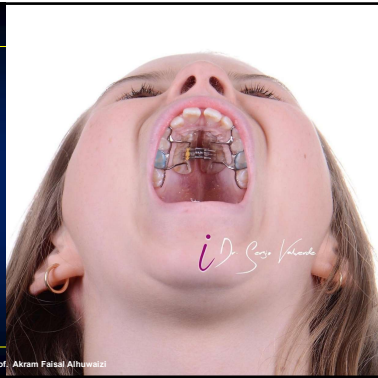


Expansion

- Correcting crossbite
- Creating space
- Pre-myofunctional Tx.
- Pre-surgical Tx.
- Widening smiles
- Sleep apnea
- Nocturnal enuresis



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Microimplant Assisted Rapid Palatal Expansion versus Midfacial Skeletal Expansion

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1

Methods of Expansion



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Miniscrew Assisted Rapid Palatal Expansion

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2

Methods of Expansion

Removable

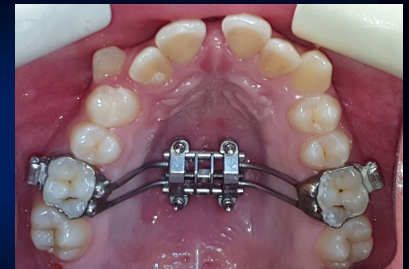
- ↑ Simple & cheap
- ↑ Any age
- ↓ Patient compliance
- ↓ Dental tipping



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Miniscrew Assisted Rapid Palatal Expansion



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Methods of Expansion

MARPE

- ↑ > skeletal expansion
- ↑ Less buccal tipping
- Patient compliance
- Adolescents & adults
- ↓ Difficult procedure



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Methods of Expansion

Fixed

- ↑ Simple & cheap
- ↑ Any age
- ↑ Patient compliance
- ↓ Dental tipping



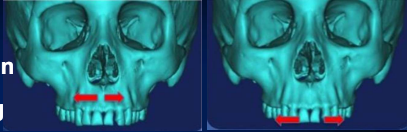
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7

Methods of Expansion

MARPE

- ↑ > skeletal expansion
- ↑ Less buccal tipping
- Patient compliance
- Adolescents & adults
- ↓ Difficult procedure



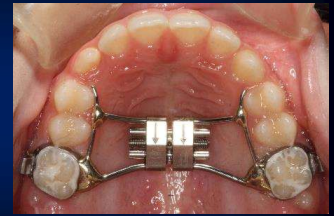
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Methods of Expansion

RPE (Hyrax)

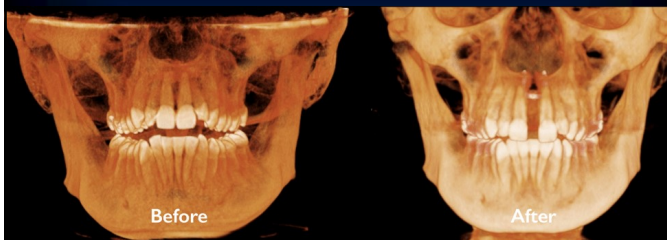
- ↑ 50% skeletal expansion
- ↑ Less buccal tipping
- Patient compliance
- ↓ Difficult procedure
- ↓ Age sensitive



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MARPE



Cunha AC, et al. (2017). Miniscrew-assisted rapid palatal expansion for managing arch perimeter in an adult patient. Dental Press J Orthod, 22(3), 97-108.

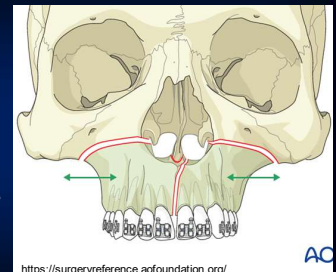
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Methods of Expansion

SARPE

- ↑ 50% skeletal expansion
- ↑ Less buccal tipping
- ↑ Patient compliance
- ↓ Very difficult procedure
- ↓ Adults



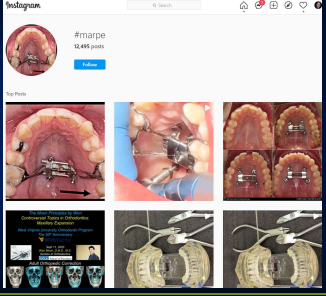
<https://surgeryreference.aofoundation.org/>

