Dental plaque: Understanding the sticky menace in your mouth.

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Introduction

Dental plaque is a common oral health issue that affects people of all ages. It is a sticky, colourless biofilm that forms on the surfaces of teeth and gums. Despite its seemingly harmless appearance, dental plaque can lead to various oral health problems if not effectively managed. This article aims to shed light on dental plaque, its causes, effects, and preventive measures [1].

Dental plaque is a community of microorganisms that adhere to the teeth and gums. It mainly consists of bacteria, but it also contains other substances such as saliva, food particles, and bacterial by-products. When you consume carbohydrates, these bacteria use them as a food source and produce acids that can erode tooth enamel, leading to tooth decay and cavities [2].

The primary cause of dental plaque is inadequate oral hygiene. When you neglect proper brushing and flossing, plaque can accumulate on tooth surfaces, especially in hard-to-reach areas. The bacteria in plaque thrive on sugars and starches found in food, which further contribute to its growth. Additionally, certain factors like dry mouth, smoking, and a high-sugar diet can increase plaque formation [3].

If left unchecked, dental plaque can have detrimental effects on your oral health, including: Tooth Decay: The acids produced by plaque bacteria can attack tooth enamel, leading to cavities and dental caries. Gum Disease: Plaque accumulation at the gum line can irritate and inflame the gum tissue, causing gingivitis (mild gum disease) and, if untreated, progressing to periodontitis. Bad Breath: The bacteria in plaque release foulsmelling gases as they break down food particles, resulting in persistent bad breath. Tartar Formation: If plaque remains on the teeth for an extended period, it can harden and turn into tartar (calculus), a mineralized deposit that can only be removed by a dental professional [4].

Prevention is the key to combating dental plaque. Brush your teeth at least twice a day using fluoride toothpaste and

a soft-bristle toothbrush. Ensure you clean all tooth surfaces, including the gum line. Regularly floss between your teeth to remove plaque from areas where a toothbrush cannot reach effectively. Use an antimicrobial mouthwash to reduce plaquecausing bacteria and fresh your breath. Limit your intake of sugary and starchy foods, as they fuel plaque formation. Instead, opt for a balanced diet rich in fruits, vegetables, and lean proteins. Visit your dentist every six months for professional cleanings and comprehensive oral examinations to detect and address any plaque-related issues at an early stage.

Dental plaque is a persistent threat to your oral health, but with proper oral hygiene and regular dental care, it can be effectively managed. By adopting good oral hygiene practices and making healthy lifestyle choices, you can keep dental plaque under control, maintain a healthy smile, and preserve your overall oral well-being. Remember, prevention is the key to a plaque-free mouth [5].

References

- 1. Batty I. *Actinomyces odontolyticus*, a new species of actinomycete regularly isolated from deep carious dentine. J Pathol Bacteriol. 1958; 75(2):455-9.
- 2. Bellack S, Jordan HV. Serological identification of rodent strains of Actinomyces viscosus and their relationship to Actinomyces of human origin. Arch Oral Biol. 1972; 17(1):175-IN19.
- Bladen H, Hageage G, Pollock F, et al. Plaque formation in vitro on wires by gram-negative oral microorganisms (Veillonella). Arch Oral Biol. 1970; 15(2):127-IN13.
- 4. Brown JM, Georg LK, Waters LC. Laboratory identification of Rothia dentocariosa and its occurrence in human clinical materials. Appl Microbiol. 1969; 17(1):150-6.
- 5. Barbieri R, Mekni R, Levasseur A, et al. Paleoproteomics of the dental pulp: The plague paradigm. Plos. 2017;12(7):e0180552.

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