CARDIOVASCUI	AR SONOGRAPHER						
CARDIOVASCULAR SONOGRAPHER Job Code: 610010 FLSA Status: Non-Exempt Mgt. Approval: R Wieczorek Date: Oct 2022							
Department: Echo/Vascular Lab/3032105	HR Approval: A Phelps Date: Oct 2022 Revolinski						
JOB SUMMARY							
studies using ultrasound and related diagnostic technology impressions as indicated. The results of these exams are	professional level assessments and a variety of non-invasive as appropriate and records the results and clinical preliminary used to direct the course of patient care. The sonographer ations daily and must resolve them with limited supervision. There						
This position is a full performance Cardiovascular Sonogra vascular anatomy, physiology, and disease. All examinatio occasionally on adolescents and pediatric age groups. The using both stationary and portable equipment; predominate Laboratory the Cath and EP Labs, and inpatient units.	ns are performed within standard protocols on adults, and e sonographer performs examinations in a variety of settings						
	phageal and stress testing; dobutamine, treadmill exercise stress asive testing, carotid and transcranial duplex, aorta, and renal						
The sonographer serves as a clinical instructor for the UW fellows, residents, and visiting physicians. The sonographer resource to staff at their own facility and throughout the system.	r may also participate in clinical research, and acts as a clinical						
MAJOR RESI	PONSIBILITIES						
 wards, emergency room, cardiac cath lab, and operatin Evaluate the hemodynamic significance of various card accordance with the department's protocols Calculate measurements of echocardiographic structur pertinent to each patient. Operate ultrasound system and assist exercise physiol Perform contrast administration and agitated saline but 	evaluate cardiac stenotic and regurgitant lesions, and cant lesions. In tand in the hospital setting to intensive care units, other nursing ing room. diac disease states using all imaging modalities available in res and Doppler signals, deriving the appropriate indices logist and RN during dobutamine and stress echocardiography.						
 techniques when necessary to provide the best possib Perform diagnostic vascular examinations, recognizing differentiating artifacts from appropriate structures, whi knowledge of anatomy and physiology. Perform non-invasive arterial Doppler studies utilizing a waveform patterns at various levels in the arms and legs circulation. Perform venous examinations of arms and legs with Dependent of the arms are arbitrary arms and legs with Dependent of the arms are arbitrary arms are arms and legs with Dependent of the arms arms are arbitrary arms are arms are arms are arms are arbitrary arms are a	the significance of all structures that are visualized, le recognizing the limitations of equipment and utilizing segmental pressures, volume pulse recordings and Doppler gs with occasional treadmill testing to evaluate arterial oppler and color duplex scanning using compression maneuvers perficial 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 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.
- Accurately complete billing for the procedures being completed.

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.

Research:

- Cooperate in data collection for research activities.
- Identify actual or potential care problems and report to research coordinator.
- Participate in utilization of quality care study recommendations.
- Utilize clinical research findings to identify various intervention techniques or procedures that may need modification.
- Learn about new equipment that may be added for diagnostic use and understand the equipment functions.

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

JOB REQUIREMENTS					
Education	Minimum	Graduate of an ultrasonography program			
	Preferred	 Completion of a Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredited ultrasonography training program. Bachelor's degree in Ultrasonography, Radiology, Biological Sciences or a relevant health sciences field. 			
Work Experience Minimum					
	Preferred	 Two (2) years of cardiovascular imaging experience. 			

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.						1			
Sedentary: 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			Up to 10#		Negligible	Negligible			
Physical Dema	nd Level			Occasie Up to 33	onal % of the time	Frequent 34%-66% of the time	Constant 67%-100% of the time		
may be made ava	ilable for i	individuals with dis	rements of this abilities to perform				e accommodations		
. .	<u>.</u>		PHYSICAL	-			• •		
				patient.					
Review the emp	loyee's jo	b description and i	dentify each essen	UNCTI tial function patient.		med differently based on	the age group of the		
X School Age				X	Older Adult (Over 65 years)				
X Preschool (4				X	Middle Adult (41 – 65 years)				
X Toddlers (1 -		,		X X		13 – 19 years) (20 – 40 years)			
appropriate boxe					Adolog sant (4	12 10 years)			
						egularly assess, manage rect patient care by ch			
			-		• •	nd develop effective re			
			 Ability to select the proper transducer frequency tests performed. Ability to work both independently and as a care team member. 						
			resolve tec	hnical and	d patient care	e problems.			
			-		•	der stress, using tact a making skills; ability to			
		intervention	n techniqu	ies or proced	lures that may need m	odification.			
				 Ability to make knowledgeable clinical assessments and judgments. Ability to use and apply clinical research findings to identify various 					
			concerns.	thoroughly explaining procedures, answering questions and calming concerns.					
			Ability to equal	Ability to educate patients and families of safe and appropriate testing;					
				 Demonstrate flexibility performing tests/scans in a variety of clinical environments. 					
			transesoph	ageal ech	nocardiograph	hy examinations.			
			• Ability to perform echo and vascular sonography studies including complex studies: stress echocardiography, dobutamine echocardiography, and						
			and physiology.						
			that are visualized, differentiating artifacts from appropriate images, while recognizing the limitations of equipment and utilizing knowledge of anatomy						
			wave Doppler flow mapping.Ability to perform examinations, recognizing the significance of all structures						
			techniques	 Ability to operate ultrasound equipment utilizing a variety of possible techniques, including M-mode, two-dimensional, pulsed and continuous 					
			disease.	disease.					
Required Skills, K	nowledae	Preferred and Abilities	Demonstra	to advan	ed knowledg	le of cardiac anatomy	physiology and		
				RVT, or RVS)Basic Life Support/CPR					
				/S)					

	Light: 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.	Up to 20#	Up to 10# or requires significant walking or standing, or requires pushing/pulling of arm/leg controls	Negligible or constant push/pull of items of negligible weight
Х	Medium: Ability to lift up to 50 pounds maximum with frequent lifting/and or carrying objects weighing up to 25 pounds.	20-50#	10-25#	Negligible-10#
	Heavy: Ability to lift up to 100 pounds maximum with frequent lifting and/or carrying objects weighing up to 50 pounds.	50-100#	25-50#	10-20#
	Very Heavy: Ability to lift over 100 pounds with frequent lifting and/or carrying objects weighing over 50 pounds.	Over 100#	Over 50#	Over 20#
	er - list any other physical requirements or bona fide upational qualifications not indicated above:			

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.