

## UW HEALTH JOB DESCRIPTION

### VASCULAR SONOGRAPHER

Job Code: 610007      FLSA Status: Non-Exempt      Mgt. Approval: R Wiczorek      Date: Oct 2022

Department: Echo/Vascular Lab/3032105      HR Approval: A Phelps      Date: Oct 2022  
Revolinski

#### JOB SUMMARY

The Vascular Sonographer independently performs professional level assessments and a variety of non-invasive studies using ultrasound and related diagnostic technology as appropriate and records the results and clinical preliminary impressions as indicated. The results of these exams are used to direct the course of patient care. This position is a full performance Vascular Sonographer with knowledge of peripheral vascular anatomy, physiology, and pathology. The sonographer will evaluate complex disease states using state of the art equipment in arterial and venous testing and participate in daily maintenance and care of equipment. All examinations are performed within standard protocols on adults and geriatric patients, and occasionally on adolescents and pediatric age groups. The sonographer performs examinations in both the clinic and hospital settings using both stationary and portable equipment.

The sonographer communicates preliminary impressions of examination results to referring physicians both within UW Health, as well as outside clinics and organizations. There is daily contact with professionals and families. The sonographer must solve problems related to the daily needs of patients, the department and/or clinic with professional standards on documentation of care and timeliness.

The sonographer serves as a clinical instructor for the UW School of Ultrasound, and participates in the instruction of fellows, residents, and visiting physicians. The sonographer may also participate in clinical research and acts as a clinical resource to staff at their own facility and throughout the system.

#### MAJOR RESPONSIBILITIES

##### Peripheral Vascular:

- Perform diagnostic vascular examinations according to standardized laboratory protocols; deviating from normal techniques when necessary to provide the best possible results.
- Perform diagnostic vascular examinations, recognizing the significance of all structures that are visualized, differentiating artifacts from appropriate structures, while recognizing the limitations of equipment and utilizing knowledge of anatomy and physiology.
- Perform non-invasive arterial Doppler studies utilizing segmental pressures, volume pulse recordings and Doppler waveform patterns at various levels in the arms and legs with occasional treadmill testing to evaluate arterial circulation.
- Perform venous examinations of arms and legs with Doppler and color duplex scanning using compression maneuvers and imaging, for detection of deep vein thrombosis, superficial thrombophlebitis and/or valvular incompetence, which may include mapping of the superficial veins for size and depth.
- Perform carotid duplex examinations to evaluate blood flow and plaque characteristics in the carotid and vertebral arteries with both real time imaging and spectral analysis using color capabilities.
- Perform other vascular examinations using color duplex and Doppler to help the physicians assess, diagnose and treat aortic aneurysms, thoracic outlet syndrome, popliteal entrapment, Raynaud's syndrome, renal artery stenosis, bypass graft patency, dialysis fistula/graft patency and post-operative angioplasties and stentings.
- Identify pseudoaneurysms and arterial-venous fistulas with duplex scanning. Under direction, manually apply ultrasound-guided compressions to occlude abnormality.
- Assist the physician with thrombin injections of pseudoaneurysms, intra-operative scanning, gathering necessary materials and equipment, and properly disposing of used equipment and supplies. Observes sterile fields and techniques used in the operating room.

##### General Clinical Activities:

- Review patient's medical record to obtain necessary clinical information including patient history, lab results, and physician orders. Obtains necessary clinical information from patients and compares requisitions to physicians' orders to ensure exam accuracy.
- Communicate to patient and family members in a timely and thorough manner that enhances the patient experience and promotes learning to understand procedures, symptoms, and to support health care outcomes.
- Communicate pertinent patient information to physicians and appropriate team members including abnormal findings and changes in test results from previous examinations.
- Prepare written preliminary impressions of tests performed.
- Provide emergency care for patients using the basic support protocols until a CODE team or EMR professional response

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team arrives.

- Request work orders for maintenance of equipment to provide optimal working condition. Order and replace supplies used. Keep exam area and procedure room stocked and clean.
- Accurately process data needed to complete the report template in the electronic reporting tool.
- Works with other teams in the organization as needed to correct any discrepancies in billing, coding, or documentation.

### Education

- Identify and assist in developing and reviewing patient education material.
- Assist with the training and orientation of other technologists as well as ultrasound students, medical students, residents, fellows and nursing students.
- Meet continuing medical education requirements according to the American Registry of Diagnostic Medical Sonographers.
- Provide instructions to ultrasound students from the UW School of Ultrasound.
- Attend local, regional and national conferences to obtain up-to-date testing techniques.

