#### Self-assessment



This self assessment worksheet may be used in preparation for an assessment. It does not need to be returned to NATA.

RANZCR	DIAS 2015	Description of Standard	Evidence Sighted
	Part 1	Organisational Standards	
1.2 & 1.4	Std 1.1	Safety and Quality Governance Standard	
4.1 & 4.2 (11.2; 12.2; 13.3; 14.2; 15.3; 16.4;17.2)	Std 1.2	Registration and Licensing Standard	
6.3.2 (11.3.4.2; 12.4.1; 16.6)	Std 1.3	Radiation Safety Standard	
3.2	Std 1.4	Equipment Inventory Standard	
3.1; 4.2.4; 6.1	Std 1.5	Equipment Servicing Standard	
6.2 (13.4; 16.6.1; 17.4.2)	Std 1.6	Healthcare Associated Infection Standard	
	Part 2	Pre-Procedure Standards	
5.3.1 & 5.3.2 (11.3.1; 13.4.1; 14.3.2; 15.4.2; 17.3.3)	Std 2.1	Provision of Service Standard	
5.3.4; 7.3; 7.6; 7.7	Std 2.2	Consumer Consent and Information Standard	
7.1; 7.2; 7.4	Std 2.3	Patient Identification & Procedure Matching Standard	

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RANZCR	DIAS 2015	Description of Standard	Evidence Sighted
1.10; 5.4.2; 6.6.3	Std 2.4	Medication Management Standard	
	Part 3	Procedure Standards	
5.4 (11.3.2; 14.3.4; 15.4.4; 16.5.4; 17.3.4)	Std 3.1	Diagnostic Imaging Protocol Standard	
6.3.1 (11.3.4; 12.3.2; 15.5.1;16.6.2)	Std 3.2	Optimised Radiation Technique Charts Standard	
	Part 4	Post Procedure Standards	
5.5; 8.3.2; 8.7.4	Std 4.1	Communicating Results and Reports Standard	
NA	Std 4.2	Findings of Self-Determined Services Standard	
1.8	Std 4.3	Consumer and Stakeholder Feedback and Complaints Management Standard	

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Clause	Standard	QM cross reference	Comments
1 PRAC	TICE MANAGEMENT SYSTEM		
1	Practice Management System		
1.1	Practice Management System		
Indicator i	The senior management of the practice ensures that the required operational policies, procedures and practice management system are implemented, applied and are continuously improved.		
Indicator ii	The practice ensures that all personnel familiarise themselves with and commit themselves to policies and procedures and implement these in their work.		
1.2	Quality Manual		
Indicator i	The quality manual includes a quality policy defining the quality objectives.		
	The quality policy is issued under the authority of senior management, and includes managements commitment to:		
Indicator ii	<ul> <li>a) good professional practice and compliance with these RANZCR Standards; and</li> </ul>		
	b) continual improvement of the effectiveness of the management system and to the quality of all services provided.		
Indicator iii	It includes policies relating to the management system.		
Indicator iv	It outlines the structure of the practice's documentation hierarchy.		
Indicator v	It makes reference to supporting documentation.		

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Clause	Standard	QM cross reference	Comments
Indicator vi	It defines the role and responsibilities of management personnel, including the Quality Manager.		
1.3	Quality Manager		
Indicator i	<ul><li>The practice personnel records identify:</li><li>a) the quality manager and his/her associated job description; OR</li><li>b) that if the role of quality manager is fulfilled within the practice across more</li></ul>		
	than one position, and the practice can identify which personnel members fulfil this role and how this is co-ordinated.		
	Documentation		
1.4	A master list of controlled documents shall be maintained which identifies the current version and distribution of documents.		
Indicator i	The practice has established a documentation system		
Indicator ii	All documents are uniquely identified to include the date of issue or revision number, page numbering (including total number of pages) and the issuing authority.		
Indicator iii	Procedures are established to define how changes to documents are to be made and controlled		
Indicator iv	All documents are periodically reviewed and revised when necessary, and approved or reapproved by authorised personnel prior to issue.		
Indicator v	Only current versions of documents are available.		
Indicator vi	Where handwritten amendments are allowed, they are initialled and dated.		

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Clause	Standard	QM cross reference	Comments
Indicator vii	Master copies of old and/or superseded document versions are retained or archived for legal and knowledge preservation purposes and are appropriately identified.		
Indicator viii	When its examinations involve remote reporting via teleradiology, the practice has documentation clearly defining the agreed responsibilities of both the examining and reporting sites. This includes issues of liability, patient safety, transmission arrangements, report turnaround times and confidentiality.		
1.5	Records		
Indicator i	The practice records are legible, identifiable to the responsible personnel, held secure to prevent loss or unauthorised access, and retrievable.		
Indicator ii	Original data (electronic or hard copy) are retained according to relevant legislation, unless such records are scanned into the Radiology Information System (RIS).		
Indicator iii	Where such original records are in hard copy format, these are only disposed of within the retention period after they have been scanned into the RIS and checked for completeness.		
Indicator iv	Corrections to records ensure that the original recording is not made illegible and that the correction is initialled and dated. Equivalent measures are taken for records held electronically.		
Indicator v	All records (including billing records and reports, but excluding images) are retained in accordance with the appropriate statutory requirement depending on the state/territory. Where such a regulatory requirement does not exist, the practice retains records for a minimum of 36 months.		
Indicator vi	There are procedures in place which ensure that electronic records are protected, backed up and unauthorised amendment of such records is prevented.		

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Clause	Standard	QM cross reference	Comments
Indicator vii	There is a disaster recovery system that addresses the risk of network failure and also takes into consideration PACS, image failure and teleradiology services.		
Indicator viii	Where data is transmitted across a wide area network it is encrypted or protected by a username and password.		
1.6	Corrective and Preventive Action		
Indicator i	Process for identifying and investigating non-conforming work and departures from authorised policies and procedures, and for implementing corrective action/s accordingly.		
Indicator ii	Documented policies and procedures outlining the appropriate corrective and preventive actions		
Indicator iii	It has a process for identifying and implementing preventive action to eliminate the causes of potential non-conformities, incidents and adverse clinical events.		
Indicator iv	Corrective and preventive action activity is recorded. Staff understand incident reporting processes, what constitutes reportable incidents and their responsibilities in this regard.		
1.7	Continuous Quality Improvement		
Indicator i	The practice has implemented a continuous quality improvement schedule which establishes a risk register.		
Indicator ii	An audit against theses Standards and the Practices own policies and procedures occur at least annually.		
Indicator iii	Procedures are in place to ensure the objectivity and impartiality of auditors and the audit process itself. Independent auditors should be guided by ISO standard 19011		
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Clause	Standard	QM cross reference	Comments
Indicator iv	This audit includes review of the practice's corrective and preventive action processes and activity, and the effectiveness of any such action taken.		
Indicator v	It has records of participation in and compliance with external quality assurance activities where these are available (including image reviews).		
Indicator vi	The practice identifies key areas of its operations for quality improvement, including through the use of patient experience, and implements appropriate training accordingly.		
1.8	Feedback and Complaints		
Indicator i	Feedback is actively sought from patients and referrers		
Indicator ii	The Practice has a policy covering the procedure for handling feedback and complaints, which should be made clear to all staff, including staff training in managing and responding to feedback and complaints, is available to the public and referrers, and is adhered to by personnel.		
Indicator iii	Procedures should be transparent, fair, efficient and timely.		
Indicator iv	Records are maintained of all feedback, complaints, investigations and corrective actions taken, and support open disclosure of errors and adverse patient outcomes.		
1.9	Management Review		
Indicator i	Records of management system reviews are kept together with any action plans, outcomes and monitoring activities.		
Indicator ii	For Practice groups that have a board of directors, senior management should report a summary of this review process regularly to the board.		

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Clause	Standard	QM cross reference	Comments
Indicator iii	A risk register is maintained that reflects the actions and mitigations taken in response to various risks.		
1.10	Supplies		
Indicator i	Procedures to manage purchasing of services and supplies. List of all suppliers, contractors and consultants is maintained,		
Indicator ii	Purchased products and services are verified at appropriate intervals.		
Indicator iii	Purchased materials and products are stored in designated storage areas within the facility which is designed to prevent damage and deterioration to the product prior to use.		
Indicator iv	Where special storage conditions are required to prevent deterioration (e.g. Refrigeration), procedures are in place to ensure those conditions are adequately controlled and maintained.		
Indicator v	Contracts with such suppliers specify exactly how the supplier and the Practice will cooperate in the case of an incident; for example, faulty product, breach of service level agreement or breach of data.		

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2 FACILI	2 FACILITIES					
2 Facilities	Facilities       Practice facilities shall support the delivery of safe, quality clinical (diagnostic and/or interventional) radiology services. These facilities shall be clean and constructed to optimise patients' comfort (including their need for privacy) and to accommodate special needs.					
2.1	Facilities for Imaging Procedures					
Indicator i	The practice's facilities comply with legislative requirements.					
Indicator ii	Access to and use of areas affecting the quality of the imaging procedures and/or safety of patients and personnel is controlled.					
Indicator iii	There is effective separation between neighbouring areas in which there are incompatible activities.					
Indicator iv	The cleanliness of the facilities is maintained.					
Indicator v	Appropriate staff amenities are provided					
2.2	Patient Facilities					
Indicator i	The practice has facilities available which optimise the comfort of its patient population and seeks ongoing feedback.					
Indicator ii	Facilities are available for disrobing which ensure the privacy of patients.					
Indicator iii	Patient facilities are designed to accommodate special needs required by the patient population of the practice.					

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Clause	Standard	QM Cross reference	Comments						
3 EQUIP	BEQUIPMENT								
3.1	General								
Indicator i	The practice holds state/territory regulatory compliance certificates for each piece of diagnostic and/or interventional radiology equipment it operates within the relevant jurisdiction. Such certificates shall be as current as the regulatory environment permits.								
Indicator ii	Records of such compliance testing are held at the practice site.								
Indicator iii	It carries out quality control, maintenance and calibration of equipment used for all of its imaging services and maintains records of all such activity.								
Indicator iv	Records of remedial actions are kept for the operational life of the equipment at the practice.								
Indicator v	Such quality control and maintenance activity is carried out in accordance with both manufacturers' guidelines and regulatory requirements by appropriately qualified persons.								
Indicator vi	The practice complies with legislation concerning the procurement, sale or disposal of any equipment which generates ionising radiation								
Indicator vii	Equipment should only be operated by appropriately certified and licensed, where required, staff.								
Indicator viii	When purchasing or upgrading equipment and software the Practice obtains an IHE Integration Statement for the current model or version being purchased or upgraded from the manufacturer, and consults with the vendor regarding the proposed upgrade and retains this advice in writing.								

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Clause	Standard	QM Cross reference	Comments
3.2	Equipment Inventory		
Indicator i	The practice maintains a current equipment inventory which includes (but is not limited to):		
	Name of item, manufacturer, serial number (or other identifier		
	Notice/certificate of registration or licence, where applicable.		
	Condition when acquired (i.e. new, re-conditioned		
	Date of Installation		
Indicator ii	The equipment inventory, for each piece of equipment, contains:		
	The acceptance performance certificate		
	The instruction manual		
	A statement of the manufacturer's specifications		
	Current formal statement of modifications made to the equipment, and/or its operating software and applications, after purchase.		
Indicator iii	The Practice has a register of all its data, including, but not limited to:		
	Software programs		
	Data flow diagrams		
	Systems the Practice interfaces with		
	Where patient and clinical data reside		
	Where backups reside.		

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Clause	Standard		Comments
3.3	Equipment Sedation and Monitoring		
Indicator i	Sedation is only performed in a location which is equipped with the resources to deal with a cardiopulmonary emergency according to the ANZCA PS09 Guidelines <sup>[</sup> .		
Indicator ii	Where sedation of paediatric patients is carried out:		
	The monitoring equipment is capable of measuring oxygen saturation, end tidal CO2 and (non-invasively) blood pressure		
	There is separate oxygen saturation monitoring for the recovery area		
	• There are facilities and equipment for endotracheal intubation of children.		
Indicator iii	The practice complies with any regulatory and/or licensing requirements applicable to the use of sedation.		
3.4	Equipment – Anaesthesia and Monitoring		
Indicator i	Equipment for general anaesthesia and the monitoring of anaesthetised patients is available on site and meets the requirements set out in the ANZCA PS55 Policy <sup>[3]</sup> .		
Indicator ii	Where procedures are carried out on paediatric patients requiring anaesthetic:		
	• Anaesthetic monitoring equipment is capable of measuring oxygen saturation, end-tidal CO2, and (non-invasively) blood pressure.		
	• There is separate oxygen saturation monitoring for the recovery area and there are facilities and equipment for endotracheal intubation of children.		
	• Procedures on children under one year of age requiring general anaesthesia are not performed in units without specialist paediatric facilities.		

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Clause	Standard	QM Cross reference	Comments
Indicator iii	The practice complies with any regulatory and/or licensing requirements applicable to the use of anaesthesia.		
3.5	Equipment – Resuscitation		
Indicator i	The practice maintains current inventories for resuscitation equipment and associated drugs.		
Indicator ii	The practice carries the minimum resuscitation equipment required to perform Advanced Life Support including an Automated External Defibrillator (AED).		
Indicator iii	This equipment is immediately available and maintained so that it is in working order whenever intravenous or other contrast administration takes place.		
Indicator iv	The practice has a process for checking that resuscitation drugs are current, and not out of date, and records these checks.		

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Clause	Standard	QM Cross reference	Comments
3.6.1	Computers and Automated Equipment – General		
Indicator i	The Practice has documented procedures for		
	Securing practice networks and their interfaces with other networks, including the public internet		
	Connections from and to individual imaging devices may require particular attention		
	Ensuring the integrity, availability, and confidentiality of data collection and entry		
	Data storage (on- and off-site)		
	Data transmission		
	Data processing		
	Backup protocols		
	Disaster recovery systems with particular consideration of digital imaging and Teleradiology services		
	Business continuity plan		
	Data breach notification plan		
	Risk management system.		
	The Practice shall ensure that computer hardware and automated equipment are appropriately serviced, and that software is updated and patched as required.		
	The Practice shall provide appropriate environmental and operating conditions to ensure the optimal functioning of computer hardware		
Indicator ii	The Practice has documented instructions for use of software at the Practice		
Indicator iii	The Practice has service logs of computer and automated equipment, and records of software updates.		
Indicator iv	The Practice has systems for monitoring the environmental and operating conditions in equipment rooms.		

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Clause	Standard	QM Cross reference	Comments
Indicator v	The Practice can demonstrate the use of additional security to protect patient information when using shared health information databases		
3.6.2	<b>Diagnostic Workstations</b> Monitors and display software used for reporting and diagnosis must meet the requirements for 'Primary (diagnostic) workstations'. There are less stringent requirements for "Secondary (review) workstations", which may be		
	used for monitoring workflow or case review, but not for primary diagnosis.		
3.6.2.1	Display Software		
Indicator i	The display systems used for reporting by the radiologist provide the following minimum functions to support accurate interpretation of images by the radiologist for all modalities:		
	Panning		
	Image Magnification		
	Rotation		
	Window level and width adjustment		
	Measurement (length at least)		
	Signal intensity Measurement		
	Total number of images in study.		
3.6.2.2	Monitors		
	The practice shall ensure that diagnostic imaging monitors are appropriate for the activity for which they are used.		
Indicator i	The practice ensures that initial quality assurance and subsequent reporting of images for PACS or teleradiology is performed on primary monitors.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	The Practice's primary monitors for CR and DR meet the requirements set out in Appendix D.		
	Further information may be found in the ACR Practice Parameters and Technical Standards:		
Indicator iii	Consideration to implementing anti-reflective coating to monitors		
Indicator iv	Primary monitors used exclusively for lower-resolution modalities may employ a lower matrix size, not less than 1 MP for the typical 53-cm display. CD/DR images reviewed on such a monitor will require frequent zooming and panning for optimal assessment.		
Indicator v	The Practice ensures that secondary monitors are only used for reviewing medical images, usually in association with the relevant medical imaging report, and are not used to provide a medical interpretation.		
	Secondary monitors should endeavour to met the following:		
	<ul> <li>Maximum luminescence ≥250 cd/m<sup>2</sup></li> </ul>		
	<ul> <li>Calibration Grayscale Standard Display Function (GSDF) accuracy ≤20%</li> </ul>		
	• Lmin ≥1 cd/m²		
Indicator vi	Ambient lighting: extraneous room light minimised: 20-40 lux recommended		

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Clause	Standard	QM Cross reference	Comments
3.7.1	Digital Image Data Management		
	The practice shall ensure that digital image data is managed appropriately in relation to digital image file format, storage, retention and archiving.		
	The Practice shall ensure that digital images can be readily be made available in a DICOM- compliant format, where one is available for the modality in question.		
	When storing images, the Practice shall use lossless compression where feasible and otherwise shall use compression ratios as recommended in the RANZCR compression guidelines		
	The Practice's digital archiving system shall have the capacity to store a record of each examination for the applicable statutory period. The archiving system shall permit retrieval of the images in a DICOM-compliant format.		
	The Practice shall establish a retention schedule that identifies the studies for which longer-term retention is required. This schedule is reviewed at least annually.		
Indicator i	The Practice has documented policies on digital image compression.		
Indicator ii	The Practice has a statement of archive capacity and of typical storage requirement in Megabytes.		
Indicator iii	The Practice can demonstrate the use of a retention schedule.		
Indicator iv	The digital archiving system shall have the capability and capacity to store radiation dose information for patients.		

