

Maxilla Anatomy

Nasopalatine or incisive foramen
 intermaxillary suture
 anterior nasal spine
 nasal fossa (cavity)
 greater palatine foramen
 zygomatic process of maxilla
 zygomatic bone
 zygomatic arch
 temporal bone
 maxillary tuberosity
 pterygoid hamulus
 maxillary sinus
 "inverted y"
 maxillary sinus septa
 nasolacrimal duct
 posterior superior alveolar canal (PSAC)
 nutrient canals
 lip line
 nose
 nasolabial fold
 torus palatinus
 PDL
 lamina dura
 alveolar crest

Panoramic Techniques and Errors

panoramic radiograph
 focal spot
 magnification
 distortion
 x-rays travel in... straight lines
 x-rays diverge over... distance
 2 rules of magnification 1.
 negative beam angulation
 center of rotation
 image formation
 2 focal spots

Panoramic Techniques and Errors (cont)

horizontal dimension focal spot center of rotation
 vertical dimension focal spot anode (target) of x-ray tube
 2 aspects of panoramic projection horizontal aspect and vertical aspect
 horizontal aspect affected by beam rotation
 vertical aspect NOT affected by beam rotation
 speed of image receptor forshortens the image
 image layer (focal trough)
 central plane of the image layer
 types of image receptors (3)
 moving the center of rotation
 unsharpness
 image layer form
 magnification varies more in the... anterior
 distortion based on position
 how to minimize distortion and unsharpness in a pan patient positioning
 common errors in pans
 pt too far forward
 pt too far back
 pt rotated/turned
 pt chin too low
 pt chin too high
 tongue not against palate
 pt movement
 pt slumped
 pt tilted
 advantages of pans
 disadvantages of pans



Mandible Anatomy

mental ridges

external oblique ridge

mylohyoid line

internal oblique ridge

genial tubercles

lingual foramen

mental foramen

inferior alveolar canal

mandibular foramen

inferior border of mandible

inferior cortical border

mental fossa

submandibular gland fossa

nutrient canals

alveolar bone crest

interalveolar septum

Normal Anatomy - Panoramic

nasal turbinates and meati

zygomatic bone and arch

maxillary sinuses

palate

mandibular foramen

mandibular canal

nose

hard palate

soft palate

maxillary torus

vertebral column

hyoid bone

epiglottis

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