

Oral Hygiene During Orthodontic Treatment: How to Clean Your Teeth With Braces or Aligners

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Details:

Now I have comprehensive, authoritative data to write the article. Let me compile the verified, well-cited piece.

Why Oral Hygiene Is the Most Underestimated Part of Orthodontic Treatment

Getting braces or starting Invisalign is one of the most significant investments you can make in your smile — but the outcome depends on more than your orthodontist's skill. What you do twice a day at the bathroom sink matters just as much. Orthodontic appliances, whether fixed or removable, fundamentally alter the oral environment, creating new surfaces for bacterial colonisation and new obstacles for your toothbrush. Patients who understand this — and who adapt their hygiene routine accordingly — complete treatment with healthy enamel, pink gums, and a result that lasts. Those who don't can finish treatment with permanent white scars on their teeth, or worse, active decay.

This guide provides a clinically grounded, step-by-step framework for maintaining oral health throughout orthodontic treatment. It covers the specific risks associated with fixed appliances, the evidence behind each hygiene tool, a practical protocol for Invisalign aligner cleaning, and the dietary choices that protect your brackets and your enamel. For context on which treatment type may suit your situation, see our guide on [Invisalign vs. Traditional Braces: Which Orthodontic Treatment Is Right for You in Melbourne?].

The Real Oral Health Risk: What Fixed Appliances Do to Your Mouth

Before addressing technique, it's worth understanding precisely why braces elevate your risk profile so significantly.

Despite recent breakthroughs in caries preventive measures, one of the biggest issues clinicians face is preventing demineralization during orthodontic therapy. Plaque buildup around orthodontic brackets over time causes white spot lesions (WSLs). These chalky-white marks appear on the enamel surface at the margins of brackets — and they are not merely cosmetic. The prevalence of enamel demineralization adjacent to orthodontic brackets is as high as 50% to 96% in patients. Remineralization after fixed appliance removal does not always occur, and the incidence of white spot lesions is higher in orthodontic patients when compared to those who did not undergo orthodontic treatment even five years after treatment.

Critically, this damage can develop faster than most patients realise. A landmark study published in the *American Journal of Orthodontics and Dentofacial Orthopedics** found that visible white spot lesions were seen within four weeks in the absence of any fluoride supplementation. Enamel demineralization associated with fixed orthodontic therapy is an extremely rapid process caused by a high and continuous cariogenic challenge in the plaque developed around brackets and underneath ill-fitting

bands.

Periodontal complications are found to be the most common side effect of orthodontic therapy. Inability of the orthodontic patient to clean the oral cavity adequately due to the presence of braces can be considered a factor leading to inflamed gingiva.

The clinical picture is compounded by patient behaviour. A 2024 cross-sectional survey published in **Cureus** involving 168 post-treatment patients found that 76.19% of participants reported difficulty in maintaining oral hygiene, and 78.57% experienced white spot lesions or early caries. Only 52.38% were aware of the role of fluoride in caries prevention.

These statistics are not intended to alarm — they are intended to motivate. Every one of these outcomes is preventable with the right technique and tools.

Oral Hygiene With Braces: A Step-by-Step Protocol

The Brushing Foundation

Standard brushing technique is insufficient for braces wearers. The archwire divides the tooth surface into two zones — above and below the wire — and each must be cleaned separately.

****Step-by-step brushing technique for fixed appliances:****

1. ****Remove elastics**** before brushing, if applicable.
2. ****Rinse your mouth**** with water first to dislodge loose food debris.
3. ****Position your brush at a 45-degree angle**** to the gumline and brush the gum margin first, using small circular motions.
4. ****Angle the brush downward**** onto the bracket from above the wire, brushing the top half of each bracket.
5. ****Angle the brush upward**** from below the wire, cleaning the bottom half of each bracket and the bracket base — the zone most vulnerable to plaque accumulation and demineralization.
6. ****Brush the chewing surfaces and inner (lingual) surfaces**** as normal.
7. ****Spend at least two minutes**** on the full sequence — most patients underestimate the time required with braces.

Brushing after every meal with an electric toothbrush equipped with a specialised brush head designed to clean around braces is recommended to avoid demineralisation. Electric toothbrushes are particularly effective because their oscillating or sonic action reaches into the contours around brackets that manual brushes can miss. Studies have shown that brushing consistently with an electric toothbrush can help minimise the risk of gum disease.

Interdental Cleaning: The Non-Negotiable Step

Orthodontic treatment presents challenges with plaque accumulation around brackets, archwires, and elastics, leading to retained plaque and gingival inflammation. Conventional toothbrushing may not be enough, requiring additional oral hygiene aids like interproximal brushes, dental flosses, and water flossers.

