Our Mission:

In today’s competitive and dynamic healthcare climate, it is critical to use your medical imaging systems to their fullest potential to tackle some of the most challenging clinical assessments. At Philips, we believe robust and diverse clinical education is a key part of streamlining medical management in the point of care setting. It is vital that clinicians stay current on the latest clinical procedures and technologies, trained by their peers to perform clinically relevant point of care ultrasound examinations.

With that in mind, this course is designed to support clinical excellence, increase experience across the entire spectrum of point of care ultrasonography (ultramobile to premium platforms), instill confidence in the quality of exams, enhance workflow and productivity, and foster professional growth and teamwork – ultimately, to deliver outstanding patient outcomes. We accomplish this by providing you with the chance to train in the setting of your choice with renowned POCUS advocates and educators on the topics relevant to your clinical practice.
POCUS UNIVERSITY (POC 300)

Sara Nikravan, M.D.
Cardiothoracic Anesthesiology
Critical Care Medicine
Virginia Mason Medical Center

Jose L. Diaz-Gomez M.D., FCCM, FASE
Critical Care Medicine Consultant
South Florida Critical Care Services

“The Point of Care Ultrasound University provides not only an introduction to point of care ultrasound but the opportunity for advanced application and meaningful integration of these skills into ones practice so as to move beyond differentials towards diagnoses, allowing for a more targeted approach in caring for acutely ill patients.” – Dr. Nikravan

"Point of Care Ultrasound University offers rigorous instruction in multi-system integrated ultrasonography for management of critically ill patients. The program enables the learner to become a “contemporary” critical care, anesthesiology, or emergency medicine provider.”–Dr. Diaz-Gomez

**Course Description:**
Philips is privileged to present you the opportunity to train with Dr. Jose Diaz-Gomez or Dr. Sara Nikravan, who are internationally known leaders in the field of POCUS advocacy and evidence based education. Over the decades of their practice, they have educated thousands of clinicians on the use of point-of-care ultrasound. They have expertise in a large portfolio of topics and are able to deliver customized didactic and hands-on education to you and your colleagues.

Philips recognizes that every clinical practice is unique and the need for tailored education to address a wide range of clinical challenges. With this in mind this course has been designed to present customized educational experience based on your particular needs from a portfolio of over 25 topics related to advanced application and interpretation of POCUS. Choose up to 4 topics and we will deliver high quality interactive education, convenient to your site, with a world class POCUS educator, and supported by Philips Clinical Service Specialists and equipment.

**Course objectives:**
Upon completion of this course, the learner should be able to:

- Develop crucial cognitive and technical skills for faster and more reliable image acquisition in critically ill patients.
- Adapt POCUS-driven algorithms based on integrated echocardiography and lung ultrasound for cardiocirculatory and respiratory instability in your own scope of practice.
- Develop technical skills for real-time ultrasound-guided procedures (thoracentesis, pericardiocentesis, paracentesis, vascular access).

**Course objectives:**
- Acknowledge interchangeable principles and the complementary role of transthoracic and transthesophageal echocardiography in the critical care setting.
- Understand the evolution from being a POCUS learner to a skilled ultrasonography practitioner.

**Locations**
Course is designed to be customized and delivered onsite. Other locations may be offered. Virtual instructor led training sessions are available as well.

**Prerequisite**
Must be a physician, nurse, medical student or qualified sonographer.
POCUS UNIVERSITY (POC 300)

Echocardiography- TTE/TEE

- Basic TTE windows and how to perform the exam
- Fundamental transesophageal echocardiography examination for the non-cardiologist
- Complementary utilization of transthoracic and transesophageal echocardiography in the critically ill patient
- Comprehensive assessment of left ventricular function and left-sided valvular heart disease
- Echocardiographic assessment of patients with pulmonary hypertension, acute versus chronic right heart failure and right-sided valvular heart disease
- Comprehensive assessment of fluid responsiveness
- Echocardiographic assessment of patients receiving ECMO support
- Echocardiographic assessment of patients suffering myocardial ischemia
- Assessment of patients with pericardial effusion and tamponade
- The "Echocardiographic Assessment Using Subxiphoid-only View (EASY)" exam: Basic Anatomy and Imaging Protocols

Echocardiography- TTE/TEE ctd...

- Pulmonary embolism evaluation
- LV Function and Cases
- RV Function and Cases
- Usefulness and implementation of ultrasound in witnessed cardiac arrest
- Cardiopulmonary critical care ultrasound applications for the neurocritically ill patient - Dr Diaz-Gomez

Lung/Airway Management

- Lung ultrasound in 5 parts: normal, PTX, pleural effusion, interstitial syndrome, consolidation
- Advanced applications of respiratory ultrasound: from airway management to pneumonia and diaphragmatic ultrasound
- Ultrasound assessment for patients with failed weaning from mechanical ventilation

Procedural/Perioperative

- Real-time ultrasound application for paracentesis, pericardiocentesis, thoracentesis, thoracostomy tube insertion, and intrabdominal pigtail catheter placement
- Advanced intravascular access and transvenous venous placement using real-time ultrasonography
- Gastric ultrasonography in the perioperative setting

Ultrasound in Trauma/Shock

- Echocardiographic evaluation in Shock
- Assessment of septic shock and its mimickers
- Ultrasound-driven approach to patients with acute respiratory failure and/or shock
- E-FAST protocol - Dr. Nikravan
- POCUS-driven algorithms (qualitative and quantitative)

Practice Establishment

- How to create an ultrasound service in your hospital
- Quality assurance in critical care ultrasonography

Fundamentals

- Mastering knobology for the application of critical care ultrasonography - understanding your own devices

For more information
Contact a Philips ultrasound clinical services coordinator at 800-522-7022 and visit our education catalog at www.learningconnection.philips.com/ultrasound