EXTRAORAL ORTOPEDIC APPLIANCES





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Orthodontic Appliances That Apply
Extraoral Forces

ORTHODONTIC APPLIANCES

FIXED APPLIANCES







REMOVABLE APPLIANCES







ORTHODONTIC REMOVABLE APPLIANCES

INTRAORAL APPLIANCES



THE PURPOSE OF EXTRAORAL APPLIANCE USAGE

Orthodontic
 to move teeth

THE PURPOSE OF EXTRAORAL APPLIANCE USAGE

Orthodontic
 to move teeth

Balances maxillomandibular relationship

The effect that changes the position and form of the maxilla and mandible relative to the cranium with intraoral or extraoral appliances is called orthopedic force.



THE PURPOSE OF EXTRAORAL APPLIANCE USAGE

There are some anchorage zones for extraoral appliances;



Neck



Cranium



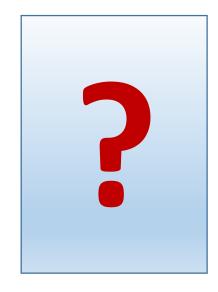
Forehead and chin



Cranium and chin



Cheeks



HeadGear



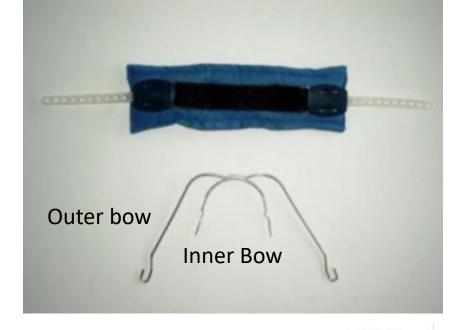
Headgear;

Facebow

Inner bow

Outer bow

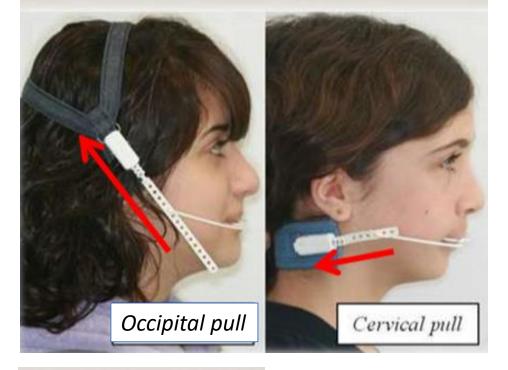
- Cervical and/or occipital pillow
- Maxillary molar bands





Types of Headgear;

- High-pull Headgear (Occipital HG)
- Low-pull Headgear (Servikal HG)
- Combined Headgear
- J-Hook Headgear









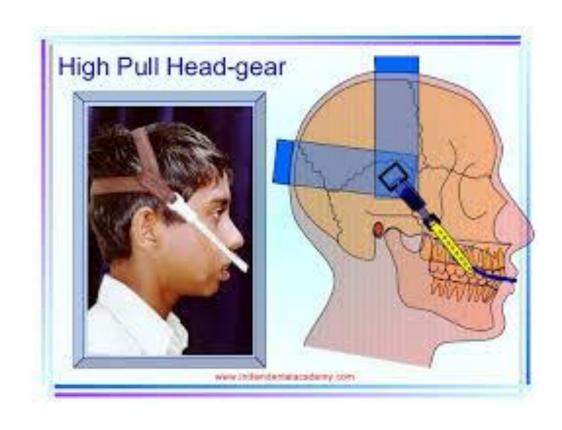
J Hook Headgear

• CERVICAL HEADGEAR





OCCIPITAL HEADGEAR





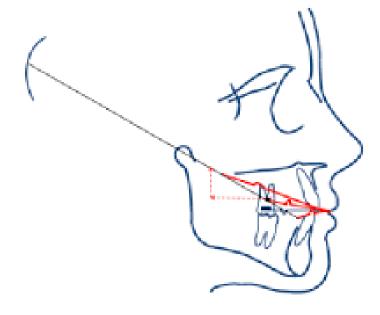
• **COMBINED HEADGEAR**











Why we are using Headgears?

