

EP03.53 Spontaneous Heterotopic Pregnancy with Interstitial Implantation: Early Diagnosis and Spontaneous Resolution of the Ectopic Component

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Introduction: Heterotopic pregnancy, defined as the coexistence of an intrauterine and an ectopic pregnancy, is a rare entity in spontaneous conceptions, with an estimated incidence of approximately 1 in 30,000 pregnancies. Interstitial implantation represents a particularly uncommon form of ectopic pregnancy due to its location within the intramural segment of the fallopian tube. Early diagnosis is essential because interstitial pregnancies carry a high risk of catastrophic haemorrhage if rupture occurs.

Case and Imaging Findings :We report a case of a spontaneous heterotopic pregnancy diagnosed at 6 weeks of gestation on transvaginal ultrasound. Imaging demonstrated a viable intrauterine gestational sac along with a second gestational sac located in the right interstitial region of the uterus, surrounded by a **thin myometrial mantle** and demonstrating **the interstitial line sign**. The patient gave no history of assisted reproductive techniques.

Given the early gestational age and the absence of symptoms, a conservative approach with close ultrasound surveillance was adopted. On follow-up examination, after 10 days , the interstitial gestational sac showed features of early pregnancy failure with absence of embryonic development and progressive involution. The intrauterine pregnancy continued to develop normally.

Conclusion: **This case highlights the importance of careful evaluation of the adnexa and uterine cornua even when a normal intrauterine pregnancy is identified. Early recognition of heterotopic interstitial pregnancy allows individualized management and may avoid invasive intervention when spontaneous resolution occurs**

