



**84TH SCIENTIFIC
SESSIONS**

Program Information

June 21-24, 2024



Welcome to the **American Diabetes Association's** hybrid **84th Scientific Sessions** in sunny Orlando.

As the world's largest meeting on diabetes, the Scientific Sessions is both a leading educational gathering and a unique opportunity to network with colleagues from over 115 countries. We couldn't be more excited to reconnect and accelerate progress towards preventing and curing diabetes and improving the lives of all people affected by diabetes.

This guide includes maps and the day-at-a-glance schedule. **For full program details, use the online planner/mobile app.** The 84th Scientific Sessions app is compatible with iOS and Android devices.

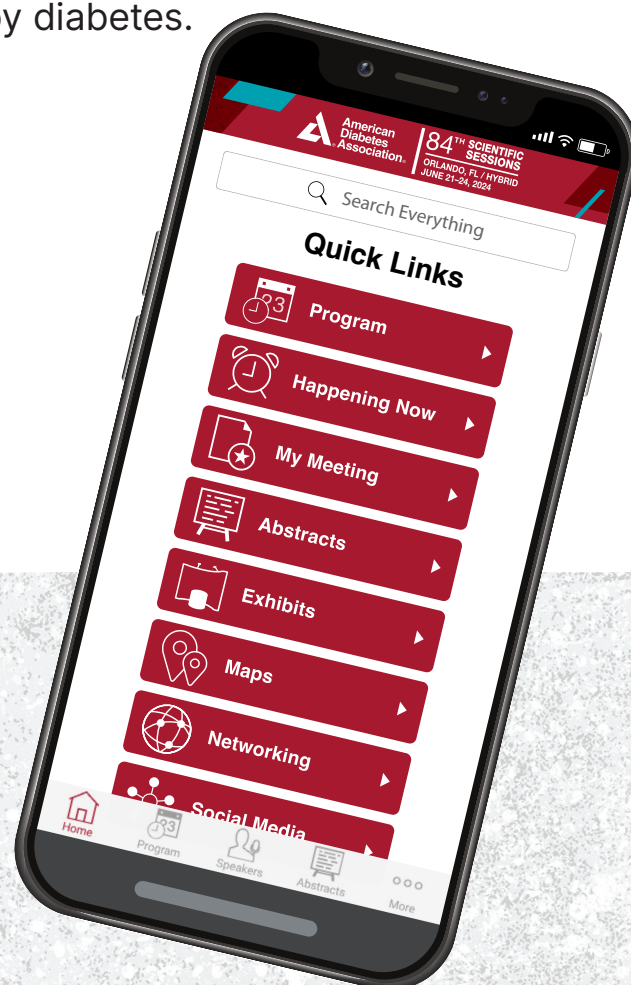


Table of Contents

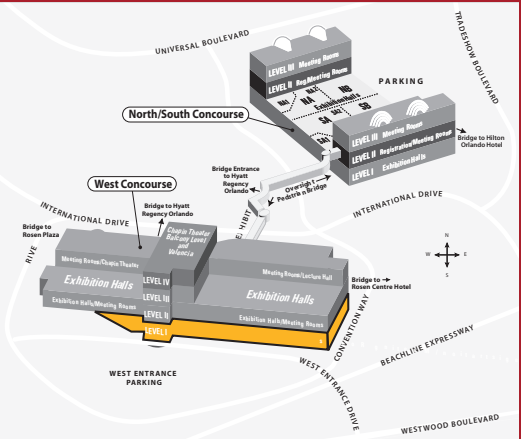
02	Maps
10	Day at a Glance
10	Friday, June 21
14	Saturday, June 22
22	Sunday, June 23
30	Monday, June 24
36	Notes

Scan to view the
Online Planner



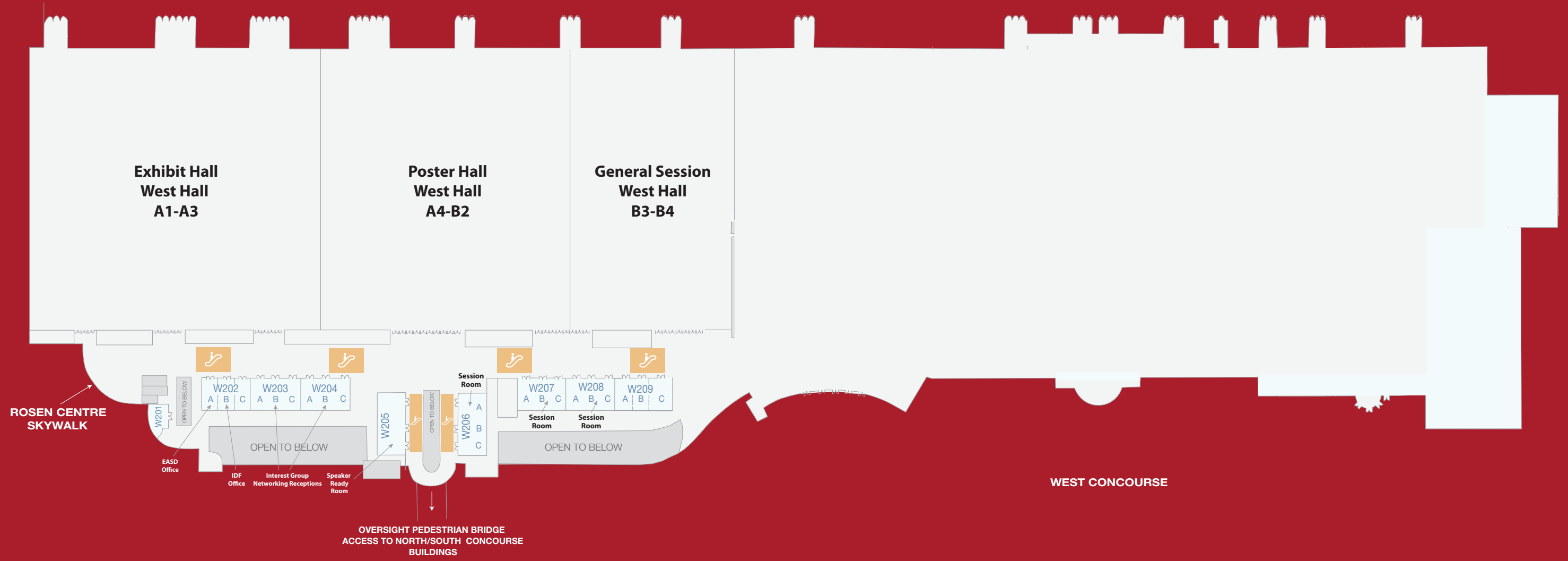
Orlando Convention Center

West Concourse Level 1



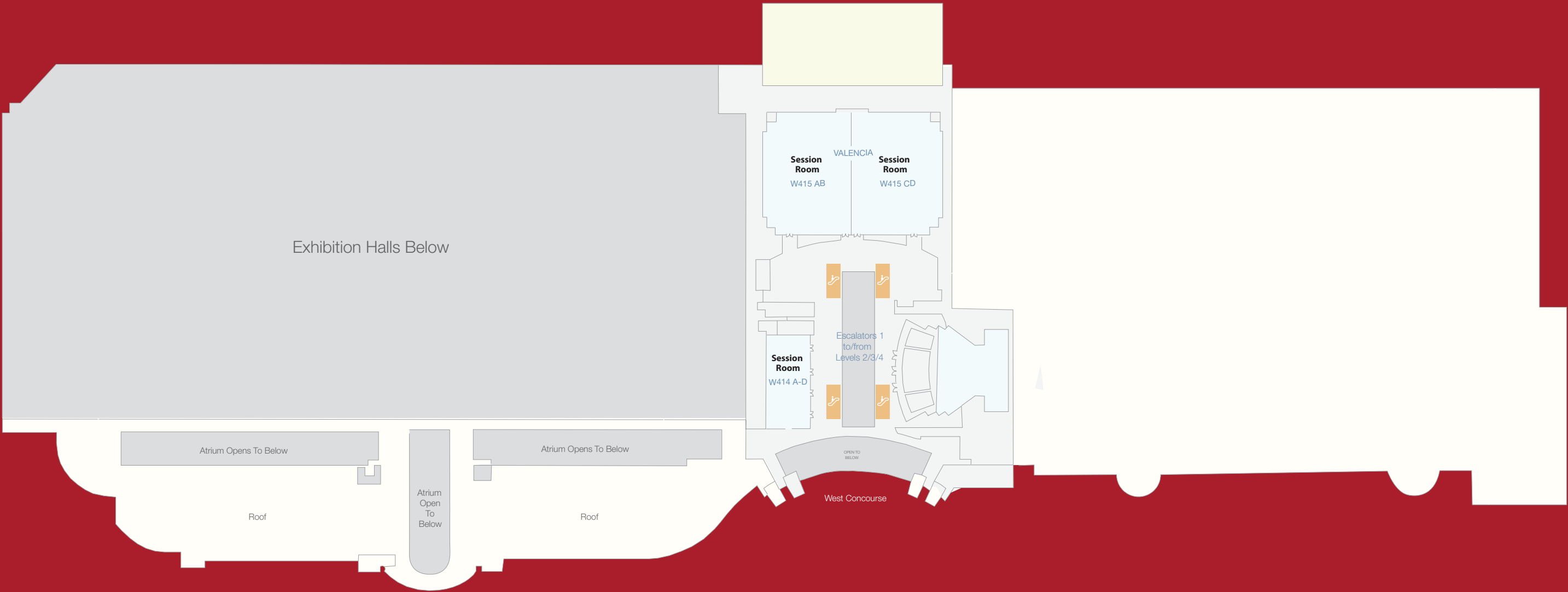
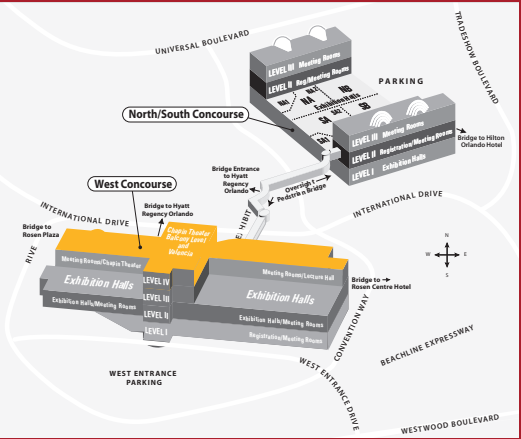
Orlando Convention Center

West Concourse Level 2



Orlando Convention Center

West Concourse Level 4



	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics
10:30 a.m.–11:30 a.m.	KEYNOTE ADDRESS AND PANEL DISCUSSION Welcome to the 84 th ADA Scientific Sessions —Keynote Address by Robert M. Califf, MD and Panel Discussion (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)			
11:30 a.m.–12:30 p.m.	PATHWAY SYMPOSIUM “Pathway to Stop Diabetes” (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)			
12:45 p.m.–1:45 p.m.	ORAL PRESENTATIONS AC-OR06-1 Multiorgan Cross Talk in Lipid Metabolism Room: W206	ORAL PRESENTATIONS BM-OR04-1 Exploring the Impact of Food/Food Additives on Insulin Sensitivity and Postprandial Glucose (With ADA Presidents’ Select Abstract Presentation) Room: W315 ORAL PRESENTATIONS BM-OR06-1 Tools for Health Care Professionals That Assist in Personalizing Care Room: W314 ORAL PRESENTATIONS BM-OR08-1 Back to the Basics (Sciences) of Exercise and Diabetes Room: W304 E-H	ORAL PRESENTATIONS CT-OR03-1 Practicable Methods to Improve Metabolic Parameters Room: W311	DEBATE EG-DB01-1 Race and Ethnicity-Based Cut Points in Diabetes Screening and Diagnosis—Benefit or Harm for Reducing Disparities? (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)
	ORAL PRESENTATIONS AC-OR11-1 Metabolic Pathways to Protection—Innovative Approaches in Diabetes-Induced Kidney Disease Room: W207		ORAL PRESENTATIONS CT-OR11-1 Diabetes Potpourri Room: W415C (Valencia Ballroom)	
	ORAL PRESENTATIONS AC-OR13-1 Innovative Approaches in Diagnosing and Managing Diabetic Neuropathy (With ADA Presidents’ Select Abstract Presentation) (INCLUDES LIVESTREAM) Room: W307		ORAL PRESENTATIONS CT-OR16-1 New Technology—The Inpatient Setting (INCLUDES LIVESTREAM) Room: W414	
	ORAL PRESENTATIONS AC-OR15-1 Innovations in Diabetic Eye Care—Advancements, Therapeutic Strategies, and Disease Associations Room: W208			
2:00 p.m.–3:30 p.m.	ORAL PRESENTATIONS AC-OR10-1.5 Emerging Molecular Mechanisms of ASCVD Progression in Cardiometabolic Disease (With Edwin Bierman Award Lecture) (INCLUDES LIVESTREAM) Room: W307	ORAL PRESENTATIONS BM-OR03-1.5 Exploring Dimensions of Diversity in Diabetes Distress (With Richard R. Rubin Award Lecture) (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	ASK THE EXPERT CT-AE14-1.5 How Will Artificial Intelligence Change Diabetes Clinical Practice? (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)	ORAL PRESENTATIONS EG-OR01-1.5 Diabetes and the Liver—A Canary in the Coal Mine Room: W207
			ORAL PRESENTATIONS CT-OR01-1.5 Screening for and Delaying Vascular Complications Room: W315	
			ORAL PRESENTATIONS CT-OR04-1.5 Novel Insights from CGM Use during Pregnancy Room: W208	
			ORAL PRESENTATIONS CT-OR07-1.5 New Approaches to Prevent or Reverse Diabetes Room: W415C (Valencia Ballroom)	
			ORAL PRESENTATIONS CT-OR13-1.5 New Technology—What’s New? (With ADA Presidents’ Select Abstract Presentation) Room: W311	

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
KEYNOTE ADDRESS AND PANEL DISCUSSION Welcome to the 84 th ADA Scientific Sessions —Keynote Address by Robert M. Califf, MD and Panel Discussion (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)				
PATHWAY SYMPOSIUM “Pathway to Stop Diabetes” (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)				
	ORAL PRESENTATIONS IA-OR05-1 Secreted Factors and Insulin Action Room: W304 A-D	ORAL PRESENTATIONS IP-OR06-1 New Frontier in Immunometabolism Room: W308	DEBATE IB-DB01-1 Setting the Record Straight—Does SARS-CoV-2 Cause Type 1 Diabetes? (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	
ORAL PRESENTATIONS IBC-OR01-1.5 Immune Features of Immune Therapy and Evolution—Fickle or Fixed? Room: W304 A-D	ORAL PRESENTATIONS IA-OR01-1.5 Adipocyte Differentiation and Function Room: W308	ORAL PRESENTATIONS IP-OR01-1.5 Actions of Incretins in the Brain and Beyond (INCLUDES LIVESTREAM) Room: W414 ORAL PRESENTATIONS IP-OR05-1.5 Emerging New Players in Metabolic Regulation Room: W314	ORAL PRESENTATIONS IB-OR01-1.5 Fueling the Fire—Islet Stimulus–Secretion Coupling Room: W206	

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/Therapeutics	Epidemiology/Genetics
3:45 p.m.–5:15 p.m.	SYMPOSIUM AC-SY01-1.5 Systemic Medications for Diabetic Retinopathy—Protective and Risk Factors Room: W208	SYMPOSIUM BM-SY05-1.5 Consensus or Controversy? Hot Topics in Nutrition 2024 Room: W314	CASE STUDIES CT-CS12-1.5 New Tools, Old Approaches—Rethinking Glucose Monitoring in Real-Life Settings Room: W311	SYMPOSIUM EG-SY02-1.5 United States Veterans and Diabetes—Not Gone and Not Forgotten Room: W207
	SYMPOSIUM AC-SY07-1.5 Sex and Gender Dimorphism in Cardiovascular Disease Risk in Diabetes Room: W308		ORAL PRESENTATIONS CT-OR10-1.5 Beyond Glucose and Weight Reduction—Additional Effects of Incretin-Based Therapies Room: W415C (Valencia Ballroom)	
	SYMPOSIUM AC-SY17-1.5 Joint ADA/Centers for Disease Control and Prevention Symposium—Pressure Points and Future Directions in the Prevention of Acute and Chronic Diabetes-Related Complications (INCLUDES LIVESTREAM) Room: W307		SYMPOSIUM CT-SY08-1.5 Important Safety Information—Off-Target Effects of New Therapies for Diabetes (INCLUDES LIVESTREAM) Room: W414	
5:30 p.m.–6:30 p.m.	DEBATE AC-DB05-1 Sulfonylureas in Type 2 Diabetes Management—Should They Stay or Should They Go? (INCLUDES LIVESTREAM) Room: W307	ORAL PRESENTATIONS BM-OR05-1 Medical Nutrition Therapy—Moving Beyond Traditional Outcome Measures Room: W314	ORAL PRESENTATIONS CT-OR12-1 SGLT2 Inhibition Impact on Human Physiology Room: W415C (Valencia Ballroom)	ORAL PRESENTATIONS EG-OR03-1 The New Frontier in Risk Profiling for Diabetes—Blood, Guts, and Glory Room: W207
	ORAL PRESENTATIONS AC-OR07-1 New Biomarkers to Inform Lipid Therapies in Diabetes (With ADA Presidents’ Select Abstract Presentation) Room: W206	ORAL PRESENTATIONS BM-OR07-1 Innovative Diabetes Self-Management Education across Diverse Populations Room: W308	ORAL PRESENTATIONS CT-OR17-1 New Technology—Equity and Access Room: W315	
	ORAL PRESENTATIONS AC-OR14-1 Unraveling Molecular Signatures, Biomarkers, and Methods for Neuropathy, Cognitive Decline, and Foot Ulcers Room: W208	ORAL PRESENTATIONS CT-OR18-1 Pediatric Obesity and Type 2 Diabetes Room: W311	SYMPOSIUM CT-SY35-1 Liver Health in Diabetes (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)	
6:30 p.m.–8:30 p.m.	American Diabetes Association Networking Reception Exhibit Hall (West A1-A3)			

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
SYMPOSIUM IBC-SY05-1.5 Joint ADA/IPITA Symposium—Clinical Beta-Cell Replacement Therapy Today (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	SYMPOSIUM IA-SY03-1.5 The Second Act—Redefining the Signaling Mediators of Glucose Uptake in Muscle Room: W304 A-D	SYMPOSIUM IP-SY07-1.5 CNS Effects of GLP-1RA—Beyond Diabetes and Obesity Room: W304 E-H	SYMPOSIUM IB-SY02-1.5 Taking a Closer Look—Subcellular Approaches to Islet Biology Room: W206	
ORAL PRESENTATIONS IBC-OR03-1 Immune and Adipose Tissue Intersection Room: W304 A-D	ORAL PRESENTATIONS IA-OR06-1 Clinical Efforts to Study the Pathogenesis of Insulin Resistance Room: W304 E-H		ORAL PRESENTATIONS IB-OR05-1 Islet Potpourri Oral Abstracts (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	
American Diabetes Association Networking Reception Exhibit Hall (West A1-A3)				

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics
8:00 a.m.–9:30 a.m.	<div><div><div>SYMPOSIUM AC-SY09-1.5</div><div>SELECT Trial—New Looks at Glycemia, Inflammation, and Heart Failure (INCLUDES LIVESTREAM)</div><div>Room: W415B (Valencia Ballroom)</div></div><div><div>SYMPOSIUM AC-SY12-1.5</div><div>Navigating the Spatial Landscape—Omics in Diabetic Kidney Disease</div><div>Room: W208</div></div></div>	<div><div><div>SYMPOSIUM BM-SY13-1.5</div><div>Type 2 Diabetes and Exercise—Where Do We Stand?</div><div>Room: W314</div></div><div><div>SYMPOSIUM BM-SY14-1.5</div><div>NIDDK Early Career Investigator Symposium—Leveraging Social Support to Improve Diabetes Self-Management and Health Outcomes—Innovative Methods and Interventions</div><div>Room: W311</div></div><div><div>SYMPOSIUM BM-SY15-1.5</div><div>ADA Education Recognition Program (ERP)—Diversifying Diabetes Self-Management Education and Support (DSMES) Delivery Models</div><div>Room: W304 A-D</div></div></div>	<div><div><div>PANEL CT-PN06-1.5</div><div>Newly-Diagnosed Type 2 Diabetes—What Should Be the Focus of Management in 2024? (INCLUDES LIVESTREAM)</div><div>Room: W307</div></div><div><div>PANEL CT-PN16-1.5</div><div>The Role of the Interdisciplinary Team in Technology Onboarding in Primary Care</div><div>Room: W415C (Valencia Ballroom)</div></div><div><div>SYMPOSIUM CT-SY23-1.5</div><div>Navigating the Early Phases of Pediatric Type 1 Diabetes</div><div>Room: W315</div></div><div><div>SYMPOSIUM CT-SY27-1.5</div><div>ADA Diabetes Care Symposium—The Final Frontier—Implementing the Learning from Implementation Science</div><div>Room: W308</div></div><div><div>SYMPOSIUM CT-SY45-1.5</div><div>The Efficacy and Safety of Inhaled Insulin Used with Insulin Degludec Compared with Automated Insulin Delivery or Multiple Daily Insulin Injections in Adults with Type 1 Diabetes—Results of the INHALE-3 Randomized Trial (INCLUDES LIVESTREAM)</div><div>Room: W320 (Chapin Theater)</div></div></div>	<div><div><div>PANEL EG-PN05-1.5</div><div>Diabetes Genome-Wide Association Study—Why Keep Going?</div><div>Room: W207</div></div></div>
9:45 a.m.–11:15 a.m.	ADA Chief Executive Officer Remarks; President, Health Care & Education Address; and Outstanding Educator in Diabetes Award Lecture (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)			

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
<div><div><div>SYMPOSIUM IBC-SY06-1.5</div><div>Clinical Beta-Cell Replacement Therapy in the Near Future (INCLUDES LIVESTREAM)</div><div>Room: W414</div></div></div>		<div><div><div>SYMPOSIUM IP-SY08-1.5</div><div>Obesity in United States Hispanic/Latino Populations—Challenges and Strategies</div><div>Room: W304 E-H</div></div></div>	<div><div><div>SYMPOSIUM IB-SY05-1.5</div><div>The Good, The Bad, and The Ugly of Lipids in the Beta-Cell Microenvironment</div><div>Room: W206</div></div></div>	
ADA Chief Executive Officer Remarks; President, Health Care & Education Address; and Outstanding Educator in Diabetes Award Lecture (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)				

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics
11:30 a.m.–12:30 p.m.	PROFESSIONAL INTEREST GROUP AC-IG02-1 Discussion on Foot Care—Lower Extremity Complications Room: W206	PROFESSIONAL INTEREST GROUP BM-IG02-1 Discussion on Exercise Physiology—Syncing Up—Exploring the Interplay of Circadian Rhythms and Exercise Room: W304 A-D	PROFESSIONAL INTEREST GROUP CT-IG03-1 Discussion on Diabetes in Youth—Perspectives on Universal Antibody Screening Room: W207	EPOSTER THEATER ePoster02 (*) Diabetes and CVD—Heartbreak in Motion Room: Exhibit Hall (West A1-A3) ePoster Theater B
	EPOSTER THEATER ePoster01 (*) Diabetic Kidney Disease—From Genetic Pathways to Social Determinants Room: Exhibit Hall (West A1-A3) ePoster Theater A	PROFESSIONAL INTEREST GROUP BM-IG04-1 Discussion on Nutritional Sciences and Metabolism—The Science of Ultraprocessed Foods and Impacts on Metabolic Diseases Room: W304 E-H	PROFESSIONAL INTEREST GROUP CT-IG05-1 Discussion on Pregnancy and Reproductive Health—Should Continuous Glucose Monitoring Be Used in Pregnancy Complicated by Gestational Diabetes? Room: W208	
		PROFESSIONAL INTEREST GROUP BM-IG05-1 Discussion on Women’s Interprofessional Network of the ADA (WIN ADA)—How to Say “No” So You Can Say “Yes”—Optimizing Time Management Room: W308		
12:30 p.m.–1:30 p.m.	General Poster Session—Poster Hall (West Hall A4-B2, Second Level) Session Break (Take this opportunity to visit the Exhibit and Poster Halls)			
			EPOSTER THEATER ePoster03 (*) Insights into the Treatment, Mechanistic Underpinnings, and Determinants of Outcomes in Pregnancies Complicated by Diabetes Room: Exhibit Hall (West A1-A3) ePoster Theater A	
			EPOSTER THEATER ePoster04 (*) Pediatric Research Update—Type 1 Diabetes, Type 2 Diabetes, Obesity Room: Exhibit Hall (West A1-A3) ePoster Theater B	

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
			PROFESSIONAL INTEREST GROUP IB-IG01-1 Discussion on Islet Biology, Development, and Function—Right on Target—Strategies to Selectively Regenerate and Protect Beta Cells Room: W311	PROFESSIONAL DEVELOPMENT PD-01-1 Creating Talks That Are Talked About—How to Bring Memorability to Your Presentation(s) (INCLUDES LIVESTREAM) Room:W307
General Poster Session—Poster Hall (West Hall A4-B2, Second Level) Session Break (Take this opportunity to visit the Exhibit and Poster Halls)				

(*) Continuing Education Credit Is Not Awarded for this Session.

