



Harmonized

Initiation of Intravenous (IV) or Access/Deaccess of Central Venous Access Devices in Diagnostic Imaging Medical Directive

Diagnostic Imaging Program Council Approved: 30MAY2024

Authorizing Prescriber(s)

All Lakeridge Health Diagnostic Imaging Physicians and Cardiologists

Authorized to Whom

Nurses, Medical Radiation Technologists (MRT) and Diagnostic Medical Sonographers (DMS) working in Diagnostic Imaging who have the knowledge, skill and judgement to initiate intravenous (IV) and/or access and deaccess central venous access devices (CVAD) in accordance with the following Lakeridge Health patient care standards:

- *Adult (16 or older) Central Venous Access Devices (CVAD) Insertion, Removal, Occlusions, Blood Specimen, Implanted Ports Patient Care Standard*
- *Adult (18 years of age or older) Central Venous Access Devices (CVAD) Care and Maintenance Patient Care Standard*

Population

For adult patients registered for a procedure in Diagnostic Imaging which requires IV access.

Order and/or Procedure

The Nurse, MRT or DMS may initiate an intravenous of 0.9% Sodium Chloride and infuse at 30 mL/hr.

The Nurse, MRT or DMS may initiate access to an already established central venous access device such as a PICC line, Power injectable/CT compatible Implanted Port (e.g. Port-a-cath), Power injectable/CT compatible Hickman Catheter, Femoral Line, Internal Jugular Line and infuse 0.9% Sodium Chloride at 30 mL/hr.

The Nurse, MRT or DMS may deaccess an implanted port (e.g. Port-a-cath) with 20 mL flush of 0.9% Sodium Chloride and heparinize with 500 units (100 units/mL in a 5 mL Prefilled syringe).

Indications to the Implementation of the Directive

- The patient requires an injection of contrast media or medication for a procedure in Diagnostic Imaging
- Consent has been obtained
- Pre-procedure assessment has been completed

Contraindications to the Implementation of the Directive

- Patient refused consent
- Patient already has a suitable intravenous infusion

- Physician orders a specific intravenous solution and infusion
- CVAD is blocked
- Patient has Hemodialysis CVAD and attempts for peripheral IV access were unsuccessful; then contact the Nephrologist on call/Nephrology Nurse Practitioner for an order to access the dialysis CVAD

Documentation Requirements

In addition to standard documentation practices, the MRT implementing this medical directive must ensure the following is included in the electronic health record:

- The name of this medical directive
- The procedure implemented
- The name of the implementer
- The date and time
- Signature of implementer including credentials/electronic signature

Review/Evaluation Process

Every 3 years as directed by the Diagnostic Imaging Program.

References

College of Medical Radiation and Imaging Technologists in Ontario. (2024). *Standards of practice*. College of Medical Radiation and Imaging Technologists in Ontario.

College of Nurses of Ontario. (2023). *Scope of practice: Practice standard*. College of Nurses of Ontario.

College of Physicians and Surgeons of Ontario. (2021, March). *Delegation of controlled acts*. <https://www.cpso.on.ca/Physicians/Policies-Guidance/Policies/Delegation-of-Controlled-Acts>

Regulated Health Professions Act, 1991, SO 1991, c 18, s 27.