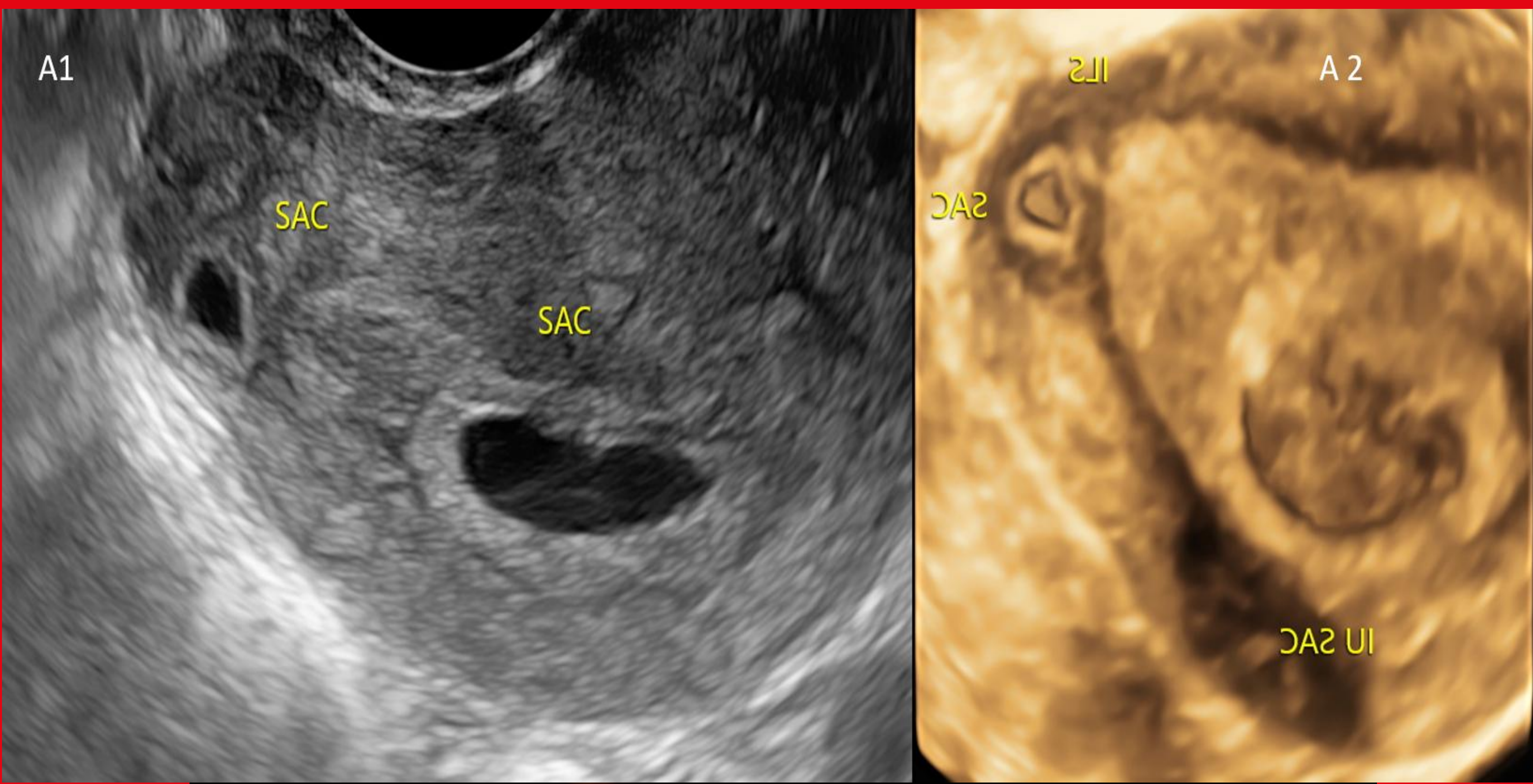


Fig 1: A1: Sac with YS outside endometrial Cavity A2: Interstitial Line sign

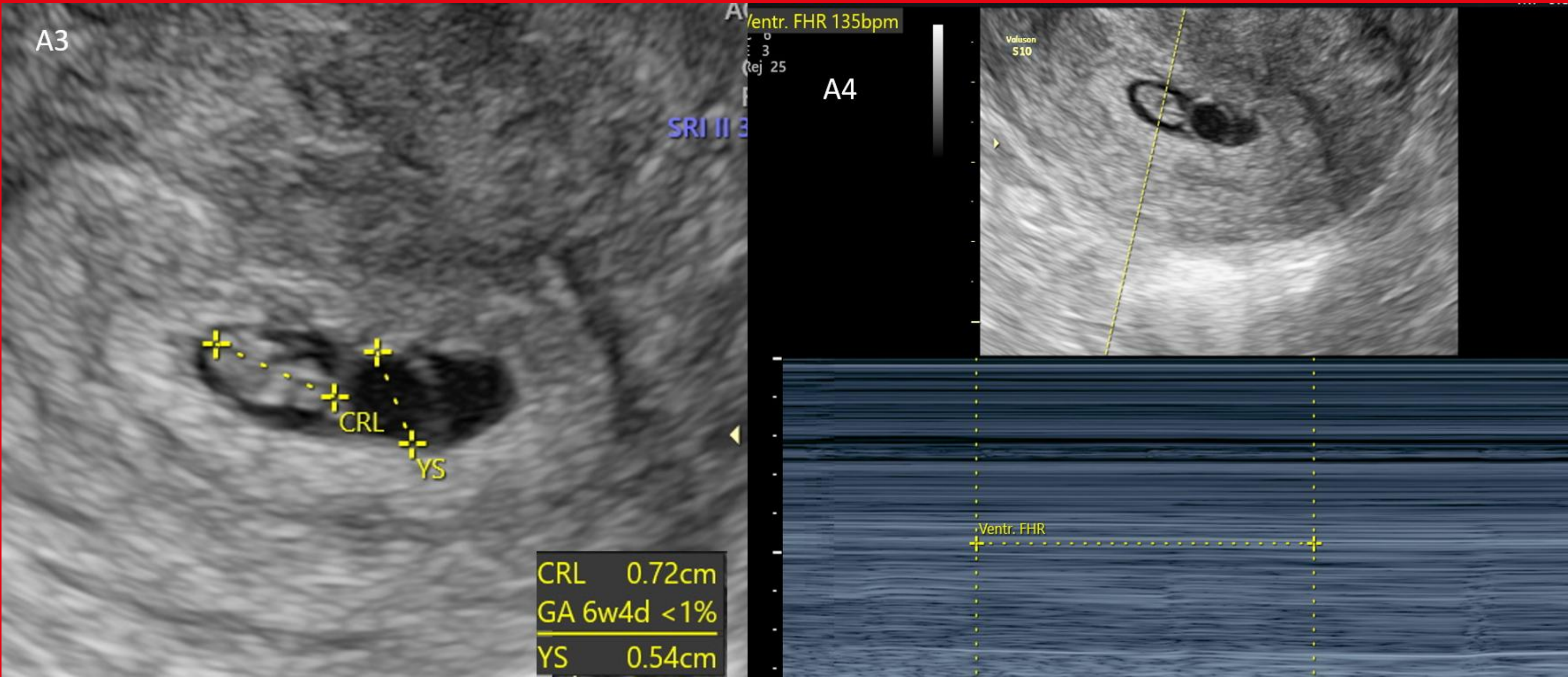


