

22nd WCIRDC

World Congress Insulin Resistance
DIABETES & CARDIOVASCULAR DISEASE

EARN UP
TO 26.5
CME
ABIM-MOC
CREDITS

December 12–14, 2024
Hilton Universal City Hotel
Los Angeles, CA



Administered by Metabolic Institute of America

Exploring New Frontiers In Metabolism – Tomorrow's Clinical Science Today

JOINTLY PROVIDED



ADMINISTERED BY:



www.WCIR.org



[in](#) [f](#) [X](#) @wcirdc #WCIRDC2024



Welcome,

It is my pleasure to welcome you to the 22nd Annual World Congress on Insulin Resistance, Diabetes and Cardiovascular Disease (WCIRDC): Exploring New Frontiers in Metabolism—Tomorrow's Clinical Science Today.

The 22nd Annual WCIRDC will be held on December 12-14, 2024, at the Hilton Universal City, Los Angeles. This CME/MOC conference will be available On-Demand for 90 days following the meeting.

WCIRDC is world's premier conference on cardiorenal and metabolic diseases, it is the only meeting of its size to combine basic science and clinical research in a cross-discipline format that promotes communication between researchers, physicians, and other healthcare professionals.

The world-renowned expert faculty and attendees engage with each other in in-depth discussions on the inter-related pathophysiology and clinical manifestations of diabetes, obesity, lipid disorders, cardiovascular disease (CVD), chronic kidney disease (CKD), and other cardiorenal and metabolic diseases. Sessions are designed to explore how laboratory and preclinical study findings relate to clinical trial findings and the impact of evidence on best practices in the cardiometabolic community. The WCIRDC faculty consists of globally acclaimed experts who link research to clinical practice in a bench-to-bedside approach which is unique to this state-of-the-art program.

We are proud to honor W. Timothy Garvey, MD with the prestigious "Gerald Reaven Distinguished Leader in Insulin Resistance" Award, recognizing his exceptional contributions to the field. Dr. Garvey's keynote lecture: 'A Belated Pathway Towards Obesity Medicine: from Frustration to an Era of Drug Development that is a Landmark in the History of Medicine'.

This year's conference will cover a wide range of topics including The Liver in Cardiometabolic Diseases, Circadian and CMR, Heart Failure, a Joint Session with Metabolism, Obesity, Sarcopenia Association with Obesity, Kidney, HTN and the Heart, diabetes genetics aspects and relationship to dementia, diet and weight loss. A glimpse to the future- what's in the pipeline and much more encompassing the multifaceted realm of metabolic medicine. Distinguished experts are poised to unveil groundbreaking perspectives fostering an environment conducive to collaborative learning and professional growth.

Clinical workshops & meet-the-expert small groups sessions will provide attendees with a rare opportunity to personally interact with esteemed leaders in an intimate setting.

The Congress has a strong and highly successful abstracts program. Abstracts will be published in *Metabolism Clinical and Experimental*- IF 13.93 EIC Christos S. Mantzoros, MD, DSc, PhD.

The 22nd WCIRDC will feature a robust Poster Hall, Oral Abstract Presentations, an attractive Exhibit Hall, and Industry Supported non-CME programs featuring important new scientific concepts with some of the world's best-known educators.

I look forward to you attending this exciting conference on December 12-14, 2024, at Hilton Universal City Los Angeles, California. We hope to see you there.



Best regards,

Yehuda Handelsman, MD
Chair & Program Director

Scientific Organizing Committee - International Committee for Insulin Resistance - ICIR

Yehuda Handelsman, MD Chair
Tarzana, CA

Richard N. Bergman, PhD
Los Angeles, CA

Zachary T. Bloomgarden, MD
New York, NY

Matthew J. Budoff, MD
Los Angeles, CA

Sonia Caprio, MD
New Haven, CT

Robert J. Chilton, DO
San Antonio, TX

Jamie A. Davidson, MD
Dallas, TX

Ralph A. DeFronzo, MD
San Antonio, TX

Vivian A. Fonseca, MD
New Orleans, LA

W. Timothy Garvey, MD
Birmingham, AL

Peter J. Grant, MD
Leeds, United Kingdom

Jennifer B. Green, MD
Durham, North Carolina

Stephen J. Greene, MD
Durham, North Carolina

George Grunberger, MD
Bloomfield Hills, MI

Chris K. Guerin, MD
Oceanside, CA

Ania Jastreboff, MD, PhD
New Haven, Connecticut

Paul S. Jellinger, MD
Hollywood, FL

Samuel Klein, MD
St. Louis, MO

Mikhail N. Kosiborod, MD
Kansas City, MO

Ronald M. Krauss, MD
Berkeley, CA

Rohit N. Kulkarni, MD, PhD
Cambridge, MA

Norman E. Lepor, MD
Los Angeles, CA

Derek LeRoith, MD, PhD
New York, NY

Philip Levy, MD
Phoenix, AZ

Ildiko Lingvay, MD, MPH, MSCS
Dallas, Texas

Christos S. Mantzoros, MD, PhD
Boston, MA

Nikolaus Marx, MD
Aachen, Germany

Tracey L. McLaughlin, MD
Stanford, CA

Christian W. Mende, MD
La Jolla, CA

Erin D. Michos, MD, MHS
Baltimore, Maryland

Jorge Plutzky, MD
Boston, MA

Richard E. Pratley
Orlando, FL

Peter Rossing, MD, DMSc
Herlev, Denmark

Arun J. Sanyal, MD
Richmond, VA

Philipp E. Scherer, PhD
Dallas, TX

Bart Staels, PhD
Lille, France

Pam R. Taub, MD
San Diego, CA

Muthiah Vaduganathan, MD, MPH
Boston, MA

Matthew R. Weir, MD
Baltimore, MD

Paul Zimmet, AO, PhD
Melbourne, Australia



PROGRAM DESCRIPTION

The World Congress on Insulin Resistance, Diabetes & Cardiovascular Disease (WCIRDC), now in its 22nd year, stands as a distinctive and vibrant multidisciplinary CME conference. Serving as the paramount global assembly dedicated to diabetes, obesity, lipids, cardiovascular-kidney, and liver diseases, the Congress intricately weaves together basic research and clinical practice in pursuit of our guiding theme: Exploring New Frontiers in Metabolism — Tomorrow's Clinical Science Today.

Participants are able to earn up to 26.5 CME & ABIM-MOC credits.