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics	Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
1:30 p.m.–3:00 p.m.	<div><div>ORAL PRESENTATIONS</div><div>AC-OR02-1.5</div><div>Cell and Molecular Approaches to Diabetes-Related Foot Complications (With Roger Pecoraro Award Lecture) (INCLUDES LIVESTREAM)</div><div>Room: W307</div></div> <div><div>ORAL PRESENTATIONS</div><div>AC-OR03-1.5</div><div>Hypoglycemia in the Real World—Who’s Really at Risk?</div><div>Room: W208</div></div> <div><div>ORAL PRESENTATIONS</div><div>AC-OR08-1.5</div><div>Clinical Biomarkers of ASCVD Risk Progression in Diabetes Mellitus and Metabolic Disease</div><div>Room: W308</div></div> <div><div>EPOSTER THEATER</div><div>ePoster06</div><div>(*) From Macrovascular to Microvascular</div><div>Room: Exhibit Hall (West A1-A3) ePoster Theater B</div></div>	<div><div>ORAL PRESENTATIONS</div><div>BM-OR01-1.5</div><div>Social Drivers of Health and Advancement towards Social Justice</div><div>Room: W314</div></div>	<div><div>DEBATE</div><div>CT-DB15-1.5</div><div>Innovation or Access in Diabetes Technology—What Should Be Our Global Priority?</div><div>Room: W415C (Valencia Ballroom)</div></div> <div><div>ORAL PRESENTATIONS</div><div>CT-OR02-1.5</div><div>Using Teams and Technology to Improve Outcomes</div><div>Room: W315</div></div> <div><div>ORAL PRESENTATIONS</div><div>CT-OR05-1.5</div><div>Novel Insights into Pathophysiology, Diagnosis, and Outcomes in GDM</div><div>Room: W311</div></div> <div><div>SYMPOSIUM</div><div>CT-SY30-1.5</div><div>ADA Primary Care Council—What Does a Person with Diabetes Need from Their Primary Care Team?</div><div>(INCLUDES LIVESTREAM)</div><div>Room: W320 (Chapin Theater)</div></div> <div><div>EPOSTER THEATER</div><div>ePoster05</div><div>(*) Learning Across Diabetes</div><div>Room: Exhibit Hall (West A1-A3) ePoster Theater A</div></div>	<div><div>ORAL PRESENTATIONS</div><div>EG-OR02-1.5</div><div>The Safety Net Unraveled—Social and Geographical Factors in Diabetes Disparities</div><div>Room: W206</div></div> <div><div>ORAL PRESENTATIONS</div><div>EG-OR04-1.5</div><div>Type 2 Diabetes and Related Trait GWAS Variant Effects through Omics Profiles (With ADA Presidents’ Select Abstract Presentation)</div><div>Room: W207</div></div>	<div><div>ORAL PRESENTATIONS</div><div>IBC-OR05-1.5</div><div>The “Barrier Reef”—Overcoming Hurdles to Beta-Cell Replacement Therapies</div><div>Room: W304 A-D</div></div>	<div><div>ORAL PRESENTATIONS</div><div>IA-OR02-1.5</div><div>Novel Regulators of Insulin Action and Insulin Sensitivity (INCLUDES LIVESTREAM)</div><div>Room: W414</div></div>		<div><div>SYMPOSIUM</div><div>IB-SY03-1.5</div><div>Channeling Mechanisms Underlying Islet Function and Dysfunction (INCLUDES LIVESTREAM)</div><div>Room: W415B (Valencia Ballroom)</div></div>	

(*) Continuing Education Credit Is Not Awarded for this Session.

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics	Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development	
3:15 p.m.– 4:15 p.m.	PANEL AC-PN03-1 From the Cutting Room Floor—Semi-live Surgery for Healing Diabetic Foot Ulcers for the Referring Practitioner Room: W206	SYMPOSIUM BM-SY06-1 Optimizing Outcomes of GLP-1+/GIP Receptor Agonists—How to Help Patients Succeed Room: W315 SYMPOSIUM BM-SY18-1 International Consensus Statement and Movement to End Diabetes Stigma Room: W311	DEBATE CT-DB18-1 Diabetes Prevention Program (DPP) vs. GLP-1RA—Which Tool Is Best to Battle the Obesity and Diabetes Epidemics? Room: W304 E-H			DEBATE IA-DB01-1 Boosting Energy Expenditure in Obesity—Debating the Potential of Thermogenic Adipose Tissue and Skeletal Muscle Bioenergetics as Antiobesity Targets in Humans Room: W304 A-D	SYMPOSIUM IP-SY06-1 Intermittent Fasting in Various Forms of Diabetes Care (INCLUDES LIVESTREAM) Room: W414			
	PANEL AC-PN08-1 Beyond Statins—Treating and Evaluating Residual Atherosclerotic Cardiovascular Disease Risk Room: W207		PANEL CT-PN11-1 GLP-1 +/- GIP Receptor Agonists in the Perioperative Setting—To Stop or Not to Stop? Room: W415C (Valencia Ballroom)							PANEL CT-PN19-1 Health Care Policy and Diabetes—How to Improve Population Health from Multiple Perspectives (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)
	SYMPOSIUM AC-SY02-1 Diabetic Retinopathy Care and Screening—Is Artificial Intelligence Changing the Future? Room: W208		SYMPOSIUM CT-SY13-1 How I Feel Matters, Too—The Psychosocial Aspects of Automated Insulin Delivery (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)							SYMPOSIUM CT-SY34-1 Hyperglycemic Crises in Diabetes Room: W314
	SYMPOSIUM AC-SY14-1 The Many Faces of Kidney Disease in Diabetes—Not All Are Diabetic Nephropathy (INCLUDES LIVESTREAM) Room: W307									
	SYMPOSIUM AC-SY16-1 Updates in Autonomic Neuropathy Room: W308									
4:30 p.m.– 6:00 p.m.		SYMPOSIUM BM-SY01-1.5 The Evolution of Diabetes Behavioral Care (INCLUDES LIVESTREAM) Room: W307	MAIN EVENT CT-ME40-1.5 Innovation Challenge (INCLUDES LIVESTREAM) Note: Continuing Education Credit Is Not Awarded for this Session Room: West Hall B3-4 (General Session) ORAL PRESENTATIONS CT-OR09-1.5 Leveling Up Incretin-Based Therapy in Type 2 Diabetes Room: W415C (Valencia Ballroom) SYMPOSIUM CT-SY09-1.5 Diabetes and the Lung—Cause and Consequence (INCLUDES LIVESTREAM) Room: W414 SYMPOSIUM CT-SY29-1.5 Heterogeneity of Diabetes—Pathophysiology to Global Considerations (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)			PANEL IA-PN02-1.5 Technical Challenges and Solutions in Metabolomics (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	ORAL PRESENTATIONS IP-OR08-1.5 Towards Targeted Weight-Loss Therapy—New Considerations for GLP-1RA or Surgery Room: W304 A-D			

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics
8:00 a.m.–9:30 a.m.	<div><div><div>PANEL</div><div>AC-PN10-1.5</div><div>A Multidisciplinary Approach—Challenging Cases from the Cardiometabolic Clinic (INCLUDES LIVESTREAM)</div><div>Room: W307</div></div><div><div><div>SYMPOSIUM</div><div>AC-SY13-1.5</div><div>The Changing Climate of Diabetic Kidney Disease—Environmental Triggers and Vulnerabilities</div><div>Room: W206</div></div></div></div>	<div><div><div>SYMPOSIUM</div><div>BM-SY02-1.5</div><div>Loneliness Is a Real Heartbreaker (INCLUDES LIVESTREAM)</div><div>Room: W414</div></div></div>	<div><div><div>PANEL</div><div>CT-PN10-1.5</div><div>Noninsulin Treatment for Type 1 Diabetes</div><div>Room: W311</div></div><div><div><div>SYMPOSIUM</div><div>CT-SY01-1.5</div><div>Metformin Reexamined—Pleiotropic Effects in Mother and Offspring in Humans and Animal Models</div><div>Room: W315</div></div></div><div><div><div>SYMPOSIUM</div><div>CT-SY24-1.5</div><div>Joint ADA/ISPAD Symposium—Pediatric Diabetes Insights and Innovations</div><div>Room: W415C (Valencia Ballroom)</div></div></div><div><div><div>SYMPOSIUM</div><div>CT-SY36-1.5</div><div>The State of Health Equity and Disability—Supporting Diabetes Technology Usage in People Who Are Deaf/Hard of Hearing or Blind/Low Vision</div><div>Room: W314</div></div></div><div><div><div>SYMPOSIUM</div><div>CT-SY44-1.5</div><div>Diabetes and Organ Transplantation—Pathophysiology, Inpatient and Outpatient Management</div><div>Room: W208</div></div></div></div>	<div><div><div>PANEL</div><div>EG-PN04-1.5</div><div>When a Box Isn’t a Box—Research Frameworks for Understanding and Addressing Disparities in Type 2 Diabetes</div><div>Room: W207</div></div></div>
9:45 a.m.–11:15 a.m.	<div>President, Medicine & Science Address and National Scientific & Health Care Achievement Awards Presentation (INCLUDES LIVESTREAM)</div> <div>West Hall B3-4 (General Session)</div>			

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
<div><div><div>SYMPOSIUM</div><div>IBC-SY04-1.5</div><div>Translating Type 1 Diabetes Risk Alleles to Therapy</div><div>Room: W304 A-D</div></div></div>	<div><div><div>SYMPOSIUM</div><div>IA-SY04-1.5</div><div>Metabolite Transport and Molecular Metabolism</div><div>Room: W304 E-H</div></div></div>	<div><div><div>SYMPOSIUM</div><div>IP-SY11-1.5</div><div>Severe GLP-1RA Side Effects in Obesity Treatment—Fact or Fiction? (INCLUDES LIVESTREAM)</div><div>Room: W415B (Valencia Ballroom)</div></div><div><div><div>SYMPOSIUM</div><div>IP-SY12-1.5</div><div>ADA Diabetes Journal Symposium—It Is All in Your Head—Central Nervous System Control of Systemic Metabolism</div><div>Room: W308</div></div></div></div>		
<div>President, Medicine & Science Address and National Scientific & Health Care Achievement Awards Presentation (INCLUDES LIVESTREAM)</div> <div>West Hall B3-4 (General Session)</div>				

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics
11:30 a.m.–12:30 p.m.	PROFESSIONAL INTEREST GROUP AC-IG01-1 Discussion on Diabetes and Cardiovascular Disease—Obesity and Diabetes—Innovative Research to Inform Clinical Practice Room: W206	PROFESSIONAL INTEREST GROUP BM-IG01-1 Discussion on Behavioral Medicine and Psychology—including the Excluded in Behavioral Diabetes Research Room: W208	PROFESSIONAL INTEREST GROUP CT-IG02-1 Discussion on Diabetes in Primary Care—Tackling Diabetes in Primary Care—Training and Workforce Development Room: W304 A-D	
	PROFESSIONAL INTEREST GROUP AC-IG03-1 Discussion on Eye Health—Novel Diabetes Therapies in Diabetic Retinopathy—A Basic Science and Preclinical Perspective Room: W207	PROFESSIONAL INTEREST GROUP BM-IG03-1 Discussion on Diabetes Self-Management Education and Support (DSMES)—It’s Time to Change the Way We Talk about DSMES! Room: W308	PROFESSIONAL INTEREST GROUP CT-IG06-1 Discussion on Clinical Centers and Programs—Challenges in Management of Diabetes in Older Adults and in Primary Care Room: W304 E-H WORKSHOP CT-WS37-1 Improving Care for Deaf People with Diabetes Who Use ASL Interpreters—A Hands-On Workshop Room: W311 EPOSTER THEATER ePoster07 (*) Improving Efficacy and Safety of Incretin-Based Therapies Room: Exhibit Hall (West A1-A3) ePoster Theater A	
12:30 p.m.–1:30 p.m.	General Poster Session —Poster Hall (West Hall A4-B2, Second Level) Session Break (Take this opportunity to visit the Exhibit and Poster Halls)			
	EPOSTER THEATER ePoster10 (*) New Progress in Clinical Screening and Interventions for ASCVD Risk Mitigation in Metabolic Disease Room: Exhibit Hall (West A1-A3) ePoster Theater B	EPOSTER THEATER ePoster09 (*) Exploring Eating Behaviors and Weight Loss in Youth and Adults with Type 1 and Type 2 Diabetes Room: Exhibit Hall (West A1-A3) ePoster Theater A		

(*) Continuing Education Credit Is Not Awarded for this Session.

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
			EPOSTER THEATER ePoster08 (*) Islet Biology Room: Exhibit Hall (West A1-A3) ePoster Theater B	PROFESSIONAL DEVELOPMENT PD-02-1 Art of Writing a Winning Grant (INCLUDES LIVESTREAM) Room: W307
General Poster Session —Poster Hall (West Hall A4-B2, Second Level) Session Break (Take this opportunity to visit the Exhibit and Poster Halls)				

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics	Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
1:30 p.m.–3:00 p.m.	<div>ORAL PRESENTATIONS AC-OR04-1.5 Continuous Glucose Monitoring—Can It Reduce Hypoglycemia Burden? Room: W307</div> <div>ORAL PRESENTATIONS AC-OR09-1.5 Emerging Small Molecule Biomarkers of ASCVD Risk in Metabolic Disease Room: W208</div>	<div>DEBATE BM-DB07-1.5 The Role of Artificial Intelligence in Transforming Nutrition and Diabetes Care—Ready for Prime Time or Not Quite? Room: W311</div> <div>ORAL PRESENTATIONS BM-OR02-1.5 Multifaceted Insights into Behavioral and Psychosocial Care for Youth and Families Room: W314</div>	<div>ORAL PRESENTATIONS CT-OR06-1.5 Novel Approaches to Treatment and Characterization of Diabetes in Pregnancy (With Norbert Freinkel Award Lecture) (With ADA Presidents’ Select Abstract Presentation) (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)</div> <div>ORAL PRESENTATIONS CT-OR08-1.5 Weighing Opportunities of Incretin-Based Therapy in Obesity (With ADA Presidents’ Select Abstract Presentation) Room: W415C (Valencia Ballroom)</div> <div>ORAL PRESENTATIONS CT-OR14-1.5 New Technology—AID Focus Room: W315</div> <div>SYMPOSIUM CT-SY32-1.5 Global Burden of Cardiovascular Disease in People with Diabetes (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)</div> <div>EPOSTER THEATER ePoster12 (*) Growing Older with Diabetes Room: Exhibit Hall (West A1-A3) ePoster Theater B</div>	<div>ORAL PRESENTATIONS EG-OR05-1.5 Common and Rare Genetic Variant Associations and MolecularQTL Scans in Type 2 Diabetes Tissues Room: W207</div> <div>EPOSTER THEATER ePoster12 (*) Growing Older with Diabetes Room: Exhibit Hall (West A1-A3) ePoster Theater B</div>		<div>ORAL PRESENTATIONS IA-OR03-1.5 Metabolic Control of Insulin Action and Secretion (INCLUDES LIVESTREAM) Room: W414</div>	<div>ORAL PRESENTATIONS IP-OR02-1.5 Research Advances in Metabolic Liver Disease Room: W308</div> <div>ORAL PRESENTATIONS IP-OR04-1.5 New Insights into Therapeutic Strategies for Obesity and Diabetes Room: W304 E-H</div> <div>ORAL PRESENTATIONS IP-OR07-1.5 Novel Modulators of Adipose Tissue Function and Adiposity Room: W304 A-D</div>	<div>ORAL PRESENTATIONS IB-OR02-1.5 Islet Signal Transduction Room: W206</div>	
3:15 p.m.–4:15 p.m.	<div>ORAL PRESENTATIONS AC-OR01-1 Lower Extremity Complications with Systemic Effects Room: W206</div> <div>ORAL PRESENTATIONS AC-OR05-1 Physiologic Responses to Hypoglycemia—New Insights Room: W207</div> <div>ORAL PRESENTATIONS AC-OR12-1 Diabetic Kidney Disease (INCLUDES LIVESTREAM) Room: W307</div> <div>ORAL PRESENTATIONS AC-OR16-1 Insights into Diabetic Retinopathy—From Molecular Characterization to Therapeutic Considerations Room: W208</div>	<div>ORAL PRESENTATIONS BM-OR09-1 Clinical Contributions in Type 1 Diabetes and Exercise Room: W314</div> <div>PANEL BM-PN10-1 Educating Clinicians in the Latest Inpatient Management Strategies from Both Sides of the Pond Room: W311</div> <div>SYMPOSIUM BM-SY16-1 The Future of Diabetes Nutrition Interventions—Innovation in Practice (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)</div>	<div>ORAL PRESENTATIONS CT-OR19-1 New Insights and Treatments in Management of Youth with Type 1 Diabetes Mellitus Room: W315</div>	<div>3:15PM-4:00PM EG-KWL-1 Kelly West Award for Outstanding Achievement in Epidemiology Lecture (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)</div>	<div>ORAL PRESENTATIONS IBC-OR06-1 Preclinical/Clinical Efforts for Beta-Cell Replacement Therapy Room: W304 A-D</div>		<div>ORAL PRESENTATIONS IP-OR03-1 Novel Pathways in Metabolic Regulation Room: W304 E-H</div> <div>ORAL PRESENTATIONS IP-OR09-1 Risk Factors Reimagined—Beyond Obesity in Metabolic Risk Room: W308</div>	<div>ORAL PRESENTATIONS IB-OR04-1 Endgame—Oral Abstracts on Beta-Cell Apoptosis (With ADA Presidents’ Select Abstract Presentation) (INCLUDES LIVESTREAM) Room: W414</div>	

(*) Continuing Education Credit Is Not Awarded for this Session.

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics	Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
4:30 p.m.–6:00 p.m.	<p>PANEL AC-PN04-1.5 Diabetic Foot Disparities—Treatment With and Without a Multidisciplinary Team Room: W208</p>	<p>SYMPOSIUM BM-SY03-1.5 Survey Says—Psychosocial Screening Tools and Their Psychometric Properties for Youth and Adults with Diabetes Room: W314</p> <p>SYMPOSIUM BM-SY12-1.5 Mind the Gap—Health Benefits of Exercise in Women With or at Risk for Diabetes (INCLUDES LIVESTREAM) Room: W307</p>	<p>DEBATE CT-DB05-1.5 Keeping Up with Hollywood—Who Should Be Prioritized for New Antiobesity Medications? Room: W308</p> <p>PANEL CT-PN17-1.5 Prioritizing Diversity in Clinical Trials Room: W315</p> <p>SYMPOSIUM CT-SY02-1.5 Controversies in Continuous Glucose Monitoring (CGM) Use during Pregnancy—Time in Range and Beyond Time in Range Room: W415C (Valencia Ballroom)</p> <p>SYMPOSIUM CT-SY31-1.5 Multiple Faces of Therapeutic Inertia in Diabetes Room: W311</p> <p>SYMPOSIUM CT-SY38-1.5 Joint ADA/PAHO Symposium—Latin America and the Caribbean Regional Approach to Prevent and Control Diabetes Room: W304 E-H</p> <p>SYMPOSIUM CT-SY42-1.5 THE STEP-HFpEF and STEP-HFpEF-DM Trials—Targeting Obesity to Treat Heart Failure (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)</p>	<p>SYMPOSIUM EG-SY03-1.5 Big P, Little P—Diabetes Policies for Public Health Room: W207</p>	<p>SYMPOSIUM IBC-SY07-1.5 Long-Term Goals and Challenges for Beta-Cell Replacement Therapy (INCLUDES LIVESTREAM) Room: W414</p>	<p>SYMPOSIUM IA-SY05-1.5 Lipid Regulation of Mitochondrial Metabolism Room: W304 A-D</p>	<p>SYMPOSIUM IP-SY02-1.5 Weight-Reducing Mechanisms of GLP-1–Based Therapies—New Insights from Animal Studies (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)</p>	<p>ORAL PRESENTATIONS IB-OR03-1.5 Beta-Cell Blueprints—Oral Abstracts on Islet Development and Postnatal Growth Room: W206</p>	

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics	Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
8:00 a.m.–9:30 a.m.	SYMPOSIUM AC-SY15-1.5 A Means to an Endpoint—Establishing Meaningful Outcomes in Clinical Neuropathy Trials Room: W206	SYMPOSIUM BM-SY08-1.5 Innovative Programs That Take on the Challenge of Hard-to-Reach Populations (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	ORAL PRESENTATIONS CT-OR15-1.5 New Technology—Continuous Glucose Monitoring Room: W314 SYMPOSIUM CT-SY03-1.5 Myth Busters on “Category X” Drugs in Pregnancy—Evidence for Stopping Commonly Used Medications during Pregnancy, Preconception, and Lactation (INCLUDES LIVESTREAM) Room: W414 SYMPOSIUM CT-SY21-1.5 Cost and Quality—Improving Diabetes Care and the Cost of Ongoing Inequities Room: W311 SYMPOSIUM CT-SY22-1.5 Towards Innovative and Equitable Care in Youth-Onset Type 2 Diabetes Room: W315 SYMPOSIUM CT-SY39-1.5 ADA Symposium—Major Advances and Discoveries in Diabetes—The Year in Review (INCLUDES LIVESTREAM) Room: W415C (Valencia Ballroom) SYMPOSIUM CT-SY50-1.5 Consensus Monitoring Guidance in Early-Stage Type 1 Diabetes (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)	SYMPOSIUM EG-SY07-1.5 Omics to Understand Genome-Wide Association Study—What’s the Mechanism? Room: W207	SYMPOSIUM IBC-SY01-1.5 Cross Talk between Beta Cells and Immune Cells Room: W304 A-D	SYMPOSIUM IA-SY06-1.5 Molecular Integration of Amino Acid and Fat Metabolism in Health and Metabolic Disease Room: W304 E-H	SYMPOSIUM IP-SY03-1.5 Metabolism and Aging-Related Diseases Room: W308 SYMPOSIUM IP-SY04-1.5 Beyond the Scale—Exploring Causes and Consequences of Weight Fluctuation (INCLUDES LIVESTREAM) Room: W307		
9:45 a.m.–11:15 a.m.	Outstanding Scientific Achievement Award Lecture and Banting Medal for Scientific Achievement Award Lecture (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)				Outstanding Scientific Achievement Award Lecture and Banting Medal for Scientific Achievement Award Lecture (INCLUDES LIVESTREAM) West Hall B3-4 (General Session)				
11:30 a.m.–12:30 p.m.		EPOSTER THEATER ePoster13 (*) Tailoring Diabetes Self-Management Education to Improve Success Room: Exhibit Hall (West A1-A3) ePoster Theater A	PROFESSIONAL INTEREST GROUP CT-IG01-1 Discussion on Diabetes Technology—Enhancing Clinic Efficiency through the Integration of Diabetes Technologies Room: W304 A-D PROFESSIONAL INTEREST GROUP CT-IG04-1 Discussion on Health Care Delivery and Quality Improvement Room: W304 E-H	PROFESSIONAL INTEREST GROUP EG-IG01-1 Discussion on Public Health and Epidemiology—Kids Are Not Little Adults—Challenges and Opportunities in the Use of Pharmacotherapy for Youth With and at Risk for Type 2 Diabetes Room: W207	PROFESSIONAL INTEREST GROUP IBC-IG01-1 Discussion on Immunology/Beta-Cell Replacement—Beta-Cell Stressors, Autoantigen Targets, and How This Provokes Immune Attack Room: W206		EPOSTER THEATER ePoster14 (*) Research Advances in Metabolic Regulation Room: Exhibit Hall (West A1-A3) ePoster Theater B		PROFESSIONAL DEVELOPMENT PD-03-1 Negotiations (INCLUDES LIVESTREAM) Room: W307

(*) Continuing Education Credit Is Not Awarded for this Session.

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/Therapeutics	Epidemiology/Genetics
12:30 p.m.–1:30 p.m.	General Poster Session—Poster Hall (West Hall A4-B2, Second Level)			
	Session Break (Take this opportunity to visit the Exhibit and Poster Halls)			
			EPOSTER THEATER ePoster15 (*) Creative Strategies for Care Improvement Room: Exhibit Hall (West A1-A3) ePoster Theater A	
1:30 p.m.–3:00 p.m.	SYMPOSIUM AC-SY06-1.5 Demystifying Impaired Awareness of Hypoglycemia—Diagnosis, Experience, and Treatment in the Real World Room: W207	SYMPOSIUM BM-SY09-1.5 How Diabetes Technology Is Changing Diabetes Care in the Real World Room: W311	SYMPOSIUM CT-SY07-1.5 Impact of Precision Medicine on Diabetes Room: W314	
		SYMPOSIUM BM-SY17-1.5 Nutrition and Diabetes Self-Management Education and Support (DSMES) Room: W415C (Valencia Ballroom)	SYMPOSIUM CT-SY20-1.5 Just Do It—Incorporating What We Know into What We Do Room: W315	
			SYMPOSIUM CT-SY26-1.5 ADA Diabetes Care/ Diabetes/Diabetologia Symposium—The Heterogeneity of Type 1 Diabetes—Pathogenesis, Treatment, and Prevention (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater)	
			SYMPOSIUM CT-SY28-1.5 Lancet Journal Symposium—Time for a Paradigm Shift? Should We Treat Early Gestational Diabetes Mellitus? Room: W304 E-H	
			SYMPOSIUM CT-SY41-1.5 The First Dedicated Kidney Outcome Trial with a GLP-1 Receptor Agonist—Once-Weekly Semaglutide and the FLOW Trial Results (INCLUDES LIVESTREAM) Room: W415B (Valencia Ballroom)	

(*) Continuing Education Credit Is Not Awarded for this Session.

