



New Zealand  
**Anaesthetic Technicians'**  
Society

Presents

# Essential POCUS for Techs



Join us for a day of point-of-care ultrasound to update and learn new skills with an emphasis on the practical aspects.

**When:** Saturday 10 April 2021

**Where:** The Cordis Hotel, Auckland

**Time:** 8.30am - 1pm

**RSVP:** [Matthew.Lawrence@northlanddhb.org.nz](mailto:Matthew.Lawrence@northlanddhb.org.nz)

In conjunction with

**FUJIFILM** **SONOSITE**  
Value from Innovation

Be quick -  
limited places  
available!

[sonosite.com](http://sonosite.com)

Any patient. Anywhere. Anytime.



New Zealand  
**Anaesthetic Technicians'**  
**Society**

Presents

# Essential POCUS for Techs

## Registration Form

Name \_\_\_\_\_

Email \_\_\_\_\_

Phone No. \_\_\_\_\_

Hospital \_\_\_\_\_

Position \_\_\_\_\_

Dietary Requirements \_\_\_\_\_

**NZATS Member**    **Y/N**    (please circle)

Members free

Non-member Fee: \$50.00

Bank transfer to

Account name: NZATS Inc.

Account No: 03 0726 0649992 001

Please return completed form to

[Matthew.Lawrence@northlanddhb.org.nz](mailto:Matthew.Lawrence@northlanddhb.org.nz)

Potential learning outcomes addressed should not be construed as a complete and exhaustive list as it is not the intention to limit in any way the scope or functions of this course.

## **Presentation (TBC)**

Dr – Anaesthetist (TBC)

## **Workshop One**

### **Vascular Access Scanning**

- Understand the ultrasound system and setup and probe selection
- Selection of appropriate linear transducer
- Selection of appropriate exam setting
- Identify depth markers
- Determination of appropriate use of gain
- Describe Autogain and when it should be used
- Understanding of the green dot on the screen and its significance to the probe
- What is the importance of the gel
- Be able to identify skin, subcutaneous fat, muscles, vessels and nerves
- Show pulsations of the artery and compression of the vein
- Describe the terms hyperechoic, hyoechoic and anaechoic structures
- Image vessels in the sagittal plane
- Image vessels in the transverse scan plane
- Show good hand position on the transducer

## **Workshop Two**

### **Neck Scanning**

- As above adding the following
- Describe patient positioning for neck access
- Selection of appropriate exam setting
- Understand the landmarks and anatomical relationships as they relate to the vasculature of the neck
- Apply principles to reduce common artefacts and improvement of a high quality image

## **Workshop Three**

### **Probe understanding and selection**

Many types of medical ultrasound transducers are used in clinical practice. They operate at different centre frequencies, have different physical dimensions, footprints, and shapes, and provide different image formats. However, little information is available about which transducers are most appropriate for a given application.

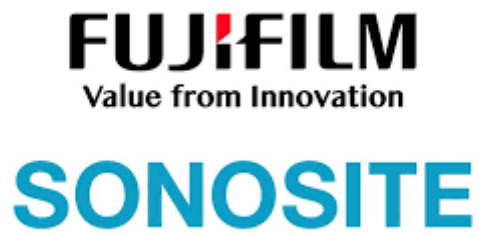
- Understanding of type of probe to be used
- Understanding of the Hz of the probe for depth recognition
- Maximum scan depth
- Coverage of region of interest
- Understanding Linear, Curved and Phased
- Understanding artifacts relating to image quality

## **Workshop Four**

### **Sonosite Institute**

- Web-based learning direct from Sonosite
- Logging into website and setup
- Run through of content and availability of courses
- Individually run through a course of choice
- Watch pre-set videos and observe new techniques for the workplace

Support for this course comes from



### **Programme of the day**

<b>0830</b>	<b>Welcome/Introductions/Housekeeping</b>
<b>0845</b>	<b>Presentation (TBC)</b>
<b>0900</b>	<b>Workshop Round One</b>
<b>0935</b>	<b>Workshop Round Two</b>
<b>1010</b>	<b>Morning Tea</b>
<b>1040</b>	<b>Workshop Round Three</b>
<b>1115</b>	<b>Workshop Round Four</b>
<b>1150</b>	<b>Reinforcement Quiz</b>
<b>1230</b>	<b>Wrap of Day</b>
<b>1245</b>	<b>Finish</b>