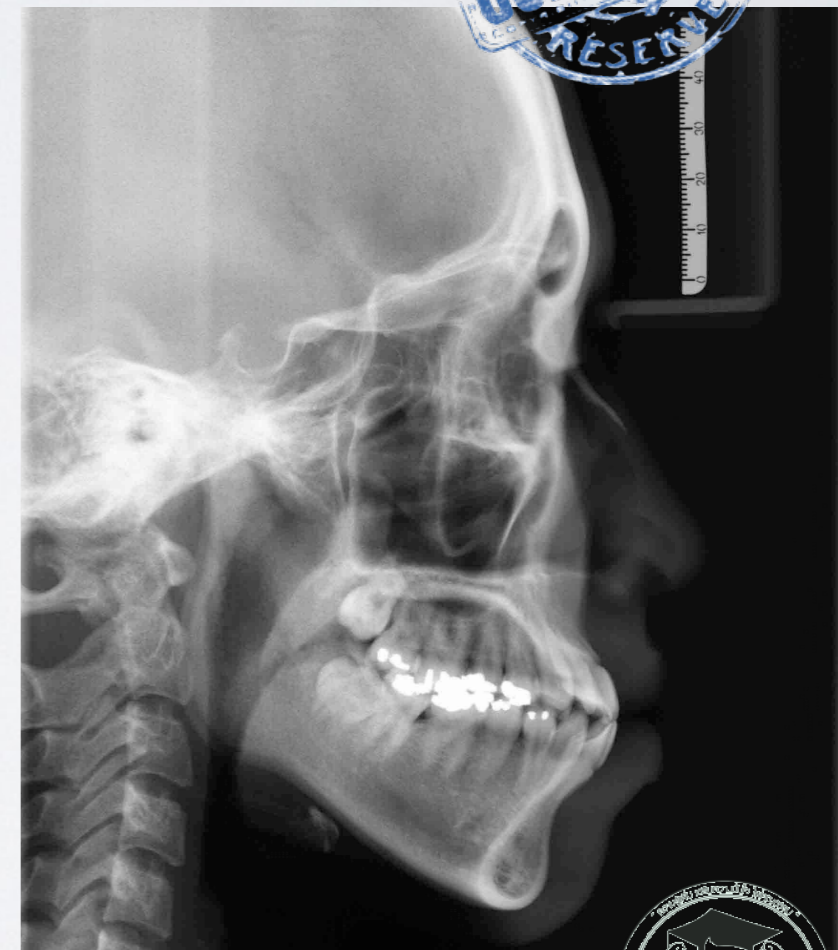
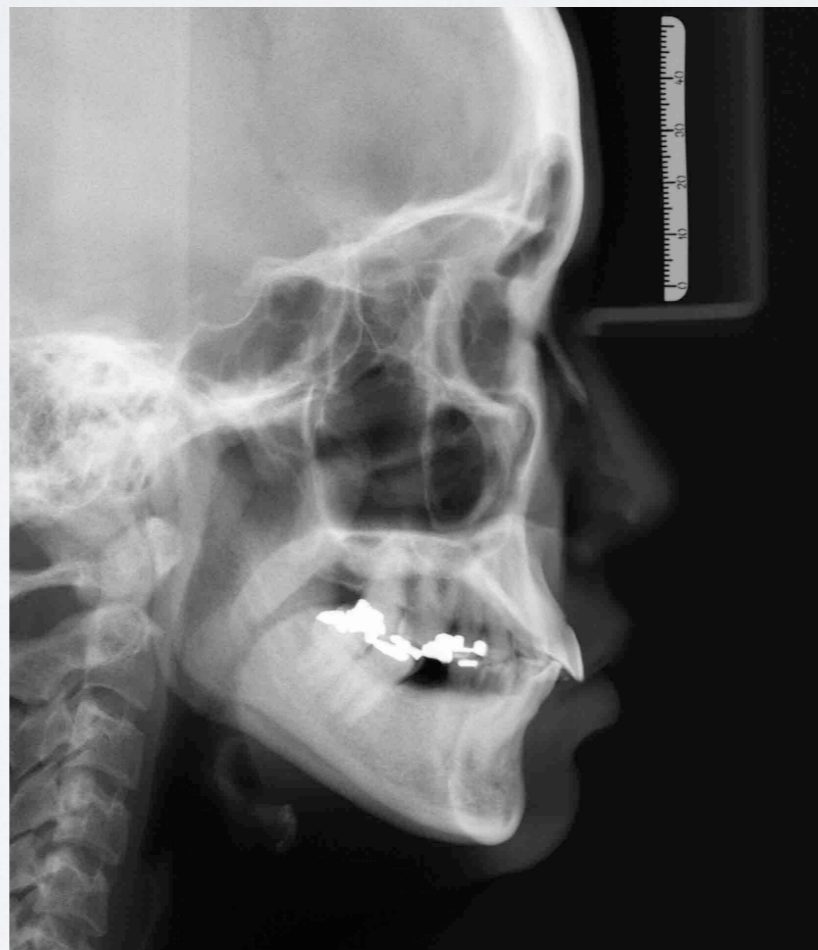


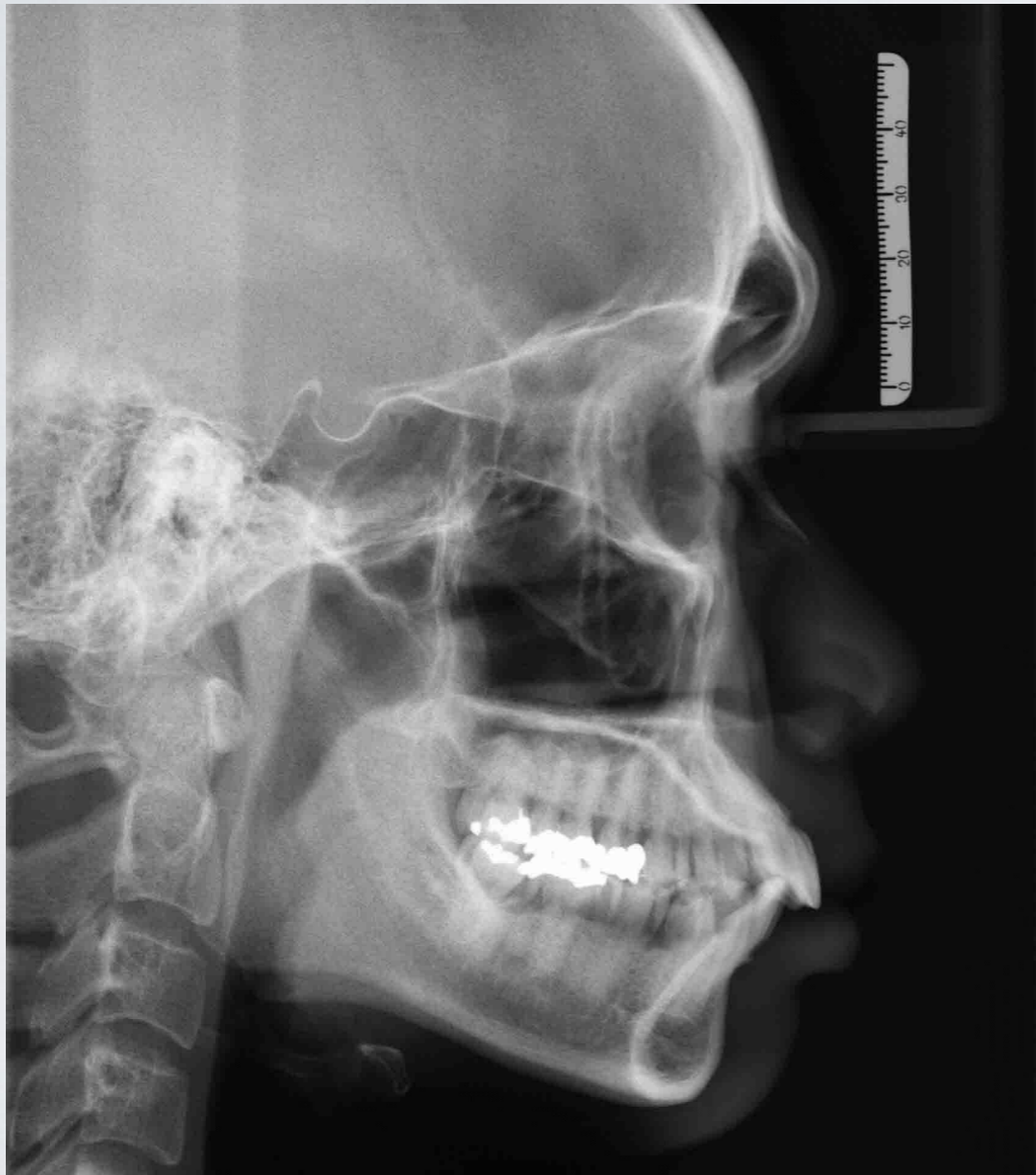
# RADIOGRAPHIC CEPHALOMETRY



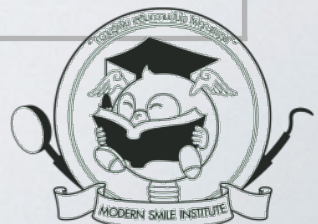
Diagnosis & Treatment Plan



# Film Quality

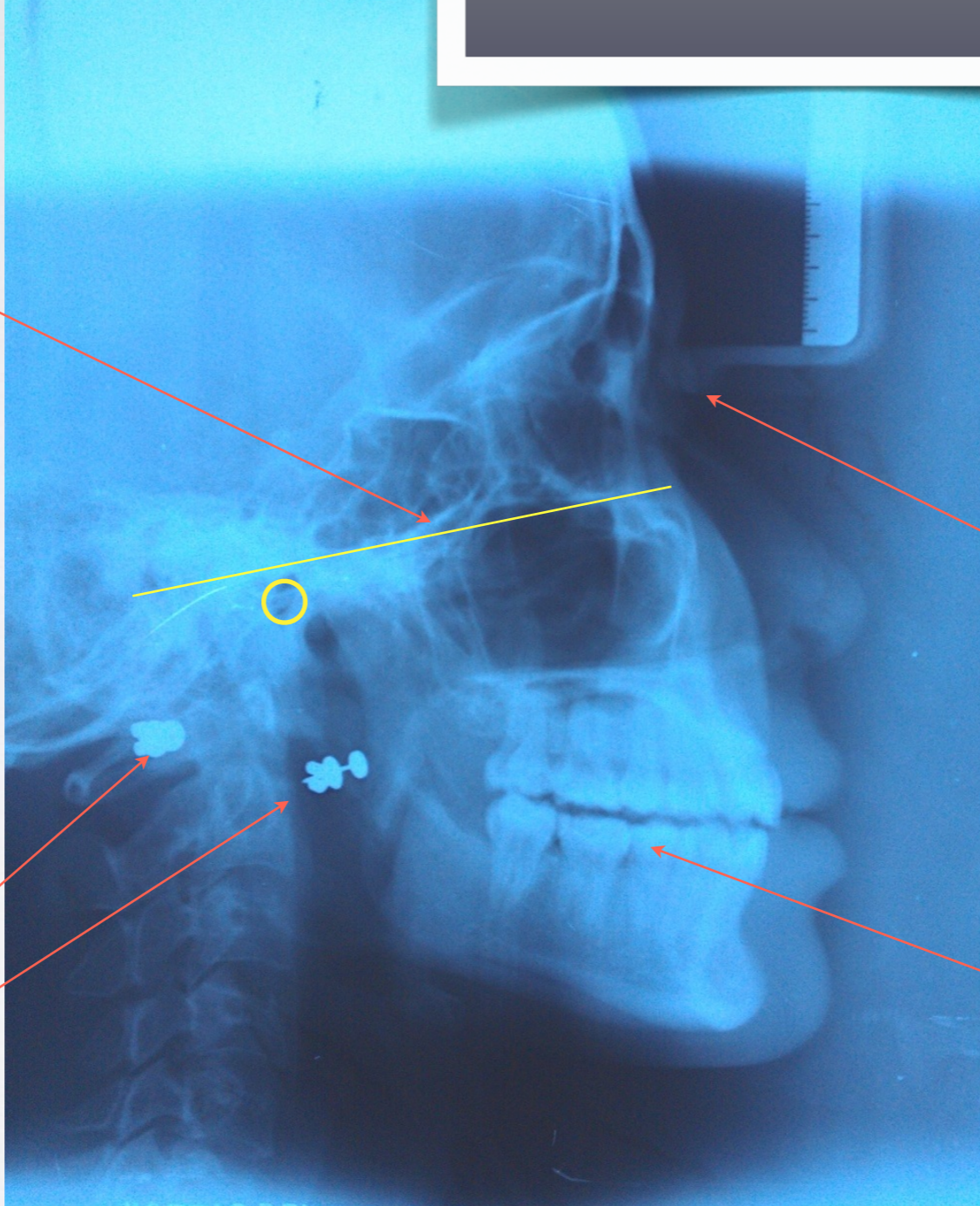


Head position	FH plan parallel to floor
Lip position	Relax
Tongue position	Against palate
Cervical bone	C1-C4 Coverage
Soft tissue	Identifiable
Hard tissue	Identifiable
Accessories decoration	None
Physical quality	No scratch, Chemical contamination, etc.
teeth Intercusption	Maximum (CO)





