



# Essentials of Cardiovascular CEUS: The Basics and Beyond

Sunday, October 20, 2019

Keck Medical Center of USC \* Keith Admin Building, 1975 Zonal Ave., Los Angeles, California

**Program hosts:** Ed Grant, MD; Steve Feinstein, MD  
**Faculty:** Steve Feinstein, MD; Ben Lin, MD; Sharon Mulvagh, MD; Thomas Porter, MD

## Agenda

- 8:00 a.m. Registration, coffee, visit exhibits
- 8:30 a.m. Welcome and Overview of ultrasound contrast agents: Composition, safety, guidelines & criteria
- 9:00 a.m. Clinical CEUS in the echo lab, ED, CCU and more
- 9:30 a.m. CEUS vs other cardiovascular imaging options: Benefits & drawbacks of each
- 10:00 a.m. **Coffee and Exhibits: Examine multiple ultrasound contrast agents and ultrasound systems**
- 11:00 a.m. How to scan: Techniques for injecting, imaging, positioning of patients, etc.
- 11:30 a.m. What images do you need? And what do they show?
- Noon Practical issues in setting up a successful CEUS lab: P&T, work flow and more
- 12:30 p.m. **Buffet lunch and demonstrations**
- 1:30 p.m. LVO - Rest and treadmill/bicycle and dobutamine stress echo
- 1:50 p.m. Quantitative myocardial perfusion imaging
- 2:10 p.m. Carotid CEUS imaging
- 2:30 p.m. **Coffee and Exhibits: Examine multiple ultrasound contrast agents and ultrasound systems**
- 3:00 pm. Cardio-oncology, EF, and other advanced CEUS uses
- 3:30 pm. CEUS and therapy: Monitoring and sonothrombolysis today, gene/drug delivery tomorrow?
- 4:00 p.m. Commonly asked questions: Yours and ours
- 4:30 p.m. Adjourn

**Registration:** <http://icus-society.org/los-angeles-ceus-event-registration/>

**Program information:** Ed Grant - [edgrant@med.usc.edu](mailto:edgrant@med.usc.edu); Steve Feinstein - [stevebfeinstein@gmail.com](mailto:stevebfeinstein@gmail.com)

## Learning objectives

By the end of this session, participants will be able to:

1. Identify specific clinical cases that would benefit from CEUS and potentially improve clinical outcomes.
2. Perform a basic CEUS examination for specific applications.
3. Interpret the enhancement changes which occur following microbubble contrast agent injection.
4. Set up a CEUS laboratory with required supplies, protocols and ordering/compliance mechanisms in place, and with involvement of hospital administration.
5. Interpret and apply relevant CEUS labeling.

## CME information

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Illinois State Medical Society and International Contrast Ultrasound Society (ICUS). The Illinois State Medical Society is accredited by the ACCME to provide continuing medical education for physicians.

The Illinois State Medical Society designates this live activity for a maximum of 5.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity

## Meals

Continental breakfast, snacks and lunch will be provided.

## Exhibit deliveries

To arrange delivery of your exhibit, please contact Ed Grant - [edgrant@med.usc.edu](mailto:edgrant@med.usc.edu).

## ICUS 2019 educational programs

- Orlando -- Abdominal CEUS -- April 10, 2019
- Chicago – Abdominal CEUS -- May 18, 2019
- Chicago – Cardiovascular CEUS -- May 19, 2019
  
- Washington, DC – Abdominal CEUS -- September 21, 2019
- Washington, DC – Cardiovascular CEUS -- September 22, 2019
  
- Los Angeles – Abdominal CEUS -- October 19, 2019
- **Los Angeles – Cardiovascular CEUS -- October 20, 2019**

## About ICUS

The International Contrast Ultrasound Society (ICUS) is the only global medical society exclusively devoted to advancing the safe and appropriate use of contrast-enhanced ultrasound (CEUS) to improve patient care where medically indicated. ICUS members include physicians, scientists and other ultrasound imaging professionals in approximately 60 countries. **Membership in ICUS is free. For more information or to join, please visit [www.icus-society.org](http://www.icus-society.org).**