

UW HEALTH JOB DESCRIPTION

Peds/Fetal Cardiovascular Sonographer - Lead

Job Code: 610013	FLSA Status: Non-Exempt	Mgt. Approval: L. Marso/R. Brown	Date: 12.2018
Department: Pediatric Cardiology/1401		HR Approval: M. Buenger	Date: 12.2018

JOB SUMMARY

The Peds/Fetal Cardiovascular Sonographer Lead independently performs the most complex 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. The sonographer encounters difficult problems related to examination evaluations daily and must resolve them with limited supervision. There is daily contact with professionals and families.

This position is a full performance Peds/Fetal Cardiovascular Sonographer with advanced knowledge of cardiac, physiology, and disease. All examinations are performed within standard protocols on fetal, pediatric, adolescent and occasionally adult age groups. The sonographer performs examinations in a variety of settings using both stationary and portable equipment; predominately working in the Pediatric Cardiology Clinic.

The sonographer assists with intraoperative transesophageal, echo, and exercise stress echo examinations. Preliminary impressions of examination results are relayed to AFCH cardiologists.

The Peds/Fetal Cardiovascular Sonographer Lead has primary responsibility for the daily operations of the pediatric echocardiography lab. This position serves in the role of Technical Director and in this capacity, is responsible for maintaining accreditation of the labs through the Intersocietal Accreditation Commission (IAC), serving as a resource for staff, and coordinating patient scheduling and daily work assignments. This position reviews and updates protocols, coordinates technical training for sonographers, and organizes and maintains monthly QA programs. The lead sonographer is responsible for maintaining proper working condition of all ultrasound equipment in the lab by diagnosing basic equipment malfunctions.

The Peds/Fetal Cardiovascular Sonographer serves as a clinical instructor for the UW School of Ultrasound, and participates in the instruction of fellows, residents, and visiting physicians. The Peds/Fetal Cardiovascular Sonographer may travel to UW Health clinical outreach locations or provide on-site pediatric echo training to outreach Diagnostic Specialists.

MAJOR RESPONSIBILITIES

Echocardiography:

- Perform pediatric echocardiographic studies on patients in the inpatient and outpatient setting, using multiple echocardiography systems and accessories appropriate to the patient's specific diagnosis, age, height, and weight.
- Perform fetal echocardiographic studies on patients in the outpatient setting.
- Perform examinations, recognizing the significance of all structures that are visualized always, differentiating artifacts from appropriate images, recognizing the limitations of the equipment and utilizing knowledge of anatomy and physiology.
- Perform examinations, recognizing a variety of different types of cardiac defects and demonstrate the ability to tailor the exam based on the type of defect and clinical signs and symptoms present.
- Perform the most complex and difficult adult, pediatric, or fetal cardiac ultrasound examinations and use the most appropriate imaging for the situation.
- Perform emergency examinations in the department, intensive care units, other inpatient units, emergency department, cardiac cath lab, and operating room.
- Perform tests according to standard protocols; tailor the exam to answer the clinical question as appropriate.

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.
- Keep appropriate records of the diagnostic tests performed.

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- Communicate pertinent patient information to physicians and appropriate team members including abnormal findings and changes in test results from previous examinations.
- 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.
- Prioritize the scheduling of studies for both outpatients and inpatients.
- Accurately process data needed to complete the report template in the electronic reporting tool.
- Accurately complete billing for the procedures being completed.

Intersocietal Accreditation Commission (IAC)

- Successfully pass and maintain the laboratory accreditation through the IAC (Intersocietal Accreditation Commission).
- Ensure IAC compliance of the technical staff.
- Serve as initial resource for sonographers for day-to-day activities.
- Perform daily technical operations of the facility (i.e., facility record keeping, calibration log, quality assurance, scanning protocols, etc.).
- Work with medical director, clinic manager, medical staff and technical staff to ensure quality of patient care.
- Collaborate with the clinic manager to develop protocols, procedures and performance standards.
- Work with the Department of Cardiology and UW Health Information Technology staff to help maintain digital reporting and storage systems
- Perform all facility duties delegated by the medical director.
- Participate in and present at QI meetings