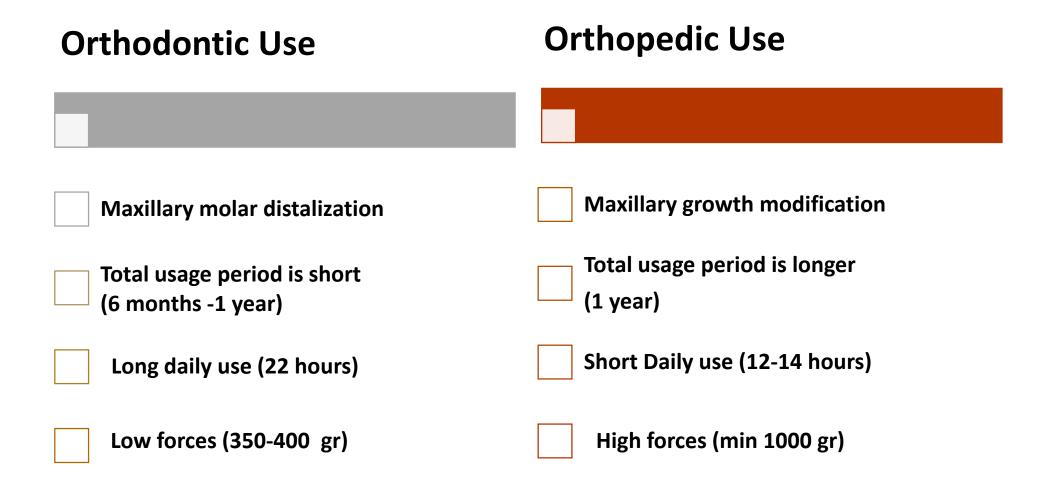
To modify the growth – inhibition of maxillary growth
 Orthopedic Effect

Tooth movement - Molar distalization
 Orthodontic Effect

To enpower anchorage

Enrich Anchorage

Why we are using Headgears?



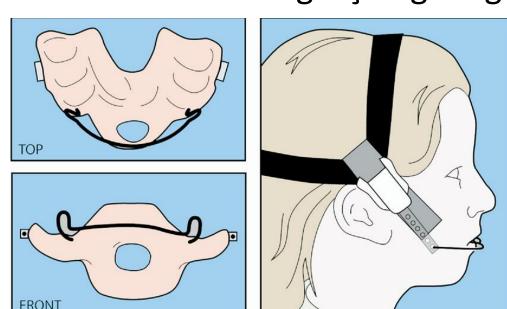
Headgear – Functional Appliance Combination Stöckli Teuscher Appliance

High-pull Headgear



Activator

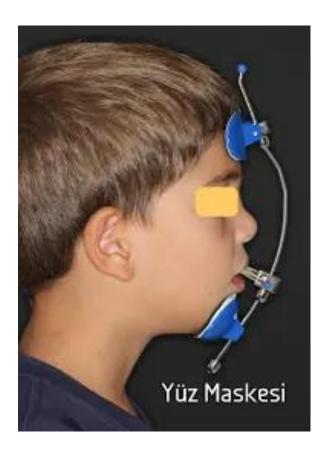
 Maxiller gelişim fazlalığı ile birlikte Mandibular gelişim geriliği bulunan hastalarda uygulanır

