**Supervision assessment report four (4): diagnostic radiography**

The quarterly reports submitted during the supervised practice program will contribute to the assessment of the practitioner’s application for general registration with the Medical Radiation Practice Board of Australia.

The Principal supervisor must discuss the assessment with the supervised practitioner prior to submitting.

It is important that the Principal supervisor refers to the Board’s *Supervised practice registration standard* and the *Supervised practice program guide* before completing assessment reports.

These documents can be found at [www.medicalradiationpracticeboard.gov.au](http://www.medicalradiationpracticeboard.gov.au)

It is expected that by the end of the fourth assessment period that the supervised practitioner has satisfactorily demonstrated all of the Professional Capabilities for medical radiation practice.

**Please submit this form.**

This assessment form must be sent to mrpsupervisedpractice@ahpra.gov.au

**Name of supervised practitioner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Registration number: MRP \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name of principal supervisor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Registration number: MRP \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date of report: \_\_\_\_\_\_ / \_\_\_\_\_\_\_ / 20\_\_\_\_\_\_**

**Total weeks completed in program: \_\_\_\_\_\_\_**

**No of weeks worked during reporting period (**usually 12weeks**): \_\_\_\_\_\_\_\_ Leave taken** \_\_\_\_\_ week/s

**Professional capabilities for medical radiation practice**

**Key capabilities – what registered medical radiation practitioners must be able to do**

The key capabilities describe the key features of safe and competent practice in a range of contexts and situations of varied complexity and uncertainty. During any one procedure or treatment, practitioners are expected to demonstrate key capabilities from various domains. This recognises that competent professional practice is more than a sum of each discrete part and requires an ability to draw on and integrate the breadth of capabilities to support overall performance.

**Enabling components – evidence of the key capabilities for general registration as a medical radiation practitioner**

The enabling components describe the essential and measurable characteristics of the corresponding key capabilities and facilitate assessment of performance in the practice setting. Medical radiation practitioners must be able to demonstrate all enabling components for all key capabilities for safe and competent practice. This includes applying, adapting and synthesising new knowledge from experience to continually improve performance.

The enabling components include different ways of demonstrating capability:

* **Apply knowledge / principles of:** indicates a practitioner is expected to apply detailed knowledge in the practice setting.
* **Understand** indicates a practitioner is expected to apply broad knowledge and understanding of information for safe practice, however may not need to understand or interpret detailed information or may not need to use their knowledge and understanding to perform certain procedures.
* **Performance e.g. ‘perform’, ‘identify’, ‘respond’ and/or ‘operate’** are used for the majority of enabling components **–** these are abilities needed in the practice setting.

**Definitions**

Capable

Professional capability is the ability to take appropriate and effective action to formulate and solve problems in both familiar and unfamiliar, complex and changing settings. Professional capability develops over time and must be demonstrated to the standard of performance needed in the workplace.

Prior to completion of the supervised practice program a supervised practitioner must have demonstrated all of the key capabilities, including those relevant for the division of diagnostic radiography (not including MRI or US except where they form part of the supervised practitioner’s practice)

A supervised practitioner may demonstrate capability (all of the enabling components) at any time during the program, including the early stages of the program.

For a supervised practitioner to be assessed as capable they must:

* demonstrate the capability according to the relevant descriptor (*apply, understand, perform* etc)
* consistently demonstrate all of the enabling components of capability at the standard required for safe and effective practice
* accept responsibility and are accountable for their practice, including managing individual patients within the supervisor's general oversight, and
* use their professional judgement, decision-making skills and experiential learning to apply their scientific knowledge, practical skills and ability in any given situation.

Not yet capable

The supervised practitioner has not demonstrated capability or has otherwise demonstrated limited progression since the third report.

The Principal supervisor should contact Ahpra when they anticipate that the supervised practitioner will not be assessed as being capable by the end of the 4th assessment period.

It is recognised that in rare circumstances a supervised practitioner may take longer than the usual 48 weeks of supervised practice to demonstrate all of the Professional capabilities. However, it is incumbent upon the Principal supervisor to raise concerns about a supervised practitioner’s progress in a timely way so that remedial actions can be put in place before the end of the 4th assessment period.

Not assessed

This option is only available for the practice areas of MRI and ultrasound.

Selecting this option means that while there may have been some exposure or experience in MRI and / or ultrasound throughout the program of supervised practice, the supervised practitioner has not been assessed for independent practice in MRI and/or ultrasound.