# Film Quality

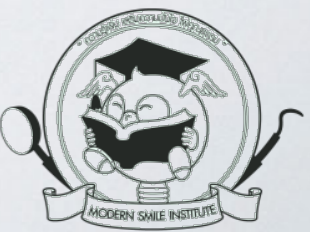


Tilted Head position

Unclear soft tissue

mouth opening

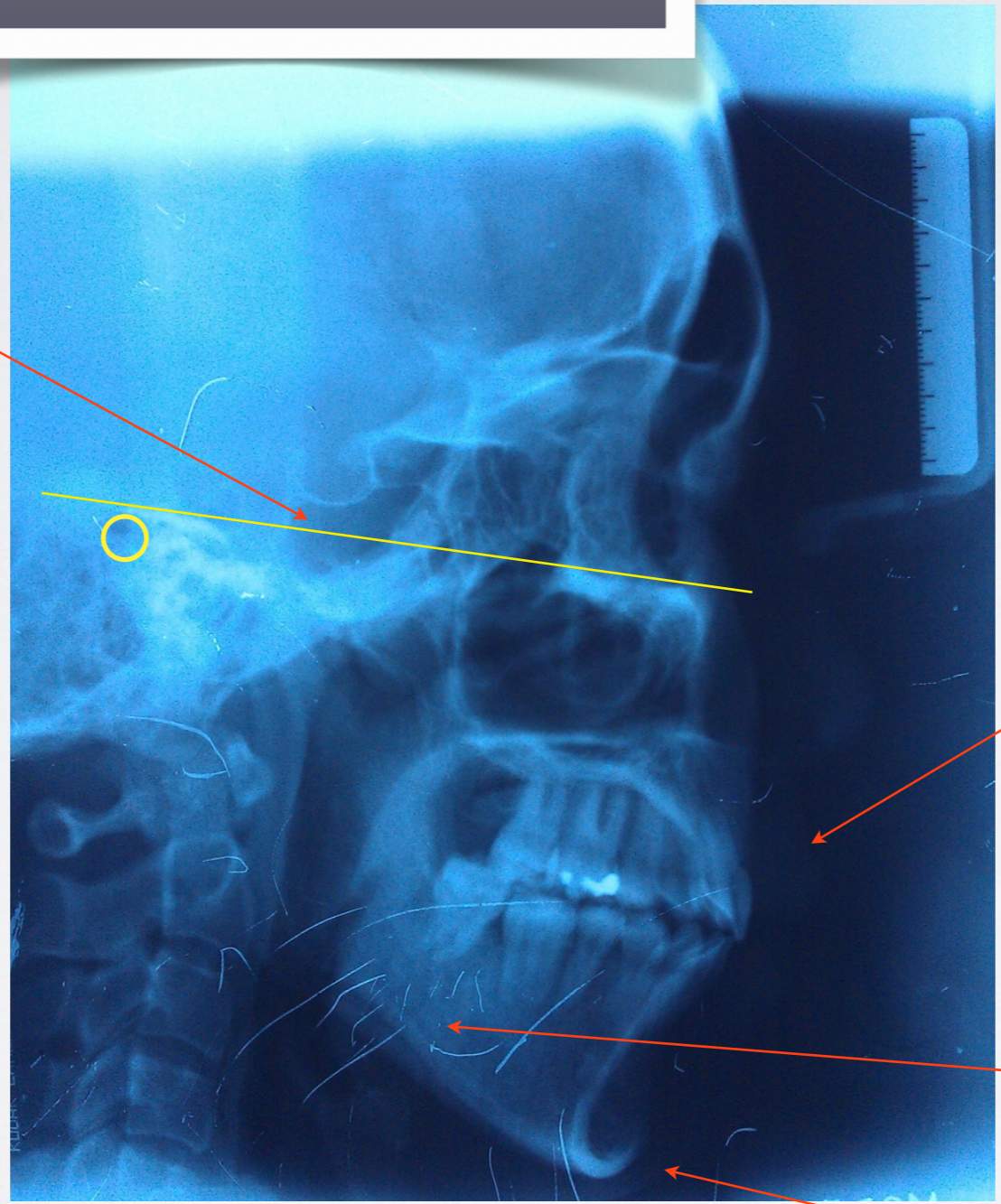
Earrings





# Film Quality

tilted Head position



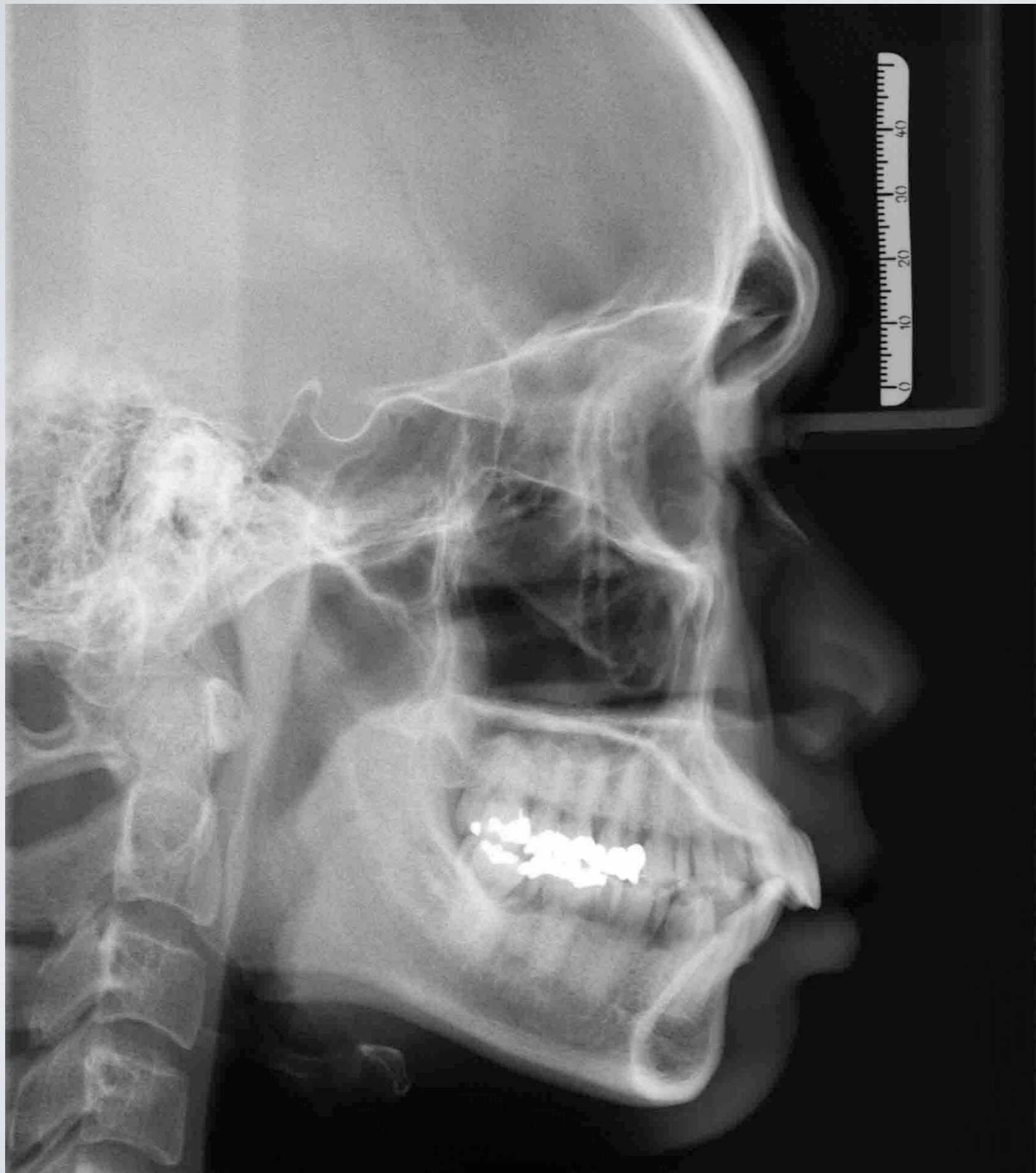
unclear Soft tissue

scratch

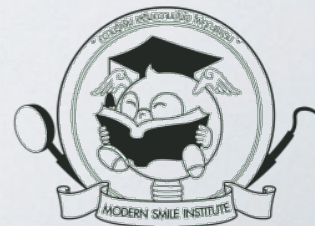
missing Chin soft tissue

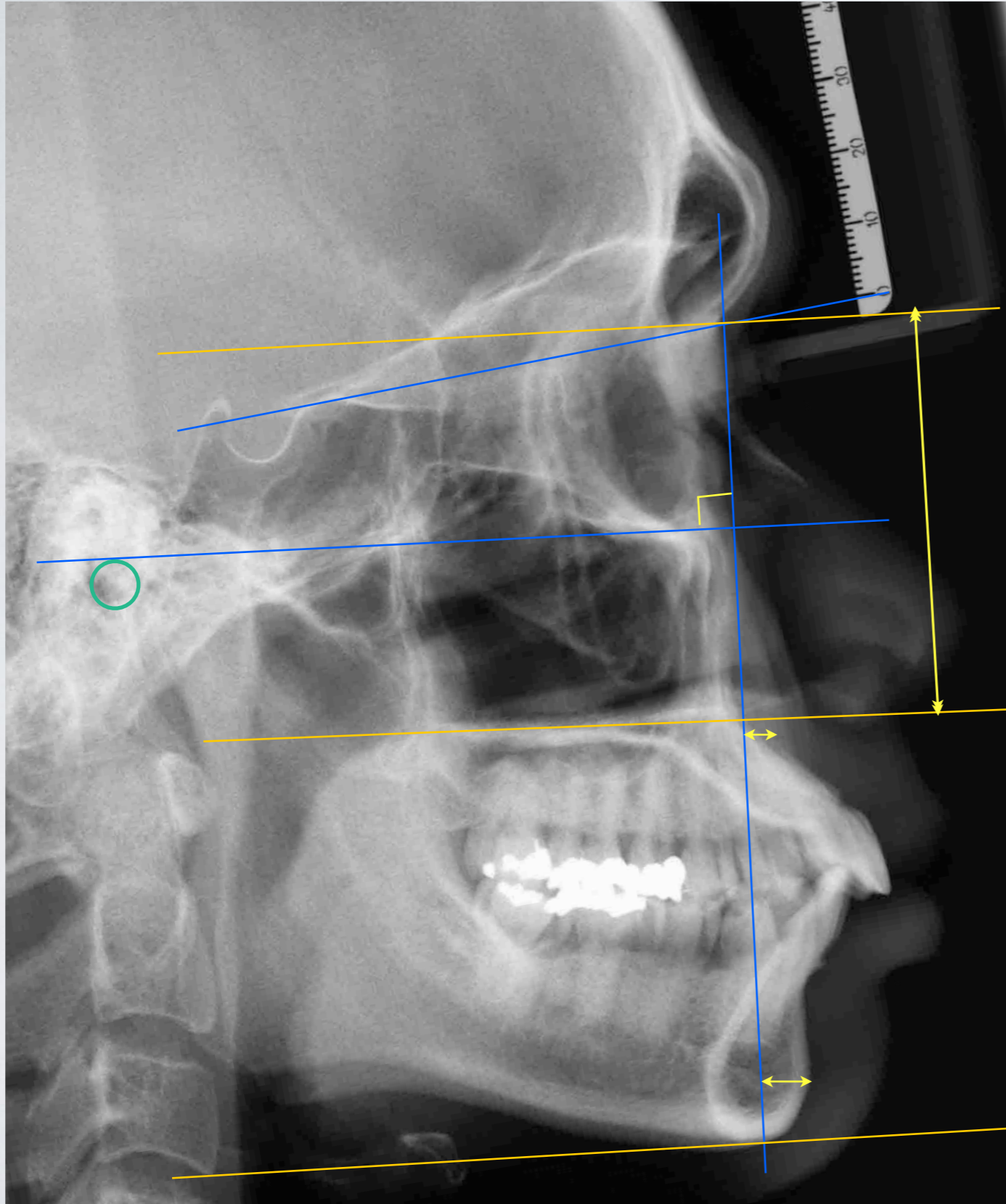






**What  
information  
can be  
obtained  
from a lateral  
or frontal  
cephalometri  
c head film ?**





# Skeletal

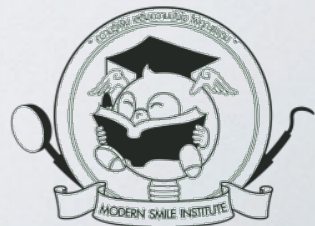
## AP PLANE

Maxilla : relatively large and too far forward

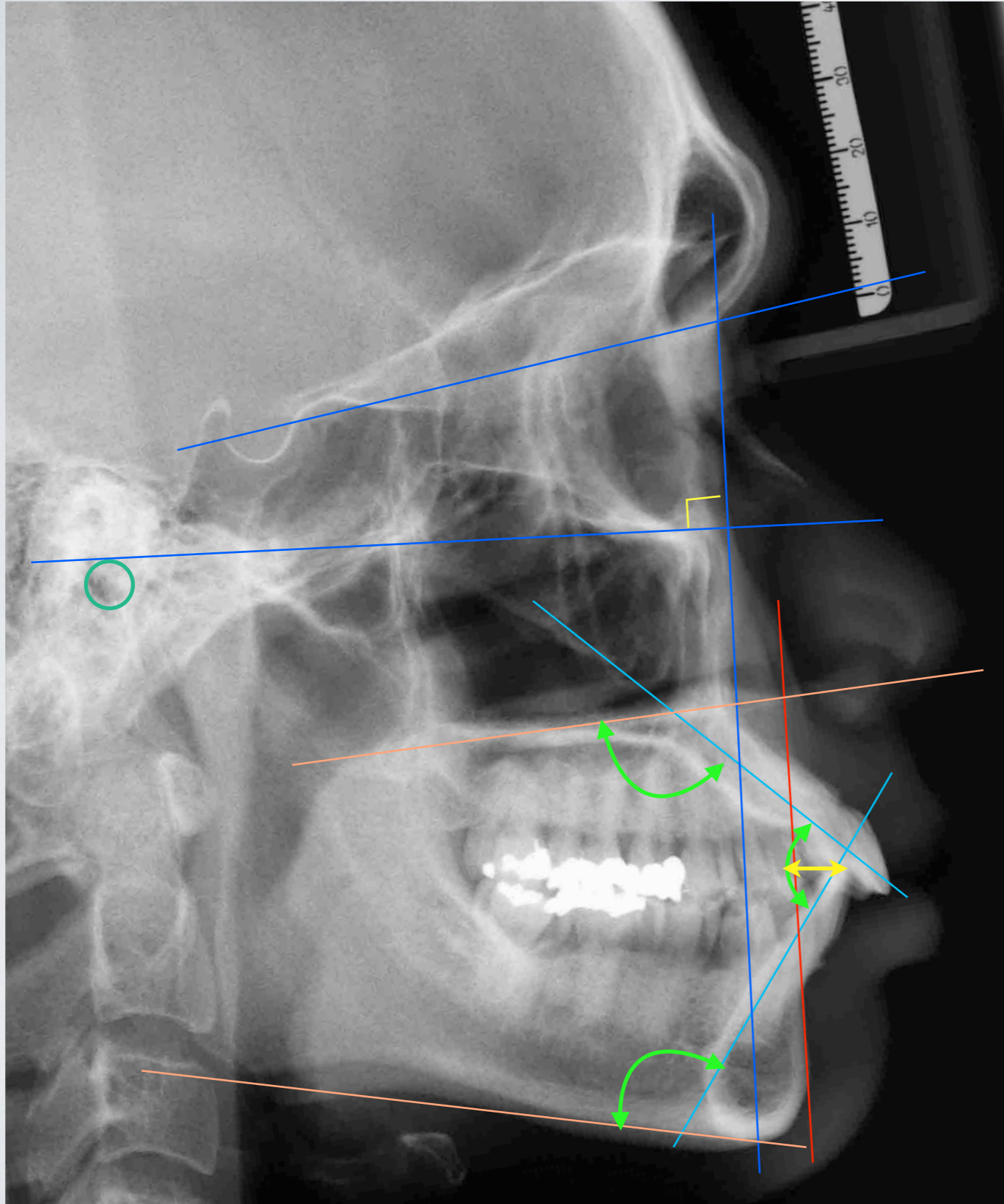
Mandible : relatively large and too far forward

