COLLEGE OF PHYSICIANS AND SURGEONS OF BRITISH COLUMBIA

Diagnostic Accreditation Program

ACCREDITATION STANDARDS

Mammography

Diagnostic Accreditation Program
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Introduction

In addition to the general standards, the discipline-specific standards for mammography provides additional mandatory requirements and best practices.

Interventional mammography – standards navigation

Interventional mammography procedure type	No.
Mammographically guided biopsies adhere to universal protocol standards	DPS3.0
Mammographically guided biopsies procedures adhere to sample collection standards	GM10.0
Preoperative mammographically guided localization of breast abnormalities adhere to universal protocol standards	DPS3.0
Contrast enhanced mammography procedures adhere to contrast safety standards	DMA DPS4.0 GM4.0
Breast biopsies which are radiographically imaged adhere to specimen radiography standards	GM11.0

Patient preparation

No.		Description	Risk	Reference	Change
					Revised
MA2.0		**MAMMOGRAPHY PATIENT PREPARATION** *Guidance: See also global modality GM2.0 for additional requirements.*			
MA2.2		**Pre-examination information is collected and assessed prior to commencing the examination.** *Guidance: See also global modality GM2.2.*			
MA2.2.3	**M**	The patient's breast surgical history is documented, which includes any history of breast protheses, breast reductions, needle and surgical breast biopsies, mastectomies, partial mastectomies and any other relevant breast surgical information. *Guidance: The patient is screened for breast protheses prior to the examination, as excessive compression could damage or rupture the prothesis.*	M	Mammo-AC-23	Revised
MA2.2.4	**M**	The patient's breast health concern or clinical breast symptom is documented. *Guidance: The location of palpable breast symptoms is described according to various conventions including the clock face position, distance from the nipple, breast quadrant and or location within the coronal plane.*	M	Mammo-AC-23	New
MA2.2.5	**M**	The patient's recent hormonal medication use is documented (e.g. estrogen).	M	Mammo-AC-23	New
MA2.2.6	**M**	The patient's first-degree family history of breast cancer is documented.	M	Mammo-AC-23	New
MA2.2.7	**B**	The patient's pathogenic gene carrier status is documented, for pathogenic genes with an increased risk of breast cancer. *Guidance: Pathogenic gene carrier status is documented if known by the patient. Examples of pathogenic genes with an increased risk of breast cancer can include, but are not limited to, BRCA1, BRCA2, ATM, CDH1, CHEK2, NBN, NF1, PALB2, PTEN, STK11, TP53, RAD51D, RAD51C, and BARD1.*	M	Mammo-AC-23	New
MA2.2.8	**B**	The patient's breast cancer diagnosis and treatment are documented.	M	Mammo-AC-23	New
MA2.2.9	**B**	The patient's higher risk tissue diagnosis of atypical ductal hyperplasia (ADH), atypical lobular hyperplasia (ALH) or classical lobular carcinoma in situ (LCIS) is documented. *Guidance: ADH, ALH, LCIS status is documented if known by the patient or tissue diagnosis records are readily available.*	M	Mammo-AC-23	New

No.		Description	Risk	Reference	Change
MA2.2.10	**B**	The patient's pregnancy and breastfeeding history and current status is documented.	M	Mammo-AC-23	New
MA2.3		**Measures are taken to maintain patient comfort and dignity during the examination.**			
MA2.3.1	**M**	Patients are offered a gown or the ability to wear their personal button-down tops for the duration of the examination. *Guidance: If a patient is wearing their personal button-down top during their examination, the technologist may ask the patient to remove one arm out of their personal button-down top, so that the technologist can properly position.*	H	Mammo-AC-23	Revised

