

The S.O.S. Orthodontic And
Dentofacial Orthopedic Study Club



CASE PRESENTATION

Severe Class III Dental And Skeletal
Malocclusion With TMD

2 Jaw surgical procedure Le Fort I

Total Maxillary Osteotomy, Maxillary Advancement, Superior
Repositioning and simultaneous Obwegeser-Dal Pont
Sagittal Split Osteotomy, Mandibular Set Back

Patient's Name: Dr. D.
DOB: 20.05.1992 Age 20 Yrs.

Dx :

Severe Class III Dental and Skeletal Malocclusion.
High angle face. Slightly Facial Asymmetry
Maxillary Hypoplasia (Retrognathic Maxilla)
Mandibular Prognathism (Prognathic Maxilla)
Mandibular ML is almost coincided with the facial ML,
but shifts to the Lt. 1.5 mm in compare to the
maxillary Midline
Maxillary ML shifts to the Rt. 2.0 mm in compare to
facial Midline
OJ = -6 mm OB = +3 mm

TMD



2014.01.10

Patient's Name: **Dr. D.**
DOB: 20.05.1992 Age 20 Yrs.

Tx Planning :

Phase I Orthopedic Phase

The Bangkok Splint for 6 mons.
14.07.2012 - 12.01.2013

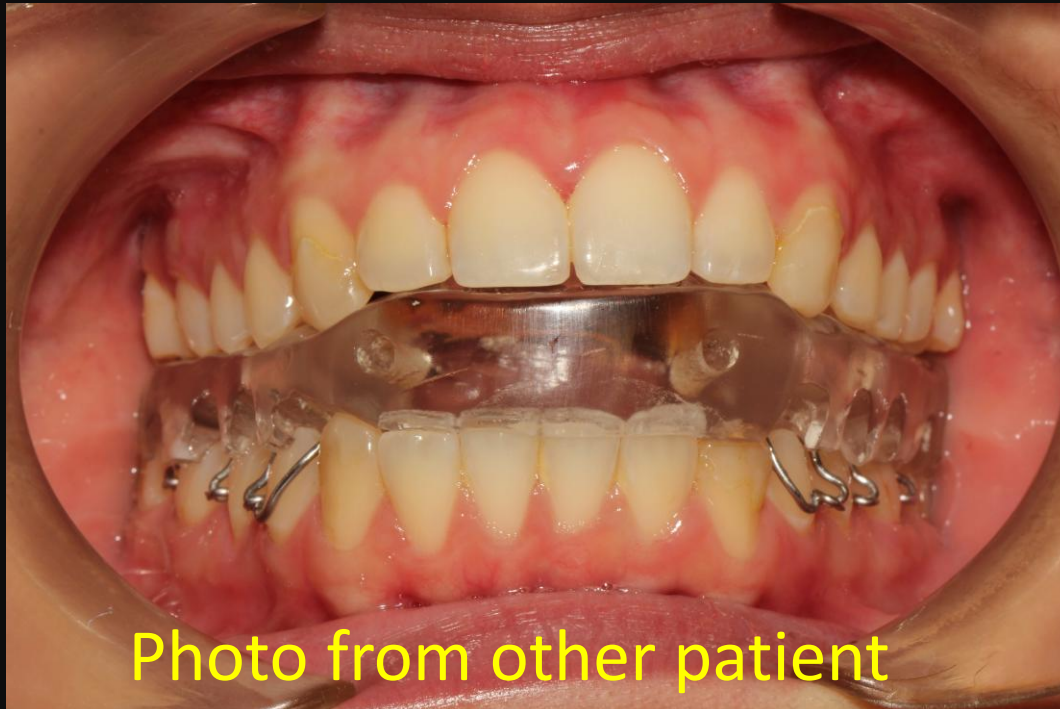


Photo from other patient



2014.01.10

Patient's Name: Dr. D.
DOB: 20.05.1992 Age 20 Yrs.



Tx Planning :

Phase II Presurgical Orthodontics with Non-extraction
Therapy

Arch wire coordination

Vertical Dimension control

Phase III Surgery: Maxillary Le Fort I Total Maxillary
Osteotomy. Maxillary Advancement Approx. 4 mm and
superior repositioning. 2-3 mm. Simultaneous
Obwegeser-Dal Pont Mandibular Sagittal Split
Osteotomy. Set back and Centering

OP Date 18.02.2014

2014.01.10



Patient's Name: Dr. D.
DOB: 20.05.1992 Age 20 Yrs.
Tx Planning :

Phase IV Post-surgical Orthodontics.
Relapse Control. POHI
Post-surgical Jaw Exercises (8th weeks)
Finishing the occlusion in Class I Canine and
Molar relationship with Bilateral Symmetrical
Canine Guidance
Fine tuning of the occlusion
Selective Grinding
Retention

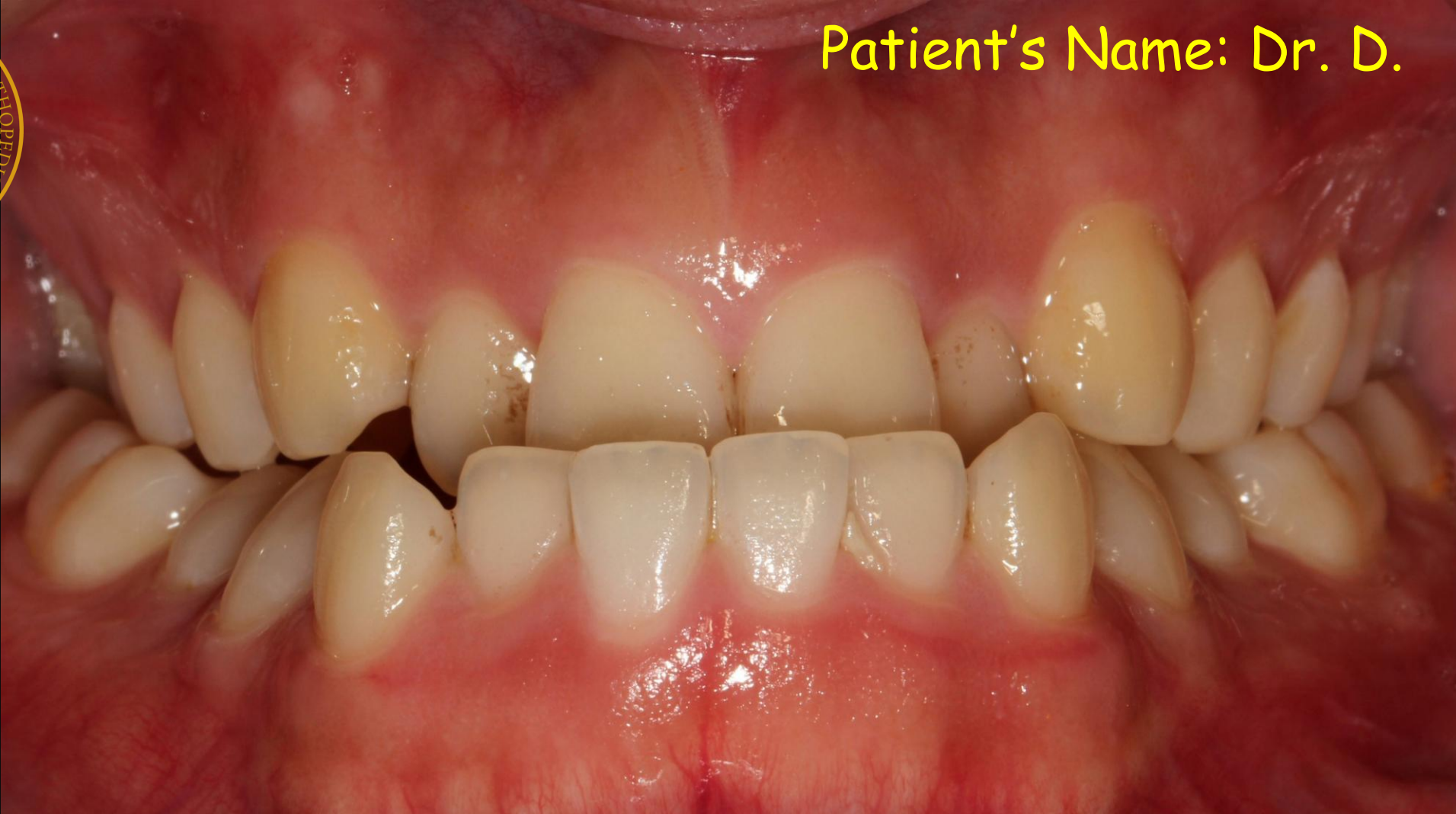
2014.01.10



Dental & Skeletal Class III malocclusion
Anterior Cross bite, Unilateral Cross bite Rt. Initial
2013.01.05



Patient's Name: Dr. D.