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Clause	Standard	QM Cross reference	Comments
3.7.2	Privacy and Information Security		
	The Practice shall maintain the privacy and security of health information it holds, following the legislation in its jurisdiction.		
	Policies regarding emails and social media shall be designed and adopted, to protect patient information and the Practice's reputation.		
Indicator i	The Practice does not store or leave patient information in areas accessible to members of the public.		
Indicator ii	The Practice's clinical software can only be accessed using unique individual passwords, and access is determined according to the person's level of authority.		
Indicator iii	The Practice has policies and procedures for:		
	<ul> <li>Information recovery and business continuity</li> <li>Storage, retention and destruction of patient records</li> <li>The use of email</li> <li>The use of social media</li> <li>Data breach notification</li> <li>Cybersecurity insurance policy.</li> </ul>		
3.7.3	Exchange of Digital Imaging Data and Reports – General Requirements		
3.7.3.1	Exchange Media and File Systems		
Indicator i	When exchanging diagnostic images in a digital format on a portable device, the medium used is either compact disk, compliant with ISO/IEC 10149 (CD-R), or another medium which allows compliance with the IHE-PDI profile.		
Indicator ii	The file system of such media is compliant with ISO 9660:988(E) – level 1.		
Indicator iii	The practice shall be able to provide a complete set of diagnostic quality images, when appropriate to the needs of the patient and/or the referrer.		

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Clause	Standard	QM Cross reference	Comments
3.7.3.2	Malicious Software		
Indicator i	The practice has implemented and documented a protocol whereby a check is carried out to confirm that there is no malicious software on disks which record digital imaging data, or in systems used in the exchange of diagnostic imaging data.		
Indicator ii	For portable media, once this check is carried out successfully and no further data is to be written to the disk, such media are 'closed' to data alteration or addition.		
Indicator iii	Media which are only intended to have data added on one occasion are similarly checked and 'closed' to data alteration or addition.		

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Clause	Standard	QM Cross reference	Comments
3.7.3.3	Exchange of Digital Imaging Data and Reports Using Portable Media : IHE PDI profile		
	The practice has implemented systems that ensure that all portable media issued by the practice are compliant with the IHE PDI profile.		
	The practice ensures that all such media contain a "readme.txt" file which is situated in the root directory, even if web content is not supported.		
	This readme.txt file contains a copy of the generic facility (not patient-specific) information provided on the label and external packaging.		
	This readme.txt file contains information about DICOM viewer software, and information about the requirements for HTML viewers required to read web content.		
	When providing diagnostic imaging data as web content, such content is compliant, and		
	<ul> <li>a default web page (index.htm) is used as a the landing page for end users, and contains the same key information as that used on the media and package;</li> </ul>		
	<ul> <li>b) the web page includes appropriately formatted images (e.g. JPEG) and links to help files and software for accessing DICOM file content if this is provided; and</li> </ul>		
	c) where web content is used to display non-diagnostic images, the fact that these are non-diagnostic is clearly conveyed to the user either in the instructions or by annotation of individual images.		
	If diagnostic imaging reports are included on the portable media, they are:		
	a) DICOM compliant and stored according to the IHE PDI profile; OR		
	b) in the HL7 version 2 or HL7 Clinical Document Architecture formats; OR		
	c) in PDF file format.		
Indicator i	The Practice ensures that portable media issued by the Practice are compliant with the IHE PDI profile		

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Clause	Standard	QM Cross reference	Comments
3.7.3.4	Use of Embedded DICOM Viewer on Portable Media		
	The practice ensures that when a DICOM viewer is provided on such media that such viewers do not auto-load.		
	Instructions for starting the viewer are present on the media label, media folder and readme.txt file, and an online manual is available		
	The viewer and help files are located in and can be loaded from the index.htm page.		
	Where the software does not load (e.g. incorrect operating systems), the viewer will terminate with an intelligible error message.		
	Loading the viewer is not dependent on pre-existing components (e.g. Java, MS components), and these components only load from the disk if they are required		
	Minimum specifications in regard to the computer equipment required to run the DICOM viewer software are included in the information provided on the media label, media folder, readme.txt file, and the online manual. Correspondingly, any limitations of the viewer are declared.		
Indicator i	Presence of the above instructions and information on portable media, or the media container, produced by the Practice.		
3.7.3.5	Electronic Reports		
Indicator i	The Practice ensures the availability of reports from the relevant period, and such reports are readable with the appropriate software		
3.8	Portable Media Requirements		
3.8.1	Media selection		
Indicator i	Media used for long term storage or archive shall be appropriate to the planned period of archive, with appropriate back-up arrangements in place.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	Media used for portable use meets the requirements set out under item 3.7.3.1 Exchange Media and File Systems in these standards.		
3.9	Digital Media Labelling, Packaging and Storage		
3.9.1	Portable Media Labelling		
	The content on the label on the device, on the storage package and represented on the device itself should be consistent.		
	Media used for the exchange of diagnostic imaging data shall have labels printed directly on their surface, where feasible. For smaller-format media, the label shall be included as a file on the device, and shall be printed on the device container.		
Indicator i	The Practice ensures the following information on portable media, (where the size of the media permits).		
	Patient name;		
	<ul> <li>Patient ID (addition of the Australian Individual Health Identifier is encouraged);</li> </ul>		
	Patient date of birth		
	Media creation date		
	Date of examination/s		
	Name of institution creating the media, and contact details		
	• Media type and an identifier in the format 'media type', 'instance number' of 'total number of media in series'.		
	A statement about the sole archive status or retention policy of the radiology service		
	A statement that contents are confidential.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	The Practice ensures the presence of the same information is stored, as an electronic file, on the media.		
3.9.2	Portable Media Storage and Packaging		
Indicator i	The practice ensures that storage of blank (unused) portable media is consistent with the media manufacturer's guidelines.		
Indicator ii	Portable media are consistently stored in packaging which is suitable for transfer to the patient or referring practitioner and that is immediately identifiable as a medical record.		
Indicator iii	Such packaging has suitable internal storage for the portable media to avoid accidental loss.		
Indicator iv	This packaged portable media is stored according to the media manufacturer's guidelines until dispatch.		

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Clause	Standard	QM Cross reference	Comments
3.9.3	External Labelling		
Indicator i	The practice ensures compliance of the following for the storage envelopes and folder produced by the Practice		
	• all media storage envelopes or folders are affixed with a label printed in size 11 or greater font containing the same contents as per the media label specifications expressed under clause 3.9.1.		
	This label is placed under a flap in the event that the package is to be sent by post in order to protect patient privacy		
	The contents of envelope are clearly defined and expressed.		
	The Practice name and contact details are clearly expressed.		
	• Detailed instructions for common operating systems are included on the label with clear instructions on how to load the CD and access the electronic help files or further instructions, OR advice that written instructions for this are contained within the package		
	• The label includes a statement that the contents are confidential medical records, with a clear return address if the package is located.		

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3.10	Online Portals		
	Access to such images via on-line portals shall be restricted to appropriately authorised individuals, who shall be required to authenticate their identity before access is granted.		
	There shall be provision allowing emergency access to such images by medical staff directly involved in the patient's care, with all such access to be logged, recorded and audited.		
	Images may be made available by default in DICOM PS 3.10 format, or rendered in other commonly used formats (e.g. jpeg). The Practice shall be able to transfer images in DICOM format if required, either via the online portal or via portable media.		
	Images transferred to another site online must be transferred with relevant metadata, to ensure that the subject of each image is accurately identified; in practice this requires transfer using the DICOM format		
	Where images are made available for viewing online, without transfer of the image data to the viewing site's archive, the viewing software must ensure that the metadata is transferred with the image data and that both are displayed to the remote viewer		

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3.11	Reporting Environment	
	The reporting environment must be organised to ensure optimal reporting conditions for the medical practitioner.	
	The practice ensures that reporting conditions are confirmed as acceptable for diagnostic image interpretation by each of its medical practitioners providing the reporting services	
	The reporting environment ensures that the reporting environment has	
	<ul> <li>A minimum amount of light reflection on the monitor where interpretation is being made</li> </ul>	
	<ul> <li>Ambient light intensity of 20–40 lux (recommended), although higher levels may be</li> </ul>	
	permissible with bright displays	
	<ul> <li>Displays placed ergonomically at an approximate reading level for each medical practitioner</li> </ul>	
	<ul> <li>Displays placed away from areas that may cause image degradation, such as magnetic fields</li> </ul>	
	and electronic transformers	
	<ul> <li>Adequate control of temperature, humidity, ventilation and acoustic noise.</li> </ul>	
	Ergonomic standards are met as set out in Standard 4.1.5.	
Indicator i	The Practice has a system for monitoring reporting environments	

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3.12.1	Quality Control Testing	
The Practice shall implement, maintain and follow a planned program of QC activity in cooperation with a Medical Physicist, as appropriate. The Practice shall implement protocols and procedures for performing QC activities for each modality, and of the primary and secondary workstations, at defined intervals. These shall include appropriate instructions for remedial action.		
	The Practice shall ensure that measurements and other results of all QC activities are recorded so that trends are detectable.	
	The Practice shall keep records of remedial actions for the operational life of the equipment at the Practice. If stored centrally, these records shall be accessible to the site housing the relevant equipment.	
Indicator i	The Practice has written procedures for QC that are readily accessible to their staff.	
Indicator ii	The Practice maintains records of the results from QC testing performed	

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3.12.2	Quality Control Testing – Diagnostic Workstations and Teleradiology Equipment	
	The Practice must have a QC program in place relevant to the scope of digital imaging and teleradiology services provided.	
Indicator i	The Practice has written procedures for QC of diagnostic workstations and teleradiology equipment, which are readily accessible to their staff.	
	The QC program includes:	
	Test images and clinical reference image availability	
	Service and maintenance records	
	Monitors and image display characteristics in accordance with the visual evaluation techniques as described in standard 3.6.2.2	
	Environmental conditions.	
	The practice ensures that:	
	<ul> <li>Monitor quality assurance testing comprises as a minimum monthly SMPTE test pattern assessment, at which the image quality is assessed against agreed criteria for monitor performance, as set out in standard 3.6.2.2.</li> </ul>	
	Conformance tests of display systems are documented and retained for ongoing quality assurance.	
Indicator ii	The Practice maintains records of the results from QC testing of diagnostic workstations and teleradiology equipment.	

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Clause	Standard	QM Cross reference	Comments
4 PERSON	NEL		
4 Personnel	The practice shall ensure that its personnel arrangements support the delivery of safe, quality diagnostic and/or interventional radiology services.		
4.1.1	Personnel – General		
	All tasks associated with the delivery, supervision, support and management of diagnostic and/or interventional radiology services shall be supervised or carried out by personnel who are qualified to perform such tasks in accordance with these standards.		
Indicator i	The practice maintains personnel records including details of qualifications, professional and/or regulatory registration, licenses and their currency.		
Indicator ii	Current job descriptions are maintained for all positions, which define the responsibilities and authorities of personnel according to their qualifications.		
Indicator iii	The practice has a documented policy describing the deputisation arrangements for key positions.		
Indicator iv	There are procedures in place to ensure that any potential conflict of interest that it or any of its personnel have in relation to the service's activities are identified, reported, recorded and managed.		
Indicator v	The practice ensures that each of its personnel are aware of the practice's policies and procedures in relation to the confidentiality and security of patient personal information and has agreed to abide by the practice's privacy policy and other relevant rules.		
4.1.2	Recruitment of Personnel		
Indicator i	The practice has a process which ensures the systematic recruitment of personnel in a manner appropriate to the size and scope of the service.		
Indicator ii	The process for the recruitment and selection of new personnel is documented.		
Indicator iii	This process ensures that a formal credentialing process is implemented that ensures that personnel selected meet the minimum requirements for the position.		

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Clause	Standard	QM Cross reference	Comments
4.1.3	Orientation The Practice shall have an orientation program that is undertaken by all personnel employed or engaged by the service in the delivery, supervision, support and management of clinical radiology services.		
Indicator i	The practice undertakes orientation activity for new personnel that is appropriate to the scope and responsibility of each position.		
Indicator ii	Such orientation is recorded in personnel records.		
4.1.4	<b>Training</b> The practice shall ensure that its personnel undertake any ongoing training needed to comply with requirements for professional registration and/or licensing.		
Indicator i	The practice maintains permanent records of internal or external training that its personnel undertake to gain or retain competence in the application of systems and equipment used in the practice.		
Indicator ii	It ensures that the personnel involved with the provisions of its digital imaging and/or teleradiology services have undertaken training in the policies and procedures for digital imaging and/or teleradiology, and that such training is recorded in the relevant personnel records.		
Indicator iii	Medical imaging personnel undergo regular performance reviews to support their professional development and quality improvement.		
4.1.5	Ergonomics		
Indicator i	<ul> <li>The Practice has a documented policy on ergonomics that shall include as a minimum:</li> <li>The considered arrangement of seating, desk and monitor, together with ancillary</li> <li>equipment, such as dictation devices and task lighting</li> <li>Lighting, heating, air quality and sound</li> <li>Measures to avoid prolonged computer usage, and ensure operator breaks</li> <li>Minimising adverse static postures through keyboard and pointing device placement.</li> </ul>		

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Clause	Clause Standard		Comments
4.2.1	Qualifications, Registration and Licensing – Clinical Radiologist		
Indicator i	Evidence of current medical registration is held for each clinical radiologist.		
Indicator ii	Each clinical radiologists is appropriately licenced to use ionising radiation equipment		
Indicator iii	Where remote reporting services are provided by the Practice, the Practice holds copies of the current medical board registration documentation and abides by the jurisdictional requirements for radiation licencing of each of its clinical radiologists providing such services.		
Indicator iv	The Practice ensures that each clinical radiologist has completed CPR training according to the Australian Resuscitation Council guidelines on Basic Life Support, and the Practice maintains a register of the CPR training completed for each clinical Radiologist which includes expiry dates.		
Indicator v	Radiologists who perform sedation shall do so in accordance with the ANZCA PS09 Guidelines.		
Indicator vi	Regular assessment of visual function is the personal responsibility of the radiologist.		
4.2.2	Qualifications, Radiographer A radiographer must have any licenses and current professional registration required for the jurisdiction in which he/she is practising, including any radiation operator's licences required for use of ionising radiation.		
Indicator i	The Practice maintains a register of, and holds copies of, current AHPRA, MRPBA or MRTB Medical Radiation Practitioner registration records for each of its radiographers.		
Indicator ii	Radiographers providing services requiring the use of ionising radiation must have a current radiation licence, which is recorded by the radiation safety officer in a radiographer radiation licence register.		
Indicator iii	Radiographers have completed CPR training according to the Australian Resuscitation Council guidelines on Basic Life Support and the Practice maintains a register of completed CPR training (includes expiry dates) for Radiographers		

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Clause	Standard	QM Cross reference	Comments
4.2.3	Qualifications Sonographer		
Indicator i	The Practice maintains a register of, and holds a copy of, current ASAR for each of its sonographers.		
Indicator ii	The Practice should ensure current registration is in line with the scope of practice (i.e. a registered vascular sonographer is not performing obstetric imaging examinations)		
Indicator iii	Sonographers have completed CPR training according to the Australian Resuscitation Council guidelines on Basic Life Support and the Practice maintains a register of completed CPR is maintained which includes expiry dates for all sonographers		
4.2.4	Qualifications- Medical Physicist		
Indicator i	The Practice ensures that its diagnostic imaging medical physicists are registered on the ACPSEM Register of Qualified Medical Physics Specialists in the Radiology Medical Physics Specialty.		
4.2.5	Qualifications- Nurse Nursing personnel working within the Practice must have current professional registration for the jurisdiction/s in which they are working.		
Indicator i	The practice holds a copy of the current registration record for each of its nurses.		
Indicator ii	Nurses have completed CPR training according to the Australian Resuscitation Council guidelines on Basic Life Support and the Practice maintains a register of completed CPR is maintained which includes expiry dates for all nurses.		
	<b>Qualifications– Service Personnel</b> The practice shall ensure that all personnel servicing its systems and equipment are suitably qualified.		
Indicator i	The Practice has a procedure for obtaining information from the service provider/s that service personnel are appropriately qualified and/or certified for the scope of service activity carried out.		

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Clause	Standard	QM Cross reference	Comments
4.2.7	Qualifications – Administrative Staff		
Indicator i	The practice holds administrative staff personnel record/s, including training records which are appropriate to the size and scope of the Practice.		
4.2.8	Qualifications - Radiation Safety Officer		
Indicator i	The Practice holds radiation safety officers personnel records, including records of training and the appropriate radiation safety legislation for the Practice's jurisdiction.		
Indicator ii	The Practice has implemented a policy that its personnel and the Radiation Safety Officer complete tasks against the relevant Radiation Safety Act for it's state		
4.3.1	CPD		
Indicator i	There is a policy to encourage and support participation by staff in CPD activities.		
Indicator ii	A register (or able to access the records) of staff CPD training.		
4.3.2	CPD – Clinical Radiologists		
Indicator i	Radiologists to provide facility evidence of ongoing participation in the RANZCR CPD program (or equivalent).		
4.3.3	CPD – Radiographers		
Indicator i	Radiographers to provide facility evidence of ongoing participation in either the ASMIRT's CPD program, or an equivalent program of CPD.		
4.3.4	CPD – Sonographers		
Indicator i	The Practice ensures that each of its sonographers is registered and actively participates in CPD to maintain clinical currency and registration (Sonographers practising in Australia shall maintain registration with ASAR including an approved CPD program (e.g. ASAR, ASUM, ASMIRT or ASA).		

