

People with periodontitis are likely to develop diabetes mellitus – and vice versa

Diabetes mellitus

Diabetes mellitus is defined by **hyperglycaemia** and has two major forms.

Type I diabetes mellitus results from a lack of insulin because of an autoimmune reaction in the pancreas, whereas type 2 diabetes mellitus occurs as a consequence of insulin resistance associated

with chronically high blood-sugar levels.

Patients with diabetes mellitus

show a high prevalence

of periodontitis.



Periodontitis

Periodontitis is a common chronic inflammatory disease in humans, and it is defined by the damage of tooth-supporting structures caused by inflammation eventually leading to tooth loss.

Periodontitis is initiated by the **pathogenic dental-plaque biofilm** above and below the gum margin.

Patients with periodontitis are more likely to develop type 2 diabetes mellitus.

Periodontitis and diabetes mellitus are both widespread conditions among the world's population

Diabetes mellitus

Approx. 415 million people

Prevalence: constantly **rising**





Periodontitis

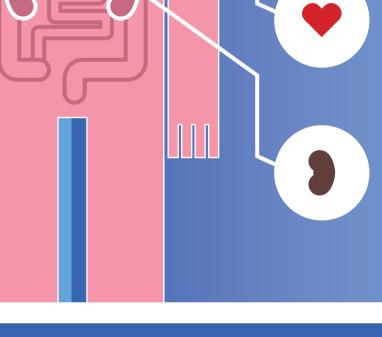
Western countries, more than 50% of the population



Prevalence:
750 million people
around the world with
severe forms

Periodontitis and diabetes mellitus, a two-way relationship What happens when you have periodontitis and diabetes **Complications** of diabetes at the same time Stroke Diabetes mellitus increases Higher rate of cerebrovascular prevalence, progression, and severity of periodontitis Retinopathy Increased risk for larger retinal **O** venular diameter and general diabetes-associated Increased **Diabetes** Periodontitis risk mellitus

Periodontitis
influences blood-sugar control
in diabetes mellitus





Kidney faliure and macroalbuminuria
Increased all-cause mortality

Periodontitis & diabetes mellitus general facts



There is a **bidirectional (two-way)**

whose prevalence increases with age.

chronic non-communicable diseases,

Diabetes and periodontitis are

relationship between periodontitis and diabetes.





causes **tooth loss**.

breakdown.

If untreated, periodontitis



clinically controlled. With regular high-quality supportive treatment, clinical results can be maintained.

People with sub-optimally controlled diabetes

(both type 1 and 2) suffer from increased

periodontal inflammation/destruction/

Periodontitis **is easily diagnosed** and



or developing type 2 diabetes.

have an elevated risk of pre-diabetes

People with periodontitis



complications (affecting eyes and kidneys) and even death than people with diabetes alone.

Periodontal treatment in people with diabetes

results in a significant reduction in glycated

People with both diabetes and periodontitis have

a greater likelihood of more severe medical



haemoglobin (HbA1c) levels three months after periodontal therapy, with emerging evidence available also for six months.

co-management (dentists and physicians)

of both diabetes and periodontitis is of utmost

Early diagnosis, prevention and

people with diabetes.



importance.

Successful periodontal treatment has a clinically significant effect on general health

and should have a place in the treatment of

Take care of **your gums**, control **diabetes**.





control your diabetes









European Federation of Periodontology







The EFP thanks Sunstar for its support

and its unrestricted grant.

perioanddiabetes.efp.org