PARANASAL SINUSES X-RAYS_

PATIENT PREPARATION



- Check patient identity



- Check patient pregnancy risk



- Remove metal objects from hair, braces, earrings or piercings, necklaces, etc.



- Explain the exam



PARANASAL SINUSES X-RAYS_

PARAMETERS

- Orientation: Portrait
 - Detector and parameters:
 - Detector size: Cassette size:

24 cm x 30 cm: 70 - 80 kV, 15 - 20 mAs

o Or Digital Panel Detector:

80 kV, 4 - 5 mAs

-SID = 100cm



PARANASAL SINUSES X-RAYS

PATIENT POSITION

LATERAL

- -- Patient standing or seated facing the straight bucky
- → Oblique the body slightly
- Adjust head into a true lateral position
- → Align midsagittal plane parallel to IR
- Align interpupillary line perpendicular to IR
- Adjust chin to bring the infra-orbitomeatal line perpendicular to the front edge of IR

PA CALDWELL

- The patient is seated in front of the upright detector
- The patient's forehead is placed against the image detector
- -- Forehead and nose are both touching the detector
- -- The orbitomeatal line is running perpendicular to the detector
- → The petrous ridge is below orbits





PARANASAL SINUSES X-RAYS

CENTERING POINT

LATERAL

PA CALDWELL

2 cm

posterior to the outer canthus

Angled caudal around

15°

to exit at the nasion





PARANASAL SINUSES X-RAYS

CRITERIA FOR SUCCESS

LATERAL

→ Clear visibility of sphenoid sinuses, superimposed frontal, ethmoid, and maxillary sinuses, sella turcica, and orbital roofs

PA CALDWELL

- No visible rotation by the symmetrical nature of the orbits
- →Innominate lines should be equidistant from the lateral borders of the orbits
- → Petrous rides projected in the lower third of the orbits
- → No tilting should be evident; an imaginary line through the petrous ridges should be horizontal





PARANASAL SINUSES X-RAYS_

INDICATIONS

LATERAL

PA CALDWELL

Inflammatory conditions: sinusitis, secondary osteomyelitis, and sinus polyps

Fractures and pathologies of the skull; designed to better visualize the paranasal sinuses, especially the frontal sinus



