

# Intravascular Contrast Media Administration and Supervision Imaging Procedure

## Purpose

This procedure outlines the American College of Radiology (ACR) and the Centers for Medicare and Medicaid Services (CMS) supervision requirements for the safe and effective administration of intravascular contrast media used for imaging studies.

## Scope

*Intermountain Healthcare hospitals, Intermountain Medical Group*

## Definitions

**Advanced Practice Provider (APP)**-A nurse practitioner, physician assistant, state-licensed clinical nurse specialist, and certified nurse midwife.

**Direct Supervision**- Direct supervision means that the supervisory practitioner providing supervision must be "immediately available" and "interruptible" to provide assistance and direction throughout the performance of the procedure; however, he or she does not need to be present in the room when the procedure is performed.

**Protocolsing Radiologist or Other Physician**- A radiologist, cardiologist or another licensed physician familiar with contrast media and the indications and contraindications for each. The physician is also responsible for defining the examination protocol, including specifying the type, timing, dosage, rate of injection, and route of administration of contrast media.

**Supervising Practitioner**- A radiologist, cardiologist, other licensed physicians or APP permitted by law to provide supervision. The supervising practitioner provides direct supervision for the injection of contrast media, and is trained in the recognition and treatment of adverse events related to contrast media administration.

## Procedure

### 1. General Guidance Requirements

- 1.1. All administrations of intravascular (both intravenous and intra-arterial) contrast media (including iodinated and gadolinium chelate agents) are directed (protocolled/prescribed) by a protocolsing physician.
- 1.2. Imaging Services uses standardized exam-based protocols for the use of contrast that include IV contrast administration in CT and MRI. The amount of IV contrast administered is weight-based or protocol based. Radiologists are consulted for any IV contrast modifications, including the addition of or exclusion of IV contrast.
- 1.3. The injection of intravenous contrast must occur by a licensed technologist, registered nurse, physician assistant, or physician under the direct supervision of a supervising practitioner.
  - 1.3.1. Healthcare professionals performing the injection will follow established protocols that involve an intravascular injection of contrast media, understand contraindications to intravascular injection of contrast media, and recognize adverse events following contrast media administration.

### 2. Facility Supervision

- 2.1. During hours covered by a radiologist, the on-site radiologist(s) will fulfill the roles of the protocolsing physician and supervising practitioner.
  - 2.1.1. Radiologist coverage models will dictate the duration of daily radiologist supervision.
- 2.2. For facilities not routinely staffed by a radiologist and for after-hours coverage, a radiologist will fulfill the role of the protocolsing radiologist remotely. Direct supervision of IV contrast administration will be provided by a designated supervising practitioner as specified by the facility.
- 2.3. Practitioner schedules will be used to document appropriate protocolsing and supervising practitioner (s).

## Exceptions

Facilities seeking accreditation from an outside certifying body such as the American College of Radiology (ACR) must meet certification conditions that may include additional criteria for supervision.

## Primary Sources

None

## Secondary Materials

2017, ACR-SPR Practice Parameter for the Use of Intravascular Contrast Media. Retrieved from <https://www.acr.org/-/media/ACR/Files/Practice-Parameters/IVCM.pdf>

2015, 482.26 Condition of Participation: Radiologic Services. Retrieved from <https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/Downloads/R141SOMA.pdf>

<https://www.federalregister.gov/documents/2020/05/08/2020-09608/medicare-and-medicaid-programs-basic-health-program-and-exchanges-additional-policy-and-regulatory>

Medication Ordering Transcribing Policy

Outpatient Services Supervision Policy

*Applies to Alta View, American Fork, Bear River, Cassia, Cedar City, Delta, Fillmore, Garfield, Heber, IMED, Layton, LDS, Logan, McKay, Orem, Park City, Primary Children's Hospital, Riverton, Sanpete, Sevier, Spanish Fork, St. George, TOSH, Utah Valley*

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