

CEPHALOMETRICS

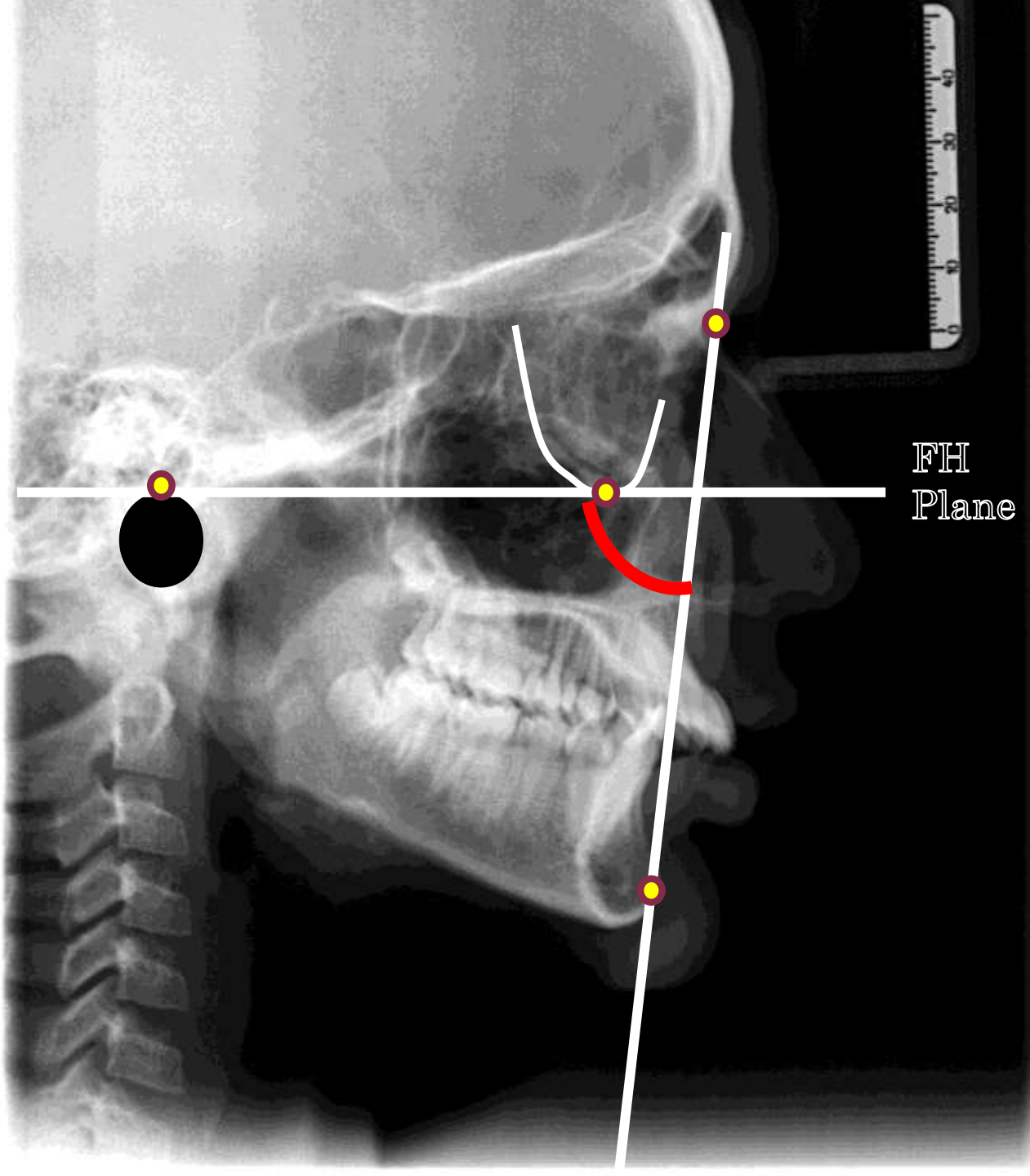
Dr Binu Abraham

SKELETAL AND DENTAL DIFFERENTIATION



FACIAL ANGLE

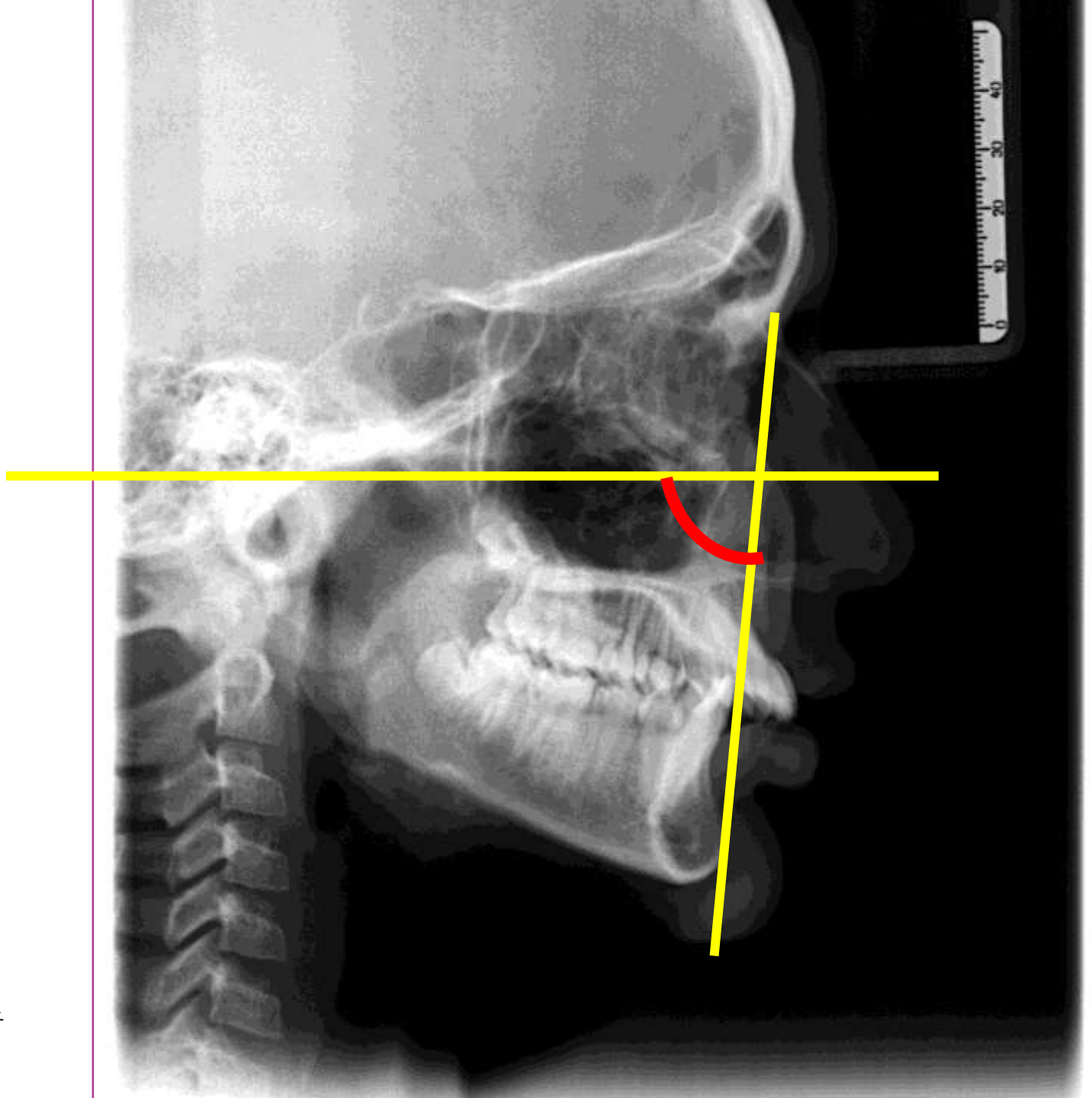
Normal
87.5



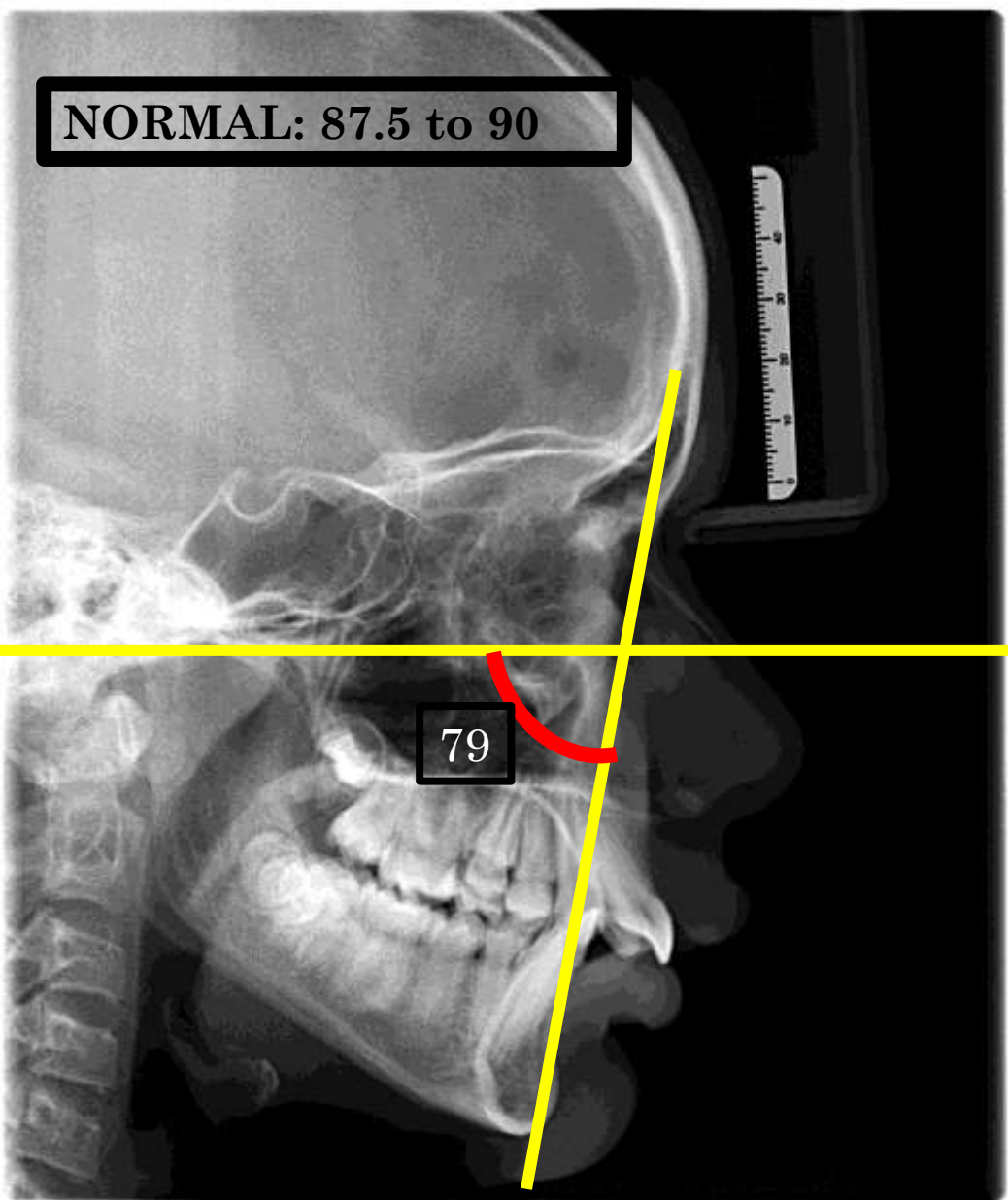
FACIAL ANGLE

NORMAL: 87.5 to 90

- Downs Analysis: **William Downs (1948)**
Variations in facial relationships: their significance in treatment and prognosis. Am J Orthod. 1948;34(10):812-40.



