

**Specialized Topics in Areas of Radiologic Sciences**  
**P.O. Box 2931 Toledo, Ohio 43606 419-471-1973**  
**E-mail: info@xrayhomestudies.com**  
**www.xrayhomestudies.com**

# **Extremities**

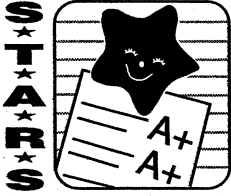
## **Anatomy and Positioning Unit**

**Prepared by:**

**Carolyn J. Frigmanski, M.A., B.S.R.T. ®**  
**Founder**

**Ohio Department of Health Approval for 6**  
**continuing education hours.**





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Dear S.T.A.R.S. participant,

Welcome to your educational unit on anatomy and positioning that has been approved by the Ohio Department of Health. **To receive full credit, you must return ALL of the completed post tests in this unit for evaluation by a S.T.A.R.S. official.** The post tests include:

**Descriptive Terminology for Reference**

**Identified Anatomic Diagrams for Reference**

**Identified Radiographic Anatomy for Reference**

**and**

**Positioning Guide for Reference**

You will receive a signed original certificate of completion with accreditation numbers printed on it for verification of a passing score of 75% or higher on the contents of the entire unit. If you do not send in all the post tests or receive less than a 75%, a S.T.A.R.S. official will send the contents back to you for re-evaluation and return. There will be no charge for this service.

If you have any questions, feel free to contact the S.T.A.R.S. office for information.

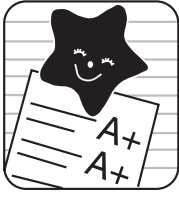
I hope you enjoy this self-learning product and refer others to our educational services.

Sincerely,

Carolyn J. Frigmanski, M.A.,B.S.R.T. ®

Founder

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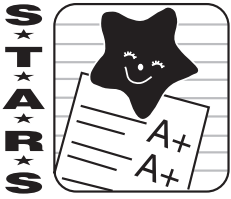
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- ❖ Please do **NOT** return the entire product! It's yours to keep except for the post test pages! I hope it will be a useful resource for you and others in your practice.
- ❖ You only need to fill out the information re: your name as you want it to appear on your certificate, your desired number i.e. social security number, last 4 digits of s.s. number or your license number; your address, etc. if the product you selected has multiple pages. You can initial the other pages and secure the group of pages with a staple so they don't become separated.
- ❖ Please use the correct postage when you return your post tests so delays are not incurred from insufficient postage.
- ❖ You can do the selected product only **ONCE**. Make other choices in the future.
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Dear GXMO/LSO/LSR participant,

**Welcome to your selected S.T.A.R.S. developed continuing education home study!**

**In the spring of 2013, The Ohio Department of Health (ODH) approved ALL of them for GXMO license renewal. Please check with your state licensing agency if you are not a licensed GXMO in Ohio to be sure your state accepts these ce credits for your state license renewal requirement.**

This product consists of a text on a desired topic and multiple question, short answer post test(s) pages. The number of Ohio Department of Health approved continuing education (ce) credits is listed on our order form. This home study product was originally developed for radiographers across the country who were registered with the American Registry of Radiologic Technologists (ARRT) and approved by the American Society of Radiologic Technologists (ASRT). Please disregard any reference to the ASRT/ARRT within this product, if any.

You must complete the reading and questions with a **75% or higher score** on the post test(s) to get your approved CE credit!

Please return all the post test pages to the **S.T.A.R.S.** address listed on our letterhead **BEFORE** your license expires. We will forward your certificate of completion on the same day your post test(s) were evaluated (except for holidays and Sundays). If you did NOT receive a 75%, we will send the pages back with the questions needing a new answer selection. Send them back for a **FREE** re-evaluation. No refund will be provided for unsatisfactory personal performance on any ce product.

Plan the return of your post test(s) pages in a timely manner. I cannot accept emailed or faxed copies since I need to retain my **ORIGINAL** records for the ODH for 3 years in case you may be audited.

Remember to get your envelope weighed at the post office whenever submitting more than 4 pages. The post office will return it to you if you have insufficient postage, thereby delaying it for my evaluation and your certificate of completion.

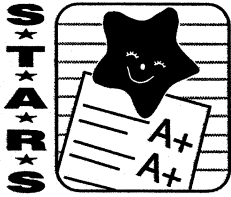
Feel free to contact me by email: [info@xrayhomestudies.com](mailto:info@xrayhomestudies.com) or telephone: **419 471-1973** if you have any questions. Please share with others in the future.

Thank you for selecting **S.T.A.R.S.** to meet your continuing education needs!

