

## Injector Pump Multi-Dosing Set-Up: Bracco Empower CTA+: Competency Assessment Tool

Name: \_\_\_\_\_ Site: \_\_\_\_\_ Date: \_\_\_\_\_

Auditor: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

**Note: To meet Ministry of Health and Provincial Infection Control Network (PICNet) standards, only personnel trained and evaluated annually on their performance will be authorized to multi-dose. Authorized multi-dose users will be in compliance with this standard at all times.**

Standard Met	Standard Not Met	Ref. Std	Multi-Dosing Criteria
		5.5.1	MRT reads Multi-Dosing procedure prior to clinical evaluation.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.4.2	MRT cleans injector with approved disinfectant wipes or solution. <b>First wipe cleans, Second wipe disinfects</b>
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.1	MRT performs hand hygiene prior to injector set-up as per specific health authority protocol
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.3	MRT installs syringes with injector pump pointing up immediately after opening package, maintaining sterility of connections.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.4	MRT allows pistons to advance completely to remove all air in both syringes prior to connecting transfer sets.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.6	MRT removes luer lock caps from vented transfer set and connect to contrast and saline syringes, maintaining sterility of connections. (Yellow tube to contrast, Blue tube to saline)
Compliance Date: YYYY.MM.DD			Observations / Comments:
		2.5 5.2.18	MRT maintains sterility of connection when removing protective luer lock cap from coiled tubing of the transfer set Y-line.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		2.5 5.2.18	MRT removes female luer lock cap from a single use extension set with 2 backcheck valves and connect to the distal end of the coiled tubing of the transfer set Y-line, maintaining sterility of connections.
Compliance Date: YYYY.MM.DD			
		5.2.17	MRT maintains single use extension tubing with male luer lock cap on until ready to be connected to the patient.
Compliance Date: YYYY.MM.DD			
		DPS 4.4.4	MRT inspects contrast bottle for right product, expiration date, color, clarity and foreign bodies.
Compliance Date: YYYY.MM.DD			Observations / Comments:

		5.2.8	MRT removes cap from contrast bottle and disinfects the rubber membrane with a 70% isopropyl alcohol swab using a friction rub technique.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.8	MRT visually inspects the rubber membrane of the contrast bottle to ensure it is completely dry prior to spiking.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		2.5 5.2.18	MRT maintains sterility of contrast spike when removing cap from vented transfer set.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.9	MRT fully inserts spike at a 90 degree angle into the center of the rubber membrane of the contrast bottle. <b>Note: Contrast bottles must only ever be spiked once</b>
Compliance Date: YYYY.MM.DD			Observations / Comments:
		DPS 4.4.4	MRT inspects saline bag for correct product, expiration date, color and clarity.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		2.5 5.2.10	MRT maintains sterility of saline bag port when removing rubber cap.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		2.5 5.2.18	MRT maintains sterility of saline spike when removing cap from vented transfer set.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.11	MRT fully inserts spike into saline bag port.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.14 5.2.15	MRT fills contrast and saline syringes with prescribed volumes with injector head and syringes pointing up.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.16	MRT expels all residual air bubbles from the syringes, transfer set and coiled extension tubing with injector pump pointing up. <b>Note: Do NOT apply blunt force using a hand or object to remove air bubbles.</b>
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.17	MRT tips injector head and syringes pointing down to arm injector.
Compliance Date: YYYY.MM.DD			Observations / Comments:
		5.2.19	MRT clearly labels syringes with time of set-up and initials to validate 12 hour 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 Multi-Dose Injector Set-Up: Bracco Empower CTA+ Injector**

\_\_\_\_\_ has read and understands the *Single Use Syringe Injector Set-Up: Bracco Empower CTA+* 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.

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

## References:

1. LMMI Multi-Dosing Injector Set-Up April 2022
2. College of Physicians and Surgeons of BC. 2022 v1.7 Diagnostic Imaging Accreditation Standards. DQI 2.3 and 2.4, DPS 4.4.4