



UC San Diego

MEDICAL CENTER
SULPIZIO FAMILY
CARDIOVASCULAR CENTER

PRESENTS

TENTH ANNUAL

Biomarkers in Heart Disease: What Every Healthcare Provider Should Know

Anthony N. DeMaria, M.D.

Alan Maisel, M.D.

Lori Daniels, M.D.

PROGRAM CO-DIRECTORS

SATURDAY, APRIL 5, 2014

7:45AM – 5:00PM

SUNDAY, APRIL 6, 2014

8:00AM – 12:00NOON

ESTANCIA LA JOLLA HOTEL
LA JOLLA, CALIFORNIA





COURSE DESCRIPTION

This annual event is designed to provide the most up to date standards in clinical application of biomarkers. This evidence based curriculum includes topics in a variety of areas including:

- Latest Biomarker Application with Natriuretic Peptides
- Latest Biomarker Application with Troponins
- A Review of National Databases and Quality Initiatives Such as ADHERE
- Update on Application of Necrosis, Inflammatory and Ischemia Markers as They Emerge
- Interpreting Guidelines and Recommendations for Biomarker Utility
- Markers as Surrogate Endpoints for Clinical Investigation
- Interactive and Practical Workshops on Biomarkers Applied to Case Studies and Care Pathways to Expedite Care

OBJECTIVES

At the conclusion of this activity, participants should be able to:

- 1) Utilize current standards of care associated with application of biomarkers in CV disease
- 2) Review recent literature that demonstrates diagnostic, prognostic, risk stratification and monitoring of disease via biomarkers
- 3) Evaluate the dynamic regulatory environment (FDA) and how biomarkers may play a role in determining therapeutic targets
- 4) Discuss future biomarker applications in CV disease

TARGET AUDIENCE

Cardiologists, Internists, Primary Care Physicians, Emergency Medicine Physicians, Clinical Laboratorians and Nursing Professionals.

NEEDS ASSESSMENT

The content of this educational activity is evidence-based and determined as a reflection of recent advancements in clinical guidelines, care recommendations and index medicus literature over the past 12 months. Further, prior evaluations of this annual program have assisted in developing a curriculum that satisfies target audience interest. Finally, this course is in part a reflection of new therapeutic and management tools that have recently become available for clinical practice.

FACULTY

PROGRAM CO-DIRECTORS



Anthony N. DeMaria, M.D.
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Alan S. Maisel, M.D.
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KEYNOTE SPEAKER



Robert Jesse, M.D.
VA Commonwealth
University Health
System
Richmond, VA

GUEST FACULTY

Daniel Berman, M.D.
Cedars-Sinai Medical Center
Los Angeles, CA

Christopher de Filippi, M.D.
University of Maryland
Baltimore, MD

Gregg Fonarow, M.D.
University of California, Los Angeles
Los Angeles, CA

Barry Greenberg, M.D.
University of California, San Diego
San Diego, CA

Allan Jaffe, M.D.
Mayo Clinic and Medical School
Rochester, MN

Bruce Kimura, M.D.
Scripps-Mercy Hospital
San Diego, CA

David Krummen, M.D.
University of California, San Diego
San Diego, CA

Peter McCullough, M.D.
St. John Providence Health System
Novi, MI

Sunder Mudaliar, M.D.
Brigham and Women's Hospital
Boston, MA

Sean-Xavier Neath, M.D.
San Diego VA Healthcare System
San Diego, CA

Leong Ng, M.D.
University of Leicester
England

Peter Pang, M.D.
Northwestern University
Chicago, IL

W. Frank Peacock, M.D.
Baylor College of Medicine
Houston, TX

Douglas Triffon, M.D.
Scripps Clinic/Scripps Green Hospital
La Jolla, CA

Sam Tsimikas, M.D.
University of California, San Diego
San Diego, CA

Thomas Wang, M.D.
Vanderbilt University
Nashville, TN

Joel Wilson, M.D.
University of California, San Diego
San Diego, CA

Alan Wu, Ph.D.
UC San Francisco
San Francisco, CA

SCHEDULE OF EVENTS

SATURDAY, APRIL 5, 2014

7:45 AM Welcome – Anthony DeMaria, M.D., David Brenner, M.D., and Lori Daniels, M.D.

