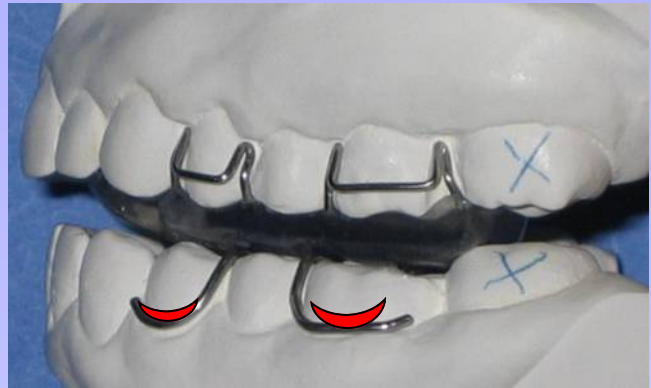


SAGITTAL APPLIANCES



The Sagittal is worn
24/7 (including meals)
for approximately four months.

Indications for Sagittal Treatment:

- Increase arch length and/or width
- Pre-maxillary development Ages 6-12
(prior to upper 2nd molar replacement)
- Distalization of posterior quadrants
(following 2nd molar replacement)
- Anterior and/or Posterior Crossbite Correction

Appliance Modifications Available:

- **Standard Two Screw:** Arch Length
- **“Optional” Three Screw:** Transverse and Arch Length (common design)
- **Occlusal Coverage:** To clear a crossbite and provide comfort during mastication. Far less fracture and patient acceptance.
- **Anterior Bite Plane:** Along with occlusal coverage can increase vertical as you relieve the acrylic over the lower 1st molars following several millimeters of expansion.

Acrylic coverage over Mx 2nd molars for non-extraction treatment requiring pre-maxillary development alone.

Laboratory Requirements:

- Upper and lower stone casts
- Construction bite in ideal vertical Class I A-P open 2mm in 2nd bicuspid region.
- **Class III Sagittal:**
DO NOT extract Mx 2nd molars.

Fabrication Improvements:

- Acrylic appliances are reinforced with wire mesh or Kevlar to reduce fracture.
- 14 karat gold solder joints to prevent discolouration/erosion.

Compliance Issues:

- Improve retention by placing a **resin wash** to create an undercut for the circumferential clasps on the lower cuspids and 1st molars (**illustrated**).
- Consider bonding the non-activated appliance in place for the first week.
- Rough up the occlusal surface to aid in mastication.
- Request rugae to the upper appliance to improve speech for teenagers and adults.

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