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Clause	Standard	QM Cross reference	Comments
4.3.5	CPD- Medical Physicists		
Indicator i	Medical physicists to provided facility with evidence of ongoing CPD participation that complies with the ACPSEM CPD requirement, or the CPD audit.		
4.3.6	CPD – Nurses		
Indicator i	Nurses to provide a facility with a copy of their current NMBA CPD declaration.		

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Clause	Standard	QM Cross reference	Comments
5 PROFE	SSIONAL SUPERVISION		
5.1	<b>General Professional Supervision</b> Each component of a diagnostic imaging service shall be carried out under the professional supervision of a clinical radiologist in accordance with jurisdictional requirements. <i>The performance of diagnostic imaging services carried out under the leadership of a clinical radiologist is definaed as professional supervision.</i>		
Indicator i	<ul> <li>The practice has protocols in place to ensure that the radiologist's professional supervision requirements are satisfied through either:</li> <li>a) personally conducting all or particular tasks associated with the relevant component of the imaging service; OR</li> <li>b) direct (face-to-face) supervision of the other members of the imaging team as the relevant component of the imaging service is undertaken; OR</li> <li>c) task delegation through the implementation of and adherence to appropriate written protocols to be followed by members of the imaging team, under the radiologist's direction.</li> </ul>		
Indicator ii	Protocols also provide for different triggers for seeking radiologist input, and are consistent with patient management policies and procedures (as per 7.1).		
Indicator iii	The practice ensures that when teleradiology or remote reporting services are provided in accordance with appropriate written protocols under the direction of its radiologist/s, the professional supervision protocols are clearly written, readily available and implemented at the site at which the examination takes place as well as at the reporting site.(refer to Standard 8)		
5.2	Professional Competence		
Indicator i	All personnel involved in a medical imaging examination are appropriately qualified and experienced according to the specific requirements of the examination.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	Where personnel are not considered to be sufficiently experienced, the Practice's		
	professional supervision arrangements ensure that appropriate supervision		
	protocols are in place to support the personnel, and ensure the safety and quality		
	of the patient's examination.		
5.2.1	Trainee Clinical Radiologist		
Indicator i	Rosters ensure that all trainee radiologists have a qualified radiologist (as per		
	4.2.1) available to provide direct (face-to-face) supervision		
Indicator ii	An after hour's roster is available for access to a qualified radiologist to provide		
	advice and backup at all times out of hours.		
5.2.2	Trainee Radiographers		
Indicator i	Practice rosters for the past twelve months (including out of hours arrangements)		
	demonstrate that :		
	Undergraduate trainee (student) radiographers are directly supervised by a		
	qualified radiographer.		
	Graduate radiographers undertaking their PDY program have on site		
	supervision by a qualified radiographer.		
Indicator ii	Supervision arrangements and rosters for graduate radiographers undertaking the		
	Supervised Practice Program must be consistent with the MRPBA requirements or		
	MRTB guidelines.		
5.2.3	Trainee Sonographers		
	All trainee sonographers should be registered with ASAR.		
Indicator i	The Practice holds rosters for the past 12 months demonstrating that:		
	a) trainee sonographers are directly supervised; and		
	b) course requirements, such as logbooks, include supervisor acknowledgement		
	and indicate supervision provided for patient examinations.		
Indicator ii	The Practice has documented evidence of the level of competence for each		
	trainee sonographer, as agreed by the supervising sonographer.		
5.2.4	Trainee Medical Physicist		
Indicator i	Where trainee medical physicists are involved in the delivery of imaging services,		
	they only do so under the supervision of an ACPSEM registered medical physicist.		

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Clause	Standard	QM Cross reference	Comments
5.2.5	Trainee Medical Imaging Nurse		
Indicator i	Trainee Medical Imaging Nurses involved in the delivery of imaging services, are		
	supervised by a senior nurse or a doctor.		
5.3	Review of Appropriateness of Request and Patient Preparation		
5.3.1	Requests		
	<ul> <li>A diagnostic imaging procedure may be undertaken upon receipt of a clinically appropriate request made by a medical practitioner.</li> <li>A request for a diagnostic imaging procedure made by a health practitioner shall be undertaken providing: <ul> <li>the health practitioner is registered and/or licensed under relevant state or territory laws;</li> <li>the requested imaging procedure is;</li> <li>directly related to the health practitioner's recognised field of expertise</li> </ul> </li> </ul>		
	<ul> <li>within the scope of practice.</li> <li>A request may be accepted when it is in a format whereby sufficient clinical information is provided to allow the clinical appropriateness of the requested procedure to be determined.</li> </ul>		
Indicator i	<ul> <li>The practice ensures that the following information is provided in requests prior to an imaging examination being undertaken:</li> <li>Patient name, date of birth</li> <li>Study requested</li> <li>Clinical indication for the examination</li> <li>Date of request</li> <li>Signature, electronic signature or another mechanism for requesting health professional authentication and their contact details</li> <li>Requestor's Health Provider Number or Health Provider Index</li> </ul>		
Indicator ii	Consultation with the patient to clarify information provided in the request is carried out as necessary and in accordance with professional supervision protocols.		
Indicator iii	The practice has implemented a process by which, when a request is made, the referrer and the practice have agreed on the format in which the images resulting from the examination need to be provided in order to be clinically useful, and that the practice has confirmed it is able to provide the images in this format.		

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5.3.2	Review of the Request		
Indicator i	Documented procedures for reviewing requests which ensure that the requested		
	examination is appropriate to the needs of the referrer and the patient.		
Indicator ii	Protocols are in place to provide for different triggers for seeking radiologist input		
	for the review of requests by delegated medical imaging team members.		
Indicator iii	The practice ensures that the radiologist is readily contactable to discuss and, if		
	necessary, alter the conduct of the imaging examination.		
Indicator iv	Information is recorded relevant to the study/ies being performed on each patient		
	and is obtained by the medical imaging team prior to the examination. Depending		
	on the examination, this information may include the presence of any allergies,		
	pregnancy status and previous studies.		
Indicator v	When a request contains insufficient information to determine the appropriateness		
	of the request, the practice has documented procedures which ensure that all		
	reasonable attempts are made to obtain the required information as necessary		
	from the referring practitioner, and/or consultation with the patient to clarify		
	information provided in the request is carried out as necessary.		
Indicator vi	When patients are undergoing special examinations such as MRI, angiography,		
	prostate biopsy and examinations requiring the use of contrast, additional specific		
	information is obtained and recorded.		
Indicator vii	Practice protocols ensure that prior to an examination being performed, the patient		
	has been informed of the examination to be performed, the associated risks		
	(where applicable, e.g. contrast), and has provided an appropriate form of consent		
	commensurate to these risks.		
Indicator viii	When reviewing requests and preparing for imaging of paediatric patients, every		
	effort is made to:		
	a) use a non-ionizing radiation modality, providing it will obtain the required		
	imaging data for diagnosis; and		
	b) make minimal use of sedation and anaesthesia		
5.3.3	Substituted and Additional Procedures		
Indicator i	Practice records show that when an additional or substituted examination is called		
	for the imaging report is notated accordingly.		
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Clause	Standard	QM Cross reference	Comments
Indicator ii	These records demonstrate that all reasonable efforts are made to contact the		
	requesting practitioner, and actual communication that is made is recorded.		
Indicator iii	The records show that before proceeding with a substituted or additional		
	examination the patient is informed of the change of service and has provided		
	consent in a format commensurate with the risks associated with the examination		
	being performed.		
5.3.4	Patient Preparation		
Indicator i	Information on pre-examination preparation is made available to patients and		
	referrers.		
Indicator ii	Procedures to confirm correct patient preparation has been completed which		
	includes include provision for patients who are inappropriately prepared.		
Indicator iii	Where such preparation relates to contrast administration, this conforms to the		
	requirements of the RANZCR Guidelines for Iodinated Contrast Administration.		
Indicator iv	Where such preparation relates to sedation, this conforms to the requirements of		
	the ANZCA PS09 Guidelines.		
5.3.5	Appropriate Use of Medical Imaging		
Indicator i	The practice has representative information sheets and/or documentation of		
	communication to referrers and consumers.		
5.4.1	Performance of the Imaging Examination		
Indicator i	Documented protocols for the performance of imaging examinations, and these		
	protocols are developed under the professional supervision of the radiologist.		
Indicator ii	Protocols include when not to proceed with an examination if the radiologist is not		
	available.		
Indicator iii	Examinations which require sedation of the patient are not undertaken unless an		
	appropriately trained radiologist is available to immediately personally attend the		
	patient and the safety requirements under 6.6.1 & 6.6.3 are met.		
Indicator iv	The protocols cover radiographic factors, positioning, sterile tray set-up, and after		
	care according to the relevant examinations and/or modalities performed at the		
	service.		
Indicator v	These protocols also address medical emergencies.		

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Clause	Standard	QM Cross reference	Comments
Indicator vi	Imaging protocols for paediatric patients are optimised to obtain the required imaging data while delivering the lowest radiation dose possible and with minimal use of sedation and anaesthesia.		
5.4.2	Performance of the Imaging Examination – Administration of Contrast		
Indicator i	Protocols for the administration of contrast which screen all patients for history of relevant contrast allergy, current medications, risk factors that increase the likelihood of contrast-induced renal impairment, and medical conditions that may result in life threatening complications from contrast administration.		
Indicator ii	These protocols determine when the radiologist responsible for overseeing the study must be contacted for advice before contrast is administered.		
Indicator iii	The task of administering contrast is only delegated to personnel who are trained in venepuncture consistent with Appendix A Personnel Administering Intravenous Contrast.		
Indicator iv	The protocols determine the dose and type of contrast medium that is administered, by whom it is administered, and under whose authorisation.		
Indicator v	The administration of contrast to a patient is recorded, including the batch number of the contrast administered.		
Indicator vi	These protocols ensure that a registered medical practitioner must be on site, and immediately available to personally attend and treat the patient in case of a complication of intravenous contrast administration or other medical emergencies.		
5.5.1	Interpretation and Reporting the Results A single named clinical radiologist is to be responsible for the supervision, interpretation and reporting of the entire study. Where substantial input regarding supervision, interpretation or reporting has been provided by additional clinical radiologists or suitably qualified medical practitioners, this should be also be acknowledged in the report. A single named radiologist however, remains responsible for the entire study. Where a trainee clinical radiologist has reported under supervision, this should be indicated in the report. Reports must address all information requested by the referrer, required by the procedure and necessary for the interpretation of the results		

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Clause	Standard	QM Cross reference	Comments
Indicator i	Primary diagnosis is only performed on images which are of acceptable diagnostic		
	quality to the reporting radiologist.		
Indicator ii	<ul> <li>The imaging reports include at least the following:</li> <li>A title</li> </ul>		
	<ul> <li>Name and address of the practice, and location/site where the imaging procedure(s) was performed if different to the address on the report</li> </ul>		
	Referrer's name		
	<ul> <li>Date of issue of the report</li> <li>Unique identification of the patient</li> </ul>		
	<ul> <li>Date of imaging procedure(s)</li> <li>Identification of the modality used</li> </ul>		
	Identification of the modality used		
	<ul> <li>Imaging procedure(s) results and, where appropriate, the units of measurement</li> </ul>		
	<ul> <li>Record/s of the administration of any medication and/or contrast</li> </ul>		
	Opinions and interpretations		
Indicator iii	Name of reporting radiologist. The use of electronic signatures complies with relevant legislation.		
Indicator in	If a report is issued jointly, the co-signatory radiologists have all approved its final		
	content.		
Indicator v	The Practice ensures that where an amendment or addendum to a report is made,		
	this must be identified on the report, and clearly distinguished from the original		
Indicator vi	report. Authorship, time and date of the addendum should be clearly stated. If preliminary reports are prepared, the practice has a process for reconciling any		
	differences between preliminary and final reports and for ensuring that this is		
	communicated to the referrer.		
Indicator vii	The Practice ensures that when a sonographer is involved in performing an		
	ultrasound examination, the sonographer's initial and surname is included in the		
	record of the examination held by the Practice.		
Indicator viii	Policy for the provision of verbal and written reports to referring medical		
	practitioners.		
Indicator ix	Comparison with prior studies is included in reports where these prior studies are		
	available and relevant.		

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Clause	Standard	QM Cross reference	Comments
5.5.2	Communication of Imaging Findings and Reports		
	The Practice shall ensure that reports are made available in a clinically		
	appropriate, timely manner, and shall carry out regular reviews at least once a		
	year on the time between the performance of the study and the issuing of the		
	report.		
Indicator i	Documented policy for communication of clinically urgent or critical test results.		
	It should include at least the following:		
	General findings that should be communicated		
	How the communication should be documented		
	A record of the person communicated to		
	A record of what was communicated		
Indicator ii	The practice maintains records of regular reviews of reporting turnaround times,		
	and implements and records corrective action should there be any indications that		
	the designated reporting times are not being met.		
Indicator iii	If there are urgent and significant unexpected findings, there is a protocol which ensures that		
	a) the reporting radiologist uses all reasonable endeavours to communicate		
	directly with the referrer or an appropriate representative who will be providing clinical follow-up;		
	b) a record of actual or attempted direct communication is maintained by the practice; and		
	c) the reporting radiologist co-ordinates appropriate care for the patient if they		
	are unable to communicate such findings to the referring clinician.		
5.5.3	Consultation with Referrers		
Indicator i	Policy for consultation with referrers, including the provision of information to		
	referrers regarding imaging strategies which are appropriate for particular clinical		
	problems.		
Indicator ii	This consultation includes advice on the current transition from film-based to		
	digital image transfer with advice on the advantages of digital techniques and		
	requirements for appropriate viewing equipment.		

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Clause	Standard	QM Cross reference	Comments
5.6	Image Review The Practice develops and implements a fit for purpose and radiologist-led peer review process to regularly monitor the interpretation of imaging studies.		
Indicator i	Where these are not required elsewhere in these standards, the practice participates in or is working towards a peer-based image review for each modality that it provides.		
Indicator ii	Unless specified differently elsewhere in these standards, such reviews are carried out at least annually.		

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Clause	Standard	QM Cross reference	Comments
6 SAFETY			
6 Safety	The practice shall conduct all diagnostic and/or interventional radiology examinations in a manner which ensures the safety of patients, personnel and the environment. As a minimum all applicable regulatory requirements shall be met.		
6.1	Safety of the Practice Environment The practice shall monitor accommodation and environmental conditions as required by the relevant imaging specifications (including regulatory requirements) and where they influence the quality and safety of medical imaging services.		
Indicator i	Where equipment is found to be defective, it is taken out of service, clearly labelled and not returned to service until it has been repaired and shown by calibration and/or checks to meet relevant acceptance criteria.		
6.2	Infection Control – General All applicable regulatory health-related infection control guidelines shall be followed.		
Indicator i	Documents all policies and procedures for all infection control issues, including sterilisation/disinfection and hand hygiene.		
Indicator ii	These policies and procedures comply with the applicable regulatory standards, DIAS Standard, the NHMRC Australian Infection Control Guidelines and the Australian Immunisation Handbook.		
6.3.1	Radiation Safety - ALARA Principle		
Indicator i	The practice can demonstrate through its radiation safety policies, procedures, and imaging protocols that it applies the ALARA principle to each radiological procedure that is performed.		
Indicator ii	The practice records patient doses and aggregates these annually in order to establish Facility Reference Levels (FRLs).		
Indicator iii	These FRLs are reviewed annually to determine the need for dose optimisation activity.		
Indicator iv	FRLs are also reviewed against national DRLs where these are published.		
6.3.2	Compliance with Radiation Safety Legislation		
Indicator i	The Practice retains all records required under relevant radiation safety legislation and under the directions of relevant regulatory authorities or advisory bodies.		
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Clause	Standard	QM Cross reference	Comments
Indicator ii	It retains records of any corrective action notices issued by radiation safety		
	regulatory bodies, and the corrective action taken.		
Indicator iii	It retains records of any corrective action the service itself deems necessary to		
	comply with the requirements of relevant radiation safety legislation and the		
	corrective action taken.		
6.3.3	Radiation Safety Officer		
Indicator i	The Practice has appointed a radiation safety officer who maintains the requisite skills to fulfil the position criteria contained in the radiation safety officer job		
	description.		
Indicator ii	The radiation safety officer monitors changes in the legislation, adjusts policies		
	and activities accordingly and communicates these to practice personnel.		
Indicator iii	The radiation safety officer co-ordinates record keeping in relation to radiation		
	safety at the practice.		
6.4	Waste Management		
Indicator i	The practice has implemented procedures addressing the storage and disposal of		
	contaminated/medical waste and the use of laundry and linen services, which		
	comply with the relevant statutory requirements.		
6.5	Use of Contrast Media		
Indicator i	The practice has implemented a procedure for the use of contrast media which		
	ensures that the service complies with the current versions of the RANZCR		
la dia ata n ii	contrast guidelines.		
Indicator ii	It has a policy which ensures appropriate storage and use of contrast media in		
	accordance with National Recommendations for User-applied Labelling of Injectable Medicines, Fluids and Lines.		
Indicator iii	It has designated personnel who hold current CPR certification and are trained in		
	the appropriate management of contrast reaction and the use of resuscitation		
	equipment to support the management of adverse reactions to contrast.		
Indicator iv	It has a clearly identified staff member who ensures that resuscitation equipment		
	and drugs etc. are present and in a state of readiness.		
	מות שועשה בנט. מוב אובהבווג מות ווו מ הנמוב טו ובמטווופהה.		