Mandibular Dental Midline shifts to
the Rt. 1.5 mm

2013.01.05

Dental & Skeletal Class III malocclusion



2013.01.05

Anterior Cross bite,
Unilateral Cross bite Rt.

Patient's Name: Dr. D.



Rt. & Lt. Lateral view:
Full Class III malocclusion

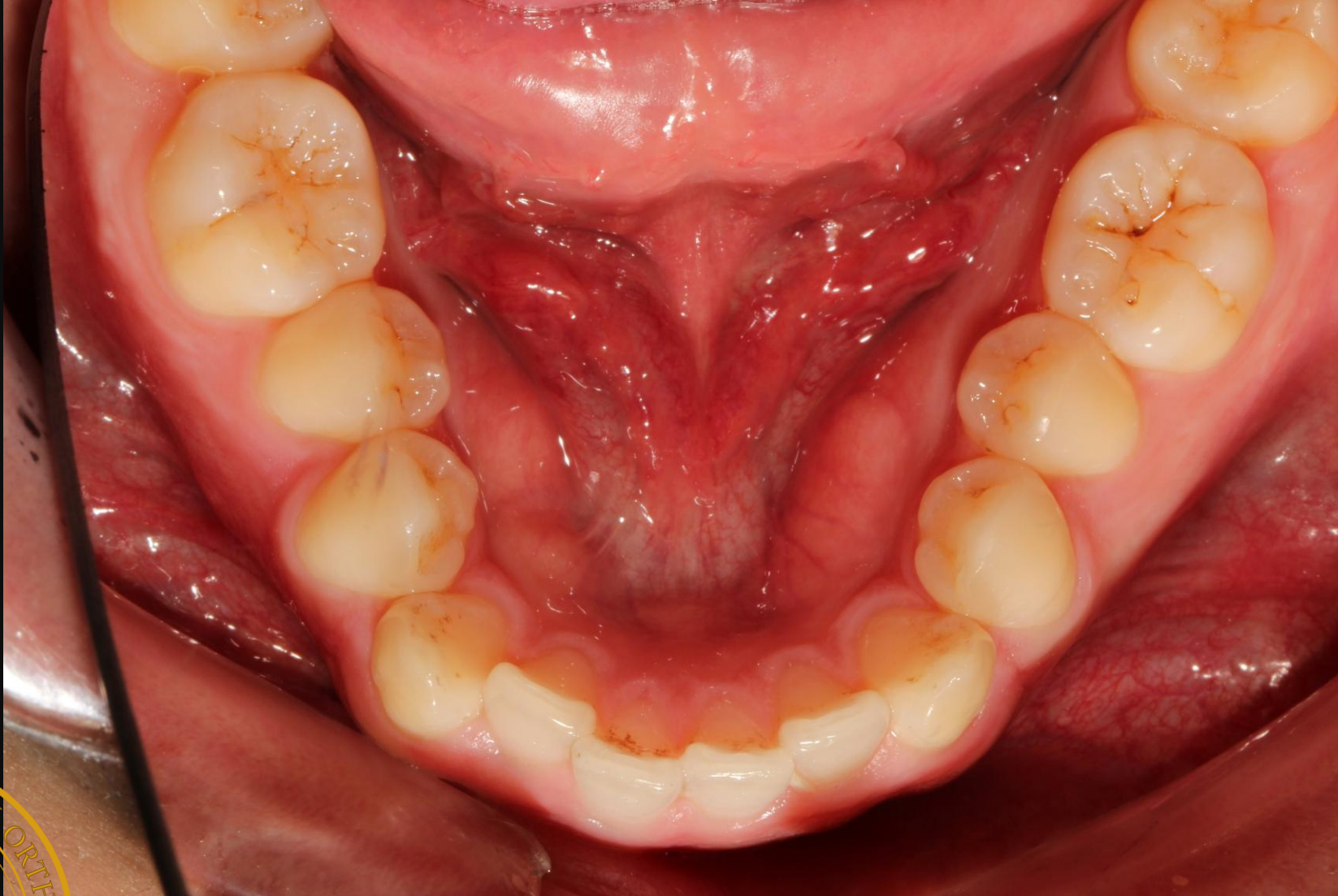
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Occlusal view Maxillary arch form

2013.01.05



Occlusal view Mandibular arch form

2013.01.05



Dr. D.



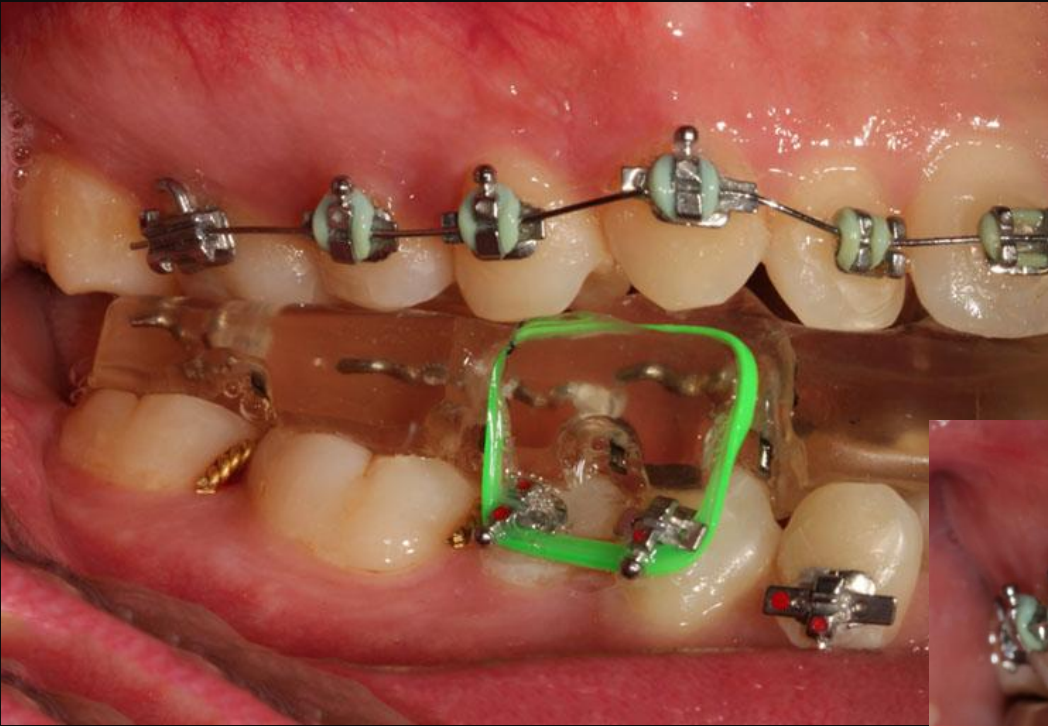
Facial midline
Maxillary
midline
Mandibular
midline &
Chin milline

