

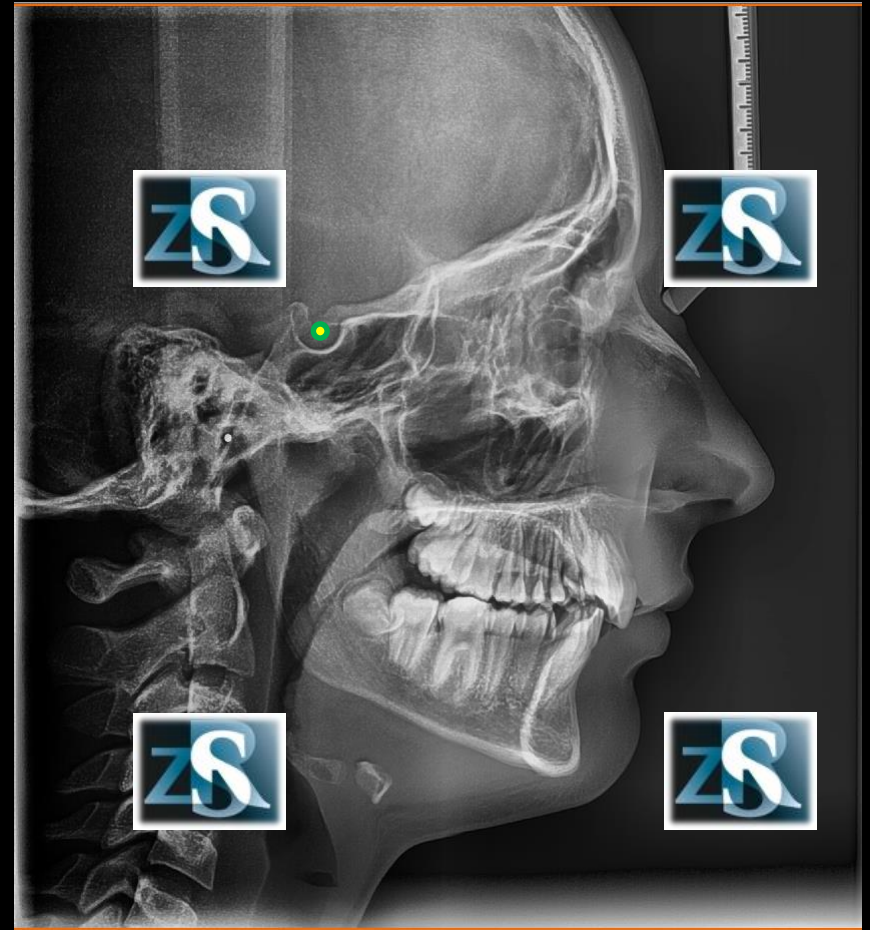
# Basic cephalometric analysis

Based on Essentials of Dental  
Radiography by E. Whates

# CEPHALOMETRIC POINTS

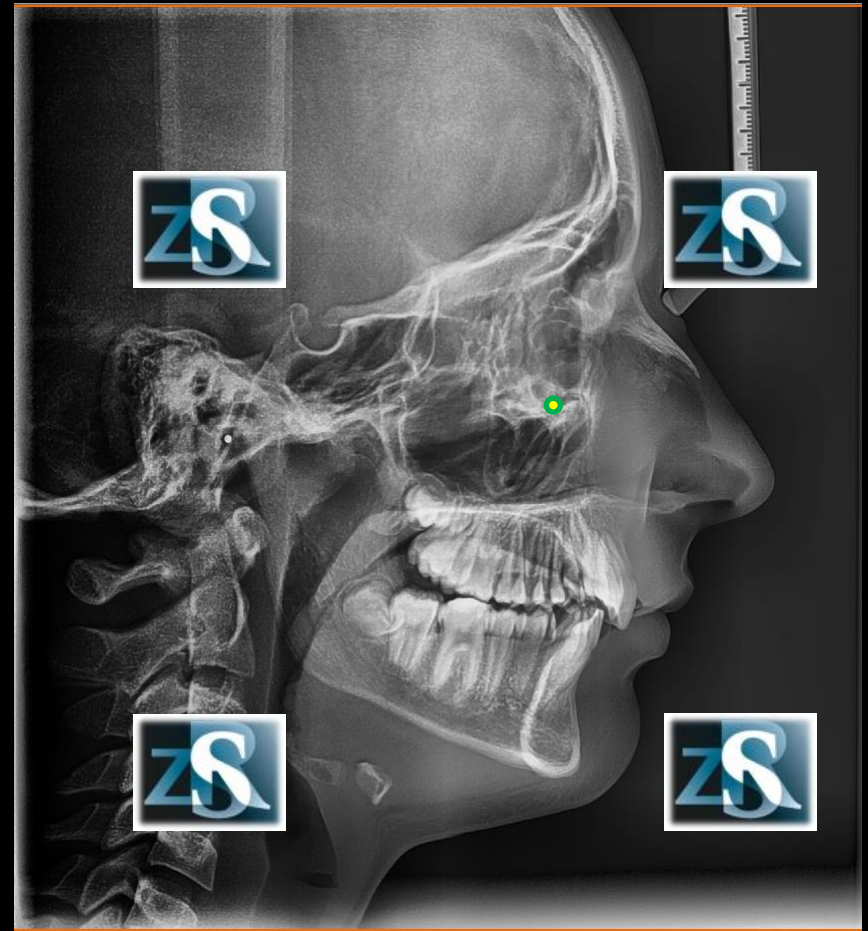
# Sella (S)

- The center of the sella turcica



# Orbitale (Or)

- The lowest point on the infraorbital margin



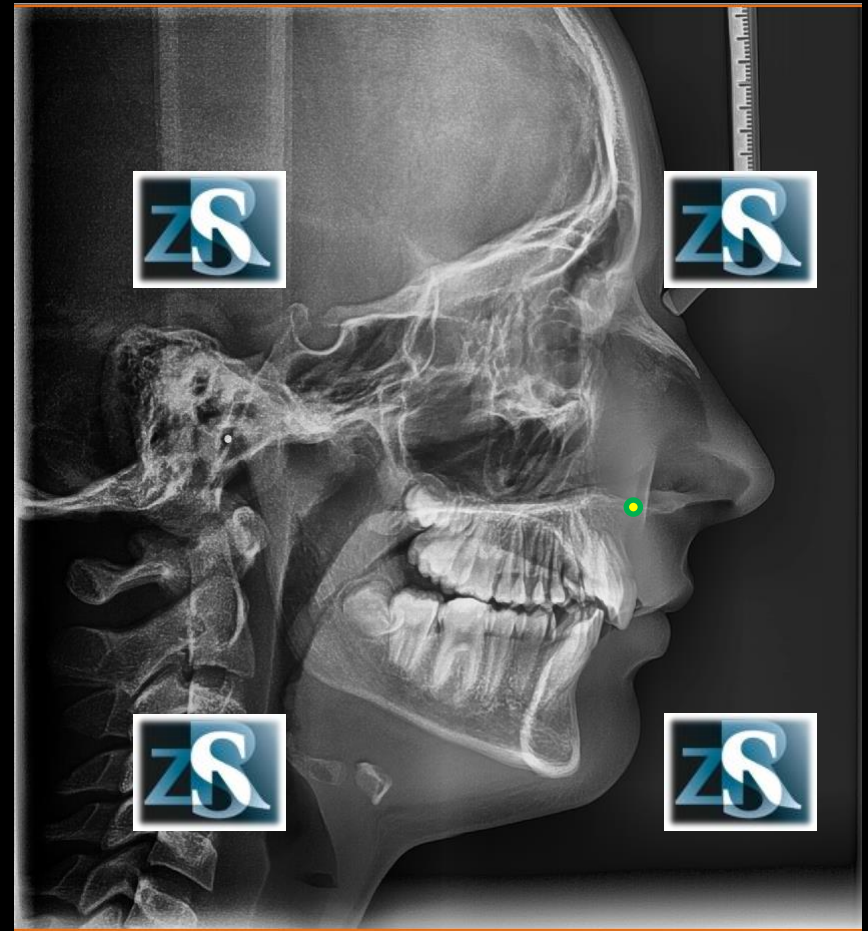
# Nasion (N)

