

Name: Dr. Sayali Ramdas Sawarkar

Title: "Unifying The Uteri: Metroplasty In Mullerian Anomalies"

Grant government medical college and Sir JJ group of hospital



- Abnormal fusion or incomplete absorption of the Müllerian ducts leads to congenital uterine anomalies, [incidence of 1/1200 to 1/600 fertile women]
- Most anomalies are asymptomatic and undiagnosed until associated with infertility or recurrent pregnancy loss.
- These anomalies lead to serious reproductive issues, including abortion, preterm labor, malpresentations, and breech
- Concurrent renal anomalies are often associated due to shared embryological origins.

OBJECTIVES:

- 1.To correct congenital uterine anomalies by unifying the uterine cavity.
- 2. To improve fertility and reproductive outcomes in women with structural anomalies.
- 3. To establish metroplasty as a safe and effective surgical option for such anomalies.

METHODS:

o Patient Selection: Women presenting with infertility or recurrent pregnancy loss associated with bicornuate or didelphys uteri.

• Procedure:

- A transverse lower abdominal incision was made to access the uterus.
- Both uterine cornua were incised along the medial aspect to expose the cavities.
- Myometrial edges were approximated and sutured in layers using Vicryl 2-0, ensuring a single unified cavity.
- Vasopressin was used to minimize blood loss, and care was taken to avoid injury to fallopian tubes.
- o Postoperative Protocol: Follow-up imaging (HSG/USG) confirmed cavity unification, and patients were advised cesarean delivery for future pregnancies.

RESULTS:

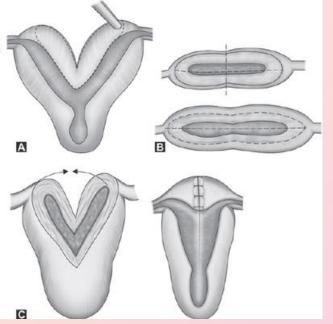
- 1.Case 1:A 28 yr old, MS 10 yrs, Nulligravida, with Primary infertility with Uterine didelphys with right hematometra and hematocolpos. Resolved with metroplasty, confirmed by USG-s/o Single uterine cavity
- 2.Case 2:A 33 yr old, MS 9 yrs., A2, with Secondary infertility with Bicornuate uterus, bicornuate uterus corrected by metroplasty; patient achieved full-term pregnancy.
- 3. Case 3: A 35 yr. Old, MS 8 yrs., A1, with Secondary infertility with Bicornuate uterus. Successful unification of uterine cavity with normal post-metroplasty imaging.
- Post-metroplasty imaging confirmed a single uterine cavity in all cases.
- Significant improvement in fertility outcomes with minimal complications.

CONCLUSION:

- Metroplasty is a reconstructive surgical procedure that effectively unifies uterine cavities in women with Müllerian
- oIt significantly improves fertility by restoring uterine anatomy, enhancing implantation success, and reducing pregnancy losses.
- Clinical outcomes demonstrate the utility of metroplasty in managing complex uterine anomalies.

CLINICAL SIGNIFICANCE:

- Improved fertility rates and successful term pregnancies after metroplasty.
- Recommended for patients with recurrent pregnancy loss or infertility when other causes are ruled out.
- This procedure bridges a critical gap in reproductive medicine for patients with structural anomalies.

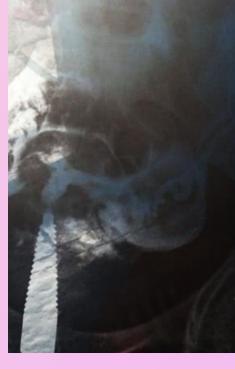












REFERENCES:

- 1. Hoffman BL, et al. Williams Gynecology. 3rd Ed.2016;422.
- 2. G. F. Grimbizis, M. Camus, B. C. Tarlatzis, J. N.Bontis, and P. Devroey. Clinical implications of uterine malformations and hysteroscopic treatment results. Human Reproduction Update. 2001; 7:161-174.
- 3. Thompson DP, Lynn HB. Genital anomalies asso. with solitary kidney. Mayo Clin Proc. 1966; 41: 538.
- 4. Rackow, B. W., & Arici, A. Reproductive performance of women with müllerian anomalies. Current opinion in obstetrics & gynecology. 2007;19: 229-237.

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