2013.01.05

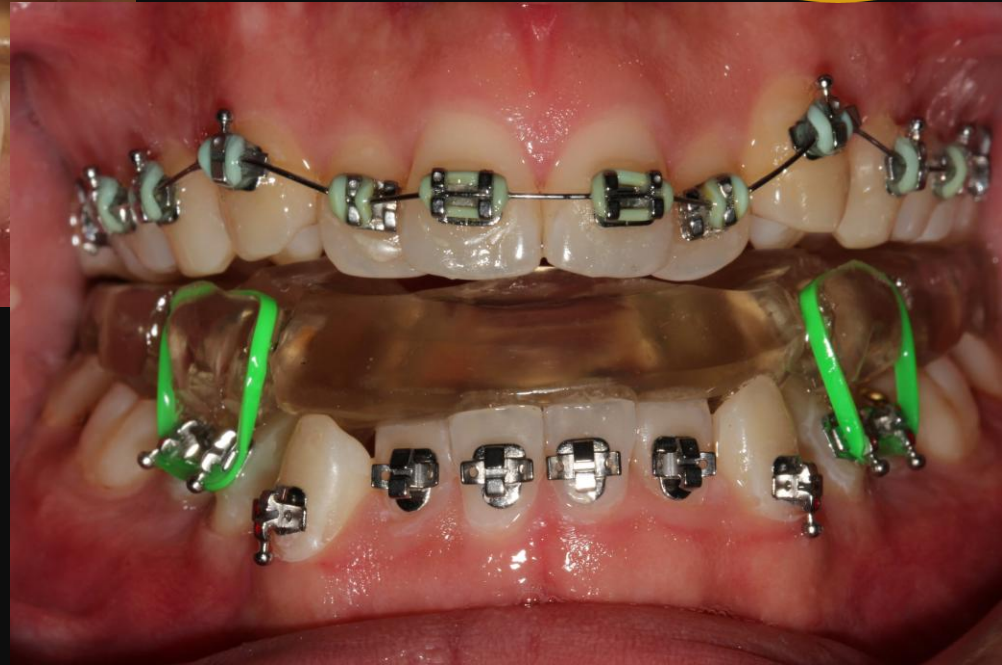


Initial Facial Photographs, Smile
and Profile 2013.01.05





Dr. D.

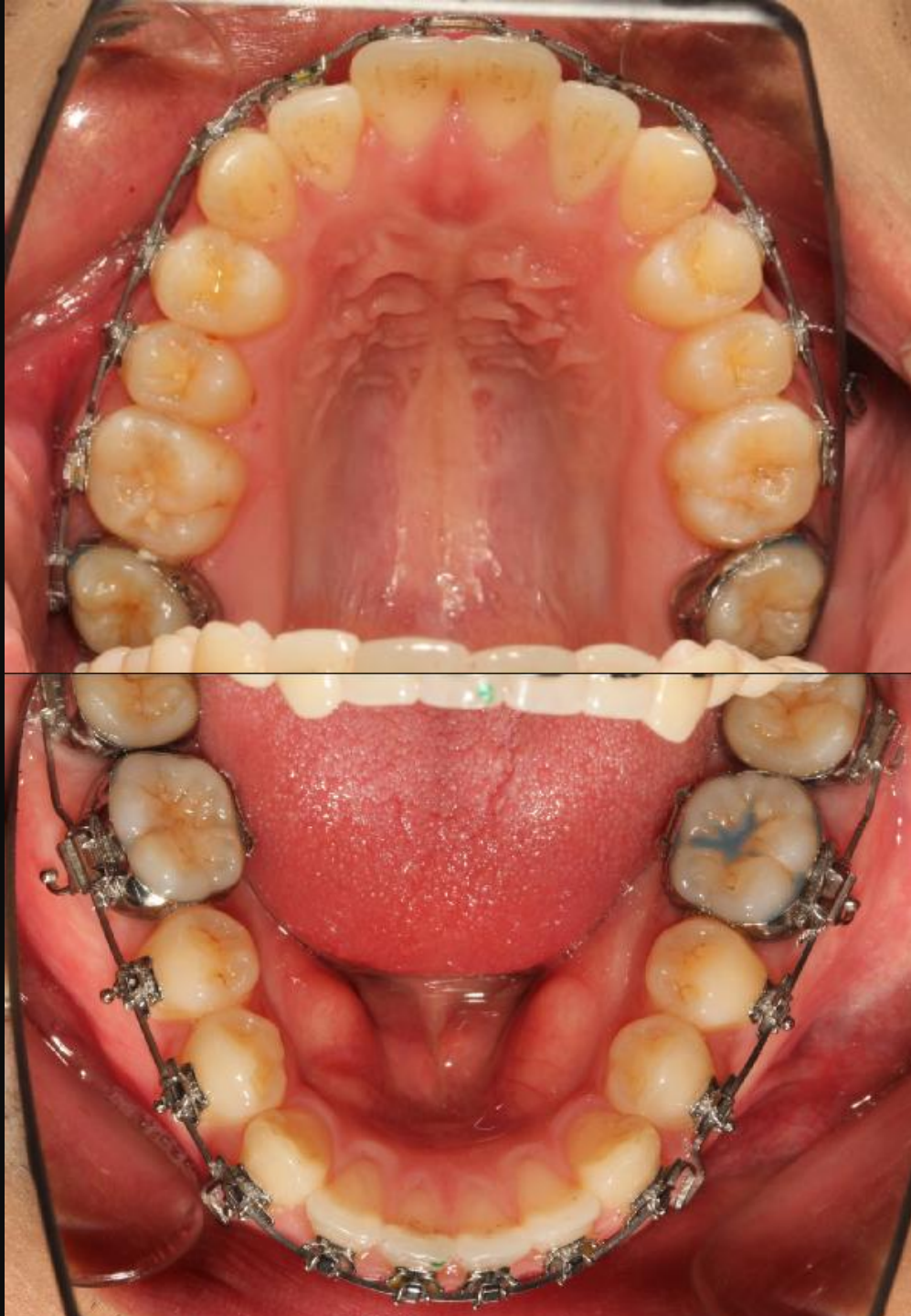


As treatment in the maxilla is going on, the Bangkok Splint is still in use to prevent recurrent of the "Clicking"



Presurgical
2014.01.10





Patient's Name: Dr. D.



Presurgical
2014.01.10

Patient's Name: Dr. D.



Presurgical
2014.01.10

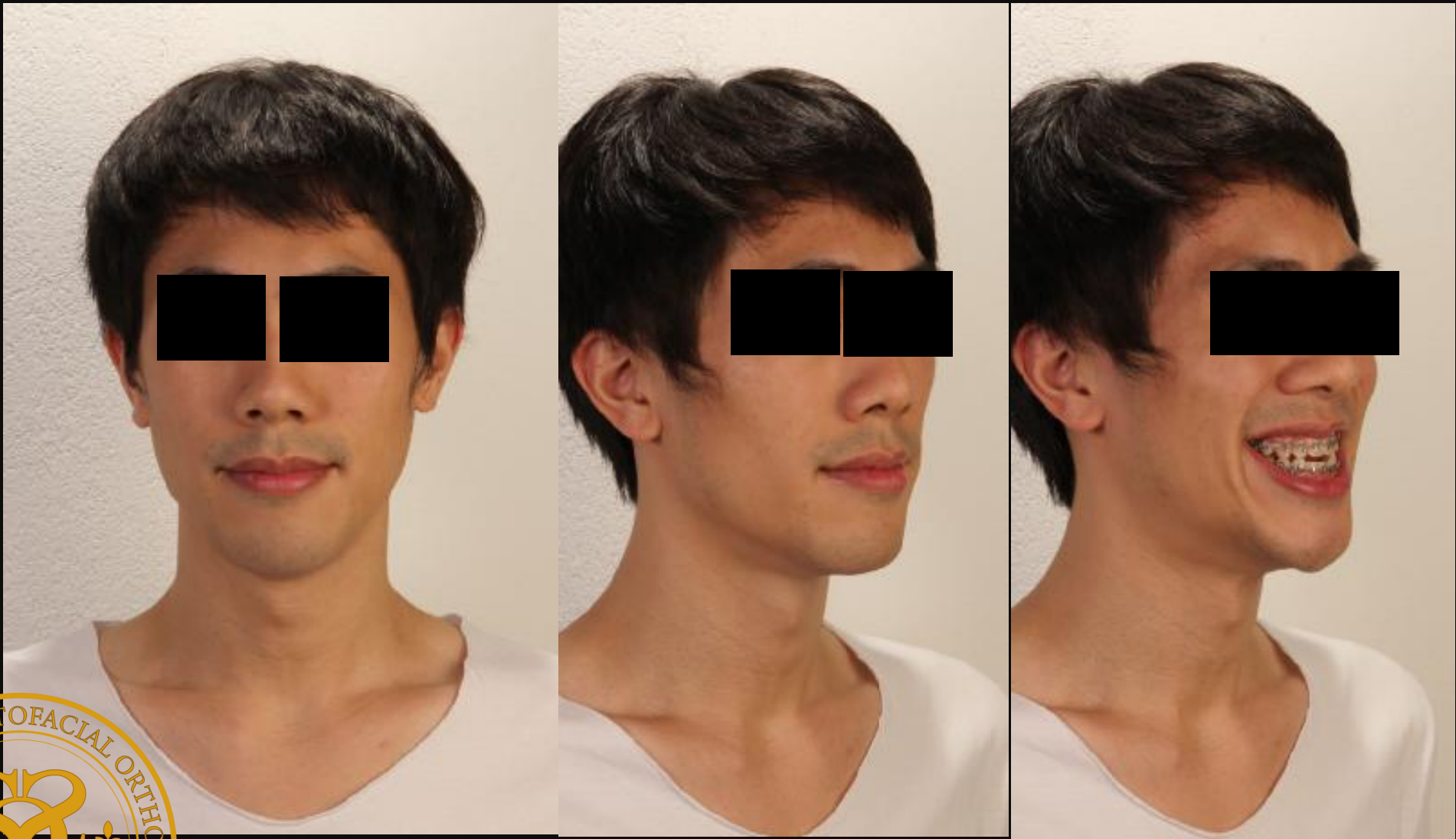


Patient's Name: Dr. D.

