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A case report of root canal retreatment through endodontic surgery and MTA repair of iatrogenic perforation with an 18-month follow-up



Root perforations may occur following endodontic treatment, thus compromising the root integrity and treatment outcome.

A patient presented with root perforation following an earlier treatment of the upper left lateral incisor (tooth 22). Once symptomatic periapical periodontitis was diagnosed, a decision was made to retreat the root canal using mineral trioxide aggregate (MTA) and perform apicoectomy. The planned procedures were performed in three sessions and two follow-up visits, after 12 and 18 months, respectively, were arranged. At the last follow-up, bone neoformation was observed at the periapical area of the treated tooth.

The successful outcome in this case depended on appropriate diagnosis, root canal and surgical site disinfection, as well as sealing root canal perforation to prevent recontamination.