



Minnesota  
CHAPTER

# Echo Bootcamp for FITs

Please join ACC-MN for *Virtual Echo Bootcamp: Echocardiogram Examinations & Emergencies* led by Richard Marcus, M.D. of Iowa Heart Center. The four sessions will be a thorough and in-depth study of different aspects of echocardiography.



**JULY 6 | JULY 13 | JULY 20 | JULY 27**

**6:30 pm CST Start of Presentation**

**RSVP →**

**RSVP: [info@accmn.org](mailto:info@accmn.org) | Space is Limited!**

## PRESENTER BIO

### RICHARD H. MARCUS, M.D.



Dr. Richard Marcus is one of the nation's leading experts in the use of echocardiography to diagnose heart disease.

Dr. Marcus, a native of South Africa, received a medical degree from the University of Witwatersrand Medical School in Johannesburg. He then completed surgery and internal medicine

internships at Johannesburg General Hospital; and senior internships in surgery and anesthesiology, and a residency in internal medicine at the Johannesburg Group of Teaching Hospitals.

After two years of military service, Dr. Marcus completed a cardiology research fellowship at the University of Witwatersrand; a clinical cardiology fellowship at the Johannesburg Group of Teaching Hospitals; and a clinical/research fellowship at the University of Chicago Medical Center.

He has held numerous academic and clinical appointments and has published extensively in the areas of valvular heart disease, left ventricular function, ventricular-arterial coupling and Doppler echocardiography. He joined Iowa Heart Center in 1996.

Dr. Marcus is board certified in cardiology and echocardiography, and currently practices at Iowa Heart Center's West University clinic in West Des Moines.

## TOPICS OF DISCUSSION

### — ECHOCARDIOGRAPHIC EXAMINATION —

JULY 6 & JULY 13

- Set-up for integrated echocardiographic examination
- Essential physics of ultrasound
- Physical constraints of cardiac ultrasound imaging
- Transducer selection
- Generation of ultrasound images
- Imaging modalities
- Clinical indications
- Views/planes/modalities/structures imaged
- Choreographed 2D/M-mode echocardiographic examination
- Quantitative applications of 2D imaging
- Semi-quantitative applications of 2D imaging
- Contrast Echocardiography
- Doppler echocardiography - 4 tenets
- Doppler echocardiography - 4 flavors
- Physiologic applications of Doppler echocardiography
- Choreographed Doppler echocardiographic examination

### — ECHOCARDIOGRAPHIC EMERGENCIES —

JULY 20 & JULY 27

- Modes of clinical presentation
- Holistic approach
- Hypotension/shock
- Acute pulmonary edema
- Acute respiratory distress
- Chest/Interscapular pain