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## Preoperative Progressive Pneumoperitoneum in Reconstruction of Eventrations and Inguinoscrotal Hernias with Loss of Domain in Bogotá

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**Introduction:** The preoperative pneumoperitoneum (PPP) is a safe technique for the management of complex incisional hernias and with associated loss of domain. In Colombia, there are no current data on peritoneal catheter placement techniques and PPP efficacy, surgical success rate, frequency of complications and recurrence.

**Methods:** Retrospective cohort with the objective of measuring the efficacy of PPP in patients taken to surgery for giant incisional hernias or inguinoscrotal hernias with loss of domain in Bogota.

**Results:** Cohort composed of 17 patients, 70% men (59 years average), predominating midline eventrations. The placement of the peritoneal catheter in 95% of the cases was by means of a percutaneous technique guided by tomography. Imaging showed a significant difference between the average volume of the initial abdominal cavity (7649.85cc) and after the PPP (10155.93cc) with a p 0,000, representing a gain of 2506cc (95% CI: 1657, 8cc - 3354, 2cc) and an increase of 32.7% with respect to the initial average volume. The rotation of anterior components with sandwich mesh was the most performed surgical technique (n:15) and there were postoperative complications in 58.8% of the patients. There is no clinical recurrence of the incisional hernia in the postoperative follow-up.

**Conclusion:** Currently, the PPP is an effective complementary technique for the surgical management of complex eventrations with clinical and radiological loss of domain, thus impacting the quality of life of the patient to achieve the final closure of the abdominal wall.

### Biography:

Dr. Beltrán-García Tatiana Carolina is an Epidemiologist and General Surgeon since 2019 at Rosario University in Colombia, responsible and disciplined, with the ability to apply medical knowledge in clinical practice to put them at the service of patients and the community showing a professional and ethical performance. Additionally he is proactive, perseverant and with a high interest in clinical research in the surgical area.