



QUEENSLAND UNIVERSITY OF TECHNOLOGY
DISCIPLINE OF MEDICAL RADIATION SCIENCES

To the Primary Clinical Supervisor,

You have been nominated as the Primary Clinical Supervisor for a student who has applied for entry into the Graduate Diploma in Cardiac Ultrasound (CS61).

As a Clinical Supervisor, you will be required to act as a mentor for the student and to fulfil the roles and responsibilities as outlined in subsequent pages. A Secondary Clinical Supervisor may also be nominated and can be beneficial for periods of leave for the Primary Clinical Supervisor or when a student works across two sites.

Please note that all Clinical Supervisors must be:

- An Accredited Medical Sonographer (Cardiac) as recognised by the ASAR with a minimum of 2 years post-graduate experience **or**
- A Cardiologist with extensive experience and interest in cardiac ultrasound **or**
- A Radiologist or Specialist Physician with extensive experience, and demonstrated continuing education, in the field of cardiac ultrasound.

New enrolments must include a completed Clinical Supervisor Form with their application.

Yours sincerely,

Ruth Ramm

Course Coordinator – CS61 Grad Dip in Cardiac Ultrasound

Email: r.ramm@qut.edu.au

Requirements of Clinical Departments and Clinical Supervisors

Equipment

Mandatory: ultrasound equipment must have the following:

- Phased array transducer(s) with multifrequency capability
- Non-imaging continuous-wave Doppler transducer
- High, 2D image resolution capability
- M-mode
- Spectral and colour flow Doppler capability
- Harmonic imaging
- Doppler tissue imaging & LV Strain capabilities
- ECG monitoring capability

Desirable: it is desirable that ultrasound equipment have the following:

- Respirometer monitoring capability

Additional: Students are required to submit their case studies as digital studies. Therefore, a mechanism for copying digital studies (DICOM format) is also necessary. It should be noted that images submitted may potentially be used for teaching purposes within QUT and at other educational echocardiographic meetings. This would only relate to measurement technique and image optimisation (not pathologies). If images from this study are used for this purpose, all images will be de-identified and no indication of the origin of the images [student who performed the study or practice where the study was performed] will be discernible.

Workload

Mandatory: For students to be able to meet the clinical requirements of this program (conducted over a 2-year time frame), they are required to be working in clinical cardiac ultrasound for approximately 3 days per week (~38hrs per fortnight) (minus standard leave privileges) throughout the duration of the course. Students are required to perform a minimum of 15 - 20 echo examinations per week. **Entry into the course is conditional on this requirement.**

- In order for the student to satisfactorily complete the Clinical Attachment units, they must achieve a satisfactory level of clinical competence; hence, the clinical experience of the student **MUST** be hands-on and not just observation.

Desirable: To allow continuity of experience, it is desirable that the student be working in one department for the majority of clinical experience. It is also desirable that the student is working in a practice which is exposed to a wide variety of cardiac disease processes.

Clinical Supervisors

The Clinical Supervisor must be:

1. An Accredited Medical Sonographer (Cardiac) as recognized by the ASAR with a minimum 2 years' post-graduate experience **or**
 2. A Cardiologist with extensive experience and interest in cardiac ultrasound **or**
 3. A Radiologist or Specialist Physician with extensive experience, and demonstrated continuing education, in the field of cardiac ultrasound
- The primary role of the clinical supervisor is to act as a mentor of the student; hence, it is crucial that the supervisor be on-site for the majority of the student's clinical experience.
 - For students in remote areas, it is recognised that on-site supervision is not always possible. In this circumstance, the clinical supervisor must be able to be easily contacted to discuss the examination with the student. In addition, these students are encouraged to spend 1-2 weeks at the institution where the clinical supervisor is on-site in order to receive one-on-one, face-to-face feedback and support.
 - The roles and responsibilities of the clinical supervisor include:
 - To ensure that the student has adequate clinical experience and exposure to a variety of clinical cases
 - To ensure that the student maintains an adequate standard of scanning *
 - To be available to assist the student when confronted with technical difficulties
 - To be available to instruct the student regarding more complex haemodynamic calculations
 - To provide feedback regarding the completeness of the examination, accuracy of measurements and calculations, and the diagnostic value of the examination
 - To encourage and help develop the student's communications skills, both written and verbal
 - To ensure that the student is aware of patient needs and provides appropriate patient care
 - To ensure that the student is aware of, and practices, universal infection control practices
 - The ability to verify records presented in the Clinical Portfolio
 - To provide written assessments of student performance *

* Students are required to perform various echo measurements as part of this course. In particular, students may be required to perform some measurements that may not be performed routinely at your institution (for example, biplane left atrial volumes, Simpson's ejection fraction, DTI of the septal and medial annulus, RV measurements). As the clinical supervisor, you will be required to assess the performance accuracy of these measurements. For further information about these measurements and techniques, please refer to the following ASE articles which can be downloaded for free from the following web site:

<http://asecho.org/ase-guidelines-by-publication-date/>

QUT Graduate Diploma in Cardiac Ultrasound

CLINICAL SUPERVISOR FORM

Student's Name:

Primary Clinical Supervisor Details:

Name:

Email:

Relevant Qualifications:

If Clinical Supervisor is a sonographer, please provide

- ASAR / MRTB Registry No.:
- Year cardiac ultrasound qualification obtained:

Continuing Professional Education relating to cardiac ultrasound attended in the ***past 2 years***

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Secondary Clinical Supervisor Details (optional):

Name:

Email:

Relevant Qualifications:

If Clinical Supervisor is a sonographer, please provide

- ASAR Registry No. :
- Year cardiac ultrasound qualification obtained:

Continuing Professional Education relating to cardiac ultrasound attended in the ***past 2 years***

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Name and Address of Clinical Practice:

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Ultrasound Equipment:

Ultrasound Machine Make: Model:

This ultrasound equipment **must** include the following capabilities (please tick appropriate boxes):

Multifrequency Phased array transducers		Harmonic imaging		Doppler tissue imaging & LV Strain capabilities	
ECG monitoring		Digital storage		Non-imaging CW Doppler (PEDOF) transducer	

Primary Clinical Supervisor Roles and Responsibilities: (Please tick appropriate boxes to confirm your understanding of your roles and responsibilities to the student undertaking this course as well as the potential use of images for teaching purposes)

	I have read the roles and responsibilities of the Clinical Supervisor and I am willing to comply with these roles and responsibilities.
	I hereby verify that the student has completed / will complete 450 hours of supervised, hands-on experience in cardiac ultrasound prior to the commencement of the course.
	Every reasonable attempt will be made to ensure that the student is rostered in cardiac ultrasound for a minimum of 3 days per week (minus standard leave privileges) so that they can complete a minimum of 15-20 echo studies per week . <u>(NB: entry into the course is conditional on this requirement being met).</u>
	I agree to allow the potential use of de-identified images submitted by the student for their assignments to be used for the express purpose of teaching within QUT and at other educational echocardiographic meetings. (NB: does not include pathological images, only images related to measurements and image optimisation).

Primary Supervisor's Signature: _____

Date: _____

Secondary Supervisor's Signature: _____

Date: _____

Student's Signature: _____