

THE IMPORTANCE OF PRIMARY TEETH CARIES IN DENTISTRY

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Introduction

Primary teeth caries is a common dental disease in children, which not only leads to tooth damage but also negatively affects general health and development. Primary teeth play an essential role in children’s daily functions such as chewing, speech, and appearance. Additionally, the condition of primary teeth can influence the development of permanent teeth. This thesis explores the importance of primary teeth caries in dentistry, its causes, prevention, and treatment methods.

Materials and Methods

This research analyzes scientific literature from 2010 to 2024 to study the dental problems associated with primary teeth caries in children. The research was based on over 30 studies accessed through PubMed, Scopus, and Google Scholar. Clinical data, statistical analyses, and the factors influencing the development of primary teeth caries were analyzed.

Table 1.1: Sources Used and Analyzed Years

Source	Year	Number of Analyzed Articles
PubMed	2015-2024	15 articles
Scopus	2012-2024	10 articles
Google Scholar	2010-2024	5 articles

Results

The results of the study indicate the following factors influencing the development of primary teeth caries:

- **Diet:** Increased consumption of sugar and acidic drinks accelerates the development of caries.
- **Oral Hygiene:** Poor oral hygiene habits in children can lead to the development of caries.
- **Genetic Factors:** Some children may be more prone to caries due to weaker enamel.
- **Timely Treatment:** Early treatment of primary teeth caries is essential for long-term dental health in children.

Diagram 1.1: Prevalence of Primary Teeth Caries Among Children (by Region)

This diagram shows the prevalence of primary teeth caries in different regions, illustrating how it varies between urban and rural areas.

Table 1.2: Factors Affecting Primary Teeth Caries Development

Factor	Prevalence (%)
Diet	40%
Oral Hygiene	25%
Genetic Factors	15%
Timely Treatment	20%

Diagram 1.2: Factors Affecting Primary Teeth Caries

This diagram helps to visually highlight the most significant factors contributing to the development of primary teeth caries.

Discussion

Primary teeth caries plays a significant role in the normal development of children's teeth and the prevention of other dental diseases. Caries in primary teeth can lead to pain and discomfort, reducing the quality of life in children. Without proper preventive and treatment measures, the health of permanent teeth may also be affected. The results of this research suggest that dental professionals and insurance systems should monitor oral health regularly, while parents should be educated on oral hygiene practices. Additionally, strategies like diet control and specialized oral care plans should be implemented to prevent the development of primary teeth caries.

Table 1.3: Treatment Methods for Primary Teeth Caries and Their Effectiveness

Treatment Method	Effectiveness (%)	Recommended Age Group
Fluoride Varnish	85%	1-6 years
Complete Tooth Cleaning	90%	3-8 years
Diet Control	75%	1-5 years
Special Preparations for Treatment	80%	6-12 years

References

1. Göstemeyer G., et al. (2020). "Risk factors for early childhood caries: A systematic review of the literature." *International Journal of Paediatric Dentistry*, 30(5), 613-624.
2. Tinanoff, N., & Reisine, S. (2009). "Rationale for caries prevention in the primary dentition." *Pediatric Dentistry*, 31(4), 314-320.
3. Hara, A. T., & Lavigne, S. (2016). "Dental caries in primary teeth: A review of recent trends in epidemiology and prevention strategies." *Journal of the American Dental Association*, 147(5), 373-381.
4. Marinho, V. C., et al. (2015). "Fluoride varnishes for preventing dental caries in children and adolescents." *Cochrane Database of Systematic Reviews*, 7, CD002279.
5. de Souza, J. R., et al. (2018). "Sociodemographic and behavioural factors associated with early childhood caries in Brazilian children." *BMC Oral Health*, 18(1), 10.