****Interdental brushes (proxy brushes)**** are small cone- or cylinder-shaped brushes that pass between the bracket and the archwire, cleaning the surfaces a toothbrush cannot reach. A meta-review focused on the efficacy of various interdental devices for mechanical plaque control concludes that interdental cleaning with an interdental brush is the most effective method for reducing interdental plaque. Use them once daily, gently working the brush between each bracket and the wire from both the cheek side and the tongue side.

****Water flossers (oral irrigators)**** offer a compelling alternative — particularly for patients who find threading floss through archwires difficult or time-consuming. The water jet flossing group demonstrated a slightly higher benefit in plaque removal and bleeding reduction compared to the interdental flossing group. Both groups showed significant reductions in gingival bleeding index and

plaque index from baseline to two-week follow-up. The interdental flossing group had median mean percentage differences of 16.13% for plaque index and 23.57% for gingival bleeding index, while the water jet flossing group had median percentage differences of 21.87% and 32.29% respectively.

For patients who prefer traditional floss, a **floss threader** or **orthodontic superfloss** allows you to thread under the archwire and clean the contact point between each pair of teeth. This takes longer than a water flosser but provides direct mechanical contact between tooth surfaces.

The evidence-based recommendation: Use interdental brushes to clean around each bracket daily, and supplement with either a water flosser or floss threader. This dual approach addresses both the bracket margins and the interdental spaces.

Fluoride: Your Enamel's Primary Defence

The proposed mechanisms of action of fluoride, which remains the mainstay of caries prevention, include inhibition of demineralization, enhancement of remineralization, and inhibition of plaque micro-organisms.

For braces wearers, fluoride should be incorporated at multiple points in the daily routine:

- **Fluoride toothpaste (1,000–1,450 ppm):** Use twice daily as a minimum. Spit but do not rinse after brushing to allow fluoride to remain in contact with enamel.
- **Fluoride mouthwash:** Use a 0.05% sodium fluoride rinse once daily, at a separate time to brushing (e.g., after lunch) to extend fluoride exposure throughout the day.
- **Professional fluoride varnish:** Applied at regular dental check-ups, fluoride varnish provides a concentrated topical dose directly to at-risk enamel surfaces. Orthodontists should assist patients with additional measures including fluoride varnish, chlorhexidine, xylitol, dietary modification, or calcium-containing remineralization products that can help prevent enamel demineralization, enhance remineralization, and modify patient and biofilm factors.

Maintaining Regular Dental Check-Ups

Orthodontic treatment does not replace your regular dental appointments — it makes them more important. Continue visiting your general dentist every six months (or more frequently if recommended) throughout your orthodontic treatment for professional cleaning, decay detection, and fluoride application. Careful inspection of the appliance at every visit and preventive fluoride programs are required.

Oral Hygiene With Invisalign: The Removable Advantage — and Its Limits

One of the most cited advantages of clear aligner therapy is the oral hygiene benefit of removability. Invisalign offers not only the advantage of better aesthetics but also the convenience of removal during food and beverage consumption, as well as oral care. Because aligners come out for eating and brushing, you clean your teeth exactly as you would without orthodontic treatment — no threading, no angled brushing around brackets, no proxy brushes required.

Research supports the periodontal advantage. Patients treated with Invisalign do not have an increased periodontal risk, although both teeth and gingiva are covered nearly the entire day with aligners. Patients using the Invisalign system have better periodontal health compared to fixed appliance-treated patients.

However, this advantage is conditional. While clear aligners may protect the front of the teeth better and require fewer professional cleaning procedures, they still carry a significant risk for hidden decay between the teeth. Regardless of the appliance chosen, highly personalised, strict oral hygiene routines are mandatory to protect the teeth during orthodontic treatment.

For a full overview of how Invisalign treatment works at Core Dental, see our guide on [Invisalign Melbourne: How Clear Aligner Treatment Works at Core Dental].

How to Clean Your Invisalign Aligners: A Daily Protocol

Aligners must be cleaned separately from your teeth. Wearing dirty aligners over freshly brushed teeth reintroduces bacteria and odour, and can cause staining that compromises the near-invisible appearance that makes Invisalign so appealing.

