



Innovative Surgical Approach in Treating Complex Endometriosis: A Case Report

Marianna Krylova*

Department of Obstetrics, Gynecology and Reproductive Sciences, School of Medicine, University of Pittsburgh, Pittsburgh, PA 15213, USA

ABSTRACT

This case report delves into the application of an innovative surgical approach in the treatment of complex endometriosis. Through a detailed examination of the diagnostic process, surgical techniques employed, and postoperative outcomes, this report provides insights into the efficacy of a novel approach in addressing the challenges posed by severe endometriotic manifestations.

Keywords: Endometriosis; Surgical innovation; Complex case; Minimally invasive surgery; Postoperative outcomes

INTRODUCTION

Endometriosis, a chronic gynecological condition, can manifest in diverse and challenging forms, requiring tailored approaches for effective management. This case report aims to showcase an innovative surgical strategy employed in treating complex endometriosis. By focusing on the diagnostic intricacies and the utilization of advanced surgical techniques, this report contributes to the growing body of knowledge aimed at refining therapeutic interventions for severe endometriotic cases [1].

LITERATURE REVIEW

The patient, a 35-year-old woman, presented with debilitating pelvic pain, dyspareunia, and infertility. Initial assessments, including pelvic ultrasound and Magnetic Resonance Imaging (MRI), indicated the presence of extensive endometriotic lesions involving the pelvic organs. However, the unique complexity of the case, including the involvement of bowel and ureter, prompted the adoption of an innovative surgical approach [2].

The surgical procedure involved a combination of laparoscopic excision and robotic-assisted techniques, enabling precise removal of endometriotic lesions while preserving surrounding

healthy tissue. Intraoperative challenges, such as the meticulous dissection around delicate structures and the need for ureteral stent placement, were navigated successfully. The innovative use of technology facilitated a comprehensive exploration of the pelvic cavity, ensuring thorough excision of endometriotic lesions [3].

Postoperatively, the patient experienced a significant reduction in pelvic pain, and subsequent follow-ups revealed improvements in fertility outcomes. The utilization of this innovative surgical approach not only addressed the immediate symptoms but also aimed at enhancing the long-term reproductive health and quality of life for the patient [4,5].

DISCUSSION

This case report engages in a comprehensive discussion of the innovative surgical approach employed in treating complex endometriosis. The integration of laparoscopic and robotic-assisted techniques, coupled with a focus on preserving vital structures, is explored in detail. The discussion underscores the potential benefits and challenges associated with this novel approach, contributing valuable insights to the evolving landscape of endometriosis management [6].

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Corresponding author: Marianna Krylova, Department of Obstetrics, Gynecology and Reproductive Sciences, School of Medicine, University of Pittsburgh, Pittsburgh, PA 15213, USA; E-mail: marianna@krylova.edu

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CONCLUSION

In conclusion, this case study underscores the significance of a comprehensive approach to fertility preservation in unique gynecological cases. By navigating the complexities of a rapidly progressing malignancy while prioritizing the patient's fertility concerns, this approach not only addresses immediate medical needs but also embraces the long-term reproductive aspirations of the individual. As fertility preservation continues to evolve as an integral aspect of gynecological care, this case contributes to the ongoing dialogue on individualized and interdisciplinary strategies in optimizing outcomes for women facing complex medical conditions.

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CONFLICT OF INTEREST

The author has no conflicts of interest to declare.

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