NORMAL: 87.5 to 90



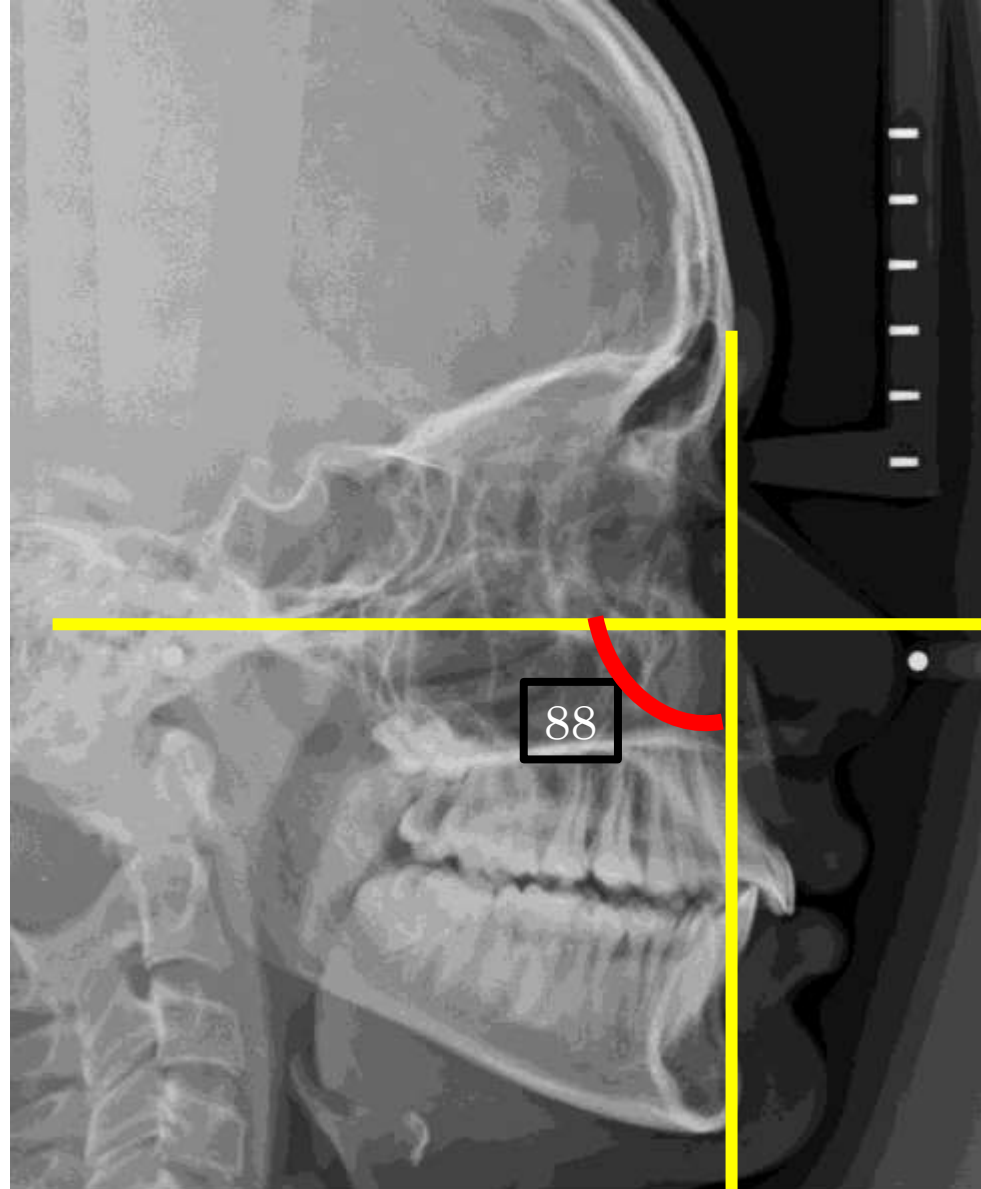
79



Twin Block

NORMAL: 87.5 to 90

80



88

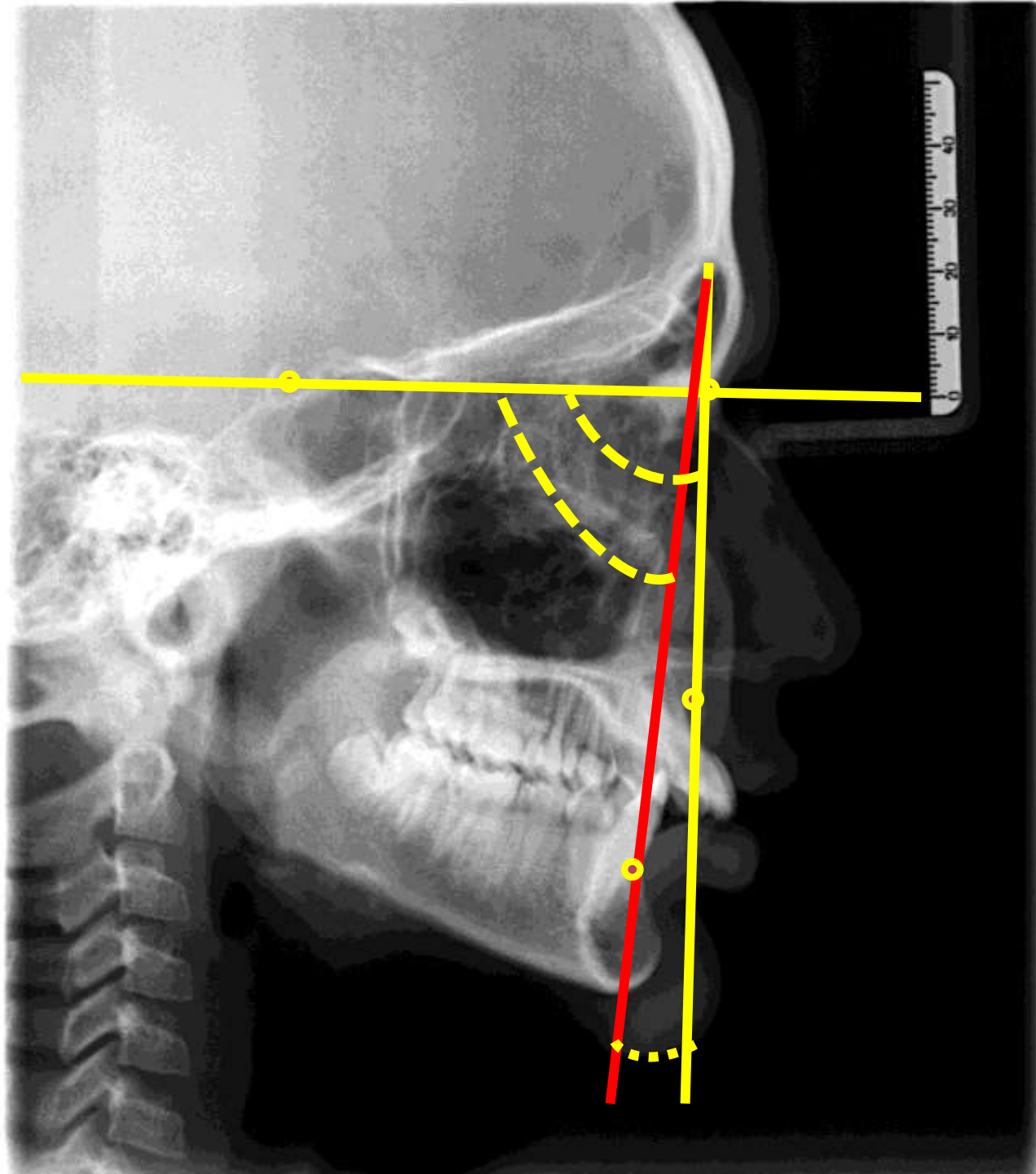
LIMITATION OF FACIAL ANGLE

- Only mandible is considered
- Reliability of FH plane

STEINER ANALYSIS

Steiner (1953) *Cephalometrics clinical practice. Angle Orthod. 1959;29(1):8-29.*





