Periodontal disease is classified into two stages according to the severity of the disease:

- **Gingivitis** - the early form of periodontal disease
- **Untreated Gingivitis** - advances to the more severe form periodontitis (See table on the next page for a list of warning signs that may indicate periodontal disease.)

Plaque is the sticky film made up of bacteria that builds up daily on the teeth, especially between the teeth and along the gum line. Throughout time, the plaque can spread and grow below the gum line. If not removed, the plaque hardens to form tartar.

The bacteria in plaque/tartar irritate the gums and causes inflammation. The gums separate from the teeth, forming spaces between the teeth and gums (pockets) that become infected. As the disease progresses, the pockets deepen and more gum tissue and bone are destroyed. Teeth can become loose and may have to be removed.
Not only is periodontitis a major cause of tooth loss, but it is also linked to other diseases affecting overall health. There have been reports in the literature of increased risk of heart disease and stroke, diabetes, respiratory disease and even premature babies with the presence of periodontal disease (visit the American Academy of Periodontology for more information - www.perio.org).

How Does Obesity Affect Periodontal Disease?

Overweight and obese adults have long been considered to be at high risk for many chronic inflammatory disease and conditions such as cardiovascular disease, diabetes and arthritis. Likewise, obesity appears to be an independent risk factor for the development of periodontal disease even after controlling other risk factors such as smoking, age and other medical problems. A recent study (Khader YS, et al. J Clin Periodontol 2009;36(1):18-24) showed that overweight individuals had double the incidence of periodontitis while obese individuals had triple the incidence.

Fat cells were once thought of as having limited function energy storage. It is now known that fat cells produce many chemical signals and hormones. Many of these substances are thought to increase overall inflammation in the body. This may lead to decreased immune status, which increases susceptibility to periodontal disease. The inflammation may also decrease blood flow to the gums and cause disease progression.

It is thought that this association, in part, could also be due to lifestyle characteristics that make individuals more prone to both obesity and periodontal disease.

Treatment of Periodontal Disease

The goal of treatment for periodontal disease is to stop the progression of disease, improve the health of surrounding gums, and if indicated, to restore the supporting structures (bone, gum tissue and ligaments). Thorough cleaning, removing tartar and plaque and scraping the deep pockets free of infected tissue are the basic steps.

Surgery is sometimes needed for repairing deep pockets or reshaping the bone and/or surrounding tooth structures. Oral or topical antibiotics are sometimes needed. Maintenance of proper oral hygiene is essential for long-term success.

Prevention of Periodontal Disease

Correct tooth brushing, mouth cleansing and flossing are the best defenses against periodontal disease. The American Dental Association recommends brushing teeth twice daily, in the morning and before bedtime, using fluoride toothpaste and a soft bristled toothbrush. It is important to clean all sides of the teeth and also brush the tongue. Replacing the toothbrush every one to three months is recommended. Flossing daily is important to remove bacteria and particles of food stuck between teeth.

Quitting smoking and chewing tobacco is one of the best ways to decrease risk of developing periodontal disease. Tobacco users are six times more likely to develop gum disease.

Diet is very important for overall health, including dental health. Eating a low-fat, reduced sodium balanced diet of whole grains, vegetables and fruits is recommended. Limiting the time sugar is in contact with the teeth is advised. Avoiding sugary beverages (sodas, fruit juices, sweetened tea) and candies (especially ones that stick to the teeth like taffy) is helpful. Eating sugary foods in between meals and before bed is also discouraged. Regular dental visits are recommended for teeth cleaning and inspection.

Summary

Both obesity and periodontal disease significantly impact an individual’s overall health. Periodontal disease (early gingivitis to advanced periodontitis) affects up to 50 percent of the U.S. adult population (age 30-70) and 90 percent of adults older than 70 years old.

Understanding the relationship between obesity and the risk factors that lead to periodontal disease is very important. With the increasing rate of child and adolescent obesity, the prevalence of periodontal disease will follow. Keys to prevention of periodontal disease are through proper oral hygiene, a balanced diet and routine dental visits.

About the Author:
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The Obesity Action Coalition (OAC) is a National non-profit organization dedicated to giving a voice to individuals affected by obesity and helping them along their journey toward better health. Our core focuses are to elevate the conversation of weight and its impact on health, improve access to obesity care, provide science-based education on obesity and its treatments, and fight to eliminate weight bias and discrimination.

The OAC knows that the journey with weight can be challenging but we also know that great things happen when we learn, connect and engage. That is why the OAC Community exists. Our Community is designed to provide quality education, ongoing support programs, an opportunity to connect, and a place to take action on important issues.

Through the OAC Community, you can get access to:

- Weight & Health Education
- Community Blogs
- Community Discussion Forum
- Ongoing Support
- Meaningful Connections

AND MUCH MORE

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