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**Domain 1: Medical radiation practitioner:**

* 1. Apply knowledge of anatomy, physiology and pathology to practice.
	2. Use clinical information management systems appropriately.
	3. Understand and apply the different methods of imaging and treatment.
	4. Confirm the procedure according to clinical indicators.
	5. Assess the patient’s capacity to receive care.
	6. Implement techniques for patient stabilisation and reproducibility of procedures and outcomes.
	7. Deliver patient care, including
* Recognise patients/clients whose condition is deteriorating, or who are unable to undergo an examination/treatment and respond to their needs in an appropriate and timely way consistent with standards of safe and high-quality care. This includes calling for emergency help when needed.
* Apply quality criteria to assure image quality, evaluate medical images and identify any urgent and/or unexpected findings.
* If the practitioner identifies any urgent or unexpected findings, take appropriate and timely action to ensure the immediate management of the patient/client.
	1. Apply knowledge of safe and effective use of medicines.

**Contrast agents and other medicines**

Some examinations and treatments include the use of contrast agents and/or other medicines.

The safe use of contrast agents and/or other medicines used in connection with examinations or treatments must be assessed against the enabling components of Domain 1, Key capability 8 - Apply knowledge of safe and effective use of medicines.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**1A: Practice in diagnostic radiography**

1. **Perform projection radiography examinations in a range of settings**
2. Operate projection radiography systems safely and effectively in a range of settings.
3. Prepare the patient for the examination, including positioning the patient for the best diagnostic outcome.
4. Use standard radiographic projections and exposure factors for the patient’s body area being examined and, when appropriate, modify them to consider patient presentation, clinical indications and mechanisms of injury.
5. Select appropriate equipment, receptor type and set equipment geometry for the examination.
6. Perform image post-processing techniques.
7. Critically evaluate images against radiographic criteria including assessment of exposure index, field of view and anatomical rotation.

**Patient presentation setting/s experienced:**

[ ]  General [ ]  Emergency [ ]  Mobile [ ]  Paediatric [ ]  Other please specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**1A: Practice in diagnostic radiography**

1. **Perform fluoroscopy and angiography examinations in a range of settings.**
2. Operate fluoroscopy and angiography systems safety and effectively in a range of settings.
3. Effectively communicate with the multidisciplinary team as the imaging request, patient history and previous medical images are reviewed, the patient is assessed to receive care and the procedure is planned.
4. Prepare the patient for the examination, including positioning the patient for the best diagnostic outcome.
5. Apply knowledge of equipment geometry for procedures.
6. Apply knowledge of imaging acquisition modes and radiation dose rates.
7. Perform image post-processing techniques
8. Prepare the patient and delivery systems with the appropriate contrast media using aseptic techniques.
9. Apply knowledge of medical equipment and prostheses used in the angiography and operating theatre setting.
10. Collaborate in the design and evaluation of fluoroscopy and angiography protocols.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**1A: Practice in diagnostic radiography**

1. **Perform computed tomography (CT) imaging**
2. Operate CT systems safely and effectively.
3. Apply appropriate imaging parameters for the patient presentation.
4. Adjust relative radiation dose levels based on the range of patient presentations.
5. Collaborate in the design and evaluation of CT protocols.
6. Perform and evaluate contrast and non-contrast CT examinations of the body and, when appropriate, modify them to consider patient presentation and clinical indications.
7. Process data image sets, including multi-planar reformats and volume imaging.

**Contrast agents and other medicines**

CT includes contrast-enhanced studies and the safe and appropriate selection of CT contrast agents for the patient presentation.

The safe use of contrast agents and/or any other medicines used in connection with CT examinations must be assessed under Domain 1, Key capability 8 - Apply knowledge of safe and effective use of medicines.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Domain 2: Professional and ethical practitioner**

* 1. Practise in an ethical and professional manner, consistent with relevant legislation and regulatory requirements.
	2. Provide each patient with dignity and care
* Cultural competency is the acknowledgment of the importance of culture, the assessment of cross-cultural relations, vigilance of the dynamics that may result from cultural differences, expansion of cultural knowledge and adapting services to meet culturally-unique needs
* Cultural safety is the individual (and institutional) knowledge, skills, attitudes and competencies needed to deliver optimal health care for Aboriginal and Torres Strait Islander Peoples as determined by Aboriginal and Torres Strait Islander individuals, families and communities.
	1. Take responsibility and accountability for professional decisions.
	2. Advocate on behalf of the patient when appropriate.
	3. Seek (supports) opportunities to progress the profession.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Domain 3: Communicator and collaborator**

* 1. Communicate clearly, sensitively and effectively with the patient and their family or carers.
	2. Collaborate with other health practitioners.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Domain 4: Evidence-informed practitioner**

* 1. Resolve challenges through application of critical thinking and reflective practice.
	2. Identify ongoing professional learning needs and opportunities.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Domain 5: Radiation safety and risk manager**

* 1. Perform and provide safe radiation practice.
	2. Protect and enhance patient safety
	3. Implement quality assurance processes imaging or treating patients
	4. Maintain safety of the workplace and associated environments

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)**

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Assessable capabilities if magnetic resonance imaging (MRI) forms part of a supervised practitioner’s practice**

The following enabling components cover the knowledge, skills and attributes needed by all medical radiation practitioners who use MRI as part of their practice. Meeting the capability requirements ensures that practitioners who use MRI are capable of providing safe, quality, patient-centred care.