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.
- Travel to UW Health clinical outreach locations or provide on-site pediatric echo training to outreach Diagnostic Specialists.
- Provide instructions to students from the UW School of Ultrasound.
- Meet continuing medical education requirements according to the American Registry of Diagnostic Medical Sonographers.
- 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 control 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	<ul style="list-style-type: none"> • Completion of a Commission on Accreditation of Allied Health Education Programs (CHAAHEP) approved ultrasound program, Associate Degree in Biological Sciences, Radiology, Ultrasound, or relevant health sciences field.
	Preferred	<ul style="list-style-type: none"> • Bachelor's Degree in Ultrasound, Radiology, Biological Sciences, or relevant health sciences field.
Work Experience	Minimum	<ul style="list-style-type: none"> • Three (3) years of progressively responsible experience in a lab performing echocardiography imaging. • Pediatric echocardiography experience.
	Preferred	<ul style="list-style-type: none"> • Five (5) years of progressively responsible experience in a lab performing echocardiography imaging.
Licenses & Certifications	Minimum	<ul style="list-style-type: none"> • Registered in Adult Echocardiography (AE) and Pediatric Echocardiography (PE) • Basic Life Support/CPR

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	Preferred	Registered in Fetal Echocardiography (FE)
Required Skills, Knowledge, and Abilities		<ul style="list-style-type: none"> • Demonstrate advanced knowledge of cardiac anatomy, physiology, and disease. • Ability to operate ultrasound equipment utilizing a variety of possible techniques, including M-mode, two-dimensional, pulsed and continuous wave Doppler flow mapping. • 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. • Ability to perform echo sonography studies including complex studies: stress echocardiography, dobutamine echocardiography, and transesophageal echocardiography examinations. • Demonstrate flexibility performing tests/scans in a variety of clinical environments. • Ability to educate patients and families of safe and appropriate testing; thoroughly explaining procedures, answering questions and calming concerns. • Ability to recognize and record cardiac pathology in order for the physician to render a diagnosis. • Ability to make knowledgeable clinical assessments and judgments. • Ability to use and apply clinical research findings to identify various intervention techniques or procedures that may need modification. • Ability to maintain composure under stress, using tact and good judgment. • Demonstrate analytical decision-making skills; ability to quickly assess and resolve technical and patient care problems. • Ability to select the proper transducer frequency tests performed. • Ability to work both independently and as a care team member. • Ability to interact professionally and develop effective relationships.

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,

<input checked="" type="checkbox"/>	Infants (Birth – 11 months)	<input checked="" type="checkbox"/>	Adolescent (13 – 19 years)
<input checked="" type="checkbox"/>	Toddlers (1 – 3 years)	<input checked="" type="checkbox"/>	Young Adult (20 – 40 years)
<input checked="" type="checkbox"/>	Preschool (4 – 5 years)	<input checked="" type="checkbox"/>	Middle Adult (41 – 65 years)
<input checked="" type="checkbox"/>	School Age (6 – 12 years)	<input checked="" type="checkbox"/>	Older Adult (Over 65 years)

JOB FUNCTIONS

Review the employee's job description and identify each essential function that is performed differently based on the age group of the patient.

PHYSICAL REQUIREMENTS

Indicate the appropriate physical requirements of this job in the course of a shift. *Note: reasonable accommodations may be made available for individuals with disabilities to perform the essential functions of this position.*

Physical Demand Level	Occasional Up to 33% of the time	Frequent 34%-66% of the time	Constant 67%-100% of the time
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 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.	Up to 10#	Negligible	Negligible
<input checked="" type="checkbox"/> Light: Ability to lift up to 20 pounds maximum with frequent lifting and/or carrying of objects weighing up to 10	Up to 20#	Up to 10# or requires significant walking or	Negligible or constant push/pull of

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	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.		standing, or requires pushing/pulling of arm/leg controls	items of negligible weight
	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#
Other - list any other physical requirements or bona fide occupational 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.