

Mayo Clinic School of Health Sciences Advanced Cardiovascular Sonography Program

Technical Performance Standards

Theme	General	Specific
Visual	The candidate must be able to acquire a defined level of required information as presented through demonstrations and experiences in the basic and clinical sciences.	<ul style="list-style-type: none"> • The candidate must be able to learn to perform visual examinations to differentiate subtle variations in color, shape and general appearance. • The candidate must be able to accurately observe patients from a distance or close at hand, correctly interpret digital, analogue or graphic gauges, scales and monitors, and recognize biohazardous fluids. The candidate must be able to distinguish gray-scale and color images and Doppler waveforms on ultrasound monitors. • The candidate must also possess ability to interpret various forms of documentation including records, charts, images and handwritten notation.
Hearing	The candidate must have adequate hearing abilities to provide safe and efficient patient care and to effectively communicate with health care personnel.	<ul style="list-style-type: none"> • The candidate must be able to ensure correct patient identification according to institutional policy. • The candidate must be able to interact with healthcare faculty, patients and family in person and via the telephone. • Detect and differentiate various equipment sounds such as alarms, emergency signals and instrumentation in noisy environments such as, but not limited to, Emergency Department and/or during a code-situation. • The candidate must be capable of discerning Doppler sounds.
Motor Skills/Mobility	The candidate should have sufficient motor functions such that they are able to execute movements required to provide general care and treatment to clients in all health care settings within a specified amount of time.	<ul style="list-style-type: none"> • The candidate must be able to perform basic life support (including CPR), transfer and position patients, and position and re-position self around patients. • The candidate must also be able to position and operate equipment typically found in the health care environment (for example: IV pumps, electric beds, oxygen tanks, wheel chairs, ultrasound scanning equipment, etc.). • The candidate must be able to demonstrate the ability to manipulate multiple objects simultaneously, such as an ultrasound transducer and keyboard or touch panel. • The candidate must be able to utilize computer equipment such as keyboard, mouse and related equipment. Such actions may require standing for prolonged periods of time and coordination of both gross and fine

		<p>muscular movements, including equilibrium and functional uses of senses to perform patient care procedures.</p>
Communication	<p>The candidate must be able to communicate clearly and effectively with a degree of sensitivity and cultural appropriateness with patients, parents and/or guardians; establish good rapport, convey or exchange information at a level allowing development of a health history; identify problems presented; explain alternative solutions; and give directions during treatment and post-treatment. Communication includes oral and written modes.</p>	<ul style="list-style-type: none"> • The candidate must have sufficient facility with English to retrieve information from literature, computerized data bases and lectures and to communicate concepts on written exams and patient charts. • Patients, faculty, students, and staff must be able to easily understand the candidates' oral and written communication in order to effectively evaluate performance and to work collaboratively in the care of patients • The candidate must have the fluency to interpret and comprehend the English language necessary to understand caregivers' written and/or electronic orders, and any signage related to patient care.
Interpersonal Behavior and/or Social Skills	<p>The candidate must possess the emotional health and maturity required for full utilization of his or her intellectual abilities, the exercise of good judgment, maintenance of patient confidentiality, the prompt completion of all responsibilities attendant to the diagnosis and care of patients, and the development of mature, sensitive, and effective relationships with patients, faculty, staff and students.</p>	<ul style="list-style-type: none"> • The candidate must be able to tolerate physically, mentally and emotionally demanding workloads, function effectively under stress, adapt to changing environments, display flexibility and learn to function in the face of uncertainties inherent in the clinical problems of patients. • Compassion, integrity, concern for others, interpersonal skills, interest, and motivation are personal qualities assessed during the admission and educational processes. Further, a candidate must be able to manage apprehensive patients with a range of moods and behaviors in a tactful, culturally sensitive, congenial, personal matter so as not to alienate or antagonize them. • Communicates with peers and other healthcare workers in a mutually respectful manner. • Establish good rapport (greeting, explaining procedure, etc.) with patients while recognizing the variances in emotional status. • Show genuine empathy, understanding, interest and professionalism while interacting with patients. • Have the ability to accept constructive criticism and modify behavior accordingly.
Cognitive /Intellectual	<p>The candidate must be able to measure, calculate reason, analyze, integrate, and synthesize information.</p>	<ul style="list-style-type: none"> • The candidate must be able to self-organize his/her time, independently manage multifaceted demands and schedules. • The candidate must be able to quickly interpret and comprehend extensive written materials. • The candidate must be able to comprehend and apply didactic concepts and engage in critical thinking in the classroom, lab and clinical setting all in a timely manner.

		<p>This involves physiologic measurements, mathematical computation, information gathering, interpretation and analysis of data, and problem solving</p> <ul style="list-style-type: none"> • The candidate must be able to comprehend three-dimensional relationship and to understand the spatial relationships of structures.
Environment	Sensory and physical well-being that will allow an individual to tolerate occasional distressing and/or disturbing conditions that may be present in a clinical setting.	<ul style="list-style-type: none"> • Tolerate smells associated with disease states and infections. • Tolerate sights such as open incisions, invasive procedures during code situations and injuries/deformities. • Ability to acclimate to various noises which may range from distractions to annoyances. • Emotional strength to understand patient and/or family disturbances, death and dying. • The ability to function effectively (by completing the given task) in emergent and stressful situations.
Problem Solving/ Organizational Skills	Command the ability to think critically, possess problem-solving and organizational skills necessary in providing quality patient care.	<ul style="list-style-type: none"> • Understand the relationship between patient health status/condition and requested exams. • Possess the skills necessary to prioritize exams, especially in emergency situations. • Ability to troubleshoot/adapt when necessary. • Understand additional resources available, where to locate them and how to use them.
Ethics	Adhere to Mayo Clinic's mission, vision and value statements regarding patient care.	<ul style="list-style-type: none"> • Recognize the importance of performing duties in accordance with policies and standard operating procedures. • Accept the expectation of maintaining patient confidentiality, both from a legal standpoint and a humanitarian perspective. • Understand the Patient Bill of Rights and perform care in a manner that exhibits respect, dignity and empathy for the patient and family members.
Computer / Technological Skills	Possess the skill sets and capability to utilize electronic technology in the healthcare setting	<ul style="list-style-type: none"> • Understand basic computer functions, such as window applications; drop-down menus, pop-up boxes, data entry, printing and the ability to function in multiple screens simultaneously. • Have the ability to learn and understand the software technology utilized in the healthcare setting (Information Systems). • Possess basic troubleshooting skills and/or recognize resources available to assist.