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Clause	Standard	QM Cross reference	Comments
Indicator v	<ul> <li>It maintains a documented plan of management for likely adverse events due to contrast reactions, which includes as a minimum:</li> <li>a) a prominently displayed documented procedure describing the management of reactions, and reference to 'Emergency management of anaphylaxis in the community'</li> <li>b) identification of personnel responsible for managing the treatment of contrast reactions;</li> <li>c) a protocol for transfer of a patient to an acute care facility if required, and</li> <li>d) the plan of management should be tested by the appropriate staff on an annual basis.</li> </ul>		
6.6.1	Use of Sedation		
Indicator i	Policies and procedures which ensure the safe management and use of sedation. The policies and procedures identify personnel who are adequately trained and authorised to select patients for sedation, administer sedation to and manage sedated patients.		
Indicator ii	These policies and procedures are consistent with the ANZCA PS09 Guideline.		
Indicator iii	It records drugs used for sedation, the person administering the drugs and the management of sedated patients.		
6.6.2	Use of Anaesthesia		
Indicator i	The practice has implemented policies and procedures which ensure its management of the use of anaesthesia is consistent with ANZCA PS55 Policy and ANZCA PS09 Guideline.		
Indicator ii	It ensures that personnel administering general anaesthesia are trained anaesthetists with assistance as defined in ANZCA PS55 and ANZCA PS09 Guideline.		
6.6.3	Use of Medications		
Indicator i	The practice has implemented a medications management process that identifies patients at risk from adverse reactions and ensures that only appropriately qualified and authorised personnel administer medications.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	It has designated personnel who hold current CPR certification and are trained in		
	the appropriate management of adverse reactions to medication and the use of		
	resuscitation equipment to support the management of these.		
Indicator iii	It has a clearly identified staff member who is designated as the resuscitation		
	officer to ensure that resuscitation equipment and drugs are present and in a state		
	of readiness in the case of an adverse reaction to medication.		
Indicator iv	Medications are clearly labelled in accordance with the National		
	Recommendations for User-applied Labelling of Injectable Medicines, Fluids and		
	Lines.		
Indicator v	The practice medications inventory demonstrates that all medications are stored		
	and disposed of according to manufacturer's guidelines.		
Indicator vi	The Practice has a documented process of auditing expiry dates of unused		
	medication and disposal of expired stock		

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Clause	Standard		Comments
7 PATIEN	TMANAGEMENT		
7	Patient Management		
7.1	General		
Indicator i	Patient Management policies and procedures which include patient transportation, reception, patient comfort, patient preparation, falls prevention, privacy, clinical handover and post-procedure observation and discharge; these policies and procedures are consistent with the current Australian Charter of Healthcare Rights.		
Indicator ii	These policies and procedures address the early identification and management of patients at increased risk of being, or who are seriously or critically ill.		
Indicator iii	These patient management policies and procedures provide for patients those examinations involve teleradiology.		
7.2	Patient Identification and Records		
Indicator i	Patient identification system that uniquely identifies every patient by three approved patient identifiers		
Indicator ii	It ensures the correct patient identification is maintained on all records, including reports.		

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Clause	Standard	QM Cross reference	Comments
Indicator iii	<ul> <li>The practice has implemented a system whereby it can ensure that:</li> <li>Diagnostic quality images are recorded of all examinations performed with digital techniques as per item 3.7.1, and form part of the patient record</li> <li>Where images are not stored on films or portable media held by the patient, digital or film images of diagnostic quality are retained for the applicable statutory period, whichever is the longer, and shall be available to the referring practitioner (or related clinician managing the patient's care, where appropriate) consistent with the requirements stated under Standard 3.9.</li> <li>Practices should have regard to the statutory limitation periods for negligence actions in the relevant jurisdiction, and should consider this in relation to the storage of patient records.</li> <li>The practice has implemented protocols that identify which studies require an extension to this retention period, and ensure that this occurs.</li> </ul>		
Indicator iv	Examination records include patient identification, the date and, where necessary, time of the study and the practice name imprinted on them.		
Indicator v	The identity of the person who performed the study is recorded and stored in accordance with jurisdictional requirements for medical records. This may be on the worksheet, request form or RIS		
Indicator vi	When images are provided with a report, a record is made of the method of transfer (portable media, film, electronic transmission or other) and of the person to whom the images were provided (i.e. patient or referrer).		
7.3	Cultural Competency		
Indicator i	Policy encompassing cultural safety.		
Indicator ii	The Practice should provide appropriate education and/or training for all staff to deliver care that aids patients to feel culturally safe.		
Indicator iii	The Practice should make available resources that are culturally appropriate and tailored for the health literacy of patients.		
7.4	Correct Patient, Site and Procedure		
Indicator i	The practice has implemented a 'time out' protocol to confirm that the correct procedure is being performed on the correct site of the correct patient, and that this process is documented in the patient's record.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	This protocol ensures that and discrepancy in patient identification, site, and/or		
	procedure prompts corrective action before the imaging procedure in undertaken,		
	and that this is documented in the patient's record. Any required consent forms		
	are signed and documented		
Indicator iii	This protocol is consistent with the Australian Commission on Safety and Quality		
	in Health Care's protocols and the Health Quality and Safety Commission.		
7.5	Discharge Procedure (sedated/anaesthetised patients)		
Indicator i	Procedure which ensures that patients who have been sedated or placed under		
	anaesthetic are discharged in the care of a responsible adult after appropriate		
	recovery.		
Indicator ii	All patients are provided with clear instructions concerning driving, the operation of		
	equipment, making important decisions relating to legal issues and finances or other anticipated side-effects.		
	For nuclear medicine procedures, this will include information about protecting		
	others from exposure to ionising radiation.		
7.6	Patient Consent		
Indicator i	The practice provides comprehensive information to patients on the imaging		
	procedure to be performed prior to it being undertaken.		
Indicator ii	<ul> <li>The information includes:</li> <li>Pre-treatment preparation and/or instructions</li> <li>Post-treatment and/or discharge instructions</li> <li>Fee information</li> <li>Risks</li> <li>Involvement of students/trainees</li> <li>The role of the person performing each stage of the examination.</li> </ul>		
Indicator iii	The practice meets or is developing capacity to meet the communication needs of		
	non-English speaking patients in providing such information.		
Indicator iv	Maintains records of patient consent in the patient's record and the information		
	provided during consent. Practices are encouraged to provide standardised		
	information for frequently performed procedures.		

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Clause	Standard	QM Cross reference	Comments
7.7.1	Privacy Policy		
Indicator i	<ul> <li>The practice has implemented a privacy policy which:</li> <li>a) governs the use of patient personal information within the service and its disclosure to other parties;</li> <li>b) addresses the 13 Australian Privacy Principles (APPs) set out in Schedule 1 of the Privacy Amendment (Enhancing Privacy Protection) Act 2012</li> <li>c) Complies with other laws and any applicable codes of practice governing personal privacy, confidentiality of clinical information and data protection in the relevant jurisdiction;</li> <li>d) is publicly available; and</li> <li>e) allows the patient to access their clinical records.</li> </ul>		
Indicator ii	The Practice documents any variation (where and why) from the Privacy Act.		
Indicator iii	The Practice should have processes in place for a mandatory data breach notification plan		
7.7.2	Patient Consent to Use of Information		
Indicator i	Procedure for gaining patients' consent to the use of their personal information.		
Indicator ii	The method by which consent is sought is consistent with the practice's privacy		
	policy, and sets out in plain language the proposed uses of personal information		
	(which includes images, reports and requests).		
7.7.3	Patient Consent to be Recorded in Information Systems		
Indicator i	The practice has implemented, or is working towards implementation of a process for recording patients' consent in the service's information system.		
Indicator ii	This information system is or will be capable of flagging any personal information that is subject to restricted consent.		
7.8	Open Disclosure		
Indicator i	The practice operates an open disclosure program which is consistent with the Australian National Open Disclosure Framework.		

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Clause	Standard	Comments			
8 TELERA	DIOLOGY				
8.1.1.1	Loss of on-site Informal communication				
Indicator i	The Teleradiology Service Provider should show evidence of records of communication with the referrer, either through RIS or a statement in the report.				
8.1.2	Methods of Data transfer				
Indicator i	The Acquisition Site ensures that data transferred for off-site reporting is the same as that available for on-site reporting, and the data must not be modified in such a way that the remote reporting site is unable to manipulate the images or post- process the images to the same extent as achieved by the on-site systems. This should also apply to the use of any third party post- processing software required by the referral request				
Indicator ii	The Acquisition Site ensures that data transferred for off-site reporting includes access to prior relevant imaging, the corresponding request forms and reports.				
8.2.1	Qualifications and Registration - Clinical Radiologists				
Indicator i	The Teleradiology Service Provider holds a copy of current medical registration for each clinical radiologist reporting for the Acquisition Site.				
Indicator ii	The Acquisition Site holds a copy of the current medical registrations for all clinical radiologists reporting for the Acquisition Site				
Indicator iii	The Teleradiology Service Provider holds a copy of medical indemnity insurance for each clinical radiologist reporting for the Acquisition Site				
Indicator iv	The Acquisition Site holds a copy of medical indemnity insurance for all clinical radiologists reporting for the Acquisition Site.				
8.3.1	Responsibilities of the Specialist				
Indicator i	The Teleradiology Service Provider ensures that when teleradiology or remote reporting services are provided in accordance with appropriate written protocols under the direction of its clinical radiologist(s), the protocols are clearly written, approved, readily available and implemented at the site at which the examination takes place, as well as the reporting site (refer to Standard 5.1, Indicator iii).				
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Clause	Standard	QM Cross reference	Comments
Indicator ii	The service agreement between the Acquisition Site and Teleradiology Service Provider provides a clear framework for clinical support for all components of the diagnostic imaging and reporting process.		
8.3.2	<ul> <li>Interpretation and Reporting         The teleradiology reporting service must comply with these Standards, including:         <ul> <li>Standard 5.5.1 Interpretation and Reporting the Results, noting that there is a separation between the 'Practice' (Acquisition Site) and reporting site, and the 'single clinical radiologist' requirement may not be met.</li> <li>Standard 5.5.2 Communication of Imaging Findings and Reports (indicator iii)</li> </ul> </li> </ul>		
Indicator i	The Practice ensures that protocols for transmission of imaging data are available at the transmitting and receiving sites appropriate to the scope of examinations being performed.		
Indicator ii	<ul> <li>These protocols are specific to each examination type being performed, and include references to the following:</li> <li>The examination</li> <li>Acquisition method including resolution</li> <li>Compression type and level for each examination</li> <li>Image orientation</li> <li>Image sequence selection</li> <li>Urgency of examination</li> <li>Transmission time</li> <li>The number of images in the series</li> <li>The personnel responsible for the examination at the examination capture site.</li> </ul>		

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Clause	Standard	QM Cross reference	Comments
Indicator iii	<ul> <li>Patient data is identifiable and contains the following information:</li> <li>Full name</li> <li>Unique identifier</li> <li>Date and time of examination</li> <li>Diagnostic imaging service name</li> <li>Type of examination</li> <li>Compression type and level</li> <li>Patient notes (including the request for the patient's examination, which is transmitted either by facsimile or electronically)</li> <li>Annotations including side markers</li> </ul>		
8.3.3	<b>Responsibilities of the Allied Health Professionals and Nursing Staff</b> Allied health professionals and nursing staff should consult with the supervising clinical radiologist, whether on site or remote, if the circumstances fall outside of normal protocol or there are any clinical concerns.		
8.3.4	Responsibilities of the Acquisition Site		
Indicators i	<ul> <li>The Acquisition Site has documented and readily accessible protocols stating responsibilities of</li> <li>Remote reporting radiologist, as agreed with the Acquisition Site (with input from on-site clinical radiologist where available) and with the Teleradiology Service Provider;</li> <li>The Teleradiology Service Provider as an entity; and</li> <li>The on-site allied health professional and nursing staff are in place, and protocols are followed appropriately.</li> </ul>		
Indicator ii	The Acquisition Site holds evidence of an agreement between the Acquisition Site and the remote reporting radiologist or the Teleradiology Service Provider.		
8.3.5	Appropriateness There must be a clear statement between the Acquisition site and any Teleradiology Service Provider as to who has delegated authority for monitoring the appropriateness of requests.		
Indicator i	The Acquisition Site has a record of delegated authority.		
Indicator ii	The Acquisition Site has documented and readily accessible protocols.		

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Clause	Standard	QM Cross reference	Comments
8.3.6	<b>Use of Contrast</b> The use of contrast outside of on-site protocols shall be approved by an on-site clinical radiologist or appropriately credentailled specialists, or in their absence, by the reporting clinician as per Standard 4.1.1.		
Indicator i	The Acquisition Site has a documented protocol on contrast usage.		
8.4.1	<b>Reporting Environment - Specific</b> As with on-site radiology, Teleradiology Service Providers must meet the same requirements for reporting equipment as per Standard 3 (Equipment).		
Indicator i	Refer to Standard 3 (Equipment).		
8.4.2	<b>Reporting - Mammography</b> As with on-site clinical radiology, Teleradiology Service Providers must meet the same requirements for equipment as per Standard 15.2.1 (Diagnostic Mammography Equipment).		
Indicator i	Refer to Standard 15.2.1 (Diagnostic Mammography Equipment).		
8.4.3	<b>Reporting - Fluoroscopy</b> At present, the standard for fluoroscopy is to have a clinical radiologist on site when performing the examination. There may be exceptions when fluoroscopic images can be transmitted for interpretation via teleradiology.		
Indicator i	The Acquisition Site must have a list of limited procedures that can be performed without a clinical radiologist on site.		
Indicator ii	The Acquisition Site must have documented protocols to determine what images should be taken for any limited procedures that can be performed without a clinical radiologist on site.		
8.4.4	Reporting - Ultrasound		
Indicator i	The Acquisition Site must have documented policies in the use of teleradiology for ultrasound reporting.		
Indicator ii	The Acquisition Site must have a protocol stating the roles of and limitations upon the sonographer in such a service, in particular on actions to be taken with serious and unexpected findings arising from the ultrasound study.		
Indicator iii	The equipment should have the ability to save cine loops, and if not, allow some way of real-time review by the reporting radiologist.		
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Clause	Standard	QM Cross reference	Comments
8.4.5	Compression		
Indicator i	When storing and transmitting digital images, the Acquisition Site uses lossless compression.		
8.4.6	Display Capabilities		
Indicator i	Refer to Standard 3.6.2 (Diagnostic Workstations).		
Indicator ii	Refer to Standard 3.6.2.1 (Display Software).		
Indicator iii	Refer to Standard 3.6.2.2 (Monitors)		
8.4.7	Patient Information		
Indicator i	Refer to Standard 7.2 (Patient Identification and Records).		
8.5.1	Environment		
	Refer to Standard 3.11 (Reporting Environment).		
8.5.2	Image Management		
Indicator i	All systems must include a mechanism to ensure that all transmitted information from the Acquisition Site is received without corruption, complete and without data loss by the Teleradiology Service Provider.		
Indicator ii	The Acquisition Site must provide a system to obtain any relevant prior examinations and reports, and make them available to the reporting radiologist at the time of reporting		
Indicator iii	The Acquisition Site and the Teleradiology Service Provider must provide evidence of system redundancy, backup communication links and a disaster recovery plan.		
Indicator iv	The Acquisition Site and the Teleradiology Service Provider have documented protocols stating the actions to be carried out in the event of failure of any component of the service that would affect patient care.		

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Clause	Standard	QM Cross reference	Comments
8.5.3	Communication and File Sharing When files are transmitted from the Acquisition Site, individual patient data should include: a. patient name and date of birth; b. date and time of radiological examination; c. location of origin of examination; d. type of examination; e. brief clinical history ; f. details of responsible clinician; g. number of images acquired; h. identification of technologist acquiring images; i. the intended destination of transmitted images; and j. time of transmission		
Indicator i	The Acquisition Site must retain logs of images transmitted.		
8.5.4	.Archiving and Retrieval Storage, archiving and retrieval of images, request and report are the responsibility of the persons or entities responsible for operating both the Acquisition Site and Reporting site, to the extent required by local legislation, regulation and any other requirements, including medico-legal obligations.		
Indicator i	Refer to Standard 3.7 (Digital Imaging Data).		
8.5.5	<b>Storage of Records</b> The persons or entities responsible for operating the Acquisition Site and the Reporting Site are both responsible for ensuring the security and storage of images in accordance with all applicable laws. If a site is not required to store images by law, it must still store images relating to reported cases sufficient to provide the ability to review, to audit and to provide prompt consultation when required.		
Indicator i	A Teleradiology Service Provider must store all reports as required by legislation and regulation at the acquisition site.		