## Vertical PLANE

LAFH:UAFH seem normal



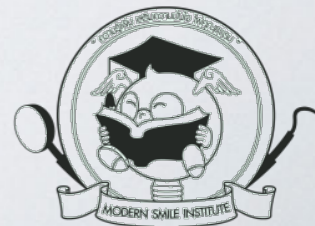




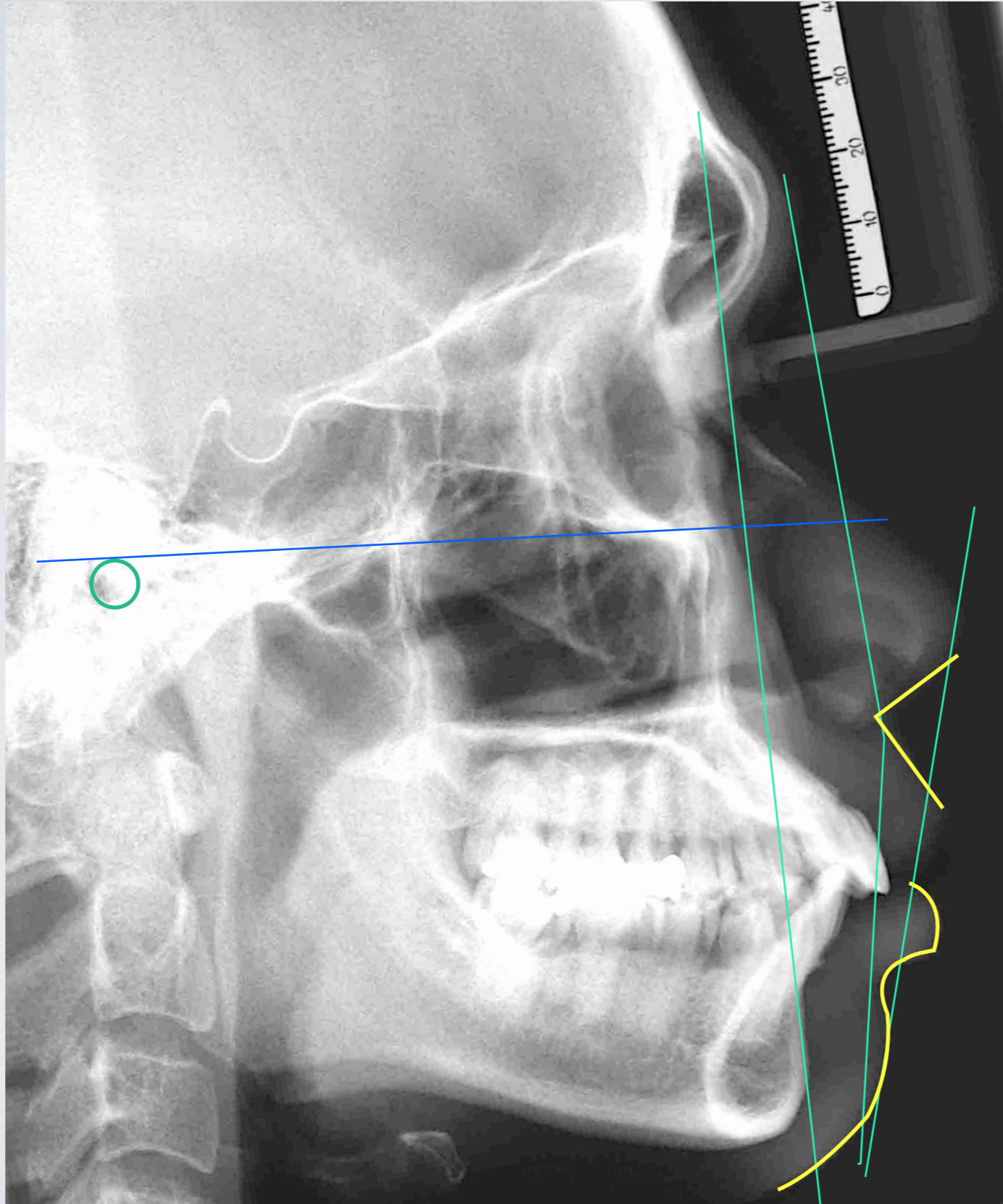
# Dental

**AP PLANE** : Excessively Proclined max and mand incisors

**Vertical PLANE** : POVD is too low  
( UADH UPDH LADH )



# Soft tissue



## AP PLANE

**Profile:** -Convex, Prognathic

**Naso-labial angle:** Increased Naso-labial angle

**E-Line:** Protruded lips

**Thickness of the lips:** Thick

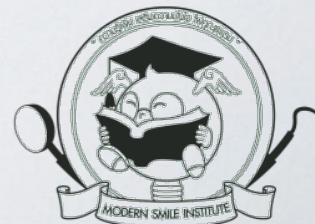
**Lower lip:** everted

**Labio-mental sulcus:** Deep

**Vertical PLANE :** LAFH

G-Sn-Me'

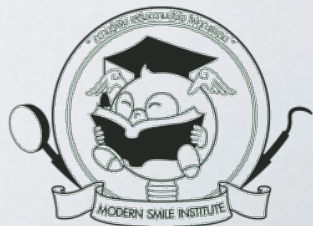
\Sn-tSs/StiMe'





## WHY IS CEPHALOGRAM ESSENTIAL TO DIAGNOSIS AND TREATMENT PLAN

- Limitation of **Dental Casts** to classify malocclusion
- Limitation to identify the abnormal **parts of facial complex**( Max, Mand, Combination)
- Limitation of the **profile classification** (convex, concave, retrognathic, prognathic)



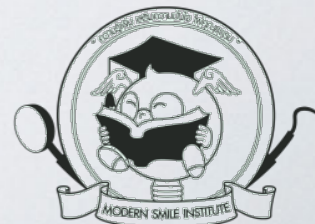
# LIMITATION OF DENTAL CASTS TO CLASSIFY MALOCCLUSION

Drifting to adjacent teeth to extraction space

Extracted teeth in the buccal segment

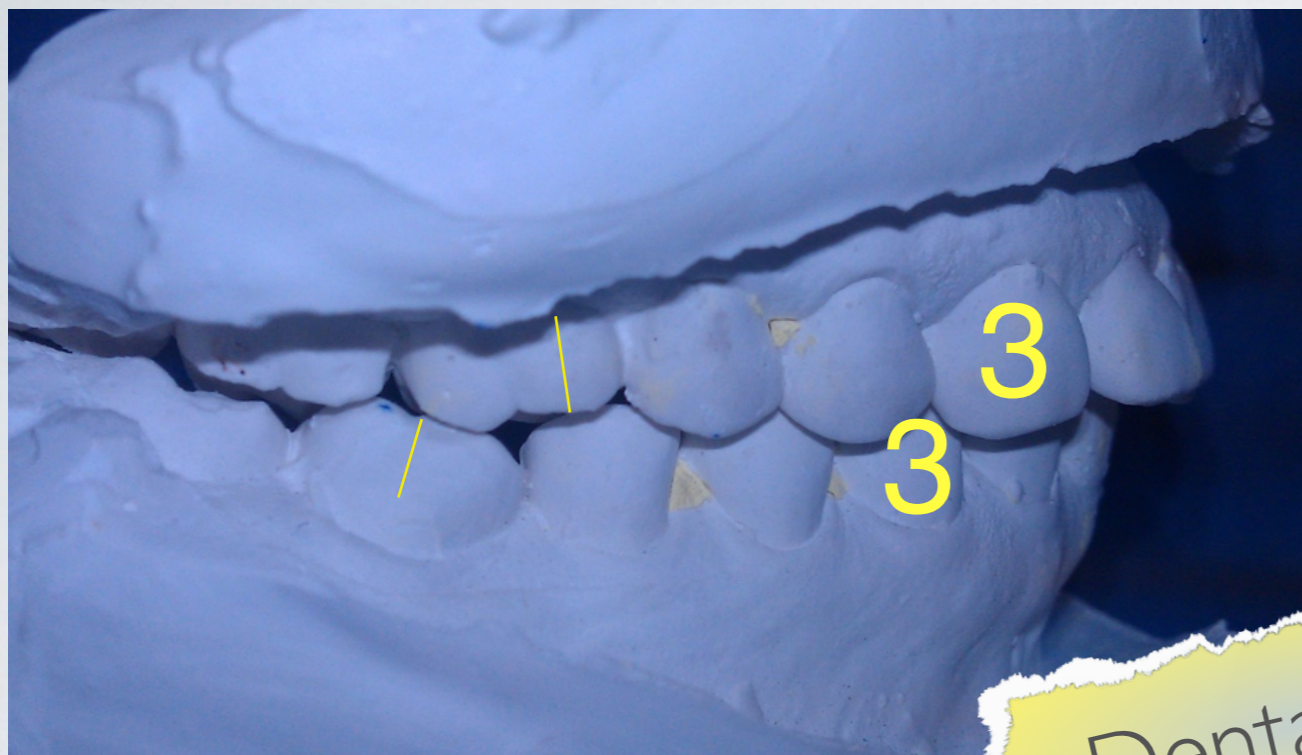
Trimming Technique

Tooth interferences resulting from drifting of adjacent teeth causing sliding of the mand





# LIMITATION OF DENTAL CASTS TO CLASSIFY MALOCCLUSION

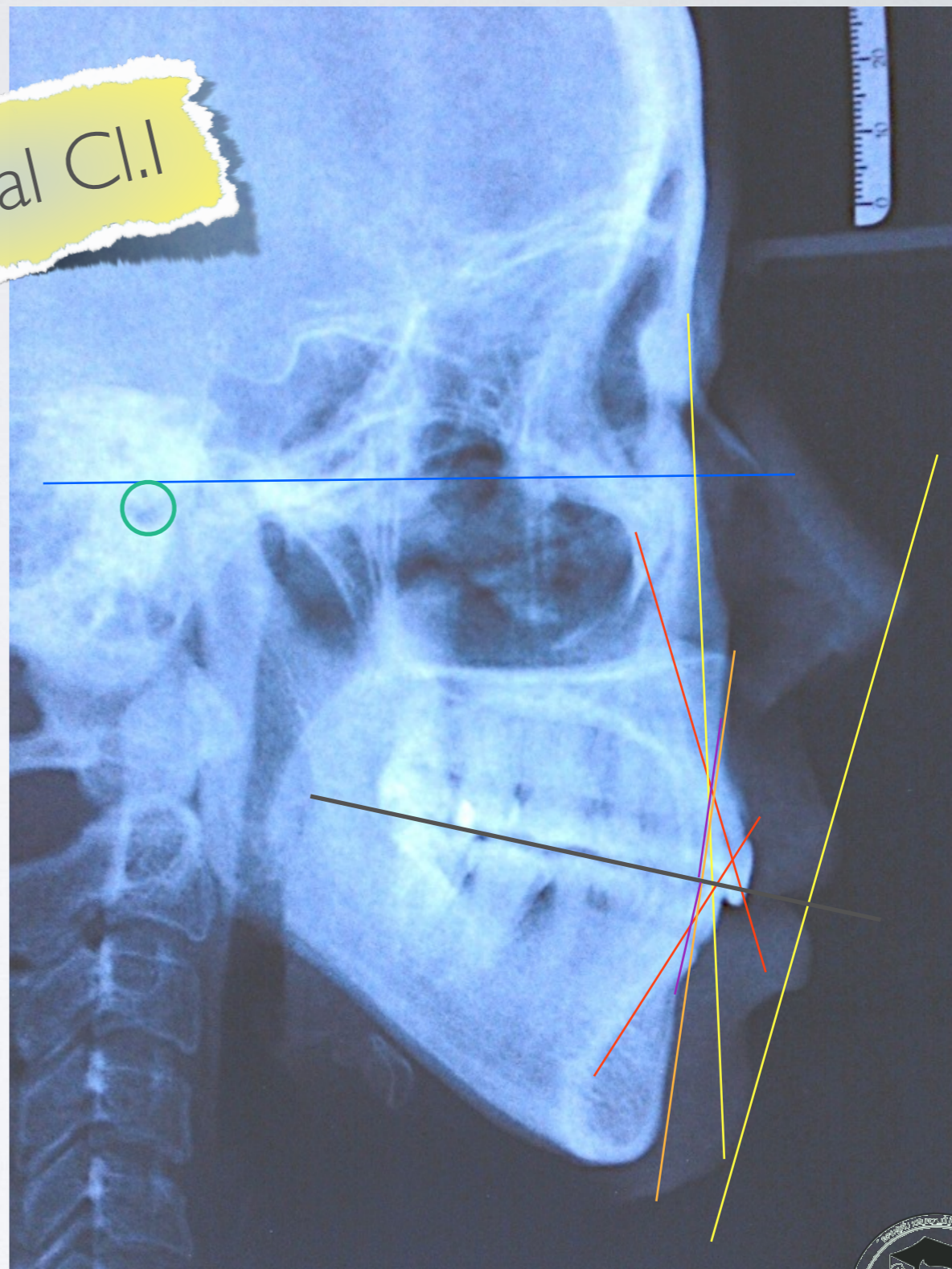
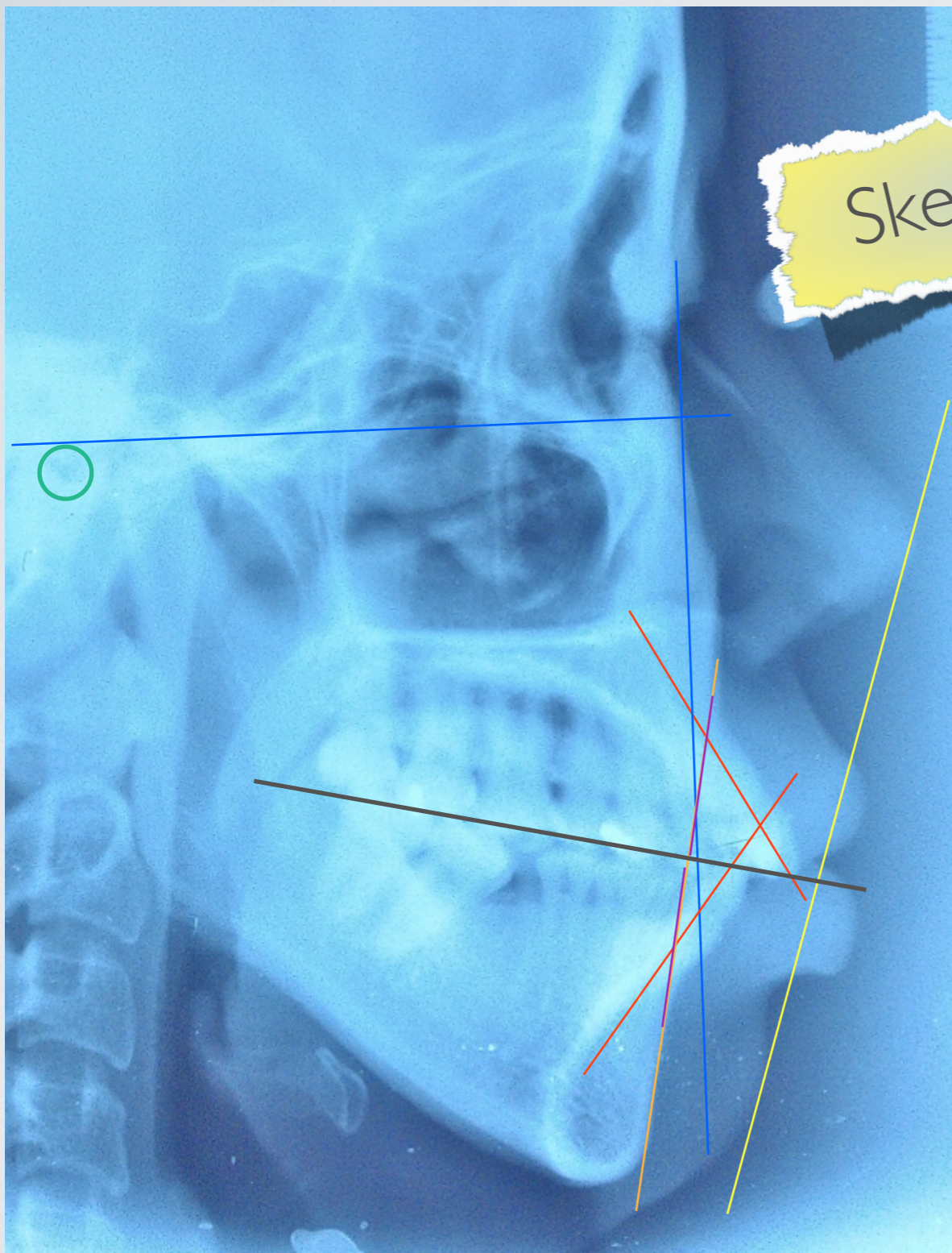