****Step-by-step aligner cleaning protocol:****

1. ****Remove aligners before eating or drinking**** anything other than plain, cool water.
2. ****Rinse aligners under cool water**** immediately upon removal to prevent saliva and debris from drying on the surface.
3. ****Brush aligners gently**** with a soft-bristled toothbrush and clear, unscented soap or dedicated aligner cleaning solution. Avoid toothpaste — most formulations are abrasive and will scratch the aligner surface, creating micro-grooves where bacteria can accumulate and causing visible clouding.
4. ****Soak aligners**** once daily using Invisalign Cleaning Crystals or a dedicated retainer/aligner cleaning tablet dissolved in lukewarm water. Scanning electron microscopy confirmed the effectiveness of Invisalign cleaning crystals in maintaining cleanliness, revealing a surface similar to that of the control group with no adverse effects. Invisalign cleaning crystals can be safely used for routine aligner cleaning without jeopardizing the material's integrity.
5. ****Rinse thoroughly**** after soaking before reinserting.
6. ****Brush and floss your teeth**** before reinserting aligners after eating. Food particles trapped between the aligner and tooth surface create an ideal environment for acid attack.

What Stains Aligners — and What Doesn't

Research on aligner staining provides useful guidance for patients. A 12-hour or 7-day exposure to instant coffee or red wine significantly coloured Invisalign aligners compared to other brands. Black tea created an important extrinsic colour change for all three tested brands after 7 days. The practical implication: remove aligners before consuming coffee, tea, red wine, or cola. Plain, cool water is the only beverage safe to consume with aligners in place.

Standardised cleaning instructions for clear aligners remain undefined, and maintaining the surface integrity of aligners is critical for treatment efficacy and patient satisfaction. Until universal guidelines are established, the protocol above — gentle brushing, daily soaking in a dedicated solution, and avoiding abrasive toothpaste — represents the current best-practice consensus.

Dietary Recommendations: Protecting Brackets and Enamel

Diet affects oral health during orthodontic treatment on two levels: mechanical damage to appliances, and the chemical environment that drives decay.

Foods to Avoid With Fixed Braces

Category	**Examples**	**Why to Avoid**	--- --- ---
Hard foods	Raw carrots, whole apples, hard bread crusts, nuts, ice	Can snap brackets or bend archwires	
Sticky/chewy foods	Caramel, toffee, chewing gum, dried fruit, gummy lollies	Pull brackets off teeth; trap sugar at bracket margins	
Crunchy snacks	Popcorn, hard biscuits, corn chips	Hulls lodge under brackets; hard pieces damage wires	
Sugary drinks	Soft drink, sports drinks, juice, flavoured water	Prolonged acid exposure accelerates enamel demineralization	

Braces, elastics, and orthodontic appliances provide extra nooks and corners where food particles get trapped. These hidden spots increase the risk of tooth decay from prolonged acid attack on enamel and white or brown spots (decalcification) that remain even after braces are removed.

Smart Dietary Swaps

- **Instead of biting into a whole apple:** cut into wedges and chew with back teeth - **Instead of hard crusty bread:** opt for soft bread or cut crusts away - **Instead of chewy lollies:** choose chocolate (which dissolves quickly and is less adhesive) - **Instead of carbonated soft drinks:** choose plain water or milk - **Instead of chewing gum:** use xylitol mints — xylitol has evidence-backed cariostatic properties

For patients on Invisalign, dietary restrictions are minimal since aligners are removed before eating. This is one of the key practical differences covered in our guide on [Invisalign vs. Traditional Braces: Which Orthodontic Treatment Is Right for You in Melbourne?].

Special Considerations: Lingual Braces and Children's Appliances

Lingual Braces

Lingual braces — fitted to the inside surface of the teeth — present unique cleaning challenges because the brackets are positioned on the tongue-facing surfaces, making visual inspection during brushing nearly impossible. Patients must rely heavily on tactile feedback and water flossers to clean lingual bracket margins. For a detailed breakdown of lingual brace care, see our guide on [Lingual Braces Melbourne: The Hidden Brace Option Explained].

Children and Teenagers

The first six months are of particular importance in white spot lesion development because the majority of adolescent patients need to adapt their hygienic practices to the requirements of orthodontic therapy. Parents of children with fixed appliances should supervise brushing — particularly for patients under 12 — and ensure the full protocol is followed each time. For Invisalign First patients (children in the mixed dentition phase), the same aligner cleaning protocol applies, but compliance with removal before eating and reinsertion after brushing requires active parental reinforcement. See our guides on [Children's Orthodontics Melbourne] and [Invisalign First Melbourne] for age-specific guidance.