Presurgical Facial Photographs, smile and profile.

Note: Flat paranasal area, due to retrognathic maxilla, which maxillary advancement is indicated.





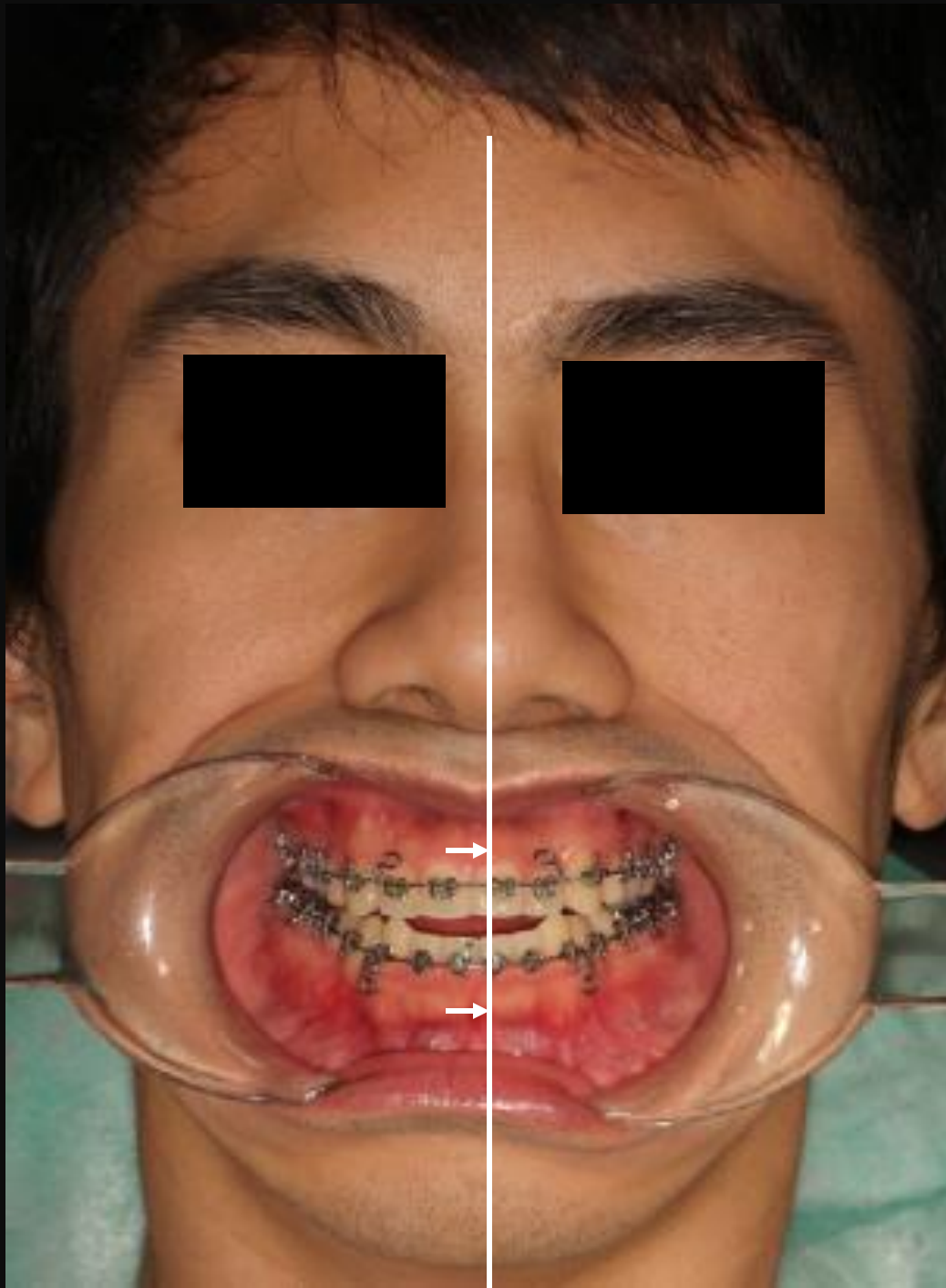
Patient's Name: Dr. D.
Presurgical Facial Photographs

2014.01.10



Presurgical Smile Photograph
to check smile line and the
amount of Incisor Show

Presurgical Evaluation
Sub-metal view to check
the symmetry and Nostril



Presurgical Evaluation

Patient's Name: Dr. D.

Check for Midline
coincidence:

Maxillary ML shifts 1
mm to the Rt.

Mandibular ML is al
most coincide with the
facial Midline

2014.01.10



Presurgical Evaluation
Patient's Name: Dr. D.
Occlusal canting
Rt. Side 1 mm down

