DEFINITION

"Congenital anomaly of the genitalia is a medical term referring to any physical abnormality of the male and female internal or external genitalia present at birth"

CAUSES

- Exact cause is unknown
- Hormone deficiency and excess
- Teratogenic effects
- Genetic determination

DEVELOPMENTAL ANOMALIES OF EXTERNAL GENITALIA

❖ PERINEAL OR VESTIBULAR ANUS-

- Detected at time of birth.
- The anal opening is situated either close to posterior end vestibule or in vestibule.
- Rarely it is situated in vagina (congenital recto vaginal fistulla)
- Future reproduction not a problem, generally ceaserean section advised.

***** ECTOPIC URETER-

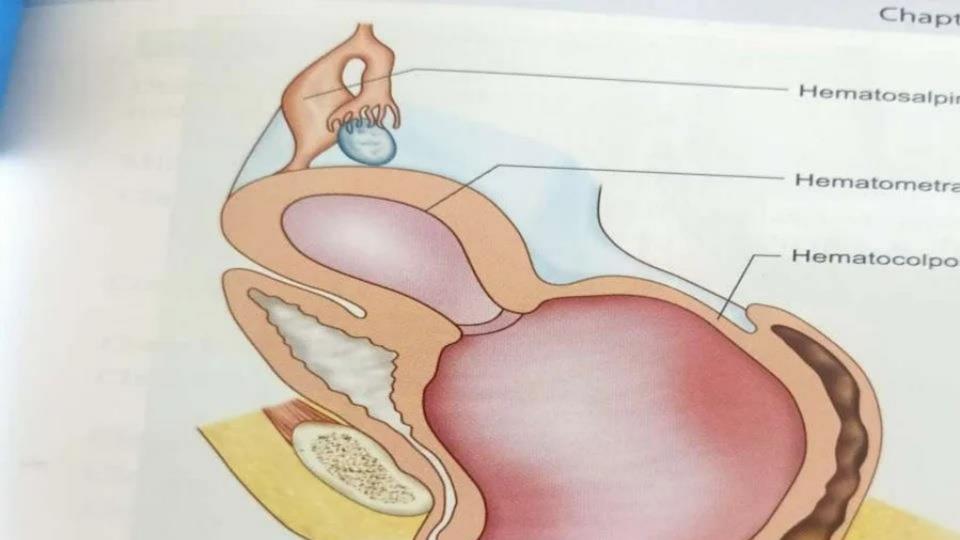
VAGINAL ABNORMALITIES

- **❖** NARROW INTROITUS-
- Revealed after marriage because "dyspareunia" may be the first complaint.
 - It may be detected during investigation of infertility
- Surgical enlargement is treatment.

HYMEN ABNORMALITY Imperforate hymen is important abnormality .

Hematometra)

- Always unnoticed until 14-16 years of age.
- Uterine functioning is normal menstrual blood is pent up inside vagina behind
- hymen.(Cryptomenorrhoea)
 Depending upon amount of blood accumulated fi descend into vagina (Hematocolpos)
- The uterus is next involved and cavity dialated



- > Symptopms-
- Periodic lower abdominal pain, continuous nature.
- Primary amenorrhoea.
- Dysuria and retention of urine due to elongation of urethra.
- On examination-
 - Abdominal exam. : Suprapubic swelling

>TEATMENT -

- Incision made in hymen, quadrants of the hymen partially excised, not too close to vaginal mucosa.
- Spontaneous escape of dark tarry colored blood following incision.
- Antibiotic should be given

❖ VAGINAL MALDEVELOPMENTS-

- Agenesis of vagina –
- It is a birth defect when vagina does not develop fully. (1:5000)
- Septate vagina-
- Complete or incomplete longitudinal septum.
- Transverse vaginal septum.
- May be asymptomatic or may represent

➤ Partial atresia of vagina-

> Complete atresia of vagina-

- Segment of vagina may be atretic, it may be associated with cervical atresia.
- Primary amenorrhoea, periodic pain in lower abdomen.
- Excision of atretic portion and suturing the margin of vaginal wall.

