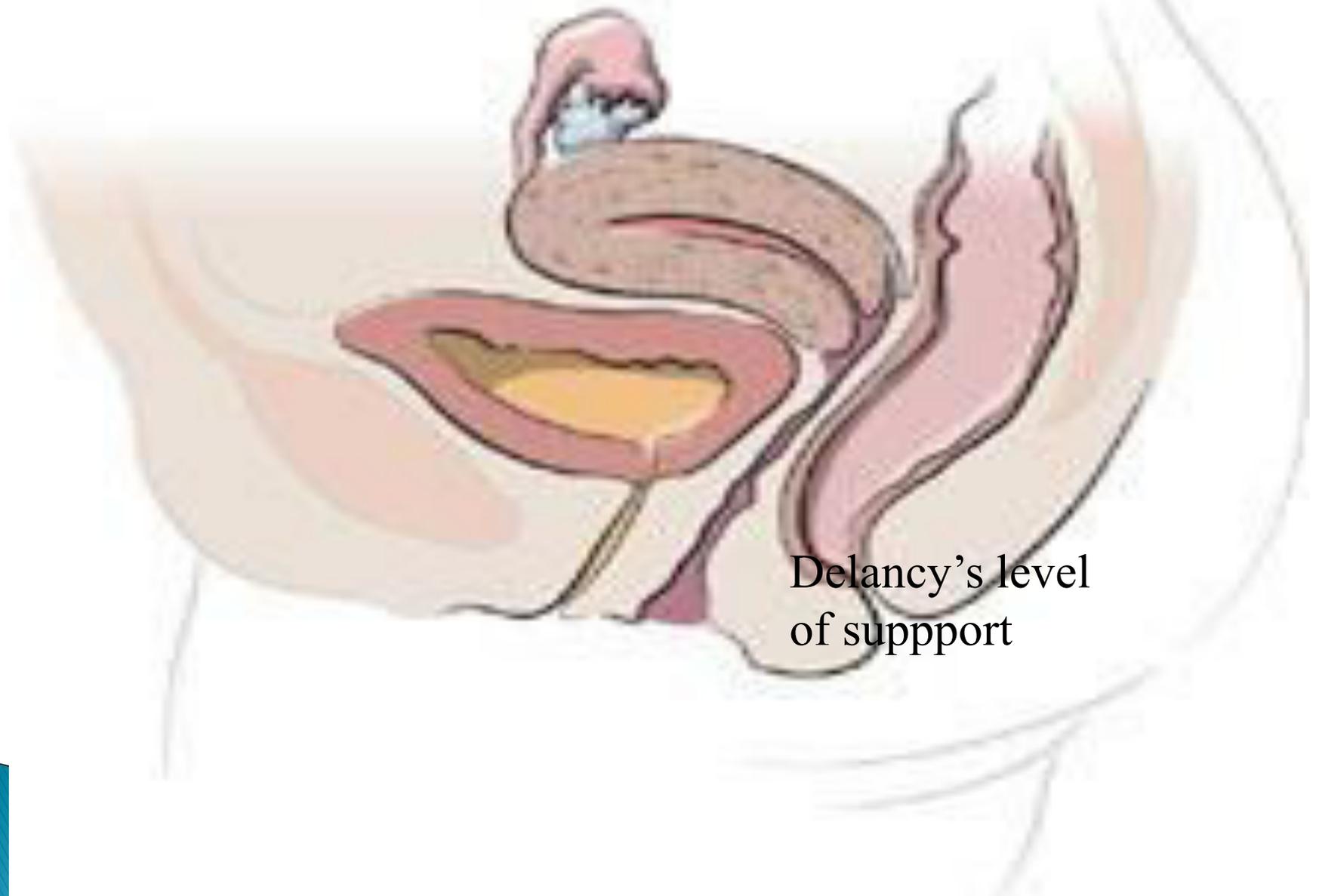
B- Posterior vaginal wall prolapse (Posterior compartment prolapse):

- Rectocele.
- Enterocele.

C- Apical vaginal wall prolapse: (Apical compartment prolapse)

- Vault prolapse (after hysterectomy).

