



Anal Fistula Mapping: An Innovative way to record Anal sepsis

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Abstract:

Management of complex fistula in ano still one challenge for colorectal surgeons(1). To adopt the best surgical strategy, it is necessary to obtain precise radiologic information. But big dilemma is that there is no common language of communication between radiologist and surgeons. Most of available classifications helps for prognosticating disease. With good understanding of fistula anatomy with respect to anal canal before the surgery will help surgeon to plan appropriate surgical treatment, decreasing the incidence of recurrence(2). First time in 2017 Dr Arun Rojanasukul had proposed “Anal fistula map” as template for recording and reporting of fistula in ano. Objective of this study is to correlate radiological fistula mapping with intraoperative mappings based on findings.

A total of 37 patients with perianal sepsis visiting our outpatient clinic during the study period of 9 months from June 2019 to March 2020 were assessed prospectively, of which 4 patients underwent direct surgery without MRI were excluded. Of these 23 (76%) were male and 10 (23%) were female, with a median age of 39 years. 16 out of 33 were recurrent cases and 7 were known, diabetic patients. We have used SPSS (21 st version) to compute Kappa statistics for assessing concordance/discordance of both radiologist findings of MRI and surgeons’ intraoperative findings and have drawn its interpretation.



Results from Kappa statistics and its P-value show significant concordance. We are having a total of 8 findings with discordance out of 165(5X13) between two mapping systems. so the discordance percentage is 4.8%. It means there is more than 95% concordance between radiological and surgical findings. To conclude, pre-operative MRI based fistula mapping has high concordance with surgical findings. It may be implemented as a common communication language between radiologists and surgeons. Routine implementation of the mapping system shall provide a 3-D view of the simple fistula anatomy and shall provide better surgical planning.

Biography:

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