

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

Cardio-Renal Metabolic Dialogues Live | Therapeutic Strategies for Cardio-Renal Metabolic Disease: 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 Cardio-renal Metabolic Disease: Harnessing the Potential of SGLT2 Inhibitors and Aldosterone Synthase Inhibitor

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

7:41 am Tailoring Treatment for Cardio-renal Metabolic Disease: Navigating Complex Interactions

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 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
11:00 am HFpEF in Women and Sex-specific Response to Therapies
11:20 am Worsening Heart Failure: Nomenclature, Epidemiology, and Future Directions
11:40 am -11:55 am Panel Discussion and Q&A

Peter J. Grant MD
Erin D. Michos, MD, MHS
Stephen J. Greene, MD

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
Zepbound- (Tirzepatide) Injection

Non-CME Education

Sierra Ballroom B



Matthew J. Budoff, MD

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Session 5 Technology Impact on Health

Chairs: George Grunberger, MD • Chris 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 Novel uses of CGM - Identifying Metabolic Subphenotypes & Addressing People With No Diabetes

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
2:45 pm Loss of CEACAM1 in Endothelial Cells Causes Hepatic Fibrosis
3:05 pm EAT-Lancet diet and prevention of cardiorenal metabolic diseases
3:25 pm Cardiac insulin resistance in diabetic cardiomyopathy
3:45 pm – 4:00 pm Panel Discussion and Q&A

Christos S. Mantzoros, MD, DSc, PhD
Sonia M. Najjar, MD
Emily Sonestedt, Msc, PhD
Gary Lopaschuk, PhD

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 B. Bloomgarden, MD • Stephen J. Greene, MD
George Grunberger, MD • Paul S. Jellinger, MD • Samuel Klein, MD • Christos S. Mantzoros, MD, DSc, PhD
Erin D. Michos, MD, MHS • Richard E. Pratley, MD**
Panel Discussion and Q&A

5:15 pm

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

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Sierra Ballroom B

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	Stephen J. Greene, MD
7:55 pm	Diabetes & CRM Approach to Comorbidities	Peter Rossing, MD, DMSc
8:15 pm	Heart Failure & Cardiomyopathy- Addressing Etiologies	Michelle M. Kittleson, MD, PhD
8:35 pm	The Treatment of CKD and Heart Failure Circa 2024	Katherine R. Tuttle, MD
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	

WCIRDC PROGRAM 2024

Friday, December 13, 2024

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:
BMF-219 and a look into the Future of Diabetes Management



Juan Pablo Frías, MD • Rohit Kulkarni, MD, PhD • Alice Cheng, MD

Supported by **Biomea Fusion**

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 **Csaba P. Kovesdy, MD**
Cardiology **Laurence S. Sperling, MD**
Endocrinology **Ania M. Jastreboff, MD, PhD**
SELECT Outcome implication on Practice **Ildiko Lingvay, MD**
Panel Discussion and Q&A After Each Speaker

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

Session 10 Sarcopenia Association with Obesity- Myth & Reality

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

10:35 am Debate: Sarcopenia is a Real Concern
No Samuel Klein, MD
Yes Richard E. Pratley, MD

11:05 am – 11:20 pm 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
Title: TBA Speaker: TBD

Supported by **Corcept Therapeutics**

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 New advances in obesity associated Insulin Resistance **Ron Evans, PhD**

2:10 pm – 2:50 pm Panel Discussion and Q&A

2:50 pm – 4:05 pm Refreshment Break at the Exhibit Hall

3:15 pm – 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



Pamela Kushner, MD • Samuel Klein, MD • Pam R. Taub, MD

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Session 13 **A Glimpse into the Future - What's in the Pipeline?**

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

4:05 pm Regeneron **Robert Pordy, MD**
4:20 pm Bayer **Markus Scheerer, BSc, MS, PhD**
4:35 pm Amgen **E. Magnus Ohman, MD**
4:50 pm - 5:05 pm Panel Discussion and Q&A

Session 14 **Diabetes - Genetics & Dementia**

Chairs: Ildiko Lingvay, MD • Chris Guerin, MD

5:05 pm T2D Genome-Wide Association Study (GWAS), Polygenic Risk Scores, and Genetic Subclusters Elucidate the Heterogeneity of T2D. **Jerome Rotter, MD**
5:25 pm Diabetes, Drugs, and Dementia **Alice 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:**

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Sierra Ballroom B

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 **Matthew J. Budoff, MD**
6:15 pm Controlling Hyperglycemia in Today's T1D- Challenges and Solutions **Richard E. Pratley, MD**
6:30 pm Contemporary T1D- Obesity and Cardiometabolic Complications **Matthew J. Budoff, MD**
6:45 pm CKD in T1D the role of the SGLT1/2i Sotgliflozin **David Cherney MDCM, PhD**
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 MDCM, PhD • Richard E. Pratley, MD
Moderator: Yehuda Handelsman, MD
Post-CME Questions & Concluding Remarks
7:30 pm Adjourn

