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HARVESTING THE HEALTHY GRACILIS FLAP IN RECTOURETHRAL, RECTOVAGINAL, RECTOVESICAL FISTULA: TECHNICAL REFINEMENT

Introduction

Complex perineal fistula repair is difficult interventions and requires surgical experience. In this video we present using grasilis flap in rectourethral, rectovaginal and rectovesical fistula repair. RESULTS: Grasilis muscle was easily dissected by hand-assisted technique avoiding extended skin incision. After that, grasilis flap pulled through the small incision just below the perineum near the medial thigh. Neurovascular bundle of the msucle preserved and muscle transposed on the fistula tract. Interposed gracilis flap placed on 3-layer closed fistula tract. CONCLUSIONS: Wide dissection of the fistula tract, water-tight 2-3 seperate layer closure of the fistula and interposition of the muscle flap are crutial to repair of challenging rectal fistula. Preperation of vital grasilis flap can be harvested without complex devices, paying attention neurovascular supply and anatomical landmarks. Source of Funding: None

<u>Design</u>

METHODS: Between 2009-2015, we repaired rectovaginal, rectourethral and rectovesical fistula by gracilis flap at 2(Nijer, Niamey),3 and 1 patients, respectively. Presented fistula were resulted from extended radical prostatectomy due to high risk locally advanced prostate cancer. Surgical Technique: Under general anestesia, reverse perineal Y incision performed under lithotomy position to reach bulbar urethra. Bulbar urethra with spongious muscle released from central tendon. Guidance of the finger in the rectum facilitated blunt and sharp dissection of the fistula tract. External sphincter complex and levator ani muscle were protected by this approach. 12-14 f foley catheter was inserted into the rectum through the fistula, and fibrotic tissues were widely resected by the traction of catheter. Fistula tract was closed by 3-layers with 2/0 absorbable suture, seperately. Preperation of Gracilis flap: Neurovascular bundle of gracilis was inserted into the proximal 1/3 of the muscle makes it preferrable flap to perineum. Four cm vertical incision near to the medial condyl performed and deeply dissected. Sartorious muscle resemble gracilis and dissection must be careful to seperate their tendon from each other. Gracilis fascia opened and tendon is hanged. Skin incision was exented towards perineum to mobilize gracilis muscle, or a seperate 3 cm skin incision was performed at the mid part of femur.

Results

Grasilis muscle was easily dissected by hand-assisted technique avoiding extended skin incision. After that, grasilis flap pulled through the small incision just below the perineum near the medial thigh. Neurovascular bundle of the msucle preserved and muscle transposed on the fistula tract. Interposed gracilis flap placed on 3-layer closed fistula tract.

Conclusion

Wide dissection of the fistula tract, water-tight 2-3 seperate layer closure of the fistula and interposition of the muscle flap are crutial to repair of challenging rectal fistula. Preperation of vital grasilis flap can be harvested without complex devices, paying attention neurovascular supply and anatomical landmarks.

References

- 1. Endoscopic treatment of a rectovesical fistula following radical prostatectomy by over-the-scope clip (OTSC). Brodak M, Kosine J, Tachecí I, Pacovsky J. Wideochir Inne Tech Maloinwazyjne. 2015 Sep;10(3):486-90.
- 2. Intracavitary transposition of the gracilis muscle for the treatment of delayed perineal healing after rectal amputation. Sava P. J Chir (Paris). 1988 Feb;125(2):127-9.

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