The WCIRDC program features a unique convergence of basic and clinical science. For over two decades, it has convened physicians, clinicians, researchers, and other healthcare professionals into an international arena, crafting an exclusive program that seamlessly bridges the latest advancements from bench-to bedside-to-bench. Often resonating with the words, "I heard it first at the WCIRDC," the program provides

The program is designed to evaluate both clinical and basic science aspects of diabetes, obesity, CVD and CKD, focusing on insulin resistance, incretins, the gut, the brain, the kidney and the heart. The goal is to understand pathophysiology and to develop appropriate comprehensive clinical management plans.

Upon completion of this meeting, participants should be able to:

- Discuss the effects of insulin resistance on the heart, kidney, and liver
- Describe the relationship between diabetes, obesity, kidney disease, and heart disease
- Implement best practices for the prevention and management of CKD, HF, and CVD

an unparalleled opportunity for attendees to directly engage with distinguished global faculty, within an intimate setting, propelling explorations into the most current understanding of metabolic diseases and the unfolding emerging therapeutic approaches.

Since the seminal work of Dr. Gerald Reaven, crystallizing the interplay of insulin resistance, diabetes, obesity, and cardiovascular disease, the congress's scope has expanded. It now encompasses domains such as the kidney, liver, brain, bone, cancer, and beyond. The congress agenda includes dyslipidemia, atherosclerosis, hypertension, hypercoagulation, and inflammation. It also underscores the intricate interplay between Diabetes-Cardio-Renal and Metabolic Diseases. The program will cover updates on pharmaceutical interventions, including incretins- GLP1 ra and dual agonists, SGLT2i & SGLT2/1i, PCSK9 i, MRA, bempedoic acid and IPE, will be illuminated. The aim is to foster an in-depth understanding of state-of-the-art

pathophysiology, novel medical interventions, and the development of comprehensive clinical management strategies.

To bridge the gap between research and clinical practice, live Q&A and panel discussions will follow each session, exploring their implications in clinical scenarios. Enhanced interaction with faculty and fellow attendees will be facilitated through extended breaks and social events.

The Congress garners cutting-edge abstracts from both emerging researchers and renowned leaders across the globe. The best abstracts will be presented orally. There will be a keynote presentation by Dr. W. Timothy Garvey the recipient of the Gerald Reaven Distinguished Leader Award. Clinical Workshops and meet the experts sessions allow for small groups learning and intimate face-to-face interaction with some of the best known leaders.

PROGRAM OBJECTIVES

- Evaluate the evidence supporting the use of new and emerging therapies to reduce cardiovascular mortality in patients with cardiometabolic disease
- Evaluate the impact on clinical practice of new CVOTs in patients with obesity diabetes and other cardiometabolic diseases
- Design therapeutic regimens for patients with multiple cardiorenal and metabolic disorders that capitalize on agents with broad effects across the spectrum of these comorbidities
- Utilize technology to enhance the effectiveness of therapeutics
- Understand the Circadian clock relationship to cardiometabolic diseases
- Discuss the changes in diagnosis and management based on DCRM 2.0 Global Multispecialty Practice Recommendations.
- Describe the role of Sarcopenia in Obesity and weight loss
- Be able to discuss diabetes genetics aspects and relationship to the Dementia
- Recognize the role of Hypercortisolism in diabetes and cardiometabolic diseases
- Be aware of the intersection of obesity Type 1 diabetes CKD and hypercalcemia

TARGET AUDIENCE

This educational initiative is designed for endocrinologists, cardiologists, nephrologists, family physicians, internists, diabetologists, gastroenterologists, pediatricians, OB/GYNs, researchers, nurse practitioners, physician assistants, dietitians, diabetes educators, and other healthcare professionals interested in the pathophysiology, prevention, and treatment of diabetes, obesity, CVD, CKD, HF, and associated conditions, as well as the effect of these conditions on health and society.

6:45 am Pre-Registration | Exhibit Hall Opens | Coffee

7:00 am – 8:00 am Pre-Congress Breakfast CME SYMPOSIUM

Made Available by **MLI-Medical Learning Institute**

This activity is supported by an independent medical educational grant from
Boehringer Ingelheim Pharmaceuticals, Inc. and Eli Lilly and Company
Sierra Ballroom B

**CKM Dialogues LIVE | Therapeutic Strategies for Cardiovascular-Kidney-Metabolic Syndrome:
Addressing the Interwoven Triad of Heart Failure, Chronic Kidney Disease, and Diabetes**

Chair: Jay H. Shubrook, DO

Faculty: Jennifer B. Green, MD • Pam R. Taub, MD • Matthew R. Weir, MD

7:00 am Welcome and Introductions

Jay H. Shubrook, DO

7:05 am Exploring the Connections Between CKD, HF, and T2D

Jennifer B. Green, MD • Pam R. Taub, MD • Matthew R. Weir, MD

7:11 am Unveiling Epidemiological Trends and Pathophysiological Links

Jennifer B. Green, MD • Pam R. Taub, MD • Matthew R. Weir, MD

7:26 am Emerging Therapeutic Strategies for CKM Syndrome

Jennifer B. Green, MD • Pam R. Taub, MD • Matthew R. Weir, MD

7:41 am Tailoring Treatment for CKM Syndrome

Jennifer B. Green, MD • Pam R. Taub, MD • Matthew R. Weir, MD

7:51 am Q&A

Jay H. Shubrook, DO

8:00 am Adjourn

8:15 am - 8:30 am Welcome & Introduction | Pre-CME Questions

Yehuda Handelsman, MD

Session 1 The Liver in Cardiometabolic Diseases

Chairs: Bart Staels, PhD • Derek Leroith, MD, PhD

8:30 am Targeting Hepatic Mitochondria to Treat MASLD, MASH and Cardiometabolic Disease

Gerald I. Shulman, MD, PhD

8:50 am Real-world evidence for DCRM health

Christos S. Mantzoros, MD, DSc, PhD

9:10 am – 9:20 am Panel Discussion and Q&A

Session 2 Circadian and CMR

Chairs: Paul Zimmet, MD, PhD • Richard N. Bergman, PhD

9:20 am The Circadian Clock in Cardio-metabolic Diseases

Bart Staels, PhD

9:40 am Circadian Medicine: Practical Insights into the 4th Dimension of Cardiovascular Health and Disease.

Michael J. Sole, BS Hons, MD

10:00 am- 10:10 am Panel Discussion and Q&A

10:10 am – 10:40 am Refreshment Break at the Exhibit Hall

Session 3 Heart Failure Circa 2024

Chairs: Norman E. Lepor, MD • Matthew J. Budoff, MD

10:40 am The Role of Iron in the Pathophysiology of Cardiorenal Diseases

Peter J. Grant MD

11:00 am HFpEF in Women and Sex-specific Response to Therapies

Erin D. Michos, MD, MHS

11:20 am Worsening Heart Failure: Nomenclature, Epidemiology, and Future Directions

Stephen J. Greene, MD

11:40 am -11:55 am Panel Discussion and Q&A

THURSDAY, DECEMBER 12 (CONT.)

Session 4 Concurrent Sessions: Meet the Experts

12:00 pm	DM - the Noxious Nine Everything IR - Cardiometabolic Diseases Kidney, HTN Obesity	Mandarin AB Salon 6AB Hiro Club	Ralph A. DeFronzo, MD Yehuda Handelsman, MD Matthew R. Weir, MD Samuel Klein, MD
----------	---	--	---

12:45 pm

12:45 pm – 1:45 pm Lunch Break

12:55 pm – 1:40 pm Lunch Session Non-CME Education Sierra Ballroom B

Zepbound- (Tirzepatide) Injection
Supported by **Eli Lilly & Co.**



Matthew J. Budoff, MD

Session 5 Technology Impact on Health

Chairs: George Grunberger, MD • Chris K. Guerin, MD

1:45 pm	Insights From Real-World Use of CGM On Long-Term Patterns of Glucose Control and Development of Diabetes Complications	Peter D. Reaven, MD
2:05 pm	Use of CGM for Metabolic Subphenotyping	Tracey L. McLaughlin, MD, MS
2:25 pm – 2:35 pm	Panel Discussion and Q&A	

Session 6 Joint Session with Metabolism @ WCIRDC 2024

Chairs: Christos S. Mantzoros, MD, DSc, PhD • Christian W. Mende, MD

2:35 pm	Introduction and Award	Christos S. Mantzoros, MD, DSc, PhD
2:45 pm	Loss of CEACAM1 in Endothelial Cells Causes Hepatic Fibrosis	Sonia M. Najjar, MD
3:05 pm	EAT-Lancet diet and prevention of cardiorenal metabolic diseases	Emily Sonestedt, MSc, PhD
3:25 pm	Cardiac insulin resistance in diabetic cardiomyopathy	Gary Lopaschuk, PhD
3:45 pm – 4:00 pm	Panel Discussion and Q&A	
4:00 pm – 4:30 pm	Refreshment Break at the Exhibit Hall	

Session 7 DCRM 2.0

Chairs: Jorge Plutzky, MD • Matthew R. Weir, MD

4:30 pm	Background and Rationale	Yehuda Handelsman, MD
	Topics Presentations: Matthew J. Budoff, MD • Zachary T. Bloomgarden, MD Peter J. Grant, MD • Jennifer B. Green, MD • Stephen J. Greene, MD • George Grunberger, MD • Paul S. Jellinger, MD • Samuel Klein, MD • Christos S. Mantzoros, MD, DSc, PhD • Chrisitan W. Mende, MD • Erin D. Michos, MD, MHS Richard E. Pratley, MD	
5:15 pm	Panel Discussion and Q&A	

Session 8 Contemporary Topics in Diabetes

Chairs: Richard E. Pratley, MD • Zachary T. Bloomgarden, MD

5:15 pm	Evaluation and Management of (painful) Diabetes Neuropathy	George Grunberger, MD
5:35 pm	Prioritizing Patient Experiences in the Management of Diabetes and Its Complications	Kelly L. Close, MBA
5:55 pm	From Research to Guidelines to Implementing Good Clinical Practice in the Management of Diabetes	Jennifer B. Green, MD
6:15 pm - 6:30 pm	Panel Discussion and Q&A Post CME Questions	

6:30 pm – 7:30 pm WELCOME & POSTER RECEPTION at the Exhibit Hall

Refreshments will be served.

7:30 pm – 9:30 pm **DINNER CME SYMPOSIUM** **Sierra Ballroom B** Supported by **AstraZeneca**

The Complications of the DCRM- Diabetes & CardioRenalMetabolic- Patient

Chairs: Yehuda Handelsman, MD • Stephen J. Greene, MD



- 7:30 pm - Dinner and Wine Served
- 7:45 pm Introduction & Pre-CME Questions
- 7:55 pm Diabetes & CRM Approach to Comorbidities
- 8:15 pm Heart Failure & Cardiomyopathy- Addressing Etiologies
- 8:35 pm The Treatment of CKD and Heart Failure Circa 2024
- 8:55 pm **Panel Discussion and Q&A:**
The Physician's Role in the Proper Diagnosis of DCRM Complications
- Panel:** Stephen J. Greene, MD Michelle M. Kittleson, MD, PhD •
Peter Rossing, MD, DMSc, Katherine R. Tuttle, MD **Moderator:** Yehuda Handelsman, MD
- Post-CME Questions & Concluding Remarks
- 9:30 pm Adjourn

Stephen J. Greene, MD
Peter Rossing, MD, DMSc
Michelle M. Kittleson, MD, PhD
Katherine R. Tuttle, MD

FRIDAY, DECEMBER 13

6:45 am Registration

7:00 am – 8:00 am **Exhibit Hall Opens | Coffee**

7:00 am – 7:45 am **Breakfast Session** **Non-CME Education** **Sierra Ballroom B**

Unlocking the Potential of Menin Inhibition: Icovamenib and a look into the Future of Diabetes Management
Supported by **Biomea Fusion**



Juan Pablo Frias, MD



Rohit N. Kulkarni, MD



Alice YY Cheng, MD

8:00 am – 8:15 am Summary of Day 1 & Pre-CME Questions

Zachary T. Bloomgarden, MD

Session 9 A Multi-Disciplinary Approach to Obesity Panel Session

Chairs: Samuel Klein, MD • W. Timothy Garvey, MD

- 8:15 am Nephrology
- Cardiology
- Endocrinology
- SELECT Outcome implication on Practice
- Panel Discussion and Q&A After Each Speaker

Csaba P. Kovesdy, MD
Laurence S. Sperling, MD
Ania M. Jastreboff, MD, PhD
Ildiko Lingvay, MD

9:45 am

Session 10 Sarcopenia Association with Obesity- Myth & Reality

Chair: Philipp E. Scherer, PhD • Ania M. Jastreboff, MD, PhD

- 9:45 am Epidemiology and Pathophysiology of Sarcopenia –
Challenges in Prevention and Management

Zachary T. Bloomgarden, MD

10:05 am – 10:35 am **Refreshment Break at the Exhibit Hall**



FRIDAY, DECEMBER 13 (CONT.)

10:35 am	Debate: Sarcopenia is a Real Concern	
	No	Samuel Klein, MD
	Yes	Richard E. Pratley, MD
11:05 am – 11:20 am	Panel Discussion and Q&A	

Session 11 Kidney, HTN and the Heart

Chairs: Erin D. Michos, MD, MHS • Ralph A. DeFronzo, MD

11:20 am	Chronic Kidney Disease: Should We Worry about the Heart or Progression to ESKD	Matthew R. Weir, MD
11:40 am	HTN & IR - Contemporary Approach to Management	Raymond R. Townsend, MD
12:00 pm – 12:10 pm	Panel Discussion and Q&A	
12:10 pm – 1:10 pm	Lunch Break	

12:20 pm – 1:05 pm Lunch Session Non-CME Education Sierra Ballroom B

Evolving Perspectives on Hypertension
Secondary to Hypercortisolism: A Panel Discussion
Supported by **Corcept Therapeutics**



Yehuda Handelsman, MD



Jorge Plutzky, MD



Matthew R. Weir, MD

Session 12 Cells, Endothelium & Organs

Chairs: Bart Staels PhD • Vivian A. Fonseca, MD

1:10 pm	Endothelial Cell Cycling Expanding Definitions of Endothelial Function and Dysfunction	Jorge Plutzky MD
1:30 pm	Cellular Mechanisms of Lipotoxicity (Glucagon Receptors in the Liver & kidney)	Philipp E. Scherer, PhD
1:50 pm	Targeting Cell Senescence and Senolytics: Novel Interventions for Age-Related Metabolic Dysfunction	Richard E. Pratley, MD
2:10 pm	PPARalpha Impact on Inflammation, Hepatocytes and Atherosclerosis	Bart Staels, MD
2:30 pm – 2:50 pm	Panel Discussion and Q&A	
2:50 pm – 4:05 pm	Refreshment Break at the Exhibit Hall	

3:15pm – 4:00 pm Refreshment Session Non-CME Education Sierra Ballroom B

Coffee talk: Expert Panel on the Evolving Landscape of CRM, Including Liver Health, and Emerging Strategies to Improve Care.
Supported by **Boehringer Ingelheim**



Pamela Kushner, MD



Samuel Klein, MD



Pam R. Taub, MD

Session 13 A Glimpse into the Future - What's in the Pipeline? (Non CME)

Chairs: Ralph A. DeFronzo, MD • Christos S. Mantzoros, MD, DSc, PhD

4:05 pm	Regeneron	Robert Pordy, MD
4:20 pm	Bayer	Katja Rohwedder, MD
4:35 pm	Amgen	Narimon Honarpour, MD, PhD
4:50 pm - 5:05 pm	Panel Discussion and Q&A	

Session 14 Diabetes - Genetics & Dementia

Chairs: Ildiko Lingvay, MD • Chris K. Guerin, MD

5:05 pm	T2D Genome-Wide Association Study (GWAS), Polygenic Risk Scores, and Genetic Subclusters Elucidate the Heterogeneity of T2D	Jerome I. Rotter, MD
5:25 pm	Diabetes, Drugs, and Dementia	Alice YY Cheng, MD
5:45 pm – 6:00 pm	Panel Discussion and Q&A Post CME Questions	

6:00 pm – 7:30 pm DINNER CME SYMPOSIUM **Sierra Ballroom B** Supported by **Lexicon**

T1D Circa 2024 – Managing Obesity, CardioRenal Complications & Hyperglycemia

Chairs: Matthew J. Budoff, MD • Yehuda Handelsman, MD



6:00 pm Dinner and Wine Served
 6:10 pm Introduction & Pre-CME Questions
 6:15 pm Controlling Hyperglycemia in Today's T1D- Challenges and Solutions
 6:30 pm Contemporary T1D- Obesity and Cardiometabolic Complications
 6:45 pm CKD in T1D the role of the SGLT1/2i Sotgliflozin
 7:05 pm **Panel Discussion and Q&A:** Risk Benefit- Managing T1D with Non-Insulin Agents Preventing Cardiorenal Morbidities
Panel: Matthew J. Budoff, MD • David Cherney MD, PhD • Richard E. Pratley, MD
Moderator: Yehuda Handelsman, MD
 Post-CME Questions & Concluding Remarks
 7:30 pm Adjourn

Matthew J. Budoff, MD
 Richard E. Pratley, MD
 Matthew J. Budoff, MD
 David Cherney MD, PhD

7:30 pm – 9:00 pm

Abstract Oral Presentation

CHEESE & WINE WILL BE SERVED

Chair: Zachary T. Bloomgarden, MD



Abstract Committee: Ralph A. DeFronzo, MD • Vivian A. Fonseca, MD
 George Grunberger, MD • Norman E. Lepor, MD • Derek LeRoith, MD, PhD
 Christian W. Mende, MD • Richard E. Pratley, MD • Matthew R. Weir, MD

Abstracts published in **Metabolism: Clinical and Experimental**

Editor-in-Chief: Christos S. Mantzoros, MD, DSc, PhD



SATURDAY, DECEMBER 14

6:45 am **Registration & Coffee**

7:45 am – 8:00 am Summary of Day 2 & Pre-CME Questions

Zachary T. Bloomgarden, MD

8:00 am – 8:05 am Oral Abstract Winners Award Presentation

Zachary T. Bloomgarden, MD

8:05 am - 9:05 am BREAKFAST CME SYMPOSIUM **Sierra Ballroom CD** Supported by **BAYER**

Toward Reducing the Disease Burden of Heart Failure & Improve Patients Outcomes

Chairs: Mikhail N. Kosiborod, MD • Muthiah Vaduganathan, MD, MPH



8:05 am Introduction
 8:10 am Moonraker- Overview of the Investigators Led Research Program
 8:25 am FINEARTS-HF - Finerenone in Heart Failure with EF > 40%
 8:40 am FINE-HEART - Finerenone in Heart Failure and Chronic Kidney Disease Trials
 8:55 am **Panel Discussion:** The Crystal Ball- ns MRA in the Guidelines
Panel: Muthiah Vaduganathan, MD, MPH • Orly Vardeny, PharmD, MS
Moderator: Mikhail N. Kosiborod, MD
 9:05 am Adjourn

Muthiah Vaduganathan, MD, MPH
 Mikhail N. Kosiborod, MD
 Orly Vardeny, PharmD, MS
 Muthiah Vaduganathan, MD, MPH

SATURDAY, DECEMBER 14 (CONT.)

Session 15

Gerald Reaven Distinguished Leader in Insulin Resistance 2024 Award

9:05 am Award Presentation by Vivian A. Fonseca, MD • Peter J. Grant, MD

9:10 am A Belated Pathway Towards Obesity Medicine: From Frustration to an Era of Drug Development that is a Landmark in the History of Medicine

9:40 am – 9:45 am Q & A



W. Timothy Garvey, MD

9:45 am – 9:55 am Refreshment Break at the Exhibit Hall

Session 16

Emerging Topics in Cardiometabolic Diseases

Chairs: Jennifer B. Green, MD • Peter J. Grant MD

9:55 am CVOTs Update focus on HF

10:15 am Off Target Aspects and Safety of GLP1-ra

10:30 am MRA in Cardiorenal Translational Biology- Implications to Practice

10:50 am Hypercortisolism Impact on Diabetes and Cardiometabolic Diseases

11:10 am CATALYST – Hypercortisolism in Hard to Control Diabetes - Final Results

11:25 am – 11:40 am Panel Discussion and Q&A

11:40 am – 12:40 pm Lunch Break & Check-Out

Mikhail N. Kosiborod, MD

Vivian A. Fonseca, MD

Robert J. Chilton, DO

Ralph A. DeFronzo, MD

Vivian A. Fonseca, MD

11:50 am – 12:35 pm Lunch Session Non-CME Education Sierra Ballroom B

Mounjaro® (tirzepatide)

Supported by **Eli Lilly & Co.**



Carol H. Wysham, MD

Session 17

Important Issues in Cardiovascular Disease

Chairs: Robert Chilton, DO • Pam R. Taub, MD

12:40 pm CAC in ASCVD Relation to Bone Density & Osteoporosis

1:00 pm INOCA, MINOCA and Everything in Between

1:20 pm The Role of Inflammation and its Management in Cardiometabolic Diseases

1:40 pm – 1:55 pm Panel Discussion and Q&A

Matthew J. Budoff, MD

Martha Gulati, MD

Norman E. Lepor, MD

Session 18

The Intersection of Obesity and T1D

Chairs: Richard E. Pratley, MD • Tracey L. McLaughlin, MD, MS

1:55 pm The Role and Safety of SGLT2i and GLP1ra Therapy in T1D

2:15 pm The Physiopathology of Insulin Sensitivity & Secretion Early Stages of T1D

2:35 – 2:45 pm Panel Discussion and Q&A

2:45 pm – 2:55 pm Refreshment Break at the Exhibit Hall

Schafer Boeder, MD

Alfonso Galderisi, MD, PhD

Session 19

State of the Art of Dyslipidemia

Chairs: Paul S. Jellinger, MD • Chris K. Guerin, MD

2:55 pm Electronegative Pro-Inflammatory LDL and CVD Risk

3:15 pm The Impact of Triglycerides on Cardiovascular Disease

3:35 pm Lipoprotein(a): Ready for Prime Time

3:55 - 4:10 pm Panel Discussion and Q&A and Post-CME Questions

Ronald M. Krauss, MD

Ira J. Goldberg, MD

Nathan D. Wong, PhD

SATURDAY, DECEMBER 14 (CONT.)

Session 20 Diets & Weight Loss

Chairs: Ronald M. Krauss, MD • Derek LeRoith, MD, PhD

4:10 pm	Time Restricted Eating: Evidence from Recent Randomized Controlled Trials	Pam R. Taub, MD
4:30 pm	Contemporary Understanding of (or the Science of) Weight Loss Plateau	Kevin D. Hall, PhD
4:50 pm – 5:00 pm	Panel Discussion and Q&A	

Session 21 Clinical Workshop

CHEESE & WINE WILL BE SERVED

5:00 pm	Lipids	Sierra B	Paul S. Jellinger, MD, and Paul D. Rosenblit, MD, PhD
	DM	Club	George Grunberger, MD
	HTN/CKD	Hiro	Christian W. Mende, MD
5:45 pm	Adjourn		

22ND WCIRDC PROGRAM COMMITTEE

Richard N. Bergman, PhD	Chris K. Guerin, MD	Tracey L. McLaughlin, MD, MS
Zachary T. Bloomgarden, MD, MACE	Yehuda Handelsman, MD Chair	Christian W. Mende, MD
Matthew J. Budoff, MD	Ania M. Jastreboff, MD, PhD	Erin D. Michos, MD, MHS
Sonia Caprio, MD	Paul S. Jellinger, MD, MACE	Jorge Plutzky, MD
Robert J. Chilton, DO	Samuel Klein, MD	Richard E. Pratley, MD
Ralph A. DeFronzo, MD	Mikhail N. Kosiborod, MD	Philipp E. Scherer, PhD
Vivian A. Fonseca, MD	Ronald M. Krauss, MD	Bart Staels, PhD
W. Timothy Garvey, MD	Norman E. Lepor, MD	Pam R. Taub, MD
Peter J. Grant, MD	Derek LeRoith, MD, PhD	Matthew R. Weir, MD
Jennifer B. Green, MD	Ildiko Lingvay, MD, MPH, MSCS	Paul Zimmet, MD, PhD
Stephen J. Greene, MD	Christos S. Mantzoros, MD, Dsc, PhD h.c. mult.	Renee Asp, BS
George Grunberger, MD	Nikolaus Marx, MD	



FACULTY 2024



Yehuda Handelsman, MD, Chair, FACP, FNLA, FASPC, FAHA, MACE

Medical Director & Principal Investigator
The Metabolic Institute of America
Chair Scientific Advisory Board
DCMi- Diabetes CardioRenal & Metabolism Institute
Chair & Program Director 22nd WCIRDC
Tarzana, California



Richard N. Bergman, PhD

Alfred Jay Firestein Chair in Diabetes Research
Professor, Department of Biomedical Sciences
and Medicine
Cedars-Sinai Medical Center
Director of Diabetes and Obesity Wellness
and Research Center
Professor-in-Residence, UCLA
Professor Emeritus USC
Los Angeles, California



Zachary T. Bloomgarden, MD, MACE

Clinical Professor, Department of Medicine Icahn School
of Medicine
Mount Sinai Editor, The Journal of Diabetes Fellow
The American Society for Preventive Cardiology
New York, New York



Schafer Boeder, MD

Associate Professor of Medicine
Division of Endocrinology and Metabolism
University of California, San Diego
Clinical Diabetes Research Group
San Diego, California



Matthew J. Budoff, MD, FACC, FAHA

Professor of Medicine,
David Geffen School of Medicine at UCLA
Endowed Chair of Preventive Cardiology, Lundquist
Institute at Harbor-UCLA Medical Center
Program Director of Cardiac CT, Division of Cardiology
Harbor-UCLA Medical Center
Torrance, California



Alice YY Cheng, MD, FRCPC

Endocrinologist, Trillium Health Partners, and Unity
Health Toronto
Associate Professor, University of Toronto.
Chair of the Scientific Planning Committee
American Diabetes Association
Associate Editor for Diabetes Care
Co-host of the podcast series "Diabetes Care On Air"
Toronto, Canada



David Cherney, MD, PhD

Professor of Medicine
Clinician Scientist - Division of Nephrology
University Health Network
Senior Scientist, Toronto General Hospital
Research Institute
Director, Renal Physiology Laboratory
University Health Network
Toronto, Ontario



Robert J. Chilton, DO, FACP, FACC, FAHA MACOI, FASCAI

Professor of Medicine, Division of Cardiology
Associate Program Director, Interventional Cardiology
The University of Texas Health Science Center
San Antonio, Texas



Kelly L. Close, MBA

Founder and President of Close Concerns
Founder and Editor of Chief of The diaTribe Foundation
San Francisco, California



Ralph A. DeFronzo, MD

Professor of Medicine
Chief, Diabetes Division
The University of Texas Health Science Center
Deputy Director, Texas Diabetes Institute
San Antonio, Texas



Ronald M. Evans, PhD

Professor and Director Gene Expression
Laboratory March of Dimes
Chair in Molecular and Developmental Biology
La Jolla, California



Vivian A. Fonseca, MD, FRCP

Professor of Medicine and Pharmacology
Assistant Dean for Clinical Research
Tullis Tulane Alumni Chair in Diabetes
Chief, Section of Endocrinology,
Tulane University Medical Center
Past President, American Diabetes Association
Science and Medicine
Board of Directors, American Association of Clinical
Endocrinologists
Board of Trustees, American College of Endocrinology
New Orleans, Louisiana



Alfonso Galderisi, MD, PhD

Assistant Professor of Pediatrics
Yale School of Medicine
New Haven, Connecticut



W. Timothy Garvey, MD

Charles E. Butterworth, Jr., Professor
and University Professor
Department of Nutrition Sciences
University of Alabama at Birmingham
Director, UAB Diabetes Research Center
Birmingham, Alabama



Ira J. Goldberg, MD

Professor of Medicine and Director
Division of Endocrinology
Diabetes and Metabolism, New York University
Langone Medical Center
Clarissa and Edgar Bronfman, Jr. Professor of Medicine
New York, New York



Peter J. Grant, MBChB, MD, FRCP, FMedSci

Professor of Medicine and Diabetologist
Honorary Consultant Physician,
Leeds Teaching Hospitals NHS Trust,
Division of Cardiovascular & Diabetes Research
University of Leeds
Leeds, United Kingdom



Jennifer B. Green, MD

Professor of Medicine in the Division of Endocrinology
Faculty Member of the Duke Clinical Research Institute
Publications Committee
Co-Chair Executive Committee Member for GRADE
Duke University
Durham, North Carolina



Stephen J. Greene, MD

Associate Professor of Medicine, Division of Cardiology
Co-Director, Duke Heart Failure Medication Titration Clinic
Duke Clinical Research Institute
Duke University School of Medicine
Durham, North Carolina



George Grunberger, MD, FACP, MACE

Chairman, Grunberger Diabetes Institute
Clinical Professor, Internal Medicine and Molecular
Medicine & Genetics,
Wayne State University School of Medicine
Professor, Internal Medicine Oakland University William
Beaumont School of Medicine
Visiting Professor, Internal Medicine
First Faculty of Medicine, Charles University, Prague,
Czech Republic
Bloomfield Hills, Michigan



Chris K. Guerin, MD, FACE, FEAA

Investigator at AMCR Institute
Escondido, California



Maritha Gulati, MD, MS, FACC, FAHA, FASPC, FESC

Director of Preventative Cardiology Associate Director
Barbra Streisand Women's Heart Center
Associate Director, Preventive and
Cardiac Rehabilitation Center
Cedars-Sinai Medical Center's Smidt Heart Institute
Principal Investigator, St. James Women Take Heart
Project Past CardioSmart
Editor-in-Chief, American College of Cardiology
Los Angeles, California



Kevin D. Hall, PhD

Senior Investigator
National Institute of Diabetes & Digestive & Kidney
Diseases (NIDDK)
Bethesda, Maryland

FACULTY 2024



Narimon Honarpour, MD, PhD
Senior Vice President, Global Development
Amgen



Ania M. Jastreboff, MD, PhD
Associate Professor of Medicine & Pediatrics
Endocrinology & Pediatric Endocrinology
Director, Yale Obesity Research Center (Y-Weight)
Co-Director, Yale Center for Weight Management
Yale University School of Medicine
New Haven, Connecticut



Paul S. Jellinger, MD, MACE
The Center for Diabetes & Endocrine Care
Professor of Clinical Medicine
Voluntary Faculty
University of Miami
Hollywood, Florida



Michelle M. Kittleson, MD, PhD
Professor of Medicine
Director of Education in Heart Failure and Transplantation
Smidt Heart Institute, Cedars-Sinai
Los Angeles, California



Samuel Klein, MD
Director, Center for Human Nutrition
Chief Scientific Officer, Sansum Diabetes
Research Institute
Washington University School of Medicine
Saint Louis, Missouri



Mikhail N. Kosiborod, MD, FACC, FAHA
Vice President of Research
Endowed Chair in Cardiovascular Research
Saint Luke's Health System
Executive Director, Cardiometabolic Center Alliance
Co-Director the Haverly Cardiometabolic Center of
Excellence
Saint Luke's Mid-America Heart Institute
Professor of Medicine, University of Missouri
Kansas City, Missouri



Csaba P. Kovcsy MD, FASN
The Fred Hatch Professor of Medicine
Chief of Nephrology
University of Tennessee Health Science Center
Memphis, Tennessee



Ronald M. Krauss, MD
Professor of Pediatrics and Medicine, UCSF
Adjunct Professor, Department of Nutritional Sciences
University of California, Berkeley
Berkeley, California



Norman E. Lepor, MD, FACC, FAHA
Founder and Director, National Heart Institute
Past President, California Chapter
American College of Cardiology
Clinical Professor of Medicine
Geffen School of Medicine UCLA
Attending Cardiologist, Smidt Cedars-Sinai Heart Institute
Los Angeles, California



Derek LeRoith, MD, PhD, FACP
Professor of Medicine
Director of Research
Division of Endocrinology, Diabetes & Bone Disease
Department of Medicine
Icahn School of Medicine at Mt. Sinai
New York, New York



Ildiko Lingvay, MD, MPH, MSCS
Professor of Medicine
Department of Internal Medicine
Division of Endocrinology
Department of Population and Data Science
Medical Director, Office of Clinical Trials
Management (OCTM)
University of Texas Southwestern
Dallas, Texas



Gary D. Lopaschuk, PhD
Professor, Department of Pediatrics
Faculty of Medicine & Dentistry
University of Alberta
Edmonton, Alberta



Christos S. Mantzoros, MD, DSc, PhD h.c. mult.
Professor of Medicine, Harvard Medical School
and Boston University School of Medicine
Chief of Endocrinology, Diabetes, and Metabolism
Boston VA Healthcare System
Director of Human Nutrition
Beth Israel Deaconess Medical Center
Editor-in-Chief, Metabolism, Clinical & Experimental
Harvard, Massachusetts



Tracey L. McLaughlin, MD, MS
Professor of Medicine, Division of Endocrinology
Clinician Investigator
Stanford University School of Medicine
Stanford, California



Christian W. Mende, MD, FACP, FACN, FASN, FAHA
Clinical Professor of Medicine
University of California San Diego
Associate Editor of The Journal Diabetes
San Diego, California



**Erin D. Michos, MD
MHS, FACC, FAHA, FASE, FASPC**
Professor of Medicine
Director of Women's Cardiovascular Health
Associate Director of Preventive Cardiology
Division of Cardiology
Johns Hopkins University School of Medicine
Co-Director, IMPACT Center at JHU
Co-Editor in Chief, American Journal
of Preventive Cardiology
Baltimore, Maryland



Sonia M. Najjar, MS, PhD
OHF John J. Kopchick Ph.D., Endowed Eminent
Research Chair
Professor, Department of Biomedical Sciences
Heritage College of Osteopathic Medicine
Ohio University
Athens, Ohio



Jorge Plutzky, MD
Director, Preventive Cardiology
Cardiovascular Medicine
Brigham and Women's Hospital
Harvard Medical School
Boston, Massachusetts



Robert Pordy, MD, FACP, FNLA
Vice President, Clinical Sciences - Internal Medicine
Regeneron Pharmaceuticals
Tarrytown, New York



Richard E. Pratley, MD
Samuel E. Crockett Chair in Diabetes Research
Medical Director, Advent Health Diabetes Institute
Senior Investigator and Diabetes Program Lead
Advent Health Translational Research Institute
Adjunct Professor of Medicine
Johns Hopkins University School of Medicine
Orlando, Florida



Peter D. Reaven, MD
Professor of Clinical Medicine
University of Arizona College of Medicine
Staff Endocrinologist
Phoenix VA Health Care System
Phoenix, Arizona



Katja Rohwedder, MD
Senior Physician Global Medical Affairs
Heart and Kidney
Bayer AG
Berlin, Germany



FACULTY 2024



Paul D. Rosenblit, MD, PhD, FACE, FNLA

Clinical Professor, Medicine Division of Endocrinology
Diabetes, Metabolism University of California
Irvine School of Medicine Co-Director
Diabetes Outpatient Clinic UCI Medical Center, Orange,
CA Director, & Site Principal Investigator
Diabetes Lipid Management & Research Center
Huntington Beach, California
Clinical Professor, Medicine Division of
Endocrinology, Diabetes
Metabolism University of California
Irvine School of Medicine Co-Director
Diabetes Outpatient Clinic UCI Medical Center, Orange,
CA Director, & Site Principal Investigator
Diabetes Lipid Management & Research Center
Huntington Beach, California



Peter Rossing, MD, DMSc

Professor Department of Clinical Medicine
University of Copenhagen
Steno Diabetes Center Copenhagen
Herlev, Denmark



Jerome I. Rotter, MD

Director, The Institute for Translational Genomics
and Population Sciences
The Lundquist Institute for Biomedical Innovation
Harbor-UCLA Medical Center
Director, Division of Genomic Outcomes
Departments of Pediatrics Harbor-UCLA Medical Center
Distinguished Professor of Pediatrics and Human
Genetics, UCLA
Chair, MESA Genetics Committee
Los Angeles, California



Philipp E. Scherer, PhD

Professor and Director, Touchstone Diabetes Center
The University of Texas Southwestern Medical Center
Dallas, Texas



Jay H. Shubrook, DO, FACOPP, FAAFP

Professor and Director of Clinical Research at Touro
University California
College of Osteopathic Medicine
Associate Editor for Clinical Diabetes and for the Journal
of the American Osteopathic Association.
Vallejo, California



Gerald I. Shulman, MD, PhD, MACP, MACE, FRCP

George R. Cowgill Professor of Medicine (Endocrinology)
Professor of Medicine and Cellular & Molecular
Physiology
Co-Director Yale Diabetes Research Center
Investigator Emeritus, Howard Hughes Medical Institute
New Haven, Connecticut



Michael J. Sole, BSc Hons, MD FRCPC, FACC FAHA, FCAHS, FCCS

Division of Cardiology, Peter Munk Cardiac Centre,
Emeritus Scientist, Toronto General Hospital
Research Institute
Professor Emeritus, Medicine and Physiology
University of Toronto
Toronto, Canada



Emily Sonestedt, MSc, PhD

Associate Professor in Nutritional Epidemiology
Head of the Nutritional Epidemiology Research Group
Lund University
Associate Professor in Food and Meal Science
Kristianstad University
Lund, Sweden



Laurence S. Sperling, MD FACC, FAHA, FACP, MASPC

Founder, Emory Center for Heart Disease Prevention
Katz Professor in Preventive Cardiology
Emory University School of Medicine
Professor of Global Health, Rollins School of Public Health
Executive Director, Million Hearts
Centers for Disease Control and Prevention
Centers for Medicare and Medicaid Services
Atlanta, Georgia



Bart Staels, PhD

Co-founder of GENFIT
Chairman of the Scientific Advisory Board
Full Professor, Faculty of Pharmacy, University de Lille
Director, Inserm UMR1011, Institut Pasteur de Lille
Lille, France



Pam R. Taub, MD, FACC, FASPC

Director of Preventive Cardiology
Founder & Director of Step Family Foundation
Cardiovascular Rehabilitation and Wellness Center
Professor of Medicine
UC San Diego Health System
Division of Cardiovascular Medicine
La Jolla, California



Raymond R. Townsend, MD, FAHA

Professor of Medicine and Associate Director
The Clinical and Translational Research Center
University of Pennsylvania
Philadelphia, Pennsylvania



Katherine R. Tuttle, MD, FASN, FACP, FNKF

Executive Director for Research
Providence Inland Northwest Health
Professor of Medicine
University of Washington
Chair of the Diabetic Kidney Disease Collaborative
American Society of Nephrology
Member of the Cardio-Kidney-Metabolic working group
The American Heart Association
Seattle, Washington



Muthiah Vaduganathan, MD, MPH, FACC, FHFA

Cardiologist and Clinical Trialist
Brigham and Women's Hospital
Harvard Medical School
Co-Director, Center for Cardiometabolic
Implementation Science
Associate Editor of JACC
US National Ambassador to the
ESC Heart Failure Association
Boston, Massachusetts



Orly Vardeny, PharmD, MS

Professor of Medicine University of Minnesota
Minneapolis, Minnesota



Matthew R. Weir, MD

Professor and Chief, Division of Nephrology
Department of Medicine
University of Maryland School of Medicine
Baltimore, Maryland



Nathan D. Wong, PhD, MPH

Professor and Director, Heart Disease Prevention Program
Mary and Steve Wen Cardiovascular Division
University of California,
Irvine School of Medicine
Adjunct Professor of Epidemiology, UC Irvine and UCLA
Past President, American Society for
Preventive Cardiology,
Pacific Lipid Association, and
InterAmerican Heart Foundation
Co-Editor in Chief, American Journal of
Preventive Cardiology
Irvine, California



Paul Zimmet, MD, PhD

Professor of Diabetes, Monash University
Honorary President, International Diabetes Federation
Co-Director, The Sagol Center for Epigenetics of
Metabolism and Ageing,
Tel Aviv Medical Center
Doctor of Laws, Honoris Causa (Monash)
Doctor Philosophiae Honoris Causa (Tel Aviv University)
Honoris Causa Doctoris, Complutense University (Madrid)
Doctor of the University, Honoris Causa (Adelaide)
Doctor of Philosophy, Umea University (Sweden)
Melbourne, Australia



22ND WCIRDC ASSOCIATE ORGANIZATIONS AND MEDIA PARTNERS

ASSOCIATED ORGANIZATIONS

Premier Associated Organizations

- (CAACC) California Chapter of the American College of Cardiology
- (CACE) Clinical Association of California Endocrinologists
- (ASPC) American Society for Preventive Cardiology

Associated Organizations

- (ESC) European Society of Cardiology
- (WOF) World Obesity Foundation
- (SFE) Society for Endocrinology
- (ASEPA) American Society of Endocrine Physician Assistants
- (KHRS) Korean Heart Rhythm Society
- (ADCES) Association of Diabetes Care & Educations Specialists
- (IFSO) International Federation for the Surgery of Obesity and Metabolic Disorders
- (ENS) Endocrine Nurses Society
- (IES) Israel Endocrine Society
- (NKFA) National Kidney Foundation
- (ASPO) American Society of Preventive Oncology
- (SVS) Society for Vascular Surgery
- (CRSA) Cardiorenal Society of America
- (NLA) National Lipid Association
- (FHF) Family Heart Foundation

MEDIA PARTNERS

Premier Media Partners

- Metabolism- Clinical and Experimental
- American Heart Journal
- Circulation Journal
- Healio
- AJMC Managed Markets Network
- Closed Concerns

Media Partners

- MJH Life Sciences
- Journal of Cardiovascular Ageing
- Practical Cardiology
- Endocrinology Network
- HCP Live
- Nutrients Open Access Journal
- VenueDir
- MDPI
- Cardiovascular, Endocrinology, and Metabolism Journal
- CN1699 Media
- Vessel Plus
- Journal of Clinical Medicine
- Diabetes in Control Journal
- Physician's Weekly
- Frontiers

**THE INTERNATIONAL COMMITTEE FOR
INSULIN RESISTANCE GRATEFULLY ACKNOWLEDGES**

EDUCATIONAL SUPPORT

ASTRAZENECA

LEXICON

AMGEN

BAYER AG

BOEHRINGER INGELHEIM

CORCEPT THERAPEUTICS

NOVO NORDISK

CORPORATE SUPPORT

OPAL LEVEL

Lilly

A MEDICINE COMPANY



EMERALD LEVEL



TOPAZ LEVEL





9th Annual Heart in Diabetes

"Where the heart, kidney, and diabetes meet in clinical practice."

EARN
CME
ABIM-MOC
CREDITS

JUNE 6-8, 2025

SAVE-THE-DATE



Philadelphia
PENNSYLVANIA



Join us for another state-of-the-art meeting focusing on the newest scientific data and its clinical implications to practice.

heartindiabetes.com/registration



@heartindiabetes



23rd WCIRDC

World Congress Insulin Resistance DIABETES & CARDIOVASCULAR DISEASE

Exploring New Frontiers in Metabolism - Tomorrow's Clinical Science Today

SAVE-THE-DATE

December 4-6, 2025

Hilton Universal, Los Angeles
555 Universal Hollywood Dr
Universal City, CA 91608



wcir.org



@wcirdc

SUPPORT · REGISTRATION · ACCOMMODATIONS · EXHIBITION

818.342.1889 | 818.342.1538 | info@tmioa.com

www.wcir.org

Metabolic Endocrine Education Foundation (MEEF)
638 Lindero Canyon Dr Suite #380 Oak Park, CA 91377