SNA : 86

SNB: 76

ANB: 10

NORMAL

SNA : 82

SNB: 80

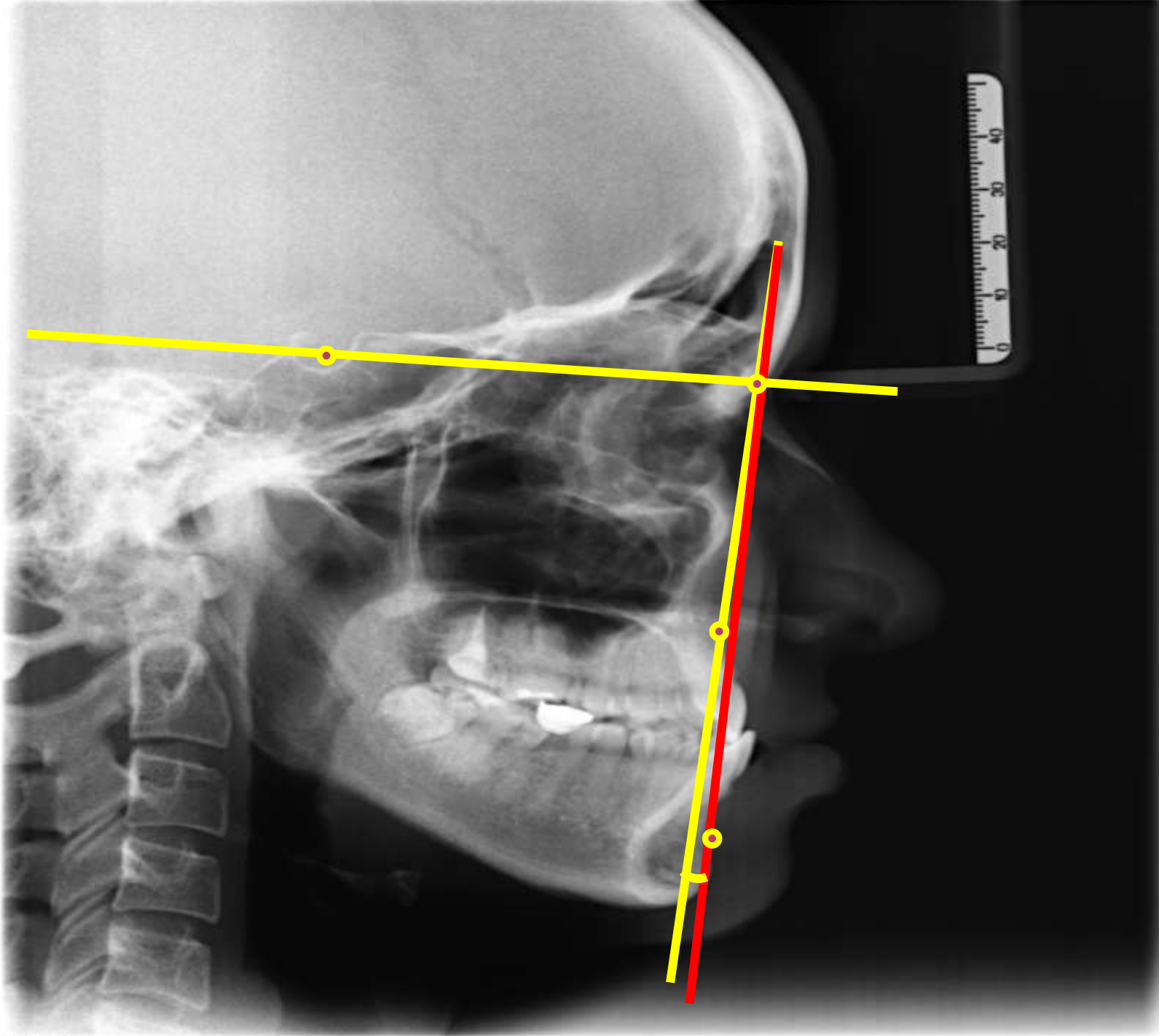
ANB: 2

TWB with HG



CLASS 3



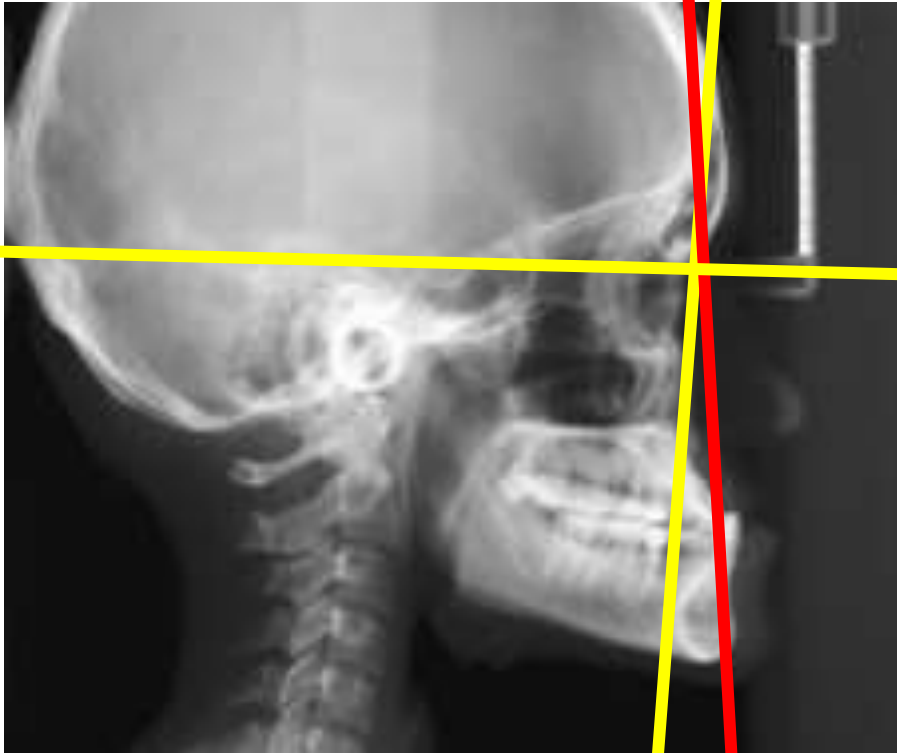


ANB: -3

NORMAL

ANB: 2





SNA : 73

SNB: 80

ANB: -7

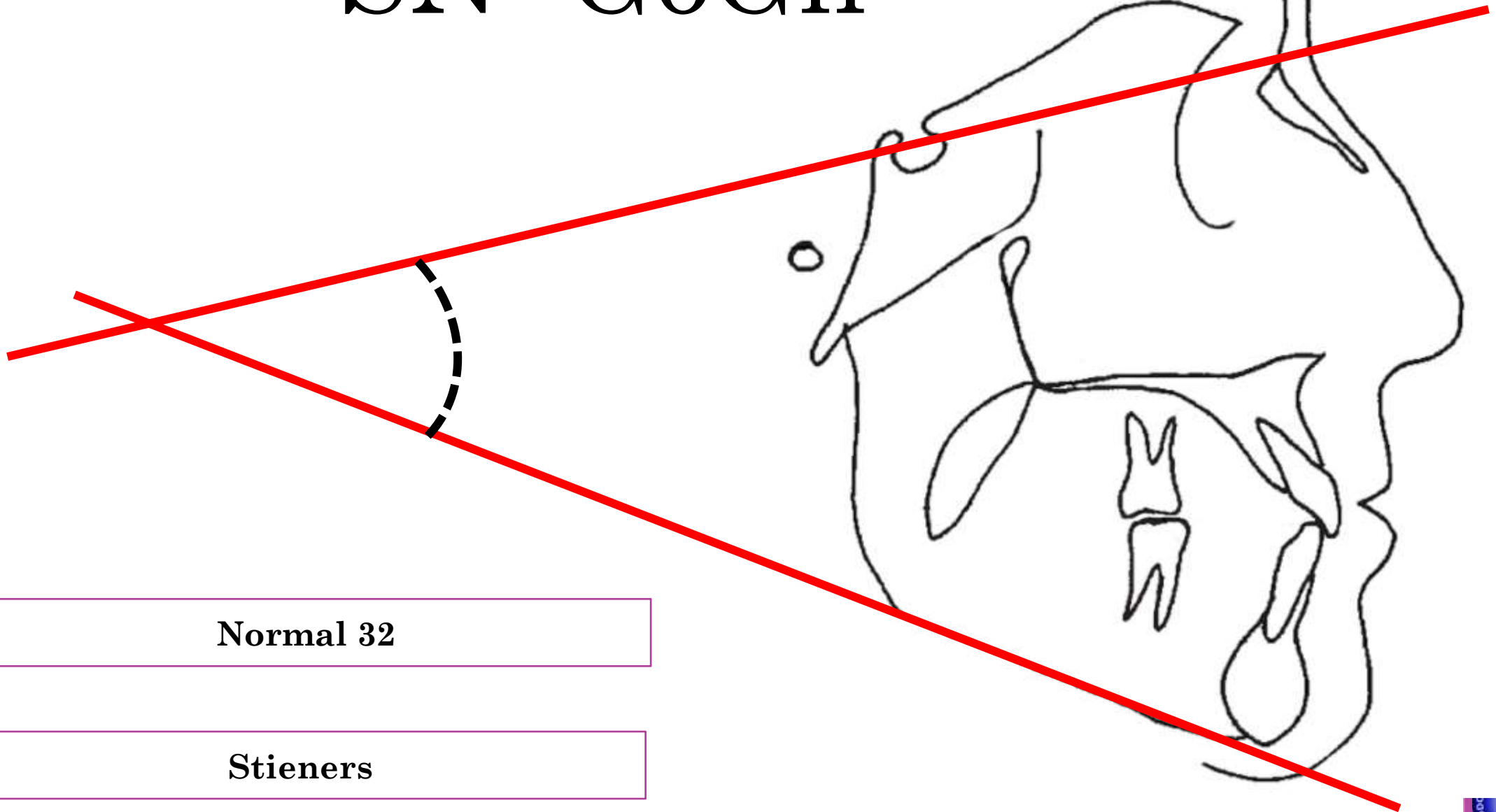
NORMAL

SNA : 82

SNB: 80

ANB: 2

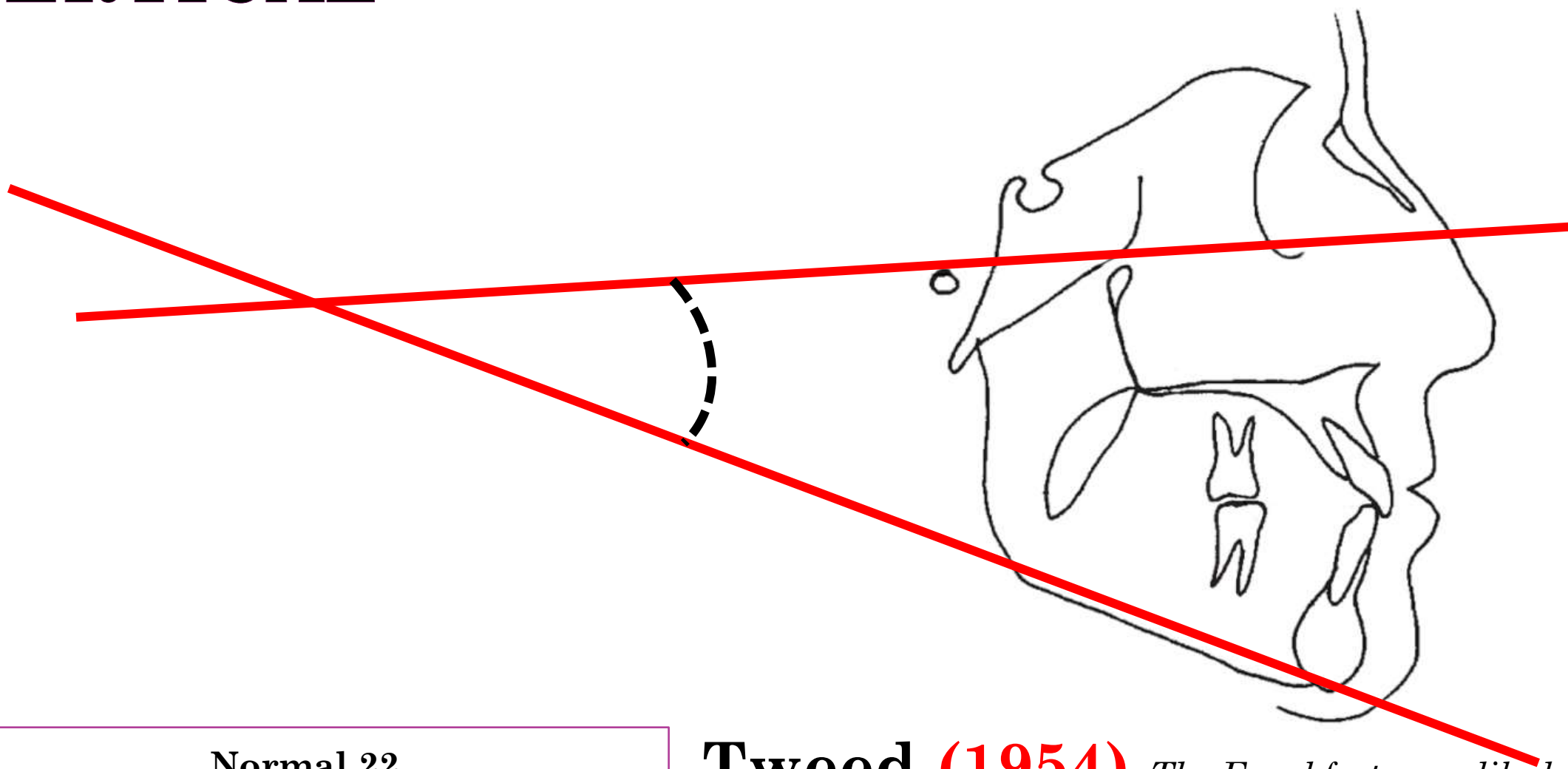
VERTICAL SN- GoGn



Normal 32

Stieners

VERTICAL FMA



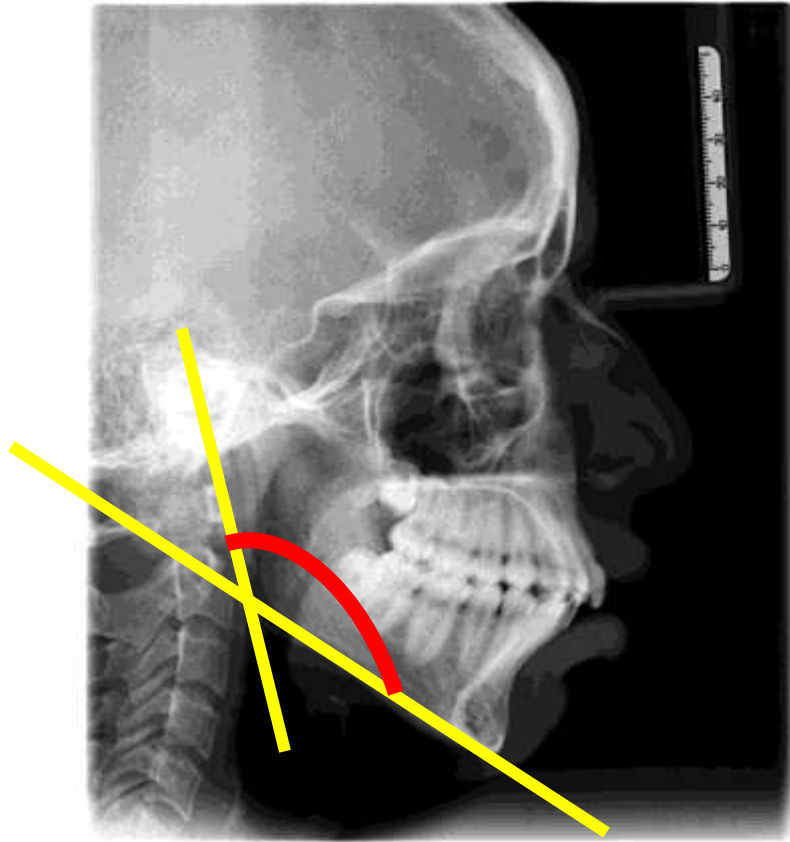
Normal 22

Downs Analysis

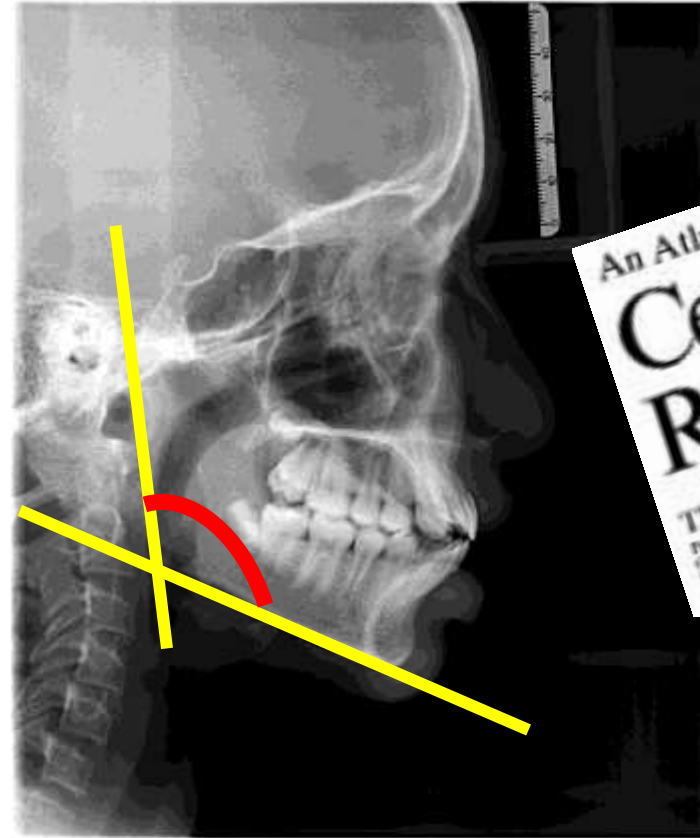
Tweed (1954) *The Frankfort-mandibular plane angle in orthodontic diagnosis, classification, treatment planning, and prognosis. Am J Orthod Oral Surg. 1946;32:175-230*

GONIAL ANGLE

NORMAL 128.5



137



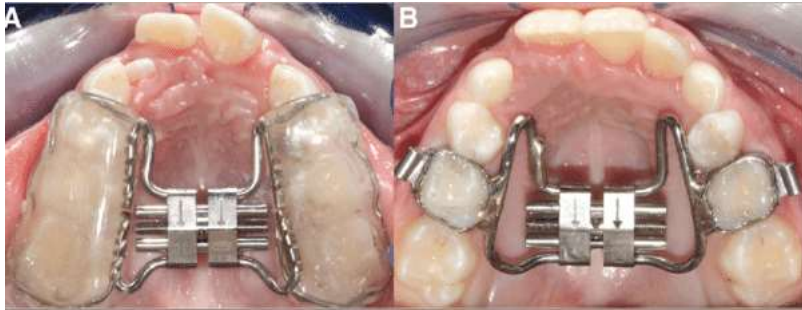
129

An Atlas and Manual of
**Cephalometric
Radiography**
Thomas Rakosi, M.D., D.D.S.
Professor of Orthodontics,
Chairman of the Orthodontic Department,
University of Indiana

