

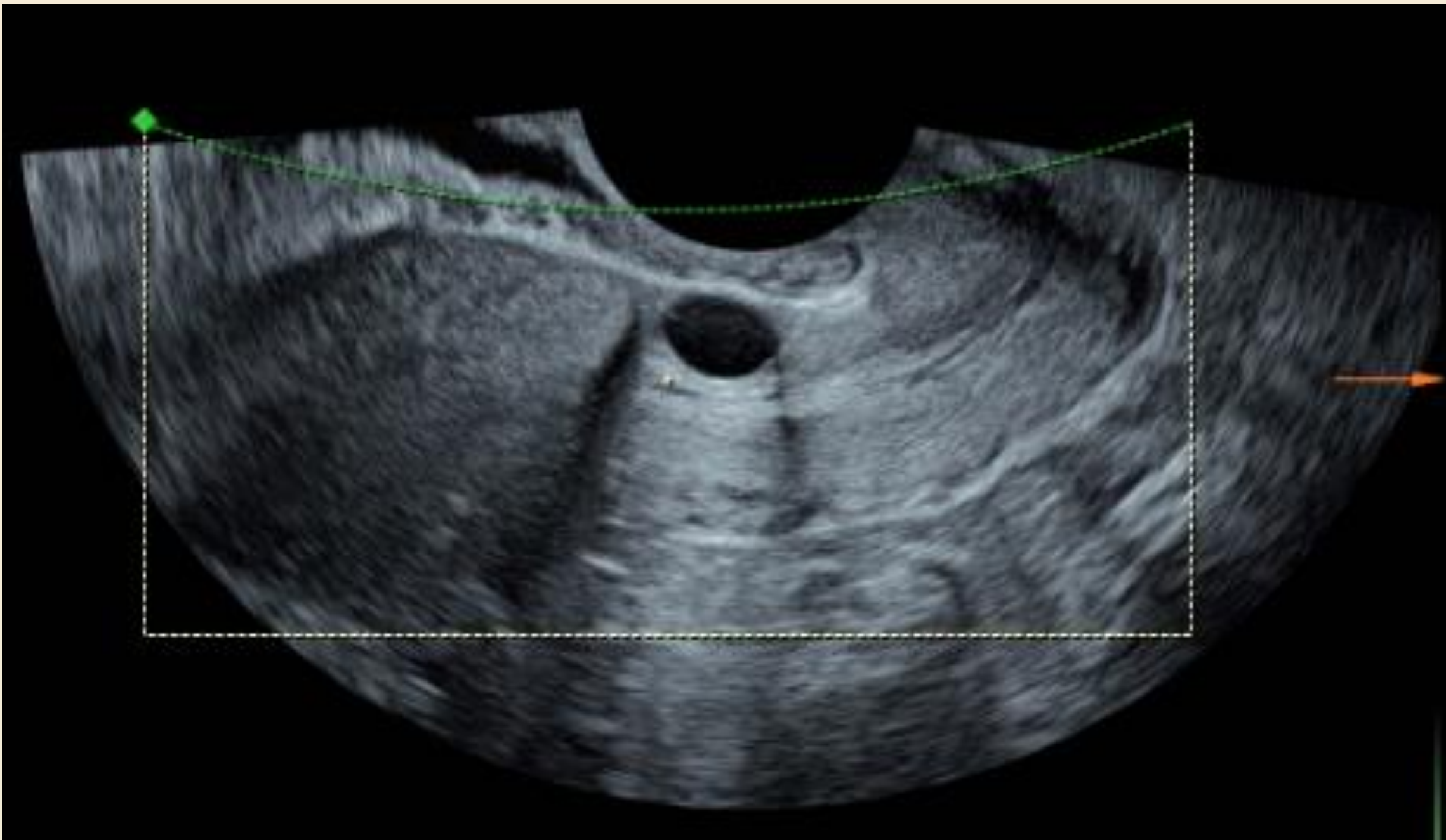
Laparoscopic Repair of Asymptomatic Caesarean Scar Niche in Fertility Planning

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Objective:

This report details the successful laparoscopic repair of an asymptomatic Caesarean scar niche (CSN) in a woman planning future pregnancies, emphasizing its role in fertility planning.