Normal Female Anatomy



Delancy's level
of support

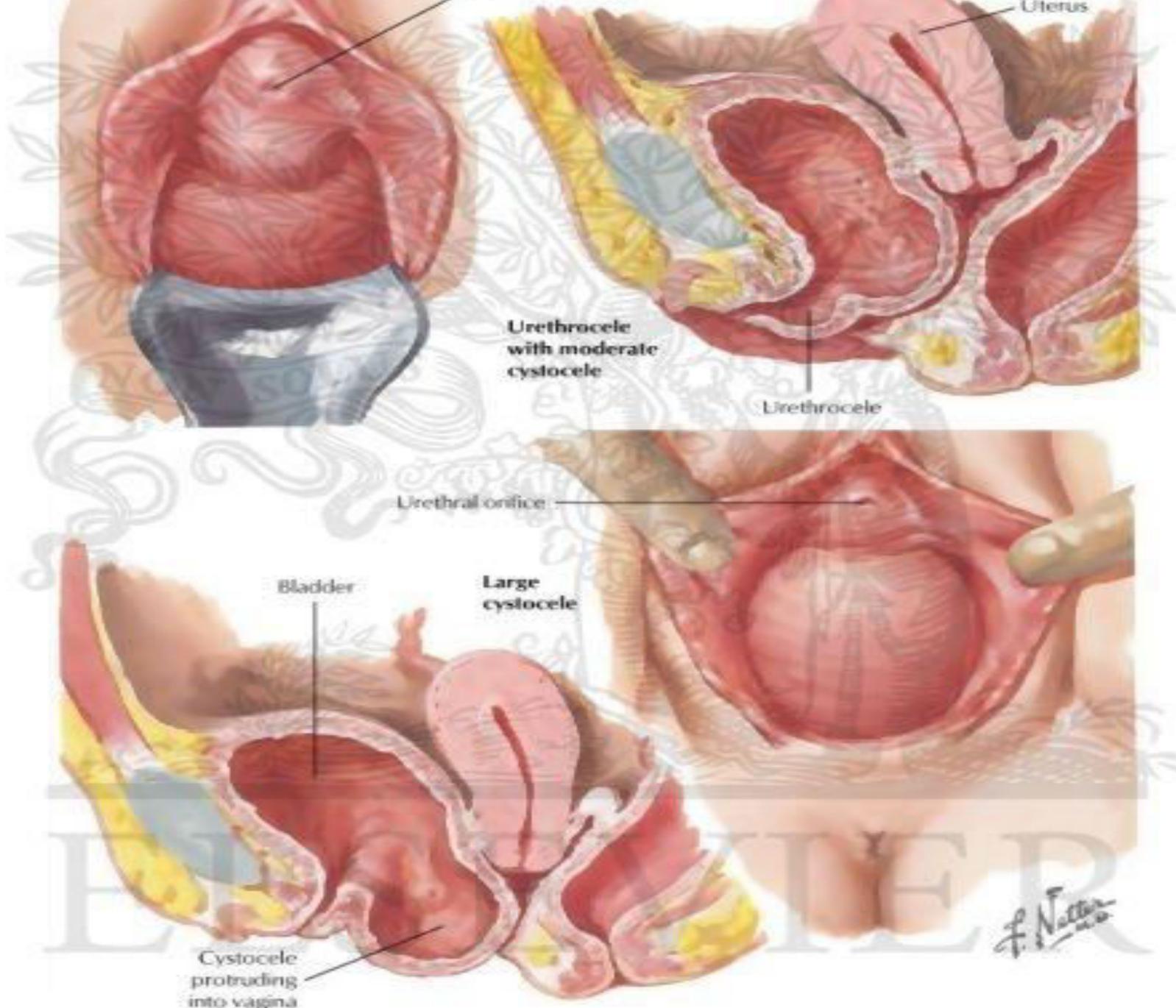
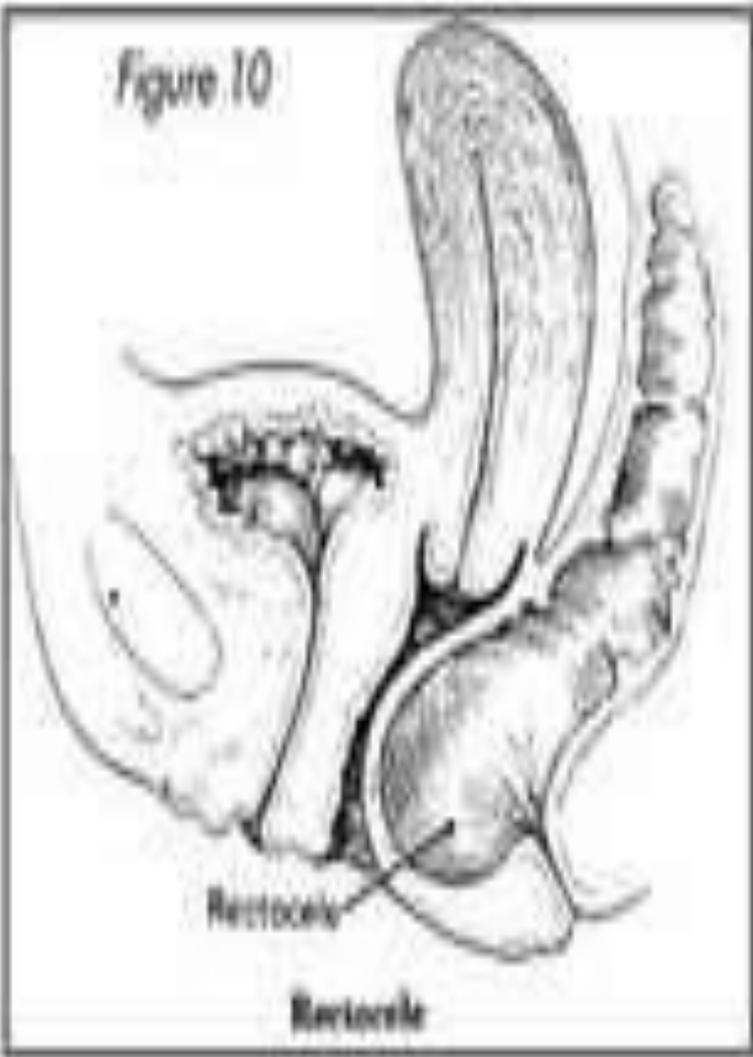