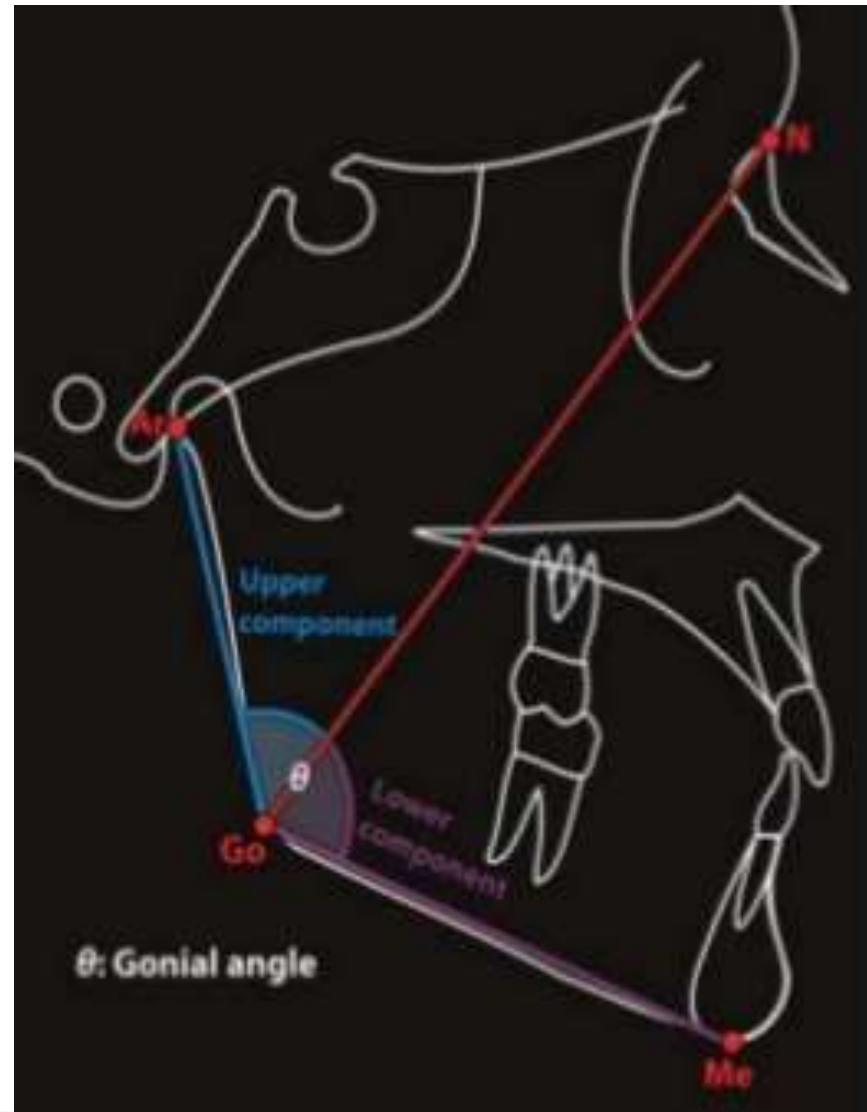
Rakosi Analysis



GONIAL ANGLE



Jarabak



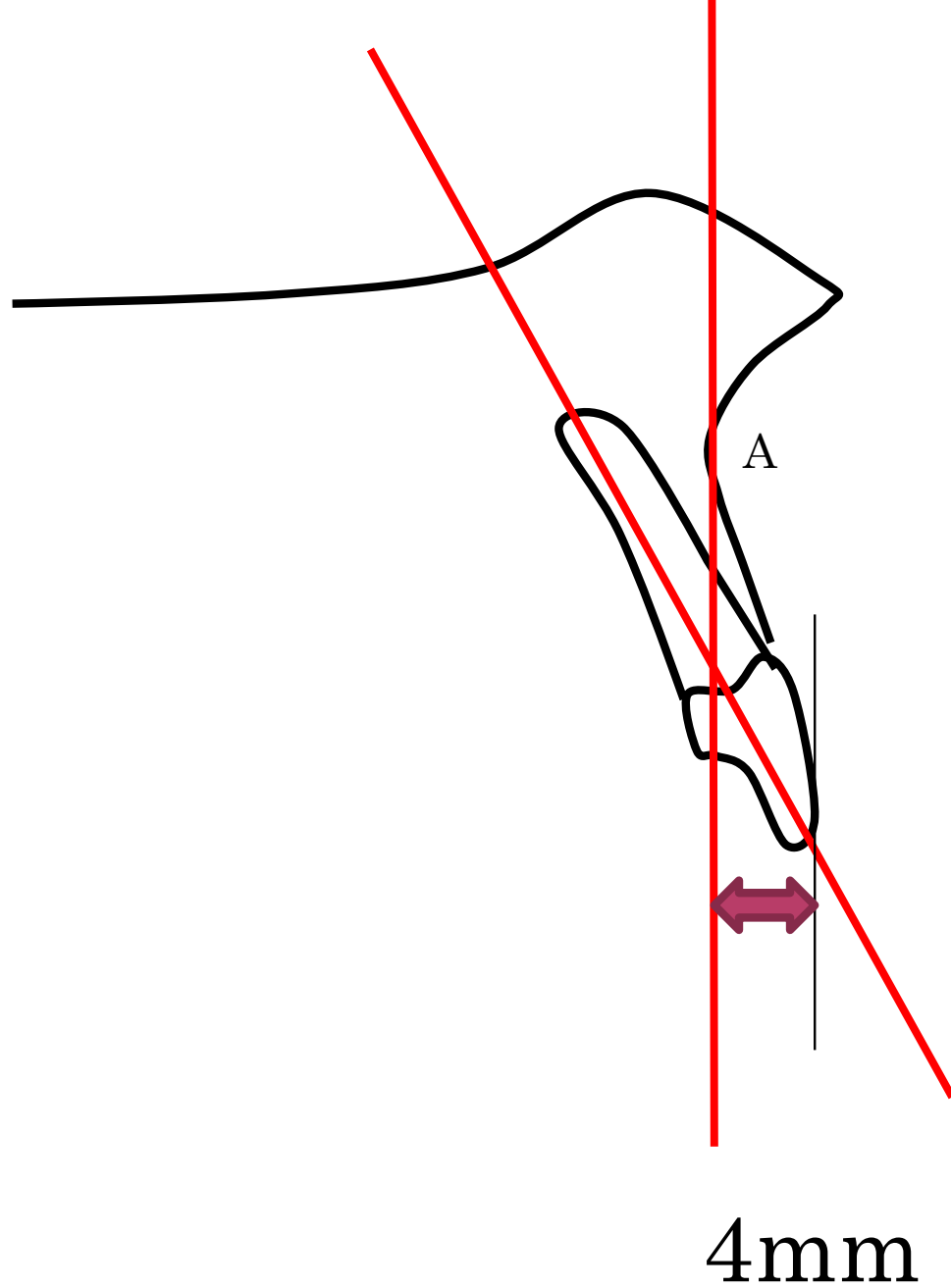
Upper/Lower Gonial Angle

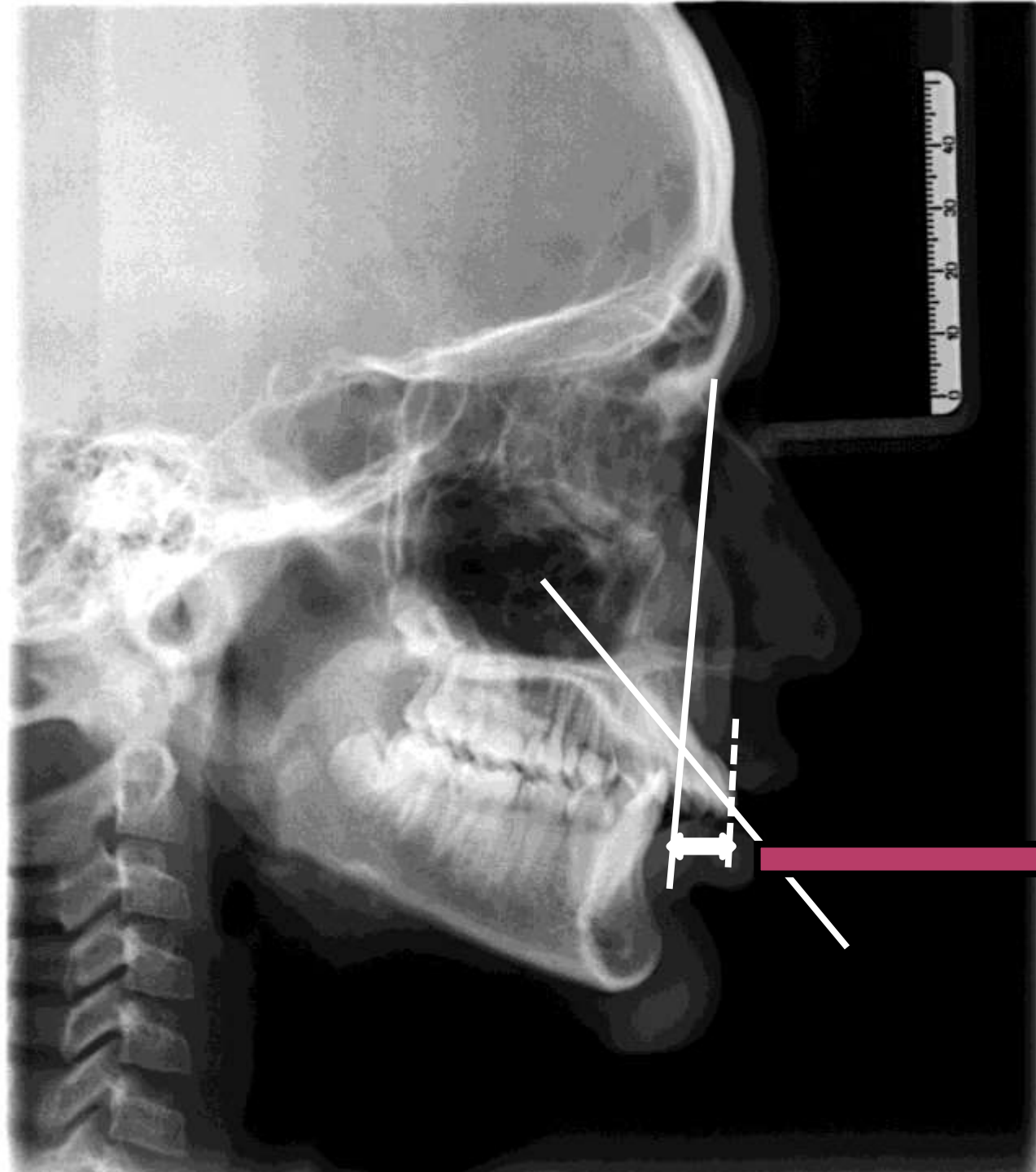
Jarabak JR, Fizzel JA. Technique and treatment with lightwire appliances. 2a ed. St Louis: CV Mosby; 1972.