Fig 2: A3 and A4: Live embryo in IU cavity

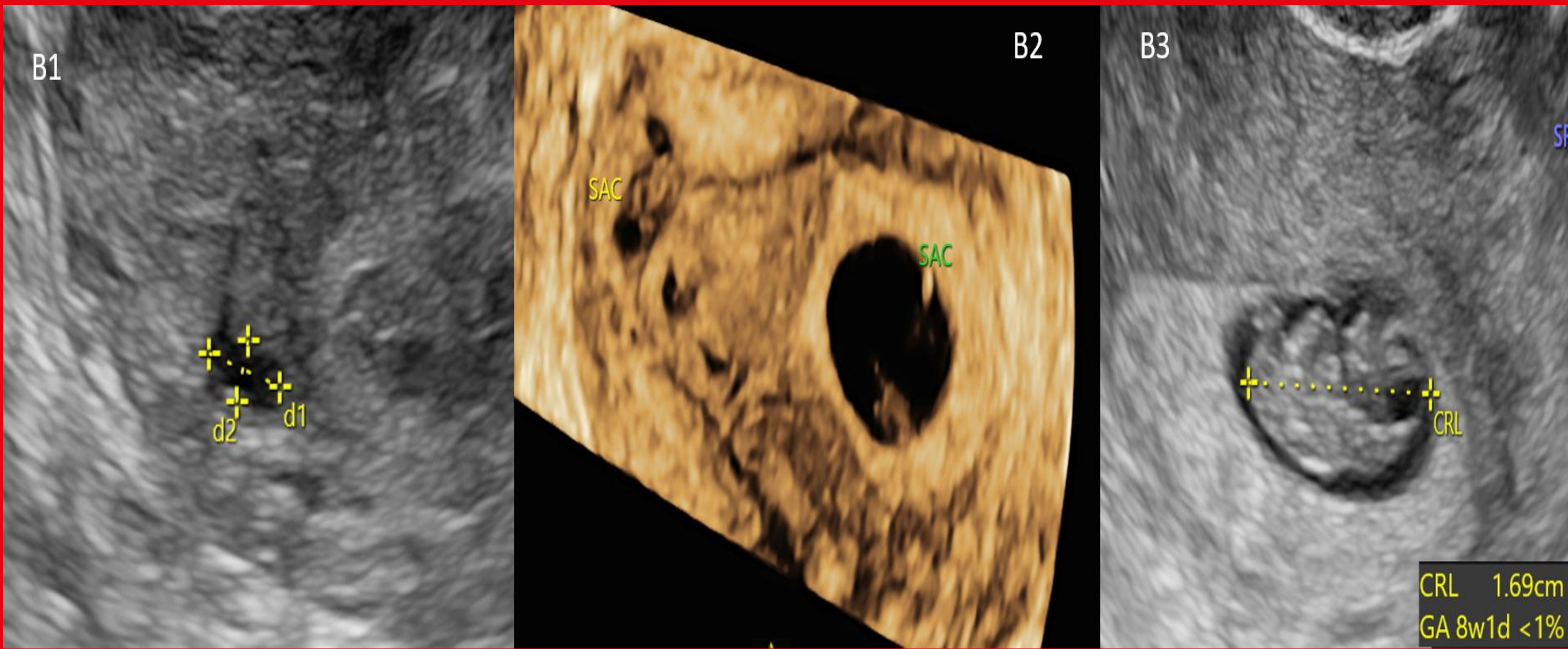


Fig 3: B1 : Interstitial sac crumpled B2: 3D collapsed sac B3: Growing Embryo in IU cavity