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Anal fistulas at roof of ischiorectal fossa inside levator ani muscle (RIFIL): MRI's key role their management

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Description

Fistulas pathways in the anal and rectal region are tricky to delimit and define their extension using imaging (MRI) because of the multilayer and condense anatomy of this region. Recently, with the increased clarity that MRIs brought to this pathology, 5 fistula pathways has been diagnosed known as peri-levator high-5 anal fistulas: Supralevator, suprasphincteric, extrasphincteric, high intrarectal fistulas and high outersphincteric [2]. In the latter, a fistula at the roof of ischiorectal fossa inside the levator ani muscle (RIFIL), has been described. The fistulas do not cross the sphincter as they remain in the heart of the leavtor muscle and do not enter the ischiorectal fossa. A retrospective study analysing 419 operated fistula patients: 10% had RIFIL and the rest non-RIFIL fistuals. Main points of comparasing is that the RIFIL fistuals group were more recurrent, with multiple more complex and ambiguous tracts consequently the surgery failure rate was significantly higher in the RIFIL group (30.6%) than in the non-RIFIL fistula (7.2%) [1]. Clinically, due to their deep and elevated anatomical topography, they are almost impossible to diagnose on clinical examination. Using MRI or Transrectal ultrasound, we can effectively and accurately study their internal opening, primary tracts and secondary extensions. Therefore, MRI is considered mandatory to diagnose

these fistulas, their side branch in case of multiple recurrences as well as the efficacy post operatively. Transanal Opening of Intersphincteric Space (TROPIS) has an average successful rate with minimal impact on continence in RIFIL fistulas, because the surgical accessibility to the RIFIL is difficult. The ligation of the intersphincteric fistula tract LIFT and Fistula Repair Procedure (FPR) predicted to achieve a moderate level of success. Nevertheless, there haven't been any studies conducted on the use of LIFT or FPR procedures specifically for RIFIL fistulas, which have been recently described [2]. Care should be taken to always favour and proceed with sphincter-sparing approaches such as TROPIS or LIFT. This is the case of 45-year-old male patient with inflammatory Bowel Disease and had a Seton drain placed for a anal fistula. Despite the drain anal discharge stayed active. MRI showed a complex fistulous trajectory in the outer high outersphincteric space, an entry orifice at 6 o'clock with wide infected paths and an exit orifice at the level of the right inter gluteal fold. The patient underwent a LIFT procedure with a lavage of the abcesses with a good post-operative outcome. Overall, it is very important to avoid missing the diagnosis of RIFIL fistula s otherwise the recurrent rate would remain high. These have not been described previously and are perhaps confused with high transsphincteric infralevator fistulas in ischiorectal fossa [1,2].

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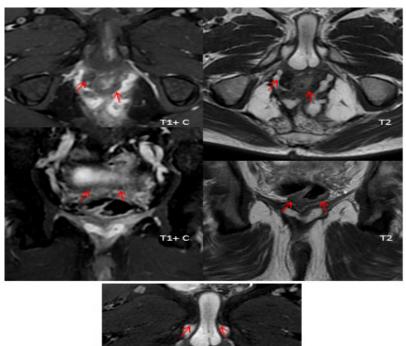




Figure 1: Complex fistulous (red arrows) trajectory under the levatorian presenting an entry orifice at 6 o'clock with wide paths with an abcess in hyper signal T2, T2FS, enhanced after injection, and an exit orifice at the level of the right inter gluteal fold. It presents the following secondary ramifications in the thickness of the levator anal muscle, which is the seat of a signal anomaly in hyper signal T2, T2FS, enhanced after injection:

Horseshoe intersphincter course

Posterior transphincter supplying an abscessed collection at 5 o clock Transphincterian at 7 o'clock

Tran sphincter at 9 o'clock descending to the level of the right ischio anal fossa.

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