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
General Poster Session—Poster Hall (West Hall A4-B2, Second Level)				
Session Break (Take this opportunity to visit the Exhibit and Poster Halls)				
			EPOSTER THEATER ePoster16 (*) Hepatocytes, Adipocytes, Beta cells, Oh My! Room: Exhibit Hall (West A1-A3) ePoster Theater B	
PANEL IBC-PN03-1.5 Modulating Cytokines—Mechanisms Underlying Type 1 Diabetes Treatment (INCLUDES LIVESTREAM) Room: W414	ORAL PRESENTATIONS IA-OR04-1.5 Revving Up the Adipose to Impact Insulin Sensitivity and Glucose Homeostasis Room: W304 A-D	SYMPOSIUM IP-SY05-1.5 Mitochondria as a Therapeutic Target for Diabetes Room: W308	PANEL IB-PN04-1.5 Are We Using the Right Tools to Establish Causality in Islet Function and Dysfunction? Room: W206	
		SYMPOSIUM IP-SY10-1.5 Food Noise Explained—Satiety Responsiveness and Motivation Processing in the Brain (INCLUDES LIVESTREAM) Room: W307		

	Acute and Chronic Complications	Behavioral Medicine, Clinical Nutrition, Education, and Exercise	Clinical Diabetes/ Therapeutics	Epidemiology/ Genetics
3:15 p.m.–4:15 p.m.	SYMPOSIUM AC-SY11-1 Cardiovascular Disease Risk Prediction in Obesity and Type 2 Diabetes—Emerging Tools for the Clinician Room: W206	ASK THE EXPERT BM-AE04-1 The Highs and Lows of Cannabis Use in Diabetes—Behavioral and Psychosocial Considerations Room: W314 PANEL BM-PN11-1 Are We Close to Closing the Loop? Automated Insulin Delivery during Exercise Room: W415C (Valencia Ballroom)	DEBATE CT-DB04-1 Early Abnormal Glucose Metabolism in Pregnancy—To Treat or Not to Treat Room: W311 SYMPOSIUM CT-SY25-1 Improving Culture of Quality in Pediatric Centers—Lessons from the Type 1 Diabetes Exchange Quality Improvement Collaborative Room: W315 SYMPOSIUM CT-SY46-1 Results from a Randomized Trial of Intensive Glucose Management Using Continuous Glucose Monitoring (CGM) Versus Usual Care in Hospitalized Adults with Type 2 Diabetes—The TIGHT Study (INCLUDES LIVESTREAM) Room: W320 (Chapin Theater) SYMPOSIUM CT-SY47-1 Use of SGLT2i in Youth with Type 1 Diabetes—Results from ATTEMPT (The Adolescent Type 1 Diabetes Treatment with SGLT2i for hyperglycEMia & hyPerfilTration Trial) (INCLUDES LIVESTREAM) Room: W414 SYMPOSIUM CT-SY48-1 Prevalence of Hypercortisolism in Difficult-to-control Type 2 Diabetes Room: W415B (Valencia Ballroom)	SYMPOSIUM EG-SY06-1 Diabetes Genetic Convergence—Shared Networks of Rare and Common Variants Room: W207

Immunology/ Beta-Cell Replacement	Insulin Action/ Molecular Metabolism	Obesity/Integrated Physiology	Islet Biology/ Insulin Secretion	Professional Development
DEBATE IBC-DB02-1 Do Immune or Beta Cells Drive Transition from Stage 1 to Stage 3 Type 1 Diabetes? Room: W304 A-D SYMPOSIUM IBC-SY08-1 The Future of Diabetes Care as Cell Replacement or Regeneration Therapies (INCLUDES LIVESTREAM) Room: W307		PANEL IP-PN01-1 Leptin, 30 Years Later Room: W304 E-H PANEL IP-PN09-1 Ripple Effects after the Advent of Highly Effective Antiobesity Pharmacotherapy—Pharmacoequity in the United States Room: W308		



**84TH SCIENTIFIC
SESSIONS**

ORLANDO, FL | HYBRID | JUNE 21-24, 2024

PROGRAM INFORMATION

84th Scientific Sessions

June 21-24, 2024

Orange County Convention Center

Orlando, Florida

Program information is subject to change at any time. For full program details, please use the online planner/mobile app.

The mission of the American Diabetes Association is to prevent and cure diabetes and to improve the lives of all people affected by diabetes.

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FRIDAY, JUNE 21, 2024

**Scientific Sessions
10:30 a.m.-11:30 a.m.**

Special Lectures and Addresses

Session Number: WP-01-1

Welcome to the 84th ADA Scientific Sessions—Keynote Address by Robert M. Califf, MD and Panel Discussion *(Includes Livestream)*

Room: West Hall B3-4 (General Session)

Chair: Robert A. Gabbay, MD, PhD

10:30 a.m.-10:35 a.m. *Introduction*

Charles Henderson

10:36 a.m.-10:40 a.m. *Welcome to the 84th ADA Scientific Sessions!*

Robert A. Gabbay, MD, PhD

10:40 a.m.-11:10 a.m. *Keynote Address—TBD*

Robert M. Califf, MD

11:10 a.m.-11:30 a.m. *Panel Discussion*

Alice Y.Y. Cheng, MD, FRCPC

Robert M. Califf, MD

Christopher S. Holliday, PhD, MPH, MA, FACHE

Griffin Rodgers, MD, MACP

11:30 a.m.-12:30 p.m.

Pathway Symposium

Session Number: PTH-01-1

"Pathway to Stop Diabetes" *(Includes Livestream)*

Room: West Hall B3-4 (General Session)

Chair: Robert A. Gabbay, MD, PhD

11:40 a.m.-11:48 a.m. *Introduction*

Robert A. Gabbay, MD, PhD

11:48 a.m.-11:56 a.m. *"Pathway to Stop Diabetes"—TBD*

Kathleen A. Page, MD

11:56 a.m.-12:02 p.m. *"Pathway to Stop Diabetes"—TBD*

Paul Cohen, MD, PhD

12:02 p.m.-12:11 p.m. *"Pathway to Stop Diabetes"—TBD*

Debora Sobreira, PhD

12:11 p.m.-12:15 p.m. *Closing Remarks*

Marlon Pragnell, PhD

Debate

Session Number: EG-DB01-1

Chair: Alan Kinlaw, PhD

Jessica Cerdeña, MD, PhD

Jessica Cerdeña, MD, PhD

Debate

Session Number: IB-DB01-1

Chair: Mark A. Atkinson, PhD

Carmella Evans-Molina, MD, PhD

Carmella Evans-Molina, MD, PhD

1:25 p.m.-1:45 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR06-1

Multiorgan Cross Talk in Lipid Metabolism

Room: W206

Chair: Rebecca Haeusler, PhD

12:45 p.m.-1:00 p.m.

1-OR The Improvement Effects of Glucokinase Loss-of-Function Mutation on Lipid Metabolism

Presenting Author: Ziyang Xie, PhD

2-OR WITHDRAWN

1:00 p.m.-1:15 p.m.

3-OR Lipoprotein(a) Levels and Epicardial Adipose Tissue in Diabetes—Unraveling Novel Connections

Presenting Author: Emmanuel Cosson, Professor

1:15 p.m.-1:30 p.m.

4-OR Fat Contents in Pancreatic Body and Liver Are Synergistic Risk Factors for Impaired Glucose Regulation in PCOS

Presenting Author: Tao Tao, Doctorate

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR11-1

Metabolic Pathways to Protection—Innovative Approaches in Diabetes-Induced Kidney Disease

Room: W207

Chair: Kalie L. Tommerdahl, MD

12:45 p.m.-1:00 p.m.

5-OR Renal Hypermetabolism in Youth-Onset Type 2 Diabetes (T2D)—A C-11 Acetate PET Scan Analysis

Presenting Author: Melissa Leroux, BS

1:00 p.m.-1:15 p.m.

6-OR Renal Cell Type—Associated Therapeutic Effects of Semaglutide in a Mouse Model of Hypertension-Accelerated Diabetic Kidney Disease

Presenting Author: Michael Christensen, PhD

1:15 p.m.-1:30 p.m.

7-OR Causal Associations between Glyoxalase 1 Expression and Kidney Disease in Type 1 Diabetes

Presenting Author: Krishna Adeshara, PhD

1:30 p.m.-1:45 p.m.

8-OR Longitudinal Patterns of Heterogeneity in Metabolic Decompensation among Diabetes Prevention Program Outcomes Study (DPPOS) Participants over 20 Years

Presenting Author: Emily Kobayashi, BS

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR13-1

Innovative Approaches in Diagnosing and Managing Diabetic Neuropathy (With ADA Presidents' Select Abstract Presentation) *(Includes Livestream)*

Room: W307

Chair: Kara R. Mizokami-Stout, MD

12:45 p.m.-1:00 p.m.

9-OR ADA Presidents' Select Abstract: Targeting Inflammation with Salsalate in Type 1 Diabetes Neuropathy (TINSAL-T1DN Trial)

Presenting Author: Lynn Ang, MD

1:00 p.m.-1:15 p.m.

10-OR Diffusion Tensor Imaging and T2 Mapping of the Tibial Nerve Can Detect Nerve Damage in Type 2 Diabetes

Presenting Author: Hyeong-Kyu Park, MD

1:15 p.m.-1:30 p.m.

11-OR Combined DPNCheck and SUDOSCAN as a Screening Tool for DPN—The Sheffield Prospective Study

Presenting Author: Mohummad Shaan Goonoo, MBBS, MRCPE

12-OR WITHDRAWN

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR15-1

Innovations in Diabetic Eye Care—Advancements, Therapeutic Strategies, and Disease Associations

Room: W208

Chair: Renu A. Kowluru, MS, PhD

12:45 p.m.-1:00 p.m.

- 13-OR Relationship between Visit-to-Visit Variability of HbA1c and Development/Progression of Diabetic Retinopathy**

Presenting Author: Masahiro Yuki, MD

1:00 p.m.-1:15 p.m.

- 14-OR Autonomous Artificial Intelligence Diabetic Eye Exams Mitigates Disparities in Screening Completion for Youth**

Presenting Author: Alvin Liu, MD

1:15 p.m.-1:30 p.m.

- 15-OR Diabetic Retinopathy (DR) Is Associated with Markers of Alzheimer's Disease (AD) in Type 1 Diabetes (T1D)**

Presenting Author: Meghan E. Pauley, DO

1:30 p.m.-1:45 p.m.

- 16-OR Preadministration of SGLT2 Inhibitor Reduces Frequency of Anti-VEGF Agent Administration in Patients with Mild Diabetic Macular Edema—A Multicenter Randomized Controlled Open-Label Trial**

Presenting Author: Ryoichi Ishibashi, MD, PhD

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR04-1

**Exploring the Impact of Food/Food Additives on Insulin Sensitivity and Postprandial Glucose
(With ADA Presidents' Select Abstract Presentation)**

Room: W315

Chair: Lorena Drago, MS, RDN, CDN, CDCES

12:45 p.m.-1:00 p.m.

**17-OR ADA Presidents' Select Abstract: Oral Bisphenol A Administration Decreased
Peripheral Insulin Sensitivity in Healthy Adults**

Presenting Author: Todd Hagobian, PhD

1:00 p.m.-1:15 p.m.

**18-OR The Effect of a Dietary Intervention on Insulin Sensitivity in Type 1 Diabetes
and the Role of Dietary Advanced Glycation End-Products—A 12-Week
Randomized Clinical Trial**

Presenting Author: Hana Kahleova, MD, PhD, MBA

1:15 p.m.-1:30 p.m.

**19-OR Sucralose Consumption Decreases Insulin Sensitivity and Modifies the Gut
Microbiota in Healthy Individuals**

Presenting Author: Paloma Almeda-Valdes, MD, PhD

1:30 p.m.-1:45 p.m.

**20-OR Digital Twin (DT) Technology in Type 2 Diabetes Remission and Glycemic
Improvement—Eighteen Months Results from a Randomized Controlled Trial**

Presenting Author: Paramesh Shamanna, MD

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR06-1

Tools for Health Care Professionals That Assist in Personalizing Care

Room: W314

Chair: Curtis L. Triplett, PharmD, CDCES

12:45 p.m.-1:00 p.m.

- 21-OR Use of Electronic Best Practice Advisories (BPA) to Increase Referral to Diabetes Self-Management Education and Support (DSMES) Services**
Presenting Author: Laura A. Young, MD, PhD

1:00 p.m.-1:15 p.m.

- 22-OR Burden of Diabetes Survey—Perspectives from People Living with Diabetes in the United States**
Presenting Author: Kirsten Yehl, MS, MLIS

1:15 p.m.-1:30 p.m.

- 23-OR Streamlining Diabetes Device Integration into the Electronic Health Record**
Presenting Author: Roma Gianchandani, MD

1:30 p.m.-1:45 p.m.

- 24-OR Inaccurate and Unaware—Perceived and Objective Diabetes Knowledge among Adults with Type 2 Diabetes**
Presenting Author: Colter K. Clayton, BS

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR08-1

Back to the Basics (Sciences) of Exercise and Diabetes

Room: W304 E-H

Chair: John R. Ussher, PhD

12:45 p.m.-1:00 p.m.

25-OR Two Weeks of Exercise Alters Neuronal Extracellular Vesicle Insulin Signaling in Adults with Prediabetes

Presenting Author: Steven K. Malin, PhD

1:00 p.m.-1:15 p.m.

26-OR METTL3 Is Essential for Exercise-Induced Cardiac Benefits in Diabetic Cardiomyopathy

Presenting Author: Chunyan Wang, PhD

1:15 p.m.-1:30 p.m.

27-OR Effect of Acute Exercise and Exercise Training on the Ability of Insulin to Clear Branched-Chain Amino Acids from Plasma in Obesity and Type 2 Diabetes

Presenting Author: Pauline M. Møller, MS

1:30 p.m.-1:45 p.m.

28-OR Posttranslational Modifications in Skeletal Muscle Direct Divergent Metabolic Responses to Different Exercise Training Modes

Presenting Author: Mark W. Pataky, PhD

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR03-1

Practicable Methods to Improve Metabolic Parameters

Room: W311

Chair: Michael J. Haller, MD

12:45 p.m.-1:00 p.m.

- 29-OR Analysis of Fib-4 Index Changes in Adults with Type 2 Diabetes in an Effective Comprehensive Diabetes Care Program**
Presenting Author: Rubén Silva-Tinoco, MD

1:00 p.m.-1:15 p.m.

- 30-OR Diabetes Rescue, Engagement, and Management (D-REM)—Results of a Pragmatic Clinical Trial of a Community Paramedicine Program to Improve Diabetes Care**
Presenting Author: Allison Ducharme-Smith, MD

1:15 p.m.-1:30 p.m.

- 31-OR ROCKET Type 1 Diabetes—Launching Diabetes Self-Management Habits in Youth with New-Onset Type 1 Diabetes**
Presenting Author: Guido Alarcon, MD

1:30 p.m.-1:45 p.m.

- 32-OR First Impact on A1C of Medically Underserved Patients with Type 2 Diabetes Using a Hybrid Chronic Care Model**
Presenting Author: Joyce Y. Lee, PharmD, APh, FCCP, BCPS, BCACP, CDCES

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR11-1

Diabetes Potpourri

Room: W415C (Valencia Ballroom)

Chair: Tamara Spaic, MD

12:45 p.m.-1:00 p.m.

- 33-OR The Risk of Heart Failure Hospitalization after Initiation of SGLT2i, GLP-1RA, DPP-4i, or SUs in Patients with Type 2 Diabetes and Low-to-Moderate CV Risk**
Presenting Author: Helen Tesfaye, PharmD, MSc

1:00 p.m.-1:15 p.m.

- 34-OR The Effect of Combined Activin A and Myostatin Blockade on Body Composition—A Phase 1 Trial**
Presenting Author: Dinko Gonzalez Trotter, PhD

1:15 p.m.-1:30 p.m.

- 35-OR Lantidra, First FDA Approved Cellular Therapy to Treat Type 1 Diabetes**
Presenting Author: José Oberholzer, MD, MCHM

1:30 p.m.-1:45 p.m.

- 36-OR Modulation of Cardiorenal Benefits for GLP-1RAs Treatment by GLP1R Genetic Variants**
Presenting Author: Qiaochu Xue, PhD, MPH

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR16-1

New Technology—The Inpatient Setting (*Includes Livestream*)

Room: W414

Chair: Jayachidambaram Ambalavanan, MD

12:45 p.m.-1:00 p.m.

- 37-OR Effectiveness of Continuous Glucose Monitoring on Short-Term In-Hospital Mortality among Frail Critically Ill Patients with COVID-19—An Exploratory, Prospective, Randomized, Open-Label, Parallel, Single-Center, Randomized Clinical Trial**

Presenting Author: Yun Shen, Doctor

1:00 p.m.-1:15 p.m.

- 38-OR Implementation of an EHR-Integrated Hospital-Wide CGM Protocol for Insulin Dosing**

Presenting Author: Susan M. Seav, MD

1:15 p.m.-1:30 p.m.

- 39-OR Real-Time Continuous Glucose Monitoring-Guided Glucose Management in Hospitalized Patients with Diabetes Receiving Short-Term Continuous Subcutaneous Insulin Infusion—A Randomized Clinical Trial**

Presenting Author: Yaxin Wang, MD

1:30 p.m.-1:45 p.m.

- 40-OR The Association of Continuous Glucose Monitoring Metrics with Hospital Related Clinical Outcomes**

Presenting Author: Kristen L. Flint, MD

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-OR05-1

Secreted Factors and Insulin Action

Room: W304 A-D

Chair: Phillip J. White, PhD

12:45 p.m.-1:00 p.m.

41-OR Insulin Regulates Exosomal MicroRNA Secretion from Adipocytes Completing a Novel Feedback Loop

Presenting Author: Marsel Lino, PhD

1:00 p.m.-1:15 p.m.

42-OR A Small Intestinal Bile Acid Modulates the Gut Microbiome to Improve Glucose Regulation following Bariatric Surgery

Presenting Author: Yingjia Chen, PhD

1:15 p.m.-1:30 p.m.

43-OR Endothelial Cell Regeneration by Secretome Secreted from P53-Silenced Bone Marrow-Derived BMSCs

Presenting Author: Seshagiri Rao Nandula, PhD

1:30 p.m.-1:45 p.m.

44-OR Cell Intrinsic Alterations in miRNA Expression and Secretion in Muscle in Type 2 Diabetes

Presenting Author: Allah Nawaz, PhD

FRIDAY, JUNE 21, 2024

12:45 p.m.-1:45 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR06-1

New Frontier in Immunometabolism

Room: W308

Chair: Pingwen Xu, PhD

12:45 p.m.-1:00 p.m.

45-OR The Role of CD206 Surface Antigen on M2 Macrophages in Developing Insulin Resistance in Obesity

Presenting Author: Muhammad Bilal, PhD

1:00 p.m.-1:15 p.m.

46-OR Palmitic Acid Coordinates Impaired Adipose Tissue ICOS^{high} Treg Immunosuppression and Systemic Metabolic Disturbance during Obesity

Presenting Author: Weitong Su, Bachelor's Degree

1:15 p.m.-1:30 p.m.

47-OR OPA1 Reprograms Macrophage Metabolism to Enforce Tolerance of Inflammation in Obesity

Presenting Author: Daixi Wang, PhD

1:30 p.m.-1:45 p.m.

48-OR Novel Lipidated Interleukin-22 Reduces Body Weight and Improves Glucose Homeostasis in Mice

Presenting Author: Martijn van de Bunt, MD, DPhil

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.

Ask the Expert

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-AE14-1.5

How Will Artificial Intelligence Change Diabetes Clinical Practice? *(Includes Livestream)*

Room: W320 (Chapin Theater)

Chair: Edward C. Chao, DO

2:00 p.m.-2:20 p.m. *Artificial Intelligence in Health Care and the Future of Diabetes Data Science*

Boris Kovatchev, PhD

2:20 p.m.-2:40 p.m. *Artificial Intelligence and the Future of Diabetes Devices*

Peter G. Jacobs, PhD

2:40 p.m.-3:00 p.m. *Artificial Intelligence and the Future of the Multidisciplinary Team*

Mudassir M. Rashid, PhD

3:00 p.m.-3:30 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR10-1.5

Emerging Molecular Mechanisms of ASCVD Progression in Cardiometabolic Disease (With Edwin Bierman Award Lecture) *(Includes Livestream)*

Room: W307

Chair: Helmy Siragy, MD

2:00 p.m.-2:30 p.m.
Edwin Bierman Award Lecture

Diabetes and Cardiovascular Disease—The Evolution of CV Outcomes Assessment of Antihyperglycemic Medications

Darren K. McGuire, MD, MHSc, FAHA, FACC, FESC

2:30 p.m.-2:45 p.m.

49-OR GPSM1 Regulates Atherosclerosis Progression by Controlling Macrophage Chemotaxis through PKA/KLF4/PMP22-MAPK Pathway
Presenting Author: Yuemei Zhang, PhD

2:45 p.m.-3:00 p.m.

50-OR Metabolic Dysfunction Attenuates D-dopachrome Tautomerase (DDT) Expression in the Heart—A Key Mechanism Exacerbates Myocardial Post-ischemic Injury
Presenting Author: Lisha Li, MSc, MD

3:00 p.m.-3:15 p.m.

51-OR Vascular Sorbs2 Deficiency Is an Independent Risk of Vascular Complications in Diabetes
Presenting Author: Tong Lu, MD, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR03-1.5

Exploring Dimensions of Diversity in Diabetes Distress (With Richard R. Rubin Award Lecture)
(Includes Livestream)

Room: W415B (Valencia Ballroom)

Chair: Elizabeth Beverly, PhD

2:00 p.m.-2:30 p.m.
Richard R. Rubin Award Lecture

Richard R. Rubin Award Lecture— Life Lessons and Diabetes Research

Paula M. Trief, PhD

2:30 p.m.-2:45 p.m.
52-OR Emotional Distress and Insulin Initiation in the GRADE Trial
Presenting Author: Caroline A. Presley, MD, MPH

2:45 p.m.-3:00 p.m.
**53-OR Individual Sources of Diabetes Distress—A Precision Mental Health Approach
Combining Ecological Momentary Assessment and Continuous Glucose
Monitoring**
Presenting Author: Dominic Ehrmann, PhD

3:00 p.m.-3:15 p.m.
**54-OR Feasibility of a Multidisciplinary Pilot Intervention for Parent/Caregiver
Diabetes Distress**
Presenting Author: Einas Alkhatib, MD

3:15 p.m.-3:30 p.m.
**55-OR Diabetes Distress among Persons Living with Latent Autoimmune Diabetes of
Adults in the Canadian Cohort BETTER—A Cross-Sectional Study**
Presenting Author: Maya Nehme, BSc

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR01-1.5

Screening for and Delaying Vascular Complications

Room: W315

Chair: Mohammed K. Ali, MD, MSc, MBA

- 2:00 p.m.-2:15 p.m.
- 56-OR Impact of Delays in Statin Therapy Due to Statin Nonacceptance on Cardiovascular Outcomes in Patients with Diabetes**
Presenting Author: Alexander Turchin, MD, MS
- 2:15 p.m.-2:30 p.m.
- 57-OR Enhancing Diabetic Eye Disease Detection through Autonomous Artificial Intelligence Implementation in a Federally Qualified Health Center**
Presenting Author: Milibeth Castro, MPH
- 2:30 p.m.-2:45 p.m.
- 58-OR Screening for Diabetic Retinopathy Increases by 32% with Education and Intervention Program in Primary Care**
Presenting Author: Lesley Simon, BA
- 2:45 p.m.-3:00 p.m.
- 59-OR Improving Diabetic Kidney Disease Screening in a Veterans Affairs Primary Care Clinic**
Presenting Author: Kristina P. Frangella, PharmD, BCPS, CDE, BCACP
- 3:00 p.m.-3:15 p.m.
- 60-OR Implementing a Machine-Learning Model to Predict Risk of Chronic Kidney Disease (CKD) Progression**
Presenting Author: Thomas Ferguson, MSc
- 3:15 p.m.-3:30 p.m.
- 61-OR Effectiveness of Telemedicine plus Conventional Care vs. Conventional Care Alone in Reducing Complications of Diabetes—A Pilot Study**
Presenting Author: Jothydev Kesavadev, MD, FRCP, FACP, FACE

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR04-1.5

Novel Insights from CGM Use during Pregnancy

Room: W208

Chair: Amy M. Valent, DO, MCR

2:00 p.m.-2:15 p.m.

62-OR Continuous Glucose Monitoring in Pregnancies with Type 1 Diabetes—A Retrospective Study

Presenting Author: Stephanie A. Fisher, MD, MPH

2:15 p.m.-2:30 p.m.

63-OR Continuous Glucose Monitoring Prediction of Gestational Diabetes Mellitus and Adverse Pregnancy Outcomes

Presenting Author: Zoey Li, MS

2:30 p.m.-2:45 p.m.

64-OR Continuous Glucose Monitoring among Pregnant Individuals with Glucose Intolerance

Presenting Author: Rachel D. Gordon, MD

2:45 p.m.-3:00 p.m.

65-OR Continuous Glucose Monitoring Metrics and Suboptimal Pregnancy Outcomes in Women with Gestational Diabetes—Secondary Analysis of the DiGest Trial

Presenting Author: Claire L. Meek, MB, ChB, MRCP, FRCPath, PhD

3:00 p.m.-3:15 p.m.

66-OR Using Continuous Glucose Monitoring to Identify Neonatal Hypoglycemia following Gestational Diabetes—The DiGest Newborn Study

Presenting Author: Danielle Jones, BSc, MSc

3:15 p.m.-3:30 p.m.