**ALL DUTIES AND REQUIREMENTS MUST BE PERFORMED CONSISTENT WITH THE UW HEALTH PERFORMANCE STANDARDS.**

### JOB REQUIREMENTS

Education	Minimum	<ul style="list-style-type: none"> <li>• Graduate of an ultrasonography program.</li> </ul>
	Preferred	<ul style="list-style-type: none"> <li>• Completion of a Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredited ultrasonography training program.</li> <li>• Bachelor's degree in Ultrasonography, Radiology, Biological Sciences, or a relevant health sciences field.</li> </ul>
Work Experience	Minimum	
	Preferred	<ul style="list-style-type: none"> <li>• Two (2) years of vascular imaging experience.</li> </ul>
Licenses & Certifications	Minimum	<ul style="list-style-type: none"> <li>• Registered in vascular ultrasound (RVT or RVS)</li> <li>• Basic Life Support/CPR</li> </ul>
	Preferred	<ul style="list-style-type: none"> <li>• Registered in vascular and echocardiography ultrasound (RVT or RVS and RCS or RDCS)</li> </ul>
Required Skills, Knowledge, and Abilities		<ul style="list-style-type: none"> <li>• Ability to operate ultrasound equipment utilizing a variety of possibly techniques.</li> <li>• Ability to adjust equipment/machine settings to obtain optimal diagnostic results.</li> <li>• Ability to perform examinations, recognizing the significance of all structures that are visualized, differentiating artifacts from appropriate images, while recognizing the limitations of equipment and utilizing knowledge of anatomy and physiology.</li> <li>• Ability to educate patients and families of safe and appropriate testing; thoroughly explaining procedures, answering questions and calming concerns.</li> <li>• Ability to make knowledgeable clinical assessments and judgments.</li> <li>• Ability to use and apply clinical research findings to identify various intervention techniques or procedures that may need modification.</li> <li>• Ability to maintain composure under stress, using tact and good judgment.</li> <li>• Demonstrate analytical decision-making skills; ability to quickly assess and resolve technical and patient care problems.</li> <li>• Ability to work both independently and as a care team member.</li> <li>• Ability to maintain confidentiality of medical records</li> <li>• Ability to prioritize tasks</li> <li>• Ability to interact professionally and develop effective relationships.</li> <li>• Ability to comply with all HIPAA requirements</li> <li>• Basic computer skills (ability to navigate the computer, Internet and keyboarding skills).</li> <li>• Excellent verbal and written communication skills.</li> </ul>

### AGE SPECIFIC COMPETENCY (Clinical jobs only)

Identify age-specific competencies for direct and indirect patient care providers who regularly assess, manage and treat patients.

**Instructions:** Indicate the age groups of patients served either by direct or indirect patient care by checking the appropriate boxes below. Next,

<b>X</b>	Infants (Birth – 11 months)	<b>X</b>	Adolescent (13 – 19 years)
<b>X</b>	Toddlers (1 – 3 years)	<b>X</b>	Young Adult (20 – 40 years)
<b>X</b>	Preschool (4 – 5 years)	<b>X</b>	Middle Adult (41 – 65 years)

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<b>X</b>	School Age (6 – 12 years)	<b>X</b>	Older Adult (Over 65 years)
<b>JOB FUNCTIONS</b>			
Review the employee's job description and identify each essential function that is performed differently based on the age group of the patient.			
<b>PHYSICAL REQUIREMENTS</b>			
Indicate the appropriate physical requirements of this job in the course of a shift. <i>Note: reasonable accommodations may be made available for individuals with disabilities to perform the essential functions of this position.</i>			
<b>Physical Demand Level</b>	<b>Occasional</b> Up to 33% of the time	<b>Frequent</b> 34%-66% of the time	<b>Constant</b> 67%-100% of the time
<b>Sedentary:</b> Ability to lift up to 10 pounds maximum and occasionally lifting and/or carrying such articles as dockets, ledgers and small tools. Although a sedentary job is defined as one, which involves sitting, a certain amount of walking and standing is often necessary in carrying out job duties. Jobs are sedentary if walking and standing are required only occasionally and other sedentary criteria are met.	<b>Up to 10#</b>	<b>Negligible</b>	<b>Negligible</b>
<b>Light:</b> Ability to lift up to 20 pounds maximum with frequent lifting and/or carrying of objects weighing up to 10 pounds. Even though the weight lifted may only be a negligible amount, a job is in this category when it requires walking or standing to a significant degree.	<b>Up to 20#</b>	<b>Up to 10#</b> or requires significant walking or standing, or requires pushing/pulling of arm/leg controls	<b>Negligible</b> or constant push/pull of items of negligible weight
<b>Medium:</b> Ability to lift up to 50 pounds maximum with frequent lifting and/or carrying objects weighing up to 25 pounds.	<b>20-50#</b>	<b>10-25#</b>	<b>Negligible-10#</b>
<b>X</b> <b>Heavy:</b> Ability to lift up to 100 pounds maximum with frequent lifting and/or carrying objects weighing up to 50 pounds.	<b>50-100#</b>	<b>25-50#</b>	<b>10-20#</b>
<b>Very Heavy:</b> Ability to lift over 100 pounds with frequent lifting and/or carrying objects weighing over 50 pounds.	<b>Over 100#</b>	<b>Over 50#</b>	<b>Over 20#</b>
List any other physical requirements or bona fide occupational qualifications:			

Note: The purpose of this document is to describe the general nature and level of work performed by personnel so classified; it is not intended to serve as an inclusive list of all responsibilities associated with this position.