

Trocar Off The Line: Optimizing Access in Laparoscopic Hernia Surgery When Anatomy is Against US

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Totally extraperitoneal (TEP) laparoscopic inguinal hernioplasty is a minimally invasive technique with notable advantages. However, in patients with abdominal scarring or indwelling devices such as peritoneal dialysis catheters, anatomical alterations may complicate dissection and increase procedural risk. Aim: To assess the feasibility and safety of TEP technique modifications in the presence of a peritoneal dialysis catheter.	 Material & Methods Elective TEP inguinal hernioplasty was performed on a patient with a pre-existing peritoneal dialysis catheter. Preoperative planning emphasized: Strategic trocar placement. Avoidance of catheter manipulation or contamination. Preservation of device integrity. A safe dissection plane was maintained by modifying the standard trocar layout to respect anatomical alterations
 Results Trocar positioning successfully avoided contact with the catheter. No intraoperative or postoperative complications occurred. The dialysis catheter remained functional and uncontaminated. The procedure was completed without conversion or compromise in technique. 	 Conclusions TEP hemioplasty remains a feasible and safe option in patients with complex abdominal anatomy due to scarring or indwelling devices. Tailoring trocar positioning is essential for preserving catheter integrity and minimizing surgical risk. Operating in the preperitoneal space does not inherently increase infection risk when adequate spatial separation from the catheter is ensured.
Contact : jzabala@torrejonsalud.com	This approach is effective and reproducible for select patients requiring inguinal hemia repair with a coexisting peritoneal dialysis catheter.