Dental CI.II

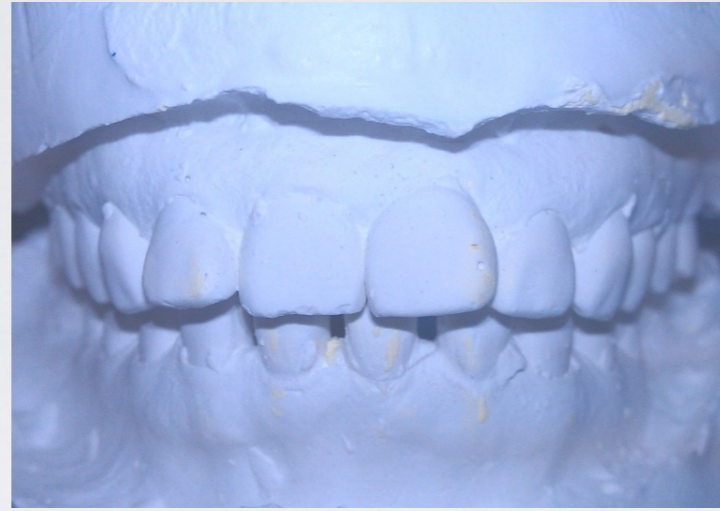




Skeletal C.I.I







เสาวณีย์ ศรีดำรงค์พร 52-0674

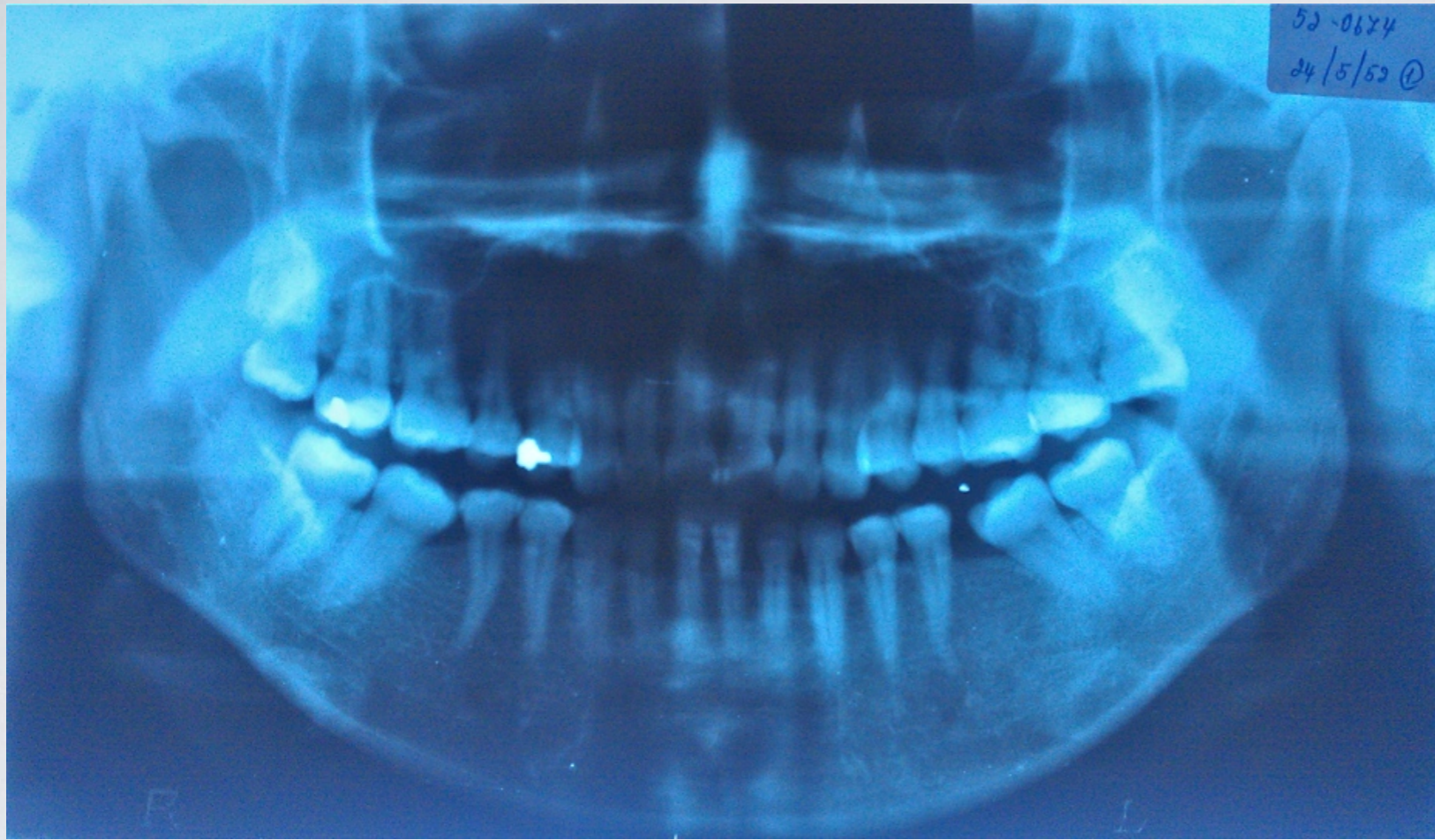




เสาวณีย์ ศรีดำรงค์พร 52-0674

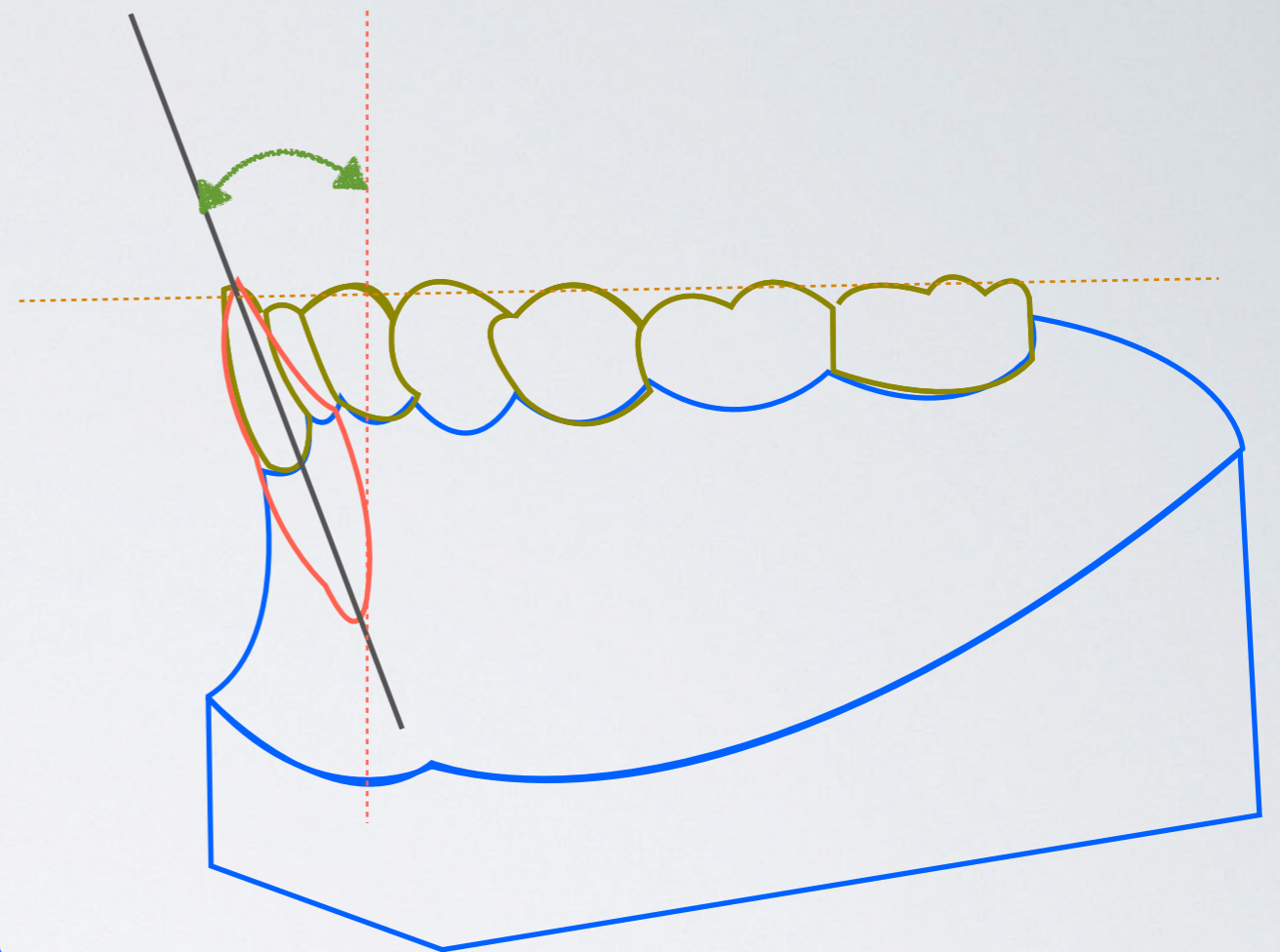
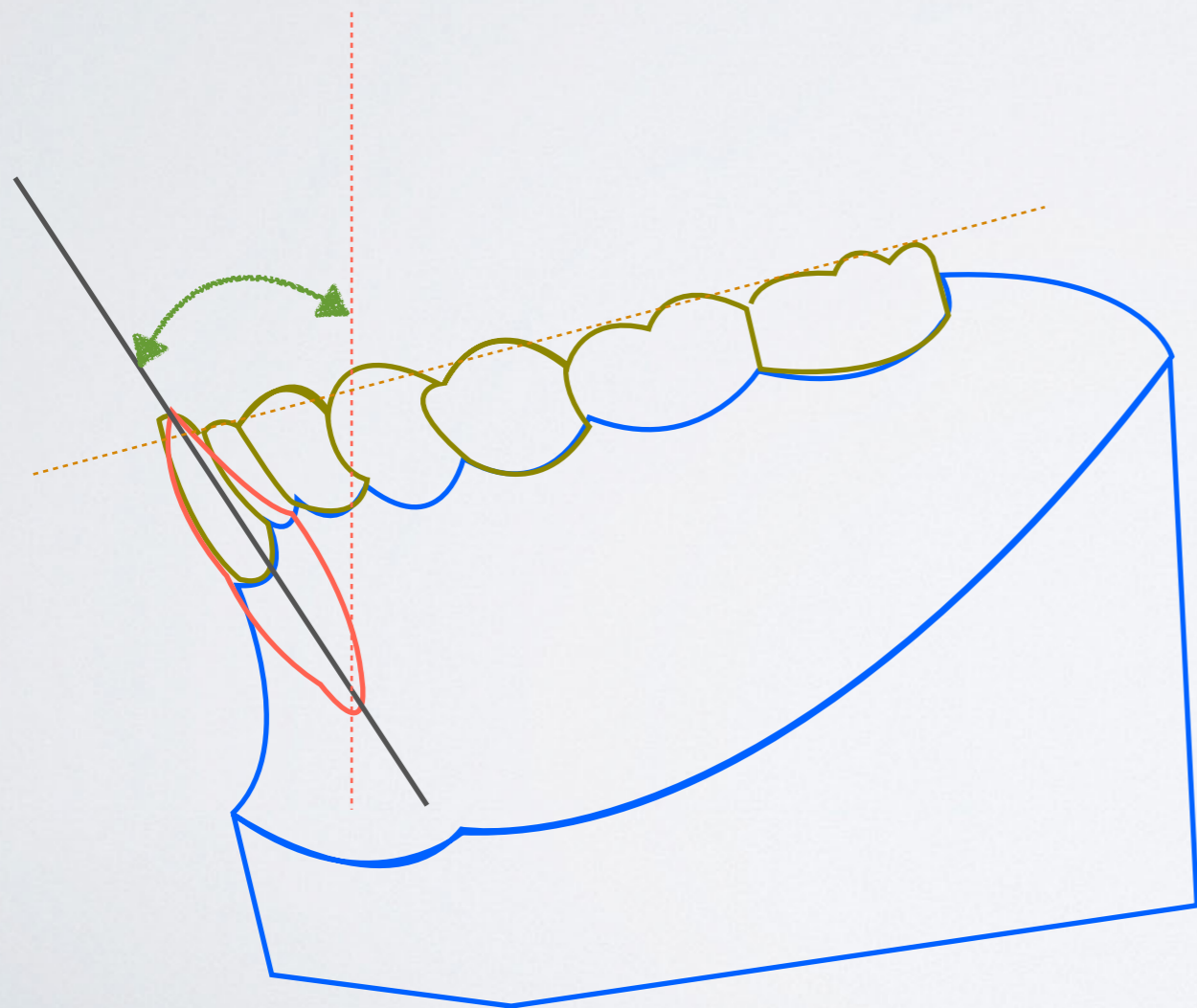