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Research

Articles
Instagram
FB groups



Prof. Akram Faisal Alhuwazi 16

Research

Articles
Instagram
FB groups

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Research

Articles
Instagram
FB groups

MSE user group
Private group · 3K members
This group is for MSE user group member of worldwide only, We can discuss ...
2 unread posts

MSE & Biomechanics
Private group · 739 members
3 unread posts
Member since February 2021

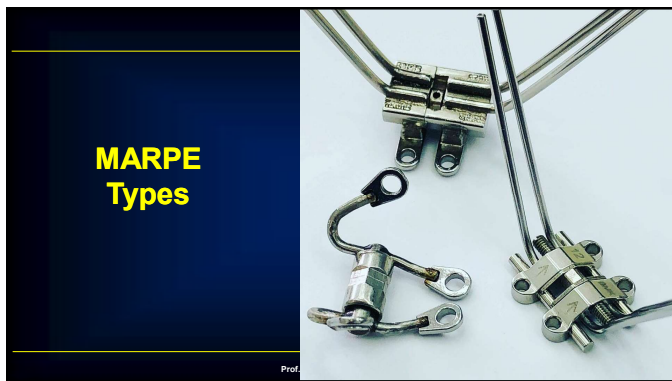
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Research

Articles
Instagram
FB groups

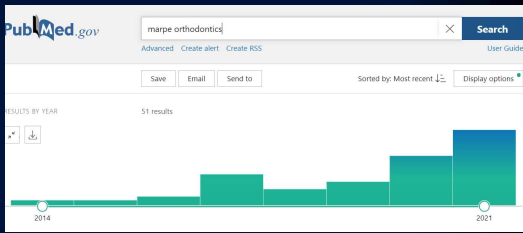


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Research

Articles
Instagram
FB groups



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MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first



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MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first

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MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first



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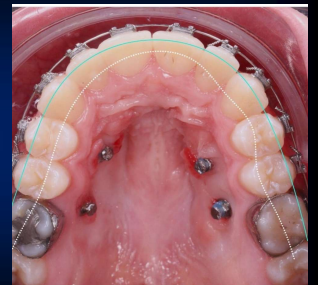
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MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first



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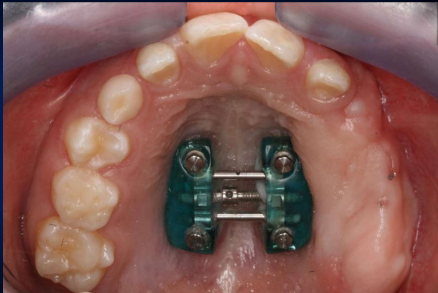
20

MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first



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24

MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first



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MARPE Types

- Bone borne
- Tooth-bone borne
- Acrylic
- Wires
- TAD first
- Appliance first

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MARPE Types

- Bone borne
- Tooth-bone borne
- Acrylic
- Wires
- TAD first
- Appliance first

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MARPE Types

- Bone borne
- Tooth-bone borne
- Acrylic
- Wires
- TAD first
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MARPE Types

- Bone borne
- Tooth-bone borne
- Acrylic
- Wires
- TAD first
- Appliance first

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MARPE Types

- Bone borne
- Tooth-bone borne
- Acrylic
- Wires
- TAD first
- Appliance first

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MARPE Types

- Bone borne
- Tooth-bone borne
- Acrylic
- Wires
- TAD first
- Appliance first

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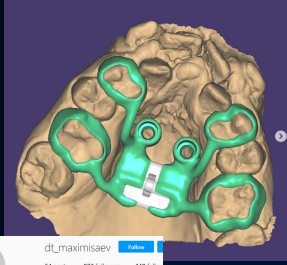

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Using 3D Bands



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64 posts · 823 followers · 148 following

Maxim
Personal blog
Bapak Maxim menjawab pertanyaan-pertanyaan
Pelayanan di @articon_dental
articon.id