Imaging procedures

No.		Description	Risk	Reference	Change
					Revised
MA3.0		**MAMMOGRAPHY STANDARD OPERATING PROCEDURES/PROTOCOLS** *Guidance: See also global modality GM3.0 for additional requirements.*			
MA3.1		**There is a comprehensive process in place for protocol adoption and development.** *Guidance: See also global modality GM3.1.*			
MA3.1.1	**M**	Protocols are reviewed every one to three years by qualified individual(s). *Guidance: If new equipment or imaging techniques (e.g. digital breast tomosynthesis) are introduced, the imaging service reviews the associated protocols until optimized. These reviews must occur more frequently than every one to three years.*	M	Mammo-AC-23	
MA3.2		**Protocols contain all the information necessary to perform the examination.**			
MA3.2.1	**M**	Protocol information includes a radiation technique, when manual techniques are required (e.g. implants, specimens). *Guidance: Mammography examinations typically utilize an OPDOSE or AEC function.*	M	Mammo-AC-23	Revised
MA3.2.2	**M**	Protocol information includes a description of the equipment and supplies needed. *Guidance: Mammography ancillary equipment may be required for interventional procedures.*	M	Mammo-AC-23	Revised
MA3.2.3	**M**	Protocol information includes a description of patient positioning and or required views.	M	Mammo-AC-23	Revised

No.		Description	Risk	Reference	Change
MA3.2.4	**M**	Protocol information includes a description of how to mark breast health concerns and clinical breast symptoms (i.e. non-cyclical pain, palpable mass, skin abnormalities, etc.) with radiopaque devices, including a recommendation for the type of radiopaque device to be utilized. *Guidance: The intent of MA3.2.4 is to ensure at minimum there is a procedure on how to mark breast health concerns and clinical breast symptoms with radiopaque devices, in accordance with the facility's protocol. In the circumstances of scars, moles, and areas of prior interventions it is up to the facility to determine if these are routinely marked with radiopaque devices, if they are routinely marked this is outlined in the exam protocol.*	M	Mammo-AC-23	New
MA3.2.5	**M**	Protocol information includes when an examination review by a radiologist is required prior to patient discharge of **asymptomatic** diagnostic mammography examinations. When a review by radiologist prior to patient discharge is not required for specific examination types, this is validated by the medical director or delegate and indicated in the protocol manual (i.e. asymptomatic implant screening). *Guidance: The imaging must be reviewed at the next available opportunity and any required follow-up is arranged to ensure the timely interpretation of the examination.*	M	Mammo-AC-23	New
MA3.2.6	**M**	Protocol information includes the type and dose of contrast agents administered, for when contrast enhanced mammography is performed. *Guidance: See DMA, DPS4.0, and GM4.0 for additional contrast requirements.*	M	Mammo-AC-23	New
MA3.3		**Examinations are performed following established protocols.**			
MA3.3.1	**M**	Protocols are readily available to staff performing the examination.	H	Mammo-AC-23	
MA3.3.2	**B**	Protocols are equipment specific, where appropriate.		Mammo-AC-23	