- The most anterior point on the frontonasal suture



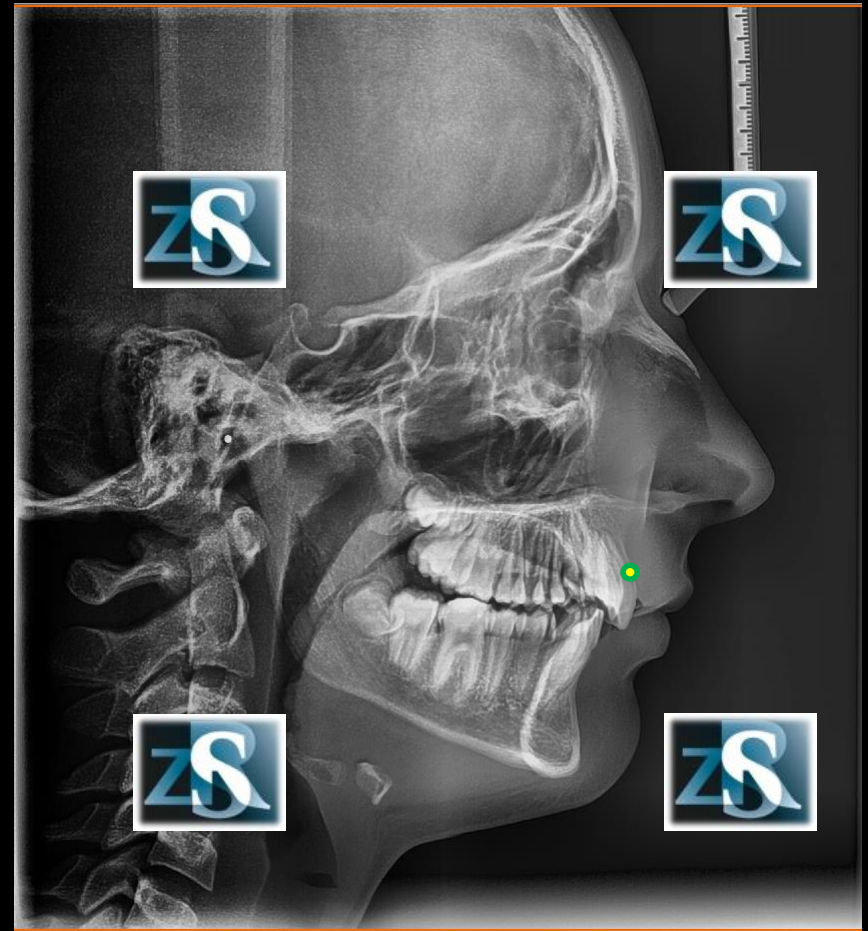
# Anterior nasal spine (ANS)

- The tip of the anterior nasal spine



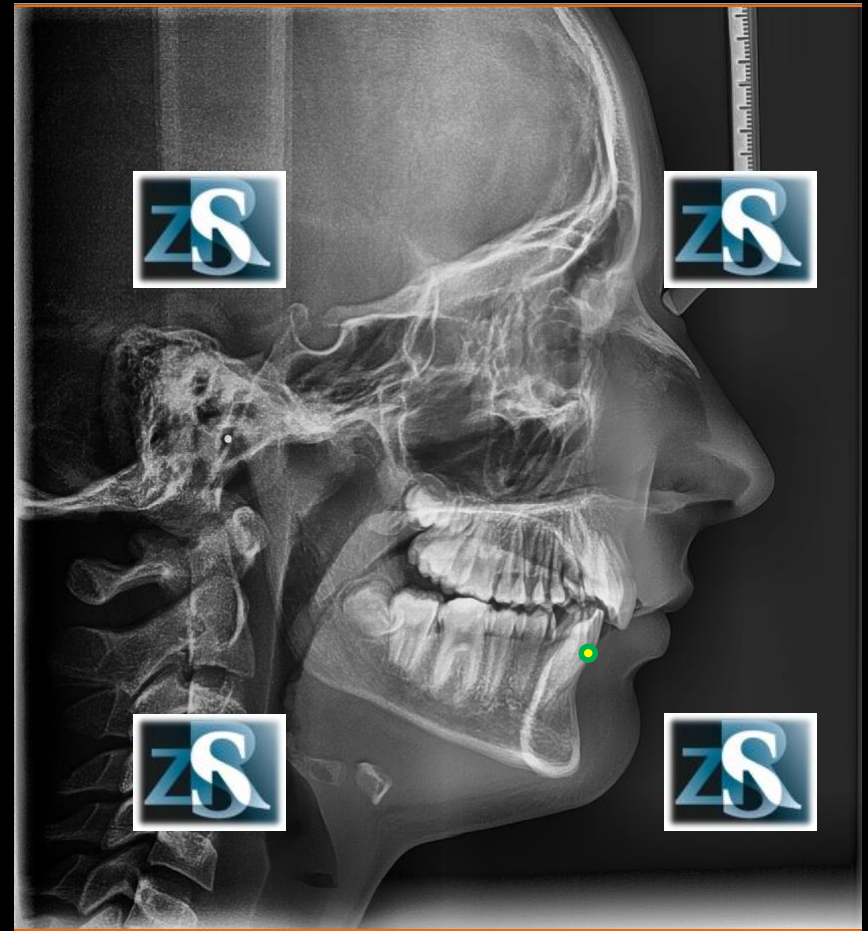
# Prosthion (Pr)

- The most anterior point of the alveolar crest in the premaxilla, usually between the upper central incisors



# Infradentale (Id)

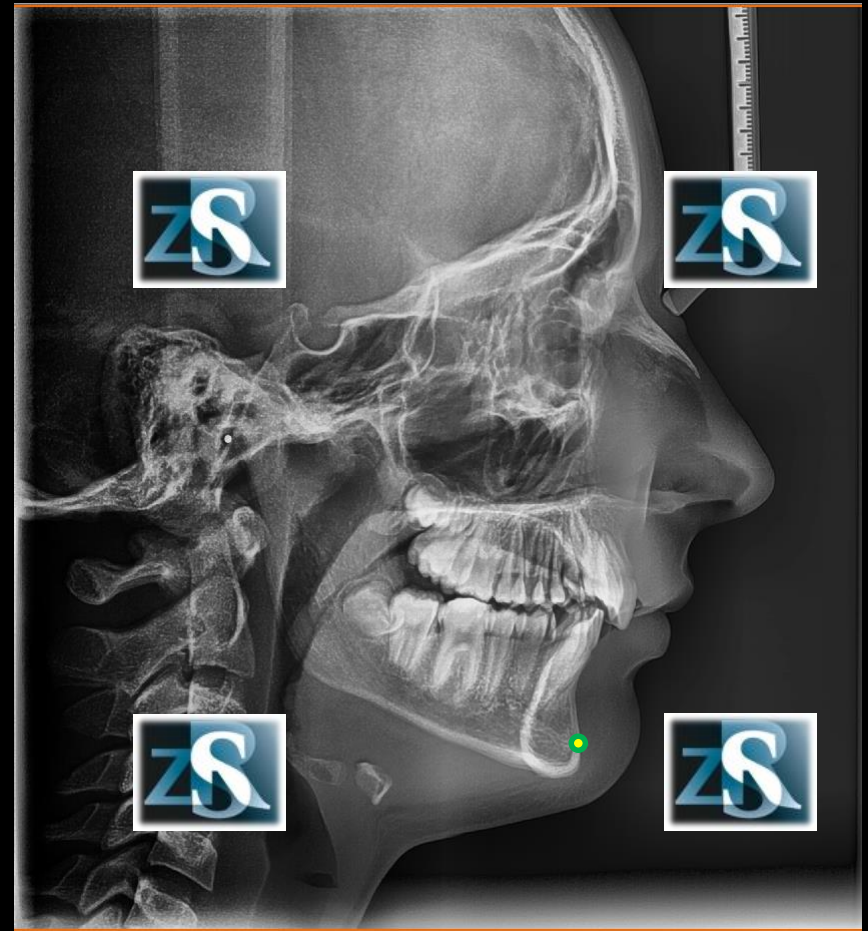
- The most anterior point of the alveolar crest, situated between the lower central incisors