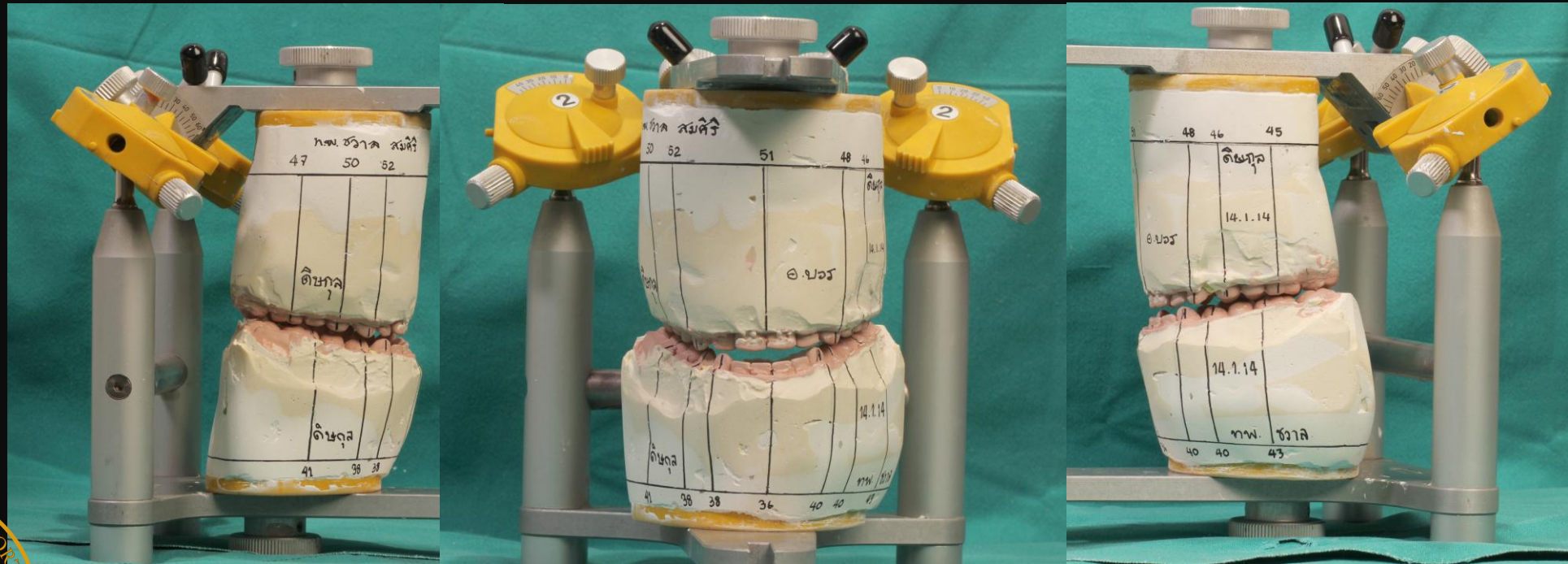
2014.01.10



Model Surgery
on SAM
Semi-adjustable Articulator

2014.02.08

Model Surgery on SAM articulator2

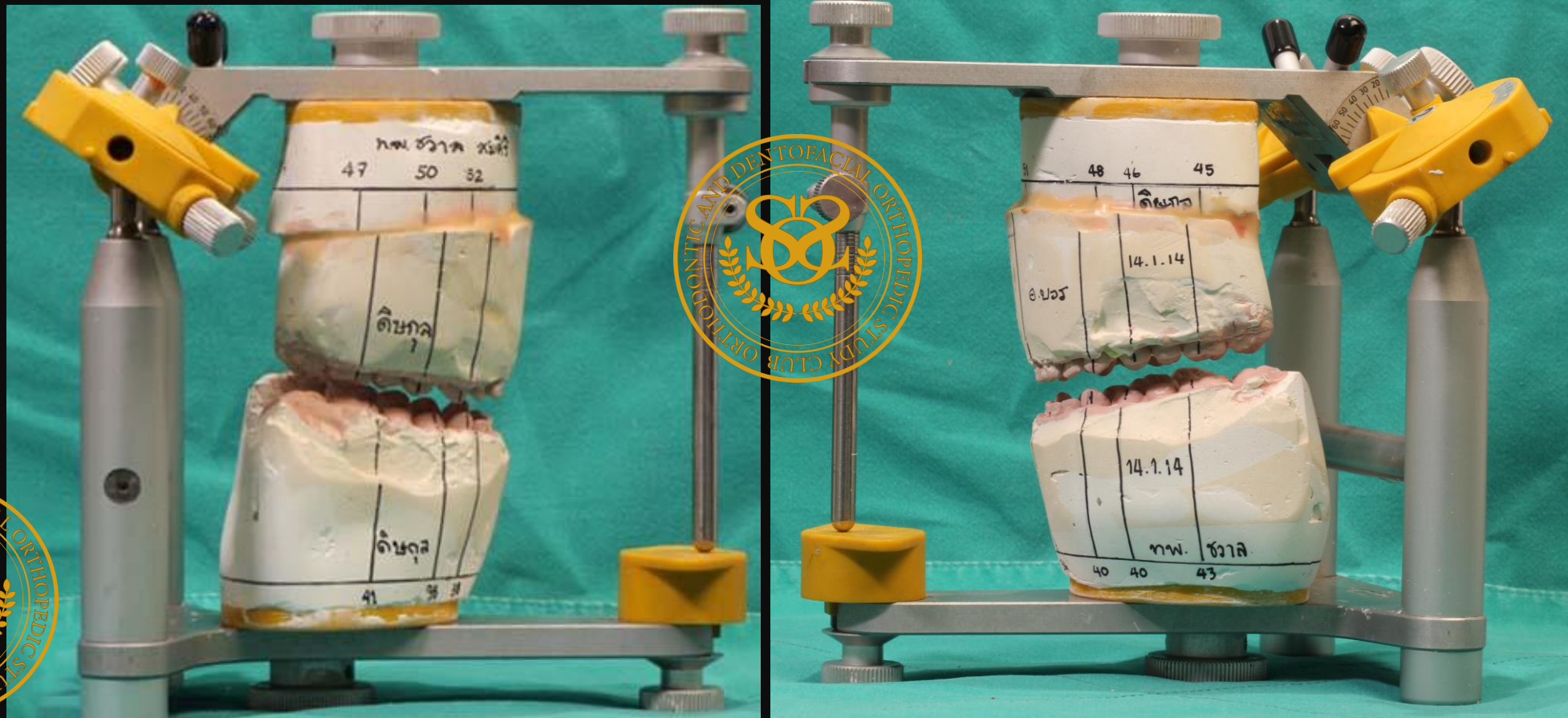


Horizontal and vertical reference lines were drawn



Model Surgery on SAM articulator

2014.02.08



Maxillary advancement and superior repositioning. The mandible is still intact.

Splint no. 1 to facilitate fixation
of the maxilla in the
predetermined position in 3
Dimensions with accuracy



2014.02.08

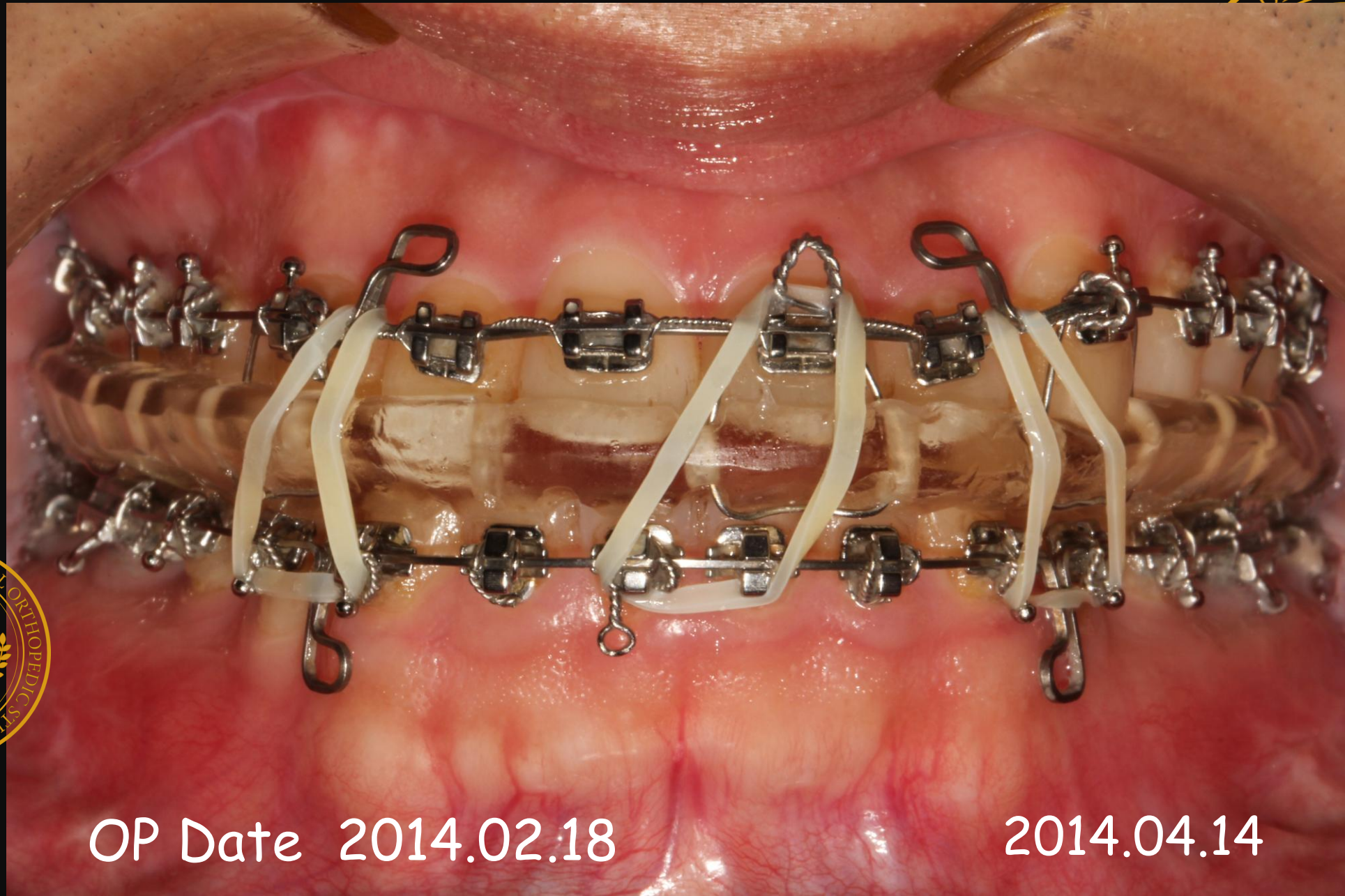


Splint no. 2 to facilitate fixation of the mandible to the maxilla in the overcorrected position to compensate the relapse



