

UltraBlock

The Maxilla-Developing Appliance

“The UltraBlock is really several appliance designs in one, all of which allow the first permanent molars to erupt into proper occlusion.”

Appliance Benefits

The UltraBlock is a maxillary appliance that offers several benefits:

- Treatment time is greatly reduced over the use of Sagittal and Bionator appliances
- Corrects open bites
- It correctly positions the TMJ and mandible
- Doctors can treat Phase 1 and Phase 2 of TMJ therapy with one appliance.
- It can develop the maxilla in transverse/sagittal directions
- It corrects facial asymmetry
- It allows the first permanent molars to erupt to proper vertical, thus eliminating deep bites quickly
- The occlusal plane is leveled as the alveolar vertical height of the buccal segments of both jaws increase
- Overjets are corrected as the mandible is relocated forward
- Improved profiles
- Mild to moderate lower anterior crowding is corrected

Disadvantages

The doctor may need to monitor the progress of the UltraBlock a little more closely than other appliances since there are several changes taking place at the same time. The sequence of treatment must also be carefully followed. Patients will notice some impaired speech for a short time.

Lab Requirements

Mount case and adjust for correction of planes. Create bite on a Denar/Witzig articulator and adjust to the correct Gelb 4/7 position. Send to Johns Dental for appliance fabrication along with a set of good working models.

Appliance Design

The UltraBlock appliance works best if used when the permanent first molars are erupting during the mixed dentition phase.

The basic design covers the occlusal surface of the maxillary first and second primary molars and has a ramp to reposition the mandible forward as determined from the Denar-Witzig Articulator.

Variations are achieved by adding expansion screws for sagittal or transverse development. When the first permanent molars are not covered, the molars erupt and eliminate a deep bite.

WARNING: MORE CAN ERUPT AND PRODUCE AN OPEN BITE IF THERE IS A LACK OF SUPERVISION.

This appliance can develop the maxilla by incorporating a sagittal or transverse configuration into its basic design. Thus, it has all the advantages of the Sagittal, Transverse and Orthopedic Corrector plus it is much faster.

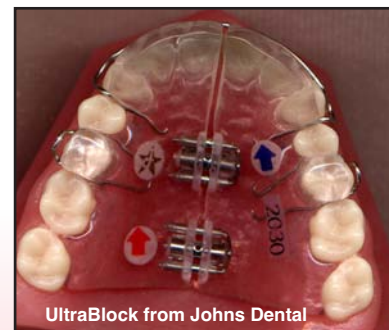
The UltraBlock can be bonded into place by bonding the Adams clasps to the primary teeth and removed weekly by the dentist for cleaning purposes. Thus, compliance is assured as well as learning to eat with the appliance.



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The UltraBlock, shown here on a permanent dentition model, also has applications for mixed dentition treatment. The incline is used here to bring the mandible forward and the expansion screws were added to achieve additional arch width.



The Denar/Witzig articulator is needed to adjust the patient bite and is to be adjusted to the correct Gelb 4/7 position.

Appliance Variations

Basic UltraBlock-without expansion screws

Molars covered- This is done to prevent eruption of the molars because the overbite is mild.

Molars uncovered- This version is used for a deep bite.

Transverse UltraBlock- Expansion screws are added to the basic UltraBlock style. Options with molars covered and uncovered are also available.

Sagittal UltraBlock- two or three Sagittal screws are used for gaining additional arch length/width. Options with molars covered and uncovered are also available.