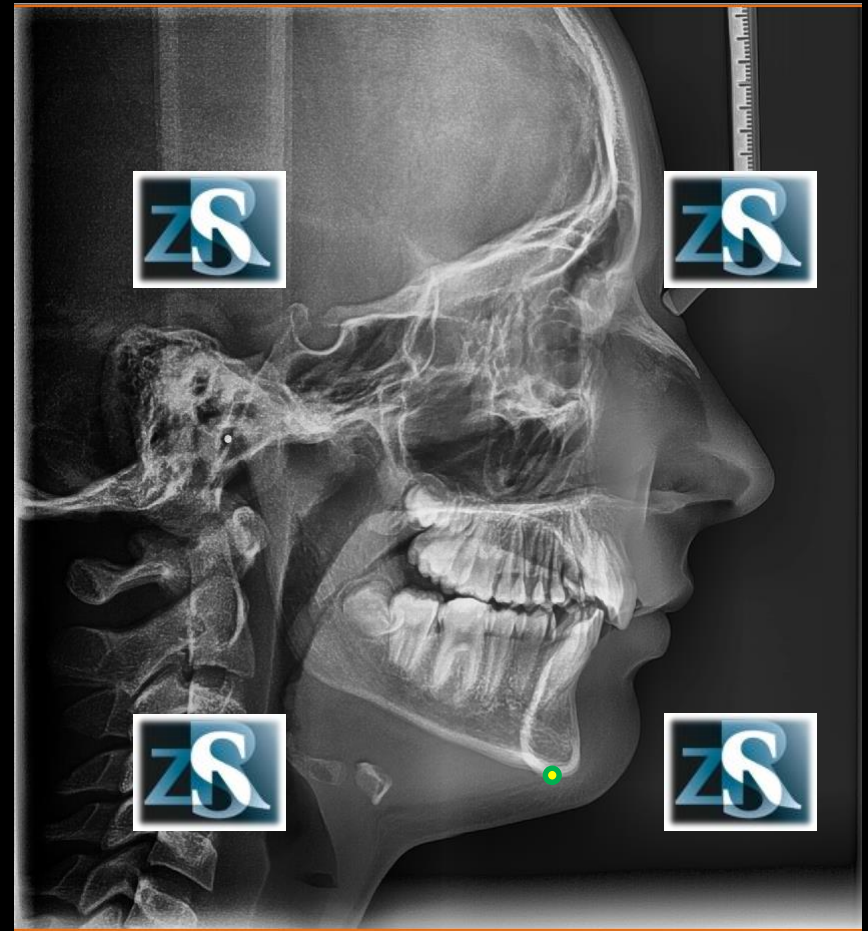
# Pogonion (Pog)

- The most anterior point of the bony chin



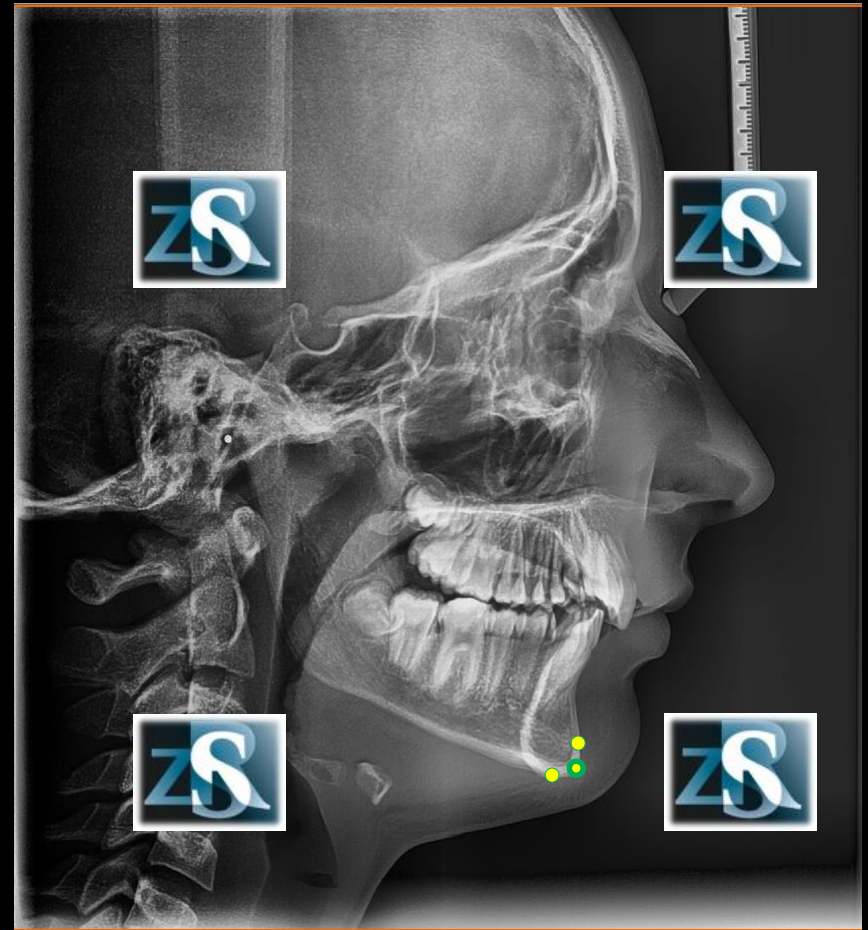
# Menton (Me)

- The lowest point on the bony outline of the mandibular symphysis



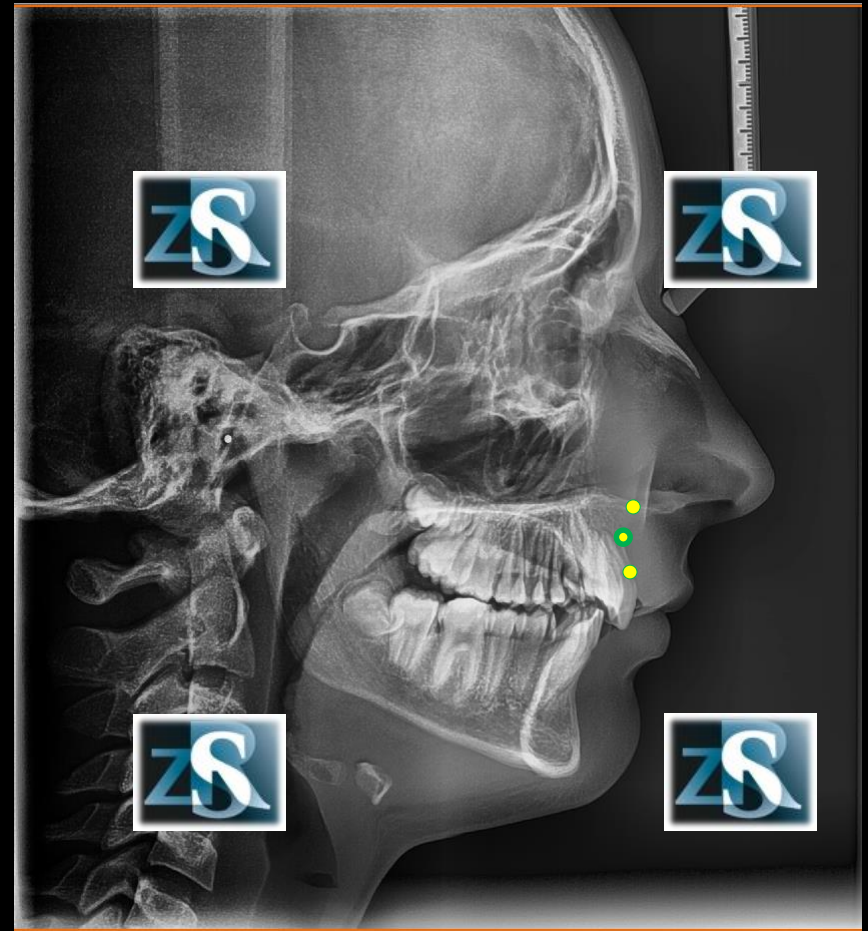
# Gnathion (Gn)

- The most anterior and inferior point of the bony outline of the chin, situated equidistant from pogonion and menton