8:00 AM Agenda Review and Introduction – Alan Maisel, M.D.

SESSION I: Chest Pain & Biomarkers – 10 Years Past and 10 Years Future – Robert Jesse, M.D., Moderator

8:15 AM *How Far We've Come Since 2004* – Alan Wu, Ph.D.

8:30 AM *Where Are We in the Emergency Department Now?* – W. Frank Peacock, M.D.

8:45 AM *The Future: Requiem for Unstable Angina?* – Robert Jesse, M.D.

9:00 AM *Where We Must Go Over the Next 10 Years* – Allan Jaffe, M.D.

9:15 AM Panel Discussion – Robert Jesse, M.D., Moderator

9:30 AM Break

SESSION II: Heart Failure & Biomarkers – 10 Years Past and 10 Years Future – Lori Daniels, M.D., Moderator

10:00 AM *Natriuretic Peptides - How Far We've Come in 10 Years* – Lori Daniels, M.D.,

10:15 AM *The Next 10 Years Evolving Application of Natriuretic Peptides* – Alan Maisel, M.D.

10:30 AM *Biomarkers for Discharge Planning and Preventing Readmission* – Gregg Fonarow, M.D.

10:45 AM *New Marker Application in HF: Procalcitonin and Adrenomedullin* – Sean-Xavier Neath, M.D.

11:00 AM *Cardio-Renal Biomarkers* – Leong Ng, M.D.

11:15 AM *My Favorite New Biomarker: Galectin 3* – Peter McCullough, M.D.

11:30 AM *My Favorite New Biomarker: ST2* – Christopher DeFilippi, M.D.

11:45 AM Panel Discussion – Lori Daniels, M.D., Moderator

12:00 PM Lunch

1:00 PM Keynote Address – Robert Jesse, M.D.

SESSION III: The Next Decade – New Possibilities – Alan Maisel, M.D., Moderator

2:00 PM *Heart Failure Therapy & What Biomarkers Have Told Us* – Peter Pang, M.D.

2:20 PM *Heart Failure Therapy in the Future* – Barry Greenberg, M.D.

2:40 PM Break

3:00 PM *Arrhythmias, Devices and Biomarkers* – David Krummen, M.D.

3:20 PM *Anticoagulation and Biomarkers* – Gregg Fonarow, M.D.

3:40 PM *Debate Topic: Should Primary Care Order Biomarkers in Clinic?* – Alan Maisel, M.D.

3:50 PM *Pro Perspectives* – Thomas Wang, M.D.

4:10 PM *Con Perspectives* – Allan Jaffe, M.D.

4:30 PM Panel Discussion – Alan Maisel, M.D., Moderator

SUNDAY, APRIL 6, 2014

SESSION IV: Diabetes, Heart and Kidney – The Next 10 Years

– Sotirios Tsimikas, M.D., Moderator

8:00 AM *Diabetes: Issues in Biomarkers of Patient Management* – Sunder Mudaliar, M.D.

8:30 AM *A New Biomarker for Women's Risk* – Alan Maisel, M.D.

9:00 AM *Clinical Implications: Particle Number Vs Cholesterol Measures of LDL Quantity*

– Douglas Triffon, M.D.

9:30 AM Panel Discussion – Sotirios Tsimikas, M.D., Moderator

10:00 AM Break

SESSION V: New Trials: Biomarkers and Imaging – Present and the Next 10 Years – Anthony DeMaria, M.D., Moderator

Echo – Anthony DeMaria, M.D.

Coronary Calcium – Daniel Berman, M.D.

MRI – Joel Wilson, M.D.

The Ultrasound Physical: Finding Ultrasonic "Biomarkers" at the Bedside

– Bruce Kimura, M.D.

Imaging in the Next 10 Years – Alan Wu, M.D.

Questions – Anthony DeMaria, M.D., Moderator

12:00 PM Program Conclusion – Alan Maisel, M.D. and Anthony DeMaria, M.D.