DENTAL PARAMETERS



Stieners Analysis



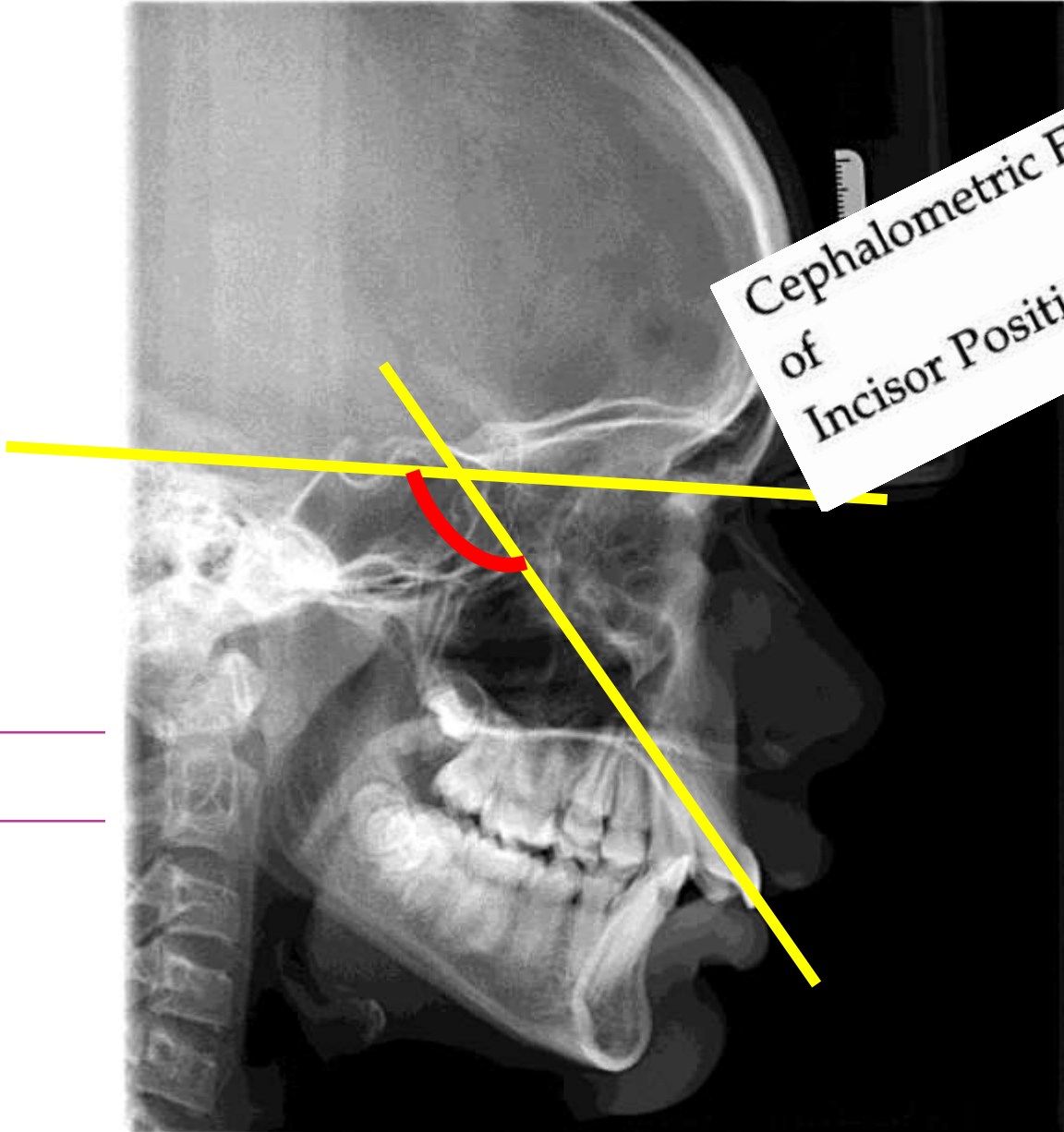


NORMAL 4mm



8mm

U1 TO SN



Cephalometric Evaluation
of
Incisor Position

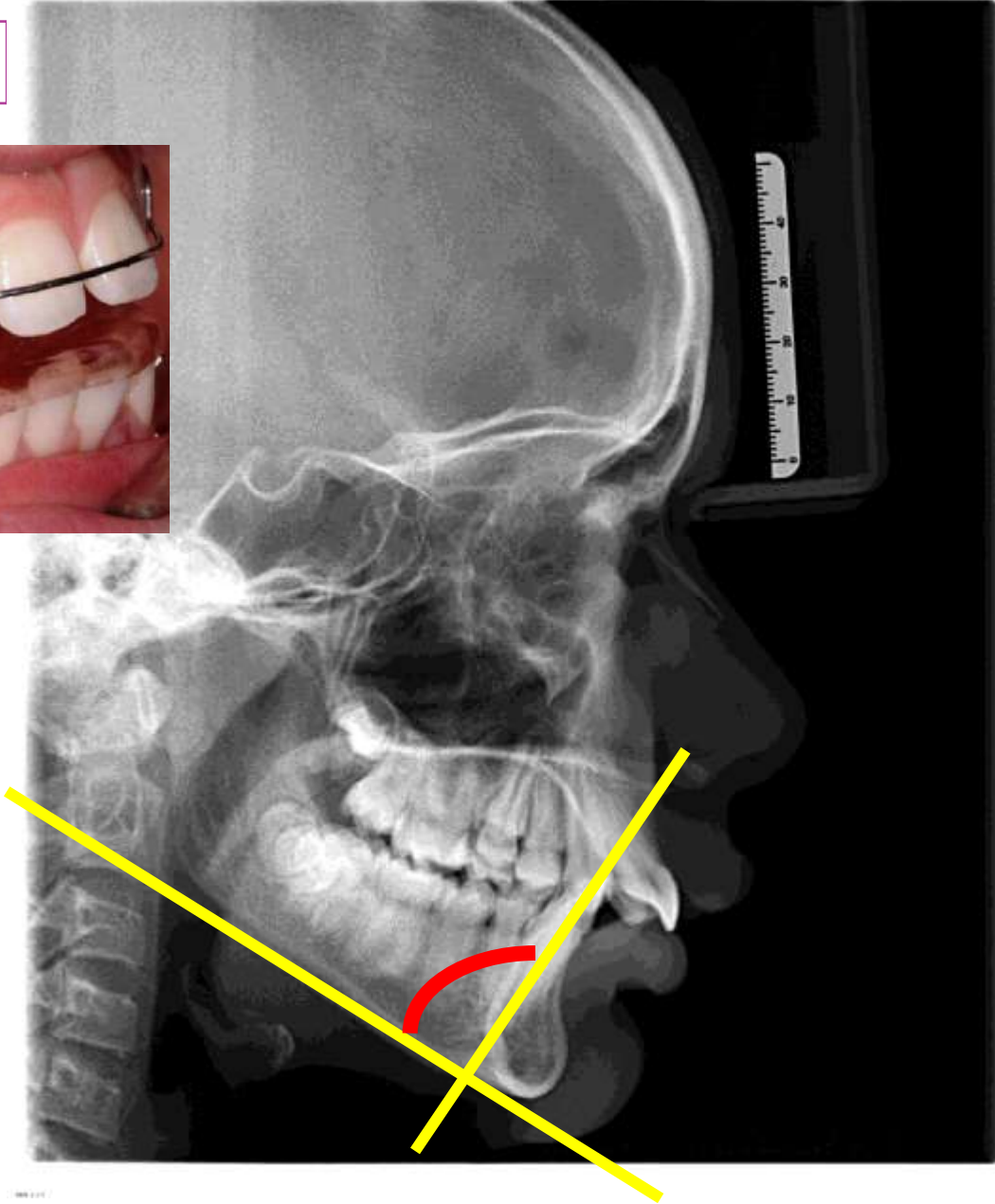
Edward Ellis III
James A. McNamara, Jr.

NORMAL: 102

115

LOWER INCISOR POSITION

NORMAL: 90

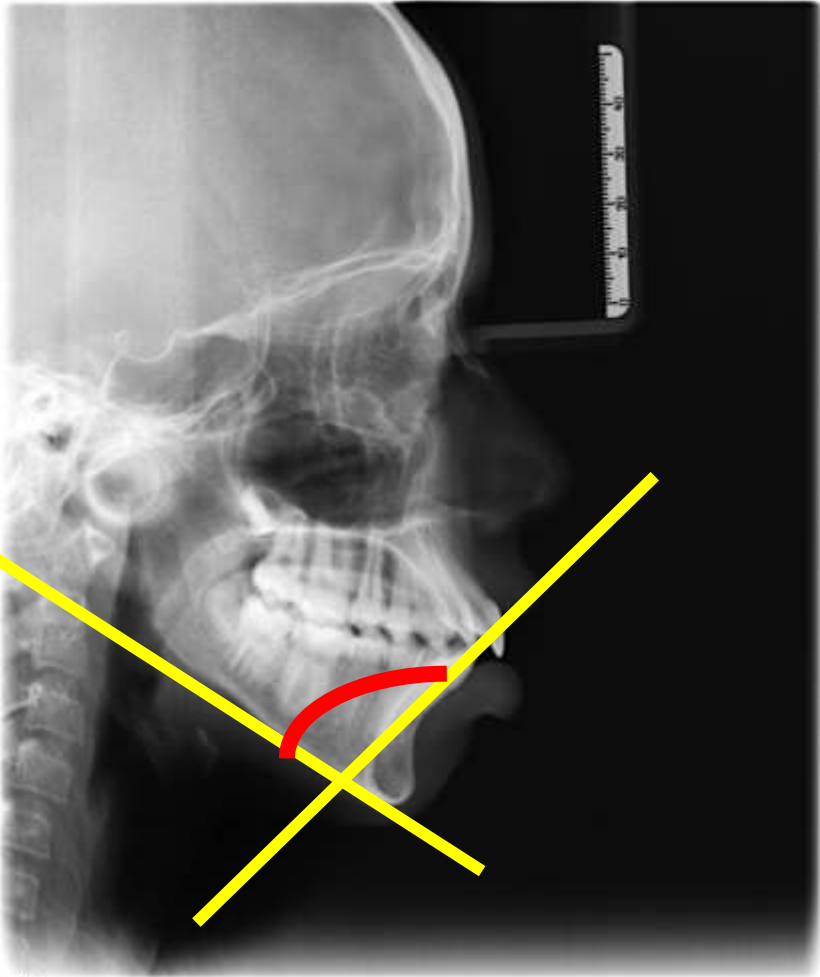


Tweed Charles H.
Clinical orthodontics. vol. 1. The C. V. Mosby Company, St. Louis 1966: 33

