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Intraoperative ultrasound for the implementation of endometriosis surgery by the assesment of the rectal wall and the parametrium: a case report

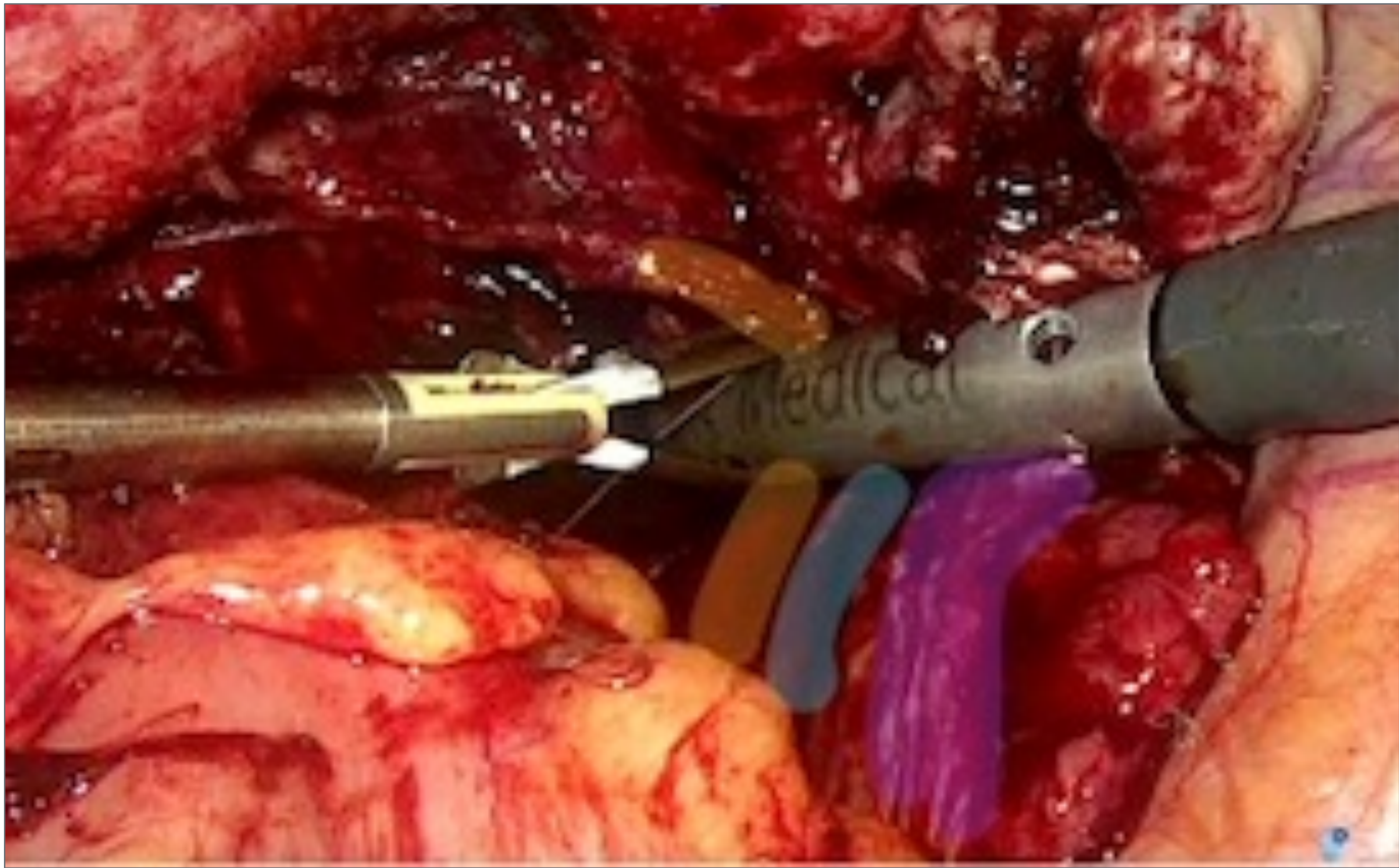
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Introduction

The diagnosis of the infiltration of the parametrium in patients with endometriosis is still challenging in the preoperative setting. Intraoperative ultrasound (IOUS) has been widely used in other surgical fields, but its application in deep infiltrating endometriosis (DIE), especially for the evaluation of parametrial involvement, has not yet been described.