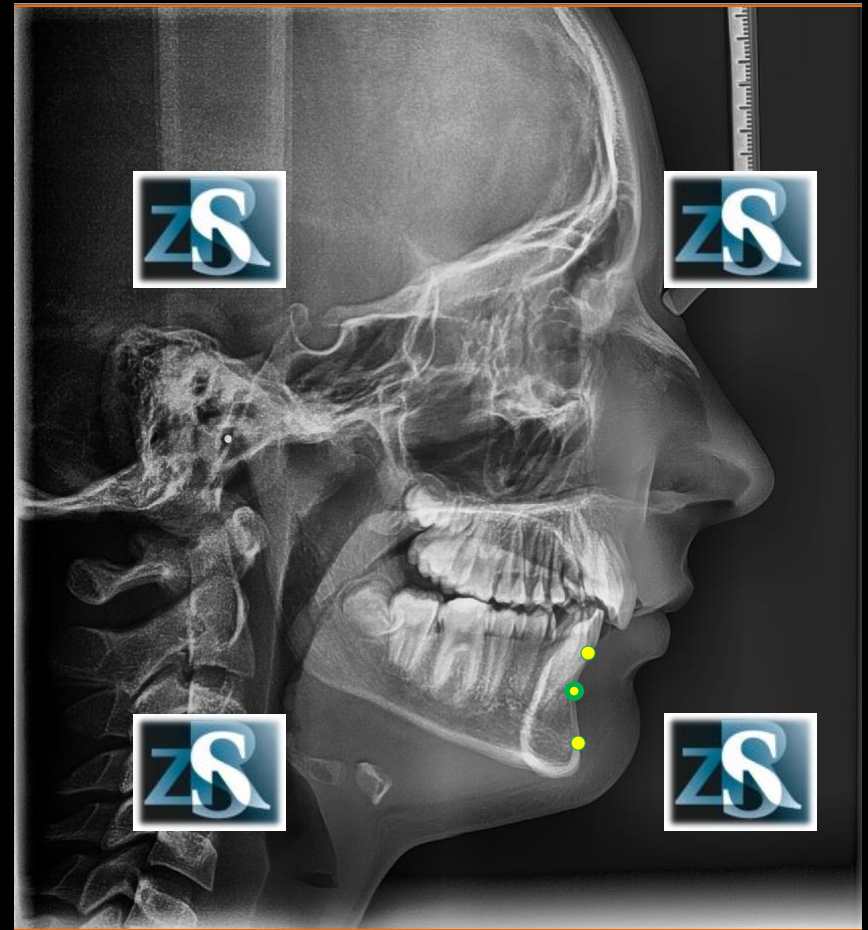
# Subspinale / point A

- The deepest midline point between the anterior nasal spine and prosthion



# Supramentale / point B

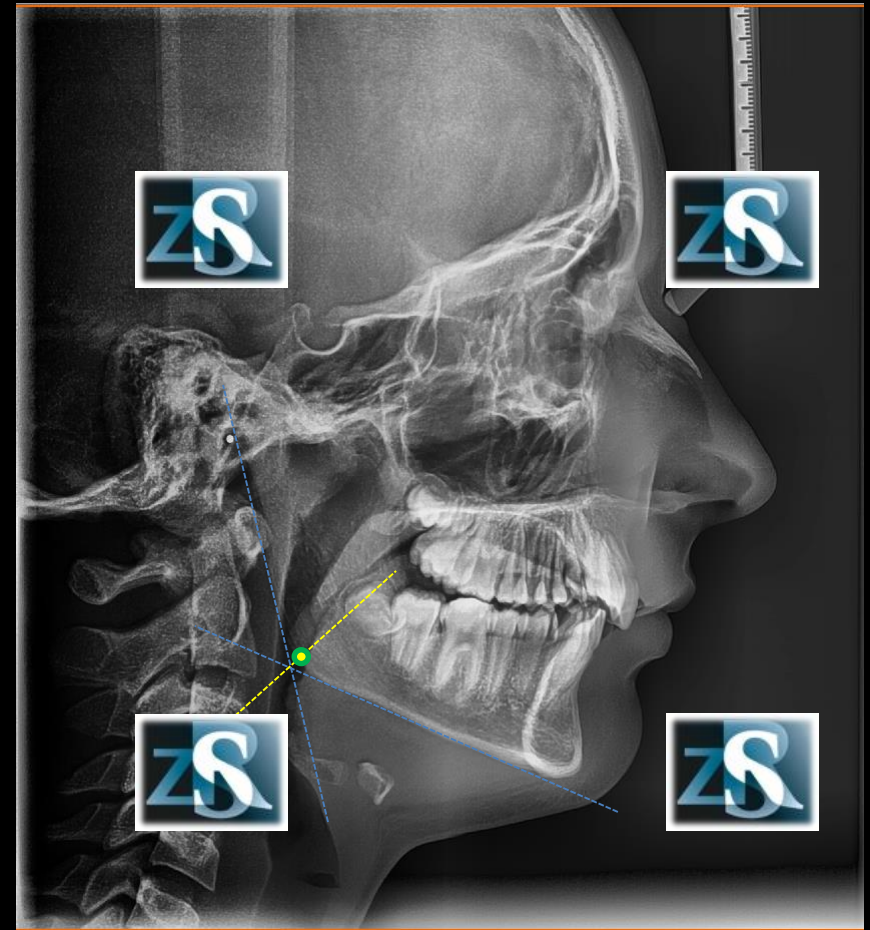
- The deepest point in the bony outline between the *infradentale* and the *pogonion*





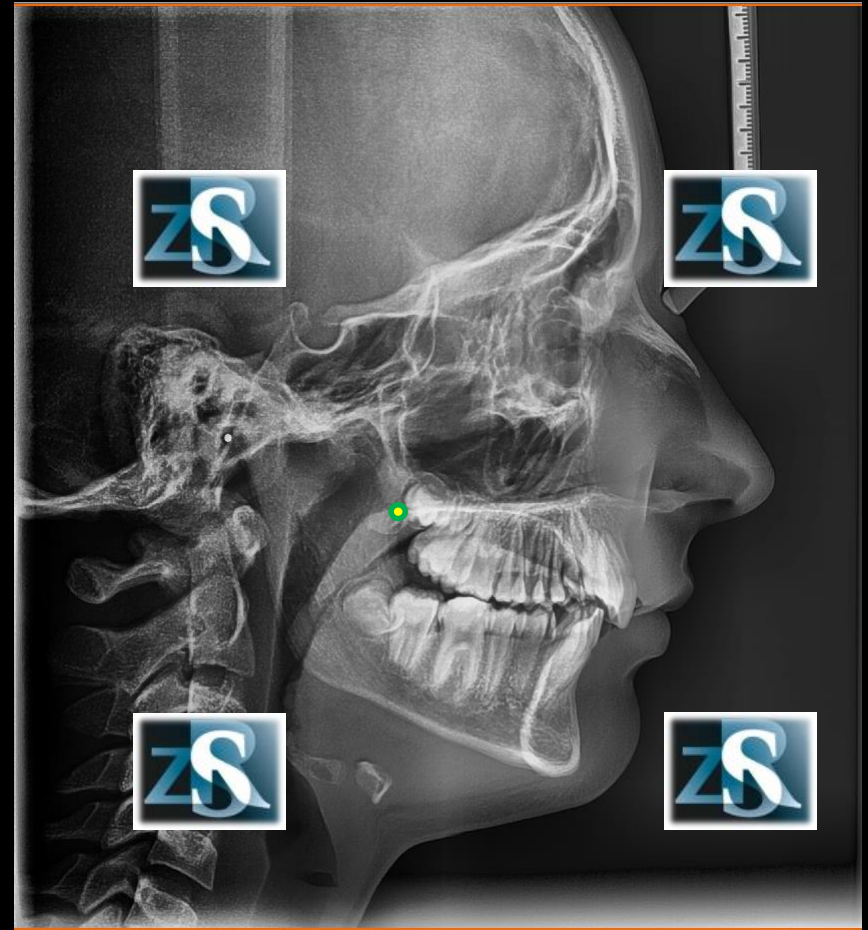
# Gonion (Go)

- The most lateral external point at the junction of the horizontal and ascending rami of the mandible. The *gonion* is found by bisecting the angle formed by tangents to the posterior and inferior borders of the mandible.