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Clause	Standard	QM Cross reference	Comments
8.5.6	<ul> <li>Security <ul> <li>Requirement applies to all teleradiology services whether a service provided by:</li> <li>a. an individual employee on call providing formal diagnostic reports remotely for their hospital or healthcare facility;</li> <li>b. an individual radiologist or group of individual radiologists;</li> <li>c. a practice group;</li> <li>d. a network of practices or practice groups;</li> <li>e. the local health authority or jurisdiction health department; or</li> <li>f. a third party provider.</li> </ul> </li> </ul>		
Indicators i	The persons or entities responsible for operating the Acquisition Site and the Reporting site must both have documented and accessible policies and procedures for security and the maintenance of security of patient identification and image data.		
Indicator ii	<ul> <li>The persons or entities responsible for operating the Acquisition Site and the Reporting Site must both have current accessible policies and procedures in place and available for reference at the reporting site(s): <ul> <li>a. to cover actions to be taken to prevent data security breaches or corruption;</li> <li>b. to record and notify the appropriate authority of any data security breaches or corruption;</li> <li>c. to record actions taken by those involved in handling such event(s);</li> <li>d. to document the actions taken by site management in response to the breach to prevent recurrence of the event(s); and</li> </ul> </li> <li>e. to guide the relevant personnel on the actions needed to be taken both immediately and by way of follow-up after a data breach or corruption</li> </ul>		
Indicator iii	The persons or entities responsible for operating the Acquisition Site and the Reporting Site must both maintain a log of all data security breaches or significant corruption events, which must be available for inspection by any authority entitled to do so.		
Indicator iv	The persons or entities responsible for operating the Acquisition Site and the Reporting Site must both have documented guidelines for the use of teleradiology data for education and research that comply with ethics and patient privacy principles and legislation in the jurisdiction of acquisition.		

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Clause	Standard	QM Cross reference	Comments
8.6.1	Teleradiology Service Providers		
Indicator i	The Teleradiology Service Provider must hold certificates indicating accreditation of the service, where applicable.		
Indicator ii	The Teleradiology Service Provider must hold contracts with each client site.		
Indicator iii	The Teleradiology Service Provider must hold copies of current registration certificates from the Medical Board of Australia for each reporting Radiologist.		
Indicator iv	The Teleradiology Service Provider must hold copies of current credentialing certificates from the local/regional credentialing committee for each reporting radiologist.		
Indicator v	The Teleradiology Service Provider must hold copies of current certificates or equivalent showing CPD compliance for each reporting radiologist		
Indicator vi	The Teleradiology Service Provider must hold copies of current insurance certificates or equivalent showing required cover for each reporting radiologist.		
Indicator vii	Refer to Standard 3.7.3 (Exchange of Digital Imaging Data and Reports).		
Indicator viii	<ul> <li>If there are urgent and significant unexpected findings, the Teleradiology Service Provider has a documented protocol that ensures:</li> <li>a) the reporting radiologist uses all reasonable endeavours to communicate directly with the referrer or an appropriate representative who will be providing clinical follow-up;</li> <li>b) a record of actual or attempted direct communication is maintained by the Practice; and</li> <li>c) the reporting radiologist co-ordinates appropriate care for the patient if they are unable to communicate such findings to the referring clinician.</li> <li>(As per Standard 5.5.3, Indicator iii)</li> </ul>		
8.6.2	Healthcare Providers Using Teleradiology		
Indicator i	The Healthcare Provider must hold contracts with the Teleradiology Service Provider.		
Indicator ii	The Healthcare Provider holds a record of meetings with the Teleradiology Service Provider.		
Indicator iii	The Healthcare Provider can demonstrate completeness of the information for cases sent to the Teleradiology Service Provider.		

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Clause	ause Standard		Comments
8.6.3	Image Viewing at Home for Clinical Radiologists		
Indicator i	The Healthcare Provider holds a record of IT and security governance for the home reporting sufficient to comply with the requirements		
8.7.1	Quality Assurance for Teleradiology Reporting		
Indicator i	The Acquisition Site has a clear, documented framework to monitor and/or audit the Teleradiology Service Provider.		
Indicator ii	The Acquisition Site has a clear, documented framework to monitor and/or audit the individual radiologists working for those providers, as they would for on-site clinical radiologists.		
Indicator iii	The Acquisition Site regularly undertakes reviews and/or audits of Teleradiology Service Providers and individual radiologists working for those providers, as they would for on-site clinical radiologists.		
8.7.2	Monitoring of Performance of Teleradiology Equipment		
Indicator i	The Teleradiology Service Provider has policies and procedures for monitoring and evaluating the proper performance of equipment used for the transmission, receipt and reporting process in keeping with Standard 3 covering the elements under their direct control, and licensing processes and requirements for jurisdiction radiation safety authorities.		
8.7.3	Peer Review.		

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Clause	Standard	QM Cross reference	Comments
Indicator i	<ul> <li>The Teleradiology Service Provider has a documented peer review process and must include processes and policies that provide:</li> <li>review of any discrepant reports notified to the Teleradiology Service Provider by an Acquisition Site, and the notification should be recorded and undergo the same review process as the internal review studies;</li> <li>for verbal communication with the referring clinician or equivalent person when required following review of a report, and the preparation and authorisation of any addendum to be delivered to the person(s) responsible for the patient's care in a timely manner;</li> <li>for a record to be maintained of the peer review cases, the classification of that review and any actions that follow the review;</li> <li>feedback to the reporting radiologist with the opportunity for discussion, appeal and/or amendment if necessary;</li> <li>the clinical radiologist with a regular report of their peer review results and any data needed to comply with RANZCR CPD requirements; and</li> </ul>		
8.7.4	<ul> <li>for peer review feedback to occur on an annual basis if required.</li> <li>Significant or Unexpected Findings</li> </ul>		
Indicator i	The Acquisition Site has a documented policy for report turnaround times that sets out expected turnaround times for defined urgent and non-urgent findings		
Indicator ii	The Acquisition Site maintains records of regular reviews of reporting turnaround times in accordance with this policy, and implements and records corrective action should there be any indications that the designated reporting times are not being met		
Indicator iii	<ul> <li>The Acquisition Site has a protocol for urgent and significant unexpected findings that ensures:</li> <li>a. the reporting radiologist uses all reasonable endeavours to communicate directly with the referrer or an appropriate representative who will be providing clinical follow-up;</li> <li>b. a record of actual or attempted direct communication is maintained by the <i>Reporting Site</i>; and</li> <li>c. the reporting radiologist co-ordinates appropriate care for the patient if they are unable to communicate such findings to the referring clinician.</li> </ul>		

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#### Self-assessment



Clause	Standard	QM Cross reference	Comments
8.7.5	Adverse Patient Outcome Events The clinical radiologist and/or the Teleradiology Service Provider should have an agreement with the Acquisition site on processes for handling any adverse events relating to the teleradiology service that meets local incident reporting protocol.		
Indicator i	Demonstration that the remote reporting radiologist has access to the same referral and clinical information as an on-site clinical radiologist.		
Indicator ii	Demonstration of the peer review record including feedback to the clinical radiologist and any actions that followed that feedback.		
Indicator iii	Demonstration of regular medical management review of the overall peer review process and results.		
Indicator iv	Demonstration of the record of Significant and Unexpected Findings and subsequent actions.		

# 9 ARTIFICIAL INTELLIGENCE

The scope of these AI Standards is to guide the development, deployment and monitoring of AI and machine learning in radiology settings. They set out what is expected across a series of domains and are intended to mitigate clinical risks and ensure best clinical care when using AI in radiology.

The Standards for Artificial Intelligence that are contained within this section (Section 9) will not be assessed at this time, however, Practices utilising AI or machine learning are still expected to comply with this section of the Standards.

During the assessment process, a discussion will be held with the Practice to better understand how/whether AI and machine learning is used within your practice.

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#### Self-assessment



Clause	Standard	Comments	
10 BMD			
10.1	<b>BMD Records</b> Practices shall comply with the requirements for the retention of non-medical records contained in the Accreditation Guidelines for Bone Densitometry.		
ndicator i	Raw data from scans is stored using long-term electronic storage mediums.		
ndicator ii	The Practice stores quality control data needed to validate scans.		
ndicator iii	Records are stored for a minimum of 10 years, or for the minimum applicable statutory requirements (whichever is longer).		
0.2.1	BMD – Equipment		
ndicator i	Equipment records demonstrate that acceptance testing and compliance testing has been carried out according to regulatory requirements.		
ndicator ii	Operation manuals for the BMD equipment are readily available		
ndicator iii	A BMD equipment maintenance program has been implemented and all aspects of the densitometer performance are checked according to the manufacturer's specifications.		
ndicator iv	Records are kept of all communications with the manufacturer, subsequent to installation of the machine.		
ndicator v	All software updates are implemented as soon as practicable.		
ndicator vi	All faults discovered are remedied and the fault and remedial action activity are recorded.		
ndicator vii	Records of calibration, QC, repair and maintenance of each item of equipment are kept for the life of the equipment.		
10.2.2	BMD Equipment Quality Control		
ndicator i	The practice's BMD equipment operation manuals include quality control monitoring requirements and quality assurance criteria which are consistent with Appendices 2 and 4 of the Accreditation Guidelines.		
ndicator ii	If the unit fails any of the quality control procedures it is evaluated in accordance with the operating manual. With repeated failures, patient measures are suspended until the equipment is thoroughly evaluated by an engineer recognised to do so by the relevant regulatory body.		
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Clause	Standard	QM Cross reference	Comments
Indicator iii	If there is a suspicion that previous patient results may be inaccurate, a		
	retrospective reanalysis of the relevant data is performed.		
Indicator iv	Quality control activity, including corrective and preventive action, is recorded.		
Indicator v	Subject to any required regulatory approval the practice performs In Vivo Short		
	Term Precision Testing on all DXA machines upon installation and after every		
	major service/repair.		
10.3.1	BMD Technologist Qualifications		
Indicator i	<ul> <li>The practice's BMD technologists have either:</li> <li>a) certification by a radiologist that as at 1 November 2000 they were operating BMD equipment and were deemed competent to do so; OR</li> <li>b) a tertiary qualification (degree or diploma) in the field of radiography, nuclear medicine, science or nursing, and additional post-graduate training in bone densitometry; OR</li> <li>c) certification of their BMD training from the ANZBMS.</li> </ul>		
Indicator ii	Only MITs meeting the qualifications described in 4.2.2 perform quantitative		
	computed tomography (QCT) examinations.		
Indicator iii	The BMD technologists hold current regulatory radiation licenses or registration		
	where these are available.		
10.3.2	BMD Service Engineers - Qualifications		
Indicator i	The practice's BMD equipment is tested for compliance and maintained by an		
	accredited service engineer		
10.3.3	BMD - Radiologist or Medical Specialist CPD		
Indicator i	The BMD radiologist/medical specialist maintains a BMD reference library which		
	he/she updates annually.		
10.4.1	BMD Technologist Responsibilities		
Indicator i	<ul> <li>The scope of responsibilities of the practice's BMD technologists covers:</li> <li>Personal preparation and positioning of the patient</li> <li>Personal conduct of the scan</li> <li>Personal analysis of the scan, and preparation of the report for checking by the radiologist or reporting medical specialist</li> <li>Quality control, quality assurance and equipment performance activity.</li> </ul>		
	Quality control, quality assurance and equipment performance activity.		

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Clause	Standard	QM Cross reference	Comments
10.4.2	Performance of the BMD Examination		
Indicator i	The BMD procedure manual is maintained under the professional supervision of the radiologist/medical specialist.		
Indicator ii	Only validated methods are used and these are documented in the BMD procedure manual.		
Indicator iii	BMD reference library is available to support and supplement this BMD procedure manual.		
Indicator iv	BMD examinations are conducted in accordance with the practice's BMD procedure manuals.		
Indicator v	The practice's protocols for BMD examinations ensure that the radiologist/medical specialist is readily contactable to discuss and, if necessary, alter the conduct of the examination.		
10.4.3	BMD – Reports		
Indicator i	<ul> <li>In addition to those items required under 5.5.1, the practice's BMD reports contain:</li> <li>Type of densitometer, scan mode, software version</li> <li>Type of scan</li> <li>Quantitative result</li> <li>Reference intervals and their source</li> <li>Reference to previous studies, where applicable.</li> </ul>		
Indicator ii	All reports are checked and approved by the supervising radiologist/medical specialist prior to issue.		

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Clause	Standard	QM Cross reference	Comments
10.4.4	BMD – Interpretation and Consultation		
Indicator i	<ul> <li>Protocols ensure that a consultation service is available to referring practitioners whereby they can obtain information in relation to a patient's BMD examination, which includes:</li> <li>The precision and accuracy of methods used in the unit, including in vivo and in vitro precision estimates for all scans performed in the unit</li> <li>The statistical significance of results and their relation to reference intervals, this includes data on the source of the reference interval used for scan interpretation</li> <li>The scientific basis and the clinical significance of the results</li> <li>The suitability of the requested procedure to solve the clinical problem in question</li> <li>Further procedures which may be helpful.</li> </ul>		

Clause	Standard	QM Cross reference	Comments
11 CT			
11.1.1	CT - Equipment Quality Control		
Indicator i	Documented program of quality control for CT with access to services of a medical		
	physicist as required.		
Indicator ii	The Practice takes action to remediate any variations from normal that are		
	indicated by such testing, and records are kept of any remedial action taken.		
Indicator iii	Preventative maintenance is scheduled, performed and recorded by a qualified		
	service engineer in accordance with manufacturer specifications.		
	Service performed to correct system deficiency is recorded and the records are		
	maintained at the site where the equipment is located.		

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Clause	Standard	QM Cross reference	Comments
11.1.2	CT -Monitors		
Indicator i	The reporting and interpretation of CT examinations are only carried out using		
	monitors meeting the requirements as specified by the manufacturer to facilitate		
	full resolution display (refer to Appendix D).		
11.2.1	CT -Medical Practitioner		
	(see 4.2.1 in these standards).		
Indicator i	CT Coronary Angiography (CTCA) services are provided by a registered specialist		
	(CTCA specialist with the Conjoint Committee for the Recognition of Training in		
	CT Coronary Angiography).		
Indicator ii	CT Colonography (CTC) services are provided by a registered radiologist		
	(RANZCR CT Colonography Accreditation Committee).		
11.3.1	Review of Appropriateness of Request		
Indicator i	Protocols are in place so that inappropriate studies can be avoided and triaged to		
	non-ionizing radiation based imaging techniques.		
Indicator ii	Protocols for CT which set out criteria regarding indications for patients who		
	should or should not receive contrast agent, the appropriate dose of contrast		
	agents for CT examinations, and indicate when consultation with the supervising		
	radiologist is required.		
Indicator iii	The protocols include flags for mandatory radiologist image review prior to the patient leaving the site.		
Indicator iv	The practice ensures that the radiologist is readily contactable to discuss and, if		
	necessary, alter the conduct of the imaging examination.		
Indicator v	Maintains records of on-site attendance by the clinical radiologist/s.		
Indicator vi	Any regulatory requirements in relation to on-site supervision by the radiologist/s		
	for this component of the service are also met.		
11.3.2 CT	Performance of Examinations		
Indicator i	Protocols for CT examinations which have been developed and implemented		
	collaboratively by the medical imaging team.		
Indicator ii	Protocols ensure that a clinical radiologist supervises all components of the		
	imaging examination and has ongoing in-person interaction with members of the		
	imaging team.		

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Clause	Standard	QM Cross reference	Comments
Indicator iii	Protocols ensure that a clinical radiologist reviews images and alters the conduct		
	of the examination or scanning protocols as required.		
Indicator iv	Protocols ensure that CT examinations, either with or without IV contrast, are		
	performed by a radiographer (as per 4.2.2), and that the radiologist is readily		
	contactable to discuss and, if necessary, alter the conduct of the imaging		
	examination in or out of hours.		
Indicator v	Protocols ensure that the task of obtaining intravenous access for administering		
	intravenous contrast for CT examinations is only performed by staff trained in		
	venepuncture and the administration of contrast.		
Indicator vi	Protocols ensure that the radiologist or another medical practitioner who is aware		
	of this responsibility shall be immediately available to personally attend and treat		
	the patient in case of a complication of intravenous contrast administration or		
	other medical emergency.		
Indicator vii	Any regulatory requirements in relation to on-site supervision by the radiologist for		
	this component of the service are also met.		
11.3.3	CT Interpretation and Reporting of Examinations		
Indicator i	CT examinations are interpreted and reported by a clinical radiologist holding the		
	qualifications described in 4.2.1 these standards.		
11.3.4.1	CT- Image Quality		
Indicator i	The practice's RANZCR CT Image Review Self Audit records demonstrate that the practice:		
	Completed this protocol within 3 months of installation		
	Completes this protocol at least annually		
Indicator ii	Any variations from normal are recorded.		
Indicator iii	Any corrective or preventive action required is taken and is recorded as part of the		
	audit process.		
11.3.4.2	CT Dose		
Indicator i	Records show that its radiologists maintain and regularly review CT scanning		
	protocols, which are optimised to limit patient radiation exposure.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	Where the CT unit being used is capable of displaying DLP or CTDI figures, the practice reviews CT patient dosimetry at least annually for specific common scan protocols and documents the typical DLP for the specified protocols.		
Indicator iii	Through this process, the practice establishes Facility Dose Reference Levels (FRLs) for CT.		
Indicator iv	Any significant deviation above (or below) previous FRLs are investigated and a dose optimisation program is conducted that addresses this deviation while maintaining diagnostic image quality.		
Indicator v	Where national DRLs exist, FRLs are regularly compared with these national DRLs.		
Indicator vi	Significant deviation of FRLs above (or below) DRL's are investigated and a dose optimisation program is conducted that addresses this deviation while maintaining diagnostic image quality.		