Case Report

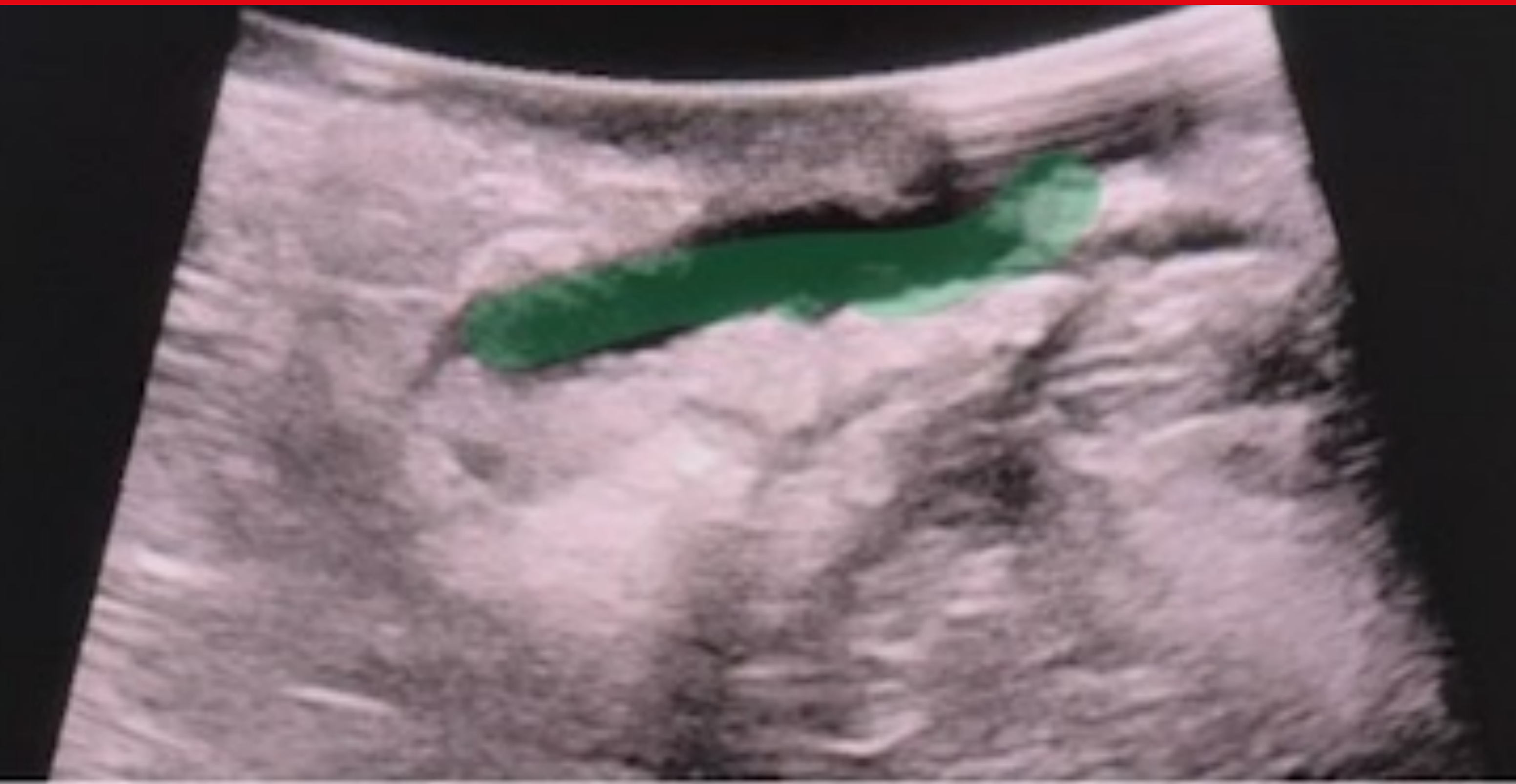
A 39-year-old woman with suspected DIE underwent preoperative TVUS that identified a periureteral endometriotic lesion in the right parametrium and a rectal endometriosis nodule. Laparoscopic surgery with complete excision of endometriosis was performed. **During the procedure, laparoscopic IOUS was used to evaluate the parametrium and bowel lesions, allowing precise identification of the ureter, internal iliac vessels, and endometriotic nodules, as well as assessment of bowel wall infiltration.**