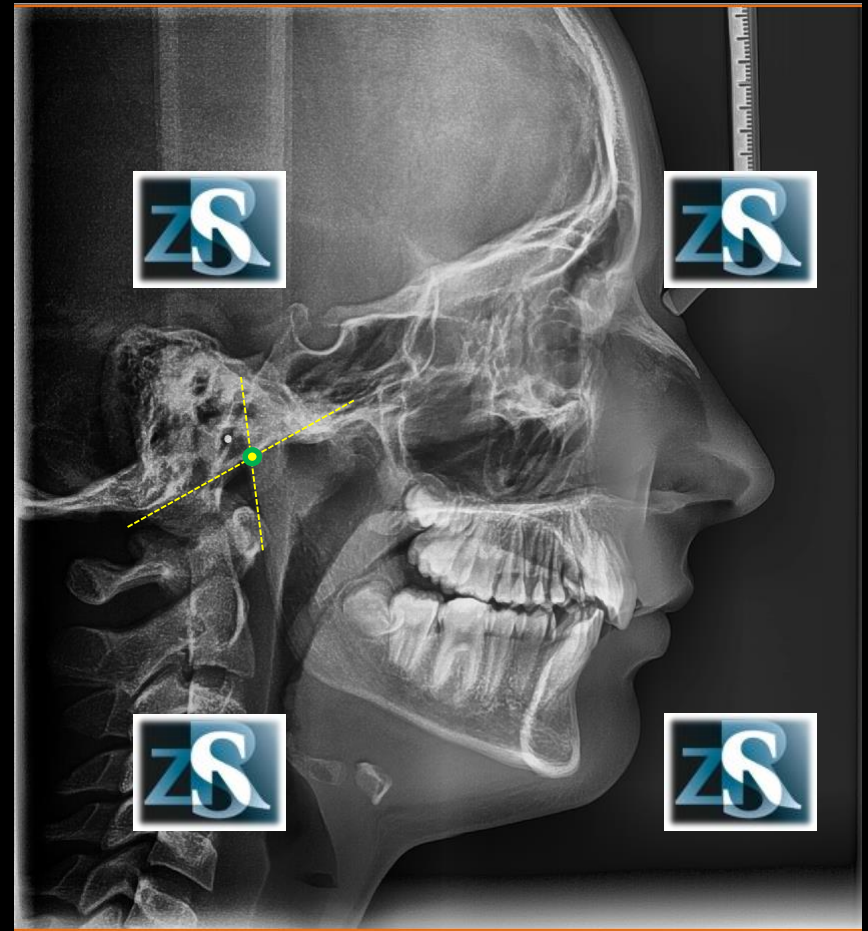
# Posterior nasal spine (PNS)

- The tip of the posterior spine of the palatine bone in the hard palate.



# Articulare

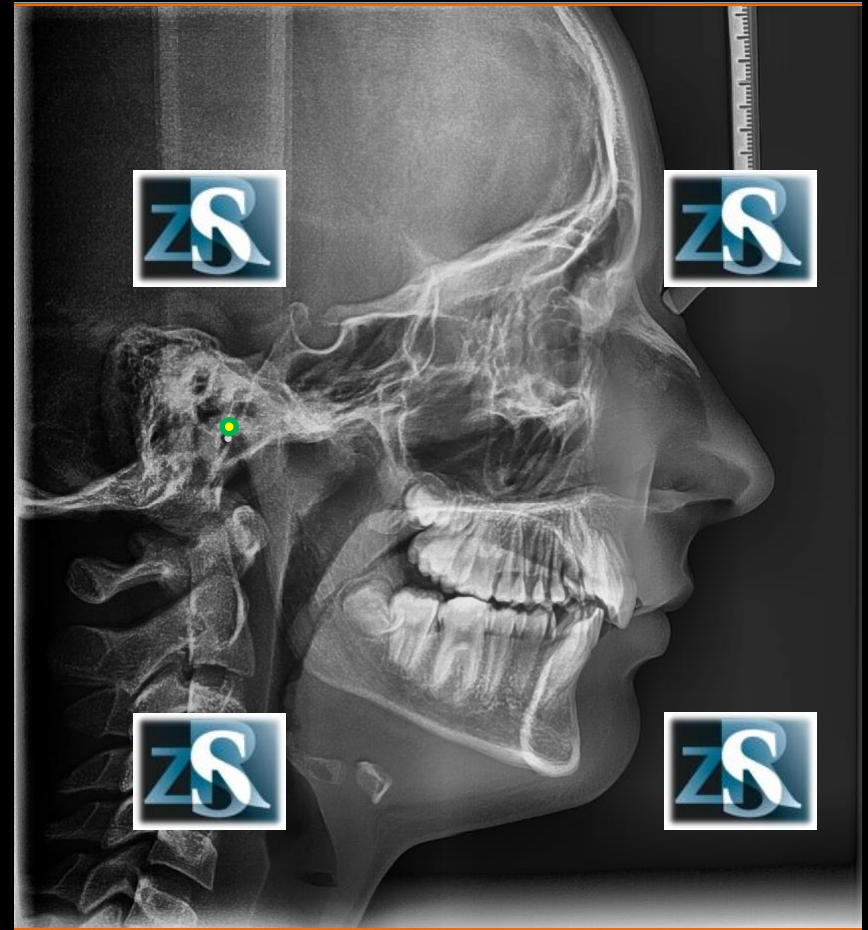
- The point of intersection of the dorsal contours of the posterior border of the mandible and temporal bone.





# Porion (Po)

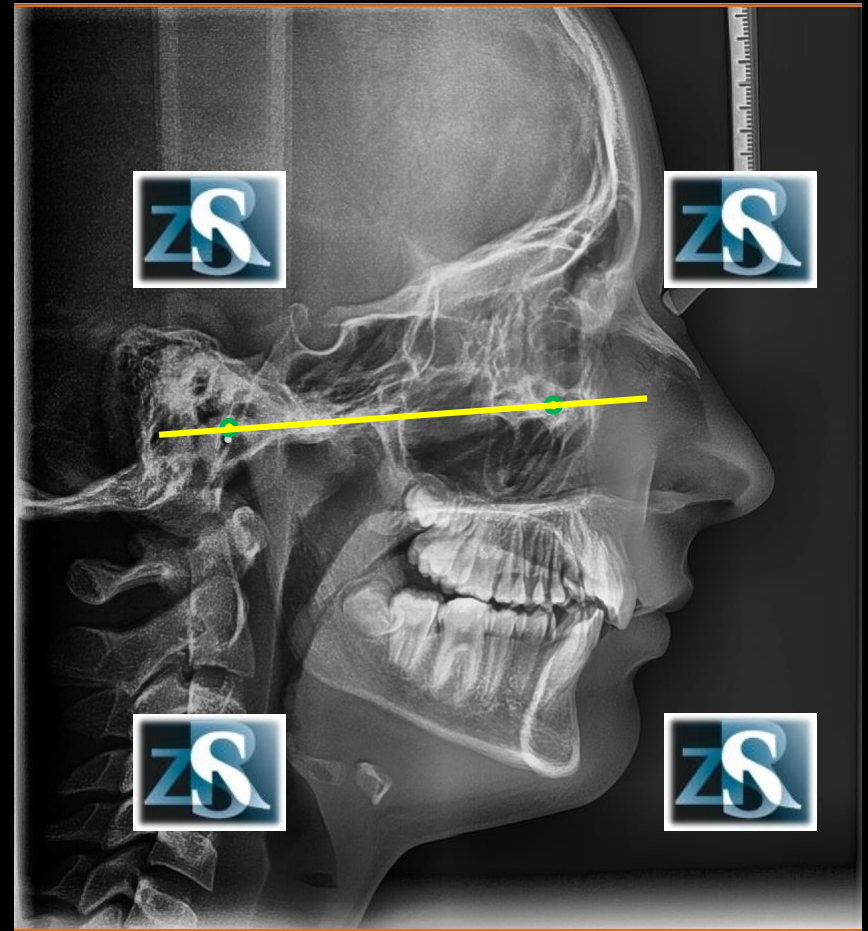
- The uppermost point of the bony external auditory meatus.