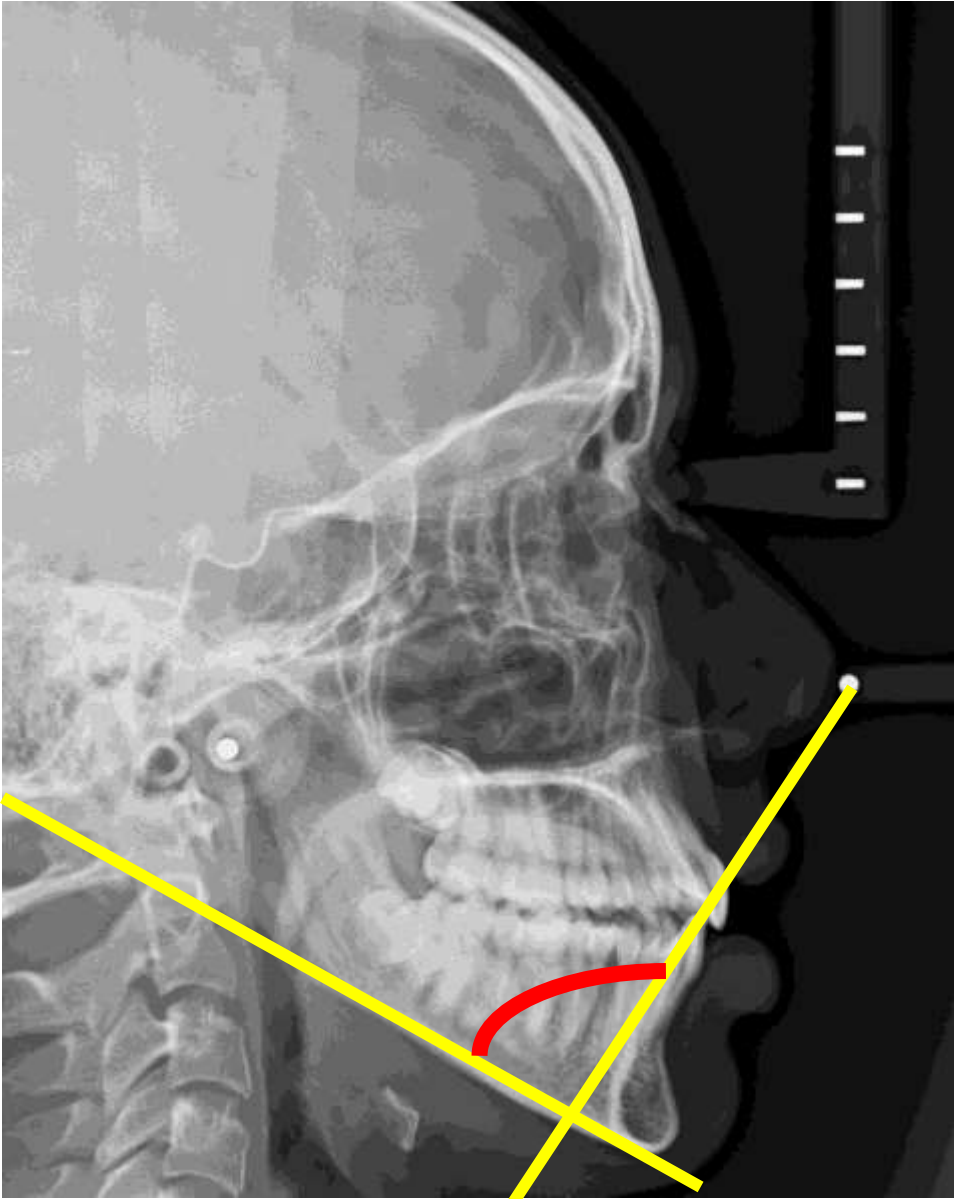
91



NORMAL: 90

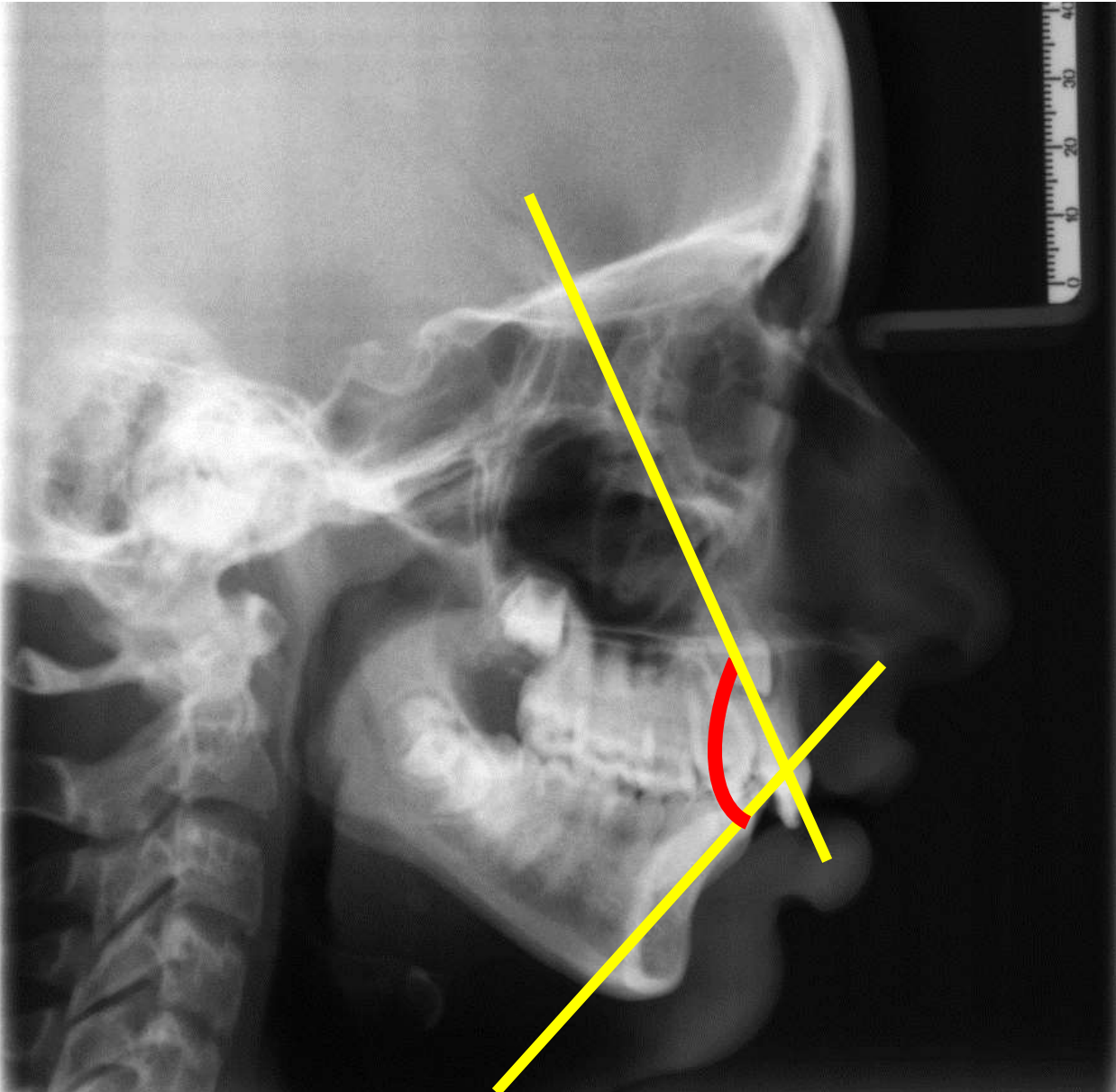


116



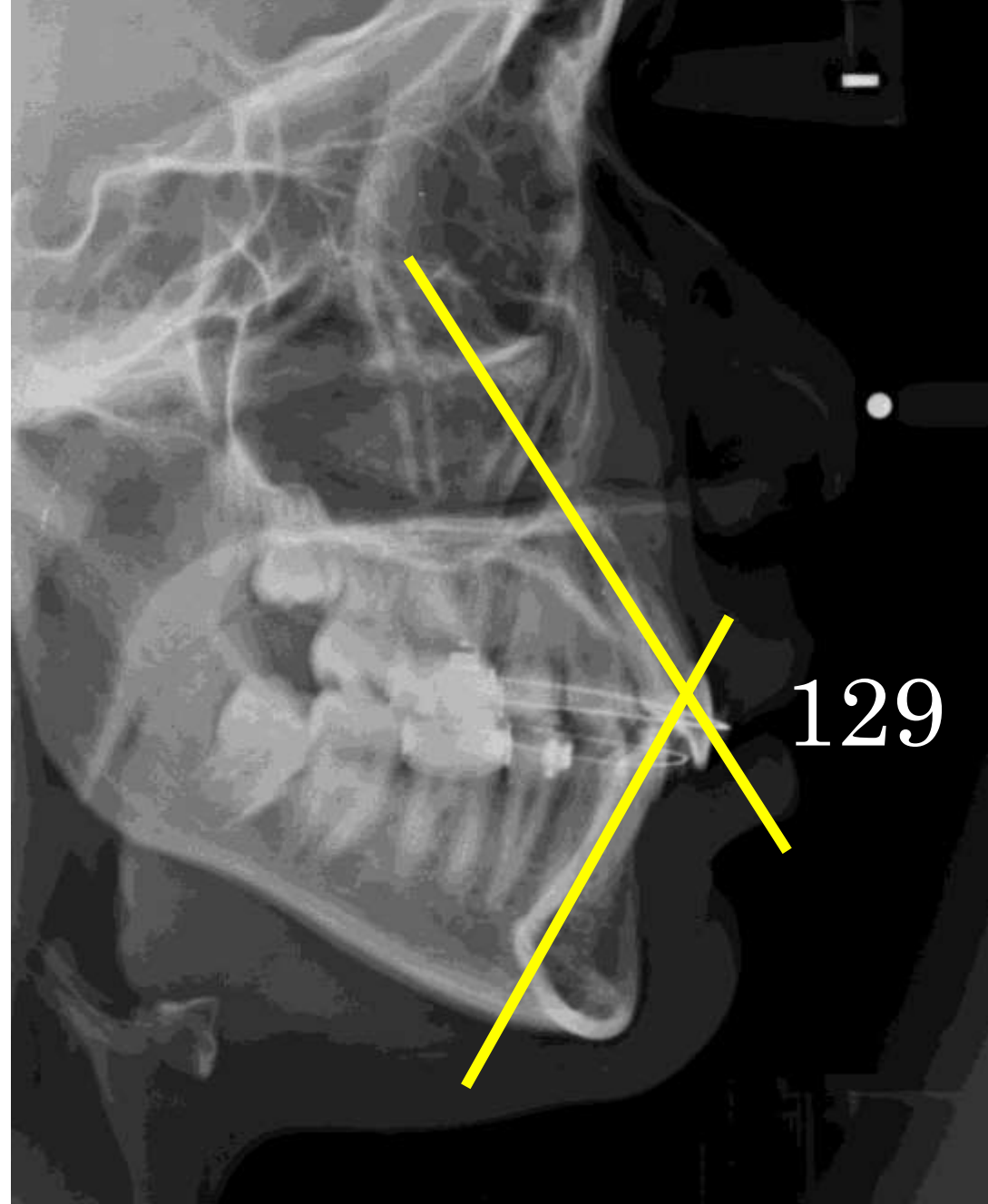
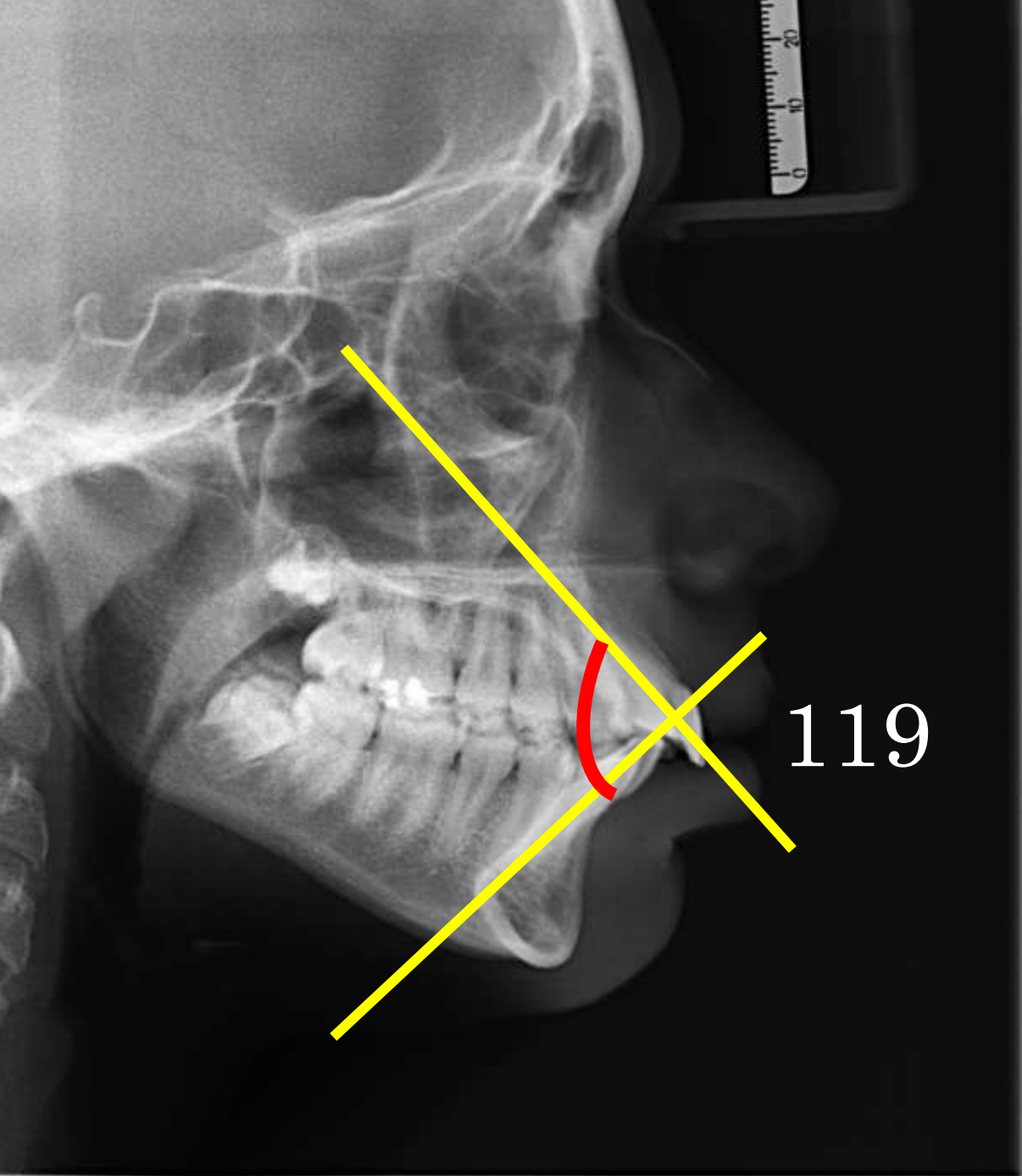
94