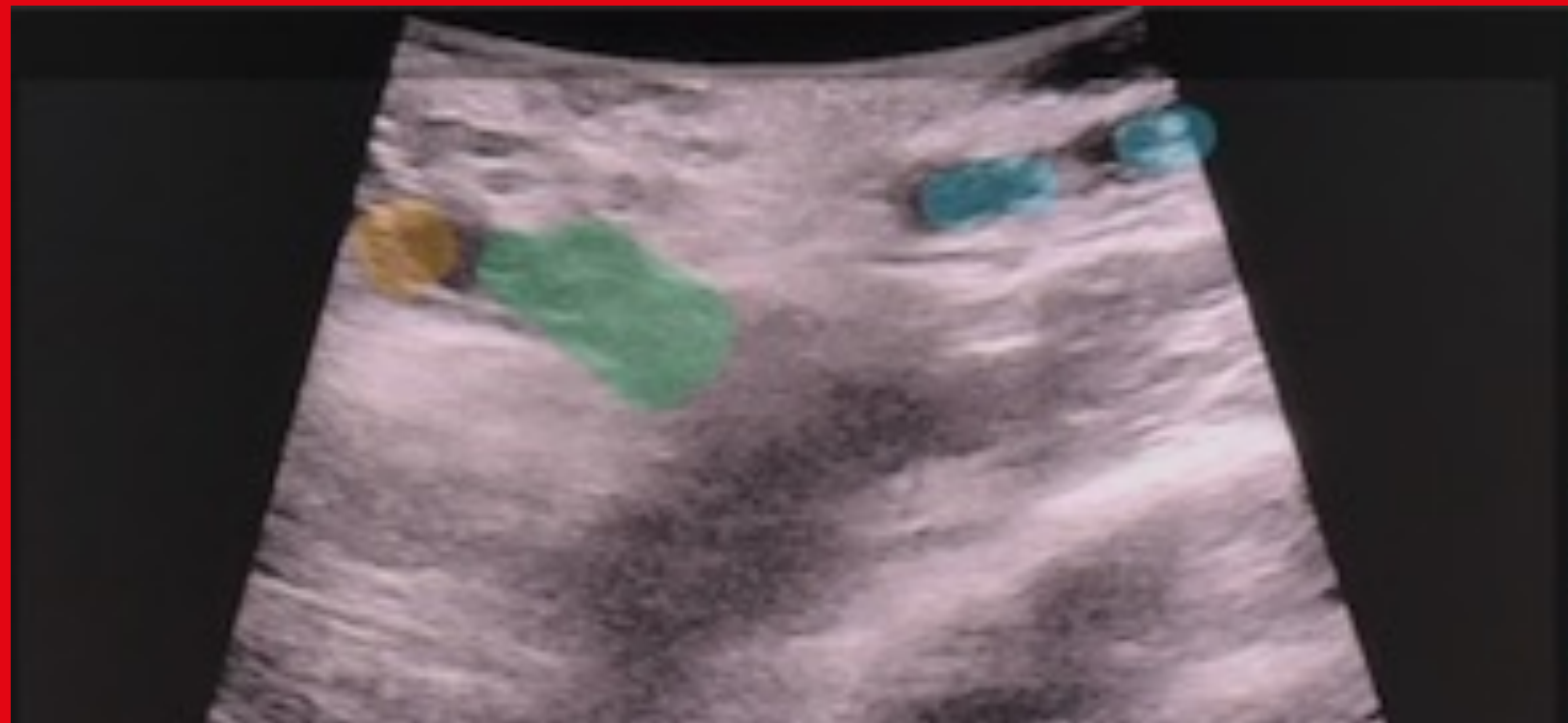
Laparoscopic vision: yellow: ureter, blue: internal iliac vessels, violet: right IP ligament.

Conclusion

IOUS appears to be a feasible tool for intraoperative evaluation of parametrial endometriosis, potentially improving surgical planning and anatomical assessment.



IOUS laparoscopic: endometriotic nodule of the anterior rectal wall (green).



IOUS laparoscopic: periureteral endometriotic lesion (green: endometriotic lesion; yellow: ureter; blue: internal iliac vessels).