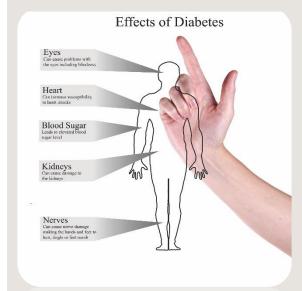
## The connection between Periodontitis and

# **DIABETES**

Emerging evidence supports an increased risk for diabetes onset in patients with severe periodontitis.

This may be due to elevated systemic inflammation (acute-phase and oxidative stress biomarkers) resulting from the entry of periodontal organisms and their virulence factors into the circulation.



There is a direct and dosedependent relationship between periodontitis severity and diabetes complications.

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Are you possibly at

RISK?

- Do you experience bleeding when brushing?
- Have your noticed receding gums with increased sensitivity?
- Are you aware of a bad taste and odor coming from your mouth?
- Are you a smoker?
- Do you have a family history of heart disease or diabetes?



If you have answered **YES** to any of these questions, then you may have periodontal disease and be at risk for developing systemic health related complications.

Seek advice from your dentist or periodontist.

PERIODONTAL HEALTH is a key component of ORAL and OVERALL HEALTH.

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Do you have

# **BLEEDING GUMS?**



As many as 50 % of adults have periodontal disease.

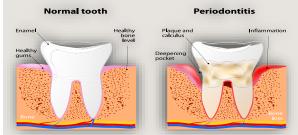
PERIODONTITIS LEADS
TO HEART DISEASE
AND DIABETES



#### What is

### **PERIODONTITIS?**

Periodontitis is a inflammatory condition which permanently destroys gum, connective tissue and bone that supports teeth.



#### Signs and symptoms include:

bleeding gums swollen gumsrecession bad breath bad tastemobile teeth

#### What causes Periodontitis?

It is primarily caused by plaque or bacteria but genetic predisposition and systemic factors such as diabetes as well as smoking may also have an effect. The capability of the body's immune system to fight off the bacterial infection are important and immune system fluctuation, may mark flair up of the disease.



## Does Periodontitis affect my

#### **GENERAL HEALTH?**

In periodontitis the bacteria on the tooth root and gum causes an immune inflammatory response resulting in swollen damaged gums. With brushing and eating the plaque enters the bloodstream and travel to distant sites throughout the body affecting the health of the internal organs.



Several associations with periodontal disease and other conditions has been researched:





### The impact of Periodontitis on your

#### **HEART**

Certain bacteria causing periodontitis are structurally equipped to attach and penetrate the blood vessel walls. Within the blood vessel wall, the bacteria can multiply, to elicit an inflammatory immune response and causes blood vessel cell death.

The result is hardening and narrowing of the blood vessel walls, called atherosclerosis.



- Atherosclerosis leads to heart attacks and strokes.
- It accounts for 29% of deaths worldwide.
- 2<sup>nd</sup> leading cause of death after infectious diseases and parasitic disease.