2014.02.08

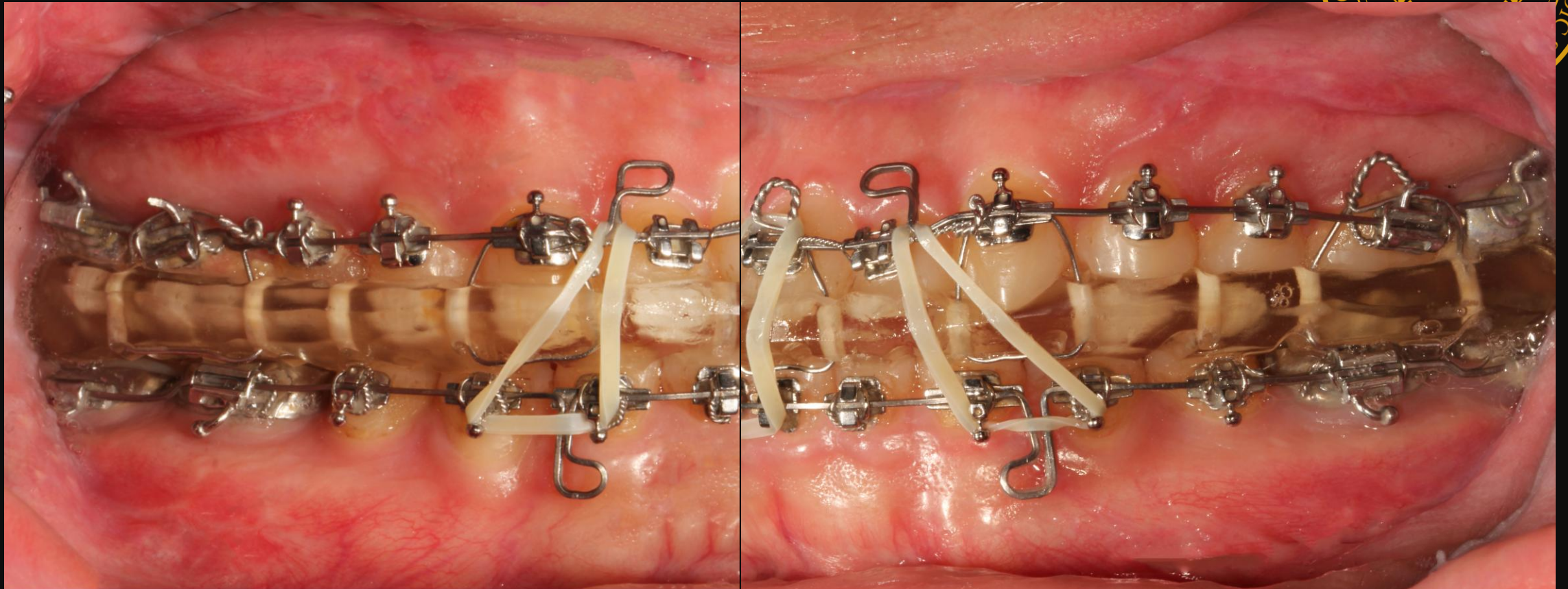
Post-surgical Evaluation Patient's Name: Dr. D.



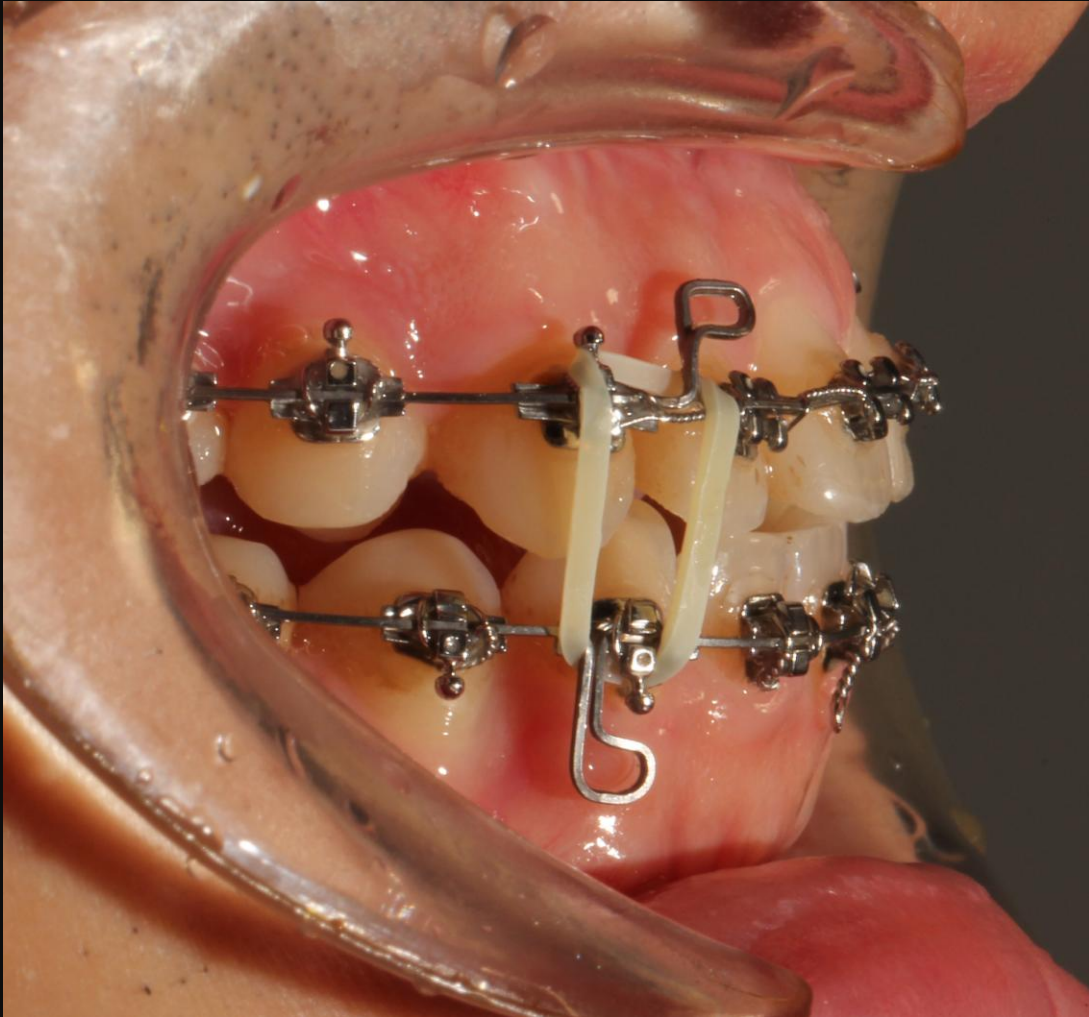
OP Date 2014.02.18

2014.04.14

Post-surgical Evaluation Patient's Name: Dr. D



2014.04.14



Post-surgical
Photograph
Sagittal view show
the amount of
over-correction,
which is partially
relapse as planned

