

calculus under gums

calculus under gums refers to the hardened deposits that form on teeth below the gum line, often resulting from plaque buildup that has not been adequately removed through oral hygiene practices. This condition, also known as subgingival calculus, can lead to various dental issues, including gum disease, tooth decay, and even tooth loss if not treated properly. Understanding the formation, effects, and treatment of calculus under gums is crucial for maintaining oral health. This article will explore the types of calculus, the causes of its formation, the impact on dental health, methods for prevention, and effective treatment options.

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Understanding Calculus Under Gums

Calculus under gums is a dental condition characterized by the accumulation of mineralized plaque on teeth and beneath the gum line. When plaque, a soft and sticky film composed of bacteria, is not removed through regular brushing and flossing, it can harden into calculus, also known as tartar. This hardened deposit can form both above and below the gum line, leading to a range of oral health issues.

The presence of calculus under gums creates an ideal environment for bacteria to thrive, contributing to inflammation and infection of the gum tissue. It is essential to recognize that calculus cannot be removed by brushing alone, which is why professional dental cleanings are necessary for effective removal.

Types of Calculus

There are primarily two types of dental calculus: supragingival and subgingival. Each type is distinguished by its location and characteristics.

Supragingival Calculus

This type of calculus forms above the gum line, typically on the surfaces of teeth that are frequently exposed to saliva. It appears as a yellow or white buildup and is often easier to detect visually. Supragingival calculus can be removed through regular dental cleanings and effective oral hygiene practices.

Subgingival Calculus

Subgingival calculus forms below the gum line and is often dark in color due to the presence of bacteria and other debris. It is less visible and can only be detected through dental examinations, including X-rays. This type of calculus is more concerning, as it can lead to periodontal disease and other serious complications.

Causes of Calculus Formation

The formation of calculus under gums is primarily caused by inadequate oral hygiene practices. When plaque is not removed daily through brushing and flossing, it can mineralize within 24 to 72 hours, turning into calculus. Several factors contribute to the accumulation of plaque and subsequent calculus formation:

- **Poor Oral Hygiene:** Inconsistent brushing and flossing allows plaque to harden into calculus.
- **Diet:** A high-sugar and high-carbohydrate diet can increase plaque formation.
- **Saliva Composition:** Some individuals have saliva that promotes faster calculus formation due to its mineral content.
- **Smoking:** Tobacco use can contribute to increased plaque and calculus buildup.
- **Medical Conditions:** Certain health issues, such as diabetes, can affect oral health and calculus formation.

Impact on Dental Health

The presence of calculus under gums can lead to significant dental health issues if not addressed. The bacteria associated with calculus can cause inflammation of the gums, leading to gingivitis, the earliest stage of gum disease. If left untreated, gingivitis can progress to periodontitis, a more severe condition that can result in tooth loss and other systemic health problems.

Some of the key impacts of calculus under gums include:

- **Gum Disease:** Inflammation and infection of the gums can lead to chronic periodontitis.
- **Bad Breath:** The accumulation of bacteria can result in persistent halitosis.

- **Tooth Decay:** The presence of calculus can create pockets that trap food particles and bacteria, leading to cavities.
- **Tooth Loss:** Advanced gum disease can result in the loss of teeth due to bone deterioration.

Prevention of Calculus Under Gums

Preventing calculus under gums is primarily about maintaining excellent oral hygiene and regular dental visits. Here are effective strategies for prevention:

- **Regular Brushing:** Brush teeth at least twice a day using fluoride toothpaste.
- **Daily Flossing:** Floss daily to remove plaque and food particles from between teeth.
- **Routine Dental Visits:** Schedule professional cleanings every six months to remove plaque and calculus.
- **Healthy Diet:** Limit sugar intake and include foods that promote oral health, such as fruits and vegetables.
- **Stay Hydrated:** Drink plenty of water to help wash away food particles and bacteria.

Treatment Options

Once calculus under gums has formed, professional intervention is required for removal. Treatment options include:

Professional Dental Cleaning

Dental cleanings performed by a dentist or dental hygienist involve scaling and polishing teeth to remove calculus and plaque both above and below the gum line. This treatment is essential for restoring gum health and preventing further complications.

Root Planing

In cases of advanced gum disease, root planing may be necessary. This procedure involves smoothing the roots of the teeth to eliminate bacterial toxins and promote healing of the gums.

Antibiotic Therapy

For patients with significant gum disease, antibiotics may be prescribed to help control bacterial growth and inflammation. This therapy can be administered topically or orally, depending on the

severity of the condition.

Conclusion

Understanding calculus under gums is crucial for effective oral health management. By recognizing the types of calculus, its causes, the impact on dental health, and effective prevention and treatment strategies, individuals can take proactive steps to maintain their oral hygiene. Regular dental check-ups and a commitment to proper home care can significantly reduce the risk of calculus formation and its associated complications.

Q: What is the difference between calculus and plaque?

A: Calculus is hardened plaque that forms on teeth when plaque is not removed promptly through brushing and flossing. Plaque is a soft, sticky film of bacteria that forms on teeth and can be easily removed, while calculus requires professional dental cleaning for removal.

Q: How can I tell if I have calculus under my gums?

A: While calculus is often not visible without a dental examination, signs of its presence may include swollen or bleeding gums, persistent bad breath, and tooth sensitivity. A dentist can confirm its presence through a clinical examination.

Q: Can calculus under gums be removed at home?

A: No, calculus cannot be removed at home. It requires professional dental cleaning, as it is a hardened deposit that cannot be effectively cleaned with regular brushing or flossing.

Q: How often should I visit the dentist to prevent calculus buildup?

A: It is generally recommended to visit the dentist for a professional cleaning every six months. However, individuals with a history of gum disease may need to visit more frequently, as advised by their dentist.

Q: Are there specific toothbrushes or toothpaste that can help prevent calculus?

A: Using a soft-bristled toothbrush and fluoride toothpaste can help prevent plaque buildup. Some toothpaste specifically designed for tartar control can also be beneficial in reducing the formation of calculus.

Q: Can diet affect calculus formation?

A: Yes, diet plays a significant role in calculus formation. Diets high in sugar and carbohydrates can contribute to increased plaque formation, leading to a higher risk of calculus buildup.

Q: What is the role of saliva in calculus formation?

A: Saliva helps to wash away food particles and bacteria. However, the composition of an individual's saliva can influence calculus formation; some people may have saliva that is more conducive to the mineralization of plaque into calculus.

Q: Is calculus under gums linked to other health problems?

A: Yes, there is a growing body of evidence linking periodontal disease, which is often caused by calculus, to other health issues, including heart disease, diabetes, and respiratory problems. Maintaining oral health is crucial for overall health.

Q: Can I prevent calculus if I have braces?

A: Yes, while braces can make oral hygiene more challenging, it is still possible to prevent calculus buildup. Regular brushing, flossing with orthodontic aids, and frequent dental visits are essential for maintaining oral health while wearing braces.

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