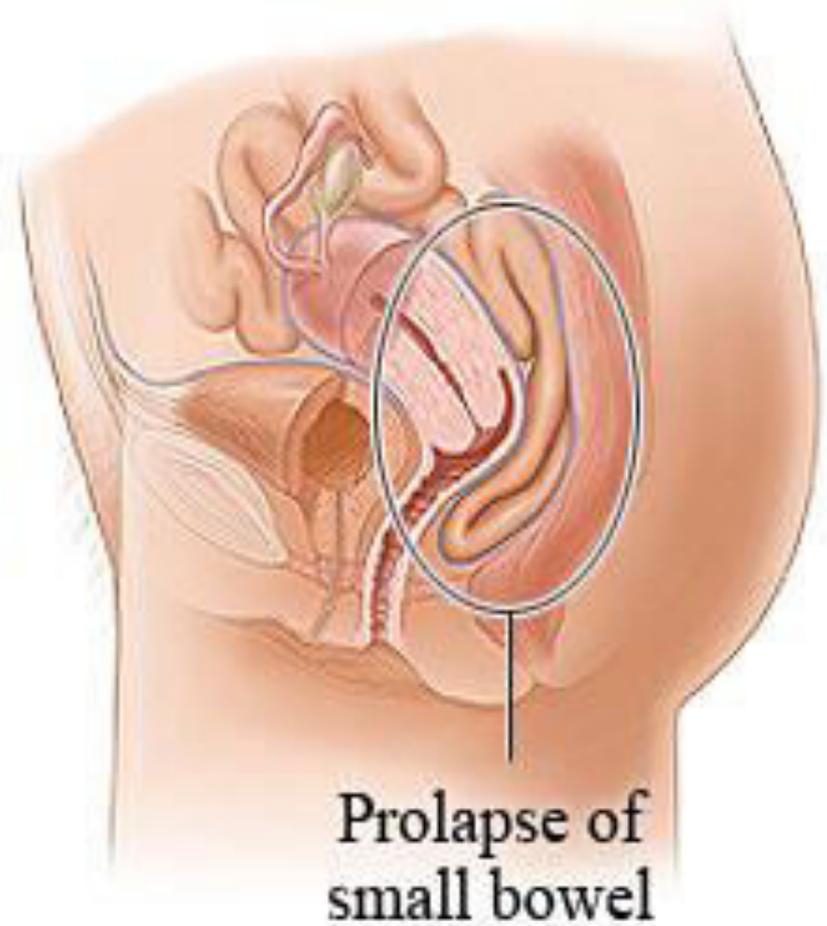
Figure 10



Normal female pelvic anatomy



Enterocoele



Classification

II- Uterine prolapse:Of 3 grades:

Grade 1: descent within the vagina.

Grade 2: Descent of the cervix outside the introitus but not the body of the uterus.

Grade 3: Descent of the whole uterus outside the introitus (Procidentia).

III- Combined type.