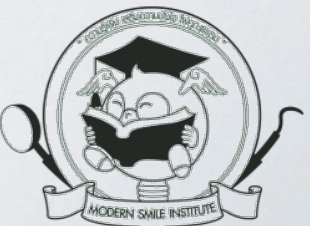




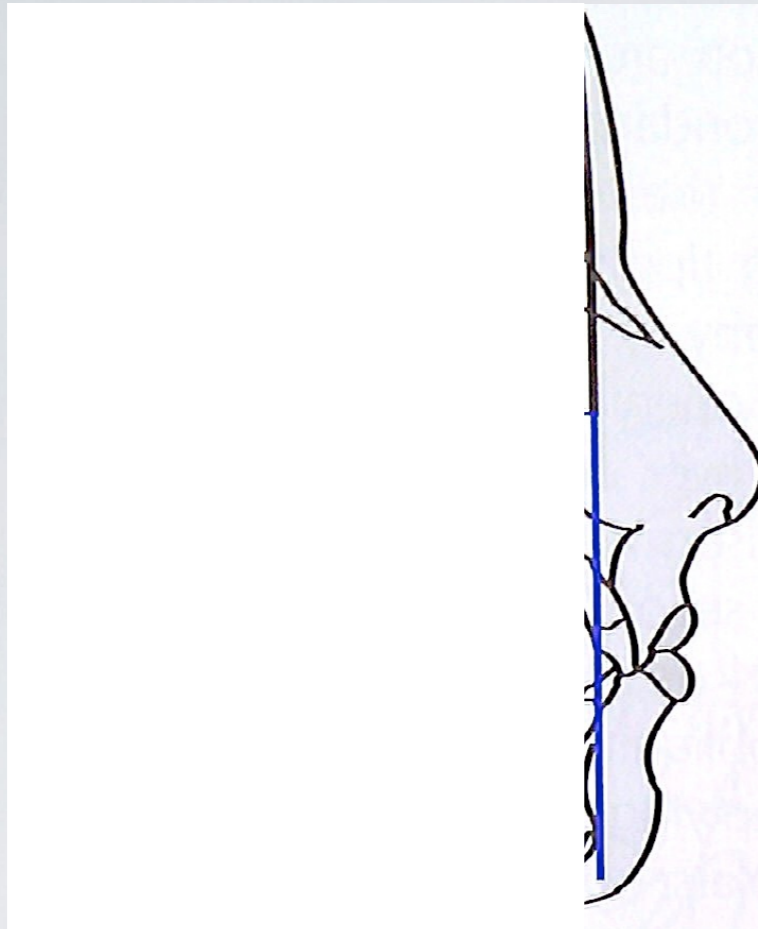
# Model trimming technique



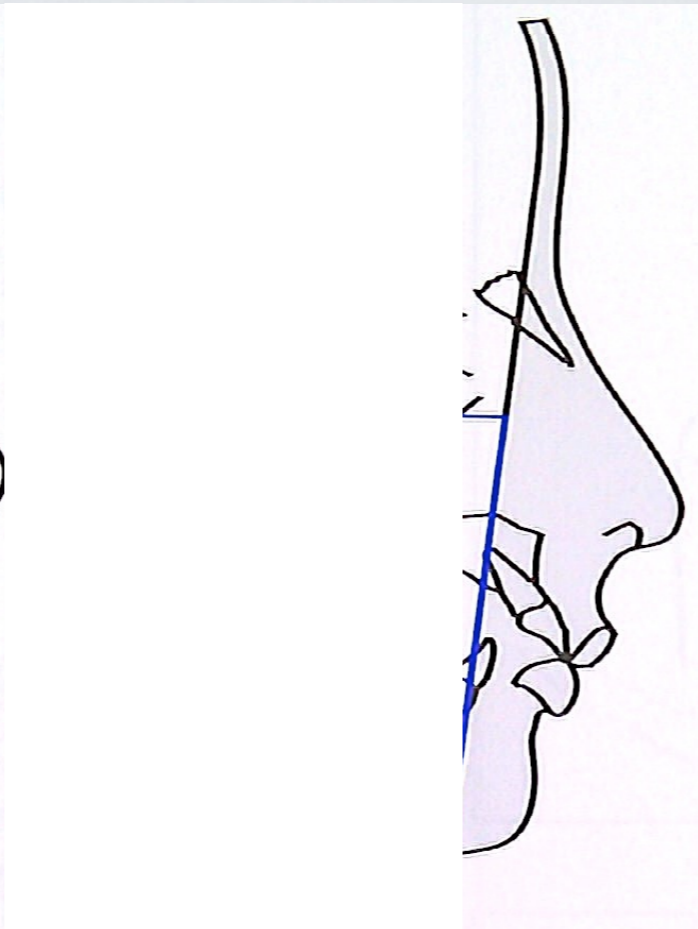
influence **incisors inclination** by improper models trimming technique



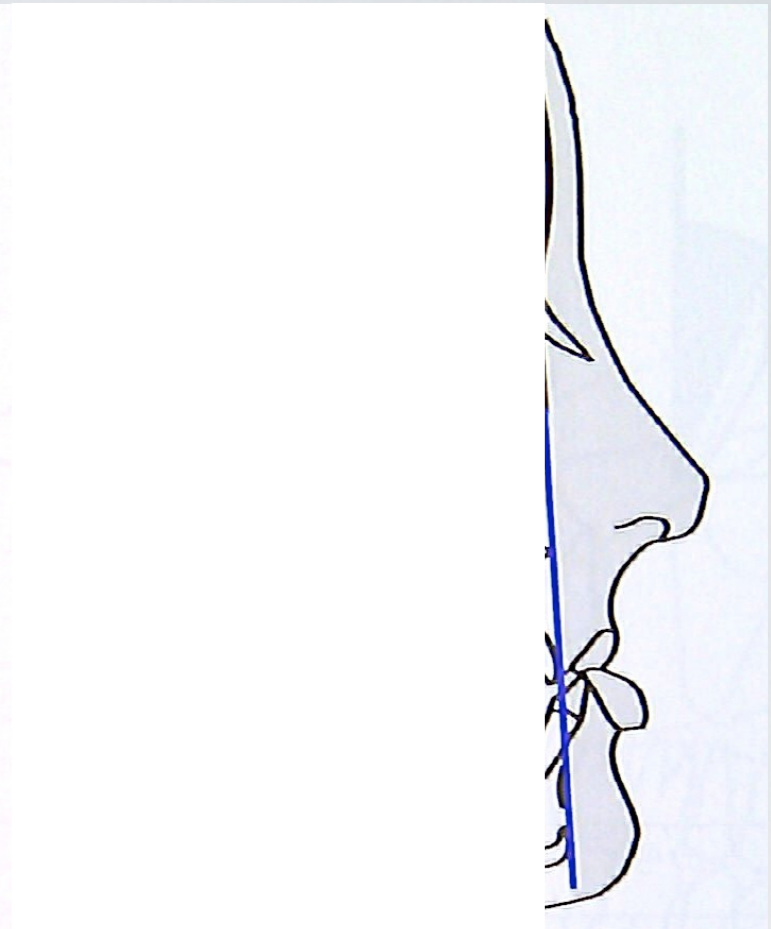




**Class I**



**Class II**

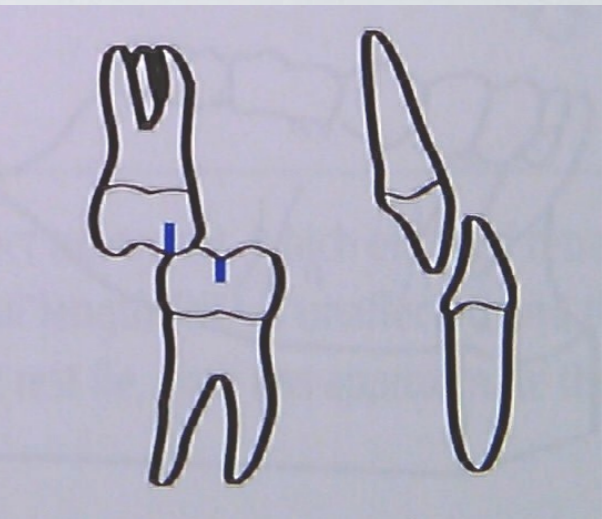
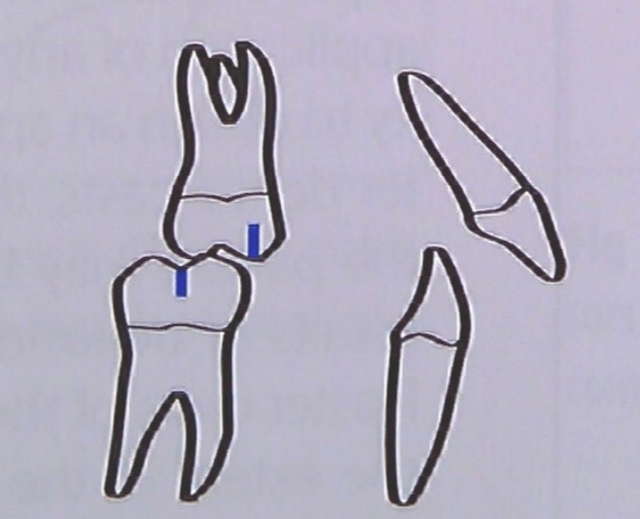
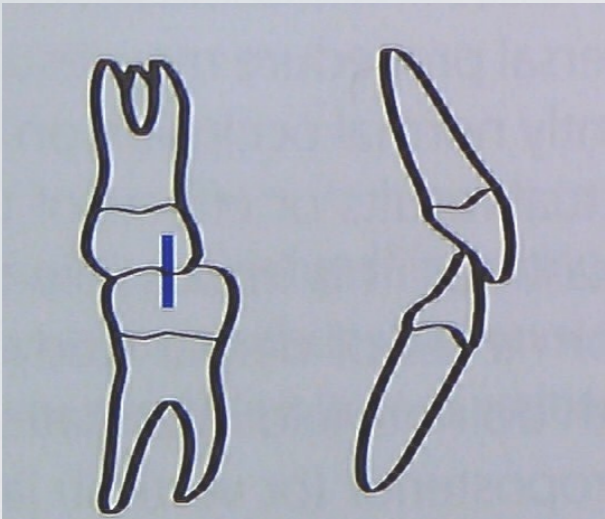


**Class III**

Angle Classification



What malocclusion are they ?



