

	Friday, Sep 19	Saturday, Sep 20	Sunday, Sep 21
7:30	Introduction to Emergency Ultrasound Where we have been and where we are going		Introduction - Becoming and Echo Expert Where we have been and where we are going
7:45		Introduction to Cardiac Ultrasound The best diagnostic tool for the patient in shock or cardiac arrest. The ONLY study to find a pericardial effusion.	Tips and Tricks of Advanced Echo Imaging Optimizing the 2D image, MMode, spectral Doppler, color Doppler. Additional views that make a difference.
8:00	Physics and Fundamentals A concise and simplified explanation of ultrasound physics.		
8:15			Size, Geometry and Function of the Left Ventricle Simple methods to grade systolic and diastolic left ventricular function. Detecting dilated and hypertrophic Cardiomyopathies and left ventricular hypertrophy.
8:45	Break		Break
9:00	Instrumentation How do I turn on the machine? Which probe do I use? How do I prepare the patient? What am I looking at?	Break	Left Ventricular Function - From Theory to Practice Clinical examples, Scenarios where left ventricular function is important, visual estimation of left ventricular function in different settings, training the eye -

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			practice session.
9:15		OB/GYN Ultrasound A comprehensive introduction to the often confusing orientation of transvaginal sonography. These lectures also explore the most common use of ultrasound by the EM physician. Do not get caught trying to rely on your physical exam to rule	
9:45	Break		Break
10:00	Ultrasound-Guided Vascular Access An overview of how to use ultrasound to help guide central venous access and peripheral venous access. Multiple Phantoms are used in lab to help students get real time practice.		
10:45	Trauma Ultrasound What is "FAST"? This lecture provides an introduction to the most helpful diagnostic tool in the trauma suite.		Complications of Myocardial Infarction Left ventricular thrombus, ischemic VSD, myocardial rupture, papillary muscle rupture.
11:05			The Right Heart Right ventricular function, pulmonary embolism and pulmonary hypertension.
11:15		Lunch	
11:45	Lunch		Lunch

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12:30		DVT Evaluation- You will learn the techniques you can use to quickly evaluate patients for DVT using a limited study	
12:45	Abdominal & Retroperitoneal Ultrasound These lectures cover the anatomy of abdominal and retroperitoneal structures including, abdominal vasculature, gallbladder, spleen, liver and kidney. We also review the important pathology you will need to be able to recognize by ultrasound.		Mitral and Aortic Regurgitation What causes regurgitation? Detecting regurgitation, Understanding the nature of color Doppler jets, quantifying regurgitation, Clinical examples - practice session.
13:30		Training Lab	
14:15			Endocarditis When to suspect endocarditis, typical features, complications, differential diagnosis
14:35			Pericardial Effusion and Tamponade Typical features of pericardial effusion, types of effusion, does effusion cause hemodynamic impairment?
15:00	Training Lab		Training Lab