Prolapsed Uterus

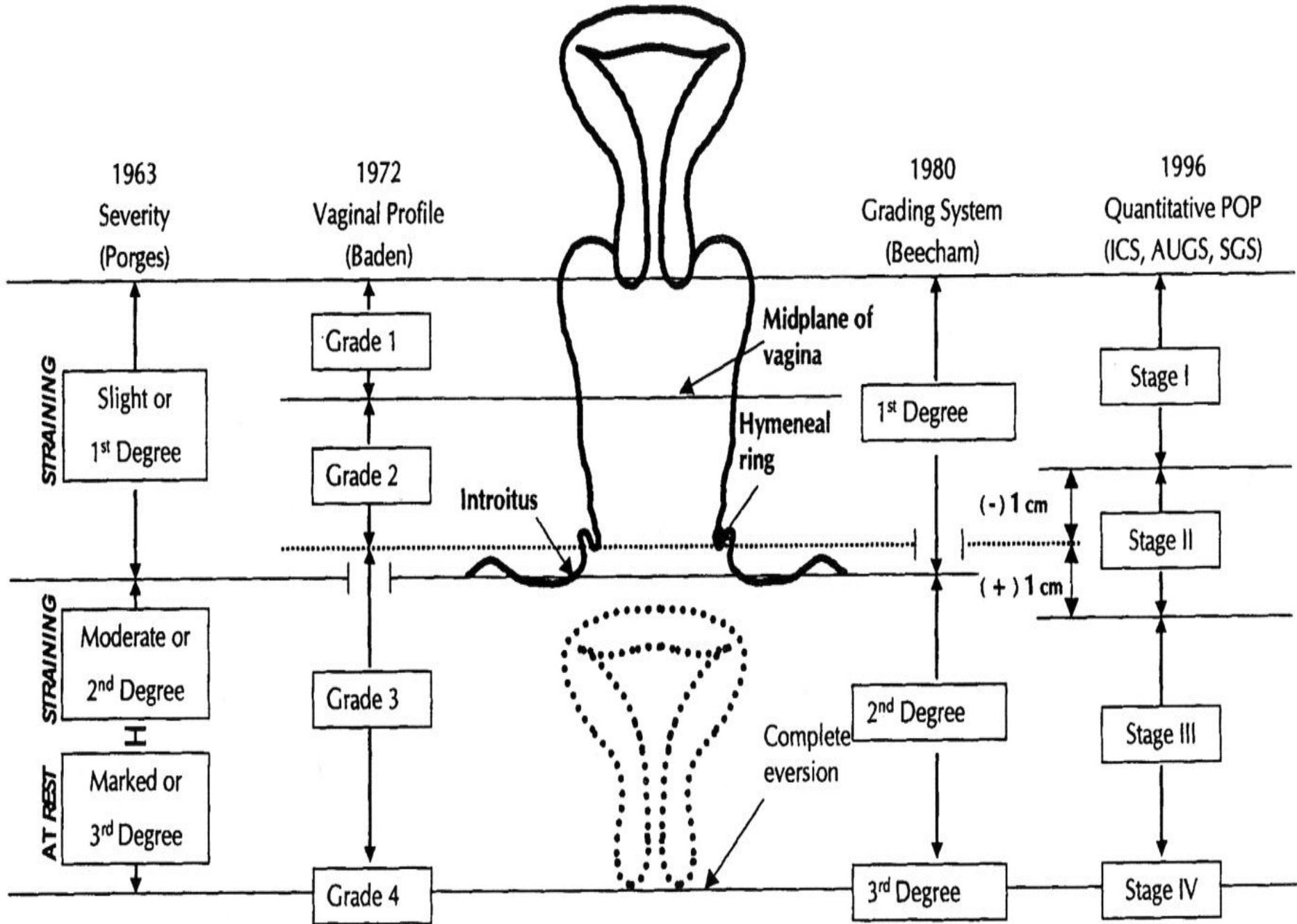


A close-up photograph of a person's face, specifically the mouth and chin area. The person's lips are slightly parted, and the skin appears to be in the process of healing or has a specific texture. The lighting is warm and focused on the central part of the face.

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The Baden and Walker Grading System (1968)

Grade 0	no prolapse
Grade 1	prolapse halfway to the hymen
Grade 2	prolapse to the introitus
Grade 3	prolapse halfway beyond the hymen
Grade 4	complete prolapse

ICS CLASSIFICATION (1996) Quantitative Pelvic Organ Prolapse (POP-Q)

- ▶ The topography of vagina is described using six points (2 on anterior vaginal wall, 2 on the superior vagina, 2 on the posterior vaginal wall). In addition to other 3 points.

+2 Aa	+5 Ba	+9 C
4.5 gh	1 pb	8 tvl
+2 Ap	+5 Bp	—

ICS CLASSIFICATION (1996) Quantitative Pelvic Organ Prolapse (POP-Q), Simplified

- ▶ Stage 0: no prolapse
- ▶ Stage I: the most distal portion of the prolapse is > 1 cm above the level of the hymen
- ▶ Stage II: the most distal portion of the prolapse is ≤ 1 cm proximal to or distal to the hymen
- ▶ Stage III: the most distal portion of the prolapse is > 1 cm below the plane of the hymen.
- ▶ Stage IV: complete eversion of the total length of the vagina.

Etiology of Prolapse

1- Congenital (genetic factor):

- ▶ Prolapse may occur in nulliparous.
- ▶ More common in certain races than others.
- ▶ It is familial.