**PLANES**

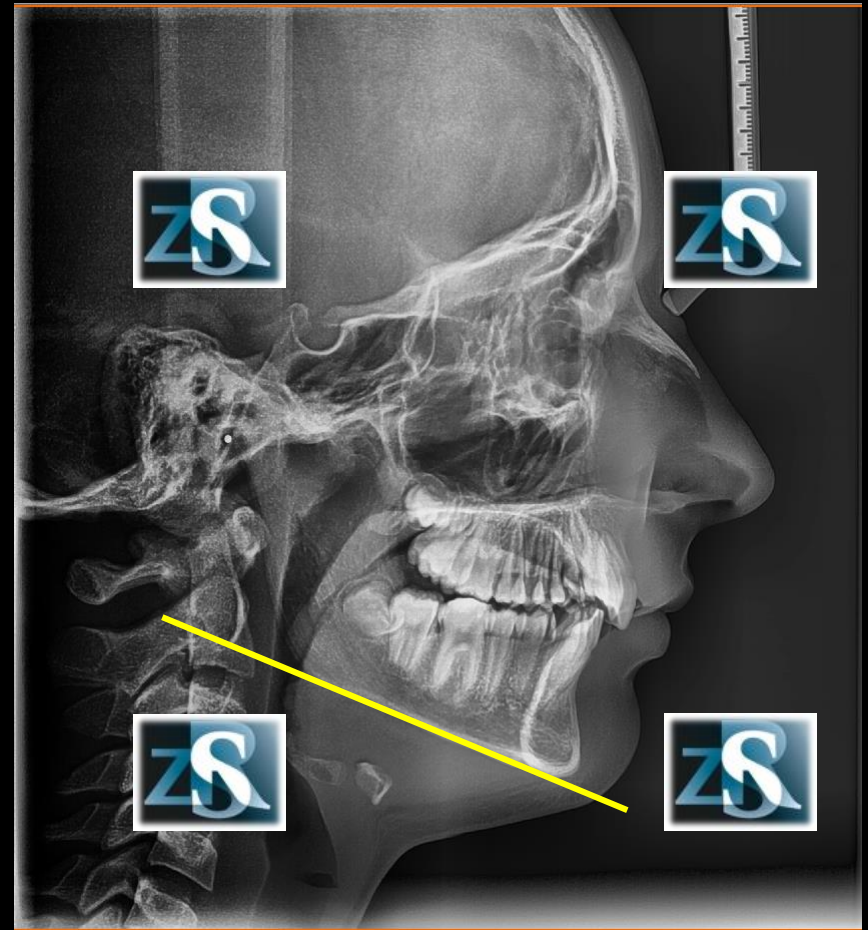
# Frankfort plane

- A transverse plane through the skull represented by the line joining *porion* and *orbitale*



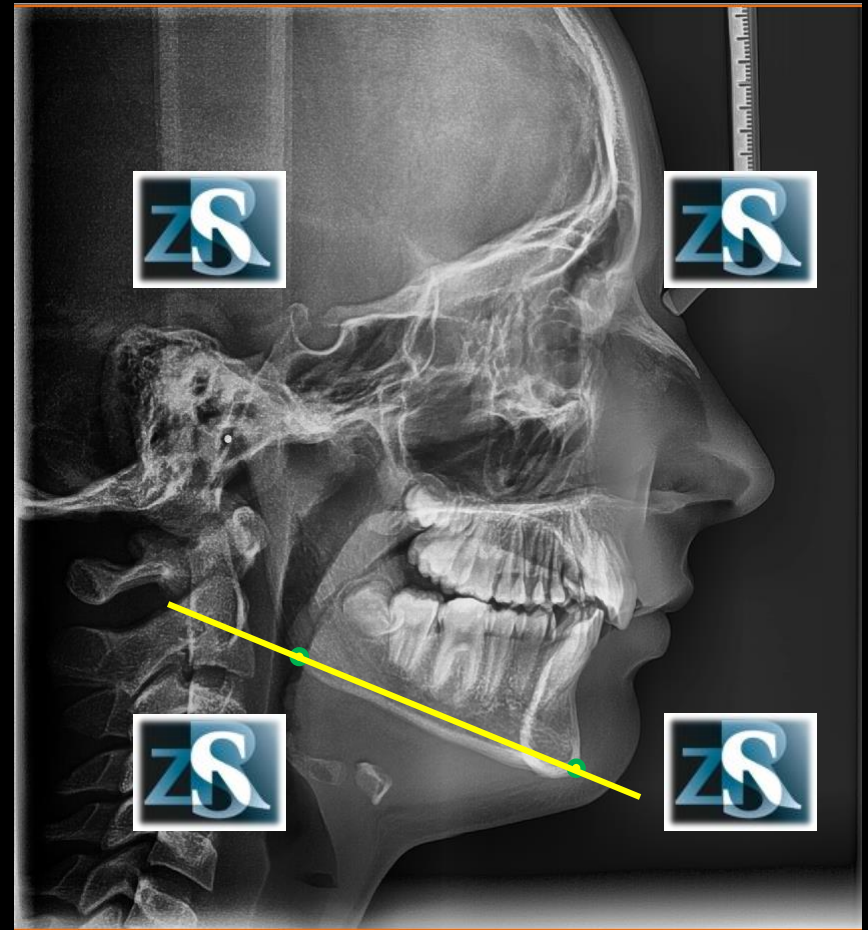
# Mandibular plane 1

- A transverse plane through the skull representing the lower border of the horizontal ramus of the mandible.
- A tangent to the lower border of the mandible



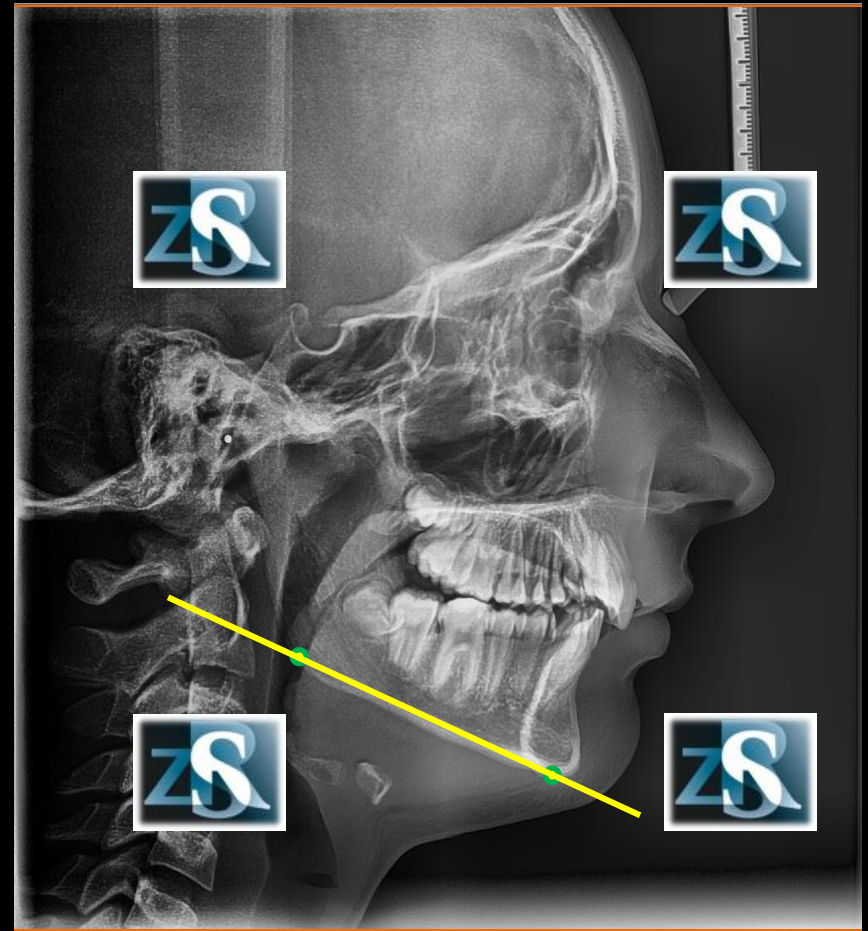
# Mandibular plane 2

- A transverse plane through the skull representing the lower border of the horizontal ramus of the mandible
- A line joining *gnathion* and *gonion*