**ANGLE CLASSIFICATION IS NO LONGER RELIABLE**

X

X

X

X

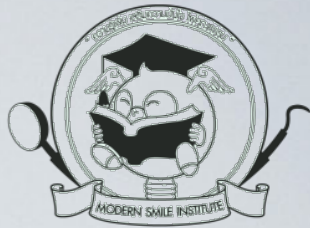
X

X

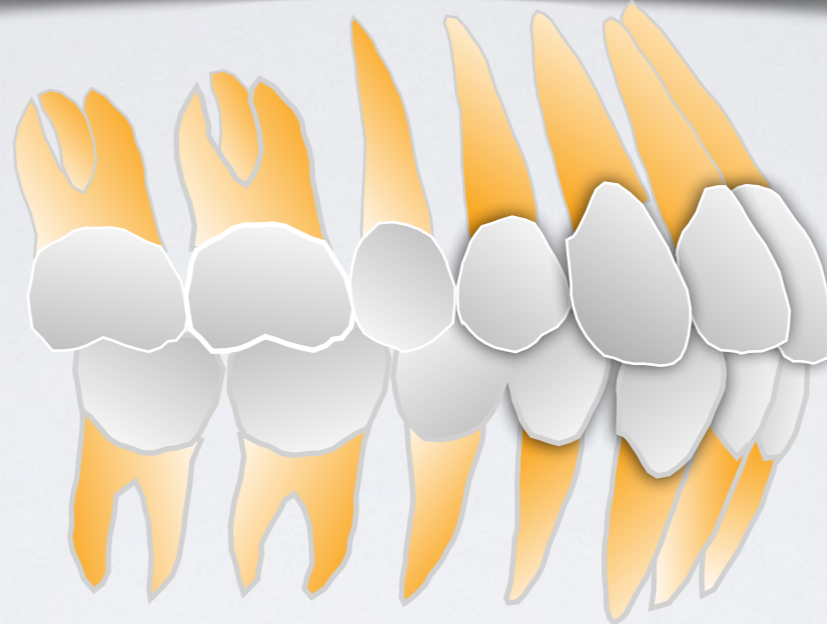




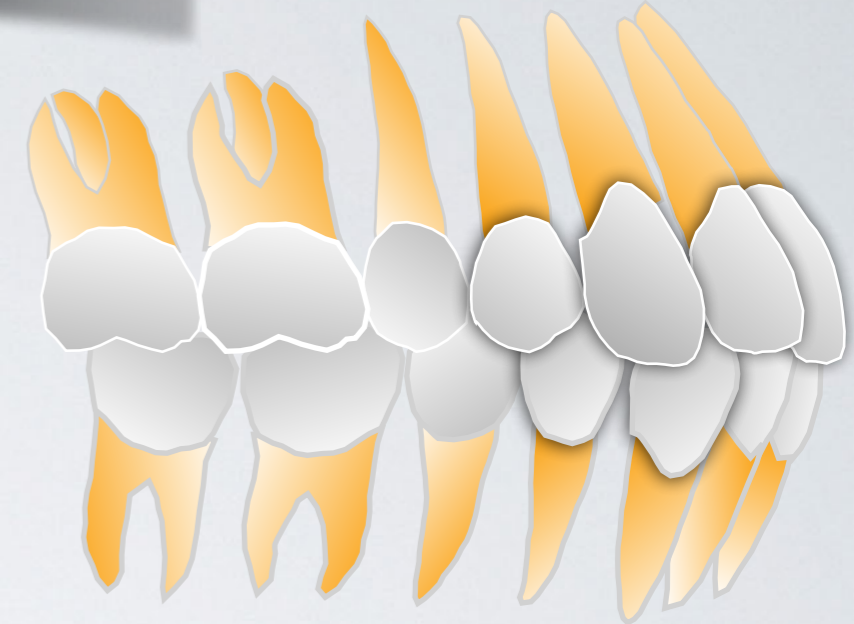
# Angle's Classification



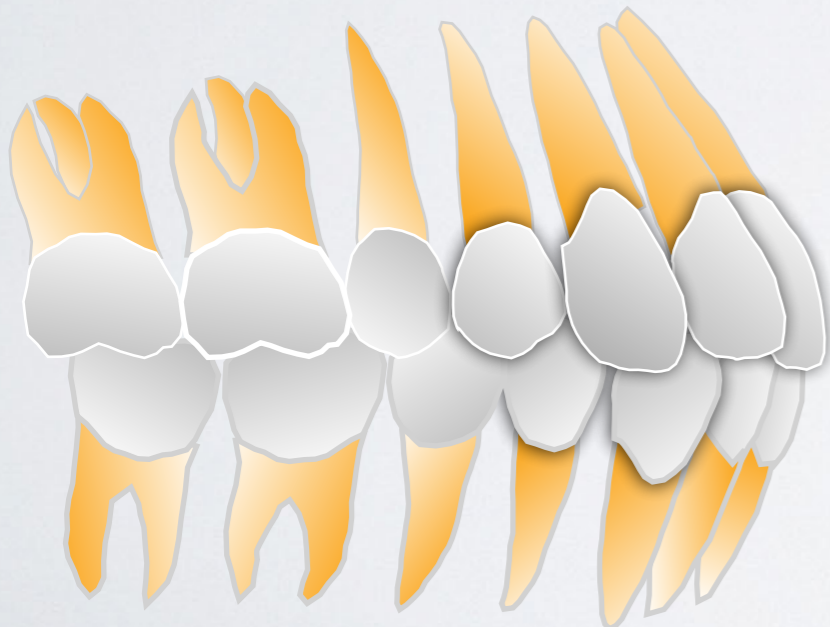
Skeletal Cl.I  
Dental Cl.II (Molar)



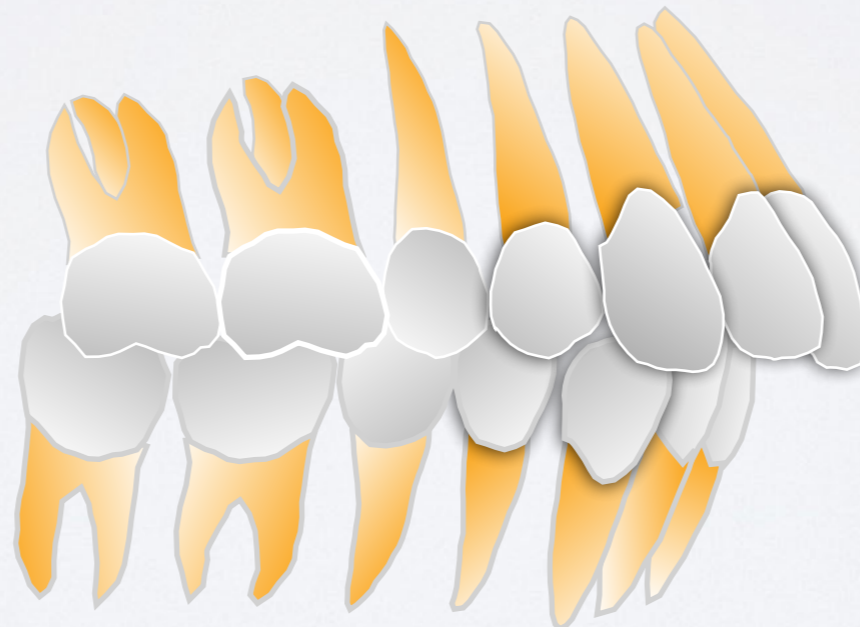
Skeletal Cl.I  
Dental Cl.III (Ant X-bite)



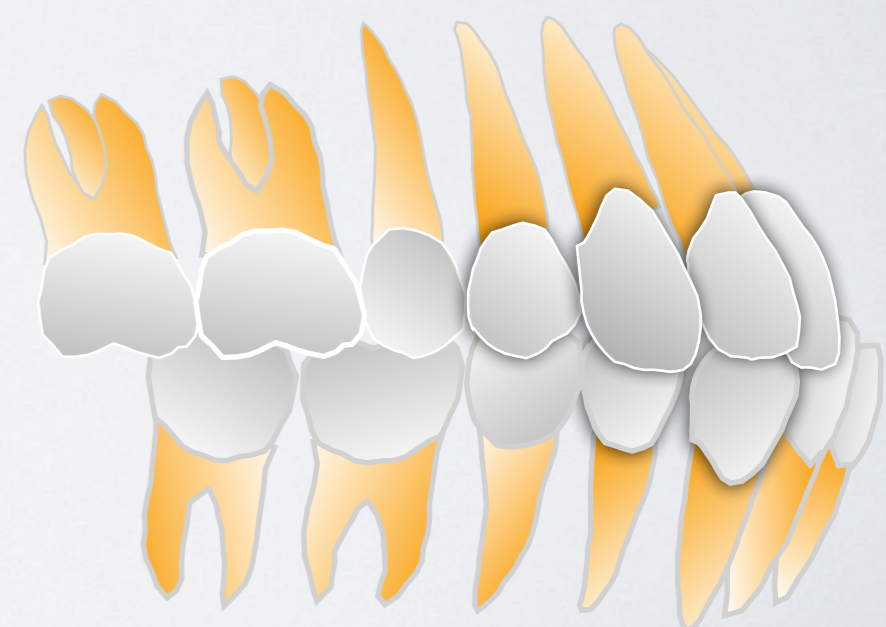
Skeletal Cl.I  
Dental Cl.III (Molar)



Skeletal Cl.I  
Dental Cl.II



Skeletal Cl.II  
Dental Cl.I (Molar)

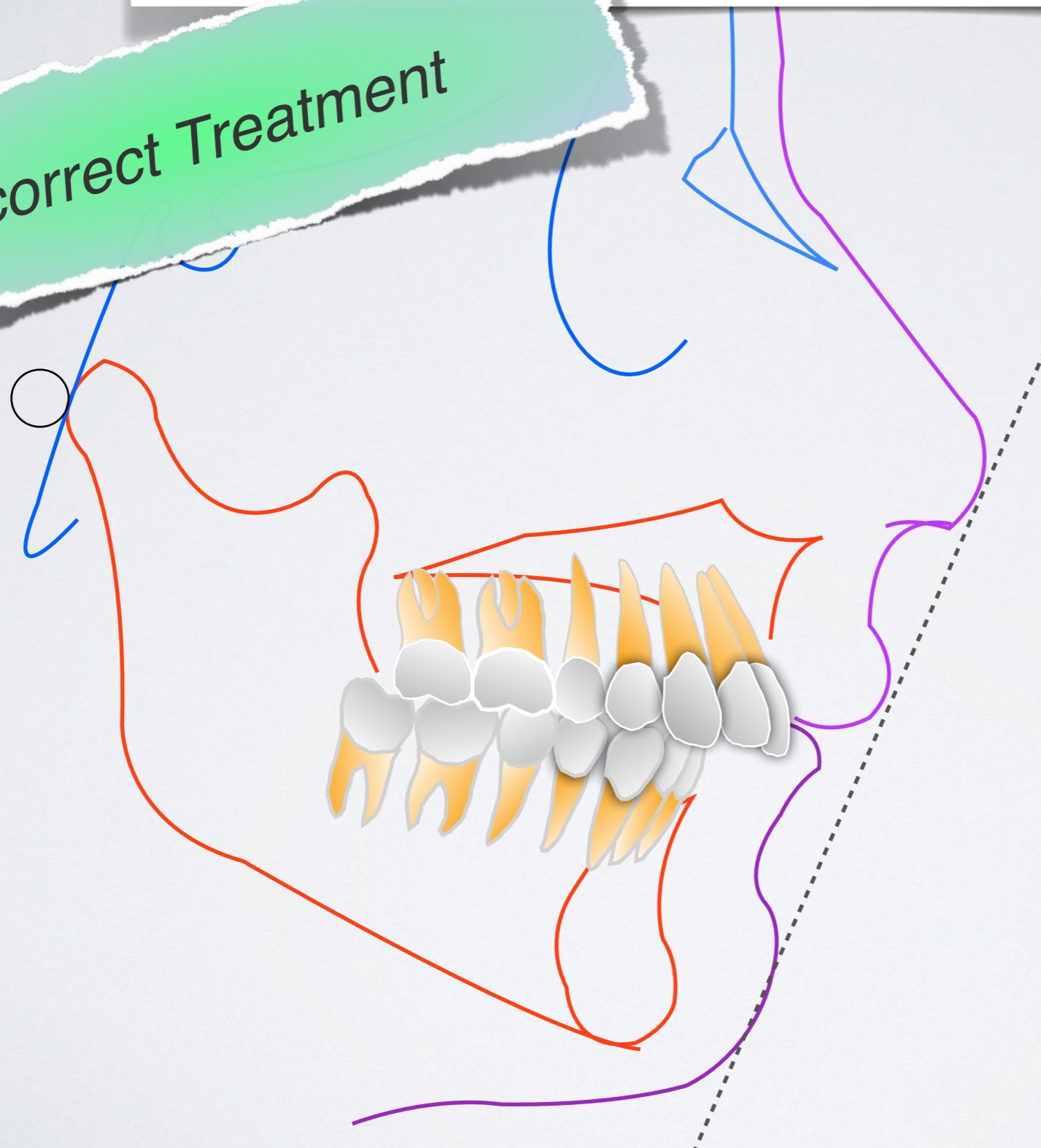


Skeletal Cl.III  
Dental Cl.I/II (Molar)

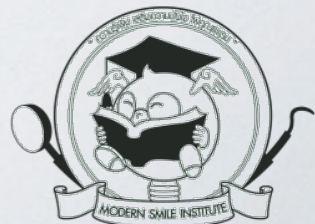


# Limitation to identify the abnormal parts of facial complex

Incorrect Treatment



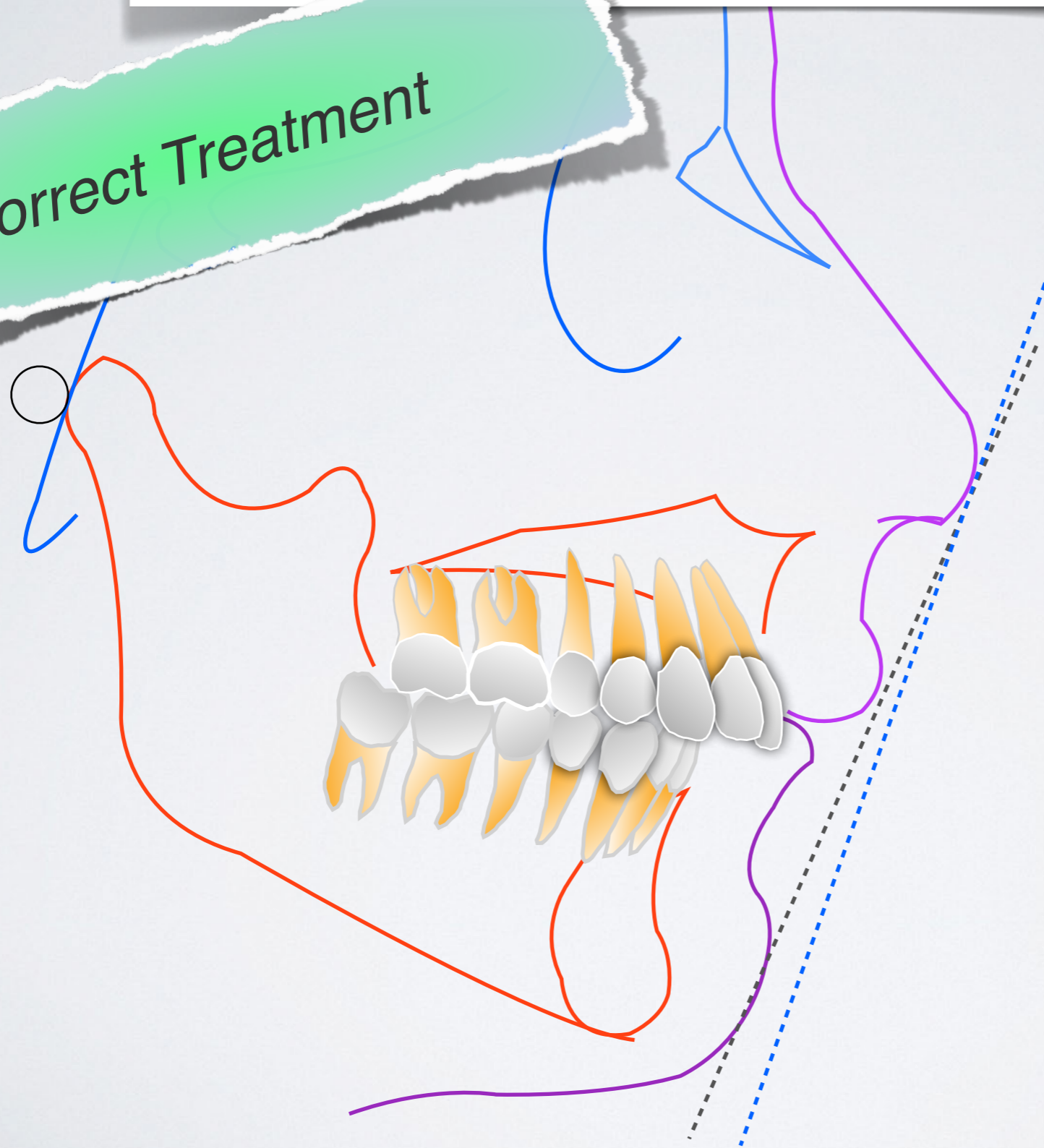
Treatment done by repositioning a normal maxillary tooth to articulate with the abnormal retrognathic mandibular arch



