

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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