Vascular Ultrasound Resident Rotation

Goals:

1. Be in the UAMS Vascular Lab from 8:00AM to 4:30PM, except for 1:00 PM conference.
   Examinations to observe:
   - Venous duplex exams, lower and upper extremity
   - Carotid duplex exams
   - Extremity arterial duplex
   - Physiologic arterial exams (Segmental Pressures, Ankle-Arm Indices, Toe pressures, Treadmill testing)

2. Keep a record of the examinations you observe and interpret.

3. Review the vascular ultrasounds from the outside hospitals each day (Arkansas Heart Hospital and Ouachita County Medical Center.) Correlate your interpretation with staff's reading. Choose a "down time" in the vascular lab. This may take 1-2 hours, make use of the "down time" in the vascular lab.

4. Attend Vascular Conference every week, currently this takes place in the radiology conference room Tuesdays, 4:00PM – 5:00PM.

5. Reading assignments: assigned chapters in Zeibel, Vascular Ultrasound and Physiologic testing and techniques. (Book will be loaned to you for the month)

   1. Introduction to Vascular Ultrasound 4th Edition, William Zwiebel, M.D., W.B. Saunders Co. 2000

   Chapter 2 Physics and Instrumentation in Doppler and B-Mode Ultrasonography
   Chapter 3 Doppler Frequency Spectrum Analysis
   Chapter 4 Color-Flow Imaging for Vascular Diagnosis
   Chapter 8 Normal Carotid Arteries and Carotid Examination Technique
   Chapter 10 Doppler Evaluation of Carotid Stenosis
   Chapter 11 Misc. Carotid Subjects:
   Chapter 12 Ultrsound of Vertebral Examination
   Chapter 15 Arterial Anatomy of the Extremities
   Chapter 16 Non-Imaging Pyhysiologic Tests for Assessment of LE Arterial Dz
   Chapter 17 Assessment of Upper Extremity Arteries
   Chapter 18 Duplex Sonography of Lower Extremity Arteries
   Chapter 19 Rationale for Duplex Ultrasound Assessment of Extremity Veins
   Chapter 20 Extremity Venous Anatomy
   Chapter 21 Terminology, Instrumentation, and Characteristics of normal veins
   Chapter 22 Extremity Venous Examination: Technical Considerations

Chapter 23 Venous Thrombosis
Chapter 24 Definitive Diagnosis and documentation of chronic venous dysfunction

2. Physiological Testing: Techniques and Interpretation

Robert Scissions, RVT (Unetixs, Inc.) book will be loaned to you

Objectives: At the end of the rotation, the resident will:

1) Understand the physics and instrumentation needed to perform vascular US examinations
2) Be able to supervise vascular ultrasound exams performed by a technologist
3) Be able to recognize a technically adequate exam
4) Interpret the following vascular ultrasound exams:

    a) upper and lower extremity venous duplex exam
    b) carotid duplex exams
    c) upper and lower extremity arterial duplex exams
    d) physiologic arterial exams

Vascular Ultrasound Resident Rotation **Name _____**
Dates of Rotation _____

Goals:

1. Be in the UAMS Vascular Lab from 8:00AM to 4:30PM, except for 1:00 PM conference.

    Examinations to observe:

    Venous duplex exams, lower and upper extremity
    Carotid duplex exams
    Extremity arterial duplex
    Physiologic arterial exams (Segmental Pressures, Ankle-Arm Indices, Toe pressures, Treadmill testing)

2. Keep a record of the examinations you observe and interpret.

3. Review the vascular ultrasounds from the outside hospitals each day (Arkansas Heart Hospital and Ouachita County Medical Center.) Correlate your interpretation with staff's reading. Choose a "down time" in the vascular lab. This may take 1-2 hours, make use of the "down time" in the vascular lab.

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2. Physiological Testing: Techniques and Interpretation

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Objectives: At the end of the rotation, the resident will:

5) Understand the physics and instrumentation needed to perform vascular US examinations
6) Be able to supervise vascular ultrasound exams performed by a technologist
7) Be able to recognize a technically adequate exam
8) Interpret the following vascular ultrasound exams:

    e) upper and lower extremity venous duplex exam
    f) carotid duplex exams
    g) upper and lower extremity arterial duplex exams
    h) physiologic arterial exams

Vascular Ultrasound Rotation **Name _____**
Post Review **Rotation dates _____**
Accomplishments: **Date _____**

1. UAMS Vascular Lab from 8:00AM to 4:30PM, except for 1:00 PM conference.
   Examinations to observe:
   Venous duplex exams, lower and upper extremity
   Carotid duplex exams
   Extremity arterial duplex
   Physiologic arterial exams (Segmental Pressures, Ankle-Arm Indices, Toe pressures, Treadmill testing)

2. According to the log you kept, how many of the examinations you observe and interpret.

3. Review the vascular ultrasounds from the outside hospitals each day (Arkansas Heart Hospital and Ouachita County Medical Center.) Correlate your interpretation with staff's reading. Choose a "down time" in the vascular lab. This may take 1-2 hours, make use of the "down time" in the vascular lab.

4. Attend Vascular Conference every week, currently this takes place in the radiology conference room Tuesdays, 4:00PM – 5:00PM.

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2. Physiological Testing: Techniques and Interpretation

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PLEASE RATE THE FOLLOWING (10 Best ---------- 1 Worst)

1. Did you learn the physics and instrumentation used in vascular US?

   1 2 3 4 5 6 7 8 9 10

2. Did you learn the indications for performing vascular US exams?

   Yes No

3. Are you able to supervise vascular US exams performed by a technologist?

   Yes No

4. Did you gain sufficient experience to independently interpret the following exams:

   a) upper and lower extremity venous Doppler

      1 2 3 4 5 6 7 8 9 10

   b) carotid duplex

      1 2 3 4 5 6 7 8 9 10

   c) upper and lower extremity arterial duplex

      1 2 3 4 5 6 7 8 9 10

   d) physiologic arterial exams

      1 2 3 4 5 6 7 8 9 10
      1 2 3 4 5 6 7 8 9