67-OR Postprandial Glycemic Patterns throughout Uncomplicated Pregnancies

Presenting Author: Anders L. Carlson, MD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR07-1.5

New Approaches to Prevent or Reverse Diabetes

Room: W415C (Valencia Ballroom)

Chair: Catherine Kim, MD, MPH

- 2:00 p.m.-2:15 p.m.
- 68-OR Influence of the Type 1 Diabetes Genetic Risk Score on Response to Immunotherapies for Type 1 Diabetes Prevention**
Presenting Author: Maria J. Redondo, MD, PhD, MPH
- 2:15 p.m.-2:30 p.m.
- 69-OR Preclinical Studies Indicate That Inspanin Is a New Class of Antidiabetes Agent**
Presenting Author: Nikhil Dhurandhar, PhD
- 2:30 p.m.-2:45 p.m.
- 70-OR PROTECT Per-Protocol Analysis—Preserving β -Cell Function in Children and Adolescents with Newly Diagnosed Stage 3 Type 1 Diabetes (T1D)**
Presenting Author: Kevan C. Herold, MD
- 2:45 p.m.-3:00 p.m.
- 71-OR Rates of Remission and Metabolic Responses in Data-Driven High-Risk Prediabetes Clusters**
Presenting Author: Sarah Katzenstein, MD
- 3:00 p.m.-3:15 p.m.
- 72-OR Mechanisms of Prediabetes Remission in People with Weight Gain after Lifestyle Intervention**
Presenting Author: Arvid Sandforth, MD
- 3:15 p.m.-3:30 p.m.
- 73-OR The Plant-Based Substance Totum-63 (T63) Reduces Fasting Plasma Glucose and HbA1c in People with Prediabetes or Type 2 Diabetes (T2D)—A 24-Week Multicenter Randomized Controlled Trial (REVERSE-IT)**
Presenting Author: Andre Marette, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR13-1.5

New Technology—What's New? (With ADA Presidents' Select Abstract Presentation)

Room: W311

Chair: Chlodys Johnstone, PA-C

2:00 p.m.-2:15 p.m.

- 74-OR ADA Presidents' Select Abstract: CGM Metrics from Five Studies Identify Participants at High Risk of Imminent Type 1 Diabetes (T1D) Development**
Presenting Author: Peter Calhoun, PhD

2:15 p.m.-2:30 p.m.

- 75-OR In-Silico Replay of Insulin Degludec and Liraglutide Clinical Trial Data in Subjects with Type 2 Diabetes**
Presenting Author: Mohammadreza Ganjiarjenaki, Bachelor's Degree

2:30 p.m.-2:45 p.m.

- 76-OR Diabetes Technology and Waste—A Real-World Study in a Specialized Practice in Germany**
Presenting Author: Lutz Heinemann, PhD

2:45 p.m.-3:00 p.m.

- 77-OR Time in Range Is Associated with Glucagon/C-Peptide Index Ratio in Type 2 Diabetes Patients**
Presenting Author: Miki Kamigishi, MD

3:00 p.m.-3:15 p.m.

- 78-OR Breath Acetone Correlates with Capillary Beta Hydroxybutyrate in Type 1 Diabetes**
Presenting Author: Kai Jones, MD

3:15 p.m.-3:30 p.m.

- 79-OR A Novel Decision Support System for Automated Adaptations of Insulin Injections in Type 1 Diabetes—A Randomized Controlled Trial**
Presenting Author: Alessandra Kobayati, BSc, PhD Candidate

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Epidemiology/Genetics

Session Number: EG-OR01-1.5

Diabetes and the Liver—A Canary in the Coal Mine

Room: W207

Chair: Justin Echouffo Tcheugui, MD, PhD

2:00 p.m.-2:15 p.m.

- 80-OR Association of Nonalcoholic Fatty Liver Disease and Liver Fibrosis with Cardiovascular Disease, All-Cause, and Cause-Specific Mortality in Individuals with Type 2 Diabetes**

Presenting Author: Shaoyong Xu, PhD

2:15 p.m.-2:30 p.m.

- 81-OR Comparison of Screening Pathways of Advanced Fibrosis Due to MASLD in Diabetology**

Presenting Author: Cyrielle Caussy, MD, PhD

2:30 p.m.-2:45 p.m.

- 82-OR Association of Diabetic Complications and Various Comorbidities with Major Adverse Cardiovascular Events in Type 2 Diabetes and Their Development over Time—A Danish Registry-Based Case-Control Study**

Presenting Author: Nicklas H. Rasmussen, MD, PhD

2:45 p.m.-3:00 p.m.

- 83-OR Metabolic Dysfunction–Associated Steatotic Liver Disease and Nonalcoholic Fatty Liver Disease Have Similar Clinical Profiles and Mortality**

Presenting Author: Zobair Younossi, MD, MPH

3:00 p.m.-3:15 p.m.

- 84-OR Performance of FIB-4 Score in Predicting Mortality among Patients with Nonalcoholic**

Presenting Author: Pegah Golabi, MD

3:15 p.m.-3:30 p.m.

- 85-OR The Impact of Type 2 Diabetes (T2D) on the Outcomes of Liver Transplantation in the United States from 2007–2022**

Presenting Author: Maria Stepanova, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-OR01-1.5

Adipocyte Differentiation and Function

Room: W308

Chair: Katrin Svensson, PhD

86-OR WITHDRAWN

2:00 p.m.-2:15 p.m.

87-OR A PKA to mTORC1 Signaling Axis Controls Metabolic Homeostasis via Phosphorylation of Raptor

Presenting Author: Fubiao Shi, PhD

2:15 p.m.-2:30 p.m.

88-OR Glucose Regulation of Adipose Tissue Browning by CBP/p300 and HDAC3 Mediated Reversible Acetylation of CREBZF

Presenting Author: Yu Li, PhD

2:30 p.m.-2:45 p.m.

89-OR GPSM1 Regulates ER Ca²⁺-Myosin II Axis and Promotes Adipocyte Browning and Metabolic Health

Presenting Author: Jing Yan, PhD

2:45 p.m.-3:00 p.m.

90-OR Neddylation Targets Cullin 3 to Regulate Adipocyte Differentiation

Presenting Author: Hongyi Zhou, PhD

3:00 p.m.-3:15 p.m.

91-OR Selenite-Induced Glutathione Peroxidase 3 in the Control of Insulin Receptor Expression in Adipocytes

Presenting Author: Robert Hauffe, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-OR01-1.5

Immune Features of Immune Therapy and Evolution—Fickle or Fixed?

Room: W304 A-D

Chair: Cate Speake, PhD

2:00 p.m.-2:15 p.m.

92-OR Defining Type 1 Diabetes Endtypes

Presenting Author: Amina Bedrat, PhD

2:15 p.m.-2:30 p.m.

93-OR Clonal Expansion of Islet Reactive CD4 T-Cells with Early Disease Progression in Type 1 Diabetes

Presenting Author: Karen Cerosaletti, PhD

2:30 p.m.-2:45 p.m.

94-OR Pathogenic Action of GAD65 Autoantibodies on Islet Function in Type 1 Diabetes

Presenting Author: Ian Sweet, PhD

2:45 p.m.-3:00 p.m.

95-OR Diurnal Variation of Islet Autoantibodies in Established Type 1 Diabetes

Presenting Author: Linda A. DiMeglio, MPH, MD

3:00 p.m.-3:15 p.m.

96-OR Pancreatic Adverse Events and Mortality in Patients with Immune Checkpoint Inhibitor-Associated Diabetes Mellitus—A 10-Year Follow-up Study

Presenting Author: Shafaq Raza Rizvi, MBBS

3:15 p.m.-3:30 p.m.

97-OR Preclinical Characterization of MTX-101, a Novel KIRxCD8 Targeting Bispecific CD8 Treg Modulator

Presenting Author: Courtney Crane, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-OR01-1.5

Fueling the Fire—Islet Stimulus–Secretion Coupling

Room: W206

Chair: Yumi Imai, MD

2:00 p.m.-2:15 p.m.

98-OR β -Cell Dysfunction and Mitochondrial Loss Occur Independently of Insulinitis in Type 1 Diabetes Pathogenesis

Presenting Author: Mollie Huber, BS

2:15 p.m.-2:30 p.m.

99-OR SLC7A2-Dependent Arginine Transport in α -Cells Signals Arginine tone to Regulate Insulin Secretion

Presenting Author: Jade Stanley, BS

2:30 p.m.-2:45 p.m.

100-OR Investigating the Mechanisms of Cross Talk between Endocrine Beta Cells and Pericytes in Pancreatic Islets

Presenting Author: Luciana Mateus Goncalves, PhD

2:45 p.m.-3:00 p.m.

101-OR Revelations in Regulation—Sodium/Potassium ATPase Subunit Control of Beta-Cell Cation Handling and Insulin Secretion

Presenting Author: Matthew Dickerson, PhD

3:00 p.m.-3:15 p.m.

102-OR A Novel Strategy for Detecting In Vivo Functional β -Cells Using Positron Emission Tomography (PET) Imaging

Presenting Author: Junfeng Li, PhD

3:15 p.m.-3:30 p.m.

103-OR Signaling Mechanisms Underlying Islet Compensation in a Novel Mouse Model of β -Cell Replication Deficiency

Presenting Author: Hannah R. Foster, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR01-1.5

Actions of Incretins in the Brain and Beyond (*Includes Livestream*)

Room: W414

Chair: Daisy Duan, MD

2:00 p.m.-2:15 p.m.

104-OR State-Dependent Activity in Hindbrain Glucagon-Like Peptide 1-Producing Neurons Regulates Consummatory and Valence Behavior through Functionally Interconnected Hypothalamic and Limbic Circuits

Presenting Author: James A. Hardaway, PhD

2:15 p.m.-2:30 p.m.

105-OR Single-Cell Multiomic Analysis of the Effect of GIP and GIP-1 Mono- and Multi-agonism on the Hypothalamus and Hindbrain

Presenting Author: Robert M. Gutgesell, HBSc, MSc

2:30 p.m.-2:45 p.m.

106-OR Semaglutide Reduces Tumor Burden in the GAN Diet-Induced Obese and Biopsy-Confirmed Mouse Model of MASH with Advanced Fibrosis and HCC

Presenting Author: Henrik H. Hanse, PhD

2:45 p.m.-3:00 p.m.

107-OR Brain GLP-1R Is Likely Required for Peripheral Liraglutide Treatment on Stimulating Hepatic FGF21

Presenting Author: Jia Nuo Feng, BS (Hons)

3:00 p.m.-3:15 p.m.

108-OR Insulin Resistance Is Associated with Alterations in the Dynamics of Incretin Secretion

Presenting Author: Gianfranco Di Giuseppe, MD

3:15 p.m.-3:30 p.m.

109-OR GIP Acutely Blunts Insulin- and GLP-1-Induced Muscle Microvascular Perfusion

Presenting Author: Jia Liu, PhD

FRIDAY, JUNE 21, 2024

2:00 p.m.-3:30 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR05-1.5

Emerging New Players in Metabolic Regulation

Room: W314

Chair: Meilian Liu, PhD

2:00 p.m.-2:15 p.m.

110-OR Paternal Metabolism Modulates the Metabolome of Offspring during the Early Embryonic Period

Presenting Author: Rafael Ferraz-Bannitz, PhD

2:15 p.m.-2:30 p.m.

111-OR Vascular Endothelium-Specific ROCK2 Deficiency Inhibits the Progression of Obesity via Adipocyte Browning

Presenting Author: Shinji Ohashi, MD

2:30 p.m.-2:45 p.m.

112-OR A Novel Function of Endothelial Insulin-Like Growth Factor 1 Receptor—Regulation of Gastrointestinal Microbiota as a Defensive Mechanism against Obesity-Induced Metabolic Dysfunction

Presenting Author: Natalie J. Haywood, PhD

2:45 p.m.-3:00 p.m.

113-OR Lipocalin-2, a Mitokine That Mediates White-to-Brown Fat Cross Talk

Presenting Author: Fenfen Wang, PhD

3:00 p.m.-3:15 p.m.

114-OR Proteome-Wide Analysis of USP2 Substrates Revealed Its Role in Thermogenesis via Stabilization of EBF2

Presenting Author: Yuejie Xu, Doctor

3:15 p.m.-3:30 p.m.

115-OR Adipose m⁶A Reader YTHDF2 Regulates White Adipose Tissue Growth and Metabolism

Presenting Author: Ruoyu Zhou, MD

FRIDAY, JUNE 21, 2024

3:45 p.m.-5:15 p.m.

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY01-1.5

Systemic Medications for Diabetic Retinopathy—Protective and Risk Factors

Room: W208

Chair: Thomas W. Gardner, MD, MS

3:45 p.m.-3:55 p.m. *Introduction*

3:55 p.m.-4:15 p.m. *The Effect of Fenofibrate on Progression of Diabetic Retinopathy—Results from the LENS Trial*

David Preiss, MBChB, MRCP, FRCPATH, PhD

4:15 p.m.-4:30 p.m. *Role of Systemic Pharmacotherapy in the Prevention and Management of Diabetic Macular Edema*

Andrew J. Barkmeier, MD

4:30 p.m.-4:45 p.m. *The FAME 1 Eye Trial*

Alicia Jenkins, MBBS, MD, FRACP, FRCP

4:45 p.m.-5:00 p.m. *GLP-1 Receptor Agonist and Diabetic Retinopathy Worsening*

Satish K. Garg, MD

5:00 p.m.-5:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY07-1.5

Sex and Gender Dimorphism in Cardiovascular Disease Risk in Diabetes

Room: W308

Chair: Wendy L. Bennett, MD, MPH

3:45 p.m.-4:05 p.m. *Sex and Gender-Specific Cardiovascular Disease Risk Factors*

Wendy L. Bennett, MD, MPH

4:05 p.m.-4:25 p.m. *Is High-Density Lipoprotein a Risk Factor for Men?*

Ernst J. Schaefer, MD

4:25 p.m.-4:45 p.m. *Impact of Biological and Chromosomal Sex on Postprandial Lipid Metabolism*

Karen Reue, PhD

4:45 p.m.-5:05 p.m. *Sex Differences in Lipoprotein Metabolism*

John M. Stafford, MD, PhD

5:05 p.m.-5:15 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

3:45 p.m.–5:15 p.m.
(continued)

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY17-1.5

Joint ADA/Centers for Disease Control and Prevention Symposium—Pressure Points and Future Directions in the Prevention of Acute and Chronic Diabetes-Related Complications
(Includes Livestream)

Room: W307

Co-Chairs: Christopher S. Holliday, PhD, MPH, MA, FACHE and Steven E. Kahn, MB, ChB

3:45 p.m.–4:05 p.m. *Trends and Inequalities in Diabetes-Related Complications among U.S. Adults with Diabetes, 2000–2020*
Ryan Saelee, MPH, PhD

4:05 p.m.–4:25 p.m. *Ameliorating Care Fragmentation to Prevent Diabetes-Related Microvascular Complications*
Francisco J. Pasquel, MD, MPH

4:25 p.m.–4:45 p.m. *Advancing Cardiometabolic Health and Reducing Cardiovascular Risk in Diabetes through Academic–Community–Government–Industry Partnerships*
Joshua J. Joseph, MD, MPH, FAHA

4:45 p.m.–4:55 p.m. *Discussant*
Shivani A. Patel, PhD

4:55 p.m.–5:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY05-1.5

Consensus or Controversy? Hot Topics in Nutrition 2024

Room: W314

Chair: Holly J. Willis, PhD, RDN, CDCES

3:45 p.m.–4:05 p.m. *The WHO Said WHAT? Use of Nonnutritive Sweeteners for Weight Management, Prediabetes, and Diabetes*
Katherine Appleton, PhD, RD

4:05 p.m.–4:25 p.m. *Does the Gut Rule? Influence of the Microbiome on Diabetes and Obesity*
Abby Johnson, PhD, RD

4:25 p.m.–4:45 p.m. *Counting Calories or Counting the Hours—Time-Restricted Eating*
Krista Varaday, PhD

4:45 p.m.–5:05 p.m. *Protein Quantity, Quality, and Timing for Weight Management and Glycemia*
Alpana Shukla, MD

5:05 p.m.–5:15 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

3:45 p.m.-5:15 p.m.
(continued)

Case Studies

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-CS12-1.5

New Tools, Old Approaches—Rethinking Glucose Monitoring in Real-Life Settings

Room: W311

Chair: Natalie J. Bellini, DNP, FNP-BC, BC-ADM

3:45 p.m.-4:05 p.m. *The Time Was Yesterday—Continuous Glucose Monitoring (CGM) in the Inpatient Setting*

Eileen R. Faulds, PhD, RN, FNP-BC, CDCES

4:05 p.m.-4:25 p.m. *Classroom or Clinic? Continuous Glucose Monitoring (CGM) in the School Setting*

Christine March, MD, MS

4:25 p.m.-4:45 p.m. *Let Campers (and Counselors) Sleep! Remote Glucose Monitoring at Camp*

Jamie R. Wood, MD

4:45 p.m.-5:05 p.m. *Continuous Glucose Monitoring (CGM) in Long-Term Care Facilities*

Medha Munshi, MD

5:05 p.m.-5:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY08-1.5

Important Safety Information—Off-Target Effects of New Therapies for Diabetes (Includes Livestream)

Room: W414

Chair: Steve Nissen, MD

3:45 p.m.-4:05 p.m. *GLP-1 Receptor Agonists*

Tina Vilsbøll, MD, DMSc

4:05 p.m.-4:25 p.m. *SGLT2 Inhibitors*

Ronald M. Goldenberg, MD, FRCPC, FACE

4:25 p.m.-4:45 p.m. *New Insulin Formulations*

Anne L. Peters, MD

4:45 p.m.-5:05 p.m. *Fixed-Ratio Insulin Combinations*

Liana K. Billings, MD, MMSc

5:05 p.m.-5:15 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

3:45 p.m.-5:15 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY33-1.5

Standards of Care 2024 Updates and Cost of Diabetes in United States

Room: W315

Chair: Nuha El Sayed, MD, MMSc

3:45 p.m.-4:30 p.m. *Team-Based Care*

Nuha El Sayed, MD, MMSc

Jason L. Gaglia, MD, MMSc

Grazia Aleppo, MD, FACE, FACP

Dennis Bruemmer, MD, PhD

Ildiko Lingvay, MD, MPH, MSCS

Nicola Napoli, MD, PhD

4:30 p.m.-4:45 p.m. *Economic Costs of Diabetes in the United States*

Nuha El Sayed, MD, MMSc

Raveendhara Bannuru, MD, PhD, FAGE

4:45 p.m.-5:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY49-1.5

SURMOUNT-OSA Trial Results and Potential Role of Tirzepatide in Treating Obesity-Related Obstructive Sleep Apnea (Includes Livestream)

Room: W320 (Chapin Theater)

Co-Chairs: Ania M. Jastreboff, MD, PhD and Atul Malhotra, MD

3:45 p.m.-4:00 p.m. *Cardiometabolic Consequences of OSA—Towards Personalized Treatment*

Esra Tasali, MD

4:00 p.m.-4:15 p.m. *Current Therapeutic Landscape for Treating Sleep Apnea and Potential Role of Incretins*

Vaishnavi Kundel, MD, MS

4:15 p.m.-4:25 p.m. *Tirzepatide and SURMOUNT-OSA—Rationale, Hypotheses, and Study Design*

Richard J. Schwab, MD

4:25 p.m.-4:45 p.m. *SURMOUNT-OSA—Efficacy and Safety*

Atul Malhotra, MD

4:45 p.m.-4:55 p.m. *Putting SURMOUNT-OSA Results in Context, and Implications Regarding Treatment of Patients with Obesity-Related OSA*

Louis J. Aronne, MD, FACP, DABOM

4:55 p.m.-5:15 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

3:45 p.m.-5:15 p.m.
(continued)

Symposium

Theme Area: Epidemiology/Genetics

Session Number: EG-SY02-1.5

United States Veterans and Diabetes—Not Gone and Not Forgotten

Room: W207

Chair: Dina H. Griauzde, MD, MSc

3:45 p.m.-4:05 p.m. *Diabetes and Complications in Veterans*

Elizabeth M. Litkowski, PhD

4:05 p.m.-4:25 p.m. *Mental Health and Diabetes in Veterans*

Naomi Kane, PhD

4:25 p.m.-4:45 p.m. *Million Veterans Program*

Primary Speaker: TBD

4:45 p.m.-5:05 p.m. *Telehealth Interventions to Improve Outcomes in Veterans with Diabetes*

Matthew J. Crowley, MD, MHS

5:05 p.m.-5:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-SY05-1.5

Joint ADA/IPITA Symposium—Clinical Beta-Cell Replacement Therapy Today *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Co-Chairs: Michael R. Rickels, MD, MS and Melena Bellin, MD

3:45 p.m.-4:05 p.m. *Evaluation of the Patient with Diabetes for Beta-Cell Replacement*

Anna Lam, MD, MSc

4:05 p.m.-4:25 p.m. *The Psychological Impact of Islet or Pancreas Transplantation*

Jane Speight, MSc, PhD, CPsychol, FBPSS

4:25 p.m.-4:45 p.m. *Monitoring and Treatment of Recipients for Rejection or Type 1 Diabetes Recurrence*

Michiel Nijhoff, MD, MSc

4:45 p.m.-5:05 p.m. *Update on Clinical Trials Using Stem-Cell Replacement*

Piotr Witkowski, MD, PhD

5:05 p.m.-5:15 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

3:45 p.m.-5:15 p.m.
(continued)

Symposium

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-SY03-1.5

The Second Act—Redefining the Signaling Mediators of Glucose Uptake in Muscle

Room: W304 A-D

Chair: Paul M. Titchenell, PhD

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| 3:45 p.m.-4:05 p.m. | <i>Control of Glucose Transport by Novel Insulin-Signaling Pathways</i>
Lykke Sylow, PhD |
| 4:05 p.m.-4:25 p.m. | <i>Control of Muscle Glucose Metabolism by the Adipokine Isthmin-1</i>
Katrín Svensson, PhD |
| 4:25 p.m.-4:45 p.m. | <i>Linking Mitochondrial Energetics to Insulin Sensitivity and Glucose Metabolism</i>
P. Darrell Neuffer, PhD |
| 4:45 p.m.-5:05 p.m. | <i>Regulation of GLUT4 by TUG Proteins</i>
Jonathan Bogan, MD |
| 5:05 p.m.-5:15 p.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY07-1.5

CNS Effects of GLP-1RA—Beyond Diabetes and Obesity

Room: W304 E-H

Chair: Janice J. Hwang, MD

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| 3:45 p.m.-4:15 p.m. | <i>GLP-1RA in Alcohol Use Disorder</i>
Lorenzo Leggio, MD, PhD |
| 4:15 p.m.-4:45 p.m. | <i>GLP-1RA and Thirst</i>
Derek Daniels, PhD |
| 4:45 p.m.-5:15 p.m. | <i>GLP-1 Actions on Neurodegeneration and Neuroinflammation</i>
Nigel H. Greig, PhD |

Symposium

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-SY02-1.5

Taking a Closer Look—Subcellular Approaches to Islet Biology

Room: W206

Chair: Rafael Arrojo e Drigo, PhD

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| 3:45 p.m.-4:15 p.m. | <i>Contributions of the Microtubule Cytoskeleton to Beta-Cell Biology</i>
Irina Kaverina, PhD |
| 4:15 p.m.-4:45 p.m. | <i>Cilia, Microvilli, and Membrane Localized Glycolysis in The Beta Cell</i>
Matthew J. Merrins, PhD |
| 4:45 p.m.-5:15 p.m. | <i>Metabolic Control of Beta-Cell Secretory Capacity</i>
Samuel B. Stephens, PhD |

FRIDAY, JUNE 21, 2024

3:45 p.m.-5:15 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR10-1.5

Beyond Glucose and Weight Reduction—Additional Effects of Incretin-Based Therapies

Room: W415C (Valencia Ballroom)

Chair: Michael A. Nauck, MD

3:45 p.m.-4:00 p.m.

- 116-OR GL0034 (Ureglutide), a Novel GLP-1RA, Increases Liver FGF-21 and Demonstrates Significant Efficacy on Weight Loss, HbA1c, and Triglycerides in db/db Mice**

Presenting Author: Rajamannar Thennati, PhD

4:00 p.m.-4:15 p.m.

- 117-OR Effects of Triple-Hormone Receptor Agonist Retatrutide on Lipid Profiling in Participants with Obesity**

Presenting Author: Valentina Pirro, PhD

4:15 p.m.-4:30 p.m.

- 118-OR The Apelin Receptor Agonist Azelaprag Increases Weight Loss in Diet-Induced Obese Mice on Incretin Agonists and Restores Body Composition and Muscle Function to That of Lean Controls**

Presenting Author: Paul Rubin, MD

4:30 p.m.-4:45 p.m.

- 119-OR Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of a Novel Ultra-Long-Acting GLP-1 Receptor Agonist (ZT002) in Healthy Subjects**

Presenting Author: Yuanyuan Zhang, PhD

4:45 p.m.-5:00 p.m.

- 120-OR Efficacy of Tirzepatide in Achieving the Composite Endpoints of Glycemic, Blood Pressure, and Lipid Goals in SURMOUNT-2**

Presenting Author: Naveed Sattar, MD, PhD

5:00 p.m.-5:15 p.m.

- 121-OR Safety, Tolerability, and Metabolic Effects of Once-Weekly GL0034 (Ureglutide) in Individuals with Obesity—A Multiple Ascending Dose Study**

Presenting Author: Rajamannar Thennati, PhD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.

