



Management of Pediatric Dental Patients Under General Anesthesia

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Introduction: General anesthesia is an essential therapeutic option for providing dental treatment in pediatric patients with systemic diseases, neurodevelopmental disorders, or limited cooperation. Careful preoperative assessment and multidisciplinary collaboration are crucial to ensuring safe and effective treatment outcomes.

Materials and methods: A 7-year-old girl with epilepsy, hyperhomocysteinemia, and an MTHFR gene mutation (contraindicating the use of nitrous oxide) was referred to our department for dental pain associated with carious lesions affecting teeth 3.6 and 4.6. Previous conservative treatments had been unsuccessful due to the patient's poor cooperation. Following a comprehensive medical evaluation, the patient underwent blood tests, cardiology, anesthesiology, and neurology consultations, as well as a panoramic radiograph (orthopantomogram, OPG).

Results: Under general anesthesia with nasotracheal intubation, the operative field was isolated using a rubber dam. Carious tissue was removed, followed by indirect pulp capping with calcium hydroxide and composite resin restoration. At the end of the procedure, a remineralizing gel was applied to enhance the protection of the dental tissues.

Conclusions: This clinical case highlights that even conservative dental procedures may require treatment in the operating room when the patient's clinical condition limits outpatient management, allowing comprehensive care to be completed in a single session.



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