Modified Martius technique for complex vesicovaginal fistula repair

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The repair of perineal fistulas represents a challenge for surgeons in gynecologic oncology, in addition to the impact on the quality of life of the patient. We define complex fistulas, which are larger, recurrent, or associated with a malignant or post-irradiation condition. A Martius modified flap remains the simplest and most versatile interposition tissue for repairing these defects. The aim of this article is to show a gradual and illustrated approach to direct repair and the use of a Martius flap for a multiple complex vesicovaginal fistula.

A 37-year-old woman presented with a complex multiple vesicovaginal fistula diagnosed a month after laparoscopic hysterectomy for early-stage endometrial cancer. This rare situation was due to the excess radicality of hysterectomy including the vaginal cuff and, as a result of using a sealer with excessive energy for that maneuver. Due to the complexity and location of the defects, it was decided to use a surgical approach to correct it. As an innovation to the usual technique, we added ureteroscopy, which was definitive to rule out a ureteral injury.

Video 1 Ischiocavernosus m., ischiocavernosus muscle; Bulbospongiosus m., : bulbospongiosus muscle; external Pudendal A., external pudendal artery; obturator A., obturator artery; POD, post-operative day
the risk of interrupting vascularization, it is key to leave enough space for the flap, avoid its rotation, and carry out a suture without tension. Even those surgical oncologists with no experience in these sporadic practices and who wish to maximize success will find it to be an extremely useful, relatively simple tool with low morbidity and favorable esthetic results.4

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