INTERINCISAL ANGLE



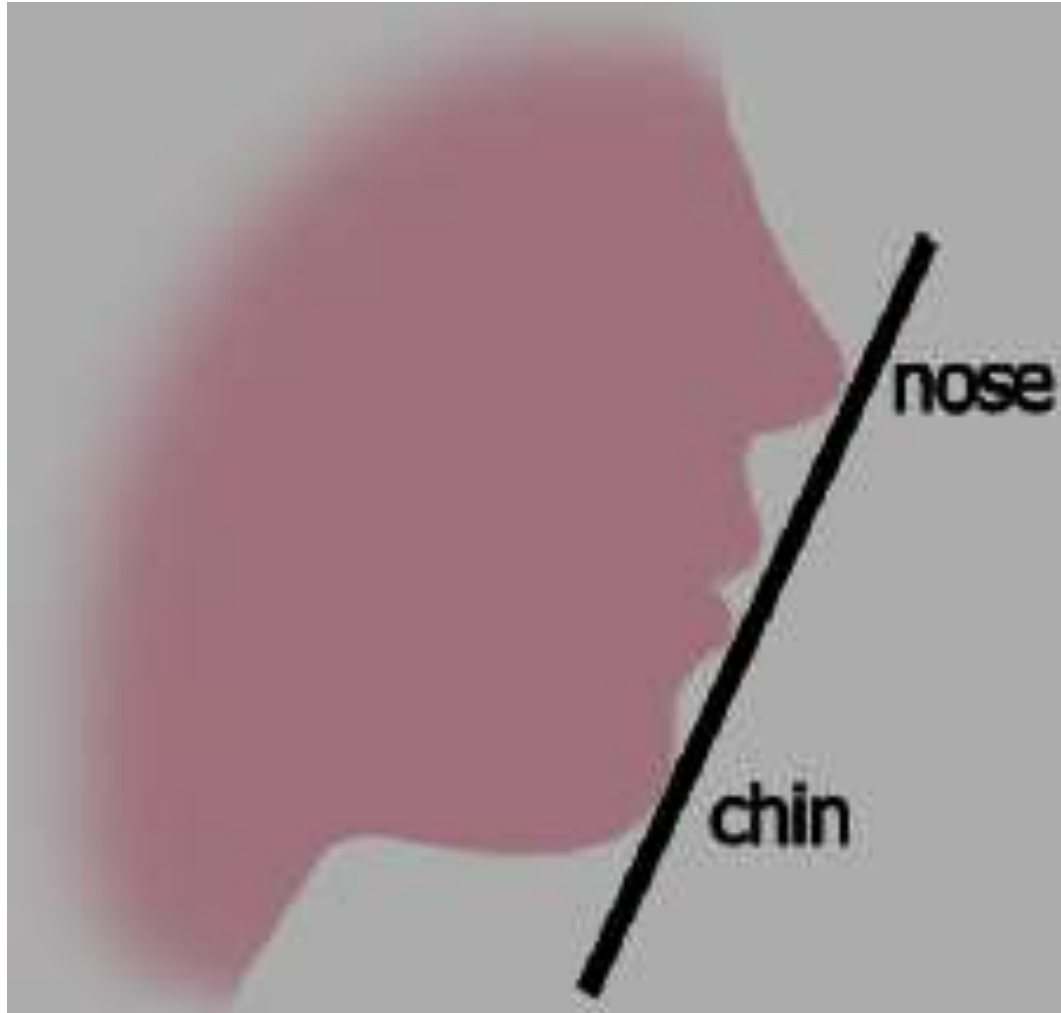
◉ Normal : 130

- Downs
- Stieners

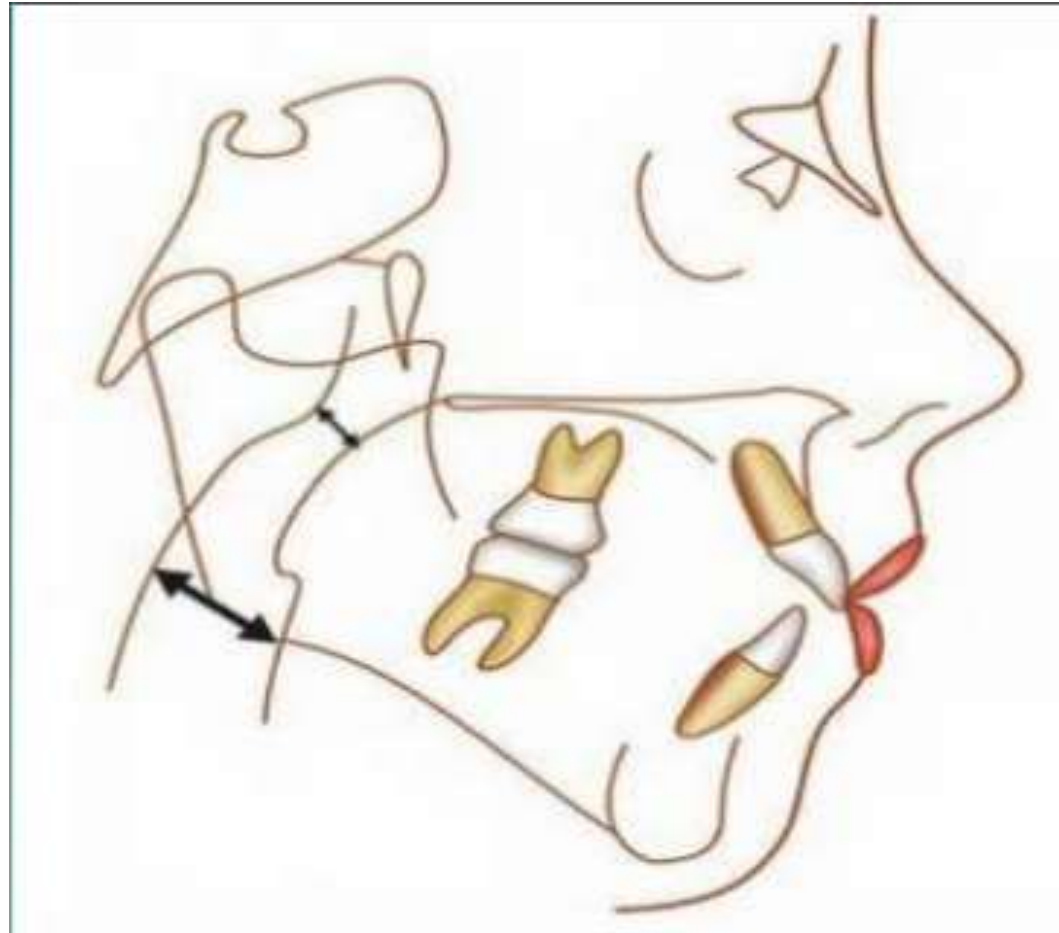


Rickets E line

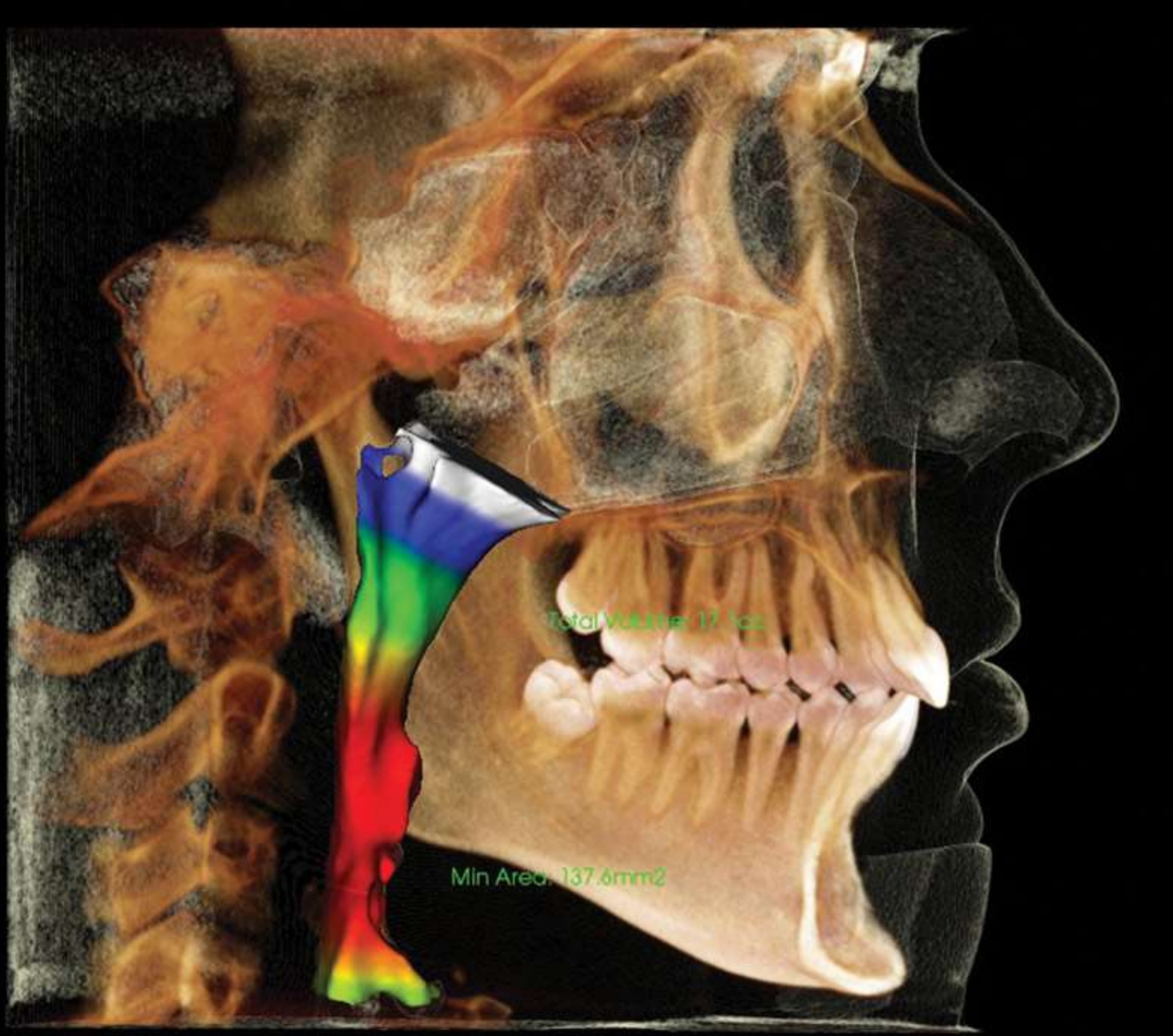
SOFT TISSUE



AIRWAY



McNamara, J. A.: A method of cephalometric evaluation. Am J Orthod. 1984; 86 (6): 449–469.



> Eur J Orthod. 2019 Jan 23;41(1):101-108. doi: 10.1093/ejo/cjy058.

Reliability of Upper Airway Assessment Using CBCT

Jason N Zimmerman ¹, Siddharth R Vora ¹, Benjamin T Pliska ¹

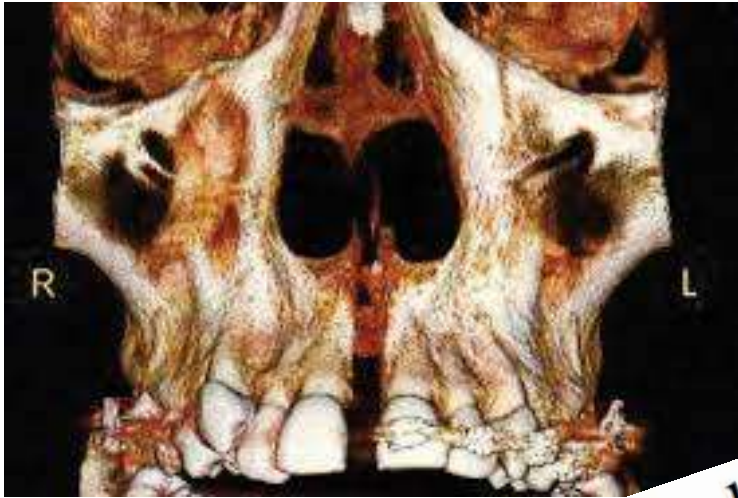
CEPHALOGRAM

LATERAL CEPHALOGRAM

FRONTAL CEPHALOGRAM



PA VIEW

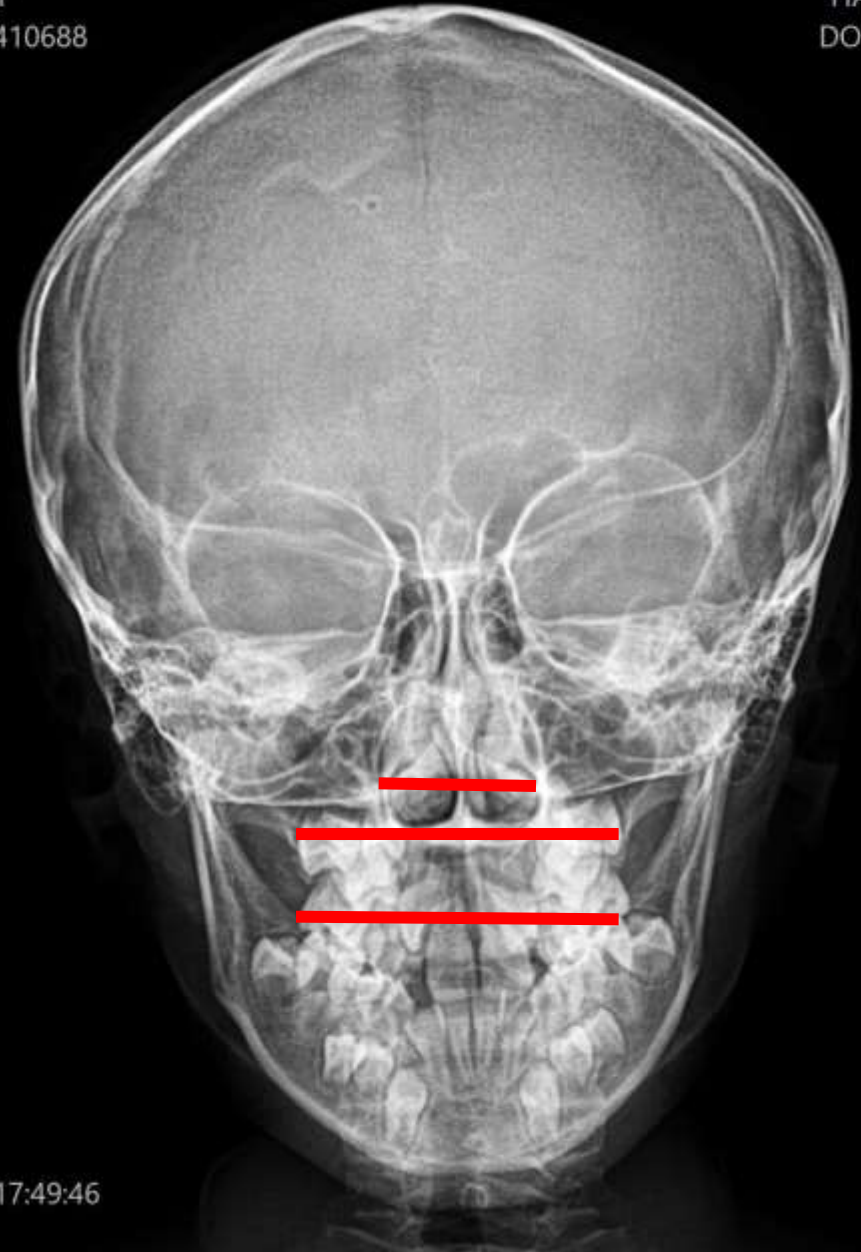


Cone-beam computerized tomography evaluation of the maxillary dentoskeletal complex after rapid palatal expansion

Armine Kartalian,^a Elizabeth Gohl,^a Melina Adamian,^b and Reyes Enciso^c
Los Angeles, Calif

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Im 2
administrator
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HI TECH DIAGNOSTIC CENTRE
39498 DR DEEPTHI PAUL
HANNA ANSAR
DOB 2011-09-12
F
8 Y



EXI 997
2019-09-12 17:49:46
SKULL

W 12718
L 8191
Z 100%
CW180'

SUMMARY

- ◉ Skeletal Parameters
- ◉ Dental Parameters
- ◉ Soft Tissue Parameters
- ◉ Airway
- ◉ Frontal Ceph

AIM OF EARLY INTERVENTION (AAPD)