2- Childbirth:

- ▶ Multiparity.
- ▶ Prolonged labor.
- ▶ Difficult vaginal delivery. (The single major factor for POP)

Etiology of Prolapse

3- After hysterectomy. (Incidence 1-10% & usually accompanied by enterocele (70%).

4- Raised intra-abdominal pressure:

- ▶ **Chronic cough.**
- ▶ **Chronic constipation.** (Cretinism)
- ▶ **Pregnancy, labor and delivery.**
- ▶ **Large pelvic and abdominal tumor.**
- ▶ **Ascitis.**

5- Ageing: common in post menopausal women.

6- Obesity (BMI >25).



Clinical features

History:

- Lump protruding from the vagina either on straining or even at rest.
- Lower abdominal discomfort and back pain.
- In anterior compartment prolapse: urinary frequency, urgency, voiding difficulty, urinary tract infections and stress incontinence.
- Posterior compartment prolapse: incomplete bowel emptying, constipation.
- Sexual dysfunction.

POPDI-6: Pelvic organ prolapse distress inventory 6

PISQ-12: Pelvic organ prolapse/urinary incontinence
sexual function questionnaire

**** Procidentia**: Bloody vaginal discharge due to ulceration
and infection of the most dependent part of
prolapse(**Decubitus ulcer**).

Abdominal examination: to exclude tumors, organomegaly and ascitis.

Vaginal examination:

- On dorsal position, the prolapse could be seen protruding through the introitus. If not, the patient should be asked to push down or cough.

Clinical features

- **Any ulceration should be detected.**
 - **Bimanual exam to exclude pelvic tumors.**
 - **By Sim's speculum and the patient in the left lateral position, the type of prolapse should be identified.**
 - **By combined rectal and vaginal digital exam, we can differentiate between rectocele and enterocele.**
- 

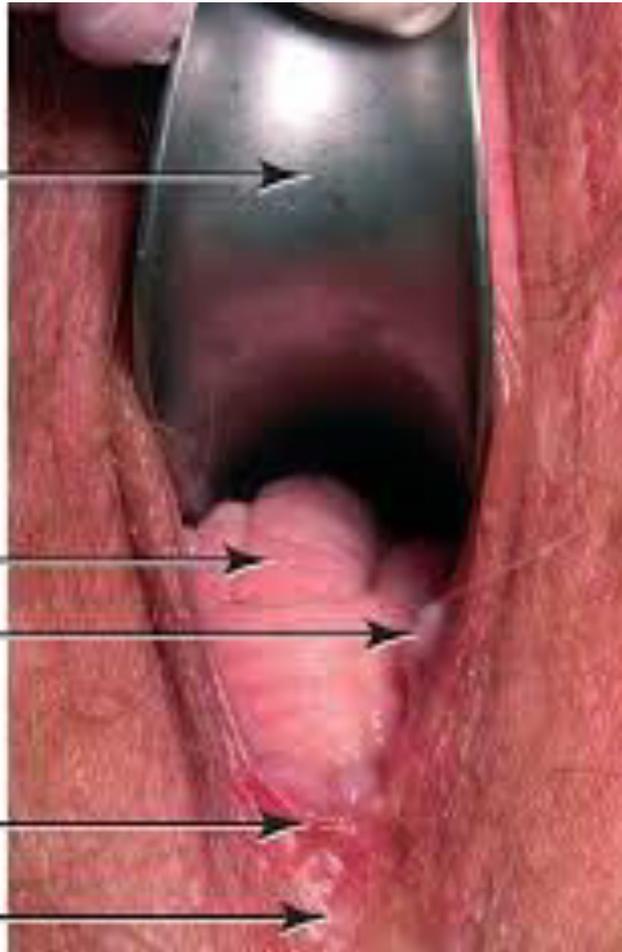
Speculum placed
along anterior
vagina to isolate
posterior prolapse