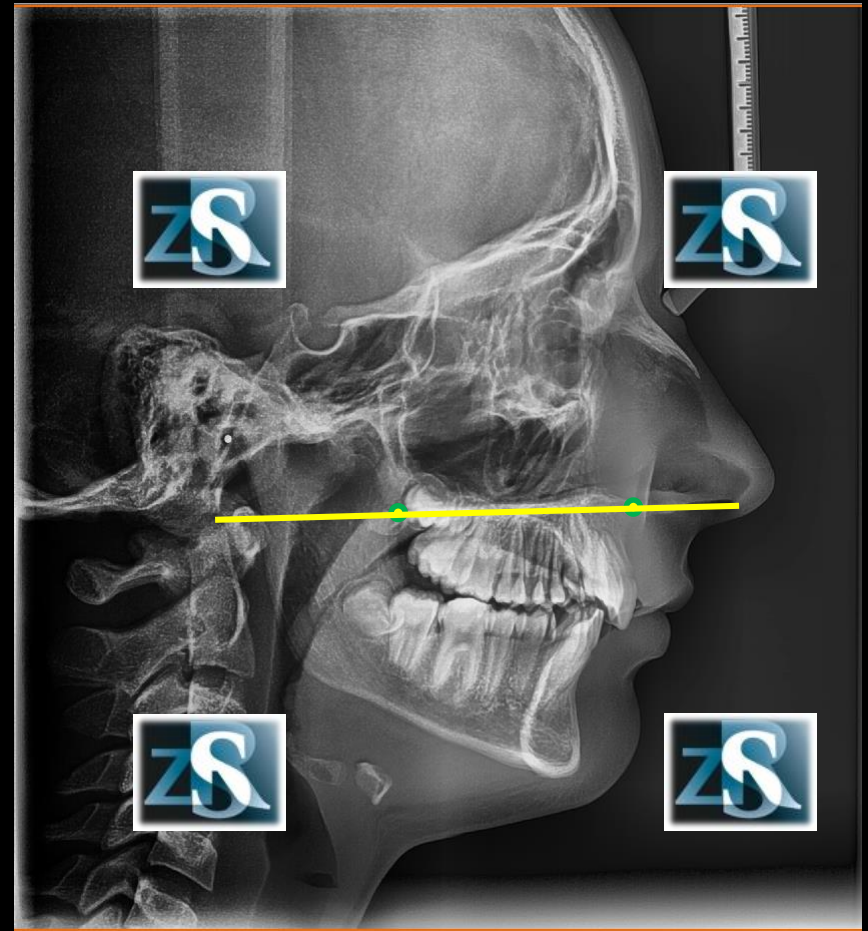
# Mandibular plane 3

- A transverse plane through the skull representing the lower border of the horizontal ramus of the mandible
- A line joining menton and gonion



# Maxillary plane

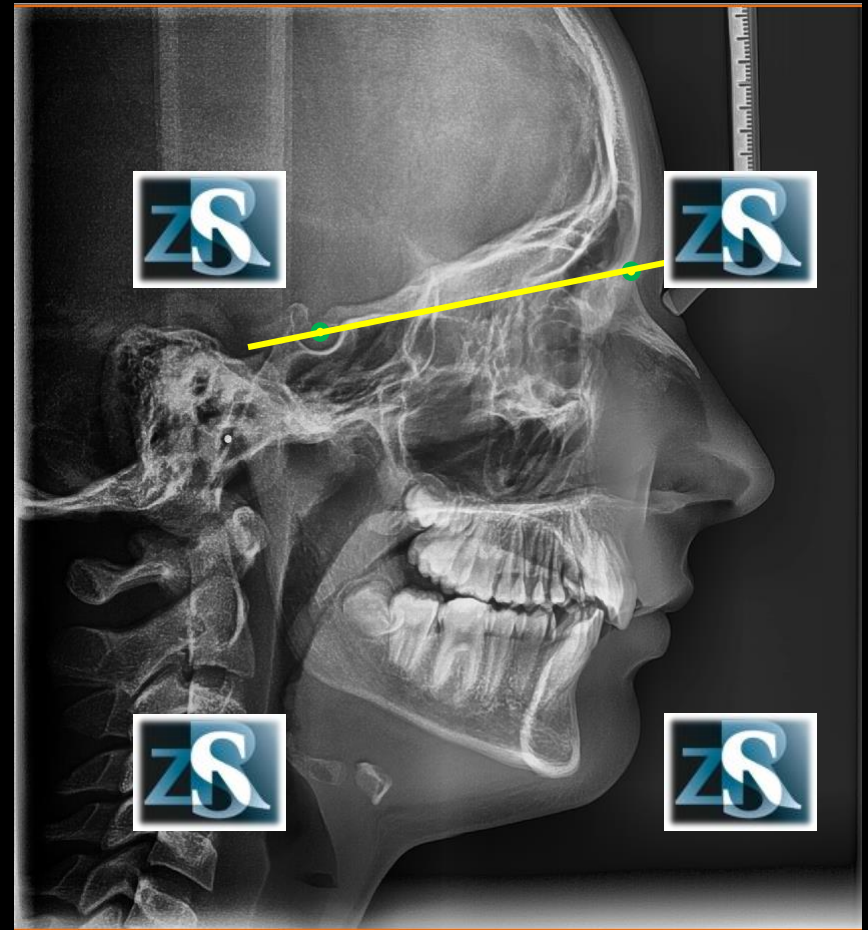
- A transverse plane through the skull joining the *anterior* and *posterior nasal spines*