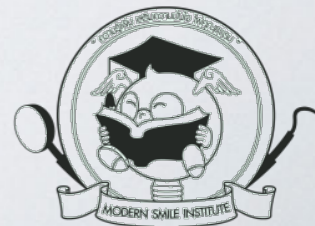


# Limitation to identify the abnormal parts of facial complex

Correct Treatment

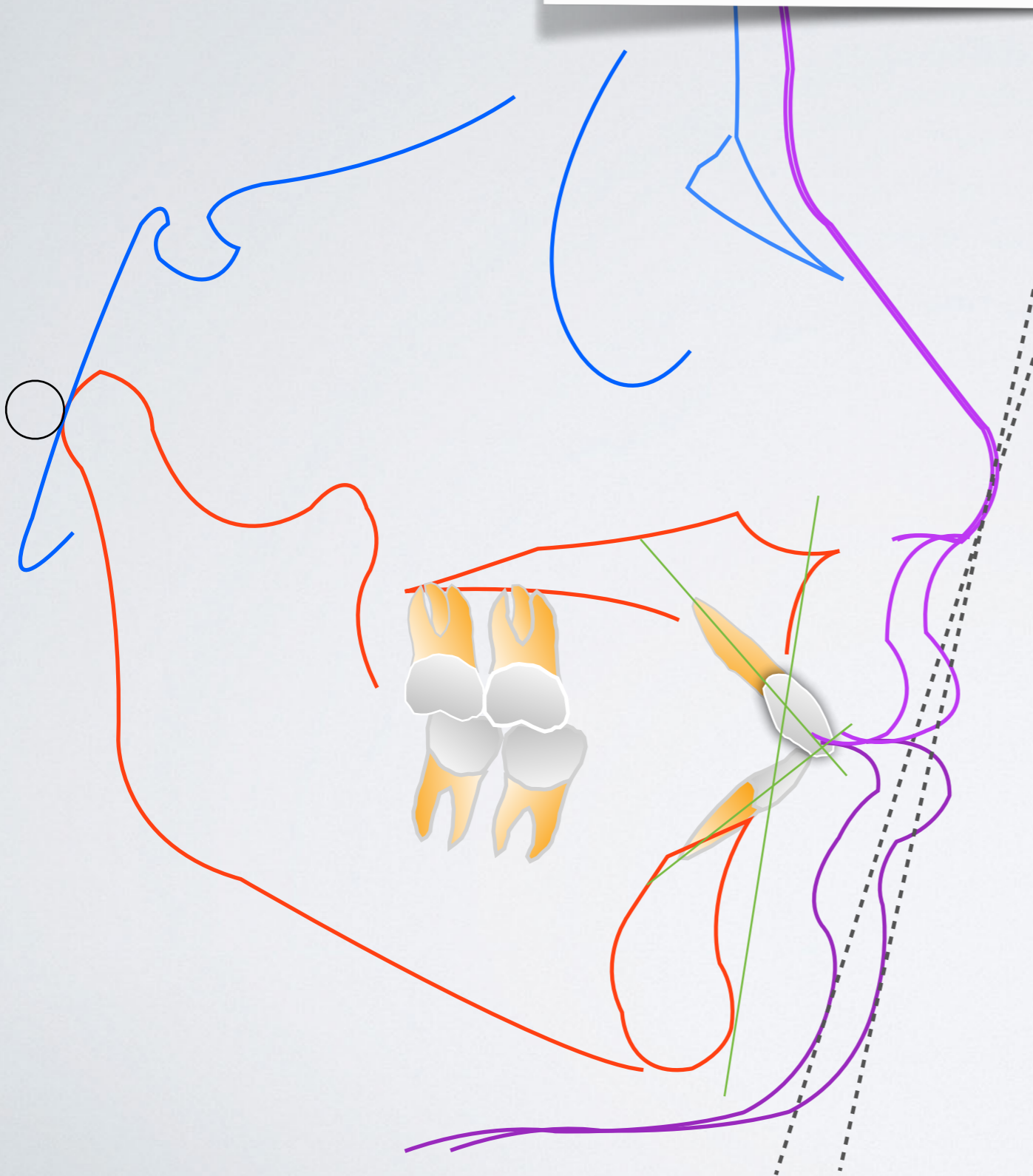


Treatment done by repositioning a mandibular tooth to articulate with the normal maxillary arch

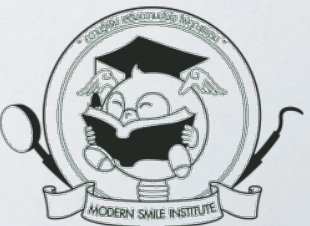




# Extraction VS None Extraction

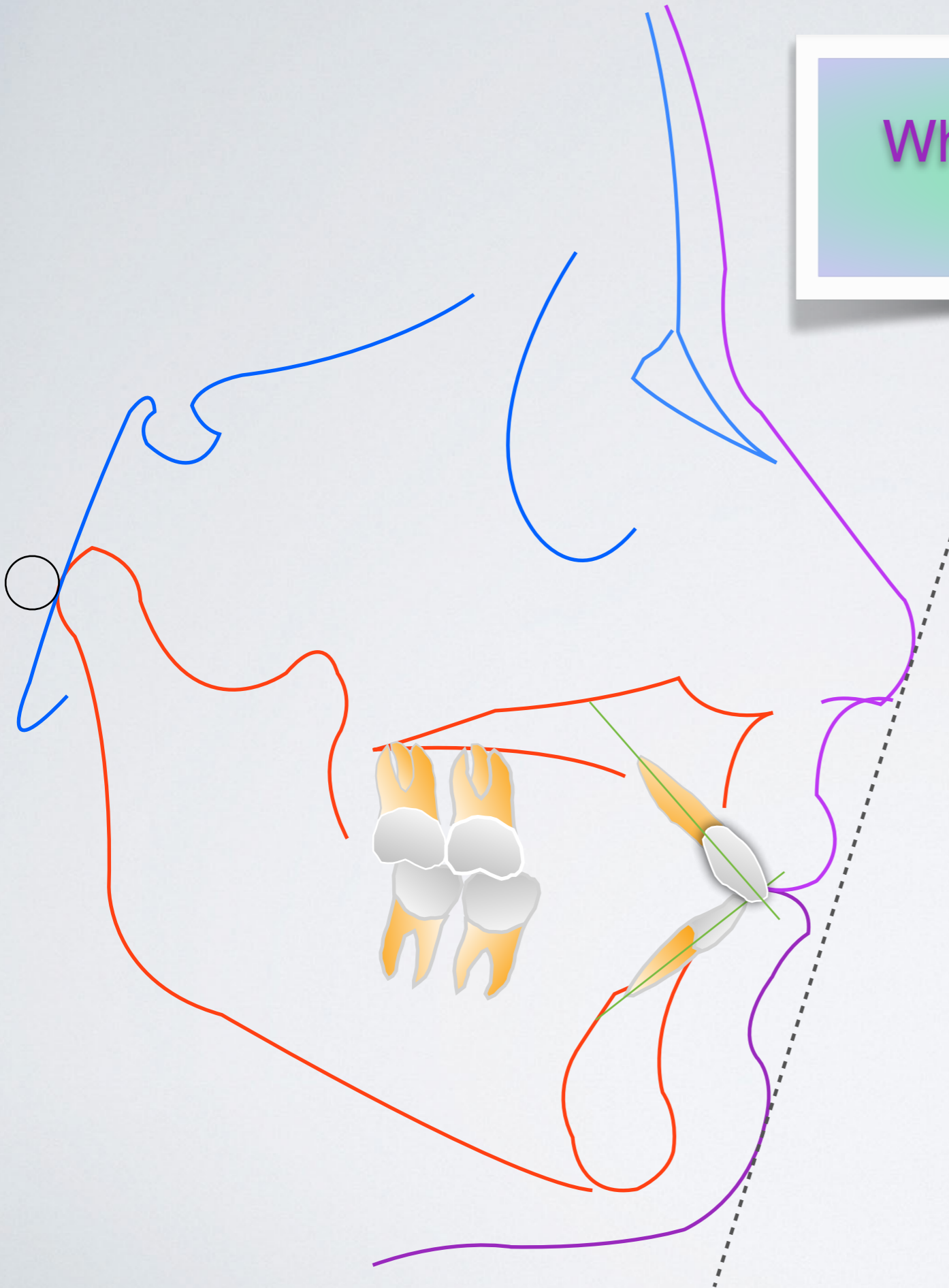


*Influenced by profile not by dental irregularity*



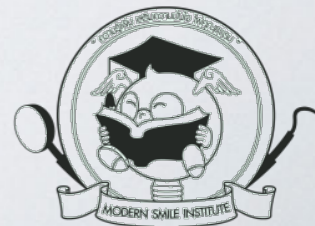


What is a treatment plan for this patient



*Non extraction with LCT  
of ant incisors*

*Bracket selection  
Low torque (-)*

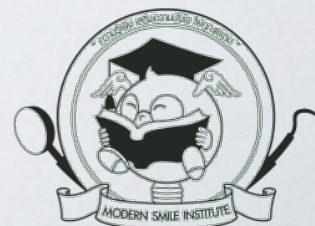




# Non extraction with LCT of ant incisors



*Bracket selection : Low torque (-)*





# Non extraction with LCT of ant incisors



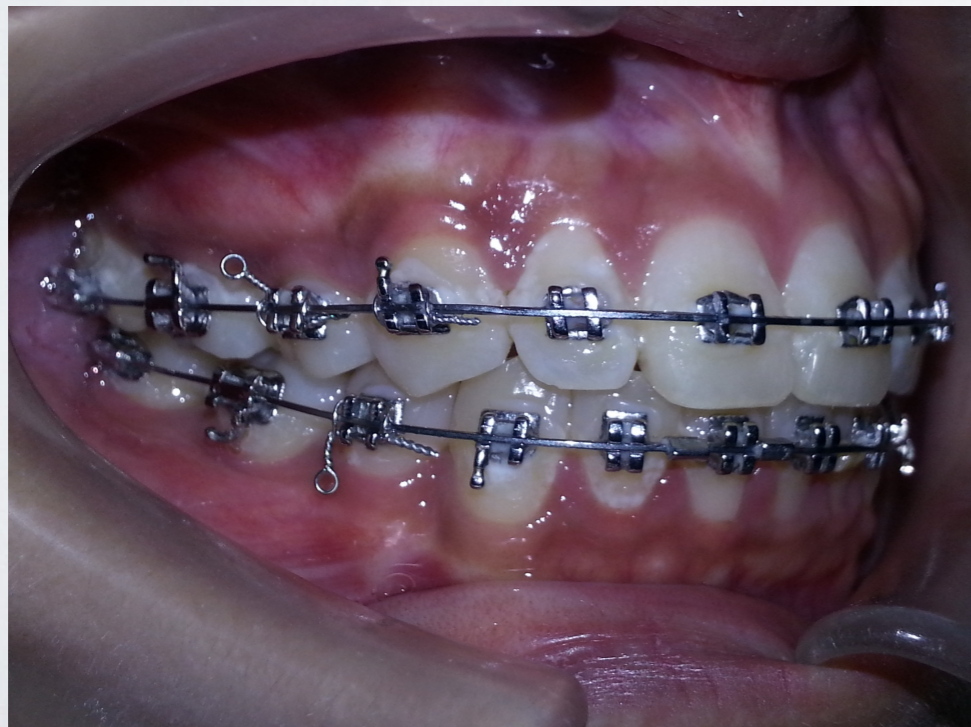


# Non extraction with LCT of ant incisors



*Bracket selection :  
Low torque (-)  
Pre-torque on 1/-*

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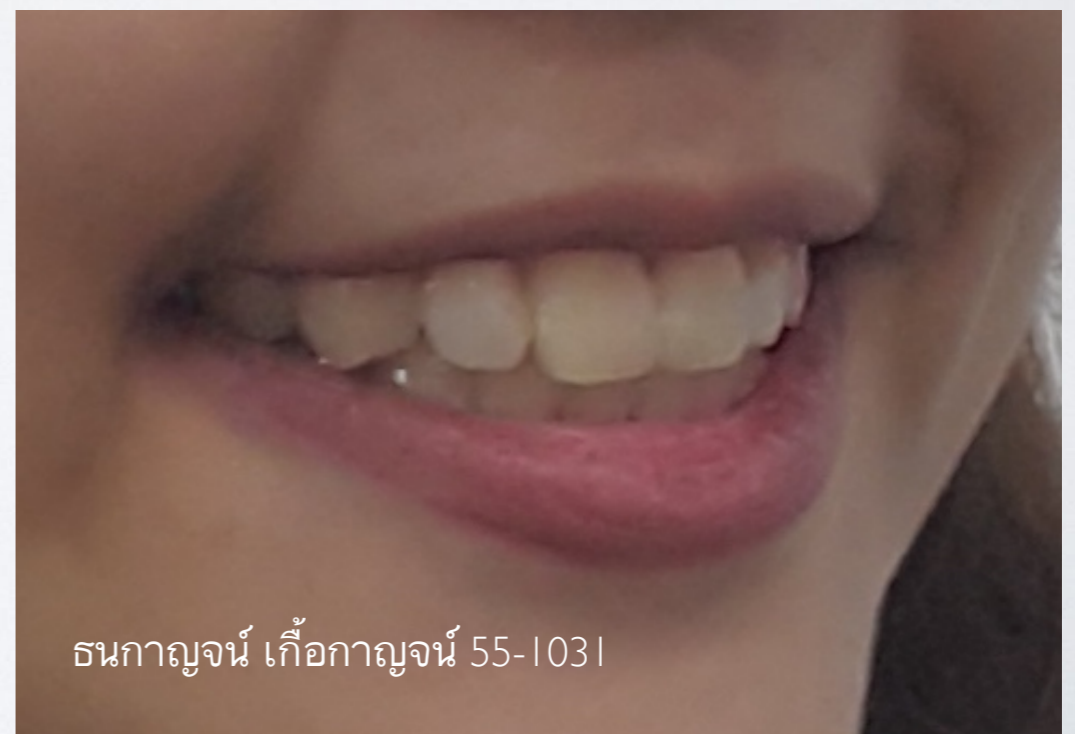






