Injector Pump Single Use Syringe Set-Up: Competency Assessment Tool

Name:	Site:	Date:
Auditor/Assessor:	Title:	Date:

Note: To meet Ministry of Health and Provincial Infection Control Network (PICNet) standards, only Medical Radiation Technologists (MRT's) trained and evaluated annually on their performance will be authorized to set up the injector. Authorized users will be in compliance with this standard at all times.

Standard Met	Standard Not Met	Ref. Std	Injector Set-Up Criteria
			Read *Single Use Syringe Injector Set-Up* prior to hands-on clinical competency evaluation. ABCD-21-12-90162_Injector_Pump_Single_Use_Syringe_Set-Up.pdf
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT cleans injector with approved disinfectant wipes or solution (ie. Cavicide or 0.5% Hydrogen Peroxide) **Note: First wipe cleans, Second wipe disinfects**
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT performs hand hygiene prior to injector set-up as per specific health authority protocol
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT installs syringes directly onto injector pump after opening packaging.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT allows piston(s) to advance completely to remove all air in both syringes prior to loading contrast and saline.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT maintains sterility of connections while removing luer lock caps from contrast and saline syringes and the vented transfer spikes.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT attaches vented transfer spikes to contrast and saline syringes, if used.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT inspects contrast bottle to ensure the correct product is used, the expiration date, color, clarity are appropriate and no foreign bodies are present.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT removes cap from contrast bottle and disinfects the rubber membrane with a 70% isopropyl alcohol swab using a friction rub technique and ensures it is **completely** dry prior to spiking.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT fully inserts spike at a 90 degree angle into the center of the rubber membrane of the contrast bottle, ensuring the sterility of the spike is maintained. **Note: Contrast bottles must only ever be spiked once**
Compliance Date: YYYY.MM.DD			Observations / Comments:

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			MRT attaches contrast bottle with spike to contrast syringe using the luer lock connection, ensuring sterility of connections is maintained.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT inspects saline bag to ensure the correct product is selected and the expiration date, color, and clarity are appropriate and no foreign bodies are present.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT removes luer lock cap from vented transfer spike and attaches to saline syringe using luer lock connections, ensuring sterility of connections is maintained
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT removes protective cap from vented transfer spike and fully inserts spike into saline bag port, ensuring sterility of the connections is maintained.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT fills contrast syringe with prescribed volume.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT fills saline syringe with prescribed volume, if required.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			With injector pointing up, MRT expels all residual air bubbles from the contrast and saline syringes, syringe tubing, and patient extension tubing. **Note: Do NOT apply blunt force using a hand or object to remove air bubbles.**
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT tips injector head and syringes pointing down.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT ensures the cap on the coiled patient extension tubing is in place and sterility of the system is maintained until ready to be connected to the patient.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT activates "Check for Air" button on the injector head.
Compliance Date: YYYY.MM.DD			Observations / Comments:
			MRT clearly labels syringes with time of set-up and initials to validate use.
Compliance Date: YYYY.MM.DD			Observations / Comments:

X

Signature of Technologist (after form reviewed with auditor) *Date*

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Certificate of Competency for MRTs

MEDICAL IMAGING

Record of training, performance evaluation, and authorization to perform Single Use Syringe Injector Set-Up: Medrad Stellant, MRXperion or Spectra Solaris Injectors

_____ has read and understands the *Single Use Syringe Injector Set-Up*: *Medrad Stellant, MRXperion and Spectra Solaris* and procedure. Through training and performance evaluation this user has been deemed competent and is authorized to set up the contrast injector.

_____ _____

User Signature Signature of Trainer / Evaluator

Date of Training: _____

Date of Authorization: _____

COPY TO: Medical Imaging Site Coordinator or Modality Supervisor.

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Approved By:	Lower Mainland Medical Imaging Executive Committee			
	08-JUN-2022			
Owners:	CT Regional Practice Lead, LMMI			
Revision History:	**Version**	**Date**	**Description/ Key Changes**	**Revised By** (Name and Position)
	1.0	10-JUN-2022	Initial Release	Sean West, CT RPL

References:

1. LMMI Multi-Dosing Clinical Practice Standard September 2011
2. College of Physicians and Surgeons of BC. 2021 v1.7 Diagnostic Imaging Accreditation Standards. DQI 2.3 and 2.5.5, DPS 4.4.4

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