- ◉ Health of teeth and oral structures
- ◉ Occlusal Harmony and function
- ◉ Dentofacial esthetics (Facial and Jaw Proportions)

AAPD Guideline 2016



NAMES YOU CAN NOT FORGET

- ◎ **Roentgen 1895** (*“On a New Kind of Rays” Science 14 Feb 1896: Vol. 3, Issue 59, pp. 227-231 DOI: 10.1126/science.3.59.227*)
- ◎ **A J Pacini and Carrera 1922** : *First Xray Picture of Skull (Roentgen Ray Anthropometry of the Skull. J. Radiol. 1922; 3: 230-238)*
- ◎ **Broadbent 1931** (*A new Xray Tech and its application to orthodontia. Angle Orthod 1:45-60*)
- ◎ **Hofrath 1931** (*Fortschritte Der Orthodontie in German*)



ANALYSIS

- ◉ **William Downs (1948)** *Variations in facial relationships: their significance in treatment and prognosis. Am J Orthod. 1948;34(10):812-40.*
- ◉ **Steiner (1953)** *Cephalometrics clinical practice. Angle Orthod. 1959;29(1):8-29.*
- ◉ **Tweed (1954)** *The Frankfort-mandibular plane angle in orthodontic diagnosis, classification, treatment planning, and prognosis. Am J Orthod Oral Surg. 1946;32:175-230*
- ◉ **Sassouni (1955)** A roentgenographic cephalometric analysis of cephalo-facio-dental relationships Viken Sassouni. DOI: [http://org/10.1016/0002-9416\(55\) 90171-8](http://org/10.1016/0002-9416(55) 90171-8)



GOALS OF CEPHALOMETRICS

- ◉ To evaluate the transverse/sagittal relationships between

Maxilla /Mandible

Maxilla and Maxillary teeth

Mandible and mandibular teeth

Cranial base to Maxilla and Mandible

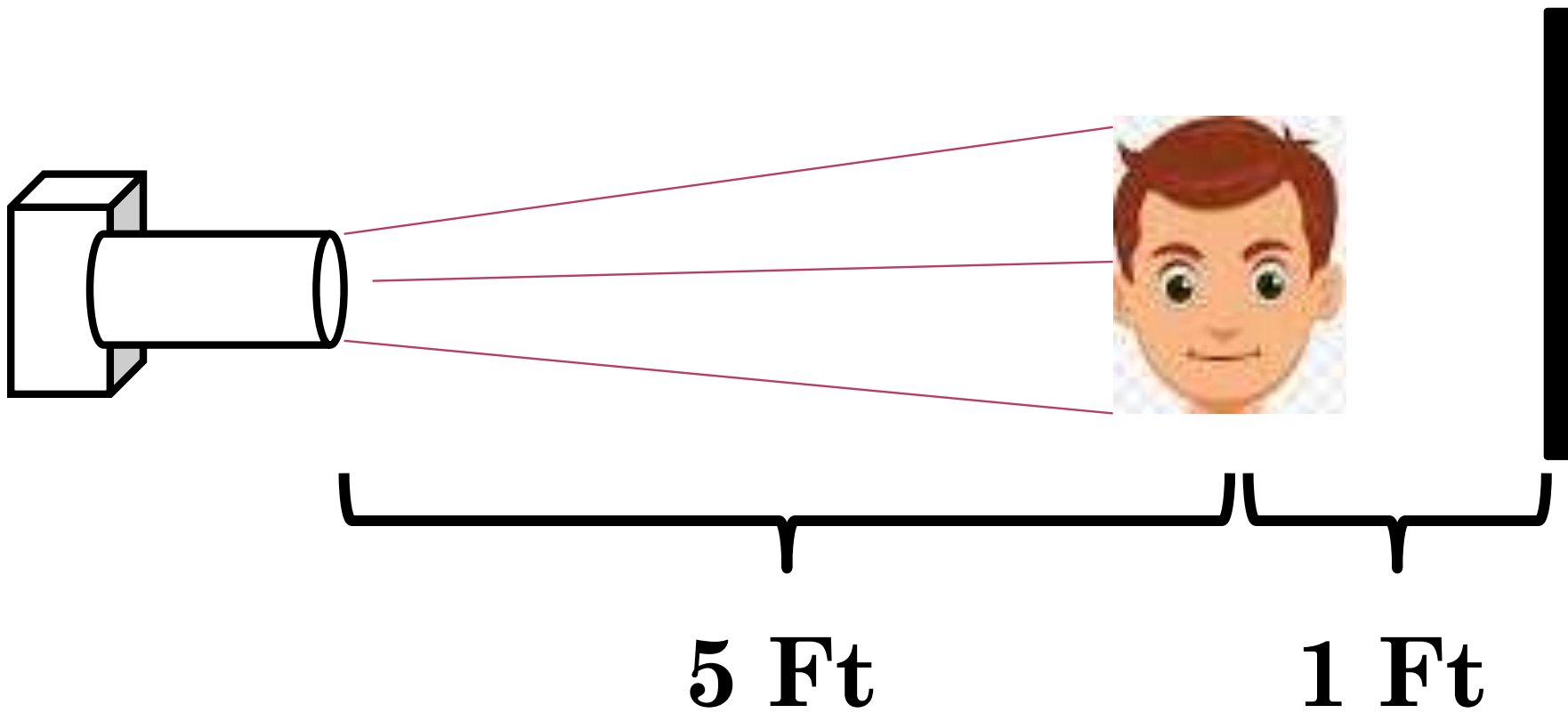
PROFFIT TEXTBOOK OF ORTHODONTICS 5th Edition



IMAGING SYSTEM

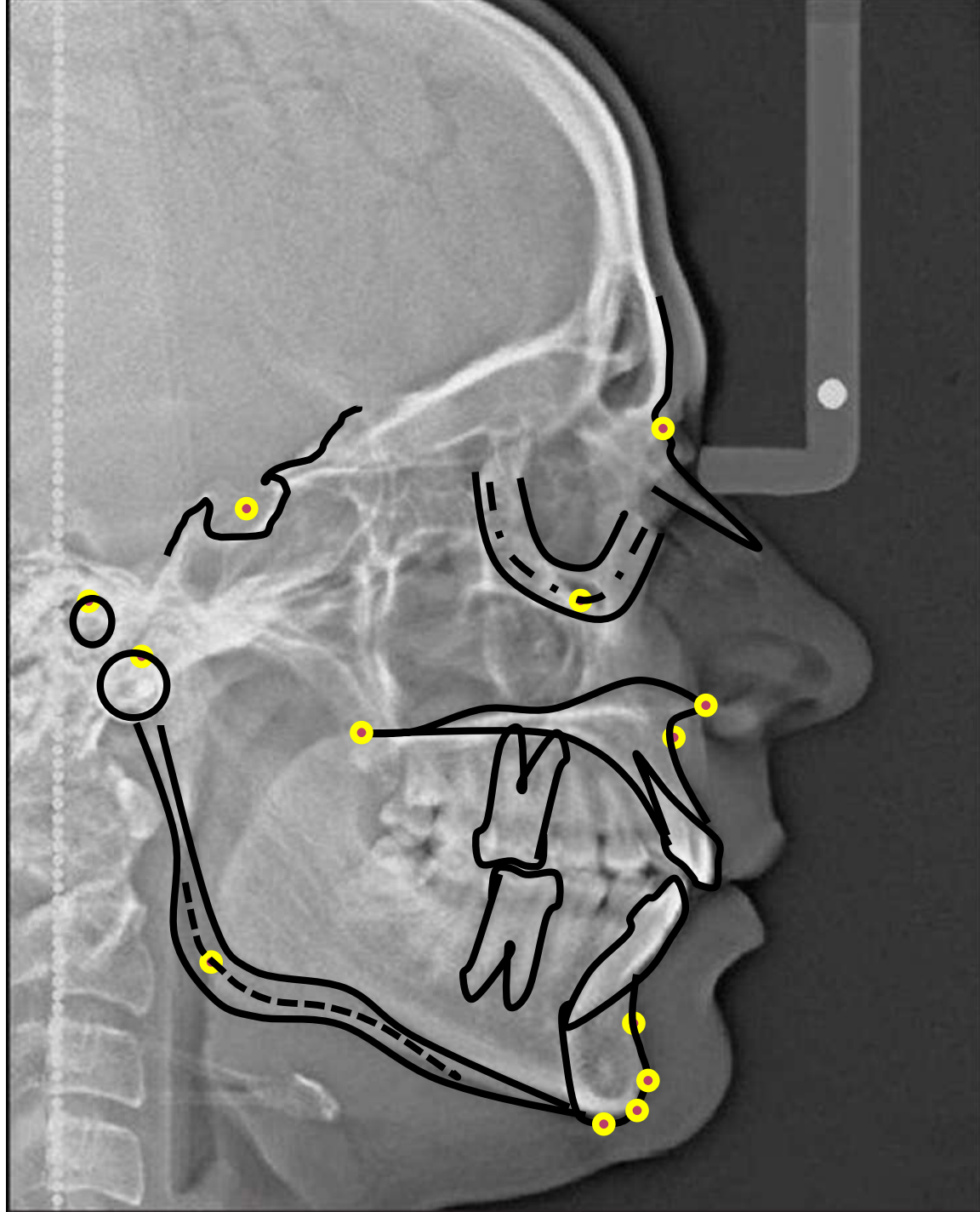


Taking

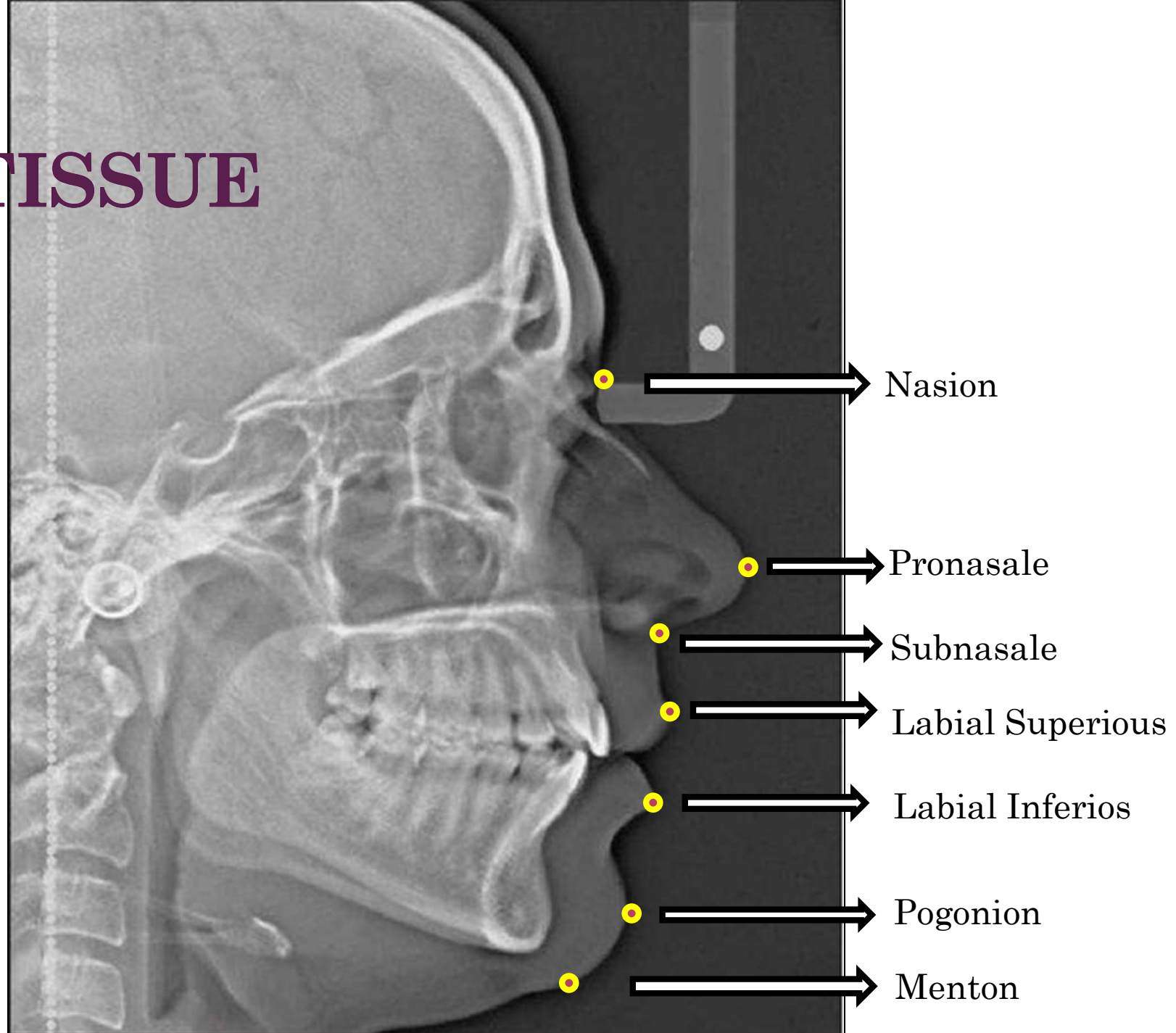


LANDMARKS





SOFT TISSUE





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Kerala Dental Clinic- Go
Green

Latest in dentistry



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Dr Binu T Abraham

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