Rectocele

Carunculae
myrtiliformis

Frenulum of
labia minora

Perineal body



Paraurethral recess

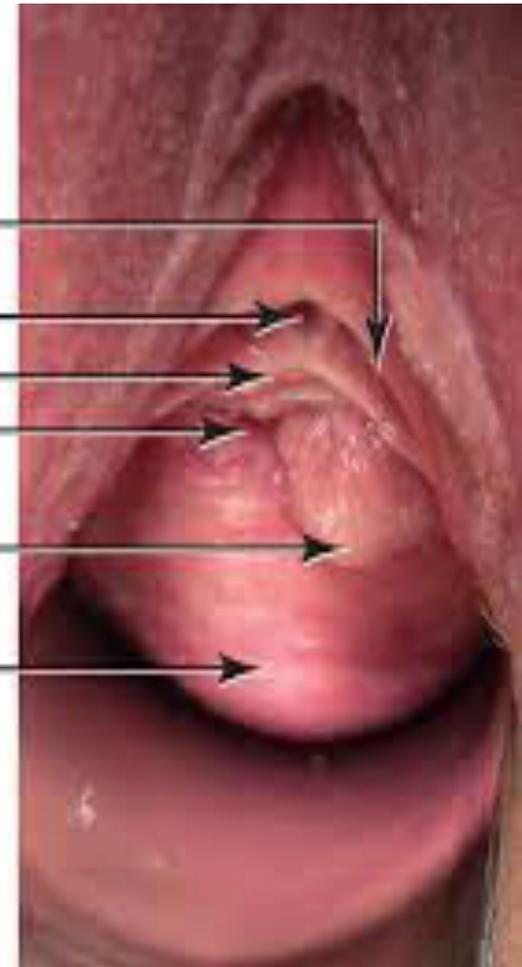
Urethra

Submeatal sulcus

Transverse vaginal
sulcus

Oblique vaginal fold

Bladder sulcus



Differential diagnosis

- ▶ **Congenital or inclusion vaginal cysts.**
- ▶ **Urethral diverticulum.**
- ▶ **Large uterine polyp.**
- ▶ **Pedunculated fibroid.**

Investigations

- ▶ **In case of urinary symptoms, GUE, urine culture, cystometry, and cystoscopy may be considered to exclude local causes in the bladder.**
 - ▶ **In major degree of prolonged uterine prolapse, renal function should be studied to exclude renal failure due to kinking of the ureters.**
 - ▶ **Imaging study: MRI.**
- 

Treatment

The choice of treatment depends on:

- **The patient wish.**
- **Age of patient and parity.**
- **Preservation of sexual function.**

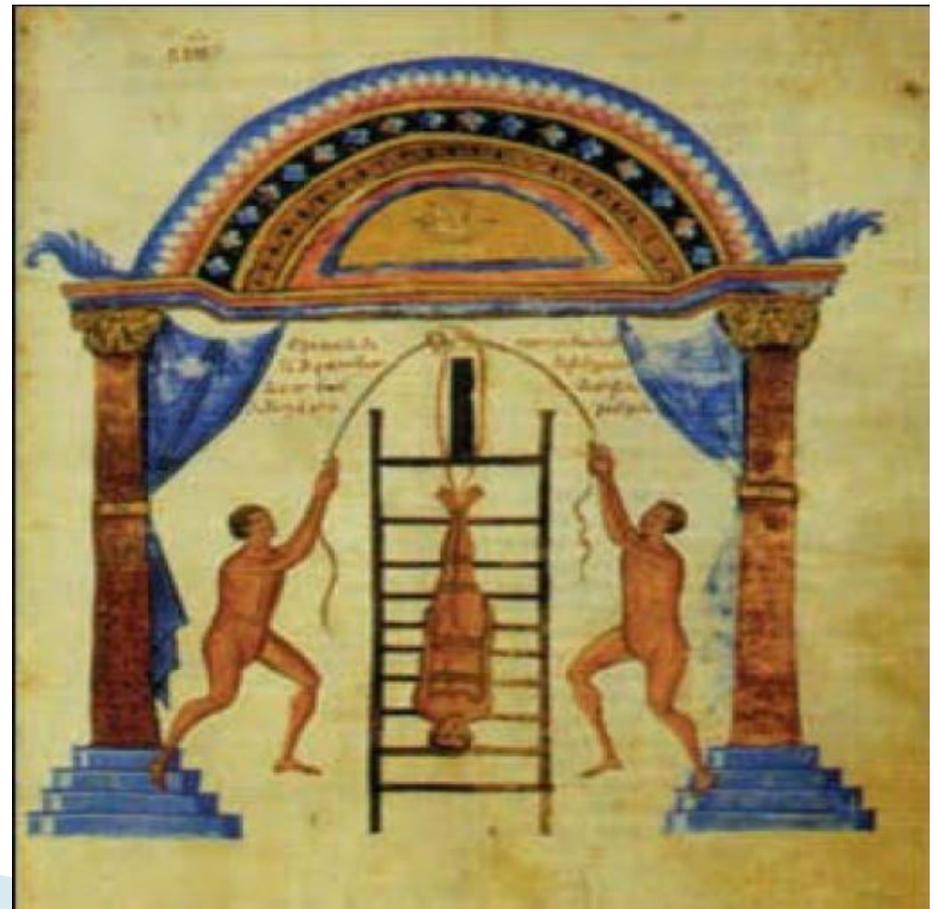
The treatment is conservative and/or surgical.