**Perform magnetic resonance imaging (MRI).**

1. Operate MRI systems safely and effectively.
2. Apply knowledge of the principles of MRI physics and surrounding environment to ensure patient and others’ safety.
3. Select equipment and imaging parameters relevant to the patient presentation and where appropriate, modify imaging parameters to achieve optimal diagnostic outcomes.
4. Collaborate in the design and evaluation of MRI protocols.
5. Perform and evaluate MRI examinations where appropriate, modify the examination according to the MRI findings and clinical presentation.
6. Process image data sets.

**Contrast agents and other medicines**

MRI includes contrast-enhanced studies and the safe and appropriate selection of MRI contrast agents for the patient presentation.

The safe use of contrast agents and/or any other medicines used in connection with MRI examinations must be assessed under Domain 1, Key capability 8 - Apply knowledge of safe and effective use of medicines.

**MRI safety**

As part of assessment a supervised practitioner must consistently apply the knowledge and principles of MRI safety in performance of MRI examinations.

MRI safety includes but is not limited to:

* maintaining the integrity of MRI safety zones
* applying principles of electro-magnetic forces and fields (static and gradient and radiofrequency)
* minimising the bioeffects of magnetic fields (including tissue heating and peripheral nerve stimulation)
* exposure limits (including specific absorption rates)
* assessing and managing risks associated with devices/implants/projectiles, acoustic risks, and
* implementing emergency procedures in the event of quench or the distressed and/or deteriorating patient.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)** [ ]  Not assessed

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Assessable capabilities if ultrasound (US) forms part of a supervised practitioner’s practice**

The following enabling components cover the knowledge, skills and attributes needed by all medical radiation practitioners who use ultrasound (US) as part of their practice. Meeting the capability requirements ensures that practitioners who use ultrasound are capable of providing safe, quality, patient-centred care.

**Perform ultrasound imaging**

1. Operate ultrasound imaging systems safely and effectively.
2. Apply knowledge of the principles of ultrasound physics to minimise the likelihood of biological effects and identification of artefacts.
3. Apply knowledge of cross-sectional anatomy, embryology, pathophysiology, haemodynamic and sonographic appearances of normal and abnormal anatomy.
4. Use standard techniques/images and equipment for the body area being examined and, where appropriate, modify them to consider the patient presentation and clinical indications.
5. Perform and evaluate ultrasound imaging and where appropriate, extend or modify the examination according to the sonographic findings and clinical presentation.
6. Document the real-time examination and evaluate findings.

**Ultrasound imaging systems** must include 2D, Doppler and may include contrast and 3D where appropriate.

**Ultrasound physics** includes transducer design and operation, identification of artefacts and understanding of the biological effects of ultrasound.

**Documenting the real-time examination** must follow organisational protocols and still images/cine loops must accurately represent any pathology present or absent.

**Assessment:**

[ ]  Capable [ ]  Not yet capable(**provide details below)** [ ]  Not assessed

Detail the reasons for assessment: include details of the specific practice areas within the domain and why the practitioner has not yet demonstrated capability?

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Is an additional period of supervised practice recommended for the practitioner to demonstrate they are capable of safe independent practice? Provide details of practice areas to be addressed and expected timeframe.

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**Overall assessment**

**If limited or no progress**

Reasons for assessment: what practice areas need to be addressed?

What changes to the supervision plan are needed for the practitioner to make sufficient progress over the next supervision period?

1. Is the supervised practitioner considered capable of safe, independent practice in all areas of medical radiation practice within their division of registration?

 [ ]  Yes (go to Q2)

 [ ]  No (Go to Q3)

1. Have you discussed this supervision assessment report with the supervised practitioner and do they agree with the recommendation?

 [ ]  Yes

 [ ]  No (you must discuss the report before submitting)

Additional supervised practice

1. If practitioner is not yet capable, is an additional period of supervised practice recommended?

 [ ]  Yes (provide details below)

 [ ]  No (provide details below)

Please provide details of the areas of practice and additional time required

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Please provide details of the reasons an extension is NOT recommended

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1. If an extension of supervised practice is required, how many weeks extension do you recommend?

\_\_\_\_\_\_ Week/s *(please provide an updated supervision plan)*

1. You must discuss this report and its recommendations with the supervised practitioner.
2. Does the supervised practitioner agree to the recommendations?

 [ ]  Yes [ ]  No (the supervised practitioner must outline their reasons below)

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