



# Vascular-Interventional Radiography

Candidates for certification and registration are required to meet the Professional Requirements specified in the *ARRT Rules and Regulations*. ARRT's *Vascular-Interventional Radiography 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, in combination 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 staff vascular-interventional radiographers 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-Interventional Radiography certification and registration must document performance of a minimum of 200 repetitions of vascular-interventional radiography 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](http://arrt.org). ARRT encourages individuals to obtain education and experience beyond these minimum requirements.

In addition, to ensure the highest level of patient care, candidates must document current basic life support (BLS) certification.

To qualify as a complete imaging procedure, the candidate must demonstrate active participation in a primary role throughout the entire procedure. Examples of primary roles include scrubbing and circulating.

Completion of each procedure must be verified by a certified and registered technologist (post-primary certification not required), supervisor or licensed physician. The verification process is described within the online tool.

## Specific Procedural Requirements

The clinical experience requirements for Vascular-Interventional Radiography consist of 61 procedures in seven different categories. The seven categories include:

- A. Neurologic
- B. Thoracic
- C. Abdominal and Pelvic
- D. Genitourinary and Gastrointestinal Nonvascular
- E. Peripheral
- F. Venous Access
- G. Miscellaneous



Candidates must document the performance of these procedures according to the following rules:

- Each candidate must complete a total of 200 repetitions from the list of procedures provided.
- The candidate does not need to select procedures from all seven categories.
- Each selected procedure must be performed a minimum of five times (repetitions) in order for the candidate to receive credit for that procedure.
- Each procedure may be counted a maximum of 20 times.
- For any given patient per day, you may count only one diagnostic procedure but may count multiple interventional procedures.

## General Guidelines

To qualify as a complete imaging procedure, the candidate must demonstrate active participation in a primary role with appropriate:

- preparation of supplies and maintenance of equipment
- evaluation of order and patient identification, patient preparation, and administration of medications as required
- patient monitoring during procedure
- post-procedure patient care
- image processing, including evaluation of images to ensure they demonstrate correct anatomy, radiographic techniques, and identification/labeling

## Examples:

The following hypothetical candidates illustrate three ways of satisfying the clinical experience requirements. Numerous other combinations are possible.

Candidate A: This person identified 10 different procedures from the list and performed each of those procedures 20 times ( $10 \times 20 = 200$ ).

Candidate B: This person identified 25 different procedures from the list. This applicant performed 15 of those procedures 10 times ( $15 \times 10 = 150$ ), and the other 10 procedures five times ( $10 \times 5 = 50$ ).

Candidate C: This person identified 40 different procedures from the list and performed each of those procedures five times ( $40 \times 5 = 200$ ).



## Procedures

- A. Neurological
  - 1. neurologic angiography\*
  - 2. spinal arteriography
  - 3. embolization
  - 4. thrombolysis/thrombectomy
  - 5. angioplasty
  - 6. stent placement
  - 7. vertebroplasty and/or kyphoplasty
  - 8. discography
- B. Thoracic
  - 1. aortography
  - 2. pulmonary arteriography
  - 3. superior vena cavagram
  - 4. embolization
  - 5. endograft placement
  - 6. chest tube/drain placement
  - 7. thoracentesis
  - 8. thrombolysis/thrombectomy
  - 9. angioplasty
  - 10. stent placement
- C. Abdominal and Pelvic
  - 1. aortography
  - 2. selective visceral angiography
  - 3. renal angiography
  - 4. adrenal angiography
  - 5. pelvic angiography
  - 6. inferior vena cavagram
  - 7. paracentesis
  - 8. angioplasty
  - 9. stent placement
  - 10. endograft placement
  - 11. caval filter placement
  - 12. caval filter removal
  - 13. venous sampling
  - 14. TIPS
  - 15. chemoembolization
  - 16. radioembolization
  - 17. embolization
- D. Genitourinary and Gastrointestinal
  - Nonvascular
    - 1. nephrostomy
    - 2. ureteral dilatation and/or stents
    - 3. percutaneous stone extraction
    - 4. percutaneous transhepatic cholangiogram
    - 5. internal/external biliary drainage
    - 6. cholecystostomy
    - 7. gastrostomy or gastrojejunostomy
    - 8. catheter/drain exchange
- E. Peripheral
  - 1. upper extremity arteriography
  - 2. lower extremity arteriography
  - 3. extremity venography
  - 4. hemodialysis graft/fistula study
  - 5. embolization
  - 6. thrombolysis/thrombectomy
  - 7. angioplasty
  - 8. stent placement
  - 9. atherectomy
- F. Venous Access
  - 1. central venous access (non-tunneled/PICC line)
  - 2. central venous access (tunneled/port)
- G. Miscellaneous
  - 1. biopsy
  - 2. percutaneous drainage
  - 3. tunneled drainage (thoracic and abdominal)
  - 4. foreign body retrieval
  - 5. percutaneous radiofrequency ablation (RFA)

\* In this document, angiography includes arteriography and/or venography