

[EP01.40.] Bleeding, endometrial and myometrial pathology

Mislocated intrauterine device: diagnosis and minimally invasive surgical management



Paweł Sadlecki ^{1,2}, Małgorzata Walentowicz-Sadlecka ^{1,2}

1. Faculty of Medicine, University of Science and Technology, Bydgoszcz, Poland

2. Department of Obstetrics, Gynecology and Gynecological Oncology, Regional Polyclinical Hospital, Grudziądz, Poland

Introduction

Intrauterine devices (IUDs) are widely used reversible contraceptives. When IUD displacement is suspected, accurate imaging is essential for precise localization and optimal surgical planning, particularly in asymptomatic patients.

Case Presentation: Diagnosis

41-year-old asymptomatic woman was referred after a routine examination revealed IUD displacement two years after insertion. Transvaginal ultrasound demonstrated a hyperechogenic IUD arm embedded in the upper right uterine wall, with partial protrusion beyond the uterine contour. Pelvic magnetic resonance imaging (MRI) confirmed intramyometrial localization of the IUD, with the short arm penetrating the uterine serosa.

Treatment

Laparoscopy allowed precise intraoperative identification of the displaced IUD arm, enabling complete extraction of the device.

The postoperative course was uneventful, and the patient was discharged on postoperative day one.

Conclusion

Combined transvaginal ultrasound and MRI provide complementary, high diagnostic accuracy in the assessment of ectopic or embedded IUDs.

Precise preoperative imaging facilitates safe and effective minimally invasive management, even in asymptomatic patients, and should be considered when uterine perforation or deep embedding is suspected.

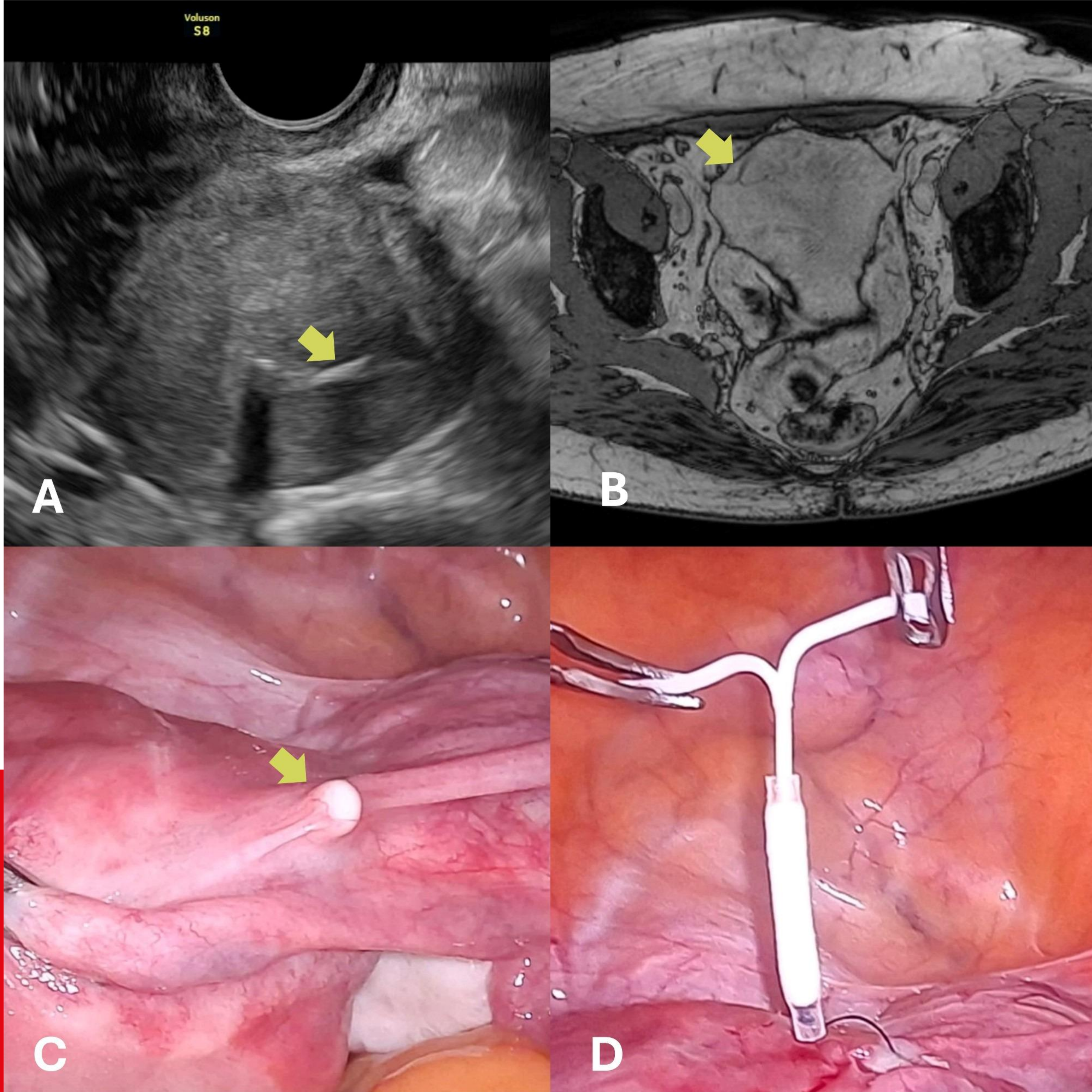


Figure 1. (A) US: transverse arm of the IUD (yellow arrow). (B) MRI: IUD embedded in the uterine myometrium (yellow arrow). (C) Laparoscopy: tip of the transverse arm protruding from the uterine wall (yellow arrow). (D) Laparoscopic removal of the IUD from the myometrium.



36TH ISUOG WORLD CONGRESS
ON ULTRASOUND IN OBSTETRICS & GYNECOLOGY
LONDON, UK 4-7 SEPTEMBER 2026