2014.04.14



Fine tuning
of the
molar#26
occlusion:
The molar
out bend,
curvature
and toe-in

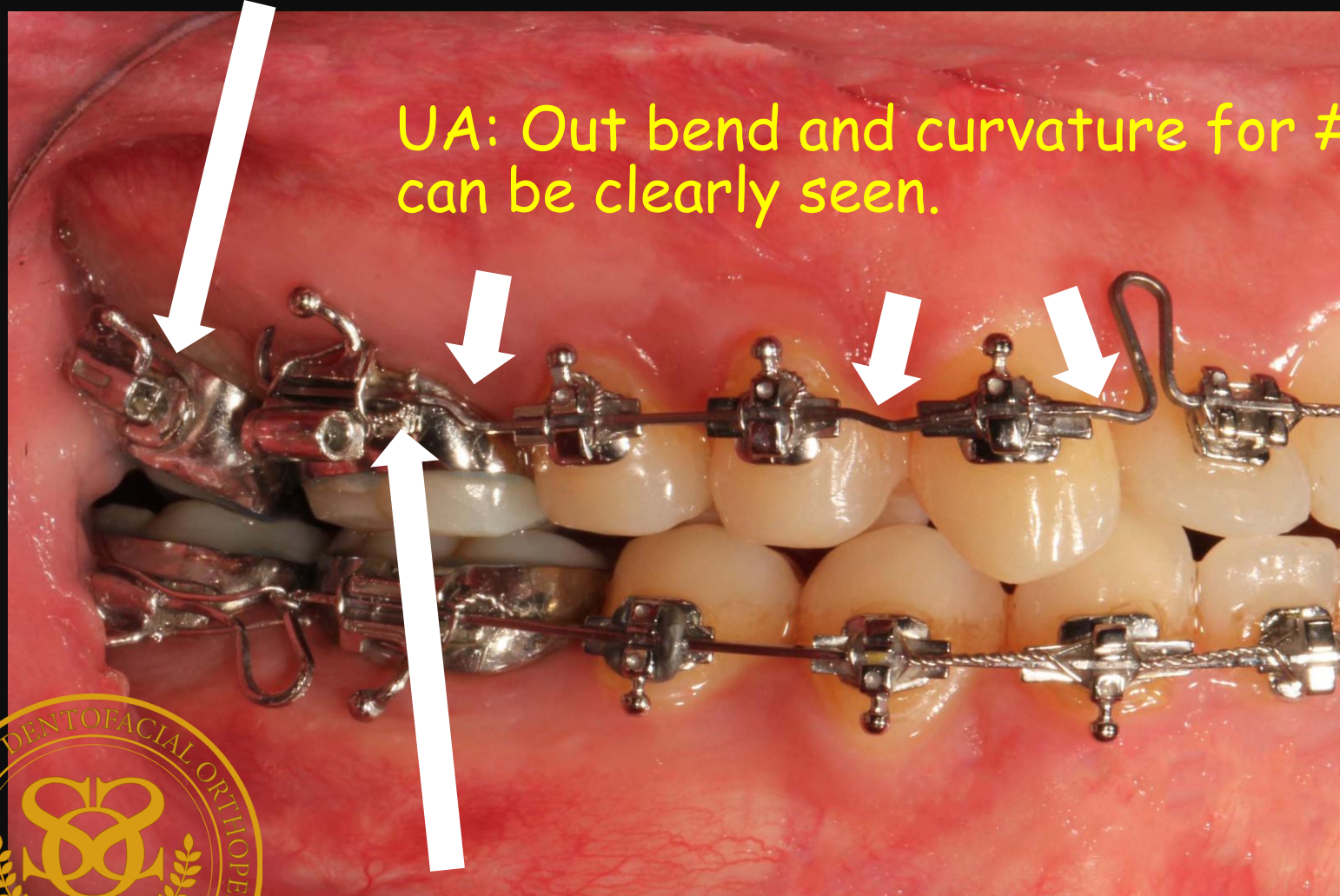




Palatal attachment is bonded on the molar #16 for criss-cross elastics. The molar out bend, curvature and toe-in are also be seen



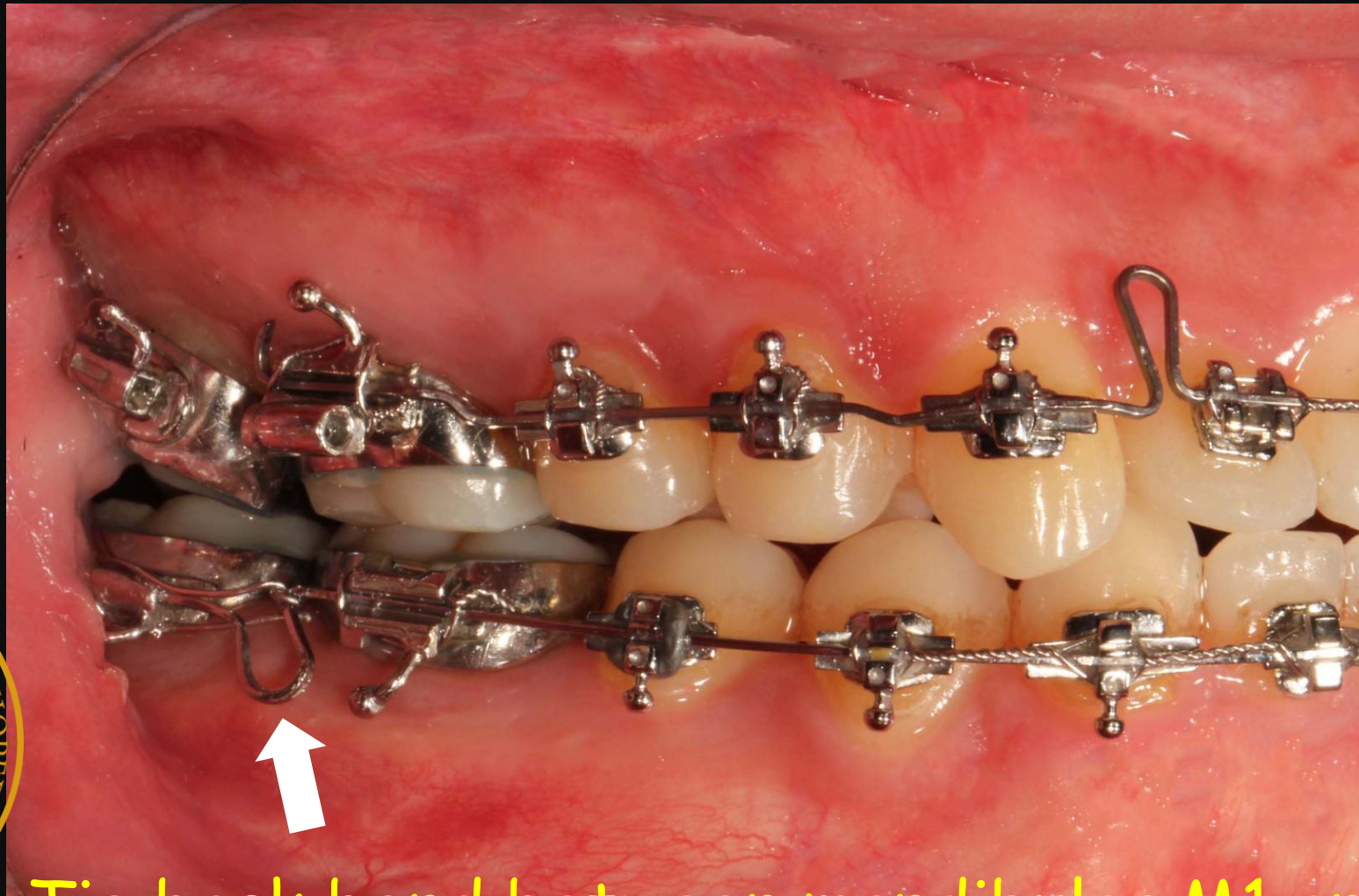
UA: M2-17 is disengaged for self settling.



UA: Out bend and curvature for #13, 14, 16 can be clearly seen.

Intrusion for 16 for marginal ridge adjustment and to prevent molar fulcrum





LA: Tie back bend between mandibular M1 and M2 are incorporated into the arch wire to consolidate the mandibular dentition and keep the contact point tight.