Sincerely,

Carolyn J. Frigmanski, M.A.,B.S.R.T. ®, Founder





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**Section: Descriptive Terminology This information is provided as hard copy in this unit.  
Define the following terminology relative to radiographic equipment & positioning.**

**Prelude to Clinical Training:**

1. collimator
2. central ray
3. image receptor
4. latent image
5. technique chart
6. patient positioning aids
7. transverse
8. longitudinal
9. kVp
10. remnant radiation

**Attachment B**

1. supine
2. decubitus
3. recumbent
4. anterior position
5. oblique position
6. caudal/caudad
7. distal
8. dorsal
9. cephalic/cephalad

10. lateral
11. medial/mesial
12. palmar
13. plantar
14. proximal
15. ventral

**Attachment D:**

1. density
2. long scale of contrast
3. film contrast
4. exposure latitude
5. subject contrast (in film radiography)
6. recorded detail
7. brightness
8. dynamic range
9. receptor contrast
10. subject contrast (in digital radiography)

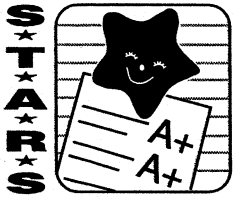
Fill in the following information so that you can receive a signed certificate of completion from an official from S.T.A.R.S. when all the sections of the entire unit are completed.

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**Section: Identified Anatomic Diagrams for Reference This information is provided as hard copy in this unit.**

1. The arm is also called the \_\_\_\_\_ in the anterior view.
2. The thigh is also called the \_\_\_\_\_ in the anterior view.
3. The hollow behind the knee is called the \_\_\_\_\_ space.
4. The back of the elbow is called the \_\_\_\_\_ aspect.
5. The radius is located on the \_\_\_\_\_ aspect of the forearm.
6. The tibia is located on the \_\_\_\_\_ aspect of the lower leg.
7. The head of the humerus rotates in the \_\_\_\_\_ cavity.
8. The \_\_\_\_\_ neck of the humerus is located below the tubercles.
9. The large bony process on the posterior proximal ulna is called the \_\_\_\_\_.
10. The navicular carpal bone is also called the \_\_\_\_\_ bone.
11. The head of the femur rotates in the \_\_\_\_\_.
12. The 3 bones that form the pelvis are 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

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**Section: Identified Radiographic Anatomy for Reference This information is provided as hard copy in this unit.**

1. The thumb possesses \_\_\_\_\_ phalanges as opposed to the other digits.
2. The carpal and metacarpal bones form joints called \_\_\_\_\_.
3. The hand with the ulnar side down with "fanned fingers" is called a \_\_\_\_\_.
4. The largest of the 8 carpal bones is called the \_\_\_\_\_ bone.
5. The \_\_\_\_\_ projection of the forearm shows the radius and ulna without superimposition.
6. Lateral elbow and forearm projections require a \_\_\_\_\_ degree of flexion.
7. Axillary shoulder projections require the humeral epicondyles to be \_\_\_\_\_ to the floor.
8. \_\_\_\_\_ joint views require with and without weight-bearing views.
9. A \_\_\_\_\_ position demonstrates the scapula without superimposition.
10. Metatarsal bones are best seen without superimposition in a (an) \_\_\_\_\_ view.
11. The ankle mortise is best seen when a \_\_\_\_\_ degree internal rotation is used.
12. The space between the femoral condyles is called the \_\_\_\_\_ fossa.
13. The \_\_\_\_\_ is isolated in a tangential (axial) projection or Merchant method.
14. The \_\_\_\_\_ projection is also called a modified Cleaves method.

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**Section: Positioning Guide for Reference This content is provided as hard copy in this unit.**

1. AP toes & foot views require a \_\_\_\_\_ degree tube tilt posteriorly (toward the heel).
2. The degree of rotation for foot obliques is \_\_\_\_\_.
3. AP & lateral weight-bearing projections demonstrate the \_\_\_\_\_ arch.
4. Forced \_\_\_\_\_ of the foot may be painful and cause additional injury when performing an AP projection of the ankle.
5. AP oblique ankle rotation is \_\_\_\_\_ degrees internally.
6. Planodorsal (axial) projections of the calcaneus require a \_\_\_\_\_ degree cephalic tube tilt.
7. To use of the anode-heel effect for lower leg views, place the \_\_\_\_\_ at the cathode.
8. The CR is directed \_\_\_\_\_" or \_\_\_\_\_ cm. distal to the apex for AP projections of the knee.
9. The degree of flexion for lateral knee views is \_\_\_\_\_ to \_\_\_\_\_.
10. The most common oblique for knee examination is the \_\_\_\_\_ rotation.
11. \_\_\_\_\_ or PA axial projections are used to demonstrate the intercondylar fossa.
12. To maximize detail in the patella, a \_\_\_\_\_ projection is preferred.
13. Tangential/sunrise/ or skyline projection is also known as the \_\_\_\_\_ method.
14. Additional joint views may be needed to evaluate the length of the \_\_\_\_\_.
15. Do not rotate legs in an AP pelvis projection if a \_\_\_\_\_ is suspected.

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