ASSOCIATED ABNORMALITIES

- Vesico-vaginal fistula- Abnormal opening between vagina and bladder.
- Recto-vaginal fistula- Abnormal opening between rectum and vagina.

UTERINE ANOMALIES

· American Fertility Society (AFS) classification-

Class I: Mullerian agenesis/ Hypoplasia

Class II: Unicornuate uterus with or without rudimentory horn.

Class III: Uterus didelphys

Class IV: Bicornuate uterus

Class V: Sentate literus

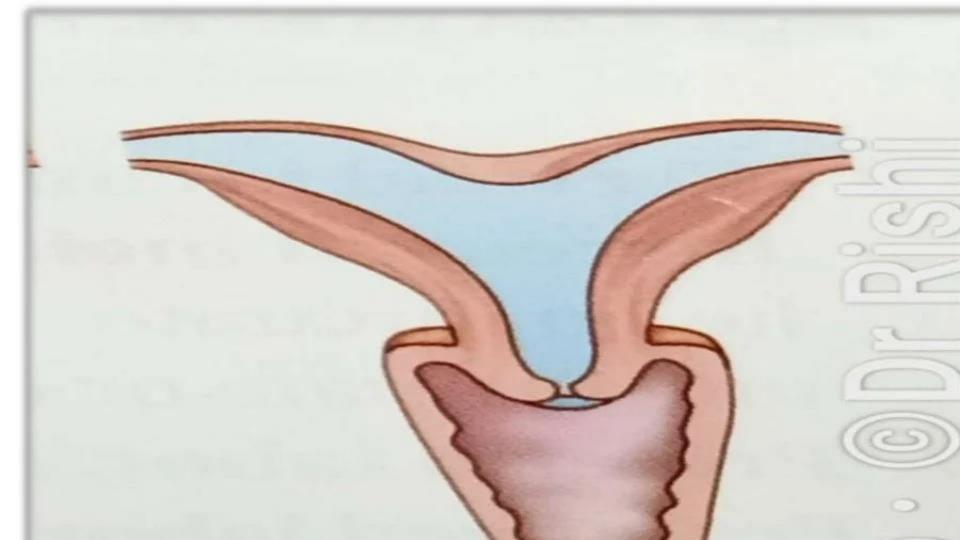
MULLERIAN AGENESIS

Failure of development of one or both Mullerian ducts:

- Absence of both ducts leads to absence of uterus including oviduct and absence or vagina as well.
 - Primary amenorrhoea is chef complaint.
- Absence of one duct leads to unicornuate

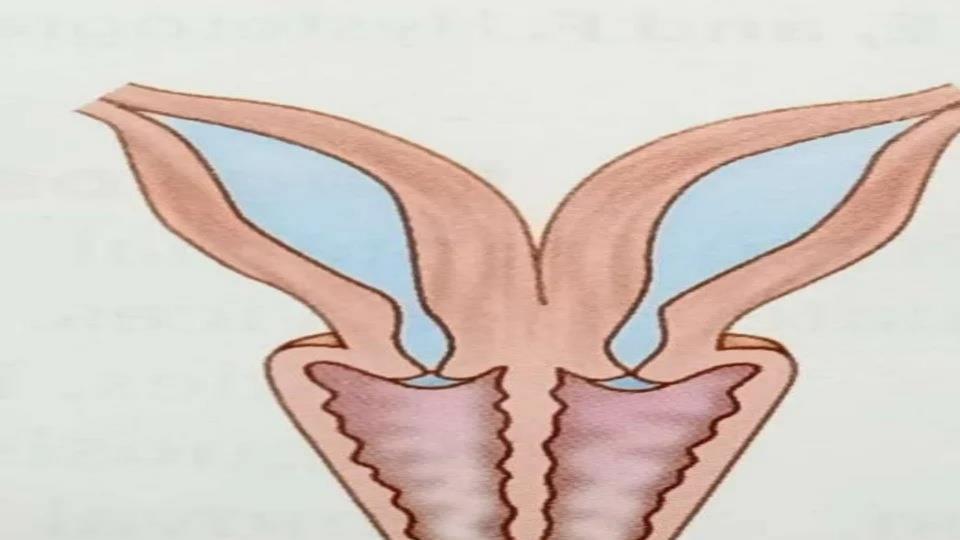
ARCUATE UTERUS (18%)