Debate

Theme Area: Acute and Chronic Complications

Session Number: AC-DB05-1

Sulfonylureas in Type 2 Diabetes Management—Should They Stay or Should They Go? *(Includes Livestream)*

Room: W307

Chair: Rozalina G. McCoy, MD, MS

5:30 p.m.-5:45 p.m. *Sulfonylureas Remain Useful Agents in the Management of Type 2 Diabetes*

Elbert S. Huang, MD, MPH, FACP

5:45 p.m.-6:00 p.m. *We Need to Stop Using Sulfonylureas for the Treatment of Type 2 Diabetes*

Deborah J. Wexler, MD, MSc

6:00 p.m.-6:05 p.m. *Rebuttal*

Elbert S. Huang, MD, MPH, FACP

6:05 p.m.-6:10 p.m. *Rebuttal*

Deborah J. Wexler, MD, MSc

6:10 p.m.-6:30 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY35-1

Liver Health in Diabetes *(Includes Livestream)*

Room: W320 (Chapin Theater)

Co-Chairs: Kenneth Cusi, MD and Nuha El Sayed, MD, MMSc

5:30 p.m.-5:40 p.m. *Team-Based Care*

Kenneth Cusi, MD

Nuha El Sayed, MD, MMSc

5:40 p.m.-5:50 p.m. *Epidemiology/Hepatology*

Zobair Younossi, MD, MPH

5:50 p.m.-6:00 p.m. *Endocrinology and Obesity*

Michael Roden, MD

6:00 p.m.-6:05 p.m. *Nutrition*

Karen D. Corbin, PhD, RD

6:05 p.m.-6:10 p.m. *Physical Activity and Exercise*

Elizabeth J. Pekas, PhD

6:10 p.m.-6:20 p.m. *Primary Care*

Caroline R. Richardson, MD

6:20 p.m.-6:30 p.m. *Question and Discussion Period*

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR07-1

New Biomarkers to Inform Lipid Therapies in Diabetes (With ADA Presidents' Select Abstract Presentation)

Room: W206

Chair: Laura den Hartigh, PhD

5:30 p.m.-5:45 p.m.

122-OR ADA Presidents' Select Abstract: Lower Plasma Levels of Truncated Apolipoprotein C-I Are Associated with Increased Risk of Diabetes Multiethnic Study of Atherosclerosis
Presenting Author: Juraj Koska, MD, PhD

5:45 p.m.-6:00 p.m.

123-OR MiR103 as a Potential Inhibitor for Dyslipidemia through Modulation of ANGPTL8 Level
Presenting Author: Jehad Abubaker, PhD

6:00 p.m.-6:15 p.m.

124-OR Intervention of Select Lipid Signaling Reduces Type 1 Diabetes Incidence
Presenting Author: Sasanka Ramanadham, PhD

6:15 p.m.-6:30 p.m.

125-OR New Lipid Biomarkers for Worsening Glucose Tolerance in Nondiabetic Relatives of People with Type 2 Diabetes
Presenting Author: Ismail Syed, MS, PhD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR14-1

Unraveling Molecular Signatures, Biomarkers, and Methods for Neuropathy, Cognitive Decline, and Foot Ulcers

Room: W208

Chair: Rayaz A. Malik, MD, PhD

5:30 p.m.-5:45 p.m.

126-OR Differences of Three-Dimensional Pathology of Dorsal Root Ganglia in Neuropathy of Type 1 and Type 2 Diabetes Mellitus

Presenting Author: Hiroki Mizukami, MD, PhD

5:45 p.m.-6:00 p.m.

127-OR Identification of Exosomal miRNA as a Novel Causal Biomarker for Cognitive Impairment in Type 2 Diabetes Mellitus—Triangulating Evidence from Mendelian Randomization Analyses and Multicenter Cohort

Presenting Author: Sijue Yang, PhD Candidate

6:00 p.m.-6:15 p.m.

128-OR Investigating C-Fiber Activity Using Depolarizing Stimuli Provides Insight into the Natural Course of Diabetic Polyneuropathy

Presenting Author: Zoltan Kender, MD, PhD

6:15 p.m.-6:30 p.m.

129-OR Increased Triglyceride Levels Are Associated with a Distinct Lipid-Associated Protein Biomarker Profile of Diabetic Foot Ulcers

Presenting Author: Marija Petkovic, PhD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR05-1

Medical Nutrition Therapy—Moving Beyond Traditional Outcome Measures

Room: W314

Chair: Gretchen Benson, RDN, CDCES

5:30 p.m.-5:45 p.m.

130-OR Mediterranean Diet and Gestational Diabetes—What Is the Role of Exposure to Persistent Organic Pollutants

Presenting Author: Guoqi Yu, PhD

5:45 p.m.-6:00 p.m.

131-OR A Multiomics Study of Individual Responses to Long-Term Mediterranean Diet Interventions in the DIRECT-PLUS Trial

Presenting Author: Danyue Dong, PhD

6:00 p.m.-6:15 p.m.

132-OR Structured Medical Nutrition Therapy Improves Glycemia, Reduces Percentage Body Fat while Maintaining Fat-Free Mass in Individuals with Overweight/Obesity and Type 2 Diabetes

Presenting Author: Adham Mottalib, MD

6:15 p.m.-6:30 p.m.

133-OR Efficacy of a Culturally Tailored Mediterranean-Like Diet Intervention on Cardiometabolic Risk Factors

Presenting Author: Josiemer Mattei, PhD, MPH

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR07-1

Innovative Diabetes Self-Management Education across Diverse Populations

Room: W308

Chair: Rebecca Longo, MSN, ACNP-BC, CDCES

5:30 p.m.-5:45 p.m.

134-OR The Safety and Efficacy of Virtual Insulin Pump Initiation in Children and Adolescents with Type 1 Diabetes in the United States

Presenting Author: Margaret Pellizzari, MBA, MS, RN, CDCES, CPT, FADCES

5:45 p.m.-6:00 p.m.

135-OR The Effects of the WE-GDM Program for Women with Gestational Diabetes Mellitus and Their Partners on Blood Glucose Levels and Communal Coping—A Randomised Controlled Trial

Presenting Author: Min Guo, PhD

6:00 p.m.-6:15 p.m.

136-OR Examining New-Onset Type 1 Diabetes Educational Practices among Centers in the T1D Exchange Quality Improvement Collaborative (T1DX-QI)

Presenting Author: Ryan McDonough, DO

6:15 p.m.-6:30 p.m.

137-OR Outcomes of Real-World Deployment of the Dulce Digital Texting Education Platform for Low-Income Diverse Populations with Diabetes

Presenting Author: Monica Ruiz, MA

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR12-1

SGLT2 Inhibition Impact on Human Physiology

Room: W415C (Valencia Ballroom)

Chair: Hiddo L. Heerspink, PhD

5:30 p.m.-5:45 p.m.

- 138-OR Pioglitazone Amplifies the Decrease in HbA1c and Prevents the Increase in Plasma Ketone Caused by Dapagliflozin in Type 1 Diabetes Mellitus Patients**
Presenting Author: Gozde Baskoy, MD

5:45 p.m.-6:00 p.m.

- 139-OR Empagliflozin Enhances Hepatic Glucose Production and Reduces Total-Body Norepinephrine Turnover Rate—A Randomized Trial**
Presenting Author: Siham Abdelgani, MD

6:00 p.m.-6:15 p.m.

- 140-OR The Coronary Flow Reserve Increase after Dapagliflozin Treatment in Patients with Type 2 Diabetes Is Maintained after Four Years—A Four-Year DAPAHEART Follow-up Study**
Presenting Author: Cassandra Morciano, MD

6:15 p.m.-6:30 p.m.

- 141-OR Cardioprotective Effect of Empagliflozin and Modification of Sirtuins and Their Noncoding RNAs Regulators in Patients with Myocardial Infarction**
Presenting Author: Anna Nowak, MD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR17-1

New Technology—Equity and Access

Room: W315

Chair: Priya Prahalad, MD, PhD

5:30 p.m.-5:45 p.m.

142-OR A1C and Average Glucose Discordance—Personalized A1C Improves the Discrepancy, Particularly in Black Individuals

Presenting Author: Ramzi Ajjan, MD, PhD, FRCP, MMedSci

5:45 p.m.-6:00 p.m.

143-OR A1C Change after Initiating Continuous Glucose Monitoring (CGM) for People with Diabetes in a Large U.S. Managed Health Care Plan

Presenting Author: Gregory J. Norman, PhD

6:00 p.m.-6:15 p.m.

144-OR A Randomized Clinical Trial of Automated Insulin Delivery in Elderly with Type 1 Diabetes

Presenting Author: Yogish C. Kudva, MD

6:15 p.m.-6:30 p.m.

145-OR Assessing the Current State of Diabetes Care in Long-Term Facilities Using Continuous Glucose Monitoring

Presenting Author: Medha Munshi, MD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR18-1

Pediatric Obesity and Type 2 Diabetes

Room: W311

Chair: Fida Bacha, MD, FAAP

5:30 p.m.-5:45 p.m.

146-OR Clustering Pediatric Type 2 Diabetes Patients Exposes Differential Responses to Therapeutic Interventions

Presenting Author: Raymond J. Kreienkamp, MD, PhD

5:45 p.m.-6:00 p.m.

147-OR Obesity Is Associated with Increased Clearance and Reduced Drug Exposure to Metformin in Youth with Type 2 Diabetes

Presenting Author: Shylaja Srinivasan, MD, MAS

6:00 p.m.-6:15 p.m.

148-OR Increased Insulin Secretion and Decreased Insulin Sensitivity in South Asian Youth without Diabetes

Presenting Author: Sheela N. Magge, MD, MSCE

6:15 p.m.-6:30 p.m.

149-OR Liver Health in Adolescents with Youth-Onset Type 2 Diabetes

Presenting Author: Amy S. Shah, MD, MS

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Epidemiology/Genetics

Session Number: EG-OR03-1

The New Frontier in Risk Profiling for Diabetes—Blood, Guts, and Glory

Room: W207

Chair: Sagar B. Dugani, MD, PhD, MPH

5:30 p.m.-5:45 p.m.

**150-OR Gut Microbial Metabolism of Bile Acids, Mediterranean Diet and
Cardiometabolic Risk in the DIRECT-PLUS Trial**

Presenting Author: Peipei Gao, MSc

5:45 p.m.-6:00 p.m.

**151-OR Metabolomics Profiles Underlying Development of Microvascular
Complications in the Diabetes Prevention Project Outcome Study (DPPOS)**

Presenting Author: Wei Perng, PhD, MPH

6:00 p.m.-6:15 p.m.

**152-OR Sex Differences in Metabolomics and Risk of Coronary Heart Disease in Type 2
Diabetes**

Presenting Author: Yilin Yoshida, PhD, MPH

6:15 p.m.-6:30 p.m.

**153-OR Gut Microbiota, Blood Metabolome, and Incident Type 2 Diabetes in U.S.
Hispanics**

Presenting Author: Kai Luo, PhD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Epidemiology/Genetics

Session Number: EG-OR06-1

Type 1 Diabetes Genome, Epigenome, and CRISPR Screens *(Includes Livestream)*

Room: W414

Chair: Catherine C. Robertson, PhD

5:30 p.m.-5:45 p.m.

154-OR Genetic Predictors of Response to Oral Insulin for Type 1 Diabetes Prevention

Presenting Author: Lu You, PhD

5:45 p.m.-6:00 p.m.

155-OR Genetic Variation and Time to Progression in TN10 (Teplizumab)

Presenting Author: Dominika A. Michalek, BS, MS

6:00 p.m.-6:15 p.m.

156-OR Genome-Wide CRISPR Screen Identified That Alternative Splicing Regulates in Insulin Secretion

Presenting Author: Siying Wei, PhD

6:15 p.m.-6:30 p.m.

157-OR Epigenome-Wide Discovery of the Maternal Effect in Type 1 Diabetes Risk

Presenting Author: Randi K. Johnson, MPH, PhD

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-OR06-1

Clinical Efforts to Study the Pathogenesis of Insulin Resistance

Room: W304 E-H

Chair: Daniel F. Vatner, MD, PhD

5:30 p.m.-5:45 p.m.

158-OR Relationship between Obesity, Sarcopenia, and Insulin Resistance in Older Adults

Presenting Author: Ali A. Rizvi, MD

5:45 p.m.-6:00 p.m.

159-OR Sequential Measurements of Insulin Resistance in the Assessment of Individuals Participating In Diabetes Prevention Programs

Presenting Author: Michael J. McPhaul, MD

6:00 p.m.-6:15 p.m.

160-OR PI3K Inhibition with Single-Dose Alpelisib as a Model of Insulin Resistance in Healthy Adults

Presenting Author: Joshua R. Cook, MD, PhD

6:15 p.m.-6:30 p.m.

161-OR Type A Insulin Resistance Can Be Misdiagnosed as Type 1 or Type 2 Diabetes—A Cautionary Tale

Presenting Author: Kaci Wirthwein, BA

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-OR03-1

Immune and Adipose Tissue Intersection

Room: W304 A-D

Chair: Clive Wasserfall, MS, PhD

5:30 p.m.-5:45 p.m.

- 162-OR Sustained TNF- α Transcription Triggered in Obesity through H3K9/K18 Acetylation Is Associated with Metabolic Impairments**
Presenting Author: Rasheed Ahmad, PhD

5:45 p.m.-6:00 p.m.

- 163-OR RNAseq Analysis Reveals Temporal Dynamics of Colonic Immune Response to High-Fat Diet in Mice**
Presenting Author: Lena Keller, MS, PhD Student

6:00 p.m.-6:15 p.m.

- 164-OR Macrophage Ucp1 Deficiency Inhibits Cold Exposure-Induced Insulin Sensitivity in High-Fat Diet Mice**
Presenting Author: Liming Sun, Doctor Degree

6:15 p.m.-6:30 p.m.

- 165-OR Lipid Signaling in Macrophages Contributes to Inflammatory Transcriptome in Immune Cells**
Presenting Author: Abdulaziz Almutairi, MS

FRIDAY, JUNE 21, 2024

5:30 p.m.-6:30 p.m.
(continued)

Oral Presentations

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-OR05-1

Islet Potpourri Oral Abstracts *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Chair: Barak Blum, PhD

5:30 p.m.-5:45 p.m.

166-OR The Alpha-Catenin-Cholesterol Biosynthesis Axis Regulates Tight Junction Formation in Pancreatic Islets

Presenting Author: Wilma Tixi, PhD

5:45 p.m.-6:00 p.m.

167-OR Targeting Alpha Cells to Treat Hypoglycemia in Type 1 Diabetes

Presenting Author: Julia Panzer, PhD

6:00 p.m.-6:15 p.m.

168-OR Perilipin 2 Regulates Fatty Acid Trafficking to Mitochondria through Microlipophagy in Beta Cells

Presenting Author: Siming Liu, MD, PhD

6:15 p.m.-6:30 p.m.

169-OR LC3+ Extracellular Vesicles (EVs) Are Associated with Altered -Cell Autophagy, Islet Inflammation, and Diabetes

Presenting Author: Jerry Xu, PhD

FRIDAY, JUNE 21, 2024

6:30 p.m.-8:30 p.m.

American Diabetes Association Networking Reception

Exhibit Hall (West A1-A3)

SATURDAY, JUNE 22, 2024

Scientific Sessions
8:00 a.m.-9:30 a.m.

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY09-1.5

SELECT Trial—New Looks at Glycemia, Inflammation, and Heart Failure *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Chair: Darren K. McGuire, MD, MHSc, FAHA, FACC, FESC

8:00 a.m.-8:20 a.m. *SELECT—An Overview of the Study and the Weight Outcomes*

Donna H. Ryan, MD

8:20 a.m.-8:40 p.m. *Semaglutide and Prediabetes Progression/Regression in People with Vascular Disease—What Have We Learned from SELECT?*

Steven E. Kahn, MD, ChB

8:40 a.m.-9:00 a.m. *Role of Glycemia on Cardiovascular Outcomes—New Data from SELECT*

Ildiko Lingvay, MD, MPH, MSCS

9:00 a.m.-9:20 a.m. *Heart Failure and Inflammation Outcomes in SELECT*

Jorge Plutzky, MD

9:20 a.m.-9:30 a.m. *Discussant*

Shivani Misra, MD, PhD

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY12-1.5

Navigating the Spatial Landscape—Omics in Diabetic Kidney Disease

Room: W208

Chair: Jennifer A. Schaub, MD

8:00 a.m.-8:30 a.m. *Mapping the Transcriptomic Universe—Spatial Transcriptomics in Deciphering Diabetic Nephropathy*

Parker C. Wilson, MD, PhD

8:30 a.m.-9:00 a.m. *Metabolites in 3D—How Spatial Metabolomics Revolutionizes Our Understanding of Diabetic Kidney Disease*

Kumar Sharma, MD

9:00 a.m.-9:30 a.m. *A Deeper Look at Proteins—Spatial Proteomics in Diabetic Kidney Pathogenesis*

Victor Puelles, MD, PhD

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY13-1.5

Type 2 Diabetes and Exercise—Where Do We Stand?

Room: W314

Chair: Judith G. Regensteiner, PhD

8:00 a.m.-8:30 a.m. *Incretin-Based Pharmacotherapy, (Osteo)sarcopenia, and Exercise*

Samuel Klein, MD

8:30 a.m.-9:00 a.m. *It's About Time—The Interaction of Exercise and Meal Timing*

Melissa Erickson, PhD

9:00 a.m.-9:30 a.m. *Maintaining Muscle Mass and Metabolic Health—Resistance Exercise in Type 2 Diabetes*

Ronald J. Sigal, MD, MPH, FRCPC

SATURDAY, JUNE 22, 2024

8:00 a.m.-9:30 a.m.
(continued)

Session Type: Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY14-1.5

NIDDK Early Career Investigator Symposium—Leveraging Social Support to Improve Diabetes Self-Management and Health Outcomes—Innovative Methods and Interventions

Room: W311

Co-Chairs: Maureen Monaghan Center, PhD and Miranda Broadney, MD, MPH

8:00 a.m.-8:05 a.m. *Welcome Remarks from the NIDDK Director*
Griffin Rodgers, MD, MACP

8:05 a.m.-8:20 a.m. *You're Not the Boss of Me!—Innovative Methods and Analyses to Assess the Impact of Caregivers on Diabetes Management and Psychosocial Outcomes of Adolescents with Diabetes*
Daniel R. Tilden, MD, MPH

8:20 a.m.-8:35 a.m. *Innovative Methods and Analyses to Assess the Impact of Supportive Others on Diabetes Self-Management and Outcomes—Evaluation of Social Support and Social Networks in Rural-Dwelling Older Adults with Type 2 Diabetes*
Brittany L. Smalls, PhD, MHSA, MSHPsych

8:35 a.m.-8:50 a.m. *Interventions Leveraging Social Support to Improve Diabetes Self-Management and Outcomes—Adaptation and Tailoring of a Type 1 Diabetes Education and Support (T1DES) Intervention to Improve Diabetes Distress among Black Young Adults*
Teaniese L. Davis, PhD

8:50 a.m.-9:05 a.m. *Leveraging Social Support to Improve Diabetes Self-Management and Outcomes—Mobile Health Interventions for Adults with Type 2 Diabetes and Support Persons*
Lindsay S. Mayberry, PhD

9:05 a.m.-9:30 a.m. *Panel—Question and Discussion Period*

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY15-1.5

ADA Education Recognition Program (ERP)—Diversifying Diabetes Self-Management Education and Support (DSMES) Delivery Models

Room: W304 A-D

Chair: Gene Arnold, MS, RD, LD, CDE

8:00 a.m.-8:15 a.m. *Aligning Therapeutic Education with DSMES*
Zoltan Pataky, MD

8:15 a.m.-8:30 a.m. *Improving Diabetes Management in the Elderly—DSMES in Home Health*
Kyle Lavergne, DNP

8:30 a.m.-8:45 a.m. *Operationalizing Delivery of DSMES in Home Health*
Rena' Thompson, RN, WTA, CDCES

8:45 a.m.-9:00 a.m. *Providing DSMES within Blue Cross and Blue Shield*
Linda Roberto, RN

9:00 a.m.-9:15 a.m. *Innovative Approaches to State-Funded Delivery of DSMES at Scale*
Gene Arnold, MS, RD, LD, CDCES

9:15 a.m.-9:30 a.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

8:00 a.m.-9:30 a.m.
(continued)

Panel

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-PN06-1.5

Newly-Diagnosed Type 2 Diabetes—What Should Be the Focus of Management in 2024?

(Includes Livestream)

Room: W307

Chair: Ravi Retnakaran, MD, FRCPC

8:00 a.m.-8:15 a.m. *Treat Obesity First!*

Ania M. Jastreboff, MD, PhD

8:15 a.m.-8:30 a.m. *Prevent Future Complications!*

Roopa Mehta, MD, PhD

8:30 a.m.-8:45 a.m. *Achieve Remission!*

Roy Taylor, MD

8:45 a.m.-9:00 a.m. *It's Still about Glucose, Until Proven Otherwise*

David M. Nathan, MD

9:00 a.m.-9:30 a.m. *Panel Discussion*

Panel

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-PN16-1.5

The Role of the Interdisciplinary Team in Technology Onboarding in Primary Care

Room: W415C (Valencia Ballroom)

Chair: Richard M. Bergenstal, MD

8:00 a.m.-8:20 a.m. *Is Primary Care the Best Place for Continuous Glucose Monitoring (CGM) Initiation?*

Eden Miller, DO

8:20 a.m.-8:40 a.m. *What Is the Role of Primary Care Practices in Automated Insulin Delivery?*

Sean Oser, MD, MPH

8:40 a.m.-9:00 a.m. *Diabetes Care and Education Specialists as Technology Champions*

Katelyn O'Brien, PharmD, BCPS, CDCES, BC-ADM

9:00 a.m.-9:20 a.m. *Patient Perspective*

Zachary Jones

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY23-1.5

Navigating the Early Phases of Pediatric Type 1 Diabetes

Room: W315

Chair: Stephen E. Gitelman, MD

8:00 a.m.-8:20 a.m. *Patient Perspective*

Amanda Twigg, MD

8:20 a.m.-8:40 a.m. *Pediatric Type 1 Diabetes Screening Programs*

Anette-Gabriele Ziegler, MD

8:40 a.m.-9:00 a.m. *Continuous Glucose Monitoring (CGM) and Early Stage Type 1 Diabetes*

Andrea Steck, MD

9:00 a.m.-9:20 a.m. *The Economics of Early-Stage Type 1 Diabetes Detection and Treatment*

R. Brett McQueen, PhD

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY27-1.5

ADA Diabetes Care Symposium—The Final Frontier—Implementing the Learning from Implementation Science

Room: W308

Chair: John B. Buse, MD, PhD

8:00 a.m.-8:20 a.m. *Diabetes Prevention—What Do We Know Now That We Didn't Know 20 Years Ago?*

Brian Oldenburg, MPsychol, PhD

8:20 a.m.-8:40 a.m. *Using Telehealth to Improve Diabetes Control in Real-World Practice*

Matthew J. Crowley, MD, MHS

8:40 a.m.-9:00 a.m. *Multifactorial Cardiovascular Risk Reduction—The COORDINATE-Diabetes Implementation Example*

Jennifer B. Green, MD

9:00 a.m.-9:20 a.m. *Commentary and Future Direction*

Nisa M. Maruthur, MD, MHS

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

8:00 a.m.-9:30 a.m.
(continued)

Panel

Theme Area: Epidemiology/Genetics

Session Number: EG-PN05-1.5

Diabetes Genome-Wide Association Study—Why Keep Going?

