

CROSSBITE

- Premature tooth wear and risk of chipped teeth
- Abfraction small notch in tooth at the gumline
- · Periodontal disease, tooth, and bone loss





EDGE-TO-EDGE BITE

- Risk of teeth chipping and breaking
- Jaw joint pain
- · Shortened or worn down front teeth



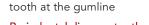
OPEN BITE

- Abfraction small notch in tooth at gumline
- Gum recession, loose teeth and bone loss
- · Excessive, premature wear on back teeth

A Potential Health Risk

When left untreated, malocclusion can lead to periodontal disease and premature wear of teeth that can worsen over time and even result in tooth loss. Periodontal disease may also increase the risk for atherosclerotic cardiovascular disease (hardening of the arteries).















- ¹ Brunelle, et. al. in Journal of Dental Research (2/96)
- ²Chun-Hsi Chung, DMD, MS/Robert L. Vanarsdall, DDS/Elisabetta Ada Cavalcanti, DMD/Jill S. Baldinger, DMD/Chern-Hsiung Lai, DMD, PhD; International Journal of Adult Orthodontics and Orthognathic Surgery, 2000
- ³ Kirsten Staufer, Helga Landmesser; Journal of Orofacial Orthopedics, 2004
- ⁴Ong et al., 1998 Boyd and Baumrind, 1992, Zachrisson and Zachrisson, 1972
- ⁵ Willem Nesse, Pieter U. Dijkstra, Frank Abbas, Fred K.L. Spijkervet, Astrid Stijger, Jan A.H. Tromp, Johan L. van Dijk, Arjan Vissink Journal of Periodontology 28 June 2010: 1-10

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STRAIGHT TALK ABOUT CROOKED TEETH

How to Reduce Your Risk of Periodontal Disease



Why are crooked teeth a problem?

Teeth that are not aligned properly in your mouth create what dentists call "malocclusion." Left untreated, malocclusion can lead to periodontal disease and create abnormal amounts of stress on teeth and jaws, which leads to premature wear.

What type of malocclusion do you have?

Here are some potential issues:



CROWDING

- Buildup of plaque and tartar
- Harbors harmful periodontal bacteria
- · Periodontal disease, tooth, and bone loss



- Food lodges between teeth
- Risk of sore, tender gums
- Risk of periodontal disease

DEEP BITE

- Over-erupted lower front teeth can damage the palate
- Premature wear and chipping of the lower front teeth

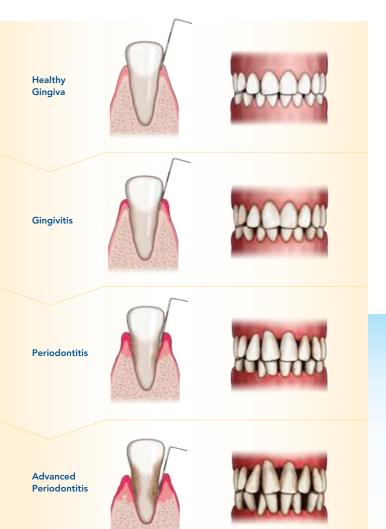


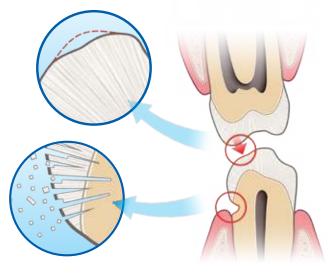
Malocclusion and Periodontal Disease

Malocclusion affects 74% of American adults. If you have malocclusion, it may affect your periodontal health, because it is difficult to remove plaque when teeth are not aligned. Periodontal disease can begin as gum redness or bleeding while brushing your teeth or using dental floss, and you may notice halitosis, or bad breath. If not treated, gum inflammation can become worse, leading to soft tissue damage, receding gums, the formation of pockets between teeth and gums, bone loss, and eventually tooth loss.

THE PROGRESSION OF PERIODONTAL DISEASE

When teeth are crowded, plaque with harmful bacteria can attach to the tooth surface down to the bottom of the pocket.^{2,3} Plaque can be difficult to remove from crowded areas because it is difficult to brush and floss here. Bacteria can cause gum tissue surrounding the tooth to degrade, and if not treated, result in bone loss.





WEAR AND TRAUMA

Poorly aligned teeth can also create unnatural stress and pressure on teeth and jaws. Teeth that are subject to excessive pressure can develop chipping and notches at the gum line called abfractions. Premature wear can lead to poor root support, loose teeth and eventually, tooth loss.

MALOCCLUSION: A RISK TO OVERALL HEALTH Severe periodontal infection, if untreated, may increase the risk for atherosclerosis-induced conditions such as coronary heart disease and stroke, complications of diabetes, adverse pregnancy outcomes, and respiratory diseases.⁵ SYSTEMIC PROBLEMS Bacteria forms a film underneath the gums, particularly where teeth are misaligned. Gum pockets form, 0 further trapping bacteria and debris. · 2 Bacteria inflames the gum tissues and kill gum tissue cells and can invade connective tissue and 4 The combination of bacteria, blood vessels. toxins, white blood cells, and acute phase proteins damages the cells that line your coronary arteries, resulting in plaque and leading to hardening 3 Your immune system creates white of the arteries. blood cells and proteins to fight the inflammation.

Straight Teeth are Healthier Teeth

Straight, properly aligned teeth can help you avoid the negative effects of periodontal disease.

HEALTHIER GUMS

Properly aligned teeth are easier to brush and floss that crowded or crooked teeth. Properly positioned teeth can help gums "fit" more tightly around them, which may lead to better periodontal health.⁴

IMPROVED HYGIENE

With good oral hygiene, the chances of having plaque retention, tooth decay, and periodontal disease can be reduced.

DECREASED RISK OF ABNORMAL WEAR AND TRAUMA

Properly aligned teeth also reduce the risk of expensive procedures required to repair the effects of abnormal force, such as tooth chipping, breaking, or wear; and can be less stressful on the supporting jaw bone and joints.

A Straightforward Solution

Straightening your teeth can make a significant difference to having a healthy mouth and keeping your teeth for life. Ask your doctor about straightening your teeth using Invisalign, a set of clear aligners that are custom-made to gradually straighten your teeth. Start on the road to a healthy mouth today. Inquire about Invisalign treatment.