- Fundus looks concave with heart shaped cavity outline.
- This looks more like a normal uterus, except it has a deep or slight indentation at the top.
- It is a common abnormality, affecting 1:25 in general population



UTERUS DIDELPHYS (8%)

- Complete lack of fusion of the Mullerian ducts with a double uterus and double vagina.
- Uterus has two inner cavities, each cavity may leads to own cervix and vagina, so there are two cervix and two vaginas.
- It is uncommon affecting 1:350 women.

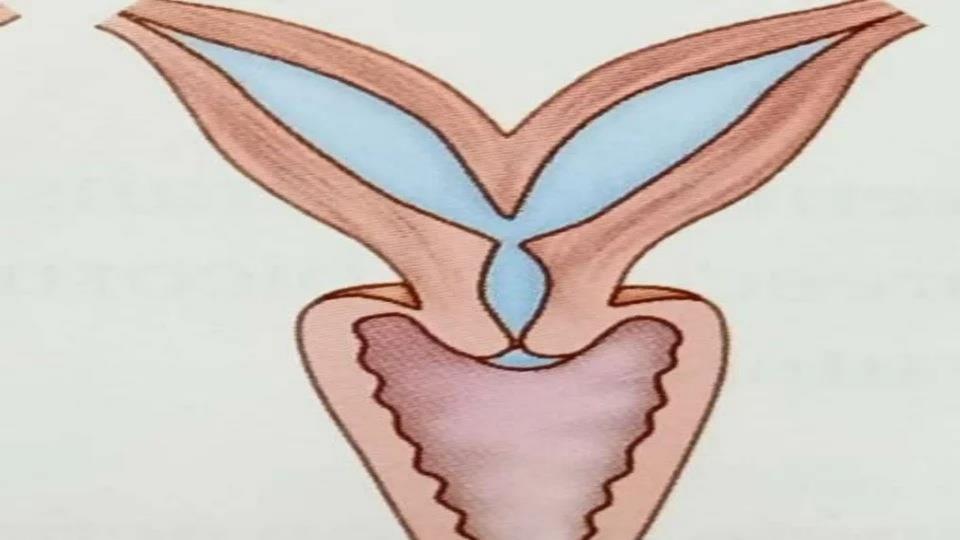


UTERUS BICORNIS (26%)

There are varying degrees of fusion of muscle walls of two ducts.

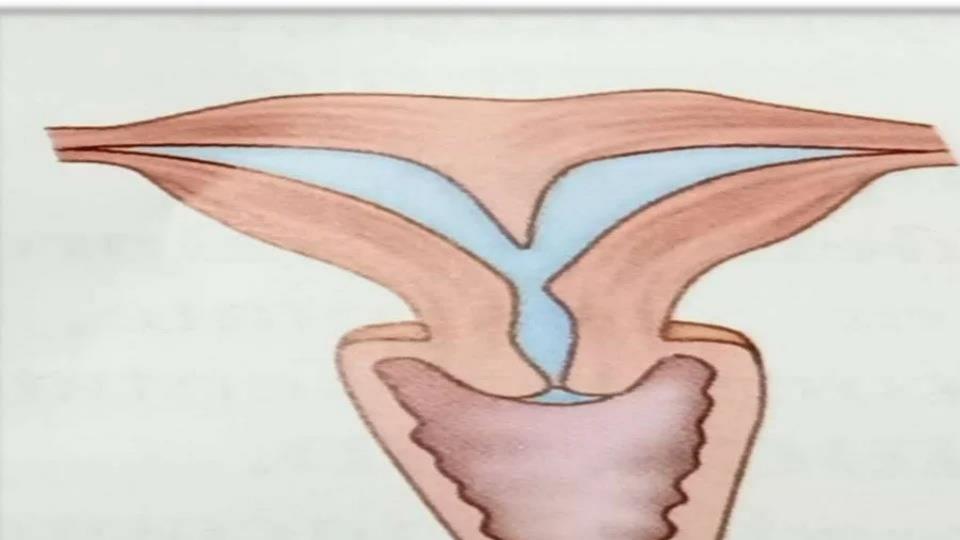
 Uterus bicornis bicollis: There are two uterine cavities with double cervix with or without vaginal septum.