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Clause	Standard	QM Cross reference	Comments
12 GENE	RAL X-RAY		
12.1.1	Monitors – General X-Ray, CR/DR		
Indicator i	The interpretation and reporting of general x-ray, CR/DR examinations are carried out on monitors meeting the requirements set out in Appendix D.		
12.2.1	Operators of General Radiography Equipment		
Indicator i	Personnel operating the general x-ray equipment hold a current relevant jurisdiction/s use or operator's license (however named) and restrict their practice to the scope of that licence.		
Indicator ii	The practice meets all regulatory conditions relating to supervision of such personnel.		
12.3.1	Fluoroscopy Examinations		
Indicator i	Protocols and rosters ensure that the radiologist responsible for each fluoroscopic examination is available to personally attend the patient.		
Indicator ii	The practice ensures the safe use of contrast for fluoroscopic examinations according to item 5.4.2 in these standards.		
12.3.2.1	General X-Ray– Plain Film Image Review		
Indicator i	Repeat analysis is performed Results and any corrective actions are recorded		
Indicator ii	Repeat analysis to monitor dose usage and image quality		
12.3.2.2	CR/DR Performance Testing		
Indicator i	The Practice follows the manufacturer's equipment testing guidelines and the RANZCR General X-ray QA & QC Guideline for all its CR.DR equipment. Records are maintained for all CR/DR performance testing activities		
Indicator ii	The practice has implemented a process which maintains dose output records (commencing from acceptance testing) and reviews Facility Reference Levels (FRLs) at least six-monthly, ensuring that any general increase in dosage levels is identified, examined, corrected as necessary and recorded.		
Indicator ii	Repeat analysis is performed (CR/DR examinations). Results and any corrective actions are recorded.		

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Clause	Standard	QM Cross reference	Comments
12.3.2.3	Fluoroscopy – Image and Screening Time Review The practice shall implement, maintain and follow a documented QA program for fluoroscopy procedures.		
Indicator i	The review of its fluoroscopy services includes a six-monthly review of reference Air Kerma and DAP.		
Indicator ii	The practice conducts an internal fluoroscopy image review program which is subject to an annual audit by the medical and non-medical imaging team members.		
12.4.1	Radiation Safety – Fluoroscopic Examinations		
Indicator i	The practice records screening times for all fluoroscopic examinations.		
Indicator ii	The practice records the Dose Area Product (DAP) for all fluoroscopic examinations or where that is not possible, the average kVp and mAs is recorded.		
Indicator iii	The practice takes and records any corrective action that is necessary to minimise patient exposure.		

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Clause	Standard	QM Cross reference	Comments
13 INTERV	/ENTIONAL RADIOLOGY		
RANZCR de	etermines that there are two tiers of interventional radiology: Tier A and Tier B. These a	re defined in App	pendices B and C.
13.1.1	Interventional Radiology Suite – Tier A Procedures		
Indicator i	The CT and ultrasound rooms have sufficient space to allow safe patient transfer from bed to table.		
Indicator ii	There is sufficient room for all fixed hardware and movable hardware without compromising either the transfer of the patient or the operating team and support personnel's ability to manage the patient.		
Indicator iii	The suite is equipped with Advanced Life Support (ALS) equipment.		
13.1.2	Interventional Radiology Suite – Tier B Procedures		
Indicator i	The suite is of sufficient size to allow safe patient transfer from bed to table.		
Indicator ii	The angiography suite allows sufficient room for all fixed hardware and movable hardware without compromising either the transfer of the patient or the operating team and support personnel's ability to manage the patient.		
Indicator iii	The suite is equipped with ALS equipment.		
13.1.3	Interventional Neuro-radiology Facilities		
Indicator i	The practice ensures that intracranial, spinal and neural axis neuro-interventional procedures are performed only when/if neurosurgical facilities are available on site and a neurosurgeon or other appropriate clinical specialists are available either on site or on call.		
13.2.1	<b>Angiography</b> The practice shall ensure that appropriate equipment is used for angiography procedures.		
Indicator i	The practice ensures that when diagnostic angiography procedures are performed, a fixed high resolution (at least 512x512) matrix image intensification system or flat plate CCD system with at least a 25cm field and with digital acquisition and subtraction is used.		

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Clause	Standard		Comments
Indicator ii	The use of image intensifiers should be confined to relatively simple non-vascular interventions or hybrid procedures (combined open surgical/endovascular) performed in an operating room. Mobile image intensifiers are not recommended for diagnostic angiography on a routine basis		
13.2.2	Angiographic Injector		
Indicator i	When angiographic injectors are used they are capable of varying injection volumes and rates and have appropriate safety mechanisms to prevent over injection (e.g. psi monitoring)		
13.2.3	Equipment for Non-vascular Procedures		
Indicator i	The practice ensures that all imaging modalities appropriate to non-vascular interventional procedural requirements are available on site and that patients are referred to another service when these modalities are not available.		
13.2.4	Supplies		
Indicator i	The practice's supplies records show that it maintains sufficient supplies of devices for interventional procedures and the management of possible complications.		
13.2.5	Physiological Monitoring		
Indicator i	For Tier A procedures Angiography : ECG and blood pressure monitoring Sedated or ill patient : include pulse oximeter		
Indicator ii	For Tier B procedures and procedures requiring sedation, comprehensive physiological monitoring, including ECG, blood pressure and pulse oximetry. Anaesthetised patients - relevant gas supplies, suction, electrical capability, monitoring and other facilities/supplies are required		
Indicator iii	Where warranted, further/supplementary equipment is used which is appropriate to risks associated with the procedures being performed.		

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Clause	Standard	QM Cross reference	Comments
13.2.6	Emergency and Resuscitation Equipment		
	For Tier A and B procedures, ALS equipment and drugs are readily		
Indicator i	available, accessible and ready for use.		
	Attending personnel are trained in resuscitation techniques.		
13.3.1	Radiologists – Interventional Radiology – Under Review		
Indicator i	Each radiologist performing Tier A procedures complies with the requirements		
	listed under Item 4.2.1 in these standards.		
Indicator ii	Each radiologist performing Tier B procedures has undertaken sufficient additional training, beyond FRANZCR, appropriate to the scope of their interventional practice.		
	The practice ensures that when an endovascular or ablating device is to be used		
Indicator iii	but is not listed on the TGA register, the radiologist performing the associated		
	procedure/s is authorised by the TGA.		
13.3.2	CPD – Interventional Radiology		
Indicator i	Records demonstrating performance in appropriate CPD activities for the		
	radiologists, including a clinical audit of their cases.		
Indicator ii	This CPD activity is consistent with training requirements listed in Item 13.3.1 in		
	these standards.		
13.4.1	Review of Appropriateness of Request – Review of the Referral for Interventional Radiology		
	The practice ensures that the radiologist personally attends each patient		
Indicator i	undergoing interventional procedures		
	Attendance is demonstrated in the practice records and patient history/notes.		
	Protocols ensure that where warranted, the radiologist includes consultation with		
Indicator ii	multidisciplinary team members managing the patient's care for this component of		
	the medical imaging service.		
13.4.2	Examination Supervision – Interventional Radiology (Tier A & Tier B) and Interventional Neuroradiology		
Indicator i	Records to indicate interventional procedures are personally performed by suitably qualified radiologists (see 13.3.1)		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	Neurosurgery facilities and a neurosurgeon are available as per item 13.1.2 in these standards when an intracranial interventional neuroradiology procedure is being performed.		
13.4.3	Interventional Radiology – Availability of Personnel		
Indicator i	Protocols ensure that interventional procedures are performed only when personnel trained in emergency resuscitation and emergency resuscitation equipment and drugs are immediately available at the practice and in working order.		
Indicator ii	When Tier A interventional procedures are being performed, appropriately trained personnel are available to respond in a timely fashion in the event of an emergency.		
Indicator iii	When Tier B interventional radiology procedures are being performed, personnel trained in advanced life support are available to respond in an appropriate timeframe in the event of the need for emergency resuscitation.		
13.4.4	Interventional Radiology – Pre and Post-operative Assessment		
Indicator i	<ul> <li>Protocols ensure that each radiologist performing interventional procedures personally either:</li> <li>a. attends their patients to make pre-operative and post-operative assessments; OR</li> <li>b. delegates this activity to an associate medical practitioner who is a member of the multidisciplinary team managing the patient's care.</li> </ul>		
Indicator ii	<ul> <li>Each radiologist performing interventional procedures personally either:</li> <li>a) obtains consent from each of his/her patients prior to a procedure being performed; OR</li> <li>b) delegates this activity to an associate radiologist who is a member of the multidisciplinary team managing the patient's care.</li> </ul>		
13.4.5	Interventional Radiology Quality Assurance and Improvement Program A fully documented quality assurance and improvement program must be established to monitor the practice's standards of patient care. It must incorporate the full range of procedures that are performed and shall include a clinical audit of outcomes at regular intervals.		
Indicator i	There is a quality assurance and improvement program for interventional radiology covering the procedures performed at the practice.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	Indicator thresholds and success rates for procedures performed have been established against external evidence-based criteria and are regularly assessed.		
Indicator iii	Policies and practices are reviewed at regular intervals, and action is taken to resolve any problems identified.		
Indicator iv	The quality assurance and improvement program shall include regular mortality and morbidity meetings.		
13.5.1	Rapid Transport		
Indicator i	Documented protocols for the availability of emergency care/surgical support for patients undergoing Tier A procedures.		
Indicator ii	Protocols for the rapid transport of interventional patients to an acute care facility ensuring timely access to appropriate treatment for all patients consistent with the risks associated with the interventional procedures being performed.		
13.5.2	Surgical Support and/or Rapid Transport		
	When Tier B Interventional Radiology procedures are performed, the practice shall ensure the availability of surgical support or have a formal detailed protocol for rapid transport of patients to an acute care facility.		
Indicator i	Documented protocols that ensure the availability of emergency care/surgical support for interventional patients undergoing Tier B interventional procedures.		
Indicator ii	Protocol for rapid transport of patients to an acute care facility ensuring timely access to appropriate treatment for all patients consistent with the risks associated with the interventional procedures being performed.		
Indicator iii	Interventional neuroradiology procedures are only performed in practice settings where neurosurgical support is immediately available on site.		

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Clause	Standard	QM Cross reference	Comments
14 MRI			
14.1.1 Indicator i	MRI Equipment Specifications and Acceptance TestingThe Practice shall ensure that acceptance testing is carried out at the completionof the installation of the MRI unit prior to regular patient imaging.The practice's equipment inventory shows that the MRI system meets TGA		
Indicator ii	<ul> <li>requirements.</li> <li>The practice holds acceptance testing records which demonstrate that such acceptance testing follows AAPM, NEMA or other RANZCR-approved standards and includes tests of: <ul> <li>Magnetic field homogeneity</li> <li>RF shield integrity</li> <li>RF calibration</li> <li>System signal to noise ratio</li> <li>Signal uniformity</li> <li>Geometrical distortion</li> <li>Slice thickness and positioning accuracy or equivalent tests of gradient performance and RF pulse characteristics.</li> </ul> </li> </ul>		
Indicator iii	The minimum resolution of monitors used for interpretation and reporting of MRI is 1024 x 768 Colour/Monochrome.		
14.1.2	MRI Compatible Equipment (In-room Equipment)		
Indicator i	Sedation and associated monitoring equipment for MRI procedures is available within the MRI magnet room, operational, and certified MRI-compatible by the manufacturer of the equipment.		
Indicator ii	Resuscitation drugs and equipment for the potential complications of sedation are immediately available, and all such equipment is operational and certified MRI compatible by the manufacturer of the equipment.		

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Clause	Standard	QM Cross reference	Comments
Indicator iii	When paediatric patients are sedated, sedation and monitoring equipment of an appropriate size for paediatric patients is available in the procedure room before the start of the procedure, operational and certified MRI-compatible by the manufacturer of the equipment.		
Indicator iv	Anaesthesia equipment used in relation to MRI examinations is stationed in the magnet room for MRI, is operational and is certified as MRI compatible by the manufacturer.		
14.1.3	MRI Quality Control Program		
Indicator i	The practice maintains a documented MRI quality control program.		
Indicator ii Indicator iii	<ul> <li>All quality control testing is carried out in accordance with specific procedures and methods such as those of AAPM or those recommended by the manufacturer, and include tests of:</li> <li>System signal to noise ratio</li> <li>Signal uniformity</li> <li>RF system stability</li> <li>Ghost intensity (for systems with analogue RF subsystems)</li> <li>Geometrical distortion</li> <li>Slice thickness and positioning accuracy.</li> <li>Phantoms used for the above tests may include manufacturer-supplied phantoms, or other third-party equipment.</li> <li>The practice ensures that regular servicing of the MRI system is carried out, and</li> </ul>		
Indicator v	that service reports and corrective action records are held on site. Preventative maintenance is scheduled, performed and recorded by a qualified service engineer on a regular basis in accordance with manufacturers' specifications.		
Indicator vi	Service performed to correct system deficiency is recorded and the records are maintained at the MRI site.		
14.2.1	Qualifications – MRI Radiologist		
Indicator i	The practice ensures that each of its radiologists interpreting and reporting MRI examinations for each MRI system operating at the service is registered with the RANZCR as an MRI Radiologist.		

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Clause	Standard	QM Cross reference	Comments
14.2.2	Qualifications – MRI Radiographer		
Indicator i	<ul> <li>The practice's MRI radiographers have training and experience that can be demonstrated in one of the following ways:</li> <li>a. meeting the requirements for the ASMIRT's Level 1 Certificate; OR</li> <li>b. training and experience equivalent to that required for the ASMIRT's Level 1 Certificate, including at least 300 supervised clinical MRI examinations during the past 2 years; OR</li> <li>c. meeting the radiographer qualifications as stated in 4.2.2 with an additional minimum 3 months' FTE MRI experience and performance of at least 300 clinical examinations within the past 2 years; OR</li> <li>d. certificate of equivalency as conferred by the ASMIRT.</li> </ul>		
Indicator ii	<ul> <li>Radiographers training in MRI are supervised by:</li> <li>a. an MRI radiographer who either holds the ASMIRT Level 2 Certificate, or has equivalent qualifications and experience; OR</li> <li>b. an MRI radiographer, in conjunction with a supervising radiologist who has taken into consideration the student's previous MRI experience (including the number and range of studies), the needs of the MRI facility and the guidelines of the ASMIRT.</li> </ul>		
14.2.3	Qualifications – MRI Service Engineers MRI service engineers must be qualified on the basis of training and experience and must have included the model and manufacturer of the MRI equipment used at the practice.		
Indicator i	The practice ensures that the service organisation providing service engineers for the MRI system confirm certification of the service engineers.		
14.2.4	<b>CPD - MRI Radiologist</b> The radiologists supervising and reporting MRI examinations must complete a minimum of 30 MRI specific CPD points every 3 years.		
Indicator i	Each of its radiologists is a current participant in the MRI Quality Program.		
14.2.5	CPD – MRI Radiographer		
Indicator i	Radiographers performing MRI examinations can provide evidence of MRI- specific CPD activity.		

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Clause	Clause Standard		Comments
14.3.1	MRI System Supervision		
Indicator i	Each MRI unit holds current RANZCR MRI registration Professional supervision of the MRI unit is maintained by its nominated Liaison MRI Radiologist.		
Indicator ii	The nominated Liaison MRI Radiologist is responsible for designing and periodically reviewing the MRI unit's protocols, including those for safety screening, contrast usage and pulse sequences, and implementing and ensuring adherence to these.		
Indicator iii	The nominated Liaison MRI Radiologist is responsible for ensuring that each MRI radiologist is participating in the RANZCR QAP.		
Indicator iv	Protocols for MRI provide for delegation of duties to MRI radiographers.		
14.3.2	MRI Review of Appropriateness of Request and Patient Preparation		
Indicator i	The review of the request is undertaken and protocolled by one of the practice's MRI radiologists, or a delegated and appropriately qualified MIT.		
Indicator ii	Protocols define a list of examinations that routinely require prompt MRI Radiologist review before patient discharge.		
Indicator iii	There is provision for the imaging protocol to require prompt MRI radiologist review of the images before patient discharge.		
Indicator iv	Safety screening follows RANZCR MRI Safety Guidelines whereby an MRI Radiologist is available for telephone consultation within 10 minutes.		
14.3.3 –	MRI Performance of the Examination The Practice shall ensure that each MRI examination is carried out under professional supervision arrangements appropriate to both the patient's clinical needs and the specific examination being undertaken.		
Indicator i	Protocols ensure that all MRI examinations requiring contrast are carried out under the supervision requirements stated in 5.4.2.		
Indicator ii	Protocols ensure that MRI examinations requiring sedation or monitoring of an unstable patient are only carried out when an appropriately trained medical practitioner is immediately available to personally attend the patient, and an MRI radiologist is immediately available to review the images.		

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Clause			Comments
Indicator iii	Protocols ensure that when MRI examinations require image review prior to patient discharge, an MRI radiologist is available to do so within 10 minutes of the completion of image acquisition (either on-site or remotely).		
Indicator iv	The protocols ensure that when all other MRI examinations are performed, an MRI radiologist is available for telephone consultation within 10 minutes of the completion of image acquisition.		
14.3.4	MRI Procedures		
Indicator i	The technical factors are documented for each anatomic site for standard MRI procedures commonly performed by the practice.		
Indicator ii	The practice records a review of MRI procedures by MRI staff, including the nominated Liaison MRI Radiologist, at least annually.		
14.3.5.1	MRI Image Review		
Indicator i	Each MRI units holds current registration with the RANZCR MRI Quality Program.		
Indicator ii	MRI clinical image review is performed in accordance with that Program and at intervals determined under the Program.		
Indicator iii	Images of an approved MRI phantom are submitted for review by RANZCR approved consultants, at intervals determined under the Program.		
Indicator iv	Quality assurance of the MRI system is performed at appropriate intervals.		
14.3.5.2	MRI Quality Improvement Program		
Indicator i	The practice maintains an MRI quality improvement program under the direction of the Liaison MRI Radiologist which includes the recording of adverse events including, but not limited to, carriage of inappropriate objects into the examination room, failure to complete an examination due to patient distress and system malfunction.		
Indicator ii	The MRI quality improvement program includes periodic review of these records to identify opportunities to improve patient care.		
Indicator iii	The MRI quality improvement program attempts to correlate imaging findings with surgical, pathological and clinical outcomes.		
Indicator iv	The practice ensures that regular servicing of the MRI system is carried out, and that service reports and corrective action records are held on site.		