# Sella-Nasion plane

## SN plane

- A transverse plane through the skull joining sella and nasion

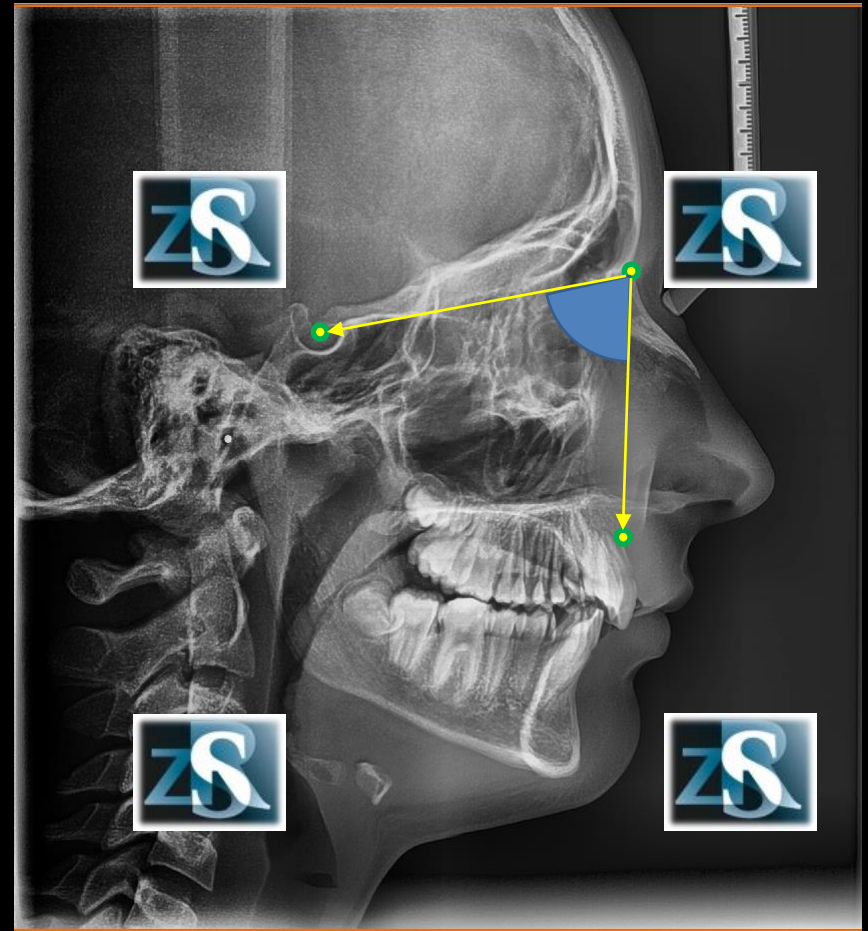




**ANGLES**

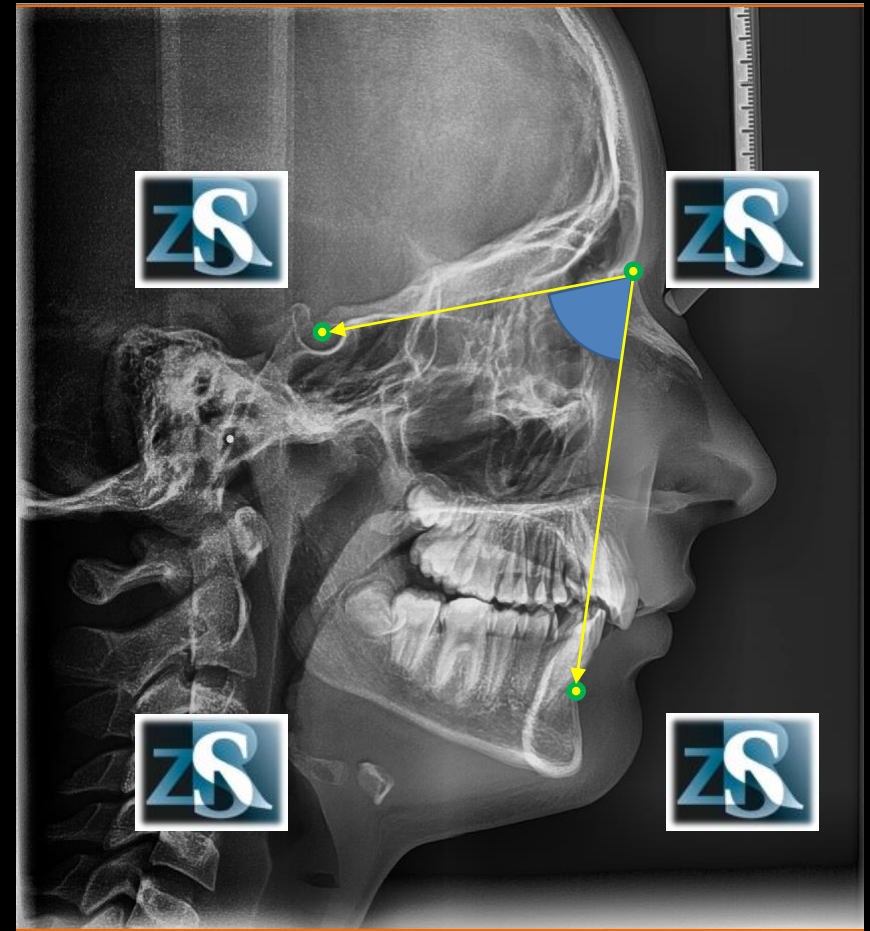
# SNA (*Sella-Nasale-A*)

- Relates to the aneroposterior position of the maxilla



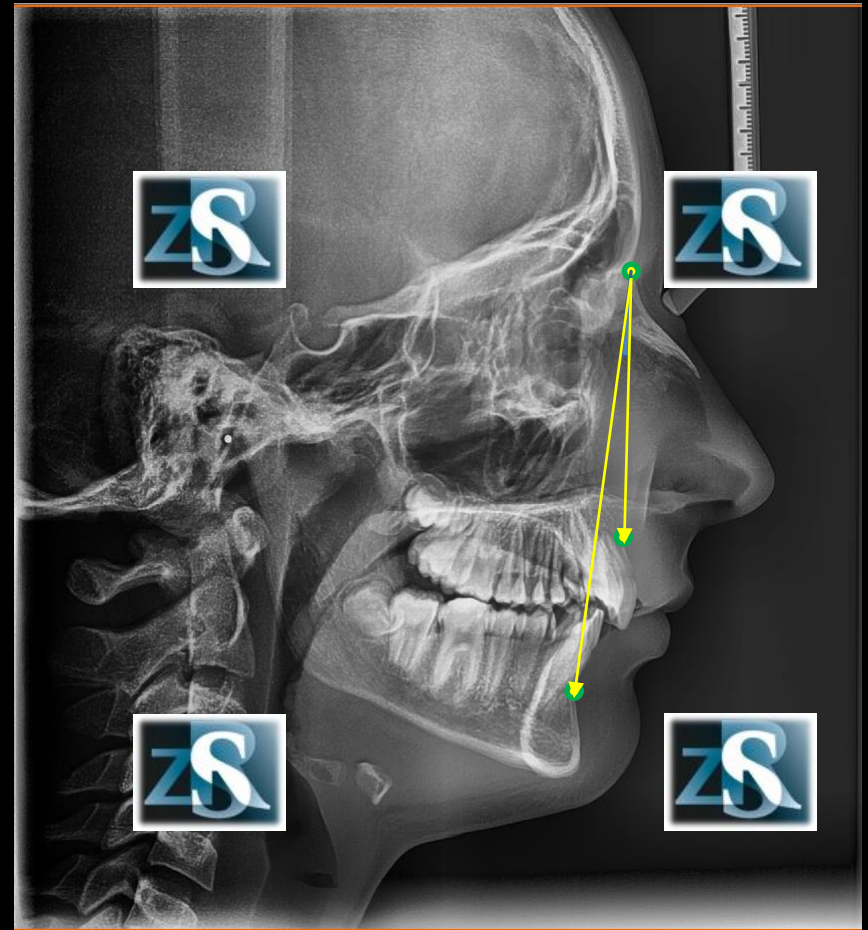
# SNB (*Sella-Nasale-B*)

- Relates to the anteroposterior position of the mandible



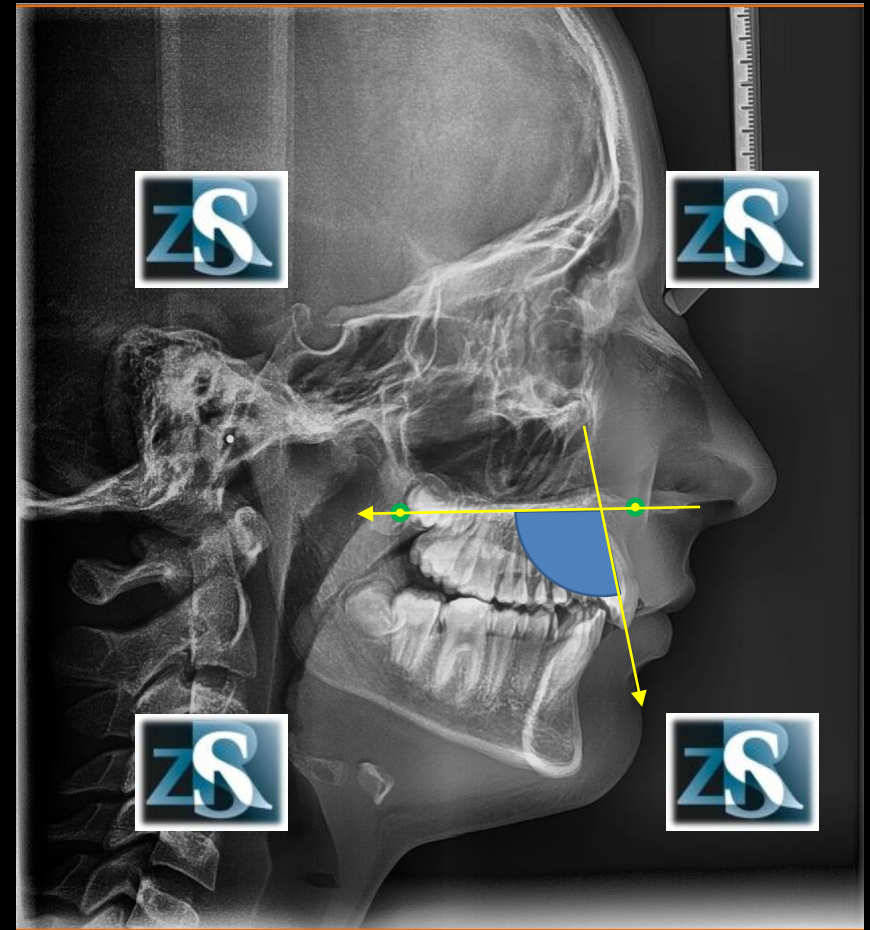
# ANB (A-Nasale-B)

- Relates to the anteroposterior position of the maxilla to the mandible – indicates the skeletal pattern



# Maxillary incisal inclination

- The angle between the long axis of the maxillary incisors and the maxillary plane



# Mandibular incisal inclination

- The angle between the long axis of the mandibular incisors and the mandibular plane

