

MEDICAL BREAKTHROUGHS **RESEARCH SUMMARY**

TOPIC: BRIUS ORTHODONTICS: LOOK MOM, NO WIRES!
REPORT: **MB #4965**

BACKGROUND: The BRIUS is a system of braces that go behind the teeth, moving them individually, versus traditional braces that require the teeth to be attached to a bar in front. The BRIUS metal bar has arms that attach to the back of each tooth.. There is no retainer so there is no time where the patient can take the braces off, which can cause more recovery time when it comes to previous approaches like aligners. The overall treatment time is reduced by 55% with the BRIUS method. Fewer visits are also helpful to the patient, versus traditional methods that require more time in the chair. Many of the BRIUS patients can be successfully treated with just three visits.

(Source: <https://orthothrive.com/brius-an-invisible-orthodontic-option/>)

TRADITIONAL TREATMENT: Braces are needed for aesthetic purposes as well as functionality. If a patient has overcrowded or crooked teeth, too much space between their teeth, overlapping teeth, an underbite, or jaw misalignment problems, braces can help fix these issues. Traditionally, braces are done in childhood, because it takes less time to correct the teeth. Generally, braces are safe; however, there is risk of losing minerals on your teeth, causing permanent small white stains, as well as tooth decay, cavities, and gum disease. To combat these risks, cut down on sugar, starch, hard or crunchy foods. Make sure to brush and floss carefully and rinse thoroughly to be sure no food is left in your gums or brackets.

(Source: <https://www.mayoclinic.org/tests-procedures/braces/about/pac-20384607>)

NEW TECHNOLOGY: Aside from BRIUS which is the newest technology in braces, clear braces are also new in orthodontics. They are similar to traditional braces, but the brackets are clear. The brackets are made out of a ceramic or plastic material. They are attached to each tooth and connected with a wire. Treatment usually takes 18-24 months. These can come with a white over wire, making the braces even more clear-looking and less noticeable, but this could also increase the price. It may be uncomfortable after they are first put in, and there is the potential to develop sores on the cheeks and gums. Wax is given as an option to help this as the inside of the patient's mouth gets used to the new materials. Depending on how severe the patients need for realignment of their teeth is, another option includes aligners, which are like clear plastic retainers given in stages to help the patient's teeth move.

(Source: <https://www.dentaly.org/us/clear-braces/>)

FOR MORE INFORMATION ON THIS REPORT, PLEASE CONTACT:

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If this story or any other Ivanhoe story has impacted your life or prompted you or someone you know to seek or change treatments, please let us know by contacting Marjorie Bekaert Thomas at mthomas@ivanhoe.com