Patient's Name: Dr. D.
Lateral excursion (side shift)

2015.03.21



Bilateral Symmetrical Canine
Guidance achieved

9 months Post surgery Final Intraoral photographs



2015.07.11



Frontal view show Midline coincidence



Sagittal view
show proper
interincisal
angle



2015.07.11

9 months Post surgery
Final Intraoral photographs



9 months Post surgery Final Intraoral photographs



Lateral view show Class I molar
and canine relationship



2015.07.11

Patient's Name: Dr. D.
Lateral excursion (side shift)



Bilateral Symmetrical Canine
Guidance

2015.07.11

Maxillary Occlusal view



2015.07.11



Mandibular Occlusal view



2015.07.11



2015.07.11

Final
Photographs





9 months Post surgery
Final Intraoral photographs

2015.07.11



CASE COMPARISON

2013.01.05

2015.07.11

CASE COMPARISON



2013.01.05



2015.07.11



CASE COMPARISON



2013.01.05



2015.07.11



CASE COMPARISON



2013.01.05



2015.07.11



CASE COMPARISON



2013.01.05



2015.07.11

CASE COMPARISON

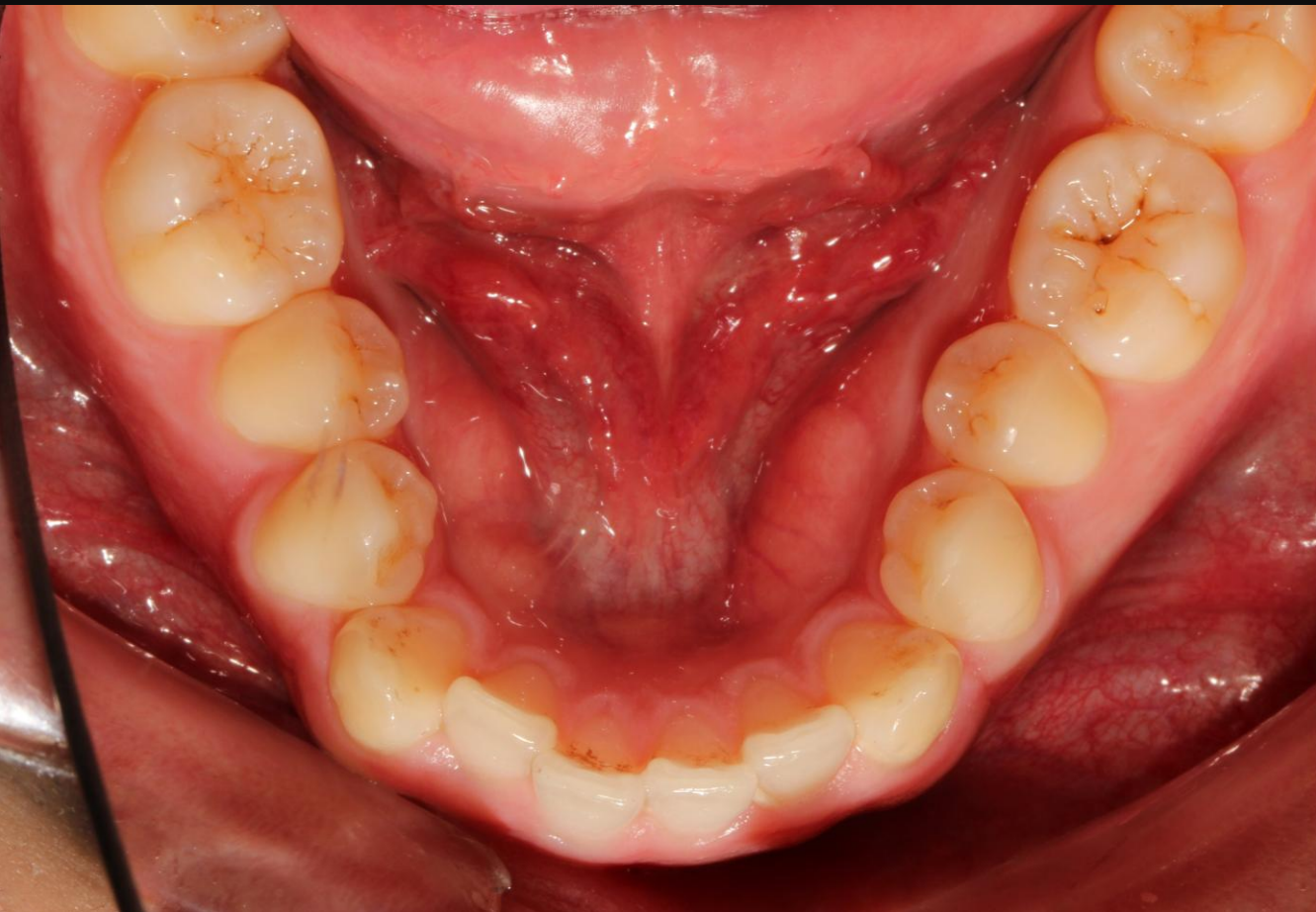


2013.01.05



2015.07.11

CASE COMPARISON



2013.01.05



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2015.07.11



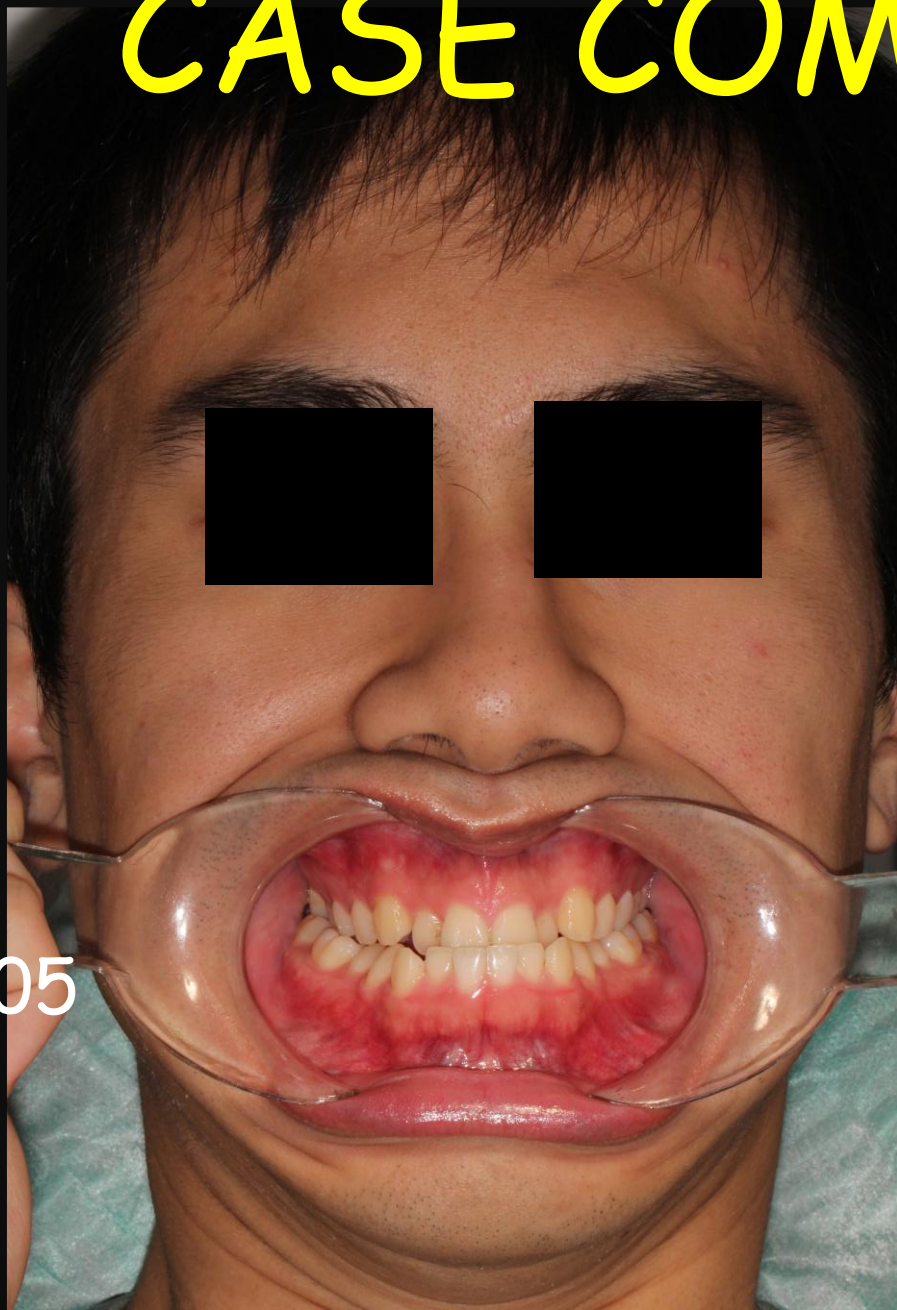


2013.01.05



2015.07.11

CASE COMPARISON



2013.01.05



2015.07.11



CASE COMPARISON



2013.01.05



2015.07.11



Treatment results
see Dr. Somsiri's

"The 10 Commandments"

The Orthodontic and TMD Center

Full Course Dentofacial Orthopedic-Orthodontic
and TMD Treatment

Contact us:

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Max. Facial Surgeon: MU by Dr., Dr. Boworn 2014

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