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The Enigma of Permanent Immature Teeth: Unraveling Causes, Impacts, and Management

Mosa Altassan*

Department of Medicine, University of Trieste, Italy

INTRODUCTION

Permanent immature teeth, also known as immature permanent dentition or immature permanent dentition, refer to a condition where the permanent teeth fail to fully develop or mature properly. This condition can have various causes and consequences, impacting both oral health and overall well-being. Understanding the factors contributing to immature permanent teeth, their effects, and potential management strategies is crucial for dental professionals and patients alike. Several factors can contribute to the development of permanent immature teeth.

DESCRIPTION

Genetic predispositions can influence the development of teeth, including abnormalities in tooth structure or development that may lead to immature permanent teeth. Traumatic injuries to the teeth during childhood or adolescence can disrupt normal tooth development, leading to immature permanent teeth. Untreated dental infections, such as dental caries or abscesses, can affect the growth and development of permanent teeth, resulting in immature formation. Certain systemic conditions or medical treatments, such as nutritional deficiencies or chemotherapy, can interfere with tooth development, contributing to immature permanent teeth. The consequences of permanent immature teeth can vary depending on the severity of the condition and the affected teeth. Some common consequences include immature permanent teeth may appear smaller, misshapen, or discolored compared to fully developed teeth, impacting the individual's smile and self-confidence. Immature permanent teeth may be weaker and more prone to damage, leading to difficulties in biting, chewing, and speaking. Immature permanent teeth may be more susceptible to dental decay, infections, and other oral health issues, necessitating ongoing dental care and treatment [1-4]. The aesthetic and functional challenges associated with permanent immature teeth can have psychological effects, affecting the individual's social interactions and emotional well-being. Managing permanent immature teeth requires a multidisciplinary approach involving dental professionals, orthodontists, and sometimes, other healthcare providers. Treatment options may include in some cases, especially when the immature teeth are asymptomatic and not causing significant functional or aesthetic concerns, a conservative approach of monitoring may be adopted. Dental restorations such as fillings, crowns, or veneers may be recommended to improve the appearance and strength of immature permanent teeth, restoring their function and aesthetics. Orthodontic interventions, such as braces or aligners, may be necessary to correct misalignment or malocclusion issues associated with immature permanent teeth. In cases of severe tooth decay or infection, root canal therapy (endodontic treatment) may be performed to remove diseased tissue and preserve the immature permanent tooth. In rare cases of severe tooth development abnormalities or trauma, surgical interventions such as tooth extraction or dental implants may be considered [1-4].

CONCLUSION

Permanent immature teeth pose significant challenges to dental health and overall well-being. By understanding the causes, consequences, and management options for this condition, dental professionals can provide timely and appropriate care to affected individuals, improving their oral health and quality of life. Continued research and advancements in dental science are essential for further enhancing our understanding and management of permanent immature teeth. Permanent immature teeth epitomize a complex conundrum within the domain of dentistry, necessitating a nuanced understanding and tailored management approach. By unraveling the intricate interplay of causative factors, discerning the manifold impacts, and embracing a multidisciplinary treatment paradigm, dental professionals can navigate the labyrinth of permanent immature teeth adeptly, thereby ameliorating oral health outcomes and enhancing the quality of life for affected individuals. Surgical interventions like apexogenesis, apexification, or tooth transplantation may be contemplat-

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Corresponding author Mosa Altassan, Department of Medicine, University of Trieste, Italy, E-mail: altassan23@gmail.com

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ed in select cases of permanent immature teeth to promote continued root development or replace non-viable teeth.

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CONFLICT OF INTEREST

The author's declared that they have no conflict of interest.

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