ธนกกาญจน์ เกื้อกาญจน์ 55-1031





ธนกาญจน์ เกื้อกาญจน์ 55-1031



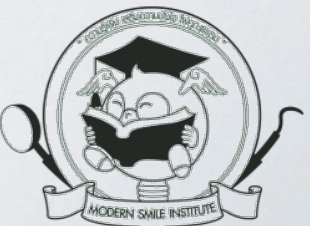


# Treatment Plan Decision

**Patient Profile**  
(Soft Tissue)

Lateral Cephalogram  
(Skeletal)

Angle  
Classification  
(Dental)





# PROFILE

3 points  
Na-ANS-  
Pog

Straight

Concave

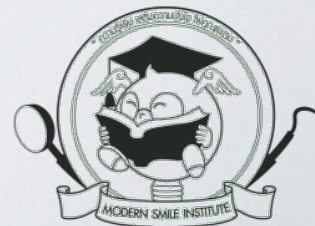
Convex

2 points  
Na-Pog

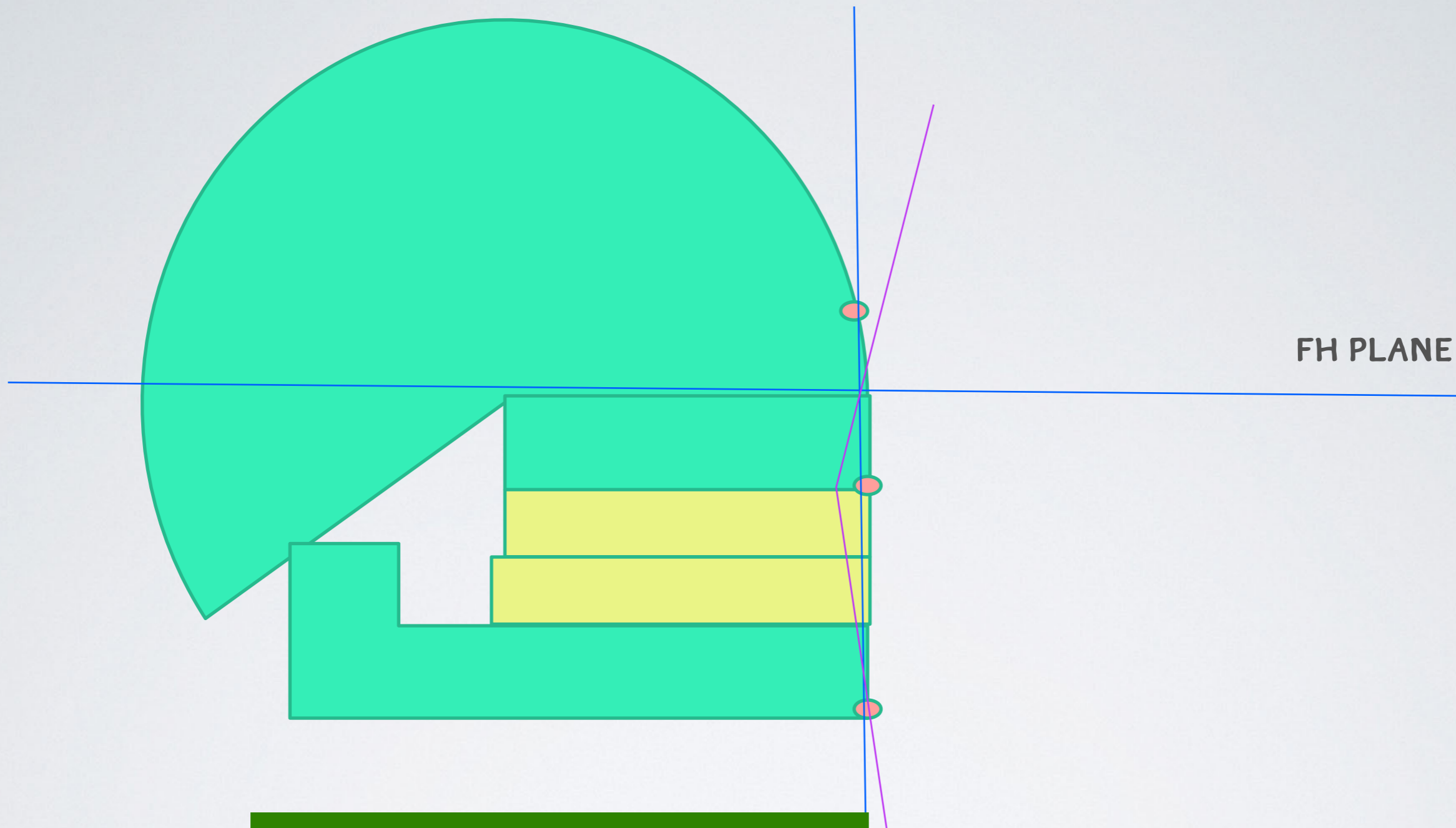
Orthognathi  
c

Prognathic

retrognathic



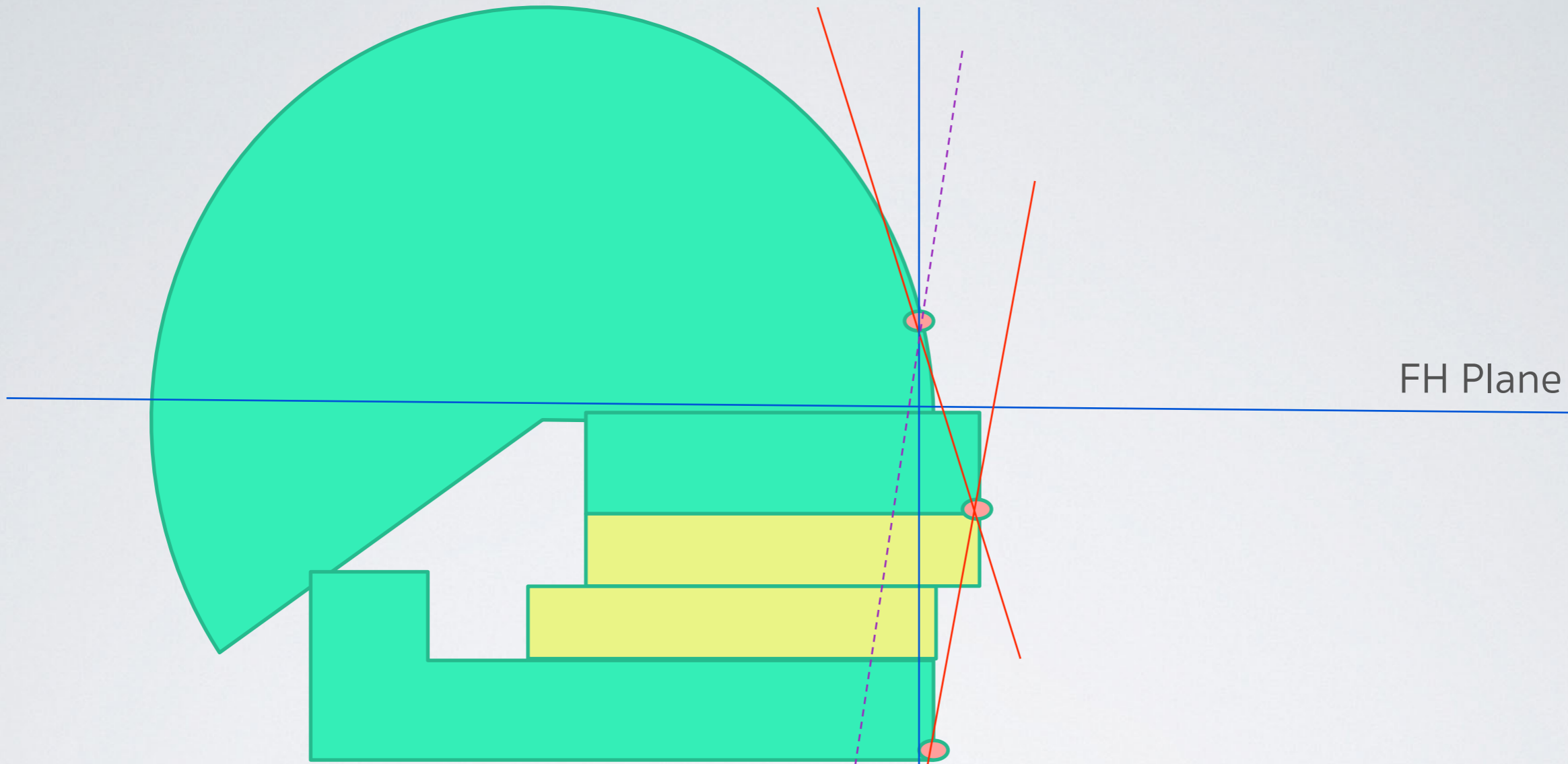




Concave  
Orthognathic

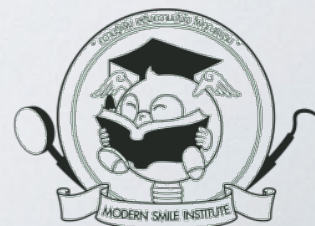




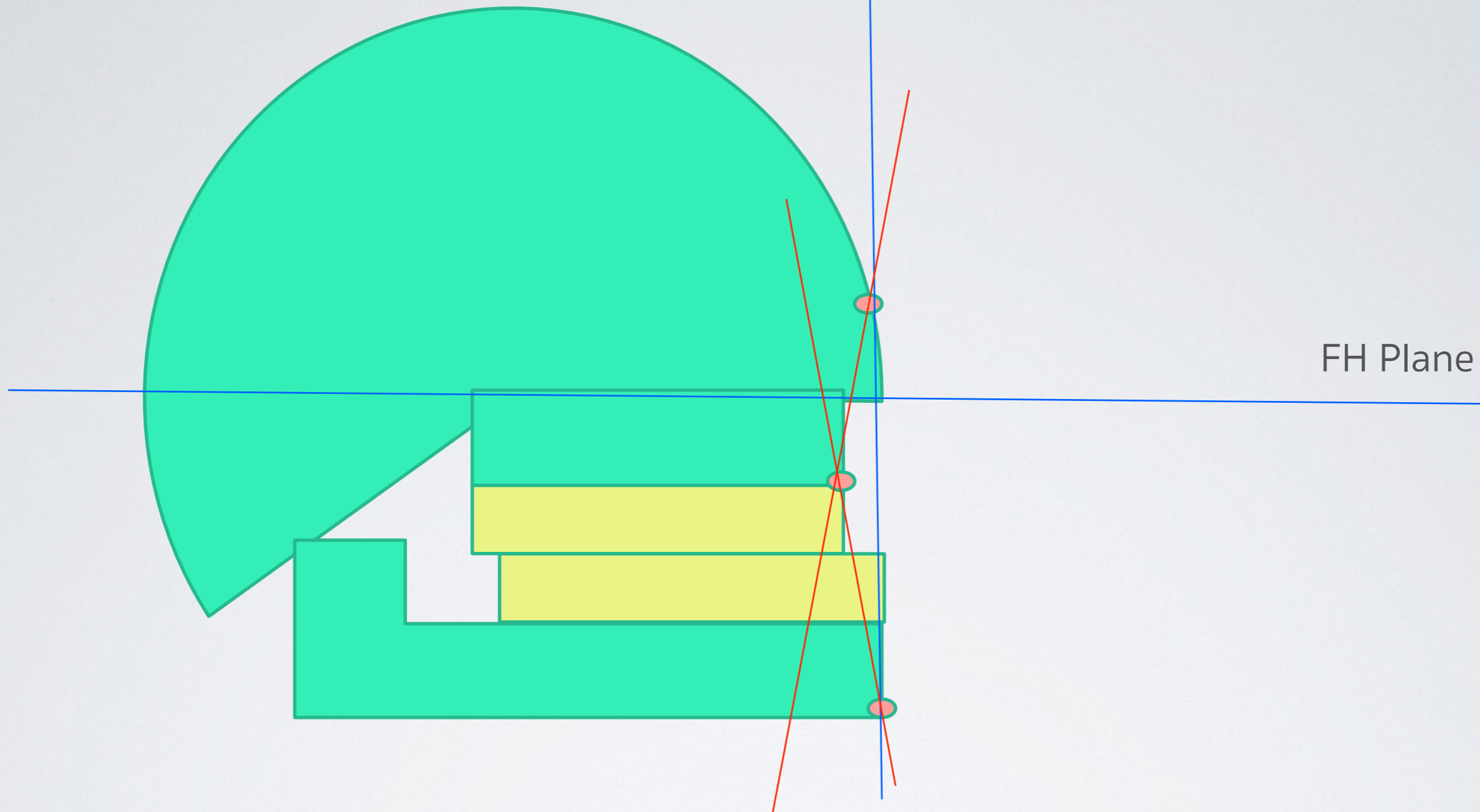


FH Plane

Convex  
Retrognathic







FH Plane

Concave  
Prognathic