■ Ilterus hicornis unicollis: There are two



SEPTATE UTERUS (35%)

 Two Mullerian ducts fused together but there is persistence of septum in between two either partially or completely



UNICORNUATE UTERUS (10%)

Failure of development of one Mullerian duct

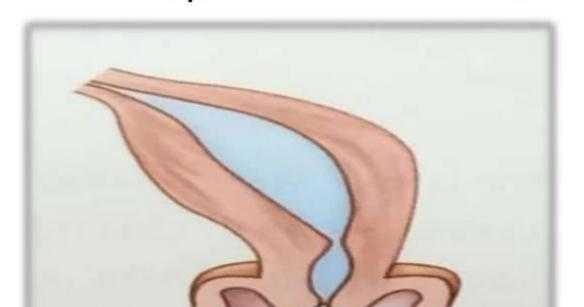




Fig. 4.6C: Hysterographic view of a septate uterus (Courtesy: Dr SS Murmu, RMO-clinical tutor, BSMCH)



Fig. 4.6D: Hysterographic view of an arcuate u laparoscopy





DES-RELATED ABNORMALITIES

It is due to DES exposure during intra uterine life, variety of mal formations are included-

- Vagina: Adenosis, adenocarcinoma
- Cervix : Cockscomb cervix, cervical collar.
- Uterus: Hypoplasia, T-shaped cavity, uterine synechiae.

CLINICAL FEATURES

❖GYNAECOLOGICAL-

- Infertility and dyspareunia (vaginal septum)
- Dysmenorrhoea in bicornuate uterus or due to cryptomenorrhoea (pent up menstrual blood in rudimentary horn)
- Menstrual disorders like menorrhagia (due to

***** OBSTETRICAL-

- Midtrimester miscarriage
- Rudimentary horn pregnancy.
- Cervical incompetence
- Increased risk of mal presentation.
- Pre-term labor, IUGR,IUD.
- Prolonged labor (d/t inco-ordinated uterine actions)
- Obstructed labor (obstruction due to non gravid

INVESTIGATIONS

- Hysterography
- Hysteroscopy
- Laparoscopy
- TVS USG.
- MRI

TREATMENT

Reproductive outcome:

- Septate uterus (86%)
- Bicornuate uterus (50%)
- Unicornuate uterus (40%) poor
- Uterus didelphys has best possibilities of successful pregnancy. (64%)

TREATMENT:

- Rudimentary horn excision to reduce ectopic pregnancy risk.
- Unification operation in bicornuate and septate uterus.
- Hysteroscopic metroplasty resection of an intrauterine septum maintaing symmetrry of uterine cavity.(80-90% success rate)

OVIDUCT ABNORMALITIES

- Elongated fallopian tube
- Absent of one side tube.

OVARY ABNORMALITIES

- Gonadal agenesis.
- · Proconce of accordany avany

OTHER ABNORMALITIES

- LABIA MINORA- Labia fusion due to developmental defect.
- LABIA MAJORA- Hyperplastic, hypoplastic, abnormal fusion
- CLITORAL ABNORMALITY- Clitoral duplication, clitoral megally

THANK YOU