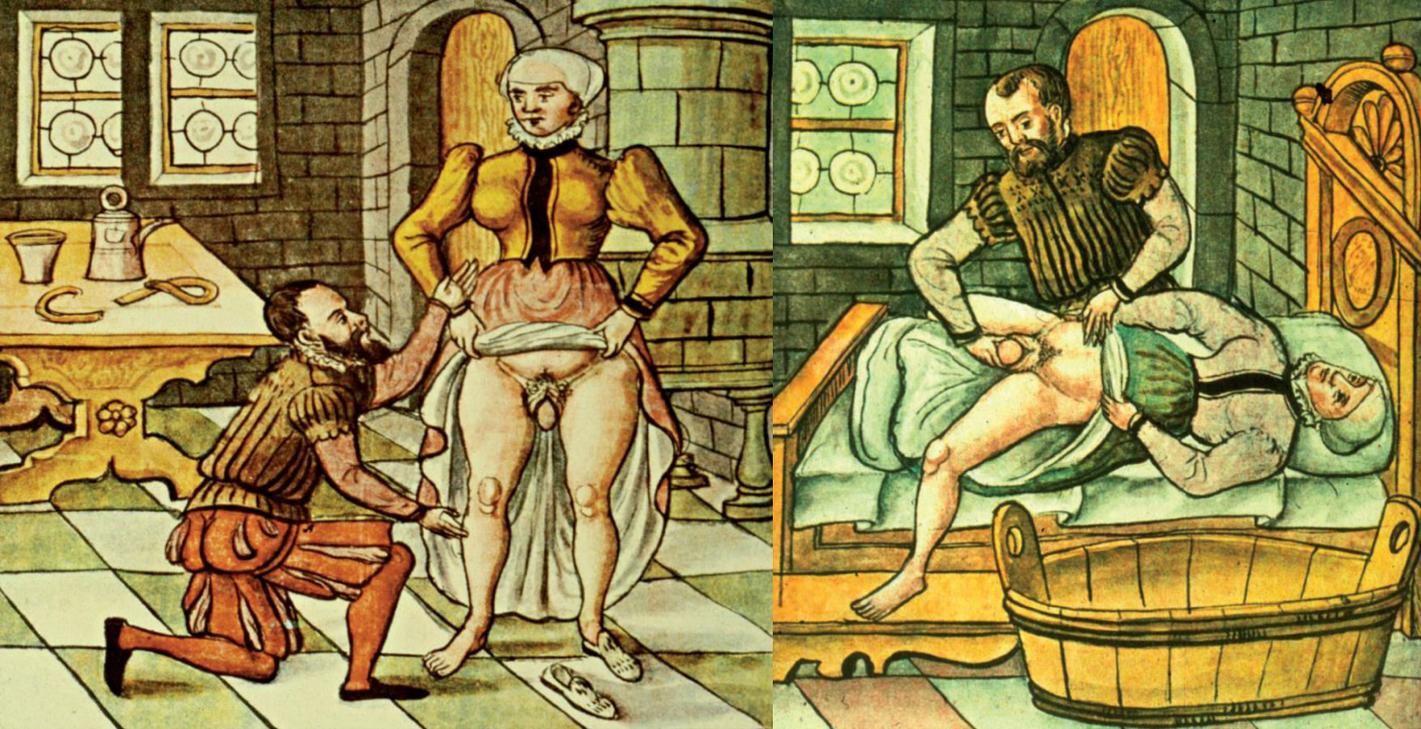
History of POP treatment

Kahun gynecological papyrus



Hippocratic Succussion

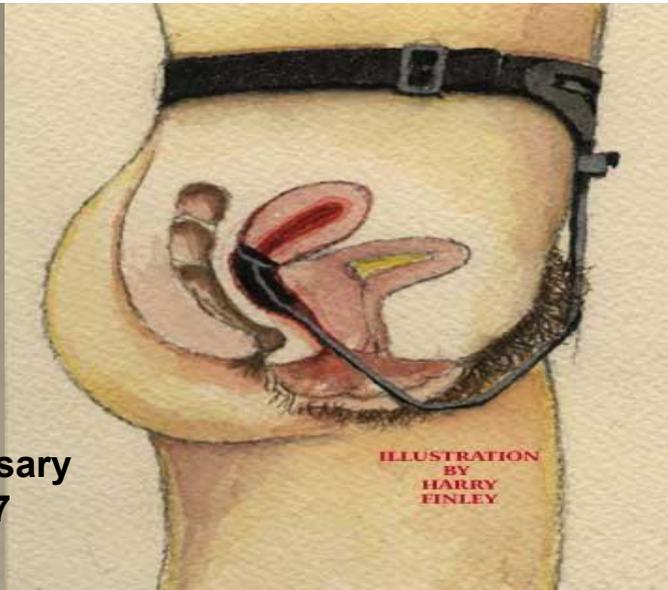




19th
century



Pessary
1867



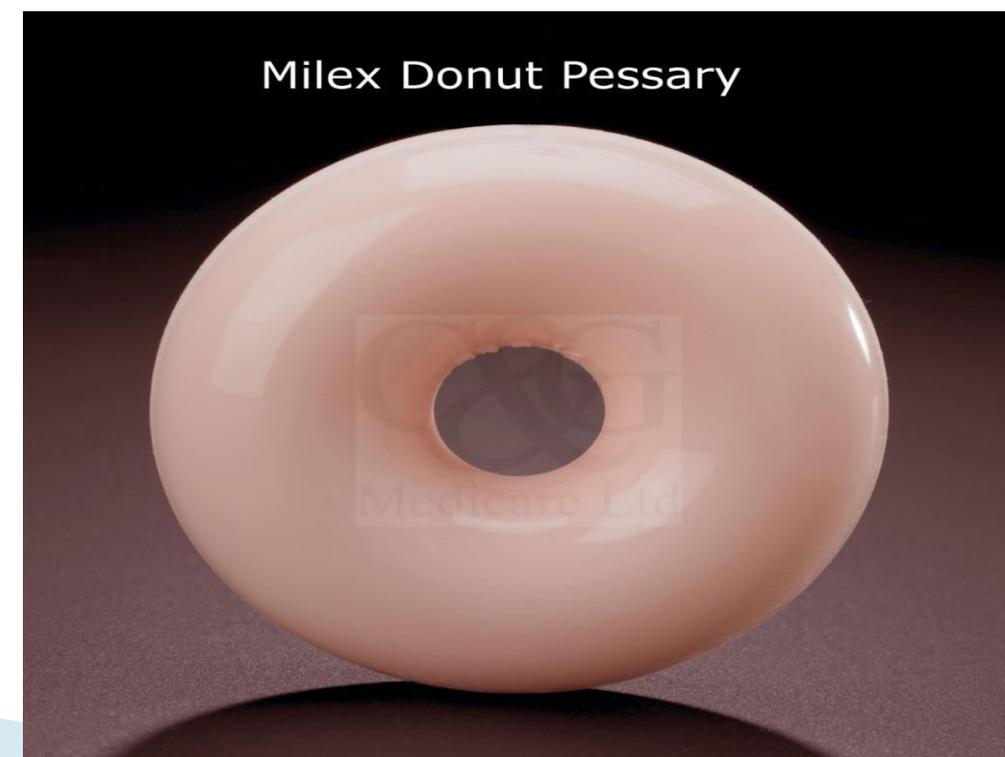
Conservative treatment

- Attempt should be made to correct obesity, chronic cough and constipation.
- If decubitus ulcer is found, then local estrogen for 7 days should be used.
- Pelvic floor muscle exercises.

Pessary:

Support Pessary: Ring Pessary:

- A silicon rubber-based ring pessaries are most popular for conservative therapy.
- **Space-Filling Pessary:** Donut, Gellhorn.



Conservative treatment

- ▶ They are inserted in the vagina, but should be changed at regular intervals.
- ▶ The use of ring pessaries may be complicated by vaginal ulceration and infection.

Indications of pessaries:

1. As a therapeutic test.
2. Medically unfit for surgery or refused surgery.
3. During and after pregnancy.
4. While awaiting for surgery.

Surgical treatment:

Cystourethrocele: Anterior colporrhaphy operation.

Rectocele: Posterior colpo-perinorrhaphy.

Enterocele: Posterior colporrhaphy with excision of the peritoneal sac.

Uterine Prolapse:

- ▶ **Vaginal hysterectomy**: in elderly patients and those who completed the family or with other uterine or cervical pathology. Adequate vault support of the utero-sacral ligament or the sacrospinous ligament (SSL fixation) is needed.

Surgical treatment (uterine sparing)

- ▶ ***Manchester operation:*** amputation of the cervix, bringing of the cardinal ligaments and uterosacral ligaments anterior to the lower uterine segment followed by vaginal repair.
- ▶ ***Sacrohysteropexy:*** this is an abdominal operation. It involves attachment of a synthetic mesh from the uterocervical junction (isthmus) to the anterior longitudinal ligament of the sacrum.
- ▶ ***Trans-vaginal mesh (TVM):***

Surgical treatment

Vault prolapse:

- ▶ **Sacrocolpopexy:** The vaginal vault is attached to the sacrum by synthetic mesh.
- ▶ **Sling operation:** The vaginal vault is slinged to the anterior abdominal wall by two strips of anterior rectus sheath.
- ▶ Both operations are carried out by abdominal approach.

▶ **Vaginal procedures:**

Sacrospinous ligament fixation (SSLF), Uteroscaral ligament suspension, ileococcygeous suspension, Vaginal mesh kits,

Thank you
Thank you

