

X-Ray Protocols

Purpose

To describe the procedure in cases where a patient's body habitus and/or condition necessitates the technologist may be required to perform a modified exam. Technologists should make every attempt possible to obtain all required views. Additional views upon doctor's request.

Procedure

Views / projections performed:

Abdomen (1 view)

- AP
- *Breathing Instructions:* Expiration

Abdomen (2 views)

- AP - Supine
- AP erect
- *Breathing Instructions:* Expiration

Abdominal Series (Acute Abdominal Series)

- PA Chest
- *Breathing instructions:* Inspiration

- AP abdomen erect
- AP abdomen supine
- *Breathing Instructions:* Expiration

Acromioclavicular Joints

- B/L AP with weights
- B/L AP without weights

Ankle

- AP
- Mortise/internal oblique
- Lateral

Bone Age

- PA Left hand/Wrist

Cervical Spine (non-trauma) - Upright

- AP - Upright
- Lateral - Upright
- LPO - Upright
- RPO - Upright
- Odontoid - Upright

Cervical Spine (trauma)

- AP
- Cross-Table Lateral
- Odontoid

Chest

- PA
- Lateral
- *Breathing Instructions*: Inspiration

Clavicle

- AP
- AP (Cephalic Angulation)

Elbow

- AP
- Lateral
- External oblique
- Internal oblique

Eye for Foreign Body

- Waters
- Lateral - eyes looking up
- Lateral - eyes looking down

Facial Bones - Complete

- PA
- Lateral
- Waters
- Left PA oblique
- Right PA oblique

Femur

- AP
- Lateral

Finger

- PA hand
- Oblique of affected finger
- Lateral of affected finger

Foot

- AP
- Medial Oblique
- Lateral

Forearm

- AP
- Lateral

Hand

- PA
- External oblique
- Lateral (fan the fingers)

Rheumatoid Arthritis

- Bilateral PA hands (on one film)
- Bilateral obliques/ball catcher view (on one film)

Hip

- AP pelvis
- Lateral of affected hip

If fractured:

- AP chest (supine)

Humerus

- AP
- Lateral

Ilium

- AP pelvis
- LPO
- RPO

Knee - 3v (non-trauma)/Arthritis - Supine

- AP
- Lateral
- Tangential/Sunrise

Knee - 4v (trauma) – Supine

- AP
- Lateral
- 1 Oblique
- Sunrise

Knee - Ortho

- B/L Standing AP
- B/L Standing PA (tunnel view)
- Lateral of Effected Side – Standing
- Sunrise View of Effected Side

Lumbar Spine – Upright unless trauma or unable to stand.

- AP
- Lateral
- L5 - S1 spot
- Both Obliques
- *Breathing Instructions:* Expiration

Mandible

- Axiolateral (left)
- Axiolateral (right)
- PA
- Lateral
- Town view

Tempromandibular Joints

- Axiolateral (left)
- Axiolateral (right)
- PA
- Towne (AP Axial)
- Include open and closed mouth when doing axiolaterals

Mastoids

- Stenvers (posterior profile projection)
- Law (axiolateral projection)
- Towne (AP axial)

Nasal Bones

- PA
- Waters
- Left lateral
- Right lateral
- Tangential if ordered by MD

Orbits

- Caldwell (PA axial)
- Waters
- Left PA oblique
- Right PA oblique

Oscalcis

- Lateral
- Tangential

Patella

- AP
- Lateral
- Tangential/Sunrise

Pelvis

- AP

Ribs

- AP or PA (affected side closest to film)
- Oblique
- PA chest - *inspiration*
- *Breathing Instructions:*
 - Affected rib above diaphragm - *inspiration*
 - Affected rib below diaphragm – *expiration*
- Place lead marker (B.B. or arrow) on area of concern for the AP or PA and oblique views.

Sacroiliac Joints

- AP with 30° cephalic angle
- LPO
- RPO
- *Breathing Instructions:* Suspended respiration

Sacrum and Coccyx

- AP sacrum
- AP coccyx
- Lateral (sacrum and coccyx)
- *Breathing Instructions:* Suspended respiration

Scapula

- AP
- Lateral

Shoulder (Trauma)

- External rotation
- Internal rotation
- Scapular Y

Shoulder (Plain Film)

- Zanca view - for AC joint evaluation
- Grashey view - true AP view
- Outlet view – (similar to Y view) for shoulder impingement evaluation.
- Velpeau view - axial projection for patients in a sling, requiring no abduction, useful for posterior dislocation.

Sinus Series

- Caldwell (PA axial)
- Waters
- Lateral

Skull

- AP
- Lateral
- Caldwell (PA axial)
- Townes (AP axial)

Soft Tissue Neck

- AP
- Lateral

- *Breathing Instructions:* Inspiration, try to fill trachea with air

Sternoclavicular Joints

- PA
- RAO
- LAO

Sternum

- Lateral
- RAO
- *Breathing instructions:* Expiration or breathing technique

Thoracic Spine – Upright unless trauma or unable to stand.

- AP
- Lateral
- Swimmers
- *Breathing Instructions:* Inspiration

Tibia/Fibula

- AP
- Lateral

Toes

- AP foot (Vertical Beam)
- Internal oblique of affected toe
- Lateral of affected toe

Wrist

- PA
- External oblique
- Lateral
- Navicular view

Zygomatic Arches

- Waters
- Tangetial

- Lateral

Approved by Medical Director, Dr. Kristin Grant, 3/1/2020