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MARPE Types

Bone borne

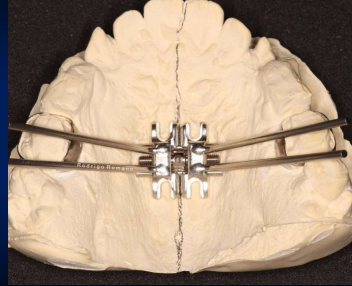
Tooth-bone borne

Acrylic

Wires

TAD first

Appliance first



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Using 3D Bands





partnersortho
17 posts · 56 followers · 168 following

Partners Dental Studio
Partners Dental Studio - Your partners in oral
Orthodontic lab, located in Eden Prairie, MN
#orthodontics #dentistry #CAD

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MARPE Types

Bone borne


Tooth-bone borne

Acrylic

Wires

TAD first


Appliance first




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Using 3D Bands





odmortodontia
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Orthodontics MSc: David maffa
Orthodontist
Master in Orthodontics and Dentalofacial Ortho
Wentzle
Masterclass & course of postgraduate following

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MARPE Types

Bone borne


Tooth-bone borne

Acrylic

Wires

TAD first

Appliance first

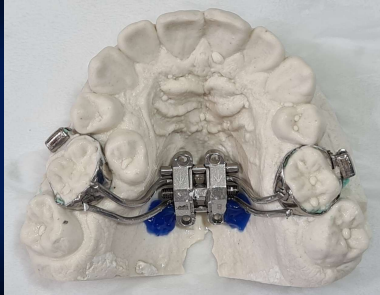


Prof. Akram Faisal Alhuwazi

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Procedure

Wire bending



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MARPE Types

Bone borne
Tooth-bone borne

Acrylic
Wires

TAD first
Appliance first

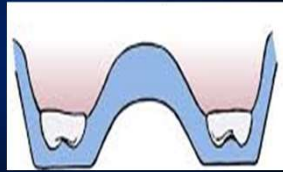
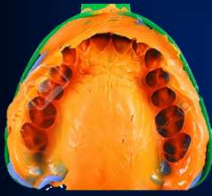


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Procedure

Proximity to palate



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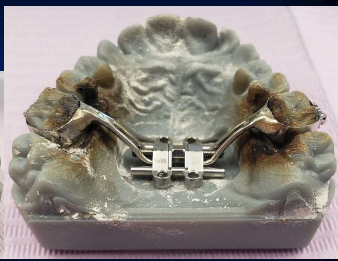
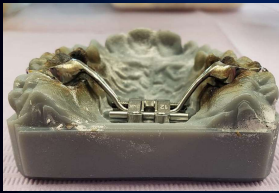
Procedure

