

I-View[™] 2.0 Contrast Enhanced Mammography Imaging

Implementation Guide

Protocol	Notes
Implementation: equipment and software required	 I-View[™] 2.0 software & hardware (copper filter) Selenia® Dimensions® or 3Dimensions™ mammography system with minimum 1.10/2.1 software Computer minimum: CMP-01529/ CMP-01503 Power Injector: single or dual head
Indications, uses	 Diagnostic pathway: Recall from screening Pre-op staging in the setting of cancer detected Monitor effectiveness of drug therapy Pre-biopsy work up: determine if biopsy is needed and if more sites are seen Difficult mammography and ultrasound cases: to direct toward biopsy, return to screening or short term follow up BIRADS 3 lesions: determine if shift to biopsy, routine follow up or short term follow up Nodal metastasis with unknown site of cancer Patient has contraindications for MRI (Claustrophobia, inability to lay prone, MRI unsafe devices in the body: pacemakers, stents, etc.) Screening: High-risk: in women >20% lifetime risk Dense tissue: to improve sensitivity History of high-risk lesions: leading to high risk state for patient
Referral source	 Surgeons Radiologist Medical oncologist Radiation oncologist OB/GYN or other qualified medical practitioner



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Scheduling patients & Procedure room	 After completing patient file with patient's information per Centre's guidelines, explain the procedure to the patient verbally and in writing: risks, benefits and details of the exam including IV placement, contrast allergy and observation after the exam. Room time: 30 minutes – 1 hour 1 hour is recommended at the start as staff experience a learning curve with the technology. Can decrease to 30 mins after staff familiar with the procedures.
Personnel	Radiologist and technologistIf necessary, a nurse for IV and to monitor patient
Contrast injection	 CEM uses standard CT non-ionic iodine contrast media (Follow existing local or national guidelines on contrast media.) Primary Considerations: Allergy information in detail Perform pregnancy and renal function tests prior to injection (glomerular filtration rate <30 mL/minutes/1.73 m²) Contrast dose and rate of injection: patients received 1.5 mL/kg contrast media of choice at a rate of 3 mL/second in the seated position. A single or dual head power injector is recommended.
Crash cart	 Required, training for nurses, radiologists, staff and/or relevant dedicated team if available Local Emergency Number if outpatient center
Contra-Indications	Contrast allergy, pregnancy, and renal insufficiency
Pre-Exam workflow	 Radiologists – Determine if patient requires a 3-in-1 exam¹ (2D, Contrast and Tomosynthesis images in 1 compression) or just a contrast exam. Review images and determine added views. Review indication for exam, allergy history, renal function, patient history. Patient – Can eat a light meal on the day of CEM. Do not put on any deodorant, lotion, cream, powder, talc, oils, or perfume before CEM. Nurse/Technologist – Prepare room and power injector. Place IV and test function.

Protocol	Notes
Images: timing, range of timing, views, diagnostic views	 Follow I-View™ user-interface Approximately 2 minutes after contrast administration is complete, the breast is compressed and images are obtained. The physician will decide the procedure views as desired (as well as which breast the examination begins with, the lesion breast or bi-lateral)
	The optimal imaging window is approximately 2 to 8 minutes post injection. The time may vary depending on lesion type and background parenchymal enhancement.
	Injection 3D LH 3D LH 3D LH Figure 1: Example of the CEM + Tomosynthesis workflow
Compression amount	 Currently there are no standards for compression. The breast should not be in compression, even light, during contrast administration as it could affect uptake.
Technologist training	Will be conducted on-site by a local Hologic representative and supported by additional online educational options.
PACS/workstation, image storage and handling	Storage standard is similar to 2D and 3D images.
Post-Exam Workflow	 Radiologists – Interpret images and determine next steps which may include added mammographic images and/or ultrasound. Nurse/Technologist – Prepare as usual for the next patient. Patient – Drink enough water in the 24 hours after CEM to help eliminate the contrast from body.

^{*2}D, Contrast and Tomosynthesis images in 1 compression

Protocol	Notes
Interpretation (Radiologist training): education module	 Training a case set for readers will be provided and include common artifacts as well as normal, known benign cases and malignancies. ICPME webinars available at www.HologicED.com A total of 4 standard, low-energy (standard mammographic) views and 4 contrast-enhanced views are available, including bilateral CC and MLO projections at both settings (tomo images are available under 3-in-1 mode). Interpretation will be performed on dedicated workstations and compared with prior examinations, if available.
Outcomes	NormalBenign appearing lesion recommended for short term follow up.Biopsy for suspicious lesions for diagnosis
Maintenance, support needed, repairs	Refer to Hologic's® user manuals

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References

¹ Chou C, Lewin J, Chiang C et al. "Clinical Evaluation of Contrast-Enhanced Digital Mammography and Contrast Enhanced Tomosynthesis-Comparison to Contrast-Enhanced Breast MRI" Eur J Radiol. 2015 Dec; 84(12):2501-8. [Epub 2015 Oct 1].

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