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Clause	Standard	QM Cross reference	Comments
14.4.1	MRI Safety		
Indicator i	MRI safety practices and policies are enforced and reviewed at least annually by the Liaison MRI Radiologist.		
Indicator ii	MRI safety practices and policies comply with the RANZCR MRI Safety Guidelines.		
Indicator iii	MRI safety practices and policies take into consideration potential interactions of the magnetic field with ferromagnetic objects in the environment of the scanner, and potential hazards posed by objects implanted within the patient, as well as within personnel in the area.		
Indicator iv	<ul> <li>The MRI safety policy includes:</li> <li>a. exclusion of the general population outside the 5 Gauss line with appropriate warning signs; and</li> <li>b. procedures to screen patients and all other personnel entering the MRI examination room for intracranial aneurysm clips, cardiac pacemakers, intraocular foreign bodies and other contraindicated devices (e.g. cochlear implants).</li> </ul>		
Indicator v	An MRI safety education session is provided for all staff accessing the MRI area.		
Indicator vi	The MRI safety practices ensure that an appropriately equipped emergency cart is immediately available to treat serious adverse reactions and for resuscitation in case of respiratory or cardiac arrest within the MRI suite.		

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Clause	Standard	QM Cross reference	Comments
15 MAMM	OGRAPHY (Including tomosynthesis)		
15.1.1	Mammography Labelling of ImagesThe labelling of mammography images must be sufficiently comprehensive to ensure thatthey can be unequivocally traced to the patient and to enable their interpretation		
Indicator i	<ul> <li>The practice ensures that its mammography images are labelled with the following: <ul> <li>a. A permanent identification label, that details:</li> <li>Facility name</li> <li>Patient's full name</li> <li>Patient identification (e.g. unique Medical Record Number or patient date of birth)</li> <li>Examination date.</li> </ul> </li> <li>b. Radiopaque markers (or electronic markers with CR/DR units) indicating laterality (R/L) and projection/view (MLO/CC.)</li> <li>Placed near the aspect of the breast closest to the axilla</li> <li>Placed on the cassette so they can be read from overhead (In the case of film screen and CR units)</li> <li>Large enough to be clearly readable without being distracting</li> <li>Utilising standard abbreviations.</li> </ul> c. Radiographer's name, initials or unique radiographer identifier code either on the identification label or in radiopaque letters on the cassette holder; or in the case of CR/DR units, cassette identification (to enable tracking of artefacts or defects). d. Cassette/screen identification by Arabic number written or pressed on the screen to identify screens with artefacts or defects. e. A radiopaque (or electronic in the case of CR/DR units) dedicated mammographic unit identifier, e.g. MQAP number.		
Indicator ii	With the exception of the markers indicating laterality and view, all labels are placed as far from the breast as possible.		

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Clause	Standard	QM Cross reference	Comments
Indicator iii	Where initials are used on labels, a log of names and identifying initials are maintained.		
Indicator iv	Collimation is to the edge of the image so that as much of the image as possible will be exposed.		
Indicator v	Image labelling does not obscure breast tissue.		
15.2.1	Diagnostic Mammography Equipment		
Indicator i	The practice only performs mammography examinations on dedicated mammography equipment which complies with the equipment requirements of the RANZCR Mammography Quality Assurance Program (MQAP).		
Indicator ii	Acquisition monitors used for mammography have a minimum resolution of 3MP and a minimum brightness of 250cd/m <sup>2</sup> .		
Indicator iii	The reporting of digital mammography examinations is carried out on paired monitors, or appropriate single monitor of correct specification, each meeting the requirements set out in Appendix D; the mammographic image being displayed in monochrome.		
15.2.2	<b>Diagnostic Mammography Quality Control</b> There must be documented procedures for QC checks as specified in the RANZCR Guidelines for QC Testing for Digital (CR DR) Mammography or the ACPSEM recommendations for a digital mammography QA program.		
Indicator i	The MQAP records confirm that it carries out mammography quality control procedures according to the RANZCR Guidelines for Quality Control Testing for Digital (CR DR) Mammography.		
15.2.3	Diagnostic Mammography Annual Equipment Testing Mammography equipment must be tested annually.		
Indicator i	Records demonstrate that its mammography equipment meets the manufacturer's equipment testing guidelines, where applicable.		
Indicator ii	MQAP records demonstrate that the equipment also complies with the Guidelines for Quality Control Testing for Digital (CR DR) Mammography.		
15.3.1	Qualifications – Equipment Assessors for Mammography Equipment		
Indicator i	The Practice's MQAP records show that annual mammography equipment testing is carried out by a certified equipment assessor.		

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Clause	Standard	QM Cross reference	Comments
15.3.2	CPD – Radiologist		
Indicator i	Each of its radiologists who interpret mammograms has accumulated 15		
	mammography specific CPD points in the past 3 years in mammography CPD		
	activities recognised by the RANZCR CPD program.		
15.3.3	CPD – Radiographer		
Indicator i	Radiographers who perform mammography examinations participate in at least 15		
	hours of mammography specific CPD every 3 years.		
15.4.1	Professional Competence		
Indicator i	Personnel providing mammography services are appropriately qualified and		
	experienced according to the requirements of these standards.		
Indicator ii	Its MQAP clinical image review records demonstrate that the practice consistently		
	strives to achieve a consistent, quality mammography service.		
15.4.2	Mammography Review of Appropriateness of Request		
Indicator i	Practice records show that the radiologist rostered for its mammography services		
	is available to discuss the request and when necessary alter the conduct of the		
	mammography examination.		
15.4.3	Mammography – Reporting the Results		
Indicator i	The practice ensures that only radiologists meeting the requirements set out in		
	items 4.2.1 and 15.3.1 in these standards report mammography examinations		
Indicator ii	It ensures that these radiologists are rostered on a regular basis at a service		
	performing mammography.		
15.4.4	Mammography - Performance of the ExaminationsThe Radiologist shall be responsible for ensuring the implementation and adherence of appropriate written protocols to be followed by members of the imaging team.The Radiologist shall be available o personally attend the patient in order to alter the conduct of the examination.Screening mammography performed as part of an organized population screening 		

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Clause	Standard	QM Cross reference	Comments
Indicator i	Records show that the radiologist rostered for mammography services is able to communicate with the patient and/or direct the radiographer in relation to positioning that is consistent with the Guidelines for QC Testing for Digital (CR/DR) Mammography protocols.		
Indicator ii	Its professional supervision arrangements for mammography provide for the rostered radiologist being able to request repeat or additional projections (e.g. magnification views) when these are required to achieve a diagnostic quality examination.		
15.4.5	Diagnostic Mammography Image Review		
Indicator i	The practice holds current MQAP records for each of its diagnostic mammography units.		
15.5.1	<b>Mammography - Radiation Dose</b> The Practice must not exceed the mammography radiation dose limit requirements of the ACPSEM Recommendations for a digital mammography QA program.		
Indicator i	Practice mammography records show that the mean glandular dose as determined by the equipment assessor, does not exceed 2mGy per view, using the RMI-156 phantom or the Gammex Mammo FFDM phantoms.		

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Clause	Standard	QM Cross reference	Comments
16 NUCLEAR M	IEDICINE		
16.1	<b>Definition</b> For the purposes of these Standards, the term 'nuclear medicine' encompasses general nuclear medicine services, PET services, nuclear medicine therapy and theranostics		
16.2	Nuclear Medicine Facilities		
Indicator i	The Facility complies with specific legislative requirements for the provision of nuclear medicine services.		
Indicator ii	Access to and use of areas is controlled.		
Indicator iii	There is an effective separation between areas where nuclear medicine services are performed and other areas of the Facility.		
Indicator iv	The Facility maintains safety practices appropriate to the handling of radioactive substances.		
Indicator v	The Facility demonstrates compliance with workplace safety and other regulatory requirements concerning employment.		
Indicator vi	The Facility maintains cleanliness of the facilities.		
Indicator vii	The Facility assures patient privacy.		
Indicator viii	The Facility provides appropriate staff amenities.		
15.3.1	Nuclear Medicine -Equipment		
Indicator i	The Equipment inventory demonstrates that appropriate equipment used for nuclear medicine services is available.		
Indicator ii	The Equipment inventory demonstrates that all equipment is serviced according to the manufacturers' specifications and does not exceed the recommended life of the item of equipment.		
Indicator iii	Where cardiac stress testing is performed, the Facility must have equipment available for advanced life support that complies with the requirements of Item 16.6.6.		

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Clause	Standard	QM Cross reference	Comments
16.4.1	Qualifications – Nuclear Medicine Specialist		
Indicator i	The Facility's nuclear medicine services are provided by nuclear medicine		
	specialists who:		
	a. are recognised as a specialist in nuclear medicine by AHPRA; and		
	<ul> <li>are credentialled as nuclear medicine specialists and additionally, if reporting PET are credentialled in PET, by the Joint Nuclear Medicine</li> </ul>		
	Specialist Credentialing Program.		
Indicator ii	Each nuclear medicine specialist holds a current radiation license applicable to the		
	provision of nuclear medicine services in the Facility's state/territory jurisdiction.		
Indicator iii	Each of these specialists maintains a record of CPD activity (which may include		
	RANZCR/RACP program records) with specific details of nuclear medicine		
	activities.		
Indicator iv	Where cardiac stress testing is performed, the conduct of such testing is in		
	compliance with the CSANZ Safety and Performance Guidelines for Clinical		
	Exercise Stress Testing (reference).		
16.4.2	Qualifications – Nuclear Medicine Technologist		
Indicator i	Nuclear medicine technologist's current accreditation with the AHPRA.		
Indicator ii	Where these are available, each nuclear medicine technologist holds current		
	registration and a current radiation operator's licence applicable to nuclear		
	medicine services with the applicable regulator in the Facility's state/territory		
	jurisdiction.		
Indicator iii	Each nuclear medicine technologist can demonstrate participation in nuclear		
	medicine CPD activity.		
Indicator iv	If a technologist operates a gamma CT unit for Attenuation Correction (AC) and		
	Anatomic Correlation (AnC), appropriate training in operation of the CT		
16 4 2	component is demonstrated.		
16.4.3 Indicator i	Trainee Nuclear Medicine Technologists           The practice holds an ANZSNM accreditation certificate in relation to any trainee		
	nuclear medicine technologists working at the facility.		
Indicator ii	Trainees are supervised at all times by an accredited nuclear medicine		
	technologist (rosters to indicate supervision).		
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Clause	Standard	QM Cross reference	Comments
16.4.4	Qualifications – Nuclear Medicine Medical Physicist		
Indicator i	The medical physicists providing support are accredited in nuclear medicine		
	physics by the ACPSEM or the relevant jurisdiction authority.		
Indicator ii	The nuclear medicine medical physicists hold current regulatory licenses to use		
	sealed and unsealed sources, where applicable, in the Facility's state/territory		
	jurisdiction.		
16.5.1	<b>Responsibility of the Nuclear Medicine Specialist</b> The specialist in NM shall comply with the Responsibility of the Specialist requirements in the AANMS Standards.		
Indicator i	Nuclear medicine specialists are responsible for :		
	<ul> <li>the quality and safety of all nuclear medicine services provided by personnel at the facility</li> </ul>		
	<ul> <li>assuring the nuclear medicine service provided is appropriate for the presenting condition of the patient</li> </ul>		
Indicator ii	Personnel are properly trained, qualified and competent to perform each procedure in which they are directed to participate.		
Indicator iii	delegate responsibility to other persons to perform patient care tasks.		
Indicator iv	Nuclear medicine specialists participate in multidisciplinary team meetings and interact with referring doctors as required. Nuclear medicine specialists address medicolegal requirements by formal preparation for review, portrayal and discussion of pertinent findings. Nuclear medicine specialists may delegate these duties to advanced trainees in nuclear medicine, as appropriate.		
Indicator v	Where therapeutic nuclear medicine services are provided at a Facility, the nuclear medicine specialists are responsible for ensuring that patients and carers are appropriately counselled in relation to the benefits and potential risks of radiation exposure and organ damage.		

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Clause	Standard	QM Cross reference	Comments
16.5.2	Responsibility of the Nuclear Medicine Technologist		
	A nuclear medicine technologist's responsibilities shall comply with the AANMS Standards.		_
Indicator i	Facility's records demonstrate that the nuclear medicine technologist		
	responsibilities include radiopharmaceutical preparation and administration,		
	imaging and data processing and the full range of nuclear medicine procedures		
	under the supervision of the nuclear medicine specialist.		
16.5.3	Nuclear Medicine - Supervision of Service		
	Supervision in the practice of nuclear medicine shall comply with AANMS Standards.		
Indicator i	Protocols ensure that the nuclear medicine specialist is available to personally		
	attend the patient during the conduct of the nuclear medicine examination.		
Indicator ii	They ensure that the nuclear medicine specialist determines the appropriateness		
	of and monitors the quality of the procedure.		
Indicator iii	These protocols ensure that the nuclear medicine specialist is able to assess and		
	influence the outcome of the examination.		
Indicator iv	These protocols extend to out-of-hours arrangements.		
16.5.4	Nuclear Medicine - Technical Service Manual		
Indicator i	The practice maintains a nuclear medicine procedure manual which has been		
	established and is maintained by the nuclear medicine specialist/s.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	<ul> <li>This manual includes for each procedure performed by the practice:</li> <li>A summary of patient conditions that may affect the physician's interpretation of the nuclear medicine procedure.</li> <li>A description of instruments used and the control settings, and the technical and analytic steps followed in performing the procedure which complies with the requirements of the AANMS Standards.</li> <li>Reagents or other materials used in the test, including a listing of any special precautions for the use of such substances and any restrictions on the source of supply.</li> <li>Medical literature citations when appropriate for a more thorough understanding of the procedure.</li> <li>A description of any special quality assurance measures specific to a procedure.</li> <li>Instructions on any preliminary actions to be taken in case of deviation from acceptable limits before referring the problem to the nuclear medicine specialist.</li> <li>Examples of typical indications for performing procedure.</li> </ul>		
Indicator iii	This manual is reviewed biennially (every two years) by the nuclear medicine specialist.		
Indicator iv	Superseded procedures are clearly notated and are retained by the practice until such time as the retention period for reports relating to such procedures has expired.		
16.5.5	Modification to Procedures		
Indicator i	The Facility notates both the patient records and the consultation report (as determined by the nuclear medicine specialist's directions) for any examinations where procedures are modified.		
16.5.6	<b>Nuclear Medicine - Interpretation and Timeliness of Reporting of Results</b> Facilities shall comply with the reporting standards contained in the AANMS Standards.		

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Clause	Standard	QM Cross reference	Comments
Indicator i	The nuclear medicine specialist shall ensure that the provision of nuclear medicine		
	reports to requesting medical practitioners meets the requirements of the AANMS		
	Standards.		
Indicator ii	Rosters demonstrate that the nuclear medicine specialist complies with the		
	reporting requirements applicable to the jurisdiction of the Facility.		
Indicator iii	Contents of reports contain the requirements listed in the AANMS Standards.		
Indicator iv	Reports are generally provided to within 24 hours of the service being provided.		
Indicator v	Where there are clinically significant or urgent unexpected findings, verbal		
	communication of results is undertaken in a timeframe appropriate to allow timely		
	medical intervention where required.		
Indicator vi	Information about verbal communications is recorded at the facility, either in the		
	report or in the patient's notes, or in the facility's record for the patient, including		
	the name of the person with whom the results were discussed, and the date and		
	time of the verbal communication.		
16.6.1	Nuclear Medicine Facility Safety		
	Facilities shall comply with the standards for hazardous, toxic or biological		
	materials contained in the AANMS Standards and any current jurisdiction or		
Indicator i	Commonwealth regulatory requirements. All toxic, irritant or caustic chemicals are appropriately labelled, and personnel are		
	trained in use of such materials.		
Indicator ii	Suitable eye protection devices, impervious aprons and means for flushing		
indicator ii			
	materials from the skin or eyes rapidly in the event of accidental splashing are readily available in the practice.		
Indicator iii			
	Materials presenting a biological or other hazards are carefully handled and in accordance with a documented protocol to minimise risks to personnel and		
	patients.		
Indicator iv	Eating and drinking is prohibited in patient care and laboratory areas of the		
	practice.		
Indicator v	Noxious, toxic or volatile materials presenting a hazard of airborne transport are		
	handled in fume hoods providing adequate and safe venting to the atmosphere.		

