



Vascular Sonography

Candidates for certification and registration are required to meet the Professional Requirements specified in the *ARRT Rules and Regulations*. *ARRT's Vascular Sonography Clinical Experience Requirements* describe the specific eligibility requirements that must be documented as part of the application for certification and registration process.

The purpose of the clinical experience requirements is to verify that candidates have completed a subset of the clinical procedures within a discipline. Successful performance of these fundamental procedures, with mastery of the cognitive knowledge and skills covered by the examination provides the basis for the acquisition of the full range of clinical skills required in a variety of settings.

The job responsibilities typically required of vascular sonographers are delineated through a periodic practice analysis. This results in a "task inventory." An advisory committee then determines the number of clinical procedures required to demonstrate adequate candidate experience in performing the tasks on the inventory.

Candidates for Vascular Sonography certification and registration must document performance of a minimum of 914 repetitions of vascular sonography procedures according to the criteria noted below. Procedures are documented, verified and submitted when complete via an online tool accessible through My ARRT Info account on arrt.org. ARRT encourages individuals to obtain education and experience beyond these minimum requirements.

Completion of each procedure must be verified by a certified and registered technologist, certified sonographer, supervisor or licensed physician. The verification process is described within the online tool.

Specific Procedural Requirements

A. Mandatory Procedures

- Candidates must demonstrate experience in all of the mandatory procedures by completing the specified number of repetitions.
- At least 50% of the repetitions on the mandatory procedures must be demonstrated on patients, while the other 50% can be performed using volunteers for simulation.

B. Elective Procedures

- Candidates must demonstrate experience in at least 14 of the 37 elective procedures by completing the specified number of repetitions.
- The 14 elective procedures may be performed using volunteers for simulation.



General Guidelines

An examination on one patient may be used for documentation of several procedures. To qualify as a complete procedure, the candidate must demonstrate appropriate:

- evaluation of requisition and/or medical record
- preparation of examination room
- CDC Standard Precautions
- identification of patient
- patient assessment and education concerning the procedure
- patient positioning
- Doppler mode selection
- image optimization (*e.g., transducer selection, focal zone, FOV, Doppler angle, pulse repetition frequency)
- image archiving
- documentation of procedure and patient data in appropriate record
- evaluation of image quality (e.g., artifacts) and optimal demonstration of anatomic region and pathology
- assurance of exam completeness

Abdominal/Pelvic Vasculature	Mandatory	Elective
<i>Arterial</i>		
Aorta	40	
Superior or inferior mesenteric		5
Celiac		5
Hepatic	30	
Common iliac	35	
Internal iliac		5
External iliac	35	
Renals		10
Splenic		5
<i>Venous</i>		
Inferior vena cava	20	
Portal	30	
Hepatic	30	
Splenic		5
Superior mesenteric		5
Renal		10
Common iliac	30	
Internal iliac		5
External iliac	20	
<i>Transplants</i>		
Liver		5
Renal		5

*e.g., This is used here and in the remainder of this document to indicate examples of the topics covered, but not a complete list.



Arterial Peripheral Vasculature	Mandatory	Elective
<i>Upper Extremity</i>		
Subclavian		5
Axillary		5
Brachial		5
Radial		5
Ulnar		5
Digital		5
<i>Lower Extremity</i>		
Common femoral	30	
Superficial femoral	30	
Deep femoral	30	
Popliteal	30	
Tibioperoneal trunk	30	
Posterior tibial or anterior tibial or peroneal	40	
<i>Stress/Pressure Testing</i>		
Segmental pressure – upper extremities		5
ABI or segmental pressure – lower extremities		15
PVR (pulse volume recording)		5
Digital pressure		5
Post-exercise testing		10
Venous Peripheral Vasculature	Mandatory	Elective
<i>Upper Extremity Venous</i>		
Internal jugular	15	
Subclavian	15	
Axillary	15	
Brachial	15	
Cephalic	15	
Basilic	15	
Radial		5
Ulnar		5
Vein mapping		5



Venous Peripheral Vasculature	Mandatory	Elective
<i>Lower Extremity Venous</i>		
Common femoral	50	
Femoral	50	
Deep femoral		5
Popliteal	50	
Great saphenous	50	
Small saphenous		5
Calf veins		15
Vein mapping		5
Reflux assessment		15
Neck Vasculature	Mandatory	Elective
Carotid artery	75	
Vertebral artery	75	
Post Intervention Procedures	Mandatory	Elective
Bypass grafts		10
Post catheterization complications		5
Endografts		5
Dialysis access grafts/fistulae		5
Stents		5
Angioplasty		5
TIPS		5