ABSTRACT  This presentation will provide an overview of current techniques and applications for cardiovascular MRI. Accelerated cine imaging techniques will be discussed including compressed sensing and increased acceleration parallel imaging. Regional functional imaging with tissue phase mapping and DENSE will be reviewed. Some new approaches to tissue characterization with T1, T2 and extracellular volume measurements will be presented, along with clinical examples. Finally, newer vascular imaging approaches in the thorax will be outlined including 4D flow and non contrast MRA.

Global Learning Objectives
• Critically analyze research, guidelines and appropriate use criteria to develop best-practice diagnosis and treatment strategies
• Evaluate latest innovations in imaging to assess safety and effectiveness

Session Learning Objectives
• Improve cine imaging of the heart so that new techniques can be applied for better diagnosis of cardiac disease
• Demonstrate tissue characterization approaches which will facilitate diagnosis of new diseases
• Demonstrate non contrast MRA approaches in the thorax and how they can be applied clinically

Accreditation
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation
The Stanford University School of Medicine designates this live activity for a maximum of 1.00 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Cultural and Linguistic Competency
California Assembly Bill 1195 requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. The planners and speakers of this CME activity have been encouraged to address cultural issues relevant to their topic area. The Stanford University School of Medicine Multicultural Health Portal also contains many useful cultural and linguistic competency tools including culture guides, language access information and pertinent state and federal laws. You are encouraged to visit the portal: http://lane.stanford.edu/portals/cultural.html

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