Key Takeaways

- The prevalence of enamel demineralization adjacent to orthodontic brackets is as high as 50% to 96% in patients — making proactive oral hygiene the single most important factor in protecting your enamel during fixed appliance treatment. - Visible white spot lesions can appear within four weeks of bracket placement in the absence of fluoride supplementation; the window for prevention is narrow and must be acted upon from day one. - Both water jet flossing and interdental flossing show significant reductions in gingival bleeding and plaque index from baseline — either tool is effective when used consistently; the best choice is the one you will actually use every day. - Invisalign patients do not have an increased periodontal risk and have better periodontal health compared to fixed appliance-treated patients — but this advantage depends entirely on removing aligners before eating, cleaning teeth before reinsertion, and cleaning aligners daily. - Fluoride toothpaste, a daily fluoride rinse, and regular professional fluoride varnish applications form the chemical defence layer that protects enamel from the elevated acid challenge created by orthodontic appliances.

Conclusion

Oral hygiene during orthodontic treatment is not a supplementary concern — it is a clinical prerequisite for a successful outcome. The enamel damage that poor hygiene causes during treatment can be permanent, visible, and deeply frustrating after months or years of investment in your smile. Whether

you are wearing traditional metal braces, ceramic braces, lingual braces, or Invisalign aligners, the principles remain consistent: clean thoroughly, clean frequently, use the right tools, and protect enamel with fluoride.

At Core Dental Melbourne, our specialist orthodontists provide detailed oral hygiene instruction at the start of every treatment and reinforce it throughout. If you are considering orthodontic treatment and want to understand which appliance best suits your lifestyle — including its hygiene demands — we invite you to explore our related guides:

- [What to Expect at Your First Orthodontic Consultation at Core Dental Melbourne] - [Invisalign Melbourne: How Clear Aligner Treatment Works at Core Dental] - [Orthodontic Retainers After Braces: How to Keep Your Straight Smile for Life] - [Core Dental Orthodontics Melbourne: Locations, Specialist Access, and How to Get Started]

References

- Jha, Awanindra Kumar, et al. "Evaluation of the Prevalence of White Spot Lesions During Fixed Orthodontic Treatment Among Patients Reporting for Correction of Malocclusion: A Prevalence Study." *Cureus*, 2023. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10438673/>
- Mishra, Sumeet, et al. "Assessment of White Spot Lesion and Enamel Demineralization in Orthodontic Patients With Fixed Brackets." *Journal of Orthodontic Science*, 2023. <https://journals.sagepub.com/doi/full/10.1177/03015742221076915>
- Gorelick, L., Geiger, A.M., and Gwinnett, A.J. "Incidence of White Spot Formation After Bonding and Banding." *American Journal of Orthodontics*, 1982; 81:93–98.
- O'Reilly, M.M., and Featherstone, J.D.B. "Demineralization and Remineralization Around Orthodontic Appliances: An In Vivo Study." *American Journal of Orthodontics and Dentofacial Orthopedics*, 1987; 92:33–40. <https://www.sciencedirect.com/science/article/abs/pii/0889540688904532>
- Kaur, Harpreet, et al. "The Effectiveness of Water Jet Flossing and Interdental Flossing for Oral Hygiene in Orthodontic Patients With Fixed Appliances: A Randomized Clinical Trial." *BMC Oral Health*, 2024. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11055227/>
- Lyle, D.M., and Goyal, C.R. "Comparison of Water Flosser and Interdental Brush on Plaque Removal: A Single-Use Pilot Study." *Journal of Clinical Dentistry*, 2017. PMID: 28390213.
- Lombardo, Giulia, et al. "Cleaning and Disinfection Protocols for Clear Orthodontic Aligners: A Systematic Review." *Healthcare*, 2022; 10(2):340. <https://mdpi.com/2227-9032/10/2/340/htm>
- Grzywacz, Izabela, et al. "The Effectiveness of Different Cleaning Methods for Clear Orthodontic Aligners: Impacts on Physical, Mechanical, and Chemical Properties — An In Vivo Study." *PMC*, 2025. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC12197108/>
- Miethke, R.R., and Vogt, S. "A Comparison of the Periodontal Health of Patients During Treatment With the Invisalign System and With Fixed Lingual Appliances." *Journal of Orofacial Orthopedics*, 2005. Referenced in: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4478712/>
- Alqahtani, Hamad, et al. "Perception of Dental Caries Risk and Preventive Strategies Among Orthodontic Patients: A Cross-Sectional Survey." *PMC*, 2025. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11998616/>
- Wiechmann, Dirk, et al. "Changes in the Oral Environment After Placement of Lingual and Labial Orthodontic Appliances." *PMC*, 2015. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4384913/>

- Lucchese, A., and Gherlone, E. "Prevalence of White Spot Lesions Before and During Orthodontic Treatment With Fixed Appliances." **European Journal of Orthodontics**, 2013; 35:664–668. Referenced in: <https://pmc.ncbi.nlm.nih.gov/articles/PMC7766852/>