No.		Description	Risk	Reference	Change
MA3.3.4	**M**	Breast health concerns and clinical breast symptoms are marked using radiopaque devices, in accordance with facility protocol. *Guidance: Radiopaque devices may be used to identify a patient's breast health concern and clinical breast symptoms (i.e. non-cyclical pain, palpable mass, skin abnormalities, etc.) and to help correlate them with ultrasound findings. It is recommended that all radiopaque devices associated with a patient's breast health concerns and clinical breast symptoms are identified on the image or in the report, see MA8.5.5. If scars, moles, and or areas of prior interventions are routinely marked, it is also recommended that these are identified on the image or report.*	H	Mammo-AC-23	Revised
MA3.3.8	**M**	Additional views, which are all views in addition to what is indicated by the facility exam protocol, are performed upon request of a radiologist.	M	Mammo-AC-23	Revised
MA3.3.9	**M**	In the case of a patient call-back for additional views, the follow-up is arranged to ensure the timely interpretation of the examination.	H	Mammo-AC-23	Revised
MA3.4		**Mammograms are reviewed for diagnostic quality before the patient is released.**			
MA3.4.1	**M**	Image review ensures the appropriate positioning and technical factors.	H	Mammo-AC-23	Revised
MA3.4.2	**M**	Image review ensures the presence of artifacts and motion does not impact the diagnostic image quality.	H	Mammo-AC-23	Revised
MA3.4.3	**M**	Image review ensures the correct view description and marker assignment.	H	Mammo-AC-23	Revised
MA3.5		**Interventional mammography procedures are performed following established protocols.** *Guidance: For biopsies see DPS3.0 and GM10.0 for additional requirements. For contrast-enhanced mammography procedures see DMA, DPS4.0, and GM4.0 for additional contrast requirements.*			New
MA3.5.1	**M**	For mammographically guided biopsy procedures (stereotactic and/or DBT), the lesion verification is performed by a physician.	H	ACR-PP-Stereo	New
MA3.5.2	**B**	For mammographically guided biopsy procedures (stereotactic and/or DBT), imaging is performed to confirm appropriate targeting.		ACR-PP-Stereo	New
MA3.5.3	**B**	For mammographically guided tissue clip insertion, imaging is performed to confirm clip placement relative to the targeted lesion.		Mammo-AC-23	New
MA3.5.4	**B**	For mammographically guided wire or seed localization, imaging is performed to confirm wire or seed placement relative to the targeted lesion.		Mammo-AC-23	New

No.		Description	Risk	Reference	Change
MA3.5.5	**B**	For contrast enhanced mammography, the order of imaging is considered to best visualize abnormalities before contrast washes out (i.e. contrast washes out typically within seven to ten minutes). *Guidance: If the abnormity or lesion is unilateral, both views of the affected breast can be obtained first before proceeding to the contralateral breast. Also, if it is known that specialized views of one breast are needed, it can be obtained before imaging of the contralateral breast. See DMA, DPS4.0, and GM4.0 for additional contrast requirements.*		ACR-CEM	New

Interpretation and reports

No.		Description	Risk	Reference	Change
					Revised
MA8.0		**MAMMOGRAPHY INTERPRETATION AND REPORTS** *Guidance: See also global modality GM8.0 for additional requirements.*			
MA8.5		**Reports are comprehensive and include appropriate patient and relevant clinical information.** *Guidance: See GM8.2 for additional requirements.*			New
MA8.5.1	**M**	Reports include a succinct description of the overall breast density using ACR BI-RADS® breast density descriptors. *Guidance: For a list of ACR BI-RADS® descriptors review the ACR BIRADS Atlas 5th edition (https://www.acr.org/Clinical-Resources/Reporting-and-Data-Systems/Bi-Rads).*	M	ACR-BI-RADS-Atlas	New
MA8.5.2	**M**	Reports include a description and location of findings using ACR BI-RADS® descriptors. *Guidance: for a list of ACR BI-RADS® descriptors review the ACR BIRADS Atlas 5th edition (https://www.acr.org/Clinical-Resources/Reporting-and-Data-Systems/Bi-Rads).*	M	ACR-BI-RADS-Atlas	New
MA8.5.3	**M**	Reports include an impression statement with an ACR BI-RADS® assessment category (e.g. "Category 4a: low suspicion for malignancy"). *Guidance: for a list of ACR BI-RADS® assessment categories review the ACR BIRADS Atlas 5th edition (https://www.acr.org/Clinical-Resources/Reporting-and-Data-Systems/Bi-Rads).*	M	ACR-BI-RADS-Atlas	New
MA8.5.4	**M**	Reports indicating abnormal findings include an impression statement with a recommendation for clinical management (e.g. "short-interval follow-up," "tissue diagnosis," etc.).	M	ACR-BI-RADS-Atlas	New
MA8.5.5	**B**	Reports include identification of radiopaque devices and the indication for use, as they relate to a patient's breast health concern and clinical breast symptoms. *Guidance: If radiopaque devices are used to identify areas associated with a patient's breast health concern and clinical breast symptom, the report indicates which devices were used and what they are indicating.*		Mammo-AC-23	New