Room: W207

Chair: Cassandra N. Spracklen, PhD

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| 8:00 a.m.-8:20 a.m. | <i>Type 1 Diabetes Multiancestry Genome-Wide Association Study</i>
Stephen S. Rich, PhD, FAHA |
| 8:20 a.m.-8:40 a.m. | <i>Type 2 Diabetes Global Genetics Initiative</i>
Eleftheria Zeggini, PhD |
| 8:40 a.m.-9:00 a.m. | <i>Type 2 Diabetes Genome-Wide Association Study Cluster Partitioning</i>
Miriam Udler, MD, PhD |
| 9:00 a.m.-9:20 a.m. | <i>Type 2 Diabetes Genome-Wide Association Studies in Underrepresented Populations</i>
Adebawale A. Adeyemo, MD |
| 9:20 a.m.-9:30 a.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-SY06-1.5

Clinical Beta-Cell Replacement Therapy in the Near Future (Includes Livestream)

Room: W414

Chair: Melena Bellin, MD

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| 8:00 a.m.-8:20 a.m. | <i>How to Design the Optimal Beta-Cell Surrogate</i>
Cristina Nostro, PhD |
| 8:20 a.m.-8:40 a.m. | <i>Materials to Prevent Immune Rejection</i>
Alice A. Tomei, PhD |
| 8:40 a.m.-9:00 a.m. | <i>Islet Vascularization</i>
Appakalai N. Balamurugan, PhD |
| 9:00 a.m.-9:20 a.m. | <i>Integration of Tools for Monitoring Therapeutic Success</i>
Katy Digovich |
| 9:20 a.m.-9:30 a.m. | <i>Question and Discussion Period</i> |

SATURDAY, JUNE 22, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY08-1.5

Obesity in United States Hispanic/Latino Populations—Challenges and Strategies

Room: W304 E-H

Chair: Rodolfo J. Galindo, MD

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| 8:00 a.m.-8:20 a.m. | <i>Obesity Inequity among Hispanic/Latino Adults and Children in the United States—Drivers and Implications</i>
Erica G. Soltero, PhD |
| 8:20 a.m.-8:40 a.m. | <i>Metabolic-Dysfunction—Associated Steatotic Liver Disease among Hispanic/Latino Children and Adults</i>
Jeffrey Schwimmer, MD |
| 8:40 a.m.-9:00 a.m. | <i>Tailoring Obesity Treatments to the United States Hispanic/Latino Population—Success and Challenges</i>
Jaime P. Almandoz, MD, MBA, FTOS |
| 9:00 a.m.-9:20 a.m. | <i>Neighborhood Determinants of Health and Policy Changes—Lessons Outside the United States</i>
Carolina Perez-Ferrer, PhD |
| 9:20 a.m.-9:30 a.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY45-1.5

The Efficacy and Safety of Inhaled Insulin Used with Insulin Degludec Compared with Automated Insulin Delivery or Multiple Daily Insulin Injections in Adults with Type 1 Diabetes—Results of the INHALE-3 Randomized Trial (Includes Livestream)

Room: W320 (Chapin Theater)

Chair: Roy W. Beck, MD, PhD

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| 8:00 a.m.-8:10 a.m. | <i>Inhaled Insulin's History and Study Rationale</i>
Halis K. Akturk, MD |
| 8:10 a.m.-8:20 a.m. | <i>Study Methods and Participant Baseline Characteristics</i>
Yogish C. Kudva, MD |
| 8:20 a.m.-8:30 a.m. | <i>Study Results I—Comparison of Inhaled Insulin vs. Rapid-Acting Analogue Insulin in Users of Automated Insulin Delivery or Multiple Daily Insulin Injections during Standardized In-Clinic Meal Challenges</i>
Ruth S. Weinstock, MD, PhD |
| 8:30 a.m.-8:40 a.m. | <i>Study Results II—Primary Efficacy, Safety, and Quality of Life Outcomes</i>
Carol J. Levy, MD, CDCES |
| 8:40 a.m.-8:50 a.m. | <i>Study Results III—Effect of Inhaled Insulin-Degludec Compared with Automated Insulin Delivery and in Subgroups According to Participant Characteristics</i>
Grazia Aleppo, MD, FACE, FACP |
| 8:50 a.m.-9:00 a.m. | <i>Critique of Study Design and Results</i>
Irl B. Hirsch, MD |
| 9:00 a.m.-9:10 a.m. | <i>Use of Inhaled Insulin in Clinical Practice</i>
Thomas Blevins, MD |
| 9:10 a.m.-9:30 a.m. | <i>Question and Discussion Period</i> |

SATURDAY, JUNE 22, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-SY05-1.5

The Good, The Bad, and The Ugly of Lipids in the Beta-Cell Microenvironment

Room: W206

Chair: Marc Prentki, PhD

8:00 a.m.-8:30 a.m. *Lipoproteins-Induced Beta-Cell Impairment and Impact on the Action of Beta-Cell—Derived Exosomes*

Victor García-González, PhD

8:30 a.m.-9:00 a.m. *Glucose Metabolism Primes Lipogenesis in the β -cell Through Epigenomic Signaling*

Matthew Worthman, PhD

9:00 a.m.-9:30 a.m. *Cholesterol Redistribution in Pancreatic Beta-Cells—A Flexible Path to Regulate Insulin Secretion*

Carla Perego, PhD

SATURDAY, JUNE 22, 2024

9:45 a.m.-11:15 a.m.

ADA Chief Executive Officer Remarks *(Includes Livestream)*

Charles Henderson

and

President, Health Care & Education Address *(Includes Livestream)*

Lessons Learned—Diabetes Education for One and All

Patti Urbanski, MEd, RD, LD, CDCES, FADCES

and

Outstanding Educator in Diabetes Award Lecture *(Includes Livestream)*

*Meeting People Where They Are—Improving Diabetes Care and Outcomes through
Education and Collaboration*

Joshua J. Neumiller, PharmD, CDCES, FADCES, FASCP

Room: West Hall B3-4 (General Session)

11:30 a.m.-12:30 p.m.

Professional Interest Group

Theme Area: Acute and Chronic Complications

Session Number: AC-IG02-1

Discussion on Foot Care—Lower Extremity Complications

Room: W206

Chair: Laura Shin, DPM, PhD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-12:20 p.m. *Current Surgical Techniques in Diabetic Foot/Ankle Reconstruction*

Patrick R. Burns, DPM

12:20 p.m.-12:30 p.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Interest Group

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-IG02-1

Discussion on Exercise Physiology—Syncing Up—Exploring the Interplay of Circadian Rhythms and Exercise

Room: W304 A-D

Chair: Melissa Erickson, PhD

11:30 a.m.-11:36 a.m. *Introduction*

11:36 a.m.-11:54 a.m. *Exercise Timing and Metabolic Rhythmicity in Type 2 Diabetes*

Juleen R. Zierath, PhD

11:54 a.m.-12:12 p.m. *Interaction of Circadian System and Physical Activity on Cardiovascular Health*

Jingyi Qian, PhD

12:12 p.m.-12:30 p.m. *Does Timing of Exercise Matter? Time of Day Effects of Physical Activity on Glycemic Outcomes*

Roeland J.W. Middelbeek, MD, MSc

Professional Interest Group

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-IG04-1

Discussion on Nutritional Sciences and Metabolism—The Science of Ultraprocessed Foods and Impacts on Metabolic Diseases

Room: W304 E-H

Chair: Raneer Chatterjee Montgomery, MD, MPH

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:55 a.m. *Challenges and Opportunities of Ultraprocessed Food Research*

Lauren E. O'Connor, PhD

11:55 a.m.-12:15 p.m. *Ultraprocessed Foods and Chronic Disease Across the Lifespan*

William Heerman, MD, MPH

12:15 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-IG05-1

Discussion on Women's Interprofessional Network of the ADA (WIN ADA)—How to Say "No" So You Can Say "Yes"—Optimizing Time Management

Room: W308

Chair: Rebecca L. Scalzo, PhD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:55 a.m. *How to Say "No" So You Can Say "Yes"—Optimizing Time Management*

Linda DiMeglio, MD, MPH

11:55 a.m.-12:15 p.m. *Panel Discussion*

Jane Reusch, MD

Darleen Sandoval, PhD

12:15 p.m.-12:30 p.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Interest Group

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-IG03-1

Discussion on Diabetes in Youth—Perspectives on Universal Antibody Screening

Room: W207

Co-Chairs: Stuart A. Weinzimer, MD and Persis V. Commissariat, PhD, CDCES

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:55 a.m. *Universal Antibody Screening—Pediatric Perspective*
Desmond Schatz, MD

11:55 a.m.-12:15 p.m. *Universal Antibody Screening—Behavioral Medicine Perspective*
Suzanne B. Johnson, PhD

12:15 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-IG05-1

Discussion on Pregnancy and Reproductive Health—Should Continuous Glucose Monitoring Be Used in Pregnancy Complicated by Gestational Diabetes?

Room: W208

Co-Chairs: Camille E. Powe, MD and Greyne O'Malley, MD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:50 a.m. *Continuous Glucose Monitoring Should Be Used Now in Pregnancy Complicated by Gestational Diabetes*
Eleanor M. Scott, BM, BS, MD, FRCP

11:50 a.m.-12:05 p.m. *Continuous Glucose Monitoring Should Not Yet Be Used in Pregnancy Complicated by Gestational Diabetes*
Christina M. Scifres, MD

12:05 p.m.-12:10 p.m. *Rebuttal*
Eleanor M. Scott, BM, BS, MD, FRCP

12:10 p.m.-12:15 p.m. *Rebuttal*
Christina M. Scifres, MD

12:15 p.m.-12:30 p.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Interest Group

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-IG01-1

Discussion on Islet Biology, Development, and Function—Right on Target—Strategies to Selectively Regenerate and Protect Beta Cells

Room: W311

Chair: Jeffrey S. Tessem, PhD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:50 a.m. *Islet Cell Targeting Using a ZnT8 Ab for Beta-Cell Mass Imaging and Regeneration*

Dax Fu, PhD

11:50 a.m.-12:05 p.m. *Nanoparticle Targeting of the Beta Cell*

Nikki L. Farnsworth, PhD

12:05 p.m.-12:20 p.m. *Zinc Targeting of the Beta Cell*

Wen-Hong Li, PhD

12:20 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Development

Theme Area: Professional Development

Session Number: PD-01-1

Creating Talks That Are Talked About—How to Bring Memorability to Your Presentation(s)
(Includes Livestream)

Room: W307

Chair: TBD

11:30 a.m.-12:30 p.m. *Creating Talks That Are Talked About—How to Bring Memorability To Your Presentation(s)*

Kari Goetz, BFA, MA

SATURDAY, JUNE 22, 2024

11:30 a.m.-12:30 p.m.
(continued)

ePoster Theater

Theme Area: Acute and Chronic Complications

Session Number: ePoster01

(*) Diabetic Kidney Disease—From Genetic Pathways to Social Determinants

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Laura Pyle, PhD

(*) Continuing Education Credit Is Not Awarded for this Session.

11:30 a.m.-11:40 a.m.

- 396-P Consequences of Knockout of the Histone Demethylase KDM6B from Myeloid Cells Are Context Dependent in Diabetic Kidney Disease**
Presenting Author: Lisa Y. Q. Hong, BSc

11:40 a.m.-11:50 a.m.

- 397-P The C/EBP β -XOR Axis and Genetic Risk for Diabetic Kidney Disease**
Presenting Author: Ilse S. Daehn, PhD

11:50 a.m.-12:00 p.m.

- 398-P Dissecting Adiponectin Receptor Expression in Renal Vasculature and Its Correlation with Insulin Sensitivity in Type 1 Diabetes**
Presenting Author: Kalie L. Tommerdahl, MD

12:00 p.m.-12:10 p.m.

- 399-P Association of Social Determinants of Health with Initiation of Novel Glucose-Lowering Drugs in Patients with Diabetes—A Post Hoc Analysis of the Kidney-CHAMP Trial**
Presenting Author: Mitra Mosslemi, MSc

12:10 p.m.-12:20 p.m.

- 400-P KidneyIntelX Impact on ADA DKD Prevention Model Metrics**
Presenting Author: Steven Coca, DO, MS

SATURDAY, JUNE 22, 2024

11:30 a.m.-12:30 p.m.
(continued)

ePoster Theater

Theme Area: Epidemiology/Genetics

Session Number: ePoster02

(*) Diabetes and CVD—Heartbreak in Motion

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Janet K. Snell-Bergeon, PhD, MPH

(*) Continuing Education Credit Is Not Awarded for this Session.

11:30 a.m.-11:40 a.m.

- 1266-P The Risk of Major CV Events after Initiation of SGLT2i, GLP-1RA, DPP-4i, or SUs in Patients with Type 2 Diabetes and Low-to-Moderate CV Risk**
Presenting Author: Elisabetta Patorno, MD, DrPH

11:40 a.m.-11:50 a.m.

- 1366-P Cardiovascular Complications (Myocardial Infarction, Stroke, and End-Stage Renal Disease) and Mortality in Youth-Onset Type 1 and Type 2 Diabetes Based on National Health Insurance Service (NHIS) Data**
Presenting Author: Sungeun Kim, Doctor

11:50 a.m.-12:00 p.m.

- 1376-P Association of Lung Function and Glycemic Control with All-Cause and Cardiovascular Mortality in Persons with Type 2 Diabetes**
Presenting Author: Chia-Ing Li, PhD

- 1377-P WITHDRAWN**

12:10 p.m.-12:20 p.m.

- 1437-P Blood Pressure (BP) Trajectories and 32-Year Cardiovascular Disease (CVD) Incidence in Women and Men with Type 1 Diabetes (T1D)**
Presenting Author: Rachel G. Miller, PhD

SATURDAY, JUNE 22, 2024

12:30 p.m.-1:30 p.m.

ePoster Theater

Theme Area: Clinical Diabetes/Therapeutics

Session Number: ePoster03

(*) Insights into the Treatment, Mechanistic Underpinnings, and Determinants of Outcomes in Pregnancies Complicated by Diabetes

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Samantha F. Ehrlich, PhD, MPH

() Continuing Education Credit Is Not Awarded for this Session.*

12:30 p.m.-12:40 p.m.

1213-P The Effect of Bile Acid-RNA Methylation on Intergenerational Inheritance of Diabetes Mellitus by Microbiota Vertical Transmission

Presenting Author: Qinyuan Xie, PhD

12:40 p.m.-12:50 p.m.

1214-P Prepregnancy Use of Glucagon-Like Peptide 1 Receptor Agonists and Gestational Weight Gain in Type 2 Diabetes

Presenting Author: Jacqueline Maya, MD

12:50 p.m.-1:00 p.m.

1215-P Maternal Glycemia Associations with Cord Blood DNA Methylation in the Hyperglycemia and Adverse Pregnancy Outcome Study

Presenting Author: Monica E. Bianco, MD

1:00 p.m.-1:10 p.m.

1216-P Maternal Obesity and Human Milk Metabolomics—Unraveling the Link to Infant Obesity Risk

Presenting Author: Lewis DeCicco, BS

1:10 p.m.-1:20 p.m.

1217-P Insulin Sensitivity and Insulin Secretion Differentially Affect Birthweight and Postpartum Glucose

Presenting Author: Emily A. Rosenberg, MD

SATURDAY, JUNE 22, 2024

12:30 p.m.-1:30 p.m.
(continued)

ePoster Theater

Theme Area: Clinical Diabetes/Therapeutics

Session Number: ePoster04

(*) Pediatric Research Update—Type 1 Diabetes, Type 2 Diabetes, Obesity

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Sarah A. MacLeish, DO

(*) Continuing Education Credit Is Not Awarded for this Session.

- 12:30 p.m.-12:40 p.m.
- 1161-P **Are There Sex Differences in Response to Metabolic/Bariatric Surgery among Adolescents with Severe Obesity?**
Presenting Author: Subin Jang, MPH
- 12:40 p.m.-12:50 p.m.
- 1162-P **Global Burden Attributable to High Body Mass Index in Young Adults from 1990 to 2019, with Projections to 2050**
Presenting Author: Jingxuan Wang, BS
- 12:50 p.m.-1:00 p.m.
- 1163-P **Type 2 Diabetes Remission Persists Ten Years after Adolescent Metabolic and Bariatric Surgery**
Presenting Author: Stephanie Sisley, MD
- 1:00 p.m.-1:10 p.m.
- 1164-P **Effect of Metformin on Gut Microbial Metabolites in Overweight and Obese Youth with Type 1 Diabetes (T1D)**
Presenting Author: Elizabeth R. Flammer, MS
- 1:10 p.m.-1:20 p.m.
- 1165-P **Untangling the Interactions of Glycemic Control and Obesity on Hypothalamic Gliosis in Youth with Type 1 Diabetes**
Presenting Author: Alyssa Huang, MD

SATURDAY, JUNE 22, 2024

12:30 p.m.-1:30 p.m.

Session Break

(Take this opportunity to visit the Exhibit and Poster Halls)

1:30 p.m.-3:00 p.m.

Debate

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-DB15-1.5

Innovation or Access in Diabetes Technology—What Should Be Our Global Priority?

Room: W415C (Valencia Ballroom)

Chair: David M. Maahs, MD, PhD

- | | |
|---------------------|--|
| 1:30 p.m.-1:50 p.m. | <i>Access Should Be Our Top Priority!</i>
Apoorva Gomber, MBBS, MD, MPH |
| 1:50 p.m.-2:10 p.m. | <i>Innovation Should Be Our Top Priority!</i>
Rayhan Lal, MD |
| 2:10 p.m.-2:25 p.m. | <i>Rebuttal</i>
Apoorva Gomber, MBBS, MD, MPH |
| 2:25 p.m.-2:40 p.m. | <i>Rebuttal</i>
Rayhan Lal, MD |
| 2:40 p.m.-3:00 p.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY30-1.5

ADA Primary Care Council—What Does a Person with Diabetes Need from Their Primary Care Team? (Includes Livestream)

Room: W320 (Chapin Theater)

Chair: Kevin A. Peterson, MD, MPH

- | | |
|---------------------|--|
| 1:30 p.m.-3:00 p.m. | <i>Team-Based Care</i>
Sarah Candler, MD, MPH, FACP
Andrea Haynes, MD
Cara Orr, MS, MMS, PA-C
Kimberly D. Broughton-Miller, DNP, APRN, FNP-C, ENP-C, FAANP
Greg Cohen, DO, FCOFP
Pamela Stamm, PharmD, BCPS, BCACP, CDCES, FASHP, FACC
Benjamin M. Bluml, RPh |
|---------------------|--|

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Symposium

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-SY03-1.5

Channeling Mechanisms Underlying Islet Function and Dysfunction *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Chair: Show-Ling Shyng, PhD

1:30 p.m.-2:00 p.m. *Impact of Intracellular Calcium Flux on Beta-Cell Insulin Secretion*

Marjan Slak Rupnik, PhD

2:00 p.m.-2:30 p.m. *Channeling Euglycemia—TALK-1 Channel Modulation of Islet Hormone Secretion and Glucose Homeostasis*

David Jacobson, PhD

2:30 p.m.-3:00 p.m. *Impacts of Swell Channels on Insulin Secretion*

Rajan Sah, MD, PhD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR02-1.5

Cell and Molecular Approaches to Diabetes-Related Foot Complications (With Roger Pecoraro Award Lecture) (Includes Livestream)

Room: W307

Chair: Tyler Lawrence Coye, DPM

1:30 p.m.-2:00 p.m.
Roger Pecoraro Award Lecture

Roger Pecoraro Award Lecture 2024

Frances L. Game, BSc, MBBCh (Hons), MRCP(UK), MRCPPath, FRCP

2:00 p.m.-2:15 p.m.

170-OR Case-Control Study on Whole-Methylome Analysis of Monocytes in Acute Diabetic Charcot Foot—Identifying Differentially Methylated Genes
Presenting Author: Naween Kumar, MD

2:15 p.m.-2:30 p.m.

171-OR Tissue Nanotransfection-Based Endothelial-Targeted Epigenetic Gene Editing In Vivo to Rescue Diabetic Ischemic Wounds
Presenting Author: Kanhaiya Singh, PhD

2:30 p.m.-2:45 p.m.

172-OR Lineage Tracing of Vasculogenic Fibroblasts In Vivo and Their Significance in the Rescue of Diabetic Ischemic Tissue
Presenting Author: Kanhaiya Singh, PhD

2:45 p.m.-3:00 p.m.

173-OR A Clinical Study of Novel Antimicrobial Peptide PL-5 Topical Spray for Mild to Moderate Infectious Wounds of Diabetic Foot
Presenting Author: Li Qian, MD, PhD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR03-1.5

Hypoglycemia in the Real World—Who's Really at Risk?

Room: W208

Chair: Michael Bancks, PhD, MPH

1:30 p.m.-1:45 p.m.

174-OR Genetic Variation in GLP-1R Modify the Risk of Hypoglycemia in Response to Intensive Glycemic Control in Adults with Type 2 Diabetes

Presenting Author: Qiaochu Xue, PhD, MPH

1:45 p.m.-2:00 p.m.

175-OR Level 3 Hypoglycemia in Diabetes—An Age-Old but Not (Just) Old-Age Problem (iNPHORM, USA)

Presenting Author: Alexandria Ratzi-Leewing, PhD

2:00 p.m.-2:15 p.m.

176-OR Association between Clustering of Hypoglycemic Symptoms, Psychological Traits, and Problem-Solving Abilities in Adults with Type 1 Diabetes

Presenting Author: Naoki Sakane, MD, PhD

2:15 p.m.-2:30 p.m.

177-OR Time Below Range (TBR) and Its Link to Impaired Awareness of Hypoglycemia (IAH) and Severe Hypoglycemia (SH)—Evidence from the Association of British Clinical Diabetologists (ABCD) Study

Presenting Author: Harshal Deshmukh, MBBB, MPH, MRCP, PhD, CCT

2:30 p.m.-2:45 p.m.

178-OR Assessing Hypoglycemia Awareness—Validating HypoA-Q within the T1D Exchange Registry

Presenting Author: Yu Kei Lin, MD

2:45 p.m.-3:00 p.m.

179-OR Assessing the Impact of Hypoglycemia among People with Diabetes in the U.S. and EU

Presenting Author: Alan Beltran, Bachelor's Degree

SATURDAY, JUNE 22, 2024

1:30 p.m.–3:00 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR08-1.5

Clinical Biomarkers of ASCVD Risk Progression in Diabetes Mellitus and Metabolic Disease

Room: W308

Chair: Om Ganda, MD

1:30 p.m.–1:45 p.m.

180-OR Glycemic Markers Are Differentially Associated with Cardiovascular Imaging and Outcomes in Long-Duration Type 1 Diabetes

Presenting Author: Marc Gregory Yu, MD

1:45 p.m.–2:00 p.m.

181-OR Declining eGFR over Time Predicts the Risk of a Composite of Primary or Secondary Major Adverse Cardiovascular Events or Heart Failure Hospitalization, in People with Type 2 Diabetes—EXSCEL Post Hoc analysis

Presenting Author: Abderrahim Oulhaj, PhD

2:00 p.m.–2:15 p.m.

182-OR The Triglyceride–Glucose Index and the Presence of Coronary Artery Disease are Mutually Independent Predictors for the Development of Type 2 Diabetes Mellitus

Presenting Author: Alexander Vonbank, Doz. Dr.

2:15 p.m.–2:30 p.m.

183-OR Risk Factors for Combined Severe Diabetic Complications (CSDC) in Patients with Type 2 Diabetes Mellitus (T2DM)

Presenting Author: Tanaka Nanako, Bachelor's Degree

2:30 p.m.–2:45 p.m.

184-OR Association between Composite Dietary Antioxidant Index and Stroke among U.S. Adults with Diabetes—Insights from NHANES

Presenting Author: Hongqiang Zhang, Master's Degree

2:45 p.m.–3:00 p.m.

185-OR The Role of Optical Coherent Tomography in the Estimation of Cardiovascular Risk in Asymptomatic Patients with Type 1 Diabetes

Presenting Author: Michal Dubsky, MD, PhD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR01-1.5

Social Drivers of Health and Advancement towards Social Justice

Room: W314

Chair: Persis V. Commissariat, PhD, CDCES

1:30 p.m.-1:45 p.m.

186-OR Longitudinal Effect of Diabetes Fatalism on Clinical Outcomes and QOL in AA with Type 2 Diabetes Mellitus

Presenting Author: Sandra C. Iregbu, PhD

1:45 p.m.-2:00 p.m.

187-OR Pathway between Race, Historic and Contemporary Measures of Structural Racism, and Prevalence of Diabetes in the U.S.

Presenting Author: Leonard E. Egede, MD, MS

2:00 p.m.-2:15 p.m.

188-OR Association of Social Determinants of Health with Efficacy of Metabolic Bariatric Surgery (MBS) vs. Medical Therapy (MT) for Type 2 Diabetes

Presenting Author: Mary-Elizabeth Patti, MD

2:15 p.m.-2:30 p.m.

189-OR Food Insecurity and Inability to Obtain Recommended Medications, Diabetes Technology, and Multidisciplinary Services in Youth and Young Adults with Diabetes

Presenting Author: Angela D. Liese, PhD, MPH, FACE, FAHA

2:30 p.m.-2:45 p.m.

190-OR Development and Validation of a Social Risk Screening Tool for Adults with Type 2 Diabetes

Presenting Author: Joni S. Williams, MD, MPH

2:45 p.m.-3:00 p.m.

191-OR WITHDRAWN

SATURDAY, JUNE 22, 2024

1:30 p.m.–3:00 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR02-1.5

Using Teams and Technology to Improve Outcomes

Room: W315

Chair: Peter Rossing, MD, DMSc

1:30 p.m.–1:45 p.m.

- 192-OR Effect of Video Conferences between Endocrinologists and Family Doctors on Levels of Recommended Medication among Persons with Type 2 Diabetes—Pragmatic RCT**

Presenting Author: Thim Prætorius, PhD

1:45 p.m.–2:00 p.m.

- 193-OR Virtual Diabetes Optimization Program vs. Standard Endocrine Care for Veterans with Uncontrolled Diabetes**

Presenting Author: Thomas Adel, BS

2:00 p.m.–2:15 p.m.

- 194-OR Improved Linkage to the Health System and Better Diabetes Control Due to Community-Based m-Health-Enabled Screening and Follow-up in India**

Presenting Author: Sailesh Mohan, MD, MPH, PhD

2:15 p.m.–2:30 p.m.

- 195-OR Efficacy and Feasibility of a Telemedicine Program for Institutionalized Elderly People with Insulin-Treated Diabetes Using Continuous Glucose Monitoring and a Connected Insulin Pen Cap—The Trescasas Study**

Presenting Author: Fernando Gomez-Peralta, PhD, MD

2:30 p.m.–2:45 p.m.

- 196-OR A Scalable Application of Artificial Intelligence (AI) to Transform Type 2 Diabetes Management in Clinical Practice**

Presenting Author: Mark L. Warren, MD

2:45 p.m.–3:00 p.m.

- 197-OR Algorithmic Identification May Improve Racial and Ethnic Diversity of Clinical Study Recruitment**

Presenting Author: Sara Jane Cromer, MD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR05-1.5

Novel Insights into Pathophysiology, Diagnosis, and Outcomes in GDM

Room: W311

Chair: Mary R. Loeken, PhD, MS

1:30 p.m.-1:45 p.m.

198-OR Should We Improve or Replace the Antenatal Oral Glucose Tolerance Test for Diagnosis of Gestational Diabetes?