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Procedure

Proximity to palate



Courtesy of Dr. Richard Ting

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Procedure

Impression



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Procedure



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Procedure

Clearance of vertical arms



<https://mseat35.blogspot.com/2019/07/>

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Procedure

Miniscrews
1.8 x 11mm
1.8 x 13mm
SS

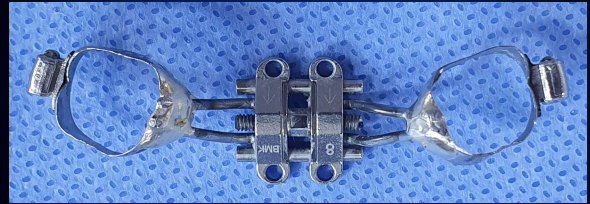


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Procedure

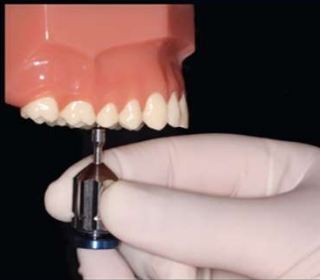
Soldering



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Procedure



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Procedure

Cementing



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Procedure



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Procedure

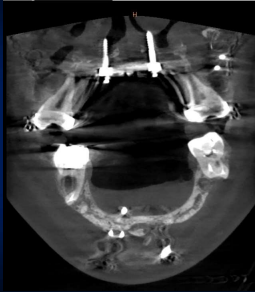


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Procedure

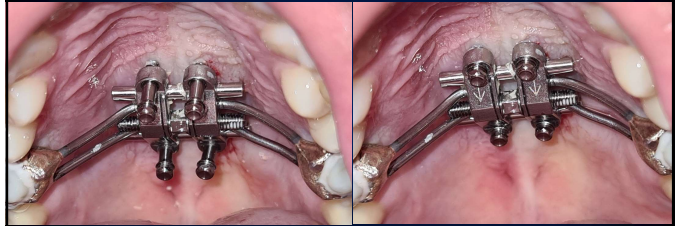
Bicortical



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Procedure



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Procedure

CBCT



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Procedure



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Procedure

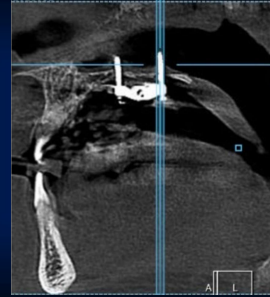


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Procedure

Parallel



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Procedure

Activation



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Procedure

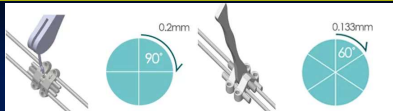


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Procedure

Activation

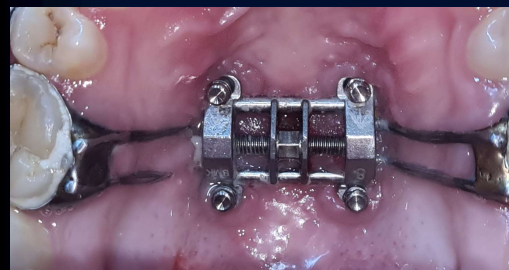


	MSE I	MSE II
Early teens	1 turn (0.1mm) / 2 days	1 turn (0.13mm) / day
Late teens	1 turn (0.2mm)/ day	2 turns (0.27mm)/ day
Early to Mid-20's	2-3 turns (0.4-0.6mm)/ day	4-6 turns (0.5-0.8mm)/ day
Older	≥2-3 turns (≥0.4-0.6mm)/day	≥4-6 turns (≥0.5-0.8mm)/day
After Diastema	1 turn (0.2mm) / day	2 turns (0.27mm) / day

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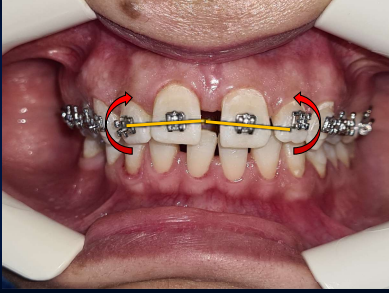
Procedure



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Procedure

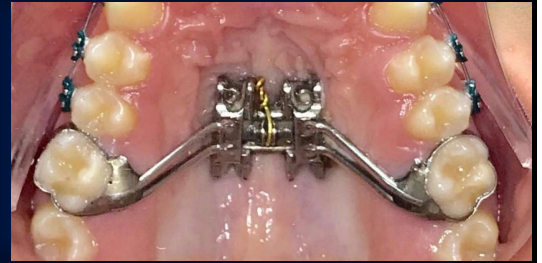


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Procedure

Locking



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Procedure

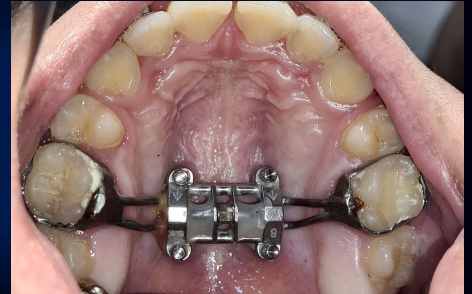


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Procedure

Locking



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Procedure



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Procedure

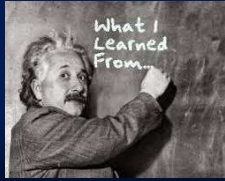


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Take Home Message

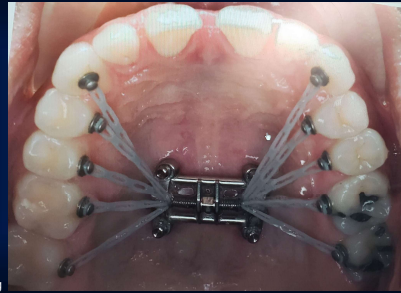
RPE can be done in adults by MARPE



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Procedure



Courtesy of Dr. Richard Ting

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Procedure

Cut arms



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Procedure



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