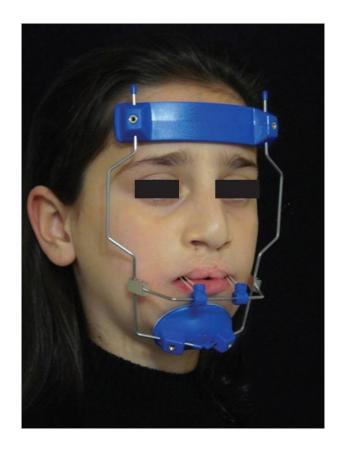




FACE MASK



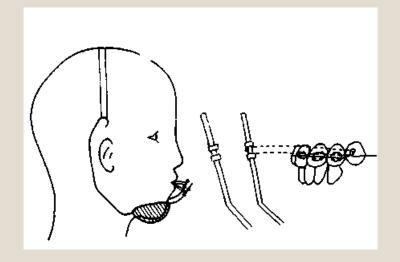


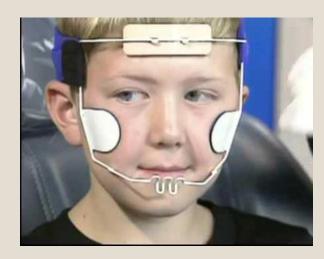




FACEMASK

Reverse Headgear





Delaire-Type Face Mask

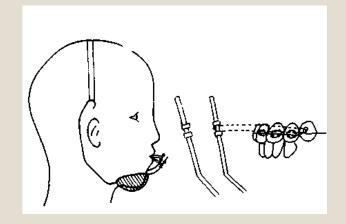


Petite-Type Face Mask



Grummons Face Mask

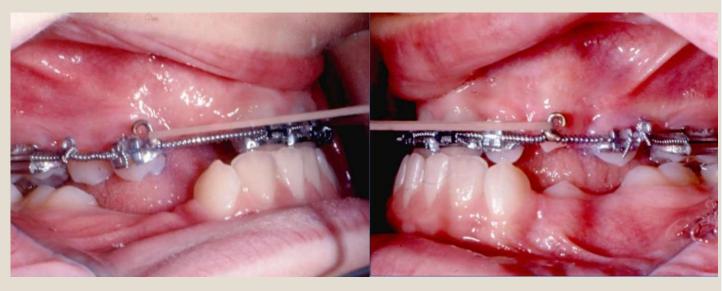
Reverse Headgear



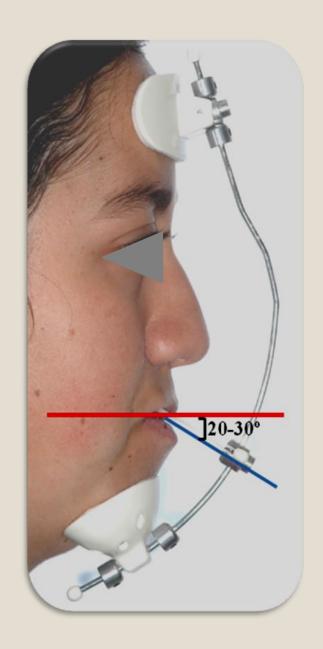








Prof.Dr. Mustafa Ülgen's archieve





The protraction force we apply to the maxilla may cause ANTERIOR ROTATION in the maxilla.

There may be anterior rotation of the maxilla (30° angle to prevent it)