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Clause	Standard	QM Cross reference	Comments
ndicator vi	Nuclear medicine waste materials are disposed of according to regulatory requirements.		
ndicator vii	Aseptic technique is used when penetrating patient skin.		
16.6.2	Nuclear Medicine - Radiation Safety           The facility shall comply with all applicable radiation safety regulations.		
ndicator i	All applicable radiation licenses pertaining to nuclear medicine are retained at the practice site.		
ndicator ii	Radiation safety policies and procedures contained in the practice's radiation safety manual specific to the practice's nuclear medicine services comply with all relevant radiation safety regulations, including notification of maladministration.		
ndicator iii	Personnel are trained in radiation safety techniques according to the manual and have periodic in-service reviews.		
ndicator iv	Facility records confirm that personnel are monitored by TLD badges (or other regulatory compliant dosimeters).		
ndicator v	Facility records demonstrate that a comprehensive program of radiation monitoring is followed and that radiation monitoring equipment is maintained and available for the detection of contamination and radiation exposure levels.		
ndicator vi	Procedures and resources have been implemented which ensure the correct handling of accidents involving radioactive materials and subsequent decontamination which complies with the relevant jurisdiction regulations.		
ndicator vii	A CTDI (milliGrays) and DLP (dose length product – milliGrays per centimetre) value for each CT component of a Gamma CT study is recorded and is available with the patient's images.		
ndicator viii	The Facility observes precautions for children, and pregnant and breastfeeding patients, including posting warning signs, a verbal enquiry by facility personnel at the time the patient attends for the service and the provision of special instructions to a patient as required.		
ndicator ix	The Facility undertakes dose calibration surveys with regular assessment of prescribed radiopharmaceutical do		
ndicator x	The Facility ensures that administered activity for diagnostic and therapeutic procedures complies (generally within +/- 10%) with what has been prescribed.		

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Clause	Standard	QM Cross reference	Comments
16.6.3	Radioisotopes – Preparation, Handling, Administration		
	Facilities performing NM services shall comply with the safety standards contained		
la dia ata n i	in the AANMS Standards.		
Indicator i	One month of the facility's records of radiopharmaceutical receipt, preparation and		
	disposition demonstrating that appropriate measures are maintained for		
	identification of radiation areas and the receipt, storage, and disposal of		
	radioactive substances.		
Indicator ii	Radioactive material dispensed for administration to patients is calculated		
	according to established protocols.		
Indicator iii	Facility ensures the radiopharmaceutical activity is measured and recorded either		
	in the patient's record or within the Facility's own reporting system.		
16.6.4	Blood Products		
	Facilities performing NM services shall comply with the standards regarding blood		
	products contained in the AANMS Standards.		
Indicator i	The facility performs labelling of blood or blood products in-house, and has		
	established a blood-labelling protocol which is adhered to by all applicable		
	personnel under the supervision of the NM specialist.		
Indicator ii	The service ensures the correct re-administration of the blood products to the		
	correct patient.		
Indicator iii	Blood products are prepared in aseptic conditions using at least a Class II		
	enclosed system.		
Indicator iv	Externally supplied blood and/or blood products are verified for:		
	a. patient identification upon receipt, and again immediately prior to		
	administration; and		
	b. radioactivity, with any discrepancy of more than 50% from the prescribed		
	activity for diagnostic procedures, shall be confirmed with the nuclear		
	medicine specialist/physician to administration.		
16.6.5	Handling of Biological Materials.		
Indicator i	The facility ensures that glassware contaminated with toxic or biologic materials is made safe as soon as practicable after use.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	Bench-tops and area surfaces subject to substantial contamination risk should be covered with disposable protective materials when feasible, which are discarded in a safe manner according to waste management protocols.		
Indicator iii	Appropriate care is exercised in handling sera and other materials.		
Indicator iv	Due care is taken to avoid uncontrolled release of any potentially infectious material.		
16.6.6	<b>Cardiopulmonary Resuscitation and Basic Life Support</b> All personnel involved in the provision of NM services shall be trained and retain competency in CPR services appropriate to the level of services provided by the facility.		
Indicator i	The Facility ensures that all personnel involved in the provision of nuclear medicine services can administer basic or advanced life support in accordance with ANZCOR guideline 8 or ARC guideline 11.1.		
16.6.7	Risks		
Indicator i	Written information and instructions is available to patients, and provides advice on precautions that they can take to minimise their radiation dose, in particular for therapeutic services (e.g. radioiodine or strontium therapy).		

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Clause	Standard	QM Cross reference	Comments
16.7.1	Nuclear Medicine Patient Records		
Indicator i	<ul> <li>The Facility ensures that the patient record identifies:</li> <li>Patient name, date of birth and unique identifier</li> <li>Name of the requesting medical practitioner</li> <li>Request date</li> <li>Name of the responsible nuclear medicine specialist</li> <li>The nuclear medicine service is performed as it is identified in the facility service manual, with notation and explanation of any special modifications of this service</li> <li>Type, activity, route and injection site for any radioactive or non-radioactive substances administered to the patient</li> <li>The name of the nuclear medicine technologist performing the service (where applicable)</li> <li>The date that the service was performed</li> <li>A description of findings of any services performed, with interpretive information including background information on the predictive value of the service or expected values on a reference population to inform referring practitioners</li> </ul>		
Indicator ii	<ul> <li>The Facility ensures that all nuclear medicine patient reports contain:</li> <li>Patient name, date of birth and unique identifier</li> <li>Name of the requesting medical practitioner</li> <li>Name and signature of the responsible nuclear medicine specialist</li> <li>The nuclear medicine service performed as it is identified in the facility service manual, with notation and explanation of any special modifications of this service</li> <li>The date and description of findings of any services performed, with interpretive information including background information on the predictive value of the service or expected values on a reference population to inform referring practitioners.</li> </ul>		

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Clause	Standard	QM Cross reference	Comments
17 ULTR	ASOUND		
17.1.1	<b>Equipment</b> The practice shall ensure that all of its ultrasound equipment is appropriate for its intended use, is regularly maintained and is serviced by manufacturer-certified service engineers.		
Indicator i	<ul> <li>Where the practice offers comprehensive ultrasound services (including general ultrasound, cardiac ultrasound, vascular ultrasound, urological ultrasound, obstetric and gynaecological ultrasound, and musculoskeletal ultrasound), it has equipment with following capability: <ul> <li>Colour Doppler including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>M-mode scanning</li> <li>Linear transducer of frequency 12 MHz or greater</li> <li>Linear transducer of frequency 7 MHz or greater</li> <li>Curved linear array transducer of frequency 2.5–5 MHz</li> </ul> </li> </ul>		
Indicator ii	<ul> <li>Where the practice offers general ultrasound services it has equipment with the following capability:</li> <li>Colour Doppler including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>Linear transducer of frequency 7 MHz or greater</li> <li>Curved linear array transducer of frequency 2.5–5 MHz</li> </ul>		
Indicator iii	<ul> <li>Where the practice offers cardiac ultrasound services it has equipment with the following capability:</li> <li>Colour Doppler including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>Continuous and pulsed-wave Doppler</li> <li>Linear transducer of frequency 2.5 MHz</li> <li>M-mode scanning</li> <li>2D scanning.</li> </ul>		

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Clause	Standard	QM Cross reference	Comments
Indicator iv	<ul> <li>Where the practice offers vascular ultrasound services it has equipment with the following capability:</li> <li>Colour Doppler including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>Linear transducer of frequency 7 MHz or greater</li> <li>Curved linear array transducer of frequency 5 MHz</li> </ul>		
Indicator v	<ul> <li>Where the practice offers urological ultrasound services it has equipment with the following capability:</li> <li>Colour Doppler including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>Curved linear array transducer of frequency 2.5–5 MHz Endorectal transducer.</li> </ul>		
Indicator vi	<ul> <li>Where the practice offers obstetric and gynaecological ultrasound services it has equipment with the following capability:</li> <li>Colour Doppler including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>M-mode scanning</li> <li>Curved linear array transducer of frequency 2.5–5 MHz</li> <li>Transvaginal transducer.</li> </ul>		

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Clause	Standard	QM Cross reference	Comments
Indicator vii	<ul> <li>Where the practice provides Musculoskeletal Ultrasound services it has equipment with the following capability</li> <li>Colour Doppler including power Doppler</li> <li>Linear transducer of frequency 12 MHz or greater</li> <li>Linear transducer of frequency 17 MHz or greater</li> <li>Where the Practice provides paediatric ultrasound services, it has equipment with the following capability:</li> <li>Colour Doppler, including power Doppler</li> <li>Spectral (pulsed) Doppler</li> <li>Linear transducer of frequency 7 MHz or greater</li> <li>Curved linear array transducer of frequency 5 MHz</li> <li>C8-5 curved array (tight convex) transducer</li> <li>C5-1 curved array transducer</li> </ul>		
	<ul> <li>C9-2 curved array transducer</li> <li>Small footprint high-frequency linear transducer (hockey stick).</li> </ul>		
Indicator ix	Monitors used for ultrasound examinations have a minimum colour/monochrome resolution of 1024 x 768.		
17.1.2	Equipment – Maintenance and Upgrades All ultrasound equipment is maintained appropriately and meets currently accepted specifications.		
Indicator i	The Practice maintains its ultrasound equipment according to the manufacturer's recommended maintenance and servicing guidelines; and only uses manufacturer-certified service engineers. A service history record is maintained		
Indicator ii	The practice regularly reviews the capability of its ultrasound equipment in consideration of available software and hardware upgrades, and meets any requirements of such upgrades when they occur.		
Indicator iii	It ensures that ultrasound equipment (hardware and software) is not more than 10 years old, or 15 years if the equipment has been significantly upgraded with appropriate software, such that the software is equivalent to that of a machine less that 10 years old.		

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Clause	Standard	QM Cross reference	Comments
17.2.1	Qualifications – Sonographer The practice shall ensure that its sonographers are appropriately qualified and accredited.		
Indicator i	The practice ensures that its sonographers hold current ASAR membership.		
Indicator ii	n/a NZ reference		
Indicator iii	It holds a copy of the current annual ASAR membership receipt for each of its sonographers.		
Indicator iv	It can demonstrate that each of its sonographers follows the ASA Code of Conduct.		
17.2.2	Qualifications – Student Sonographers The practice shall ensure that its student sonographers are appropriately qualified and accredited.		
Indicator i	The practice ensures that its student sonographers hold current ASAR membership.		
Indicator ii	n/a NZ reference		
Indicator iii	It holds a copy of the current annual ASAR membership receipt for each student sonographer.		
Indicator iv	It can demonstrate that each of its student sonographers follows the ASA Code of Conduct.		
17.2.3	<b>CPD – Radiologists</b> The radiologist providing ultrasound services shall participate in ultrasound specific CPD.		
Indicator i	The radiologists providing the practice's ultrasound services can demonstrate evidence of ongoing continuing professional development activity specific to the range of ultrasound services they provide.		
17.2.4	<b>CPD</b> – Sonographers and Student Sonographers The practice shall ensure that its sonographers and student sonographers comply with the requirements of an ASAR approved CPD program.		
Indicator i	The practice ensures that its sonographers and student sonographers hold current ASAR membership.		

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Clause	Standard	QM Cross reference	Comments
17.3.1	<b>Student Sonographers</b> All student sonographers must have on-site supervision by a radiologist or a sonographer accredited by ASAR in the relevant field/s of practice at all times.		
Indicator i	The practice ensures that its professional supervision arrangements provide for on-site supervision of student sonographers by either the radiologist or an ASAR- accredited sonographer so delegated by the radiologist.		
Indicator ii	It ensures that supervising sonographers are accredited by the ASAR in the fields of practice in which they are supervising.		
17.3.2	<b>Sonographers Performing Ultrasound Examinations in Remote Locations</b> Sonographers performing ultrasound examinations in rural and remote locations shall have appropriate professional supervision and clinical guidance from the reporting radiologist.		
Indicator i	The practice meets the criteria for 'rural and remote' status for Medicare.		
Indicator ii	The sonographer meets the requirements under items 17.2.1 and 17.2.4 in these standards.		
Indicator iii	<ul> <li>Where a student sonographer is performing these examinations, he/she meets the requirements under items 17.2.2 and 17.2.4 in these standards and has either:</li> <li>a. completed one year of directly supervised training that has included the full scope of ultrasound examinations which he/she is performing at the practice; OR</li> <li>b. the reporting radiologist has determined that the student sonographer has completed sufficient training and obtained sufficient practical experience under direct supervision to perform a defined range of ultrasound examinations under remote supervision protocols as per Indicator v under this standard.</li> </ul>		
Indicator iv	During the conduct of each ultrasound examination the radiologist is readily contactable to discuss the procedure with the sonographer or student sonographer and influence the examination.		
Indicator v	The practice ensures that this clinical supervision is supported through on-site supervision and/or teleradiology and/or internet access and/or telephone support, as is determined by the reporting radiologist.		

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Clause	Standard	QM Cross reference	Comments
Indicator vi	The practice ensures that professional supervision arrangements for student		
	sonographers in remote locations are consistent with those for qualified		
	sonographers, but that it is exercised during the course of an examination so that		
	appropriate imaging, decision making and review can be made at the time of the examination.		
Indicator vii	This supervision of student sonographers is supported by the additional resource		
	of an ASAR accredited sonographer who provides guidance to the student		
	sonographer through on-site supervision and/or teleradiology and/or internet		
	access and/or telephone support, as determined by the reporting radiologist.		
Indicator viii	The practice conducts regular (at least annual) reviews of the quality of the remote		
	ultrasound examinations in order to confirm that the supervision arrangements of		
	these services do not compromise patient care.		
17.3.3	Ultrasound Review of Appropriateness of Request		
	The radiologist shall be readily contactable to discuss and if necessary, alter the		
	conduct of the imaging examination in consideration of the examination request.		
Indicator i	The practice's professional supervision arrangements ensure the provision of		
	clinically directed scanning and appropriate triaging for all ultrasound services.		
Indicator ii	Within these arrangements the radiologist has implemented and ensures		
	adherence to appropriate written protocols to be followed by members of the		
	imaging team for this component of the imaging service.		
Indicator iii	The professional supervision arrangements recognise that a radiologist may need		
	to personally attend the patient in order to examine the patient prior to an		
	ultrasound examination proceeding in order to determine the optimum imaging		
	pathway for the patient.		
17.3.4	Performance of Ultrasound Examinations		
	Ultrasound scanning of the patient shall be performed by the radiologist, the sonographer acting on behalf of the radiologist, or the radiologist and sonographer in collaboration.		
Indicator i	The radiologist has implemented a system for communication with the		
	sonographer. This communication may be verbal and/or by sonographer work		
	sheets and/or annotated images.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	The practice's professional supervision protocols and rostering for ultrasound examinations ensure that the radiologist is available and contactable and if necessary, is available to personally attend the patient, to influence and/or alter the conduct of the examination.		
Indicator iii	The practice has protocols in place that set out the criteria for which findings trigger the scan being brought to the attention of the radiologist while the patient is on site.		
Indicator iv	<ul> <li>The Practice ensures that its clinical radiologists providing ultrasound services are responsible for determining:</li> <li>How much of an ultrasound examination should be shown and demonstrated to a patient</li> <li>•What examination information can be independently passed on to a patient by the sonographer</li> </ul>		
Indicator v	The Practice ensures that its clinical radiologist and sonographer have read, understood and adhere to Standard 8 when providing teleradiology services		
17.3.5	Ultrasound Interpretation and Reporting of Results The responsibility for the conduct of the study and the production of the report lies with the radiologist. The radiologist's report shall draw upon all the available information, which may include communication with the sonographer, reviewing the sonographer's images, attending the patient to talk to, examine or scan the patient and/or observing the sonographer scan in real time. The sonographer's worksheet is primarily a communication medium between the sonographer and clinical radiologist, and contributes to the final report produced by the sonologist. Part, or all, of the sheet may be incorporated into the clinical radiologist's report at the radiologist's discretion. The worksheet does not constitute a report, and the clinical radiologist's report may differ from the content of the worksheet. It is expected that all sonographer worksheets will be appropriately stored and filed with the request form.		
Indicator i	The report issued to referring clinician contains relevant clinical details and ultrasound findings and draws conclusions pertinent to the patient and the clinical indicators for the study and complies with the Clinical Radiology Written Report Guideline.		

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Clause	Standard	QM Cross reference	Comments
Indicator ii	The Practice can demonstrate that the request form and the sonographer worksheet are appropriately stored in the patient's electronic medical records.		
Indicator iii	The practice ensures that when a sonographer is involved in performing an ultrasound examination, the sonographer's initial and surname is included in the record of the examination held by the practice.		
17.4.1	Ultrasound Safety The practice shall ensure that it meets all safety requirements for the ultrasound services it provides.		
Indicator i	The practice ensures that sonographers and radiologists working at the site are aware of the potential thermal and mechanical bio-effects of ultrasound and that they meet the requirements set out in the BMUS Guidelines for the safe use of diagnostic ultrasound equipment.		
Indicator ii	The practice ensures that sonographers and sonologists working at the site meet the safety requirements set out in the WFUMB Policy and Statements on Safety of Ultrasound for the safe use of diagnostic ultrasound equipment.		
Indicator iii	It meets all regulatory requirements in relation to ultrasound safety.		
Indicator iv	The practice ensures it provides a safe working environment for sonographers and sonologists and meets recommendations contained in ASA and ASUM joint guidelines for reducing injuries to sonographers/sonologists.		
17.4.2	Ultrasound – Infection Control The Practice holds a readily accessible copy of the ASUM/ACIPC Guidelines for Reprocessing Ultrasound Transducers and adheres to the protocols outlined. The Practice adheres to the infection control protocols for the environment in which a patient is being examined.		
Indicator i	The Practice ensures that sonographers and radiologists are familiar with the contents of this guideline.		
Indicator ii	The Practice ensures that the use of solutions for sterilising and cleaning endocavity transducers complies with the relevant jurisdiction's occupational health and safety regulations		
Indicator iii	The Practice ensures it maintains a record of their Infection Control activity regarding transducers.		

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Clause	Standard	QM Cross reference	Comments
Indicator iv	The Practice meets regulatory requirements in relation to the hygiene of the		
	scanning environment.		

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