



Interventional Radiology (IR) Protocols by Medical Radiation Technologists (MRT) – Medical Directive

Diagnostic Imaging Committee Approved: 18JAN2023

Harmonized

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Authorizing Prescriber(s)

Radiologists working at Lakeridge Health Oshawa (LHO) and/or Lakeridge Health Ajax/Pickering (LHAP).

Authorized to Whom

Medical Radiation Technologists (MRT) employed at LHO and/or LHAP who have the knowledge, skill and judgement to protocol Interventional Radiology (IR) requests.

Patient Description/Population

Any patient who has been assessed by the Most Responsible Practitioner (MRP) and has a completed IR requisition that is clear, legible, includes clinical history and/or symptoms and is ordered by the MRP.

Order and/or Procedure

The order and/or procedures are not presented in sequential order. Any one or more of the protocols as indicated in the [Order Table Form](#) may be selected by the MRT upon receipt of the completed IR requisition.

Indications to the Implementation of the Directive

The MRT may implement this medical directive for a patient indicated in the patient description/population who meets the criteria in the [Order Table Form](#) when an IR request has been entered in the Electronic Medical Record (EMR) or on paper following computer downtime procedures.

Contraindications to the Implementation of the Directive

This medical directive must not be implemented and the Radiologist must be consulted in the following circumstances:

- Patient has procedure specific contraindications as listed in the [Order Table Form](#)
- Patient has known allergy or sensitivity to iodinated contrast
- Patient has had a prior adverse reaction to iodinated contrast or to local anaesthetic
- Patient is less than 18 years of age
- Patient is pregnant
- The MRT is unsure of the protocol

Document Sponsor/Owner Group: (Diagnostic Imaging, Date Approved 18JAN2023)

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Consent

Consent will be obtained by the patient or substitute decision maker at the time of the procedure.

Documentation Requirements

In addition to standard documentation practices, the MRT implementing this medical directive must:

- Select the appropriate protocol in the patients' Electronic Health Record (EHR)
- Select the order mode 'as per medical directive'
- Indicate name of the MRT implementing this medical directive as the ordering provider
- Indicate the name of the authorizing provider (i.e., the Radiologist)
- State the full name of this medical directive in the comment section of the protocol
- Finalize the protocol

Review/Evaluation Process

This medical directive will be reviewed every 2 years by the Diagnostic Imaging Program

References

College of Medical Radiation Technologists:

https://www.cmrito.org/pdfs/wymkas/performing_procedures_2018.pdf

<https://www.cmrito.org/programs/professional-practice/standards-of-practice/>

The College of Physicians, Delegation of Controlled Acts



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This table must **not** be used independently apart from the Medical Directive

Order Table Form

Order	Indication	Contraindication	Notes (Optional)
IR Port-a-Cath Line Insertion	Chemotherapy as requested by DRCC Recurrent transfusions	Pregnancy MRT unsure of protocol Patient less than 18 years old	Port Insertion (LHO Only)
IR Port-a-Cath Line Check	Poor Catheter function Pain with use Difficulty Accessing No blood return	Pregnancy MRT unsure of protocol Patient less than 18 years old Known allergy or sensitivity to intravenous contrast	Port check (LHO Only)
RF Sinography/Fistulography RF Gastrostomy Tube Exchange	Broken Blocked Dislodged Pain	Pregnancy MRT unsure of protocol Patient less than 18 years old	G-tube check/change
IR Hickman Line Check IR Hickman Line Insertion IR Hickman Line Removal	No blood return Poor Function Occluded after CVAD protocol has been attempted Broken	Pregnancy MRT unsure of protocol Patient less than 18 years old Known allergy or sensitivity to intravenous contrast	Hickman check/change (LHO Only)
RF Nephrostomy Tube Exchange Bilateral RF Nephrostomy Tube Exchange Left RF Nephrostomy Tube Exchange Right	Routine Blocked Dislodged Pain/Bleeding Leaking	Pregnancy MRT unsure of protocol Patient less than 18 years old Known allergy or sensitivity to intravenous contrast	Procedures related to the care of existing tubes
IR PICC Line Insertion XA PICC Line Insertion XA PICC Line Insertion w Contrast XA PICC Line Insertion w Vessel Selection XA PICC Line Removal	Chemotherapy as requested by DRCC TPN Poor Venous Access	Pregnancy MRT unsure of protocol Patient less than 18 years old	
XA PICC Line Check XA PICC Line Exchange XA PICC Line Exchange w Contrast	No blood return Occluded after CVAD protocol has been attempted Broken, Dislodged	Pregnancy MRT unsure of protocol Patient less than 18 years old	