Presenting Author: Laura C. Kusinski, PhD, BSc (Hons)

1:45 p.m.-2:00 p.m.

199-OR Beta-Cell IRS1 Deficiency Predisposes Female Mice to Developing Gestational Diabetes

Presenting Author: Taofeek Usman, PhD

2:00 p.m.-2:15 p.m.

200-OR Postpartum Islet-Cell Function in Individuals With and Without Gestational Diabetes

Presenting Author: Aoife M. Egan, MB, BCh, BAO

2:15 p.m.-2:30 p.m.

201-OR Fasting and Postprandial Triglycerides in Early Pregnancy Correlate with Mean Glucose and Time-in-Range by CGM at 28 Weeks of Gestation

Presenting Author: Linda A. Barbour, MD, MSPH, FACP

2:30 p.m.-2:45 p.m.

202-OR Prediction of Late Gestational Diabetes Mellitus in Those without Early GDM

Presenting Author: David Simmons, MA, MBBS, FRACP, FRCP, MD

2:45 p.m.-3:00 p.m.

203-OR Metabolic and Clinical Outcomes with One Abnormal Value on Carpenter Coustan Criteria

Presenting Author: Christina M. Scifres, MD

SATURDAY, JUNE 22, 2024

1:30 p.m.–3:00 p.m.
(continued)

Oral Presentations

Theme Area: Epidemiology/Genetics

Session Number: EG-OR02-1.5

The Safety Net Unraveled—Social and Geographical Factors in Diabetes Disparities

Room: W206

Chair: Jessica L. Harding, PhD

1:30 p.m.–1:45 p.m.

204-OR Social Vulnerability, Rurality, and Prevalence of Obesity and Inactivity in U.S. Counties, 2004–2019

Presenting Author: Ben T. Varghese, MBBS, MSc

1:45 p.m.–2:00 p.m.

205-OR Association of Geographic Factors with Use of Metabolic Disease Specialty Care among Adults with Type 2 Diabetes and ASCVD

Presenting Author: Jessica Bauer, MD

2:00 p.m.–2:15 p.m.

206-OR Assessing Connection to Outpatient Care among Patients Screening Positive for Previously Undiagnosed Diabetes in the Emergency Department

Presenting Author: Vidhyasai Annem, BSA

2:15 p.m.–2:30 p.m.

207-OR Food Insecurity Patterns and Mental Health among Youth and Young Adults with Diabetes

Presenting Author: Ali M. Alfalki, MPH

2:30 p.m.–2:45 p.m.

208-OR Impact of Carbohydrate-Restricted Nutrition Therapy and Continuous Remote Care among People with Type 2 Diabetes in Rural vs. Urban Areas

Presenting Author: Shaminie J. Athinarayanan, PhD

2:45 p.m.–3:00 p.m.

209-OR Direct and Indirect Effects of Redlining on Diabetes Prevalence via Food Access

Presenting Author: Rebekah J. Walker, PhD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Epidemiology/Genetics

Session Number: EG-OR04-1.5

Type 2 Diabetes and Related Trait GWAS Variant Effects through Omics Profiles (With ADA Presidents' Select Abstract Presentation)

Room: W207

Chair: Adelaide Tovar, PhD

1:30 p.m.-1:45 p.m.

210-OR ADA Presidents' Select Abstract: Discovering Stimulatory State-Specific Type 2 Diabetes GWAS Mechanisms with Single-Cell Multiomics on iPSC-Derived Fibro-adipogenic Progenitor Cell Villages

Presenting Author: Christa Ventresca, PhD Candidate

1:45 p.m.-2:00 p.m.

211-OR Massively Parallel Characterization of Thousands of Type 2 Diabetes-Associated Variants in Multiple Cell Types Nominates Candidate Causal Regulatory Alleles and Mechanisms

Presenting Author: Madhav Kothari, MS

2:00 p.m.-2:15 p.m.

212-OR Differential Cell-Type-Specific Gene Expression and Chromatin Accessibility by Type 2 Diabetes Status and Physical Activity Levels in Human Skeletal Muscle

Presenting Author: Dan Ciotlos, Master's Degree

2:15 p.m.-2:30 p.m.

213-OR Widespread Age-Associated Changes in the Chromatin Architecture of Skeletal Muscle Cell Types

Presenting Author: Keagan G. Moo, BS

2:30 p.m.-2:45 p.m.

214-OR Human Genetic Study of Triglyceride to HDL-C Ratio Adjusted for BMI Identifies New Insulin Resistance-Associated Loci, Genes, Pathways, and Disease Subtypes

Presenting Author: Antonino Oliveri, PhD

2:45 p.m.-3:00 p.m.

215-OR Polygenic Scores for Metabolic Diseases Are Associated with Gene Expression Networks across Tissues

Presenting Author: Christopher Bryan, BS

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-OR02-1.5

Novel Regulators of Insulin Action and Insulin Sensitivity *(Includes Livestream)*

Room: W414

Chair: Terry Unterman, MD

1:30 p.m.-1:45 p.m.

216-OR CREG1 Promotes Insulin Receptor Recycling to Enhance Insulin Signaling in Hepatocytes

Presenting Author: Yechaan Joo, BS, MPH

1:45 p.m.-2:00 p.m.

217-OR Depalmitoylation Inhibition Improves Glucose Tolerance by Promoting Endothelial Insulin Transcytosis

Presenting Author: Wei Zhang, PhD

2:00 p.m.-2:15 p.m.

218-OR Disrupted Circadian Glucocorticoid Rhythms and High-Fat Diet Drive Obesity and Insulin Resistance through Distinct Mechanisms

Presenting Author: Mary Teruel, PhD

2:15 p.m.-2:30 p.m.

219-OR Loss of Insulin Signaling in Microglia Impairs Cellular Uptake of A β and Neuroinflammatory Response Exacerbating Alzheimer-Like Neuropathology

Presenting Author: Wenqiang Chen, PhD

2:30 p.m.-2:45 p.m.

220-OR Reduced Apolipoprotein C-I Truncation Is Associated with Worsening of Insulin Resistance and Risk of Diabetes in Persons with Impaired Glucose Tolerance

Presenting Author: Juraj Koska, MD, PhD

2:45 p.m.-3:00 p.m.

221-OR Skeletal Muscle Insulin Resistance—The Rate-Limiting Step in Humans Is at the Level of the Vasculature

Presenting Author: Daniël van Raalte, MD, PhD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-OR05-1.5

The “Barrier Reef”—Overcoming Hurdles to Beta-Cell Replacement Therapies

Room: W304 A-D

Chair: Clayton E. Mathews, PhD

1:30 p.m.-1:45 p.m.

222-OR Overcoming Islet Scarcity through In Vitro Differentiation of Human Pluripotent Stem Cells

Presenting Author: Jeffrey R. Millman, PhD

1:45 p.m.-2:00 p.m.

223-OR Characterization of Regenerative Adult Islet Progenitor Cells from Human Pancreatic Tissue

Presenting Author: Jayachandra Kuncha, PhD

2:00 p.m.-2:15 p.m.

224-OR Effect of PD-L1 Overexpression on Autoreactive T-Cell Responses toward Stem Cell-Derived Beta Cells

Presenting Author: Jessie Barra, PhD

2:15 p.m.-2:30 p.m.

225-OR Sequential Islet Transplants for Type 1 Diabetes Do Not Cumulatively Increase Hepatic Portal Venous Pressure

Presenting Author: Alice L. J. Carr, PhD, MSci

2:30 p.m.-2:45 p.m.

226-OR Immunoprivileged Hydrogels Recover Normoglycemia for Extended Duration in Immunocompetent Diabetic Animals

Presenting Author: Harald Stover, PhD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

ePoster Theater

Theme Area: Clinical Diabetes/Therapeutics

Session Number: ePoster05

(*) Learning Across Diabetes

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Lawrence A. Leiter, MD, FRCPC, FACP, FACE, FAHA, FACC

(*) Continuing Education Credit Is Not Awarded for this Session.

- 1:30 p.m.-1:40 p.m.
- 846-P ALP001E, a Novel Glucagon Receptor Antagonist (GRA), Improves Insulin Resistance, Glycemic Control, and β -Cell Function in Type 2 Diabetes (T2D)**
Presenting Author: Cheng-Ho Chung, MD, PhD
- 1:40 p.m.-1:50 p.m.
- 733-P Efficacy and Safety of HS-20094 in Patients with Type 2 Diabetes—A Randomized, Double-Blind, Placebo-Controlled, Phase 2 Trial**
Presenting Author: Lin Liu, PhD
- 1:50 p.m.-2:00 p.m.
- 734-P Use of GLP-1 Agonists and Perioperative Complications in Patients Undergoing Elective Surgery**
Presenting Author: Carlos E. Mendez, MD, FACP
- 2:00 p.m.-2:10 p.m.
- 735-P Association between Glucagon-Like Peptide 1 Receptor Agonists and Risk of Depression in U.S. Older Adults with Type 2 Diabetes—A Population-Based Cohort Study**
Presenting Author: Ying Lu, BA
- 2:10 p.m.-2:20 p.m.
- 843-P Multinational Analysis of Factors Associated with Missed Bolus Insulin Injections Using Smart Pen Data**
Presenting Author: Francisco Javier Ampudia Blasco, MD, PhD
- 2:20 p.m.-2:30 p.m.
- 844-P Insulin-Like Growth Factor Binding Protein 3 Levels Modulate the Glucose Lowering Effect of Intensive Lifestyle Intervention for Weight Loss in Type 2 Diabetes**
Presenting Author: Wendy L. Bennett, MD
- 2:30 p.m.-2:40 p.m.
- 845-P The Menin Inhibitor Ziftomenib Induces Insulin Production and Improves Insulin Sensitivity in a Rat Model of Type 2 Diabetes Mellitus (T2DM)**
Presenting Author: Asako McCloskey, PhD

(continued on next page)

84th SCIENTIFIC SESSIONS PROGRAM

2:40 p.m.-2:50 p.m.

909-P Impact of SGLT2 Inhibition on Glucosuria in HNF1A-MODY
Presenting Author: Henrik Maagensen, MD

SATURDAY, JUNE 22, 2024

1:30 p.m.-3:00 p.m.
(continued)

ePoster Theater

Theme Area: Acute and Chronic Complications

Session Number: ePoster06

(*) From Macrovascular to Microvascular

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Carol H. Wysham, MD

() Continuing Education Credit Is Not Awarded for this Session.*

1:30 p.m.-1:40 p.m.

1791-LB Metabolic Syndrome (MS) as a Risk Factor for Myocardial Infarction (MI), Coronary Heart Disease (CHD), Stroke, and Peripheral Artery Disease (PAD) in 41,215 People with Type 1 Diabetes (PwT1D)

Presenting Author: Jochen Seufert, MD, PhD, FRCPE

1:40 p.m.-1:50 p.m.

1799-LB Identification of Proteomics Signature for Vascular Complications in Type 2 Diabetes

Presenting Author: Andrzej S. Januszewski, MD, PhD

1:50 p.m.-2:00 p.m.

1932-LB Elevation of Endogenous Glucose Production in Persons with Dysglycemia and Impaired Cardiac Function upon Myocardial Infarction

Presenting Author: Clara Möser

2:00 p.m.-2:10 p.m.

1937-LB Coordinated Approach to Improve Quality of Care and Address Disparities in Patients with Cardiometabolic Disease—Analysis from the Cardiometabolic Center Alliance Registry

Presenting Author: Mikhail N. Kosiborod, MD

2:10 p.m.-2:20 p.m.

1958-LB Overnight Glycemia's Relevance to Insulin Resistance (IR) in Type 1 Diabetes (T1D)

Presenting Author: Kristen J. Nadeau, MD, MS

2:20 p.m.-2:30 p.m.

1995-LB Prevalence, Risk Factors, and Clinical Characteristics of NAFLD in Individuals with Type 1 Diabetes Mellitus

Presenting Author: Weiwei Jiang

(continued on next page)

84th SCIENTIFIC SESSIONS PROGRAM

2:30 p.m.-2:40 p.m.

1811-LB Improvement in Diabetic Retinopathy and Achieving Remission of Type 2 Diabetes Mellitus through Digital Twin Technology—A One-Year Intervention Study

Presenting Author: Shashank Joshi, DM

2:40 p.m.-2:50 p.m.

1817-LB Association between the Neutrophil Percentage-to-Albumin Ratio and Mortality in Patients with Diabetic Foot Ulcer

Presenting Author: Hong Zhu

SATURDAY, JUNE 22, 2024

3:15 p.m.-4:15 p.m.

Panel

Theme Area: Acute and Chronic Complications

Session Number: AC-PN03-1

From the Cutting Room Floor—Semi-live Surgery for Healing Diabetic Foot Ulcers for the Referring Practitioner

Room: W206

Chair: Ryan T. Crews, PhD, CCRP

3:15 p.m.-3:40 p.m. *After the Referral—Watch How Podiatrists Surgically Treat Foot Ulcers*
Haywan Chiu, DPM

3:40 p.m.-4:05 p.m. *Kidney-Friendly Vascular Surgery Interventions for Diabetic Peripheral Arterial Disease*
Michael Siah, MD

4:05 p.m.-4:15 p.m. *Question and Discussion Period*

Panel

Theme Area: Acute and Chronic Complications

Session Number: AC-PN08-1

Beyond Statins—Treating and Evaluating Residual Atherosclerotic Cardiovascular Disease Risk

Room: W207

Chair: Chiadi E. Ndumele, MD, PhD

Alternate Chair: Carlos A. Alvarez, PharmD, MSc, MSCS, BCPS

3:15 p.m.-3:25 p.m. *New Lipid-Lowering Pharmacotherapies in Diabetes*
Erin Michos, MD, MHS

3:25 p.m.-3:35 p.m. *Lp(a) Therapeutics—Are We There Yet?*
Marlys Koschinsky, PhD

3:35 p.m.-3:45 p.m. *Advanced Diagnostic Imaging—Is Your Lipid Therapy Good Enough?*
Yasmin S. Hamirani, MD

3:45 p.m.-4:15 p.m. Panel Discussion

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY02-1

Diabetic Retinopathy Care and Screening—Is Artificial Intelligence Changing the Future?

Room: W208

Chair: Paolo S. Silva, MD

3:15 p.m.-3:30 p.m. *Overview of DRCR Retina Network Studies and Standards of Diabetes Eye Care*
Mohamed Elmasry, MD, PhD

3:30 p.m.-3:45 p.m. *Emerging Treatment Strategies for Diabetic Retinopathy*
Thomas W. Gardner, MD, MS

3:45 p.m.-4:00 p.m. *Artificial Intelligence and Novel Retinal Imaging in Diabetic Retinopathy Screening*
Aaron Y. Lee, MD, MSCI

4:00 p.m.-4:15 p.m. *Leveraging Diabetic Retinopathy Screening Programs in Clinical Trials*
David Preiss, MBChB, MRCP, FRCPATH, PhD

SATURDAY, JUNE 22, 2024

3:15 p.m.-4:15 p.m.
(continued)

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY14-1

The Many Faces of Kidney Disease in Diabetes—Not All Are Diabetic Nephropathy *(Includes Livestream)*

Room: W307

Chair: Ashish Verma, MB, BS

3:15 p.m.-3:35 p.m. *Acute Kidney Injury and Its Long-Term Consequences in Diabetes*

Andrew Advani, BSc, MBChB(Hons), PhD, FRCP(UK), FRCP(Edin), FASN

3:35 p.m.-3:55 p.m. *The Vascular Crossroads—Hypertension and Vascular Disease in Diabetic Kidney Disease Progression*

Jeffrey B. Hodgins, MD, PhD

3:55 p.m.-4:15 p.m. *Decoding Diabetic Kidney Disease—Molecular Subtypes and the Future of Nosology*

Timothy Sutton, MD

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY16-1

Updates in Autonomic Neuropathy

Room: W308

Chair: Andrew J.M. Boulton, MD, DSc (Hon), FACP, FICP, FRCP

3:15 p.m.-3:35 p.m. *Autonomic Dysfunction—Challenging Clinical Scenarios*

Christian S. Hansen, MD, PhD

3:35 p.m.-3:55 p.m. *Gastroparesis—Myths and Facts*

Karen L. Jones, Dipp App Sc (Nuclear Medicine), PhD

3:55 p.m.-4:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY06-1

Optimizing Outcomes of GLP-1+/GIP Receptor Agonists—How to Help Patients Succeed

Room: W315

Chair: Ka Hei Karen Lau, MS, RDN, LDN, CDCES

3:15 p.m.-3:45 p.m. *Is Weight Loss Everything? Nutrition and Lifestyle Are Missing Puzzle Pieces*

Colleen Dawkins, FNP-C, RDN, CSOWM

3:45 p.m.-4:15 p.m. *Protocol in Practice—Standing Orders for RD/RN Management of GLP-1/GIP Receptor Agonists*

Maureen Chomko, RD, CDCES

SATURDAY, JUNE 22, 2024

3:15 p.m.-4:15 p.m.
(continued)

Debate

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-DB18-1

Diabetes Prevention Program (DPP) vs. GLP-1RA—Which Tool Is Best to Battle the Obesity and Diabetes Epidemics?

Room: W304 E-H

Chair: Amisha Wallia, MD, MS

3:15 p.m.-3:35 p.m. *The Diabetes Prevention Program Is the Best Tool to Battle Prediabetes and Obesity (NDPP)*

David G. Marrero, PhD

3:35 p.m.-3:55 p.m. *GLP-1RAs Are the Best Tools to Battle Prediabetes and Obesity*

Ildiko Lingvay, MD, MPH, MSCS

3:55 p.m.-4:00 p.m. *Rebuttal*

David G. Marrero, PhD

4:00 p.m.-4:05 p.m. *Rebuttal*

Ildiko Lingvay, MD, MPH, MSCS

4:05 p.m.-4:15 p.m. *Question and Discussion Period*

Panel

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-PN11-1

GLP-1 +/- GIP Receptor Agonists in the Perioperative Setting—To Stop or Not to Stop?

Room: W415C (Valencia Ballroom)

Chair: Leigh Perreault, MD, FACE, FACP

3:15 p.m.-3:30 p.m. *Anesthesia Perspective*

Girish P. Joshi, MBBS, MD, FFARCSI

3:30 p.m.-3:45 p.m. *Gastroenterology Perspective*

Jana G. Al Hashash, MD, MSc, FACP, AGAF

3:45 p.m.-4:00 p.m. *Endocrinology Perspective*

Sue D. Pedersen, MD, FRCPC C-ENDO, DABOM

4:00 p.m.-4:15 p.m. *Panel Discussion*

Panel

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-PN19-1

Health Care Policy and Diabetes—How to Improve Population Health from Multiple Perspectives

(Includes Livestream)

Room: W320 (Chapin Theater)

Chair: Elbert Huang, MD, MPH, FACP

3:15 p.m.-4:15 p.m. *Health Care Policy and Diabetes—How to Improve Population Health from Multiple Perspectives*

Neda Laiterrapong, MD, MS, FACP

Irl B. Hirsch, MD

Mohammed K. Ali, MD, MSc, MBA

Keri J. Whitaker, RN

Aaron Winn, PhD

SATURDAY, JUNE 22, 2024

3:15 p.m.-4:15 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY13-1

How I Feel Matters, Too—The Psychosocial Aspects of Automated Insulin Delivery (*Includes Livestream*)

Room: W415B (Valencia Ballroom)

Chair: William H. Polonsky, PhD, CDCES

3:15 p.m.-3:45 p.m. *It's Still a Lot of Work—Mitigating Diabetes Technology Burnout*
Jill Weissberg-Benchell, PhD, CDCES

3:45 p.m.-4:15 p.m. *Psychosocial Considerations of Automated Insulin Delivery*
Marisa E. Hilliard, PhD

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY34-1

Hyperglycemic Crises in Diabetes

Room: W314

Co-Chairs: Nuha El Sayed, MD, MMSc and Guillermo Umpierrez, MD, CDCES, MACP, FACE

3:15 p.m.-3:25 p.m. *Welcome and Introduction—Rationale and Methods*
Guillermo Umpierrez, MD, CDCES, MACP, FACE

3:25 p.m.-3:35 p.m. *Epidemiology—Global Trends, Costs, Mortality*
Georgia M. Davis, MD

3:35 p.m.-3:45 p.m. *Pathogenesis and Diagnostic Criteria*
Ketan Dhatariya, MBBS, MSc, MD, MS, FRCP, PhD

3:45 p.m.-3:55 p.m. *Management—Acute and Transition Protocol*
Rodolfo J. Galindo, MD

3:55 p.m.-4:05 p.m. *Complications and Discharge Protocol*
David C. Klonoff, MD, FACP, FRCP (Edin), Fellow AIMBE

4:05 p.m.-4:15 p.m. *Question and Discussion Period*

Debate

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-DB01-1

Boosting Energy Expenditure in Obesity—Debating the Potential of Thermogenic Adipose Tissue and Skeletal Muscle Bioenergetics as Antiobesity Targets in Humans

Room: W304 A-D

Chair: Shingo Kajimura, PhD

3:15 p.m.-3:30 p.m. *Brown Fat Is a Regulator of Energy Balance in Humans*
Denis Blondin, PhD

3:30 p.m.-3:45 p.m. *The Role of BAT in Obesity and Weight Loss*
Kirsi M. Virtanen, MD

3:45 p.m.-3:50 p.m. *Rebuttal*
Denis Blondin, PhD

3:50 p.m.-3:55 p.m. *Rebuttal*
Kirsi M. Virtanen, MD

3:55 p.m.-4:15 p.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

3:15 p.m.-4:15 p.m.
(continued)

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY06-1

Intermittent Fasting in Various Forms of Diabetes Care *(Includes Livestream)*

Room: W414

Chair: Kelsey Gabel, RD, MS, PhD

3:15 p.m.-3:35 p.m. *Possibilities of Fasting in Patients with Diabetes*

Lisa S. Chow, MD, MS

3:35 p.m.-3:55 p.m. *Can Time-Restricted Eating Inhibit the Progression of Prediabetes?*

Courtney M. Peterson, PhD, MSc, MA, MS

3:55 p.m.-4:15 p.m. *Can Time-Restricted Eating Treat Polycystic Ovary Syndrome?*

Sofia Cienfuegos, PhD, MS

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY18-1

International Consensus Statement and Movement to End Diabetes Stigma

Room: W311

Chair: Jane Speight, MSc, PhD, CPyschol, FBPSS

3:15 p.m.-3:30 p.m. *International Consensus Statement for Ending Diabetes Stigma—
Background, Methodology of the Consensus Statement, and Overview
of Recommendations for Health Professional and Researchers*

Matthew Garza, Bachelor's Degree

3:30 p.m.-3:45 p.m. *Prevalence and Impact of Diabetes Stigma—Implications for Health
Outcomes*

Mary de Groot, PhD

3:45 p.m.-4:00 p.m. *Research in Diabetes Stigma—What's Next?*

Kevin Joiner, PhD, APRN, ANP-BC, CDCES

4:00 p.m.-4:15 p.m. *Integration into Care Settings—Patient Perspective and Identifying
Resources*

Susan Guzman, PhD

SATURDAY, JUNE 22, 2024

4:30 p.m.-6:00 p.m.

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY01-1.5

The Evolution of Diabetes Behavioral Care *(Includes Livestream)*

Room: W307

Chair: Mary de Groot, PhD

4:30 p.m.-5:00 p.m. *Establishing the Evidence Base for Patient Empowerment in Behavioral Diabetes Care*

Gretchen Piatt, PhD, MPH

5:00 p.m.-5:30 p.m. *Harnessing Advanced Methods and Technologies for Behavioral Diabetes Care*

Molly L. Tanenbaum, PhD

5:30 p.m.-6:00 p.m. *Advancing Health Equity in Behavioral Diabetes Care*

Nadia Islam, MA, MPhil, PhD

Main Event

Theme Area: Main Event

Session Number: CT-ME40-1.5

(*) Innovation Challenge *(Includes Livestream)*

(*) Continuing Education Credit Is Not Awarded for this Session

Room: West Hall B3-4 (General Session)

Co-Chairs: Robert A. Gabbay, MD, PhD and Nicole Johnson, DrPH, MPH, MA

4:30 p.m.-6:00 p.m. *Innovation Challenge*

Sean Sullivan, PhD

Bari Krein

Craig Cooper, MBA

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY09-1.5

Diabetes and the Lung—Cause and Consequence *(Includes Livestream)*

Room: W414

Chair: Vanita R. Aroda, MD

4:30 p.m.-4:50 p.m. *What Do We Know about Diabetes and the Lung?*

Juan C. Celedón, MD, DrPH

4:50 p.m.-5:10 p.m. *GLP-1 Receptor Agonists and the Respiratory Outcomes in Patients with Asthma and Chronic Obstructive Pulmonary Disease*

Dinah Foer, MD

5:10 p.m.-5:30 p.m. *Insulin Resistance as a Treatable Trait in Asthma*

Tianshi D. Wu, MD, MHS

5:30 p.m.-5:50 p.m. *Immunometabolic Pathways in Lung Inflammation—Novel Therapeutic Opportunities*

M. Furkan Burak, MD

5:50 p.m.-6:00 p.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

4:30 p.m.-6:00 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY29-1.5

Heterogeneity of Diabetes—Pathophysiology to Global Considerations *(Includes Livestream)*

Room: W320 (Chapin Theater)

Chair: Stephen S. Rich, PhD, FAHA

4:30 p.m.-4:45 p.m. *Heterogeneity of Diabetes—A Global Perspective*

Paul W. Franks, PhD

4:45 p.m.-5:05 p.m. *Heterogeneity in Type 2 Diabetes*

Shivani Misra, MD, PhD

5:05 p.m.-5:25 p.m. *Heterogeneity in Treatment Strategies for Diabetes*

Ronald C. W. Ma, MB, BChir, FRCP

5:25 p.m.-5:45 p.m. *Heterogeneity from Social Determinants of Health*

Tiffany L. Gary-Webb, PhD, MHS

5:45 p.m.-6:00 p.m. *Panel Discussion*

Panel

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-PN02-1.5

Technical Challenges and Solutions in Metabolomics *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Chair: TBD

4:30 p.m.-4:50 p.m. *Coenzyme Metabolomics*

Sophie Trefely, PhD

4:50 p.m.-5:10 p.m. *Nuclear Magnetic Resonance-Based Metabolism*

Stanislaw Deja, PhD

5:10 p.m.-5:30 p.m. *Stable Isotope Tracing In Vivo and Imaging Mass Spec*

Tara TeSlaa, PhD

5:30 p.m.-5:50 p.m. *New Metabolite ID in Metabolomics*

Caroline Chidley, PhD

5:50 p.m.-6:00 p.m. *Question and Discussion Period*

SATURDAY, JUNE 22, 2024

4:30 p.m.-6:00 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR09-1.5

Leveling Up Incretin-Based Therapy in Type 2 Diabetes

Room: W415C (Valencia Ballroom)

Chair: Tina Vilsbøll, MD, DMSc

4:30 p.m.-4:45 p.m.