• CHIN CUP, CHIN CAP





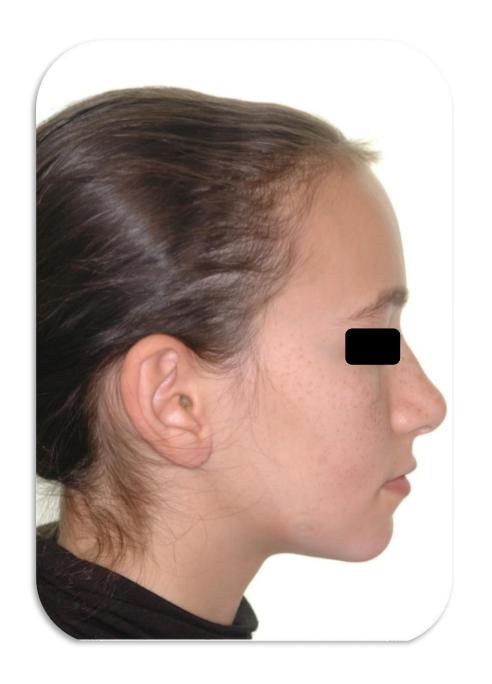
ORTHOPEDIC APPLIANCES USED IN CLASS III MALOCCLUSION TREATMENT





CHIN CUP





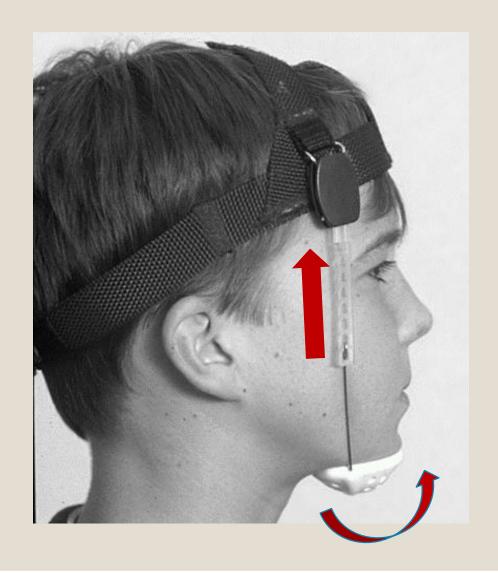
ORTHOPEDIC FORCE

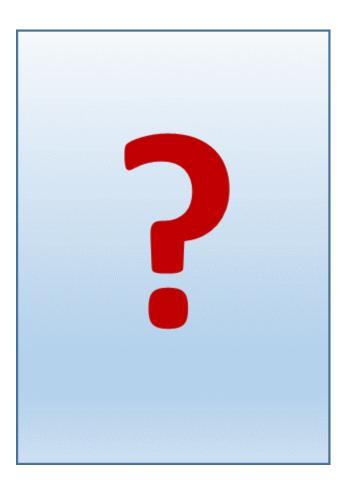
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Horizontal Chin Cup (oksipital)

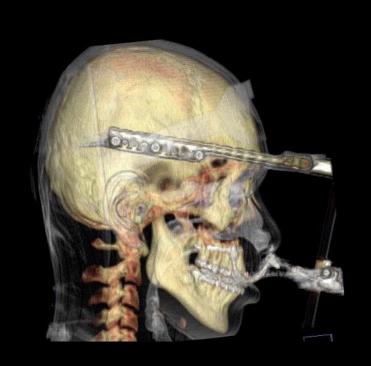
Vertical Chup Cup

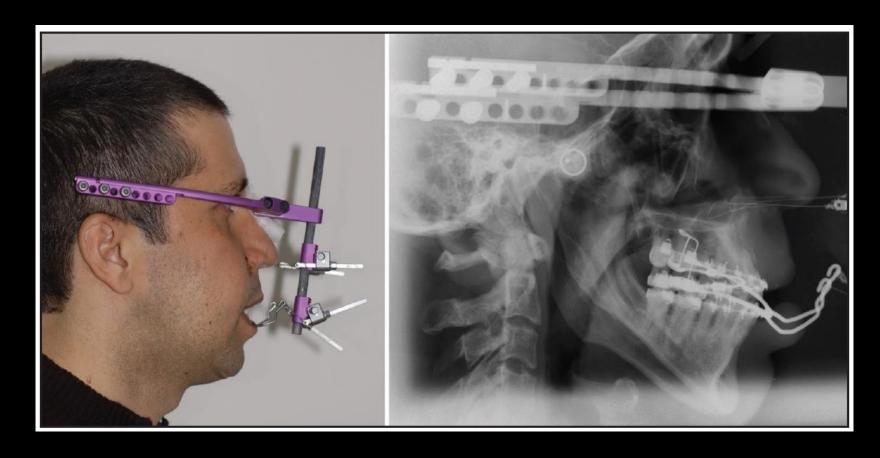


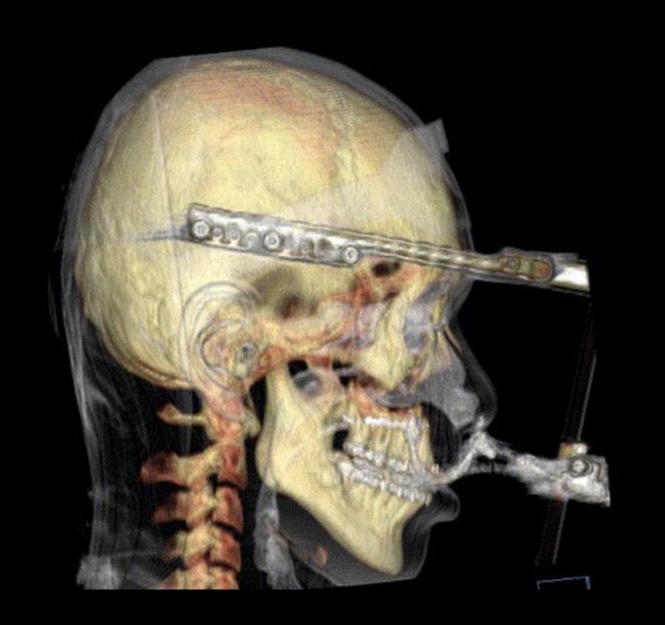




RIGID EXTERNAL DISTRACTION











Maxillary Advancement = 18 mm



Surgery: Prof.Dr. Ayşegül Tüzüner and Surgery Residents









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