Discussion

- **Caesarean Scar Niche (CSN):** A concave defect at the Caesarean scar site
- **Complications:** Bleeding, dysmenorrhea, subfertility, uterine rupture, scar ectopic pregnancy
- **Diagnosis:** Transvaginal ultrasound (TVUS)
- **Management:**
 - Conservative for asymptomatic cases
 - Surgery for symptomatic cases or pregnancy planning to reduce risks
- **Laparoscopic Repair:** Minimally invasive, promotes quick recovery and proper scar healing

Background

29-year-old woman with two emergency Caesarean sections (2018, 2021)
Presented for coil removal to resume family planning

Imaging

7mm asymptomatic CSN detected via transvaginal ultrasound (TVUS)
Oval, anechoic, left-sided at Caesarean scar site
No myometrium, with a thin 1mm anterior serosal layer

Risks Discussed

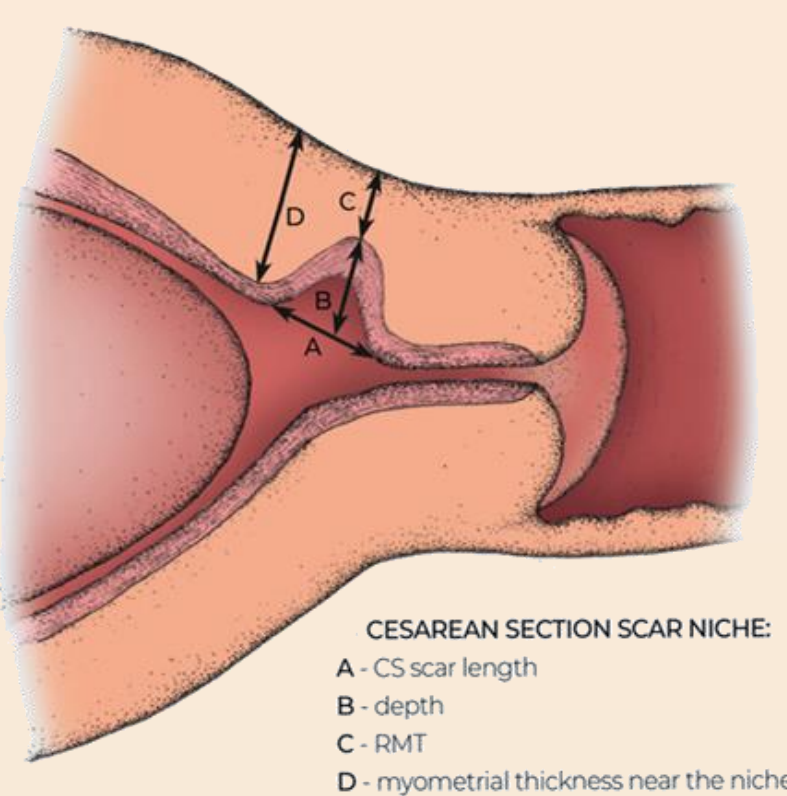