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

WCIRDC PROGRAM 2024

Saturday, December 14, 2024

7:00 am **Registration & Coffee**

7:40 am – 7:55 am Summary of Day 2 & Pre-CME Questions

Zachary T. Bloomgarden, MD

7:55am – 8:00 am **Oral Abstract Winners Award Presentation**

Zachary T. Bloomgarden, MD

8:00 - 9:00 am **BREAKFAST CME SYMPOSIUM**

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Sierra Ballroom CD

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

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

8:00 am **Introduction**

Muthiah Vaduganathan, MD, MPH

8:05 am Moonraker- Overview of the Investigators Led Research Program

Mikhail N. Kosiborod, MD

8:20 am FINEARTS-HF - Finerenone in Heart Failure with EF > 40%

Akshay Desai, MD, MPH

8:35 am FINE-HEART - Finerenone in Heart Failure and Chronic Kidney Disease Trials

Muthiah Vaduganathan, MD, MPH

8:50 am **Panel Discussion- The Crystal Ball- ns MRA in the Guidelines**

Panel: Akshay Desai, MD, MPH • Muthiah Vaduganathan, MD, MPH

Moderator: Mikhail N. Kosiborod, MD

9:00 am Adjourn

Session 15 Gerald Reaven Distinguished Leader in Insulin Resistance 2024 Award

9:00 am Award Presentation by **Vivian A. Fonseca, MD • Peter J. Grant MD**

9:05 am A Belated Pathway Towards Obesity Medicine: from Frustration to an Era of Drug Development that is Landmark in the History of Medicine



W. Timothy Garvey, MD

9:35 -9:40 am Q & A

9:40 am – 9:50 am Refreshment

Session 16 Emerging Topics in Cardiometabolic Diseases

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

9:50 am CVOTs Update focus on HF

Mikhail N. Kosiborod, MD

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

Vivian A. Fonseca, MD

10:25 am MRA in Cardiorenal Translational Biology- Implications to Practice

Robert J. Chilton, DO

10:45 am Hypercortisolism Impact on Diabetes and Cardiometabolic Diseases

Ralph A. DeFronzo, MD

11:05 am CATALIST – Hypercortisolism in Hard to Control Diabetes - Final Results

Vivian A. Fonseca, MD

11:20 am – 11:35 am Panel Discussion and Q&A

11:35 am – 12:35 pm Lunch Break & Check-Out

11:45 am – 12:30 pm **Lunch Session**
Mounjaro® (tirzepatide)

Non-CME Education

Sierra Ballroom B



Carol H. Wysham, MD

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Session 17 Important Issues in Cardiovascular Disease

Chairs: Robert Chilton, DO • Mikhail N. Kosiborod, MD

12:35 pm	CAC in ASCVD Relation to Bone Density & Osteoporosis	Matthew J. Budoff, MD
12:55 pm	INOCA, MINOCA and Everything in Between	Martha Gulati, MD
1:15 pm	The Role of Inflammation and its Management in Cardiometabolic Diseases	Norman E. Lepor, MD
1:35 pm – 1:50 pm	Panel Discussion and Q&A	

Session 18 The Intersection of Obesity and T1D

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

1:50 pm	The Role and Safety of SGLT2i and GLP1ra Therapy in T1D	Schafer Boeder, MD
2:10 pm	The Physiopathology of Insulin Sensitivity & Secretion Early Stages of T1D	Alfonso Galderisi, MD
2:30 pm – 2:40 pm	Panel Discussion and Q&A	

2:40 pm – 2:50 pm Refreshment

Session 19 State of the Art of Dyslipidemia

Chairs: Paul S. Jellinger, MD • Pam R. Taub, MD

2:50 pm	Electronegative Pro-Inflammatory LDL and CVD Risk	Ronald M. Krauss, MD
3:10 pm	The Impact of Triglycerides on Cardiovascular Disease	Ira Goldberg, MD
3:30 pm	Lipoprotein(a): Ready for Prime Time	Nathan D. Wong, PhD
3:50 - 4:05 pm	Panel Discussion and Q&A and Post-CME Questions	

Session 20 Diets & Weight Loss

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

4:05 pm	Time Restricted Eating: Evidence from Recent Randomized Controlled Trials	Pam R. Taub, MD
4:25 pm	Contemporary Understanding of (or the Science of) Weight Loss Plateau	Kevin Hall, PhD
4:45 pm – 4:55 pm	Panel Discussion and Q&A	

Session 21 Clinical Workshop (Wine and cheese will be served.)

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

5:45 pm Adjourn