No.		Description	Risk	Reference	Change
MA8.5.6	**B**	Reports indicating abnormal findings which resulted in a biopsy include a Rad-Path correlation statement. *Guidance: Rad-Path correlation facilitates detection of discordant radiologic and pathologic findings.*		Mammo-AC-23	New

Acceptance testing

No.		Description	Risk	Reference	Change
					Revised
MA12.0		**ACCEPTANCE TESTING OF MAMMOGRAPHY SYSTEMS** *Guidance: See also equipment and supplies DES2.0 for additional requirements.*			
MA12.2		**Acceptance testing of digital mammography systems is performed by a medical physicist after purchase and prior to clinical.** *Guidance: Full field digital mammography (FFDM) is referred to as "digital mammography" for the purposes of DAP standards. For digital breast tomosynthesis see MA12.3. See DES2.0 for additional requirements.*			Revised
MA12.2.1	**M**	Acceptance testing of digital mammography systems includes evaluation of the mechanical properties, as well as any other mechanical checks as recommended by the manufacturer.	H	SC-36	Revised
MA12.2.2	**M**	Acceptance testing of digital mammography systems includes evaluation of the safety systems for damage, as well as any other safety checks as recommended by the manufacturer.	H	SC-36	Revised
MA12.2.3	**M**	Acceptance testing of digital mammography systems includes evaluation of the (half-value layer, HVL) X-ray beam filtration.	H	SC-36	Revised
MA12.2.4	**M**	Acceptance testing of digital mammography systems includes evaluation of the X-ray tube voltage (kVp) accuracy and reproducibility.	H	SC-36	Revised
MA12.2.5	**M**	Acceptance testing of digital mammography systems includes evaluation of the radiation output and linearity.	H	SC-36	Revised
MA12.2.7	**M**	Acceptance testing of digital mammography systems includes evaluation of the timer accuracy and reproducibility.	H	SC-36	Revised
MA12.2.8	**M**	Acceptance testing of digital mammography systems includes evaluation of the X-ray field to light field alignment.	H	SC-36	Revised
MA12.2.9	**M**	Acceptance testing of digital mammography systems includes evaluation of the radiation leakage.	H	Mammo-AC-23	Revised
MA12.2.10	**M**	Acceptance testing of digital mammography systems includes evaluation of the accuracy and functionality of all controls, meters, lights and indicators.	H	SC-36	Revised
MA12.2.11	**M**	Acceptance testing of digital mammography systems includes evaluation of the compression paddle alignment, compressive force, and thickness accuracy.	H	SC-36	Revised

No.		Description	Risk	Reference	Change
MA12.2.16	**M**	Acceptance testing of digital mammography systems includes evaluation of the automatic exposure control (AEC) performance.	H	SC-36	Revised
MA12.2.18	**M**	Acceptance testing of digital mammography systems includes evaluation of the backup timer.	H	Mammo-AC-23	Revised
MA12.2.19	**M**	Acceptance testing of digital mammography systems includes an evaluation of the dosimetry (mean glandular dose).	H	SC-36	Revised
MA12.2.21	**M**	Acceptance testing of digital mammography systems includes evaluation of image spatial resolution. *Guidance: Modular transfer function (MTF) is recommended when applicable.*	H	SC-36	Revised
MA12.2.22	**M**	Acceptance testing of digital mammography systems includes an evaluation of image contrast.	H	Mammo-AC-23	Revised
MA12.2.23	**M**	Acceptance testing of digital mammography systems includes evaluation of image quality using a MAP- or ACR-approved breast mimicking QC Phantom.	H	ACR-Mammo-QC	Revised
MA12.2.24	**M**	Acceptance testing of digital mammography systems includes evaluation of the digital detector residual image (e.g. ghosting).	H	SC-36	Revised
MA12.2.25	**M**	Acceptance testing of digital mammography systems includes evaluation of the image geometric distortion.	H	SC-36	Revised
MA12.2.27	**M**	Acceptance testing of digital mammography systems includes an assessment of missed tissue at the chest wall.	H	SC-36	New
MA12.2.28	**M**	Acceptance testing of digital mammography systems includes evaluation of image artifacts.	H	SC-36	New
MA12.2.29	**M**	Acceptance testing of digital mammography systems includes evaluation of detector noise.	H	SC-36	New
MA12.2.30	**M**	Acceptance testing of digital mammography systems includes evaluation of uniformity.	H	SC-36	New
MA12.2.31	**M**	Acceptance testing of digital mammography systems includes evaluation of the DICOM overlay compliance with the IHE mammography profile.	H	SC-36	New
MA12.3		**Acceptance testing of digital breast tomosynthesis systems is performed by a medical physicist after purchase and prior to clinical use.** *Guidance: See DES2.1 for additional requirements.*			New

No.		Description	Risk	Reference	Change
MA12.3.1	**M**	Acceptance testing of digital breast tomosynthesis systems is performed according to MA12.2.	H	Mammo-AC-23	New
MA12.3.2	**B**	Acceptance testing of digital breast tomosynthesis systems includes evaluation of Z resolution, to ensure blurring in the z-direction is not excessive.		ACR-QC- Mammo	New
MA12.3.3	**B**	Acceptance testing of digital breast tomosynthesis systems includes evaluation of volume coverage, to ensure the entire breast volume is imaged.		ACR-QC-Mammo	New
MA12.4		**Acceptance testing of stereotactic biopsy guidance equipment is performed after purchase and prior to clinical use.** *Guidance: See DES2.1 for additional requirements.*			New
MA12.4.1	**M**	Acceptance testing of stereotactic biopsy guidance equipment is performed as per manufacturer's specifications or industry accepted best practices.	M	Mammo-AC-23	New
MA12.4.2	**M**	Acceptance testing of stereotactic biopsy guidance equipment includes an assessment of needle localization accuracy.	M	ACR-QC- Stereo	New

Quality assurance

No.		Description	Risk	Reference	Change
					Revised
MA13.0		**QUALITY CONTROL TESTING OF MAMMOGRAPHY SYSTEMS** *Guidance: See also equipment and supplies DES3.0 for additional requirements.*			
MA13.1		**Quality control (QC) procedures are performed by staff knowledgeable in the testing procedures.**			
MA13.1.1	**M**	There is a designated technologist who oversees the mammography QC program. *Guidance: The designated technologist can assign the performance of the QC tests and processes to other technologists.*	M	Mammo-AC-23	Revised
MA13.9		**Daily quality control procedures are established and used to monitor performance of digital mammography and digital breast tomosynthesis systems.** *Guidance: Daily quality control tests are performed at the beginning of each day that mammography is conducted before acquiring any patient images.*			Revised
MA13.9.1	**M**	Daily quality control testing of digital mammography and digital breast tomosynthesis systems includes the manufacturer's recommended equipment initialization.	M	Mammo-AC-23	Revised
MA13.9.2	**M**	Daily quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of equipment condition to assess for damaged components and cleanliness.	M	Mammo-AC-23	Revised
MA13.10		**Weekly quality control procedures are established and used to monitor performance of digital mammography and digital breast tomosynthesis systems.**			
MA13.10.4	**B**	Weekly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of phantom fiber, speck group and mass scoring using a MAP or ACR approved breast mimicking QC Phantom. *Guidance: Review phantom manufacturer's specifications for minimum performance criteria (e.g. 2 fibers, 3 speck groups, 2 masses, and no clinically significant artifacts).*	M	ACR-QC- Mammo	Revised

No.		Description	Risk	Reference	Change
MA13.10.5	**M**	Weekly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of artifacts using a uniform phantom covering the entire detector for all target and filter combinations used (i.e. flat field or full field artifact testing). *Guidance: An artifact is considered significant if it may mimic or obscure anatomic features.*	M	CARMAP-Std	New
MA13.10.6	**M**	Weekly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of artifacts using a uniform phantom covering the entire magnification stand for all target filter combinations used.	M	CARMAP-Std	New
MA13.10.7	**B**	Weekly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of the contrast-to-noise ratio (CNR).		CARMAP-Std	New
MA13.10.8	**B**	Weekly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of the signal difference-to-noise ratio (SDNR) using a phantom representing average breast thickness and a contrast object (i.e. Double D phantom testing), as applicable.		SC-36	New
MA13.11		**Monthly quality control procedures are established and used to monitor performance of digital mammography and digital breast tomosynthesis systems.**			
MA13.11.1	**M**	Monthly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of the overall unit integrity and condition. *Guidance: Criteria as recommended by the manufacturer.*	M	SC-36	Revised
MA13.11.3	**B**	Monthly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of the compression thickness indicator, as applicable. *Guidance: Testing either performed at the frequency recommended by the manufacturer or monthly, whichever is the higher frequency.*		ACR-QC- Mammo	New
MA13.12		**Quarterly quality control procedures are established and used to monitor performance of digital mammography and digital breast tomosynthesis systems.**			

No.		Description	Risk	Reference	Change
MA13.12.2	**M**	Records are retained of every rejected image, including the reason the image was rejected (e.g. insufficient image quality, patient motion, artifacts, X-ray equipment failure, etc.).	M	Mammo-AC-23	New
MA13.12.3	**M**	Quarterly quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of the reject image analysis. Reject images are defined as images of inadequate quality excluded from the patient's medical record. *Guidance: Quarterly analysis of reject records is performed to help identify and correct any trends or rejected errors. The reject rate shall be a maximum of 5%, ideally less than 2%.*	M	Mammo-AC-23	New
MA13.13		**Semi-annual quality control procedures are established and used to monitor performance of digital mammography and digital breast tomosynthesis systems.**			Revised
MA13.13.1	**M**	Semi-annual quality control testing of digital mammography and digital breast tomosynthesis systems includes evaluation of the compression device force.	M	Mammo-AC-23	Revised
MA13.14		**Annual quality control procedures are established and used to monitor performance of digital mammography**.			Revised
MA13.14.1	**M**	Annual quality control testing of digital mammography systems includes evaluation of the mechanical properties, as well as any other mechanical checks as recommended by the manufacturer.	M	SC-36	Revised
MA13.14.2	**M**	Annual quality control testing of digital mammography systems includes evaluation of the safety systems for damage, as well as any other safety checks as recommended by the manufacturer.	M	SC-36	Revised
MA13.14.3	**M**	Annual quality control testing of digital mammography systems includes evaluation of the (half-value layer, HVL) X-ray beam filtration.	M	SC-36	Revised
MA13.14.4	**M**	Annual quality control testing of digital mammography systems includes evaluation of the X-ray tube voltage (kVp) accuracy and reproducibility.	M	SC-36	Revised
MA13.14.5	**M**	Annual quality control testing of digital mammography systems includes evaluation of the timer accuracy and reproducibility.	M	SC-36	Revised
MA13.14.6	**M**	Annual quality control testing of digital mammography systems includes evaluation of the radiation output and linearity.	M	SC-36	Revised

No.		Description	Risk	Reference	Change
MA13.14.9	**M**	Annual quality control testing of digital mammography systems includes evaluation of the X-ray field to light field alignment.	M	SC-36	Revised
MA13.14.10	**B**	Annual quality control testing of digital mammography systems includes evaluation of the accuracy and functionality of all controls, meters, lights and indicators.		Mammo-AC-23	Revised
MA13.14.11	**M**	Annual quality control testing of digital mammography systems includes evaluation of the compression paddle alignment, compressive force, and thickness accuracy.	M	Mammo-AC-23	Revised
MA13.14.16	**M**	Annual quality control testing of digital mammography systems includes evaluation of the automatic exposure control (AEC) performance.	M	SC-36	Revised
MA13.14.18	**M**	Annual quality control testing of digital mammography systems includes evaluation of the backup timer.	M	Mammo-AC-23	Revised
MA13.14.19	**M**	Annual quality control testing of digital mammography systems includes evaluation of the dosimetry (mean glandular dose).	M	SC-36	Revised
MA13.14.21	**M**	Annual quality control testing of digital mammography systems includes evaluation of image spatial resolution. *Guidance: Modular transfer function (MTF) is recommended when applicable.*	M	SC-36	Revised
MA13.14.22	**M**	Annual quality control testing of digital mammography systems includes evaluation of image contrast.	M	SC-36	Revised
MA13.14.23	**M**	Annual quality control testing of digital mammography systems includes evaluation of image quality using a MAP- or ACR-approved breast mimicking QC Phantom.	M	SC-36	Revised
MA13.14.24	**M**	Annual quality control testing of digital mammography systems includes evaluation of the digital detector residual image (e.g. ghosting).	M	SC-36	Revised
MA13.14.25	**M**	Annual quality control testing of digital mammography systems includes evaluation of the image geometric distortion.	M	SC-36	Revised
MA13.14.27	**M**	Annual quality control testing of digital mammography systems includes evaluation of missed tissue at the chest wall.	M	SC-36	New
MA13.14.28	**M**	Annual quality control testing of digital mammography systems includes evaluation of image artifacts.	M	SC-36	New

No.		Description	Risk	Reference	Change
MA13.14.29	**M**	Annual quality control testing of digital mammography systems includes evaluation of detector noise.	M	SC-36	New
MA13.14.30	**M**	Annual quality control testing of digital mammography systems includes evaluation of uniformity.	M	SC-36	New
MA13.14.31	**B**	Annual quality control testing of digital mammography systems includes evaluation of DICOM overlay compliance with the IHE mammography profile.		SC-36	New
MA13.15		**Annual quality control procedures are established and used to monitor performance of digital mammography of digital breast tomosynthesis systems.**			
MA13.15.1	**M**	Annual quality control testing of digital breast tomosynthesis systems is performed according to MA13.14.	M	Mammo-AC-23	Revised
MA13.15.2	**B**	Annual quality control testing of digital breast tomosynthesis systems includes Z resolution assessment, to ensure blurring in the z-direction is not excessive.		ACR-QC- Mammo	New
MA13.15.3	**B**	Annual quality control testing of digital breast tomosynthesis systems includes volume coverage evaluation, to ensure the entire breast volume is imaged.		ACR-QC- Mammo	New

Stereotactic biopsy guidance equipment quality assurance

No.		Description	Risk	Reference	Change
MA13.16		**Routine quality control procedures are established and used to monitor performance of stereotactic biopsy guidance equipment.**			New
MA13.16.1	**M**	Routine quality control testing of stereotactic biopsy guidance equipment is performed as per manufacturer's specifications or industry-accepted best practices.	M	Mammo-AC-23	New
MA13.16.2	**M**	Annual quality control testing of stereotactic biopsy guidance equipment includes an assessment of needle localization accuracy.	M	ACR-QC-Stereo	New

References

Abbreviation	Reference
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ACR-CEM	American College of Radiology. ACR Contrast Enhanced Mammography, BIRADS Atlas [Internet]. Virginia: American College of Radiology; 2020. Available from: https://www.acr.org/-/media/ACR/Files/RADS/BI-RADS/BIRADS_CEM_2022.pdf
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ACR-QC-Stereo	American College of Radiology, Committee on Stereotactic Breast Biopsy Accreditation and Quality Assurance. ACR Stereotactic Breast Biopsy Quality Control Manual [Internet]. Virginia: American College of Radiology; 1999. Available from: https://www.acr.org/-/media/ACRAccreditation/Documents/Stereotactic/1999-ACR-SBBAP-QC-Manual.pdf
CARMAP-Std	Canadian Association of Radiologists. Canadian Association of Radiologists Mammography Accreditation Program Standards, Version 1.3. Ottawa: Canadian Association of Radiologists; 2022.
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