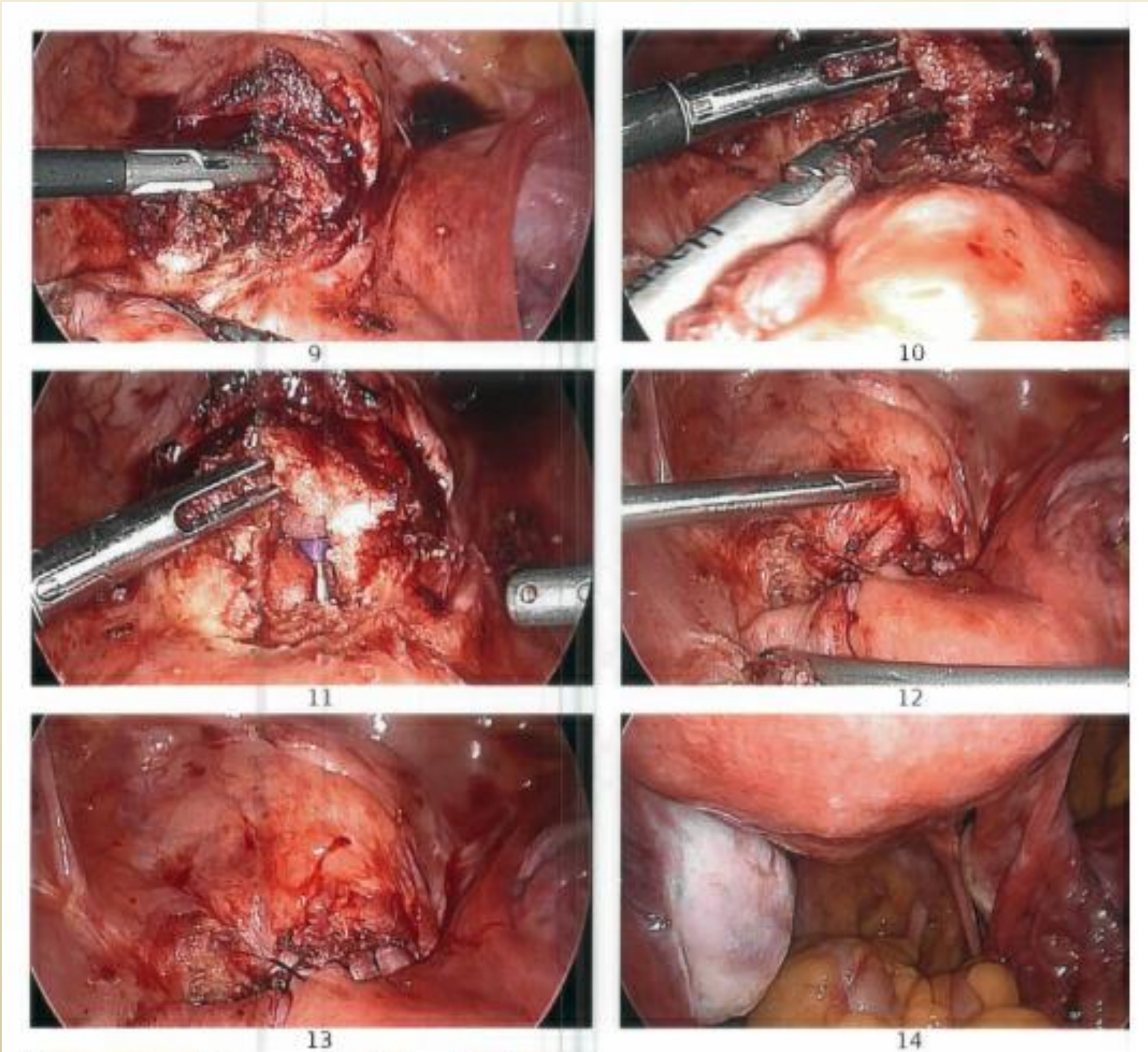
Subfertility, post-menstrual bleeding, uterine rupture, scar ectopic pregnancy

Intraoperative Findings

Dense adhesions between omentum and bladder near the umbilicus
Uterus adherent to bladder
Fibrotic tissue excised from scar site
Defect closed with Stratifix suture in two layers

Histology

Fibrous connective tissue consistent with C-section scar



Post-Operative Results

Follow-up

TVUS confirmed complete niche resolution and normal pelvic anatomy 2 months post surgery
Advice: Wait 6 months before conception for full scar healing



Conclusion:

Laparoscopic repair of an asymptomatic Caesarean scar niche offers a successful, minimally invasive solution to reduce risks such as subfertility and scar ectopic pregnancy in women planning future pregnancies.

References:

