

CROSSBITE

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



EXCESSIVE OVERJET

- Chipped or fractured front teeth
- Trauma to front teeth



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

If 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).47







in the US population, 1988-1991. Brunelle, et. Al. Journal of

Chun-Hsi Chung, DMD, MS/Robert L. Vanarsdall, DDS/ Elisabetta Ada Cavalcanti, DMD/Jill S. Baldinger, DMD/Chern-Hsiung Lai, DMD, PhD. Int'l Journal of Adult Orthodontics and

³ Effects of crowding in the lower anterior segment - a risk evaluation depending upon the degree of crowding Staufer K Landmesser H. Journal of Orofacial Orthopedics. (1/04)

Periodontal disease and tooth loss. Ong G. Int'l Dental Journal (6/98) Periodontal considerations in the use of bonds or bands on molars in adolescents and adults. Boyd RL

Baurind S. Angle Orthod. (1992) Gingival condition associate with orthodontic treatment. Zachrisson S, Zachrisson BU.

Diseases in Periodontitis Patients: A Cross-Sectional Study Willem Nesse Pieter IJ Diikstra Frank Abbas Fred K I Spijkervet, Astrid Stijger, Jan A.H. Tromp, Johan L. van Dijk

Report of the Independent Panel of Experts of The Scottsdale Project. Casey Hein, Charles Cobb, Anthony Iacopino, et al. Grand Rounds (2007)

Periodontitis: a future risk of acute coronary syndrome A follow-up study over 3 years. Renvert S, Ohlsson O, Pettersson T, Persson GR. Journal of Periodontoly. (7/2010)

© 2010 Align Technology, Inc. All rights reserved. M20140, REV 2

WWW.INVISALIGN.COM

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
- Risk of periodontal disease, tooth, and bone loss



SPACING

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



DEEP BITE

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

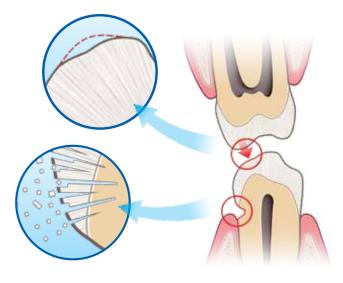
Malocclusion and Periodontal Disease

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

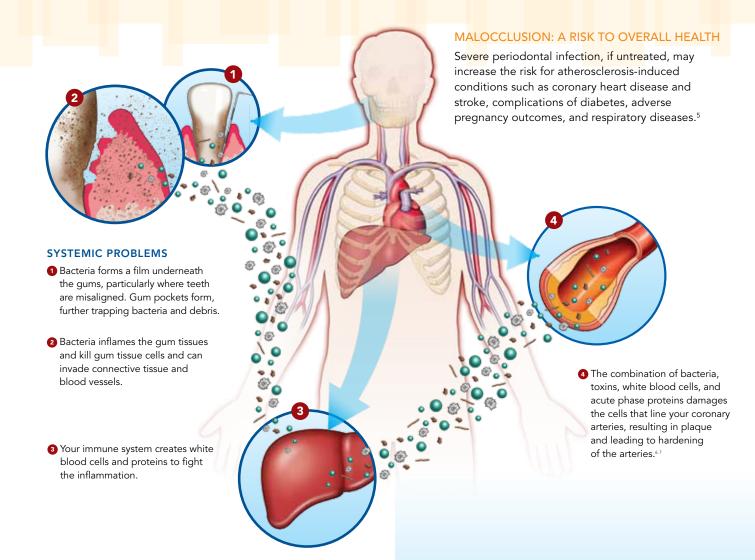
When teeth are crowded, plaque with harmful bacteria can attach to the tooth surface down to the bottom of the pocket.^{2,3} Plaque can be difficult to remove from crowded areas because it is difficult to brush and floss here. Bacteria can cause gum tissue surrounding the tooth to degrade, and if not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



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 than 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.