227-OR Tirzepatide Reduces HbA1c and Body Weight Significantly More than Placebo Regardless of Insulin Sensitivity and Beta-Cell Function—Post Hoc Analysis from SURMOUNT-2

Presenting Author: Tim Heise, MD

4:45 p.m.-5:00 p.m.

228-OR Effect of Pemvidutide, a GLP-1/Glucagon Dual Receptor Agonist, on Cardioinflammatory Lipids

Presenting Author: John J. Suschak, PhD

5:00 p.m.-5:15 p.m.

229-OR Orforglipron Improves Markers of Beta-Cell Function and Insulin Sensitivity in Type 2 Diabetes

Presenting Author: Julio Rosenstock, MD

5:15 p.m.-5:30 p.m.

230-OR Comparative Effectiveness of Semaglutide in Type 2 Diabetes—Year 2 Results of a Randomized Pragmatic Clinical Trial

Presenting Author: John B. Buse, MD, PhD

5:30 p.m.-5:45 p.m.

231-OR Differences in Weight Reduction Efficacy of Tirzepatide in Adults Without vs. With Type 2 Diabetes with Overweight or Obesity in SURMOUNT 1 and 2

Presenting Author: Rodolfo J. Galindo, MD

5:45 p.m.-6:00 p.m.

232-OR Glucagon-Like Peptide 1 Receptor Agonists and Risk of Suicide/Self-Harm in U.S. Older Adults with Type 2 Diabetes—A Population-Based Cohort Study

Presenting Author: Huilin Tang, MSc

SATURDAY, JUNE 22, 2024

4:30 p.m.-6:00 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR08-1.5

Towards Targeted Weight-Loss Therapy—New Considerations for GLP-1RA or Surgery

Room: W304 A-D

Chair: Daniel S. Hsia, MD

233-OR WITHDRAWN

4:30 p.m.-4:45 p.m.

234-OR Performance of a Machine-Learning Gene Risk Score Biomarker to Predict Weight-Loss Response to Tirzepatide and Semaglutide

Presenting Author: Maria D. Hurtado, MD, PhD

4:45 p.m.-5:00 p.m.

235-OR Quality of Life and Health Utility 12 Years after Randomization to Bariatric Surgery vs. Medical Therapy in Patients with Type 2 Diabetes and Obesity—The ARMMS-T2D Study

Presenting Author: Donald C. Simonson, MD, MPH, ScD

5:00 p.m.-5:15 p.m.

236-OR Short-Term Effects of Semaglutide and Tirzepatide on Body Composition in Patients with Obesity Undergoing a Low-Calorie Diet

Presenting Author: Masamitsu Naka, Bachelor's Degree

237-OR WITHDRAWN

5:15 p.m.-5:30 p.m.

238-OR Effect of Baseline Antihyperglycemic Medications on Weight Reduction with Tirzepatide—SURMOUNT-2 Subgroup Analysis

Presenting Author: Sriram Machineni, MD

SUNDAY, JUNE 23, 2024

Scientific Sessions
8:00 a.m.-9:30 a.m.

Panel

Theme Area: Acute and Chronic Complications

Session Number: AC-PN10-1.5

A Multidisciplinary Approach—Challenging Cases from the Cardiometabolic Clinic *(Includes Livestream)*

Room: W307

Chair: Melissa L. Magwire, RN, MSN, CDE

8:00 a.m.-9:00 a.m. *A Multidisciplinary Approach—Challenging Cases from the Cardiometabolic Clinic*

Biykem Bozkurt, MD, PhD, FHFSA, FACC, FAHA, FACP

Chiadi E. Ndumele, MD, PhD

Bruce A. Perkins, MD, MPH, FRCP(C)

Goutham Rao, MD

Evan M. Sisson, PharmD, MHA, CDCES

9:00 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY13-1.5

The Changing Climate of Diabetic Kidney Disease—Environmental Triggers and Vulnerabilities

Room: W206

Chair: Meda E. Pavkov, MD, PhD

8:00 a.m.-8:30 a.m. *Heat Waves and Kidneys—How Climate Change Aggravates Diabetic Nephropathy*

Vivek Bhalla, MD

8:30 a.m.-9:00 a.m. *Clear Waters Ahead? The Impacts of PFAS on Diabetic Kidney Health*

Jesse Goodrich, PhD

9:00 a.m.-9:30 a.m. *The Exposome Imperative—Unlocking the Full Spectrum of Exposure Sciences to Prevent Diabetic Kidney Disease*

Ana Navas-Acien, MD, PhD

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY02-1.5

Loneliness Is a Real Heartbreaker *(Includes Livestream)*

Room: W414

Chair: Kevin Joiner, PhD, APRN, ANP-BC, CDCES

8:00 a.m.-8:30 a.m. *The Epidemic of Loneliness and Isolation*

Anne Gaglioti, MD, MS, FAAFP

8:30 a.m.-9:00 a.m. *The Link between Loneliness and Diabetes*

Xuan Wang, PhD

9:00 a.m.-9:30 a.m. *The Psychological Toll of Loneliness*

Ariana Chao, PhD, MSN, BSN, RN

SUNDAY, JUNE 23, 2024

8:00 a.m.-9:30 a.m.
(continued)

Panel

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-PN10-1.5

Noninsulin Treatment for Type 1 Diabetes

Room: W311

Chair: Richard M. Bergenstal, MD

- 8:00 a.m.-8:20 a.m. *Is There a Place for SGLT Inhibition in Type 1 Diabetes Mellitus?*
Ele Ferrannini, MD
- 8:20 a.m.-8:40 a.m. *Is There a Place for GLP-1RA in Type 1 Diabetes Mellitus?*
Michael A. Nauck, MD
- 8:40 a.m.-9:00 a.m. *Is There a Place for MRA in Type 1 Diabetes Mellitus?*
Hiddo L. Heerspink, PhD
- 9:00 a.m.-9:20 a.m. *The Lived Experience*
Wes Unger
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY01-1.5

Metformin Reexamined—Pleiotropic Effects in Mother and Offspring in Humans and Animal Models

Room: W315

Chair: Linda A. Barbour, MD, MSPH, FACP

- 8:00 a.m.-8:15 a.m. *First Do No Harm—Potential Fetal Programming Perils with Maternal Metformin Use in Pregnancy*
Kjersti M. Aagaard, MD, PhD, FACOG
- 8:15 a.m.-8:30 a.m. *Effects and Consequences of Metformin Action in the Fetal Liver from Nonhuman Primates and Sheep*
Stephanie R. Wesolowski, PhD
- 8:30 a.m.-8:45 a.m. *Effects of Metformin and Maternal Overnutrition on Fetal Pancreas and Islet Mitochondria in Nonhuman Primates*
Maureen Gannon, PhD
- 8:45 a.m.-9:00 a.m. *Evidence for Long-Term Effects of In Utero Metformin Exposure—Where Do We Go from Here?*
Susan Ozanne, PhD
- 9:00 a.m.-9:30 a.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY24-1.5

Joint ADA/ISPAD Symposium—Pediatric Diabetes Insights and Innovations

Room: W415C (Valencia Ballroom)

Co-Chairs: Jamie R. Wood, MD and Eda Cengiz, MD, MHS

8:00 a.m.-8:20 a.m. *What Is New in Treatment of Preschool Children with Type 1 Diabetes Mellitus?*

Carine de Beaufort, MD, PhD

8:20 a.m.-8:40 a.m. *Inpatient Pediatric Diabetes Technology Use*

Erin C. Cobry, MD

8:40 a.m.-9:00 a.m. *Innovations in Diabetes Education—App-Based Diabetes Technology Education and More...*

Brynn E. Marks, MD, MSHPEd

9:00 a.m.-9:20 a.m. *Rethinking First-Line Therapy in Pediatric Type 2 Diabetes*

Shylaja Srinivasan, MD, MAS

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY36-1.5

The State of Health Equity and Disability—Supporting Diabetes Technology Usage in People Who Are Deaf/Hard of Hearing or Blind/Low Vision

Room: W314

Co-Chairs: Nancy A. Allen, PhD and Jeremy Quiroga

8:00 a.m.-8:20 a.m. *Fostering Inclusivity—Advancing Diabetes Technology for Deaf and Hard of Hearing Individuals*

Michelle L. Litchman, PhD, FNP-BC

8:20 a.m.-8:40 a.m. *Hacks to Address the Lack of Diabetes Technology Accessible for Deaf and Hard of Hearing People with Diabetes*

Ryan Layton

8:40 a.m.-9:00 a.m. *Enhancing Diabetes Technology Accessibility for Individuals Who Are Blind or Have Low Vision*

Allyson S. Hughes, PhD

9:00 a.m.-9:20 a.m. *Real-World Challenges Using Diabetes Technology as a Person with Low Vision*

Chelcie Rice

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY44-1.5

Diabetes and Organ Transplantation—Pathophysiology, Inpatient and Outpatient Management

Room: W208

Chair: Boris Draznin, MD, PhD

- 8:00 a.m.-8:20 a.m. *Diabetes and Organ Transplantation—An Overview*
Archana R. Sadhu, MD, FACE
- 8:20 a.m.-8:40 a.m. *Management of Diabetes following Liver Transplantation*
Palak Choksi, MD
- 8:40 a.m.-9:00 a.m. *Diabetes and Kidney Transplantation*
Robert J. Rushakoff, MD
- 9:00 a.m.-9:30 a.m. *Question and Discussion Period*

Panel

Theme Area: Epidemiology/Genetics

Session Number: EG-PN04-1.5

When a Box Isn't a Box—Research Frameworks for Understanding and Addressing Disparities in Type 2 Diabetes

Room: W207

Chair: Jacqueline A. Seigle, MD, MSc

- 8:00 a.m.-8:20 a.m. *Adapting the NIMHD Research Framework for Diabetes Disparities across the Lifespan*
Eyitayo O. Owolabi, PhD, RN
- 8:20 a.m.-8:40 a.m. *Applying Implementation Science Frameworks to Advance Diabetes Prevention Efforts*
Lillian Madrigal, PhD, MPH
- 8:40 a.m.-9:00 a.m. *National Policy Frameworks for Addressing Type 2 Diabetes*
Puneet Kaur Chehal, MA, PhD
- 9:00 a.m.-9:20 a.m. *A Pragmatic Action-Based Framework to Address Global Inequities in Diabetes*
Ashby F. Walker, PhD
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-SY04-1.5

Translating Type 1 Diabetes Risk Alleles to Therapy

Room: W304 A-D

Chair: Suna Onengut-Gumuscu, PhD

- 8:00 a.m.-8:20 a.m. *IL2RA Variation Shapes Type 1 Diabetes Risk*
Harikesh S. Wong, PhD, BSc
- 8:20 a.m.-8:40 a.m. *HLA as a Target, Not a Predictor*
Aaron W. Michels, MD
- 8:40 a.m.-9:00 a.m. *Targeting TYK2 for Treatment of Type 1 Diabetes*
Farooq Syed, PhD
- 9:00 a.m.-9:20 a.m. *Fixing FOXP3+ Cells in Type 1 Diabetes*
Matthew E. Brown, BS
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-SY04-1.5

Metabolite Transport and Molecular Metabolism

Room: W304 E-H

Chair: TBD

- 8:00 a.m.-8:20 a.m. *Fumarate and Mitochondrial Energetics*
Jessica Spinelli, PhD
- 8:20 a.m.-8:40 a.m. *Lipid Transport and Metabolism*
Judith Simcox, BA, PhD
- 8:40 a.m.-9:00 a.m. *Insulin Signaling and Bile Acid Transport and Metabolism*
Rebecca Haeusler, PhD
- 9:00 a.m.-9:20 a.m. *Mitochondrial Pyruvate Transport and Liver Metabolism*
Brian N. Finck, PhD
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY11-1.5

Severe GLP-1RA Side Effects in Obesity Treatment—Fact or Fiction? (Includes Livestream)

Room: W415B (Valencia Ballroom)

Chair: Mary-Elizabeth Patti, MD

- 8:00 a.m.-8:20 a.m. *Pancreatitis and Gall Bladder Disease*
Daniel J. Drucker, MD
- 8:20 a.m.-8:40 a.m. *Suicide Risk*
John-Michael Gamble, PhD
- 8:40 a.m.-9:00 a.m. *Thyroid Cancer*
Elizabeth N. Pearce, MD, MSc
- 9:00 a.m.-9:20 a.m. *Fine-Tuning the Patient's GLP-1 Experience*
Beverly G. Tchang, MD
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY12-1.5

ADA Diabetes Journal Symposium—It Is All in Your Head—Central Nervous System Control of Systemic Metabolism

Room: W308

Chair: Jennifer L. Estall, PhD

8:00 a.m.-8:20 a.m. *Brain Defense of Glycemia in Health and Diabetes*
Zaman Mirzadeh, MD, PhD

8:20 a.m.-8:40 a.m. *Central Nervous System Regulation of Systemic Glucose—Lessons
Learned from the Adaptation to Exercise*
Kevin Williams, PhD

8:40 a.m.-9:00 a.m. *What the Gut Says to the Brain About Food*
Laura Rupprecht, PhD

9:00 a.m.-9:20 a.m. *Neural Signaling To and From Adipose Tissue in the Regulation of
Metabolic Health*
Kristy L. Townsend, PhD

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

9:45 a.m.-11:15 a.m.

President, Medicine & Science Address *(Includes Livestream)*

Fighting Diabetes—A Journey That Began in Childhood
Mandeep Bajaj, MBBS

and

National Scientific & Health Care Achievement Awards Presentation *(Includes Livestream)*

Room: West Hall B3-4 (General Session)

11:30 a.m.-12:30 p.m.

Professional Interest Group

Theme Area: Acute and Chronic Complications

Session Number: AC-IG01-1

Discussion on Diabetes and Cardiovascular Disease—Obesity and Diabetes—Innovative Research to Inform Clinical Practice

Room: W206

Chair: Heather Ferris, MD, PhD

11:30 a.m.-11:33 a.m. *Introduction*

11:33 a.m.-11:48 a.m. *Ketone Metabolism and Cardiometabolic Disease*
Peter A. Crawford, MD, PhD

11:48 a.m.-12:03 p.m. *Dapagliflozin According to Body Mass Index*
Mikhail N. Kosiborod, MD

12:03 p.m.-12:18 p.m. *REAL HEALTH-Diabetes Trial*
Deborah J. Wexler, MD, MSc

12:18 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Acute and Chronic Complications

Session Number: AC-IG03-1

Discussion on Eye Health—Novel Diabetes Therapies in Diabetic Retinopathy—A Basic Science and Preclinical Perspective

Room: W207

Chair: Blake Cooper, MD, MPH

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:55 a.m. *Novel Therapies in Clinical Trials and Treatment Strategies for Diabetic Retinopathy*
T. Y. Alvin Liu, MD

11:55 a.m.-12:15 p.m. *Therapies in Development for Diabetic Retinopathy—A Basic Science*
Thomas W. Gardner, MD, MS

12:15 p.m.-12:30 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Interest Group

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-IG01-1

Discussion on Behavioral Medicine and Psychology—Including the Excluded in Behavioral Diabetes Research

Room: W208

Chair: Marisa E. Hilliard, PhD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:45 a.m. *Recruitment, Retention, and Engagement of Men from Minoritized Racial and Ethnic Groups in Behavioral Diabetes Research*

Jaclynn M. Hawkins, PhD, MSW

11:45 a.m.-11:55 a.m. *Recruitment, Retention, and Engagement of People with Neurodiversity in Behavioral Research*

Susana R. Patton, PhD, ABPP, CDCES

11:55 a.m.-12:05 p.m. *Recruitment, Retention, and Engagement of LGBTQIA+ People in Behavioral Research*

Lauren B. Beach, Esq., JD, PhD

12:05 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-IG03-1

Discussion on Diabetes Self-Management Education and Support (DSMES)—It's Time to Change the Way We Talk about DSMES!

Room: W308

Chair: Joyce Y. Lee, PharmD, APh, FCCP, BCPS, BCACP, CDCES

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:50 a.m. *Prioritizing Health Equity in Diabetes Overview—Centers for Disease Control and Prevention DP23-0020*

Leslie Harrison, MPH

11:50 a.m.-12:05 p.m. *Centers for Disease Control and Prevention DSMES Toolkit*

Melissa Bing, MPH

12:05 p.m.-12:20 p.m. *Centers for Disease Control and Prevention DSMES Playbook—Let's Get to It!*

Betsy Rodriguez, BSN, MSN, CDCES, FADCES

12:20 p.m.-12:30 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Interest Group

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-IG02-1

Discussion on Diabetes in Primary Care—Tackling Diabetes in Primary Care—Training and Workforce Development

Room: W304 A-D

Chair: Rozalina G. McCoy, MD MS

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-12:00 p.m. *Training Primary Care Providers to Be Diabetes Specialists*
Jay H. Shubrook, DO

12:00 p.m.-12:25 p.m. *Leveraging Specialty Diabetology within Primary Care*
Sarah Cote, NP, CDCES, BC-ADM

12:25 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-IG06-1

Discussion on Clinical Centers and Programs—Challenges in Management of Diabetes in Older Adults and in Primary Care

Room: W304 E-H

Chair: Ali A. Rizvi, MD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-12:00 p.m. *Success in Suboptimally Controlled Type 2 Diabetes—The Magic of CGM and Collaboration*
Andrew Behnke, MD

12:00 p.m.-12:25 p.m. *Challenges in the Management of Diabetes in Older Adults*
Tali Cukierman-Yaffee, MD, MPH

12:25 p.m.-12:30 p.m. *Question and Discussion Period*

Workshop

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-WS37-1

Improving Care for Deaf People with Diabetes Who Use ASL Interpreters—A Hands-On Workshop

Room: W311

Chair: Michelle L. Litchman, PhD, FNP-BC

11:30 a.m.-11:50 a.m. *Language Access Disparity—The Link between Being Deaf and Having Diabetes*
Karissa Mirus, MHSA

11:50 a.m.-12:10 p.m. *Best Practices for Working with Deaf Populations and ASL Interpreters*
Susan Layton, CI, CT, NAD IV

12:10 p.m.-12:30 p.m. *Hands-on Simulation of Working with Deaf Populations and ASL Interpreters*
Michelle L. Litchman, PhD, FNP-BC
Jeremy Quiroga

SUNDAY, JUNE 23, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Development

Theme Area: Professional Development

Session Number: PD-02-1

Art of Writing a Winning Grant *(Includes Livestream)*

Room: W307

Chair: William T. Cefalu, MD

11:30 a.m.-11:50 a.m. *Basic Science Perspective*

Philipp E. Scherer, PhD

11:50 a.m.-12:10 p.m. *Clinical/Translational Science Perspective*

Dana Dabelea, MD, PhD

12:10 p.m.-12:30 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

11:30 a.m.-12:30 p.m.
(continued)

ePoster Theater

Theme Area: Clinical Diabetes/Therapeutics

Session Number: ePoster07

(*) Improving Efficacy and Safety of Incretin-Based Therapies

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Stewart B. Harris, CM, MD, MPH, FCFP, FACPM

() Continuing Education Credit Is Not Awarded for this Session.*

- | | |
|-------|---|
| | 11:30 a.m.-11:40 a.m. |
| 736-P | Comparison of Semaglutide vs. Tirzepatide Therapy in Adults with Type 1 Diabetes (T1D)
Presenting Author: Henon Gebre, MPH |
| | 11:40 a.m.-11:50 a.m. |
| 737-P | Acute Healthcare Utilization, Mortality, and Cardiovascular Events following GLP-1RA Initiation by Patients with Advanced Chronic Kidney Disease—A Real-World Comparative Study
Presenting Author: Shuyao Zhang, MD |
| | 11:50 a.m.-12:00 p.m. |
| 738-P | Real-World Effectiveness among Patients with Type 2 Diabetes (T2D) Initiating Tirzepatide (TZP)
Presenting Author: Reema Mody, MBA, PhD |
| | 12:00 p.m.-12:10 p.m. |
| 739-P | Efficacy and Safety of Tirzepatide in Overweight (OW) and Obese (OB) Patients with Type 1 Diabetes (T1D)
Presenting Author: Janet K. Snell-Bergeon, PhD, MPH |
| | 12:10 p.m.-12:20 p.m. |
| 740-P | Persistence and Adherence of Once-Weekly GLP-1 Receptor Agonists in Patients with Type 2 Diabetes and Atherosclerotic Cardiovascular Disease in a Real-World Setting
Presenting Author: Tyler Dunn, PhD |

SUNDAY, JUNE 23, 2024

11:30 a.m.-12:30 p.m.
(continued)

ePoster Theater

Theme Area: Islet Biology/Insulin Secretion

Session Number: ePoster08

(*) Islet Biology

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Joana Almaca, PhD

(*) Continuing Education Credit Is Not Awarded for this Session.

11:30 a.m.-11:40 a.m.

1728-P The Nkx6.1 Binding Partner Mef2D Modulates Beta-Cell Insulin Secretion and Cell Survival

Presenting Author: Jeffery S. Tessem, PhD

11:40 a.m.-11:50 a.m.

1729-P Hypertonicity Mediates Glucose-Induced First-Phase Insulin Secretion

Presenting Author: Ian Sweet, PhD

11:50 a.m.-12:00 p.m.

1730-P In Vitro and In Vivo Effects of Increased IAPP Expression on Human Islet Function

Presenting Author: Jordan J. Wright, MD, PhD

12:00 p.m.-12:10 p.m.

1731-P Screening Human Islets to Identify Small Molecules Enhancing Glucagon Secretion under Hypoglycemia

Presenting Author: Thomas Bate, PhD

1761-P WITHDRAWN

SUNDAY, JUNE 23, 2024

12:30 p.m.-1:30 p.m.

ePoster Theater

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: ePoster09

(*) Exploring Eating Behaviors and Weight Loss in Youth and Adults with Type 1 and Type 2 Diabetes

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Lindsay S. Mayberry, PhD

(*) Continuing Education Credit Is Not Awarded for this Session.

12:30 p.m.-12:40 p.m.

640-P Disordered Eating Screening within a Pediatric Diabetes Clinic

Presenting Author: Nicole Andorko, PhD

12:40 p.m.-12:50 p.m.

641-P Body Image and Insulin Restriction among Adolescents with Type 1 Diabetes

Presenting Author: Rachna Sannegowda, BS

12:50 p.m.-1:00 p.m.

642-P Reasons behind Fasting Ramadan against Medical Advice for Individuals under 18 Years with Uncontrolled Type 1 Diabetes—A Tertiary Center Experience

Presenting Author: Zahra Rahme, MSc

1:00 p.m.-1:10 p.m.

643-P Exploring Eating Styles of Older Adults with Type 1 Diabetes (T1D)

Presenting Author: Nikhita R. Gopisetty, MSc

1:10 p.m.-1:20 p.m.

644-P Racial Ethnic Disparities in Prescription of GLP-1 Receptor Agonists for People at High Risk for Diabetes on Atypical Antipsychotics

Presenting Author: Jithin Sam Varghese, PhD, MTech

SUNDAY, JUNE 23, 2024

12:30 p.m.-1:30 p.m.
(continued)

ePoster Theater

Theme Area: *Acute and Chronic Complications*

Session Number: ePoster10

(*) New Progress in Clinical Screening and Interventions for ASCVD Risk Mitigation in Metabolic Disease

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Jonathan Q. Purnell, MD

(*) Continuing Education Credit Is Not Awarded for this Session.

12:30 p.m.-12:40 p.m.

- 433-P Status of Type 2 Diabetes among Young Adults in Community Health Centers**
Presenting Author: Sean E. DeLacey, MD

12:40 p.m.-12:50 p.m.

- 434-P Type 2 Diabetes Rather than the Presence of Significant Coronary Stenoses Is Associated with Quality of Life in Angiographed Coronary Patients**
Presenting Author: Magdalena Ratz, Mag.

12:50 p.m.-1:00 p.m.

- 435-P Prediabetes and Cardiovascular Disease (CVD) Risk—Insights from a Large-Scale Japanese Cohort Investigating the Impact of Regular Hospital Visits**
Presenting Author: Koshiro Murai, MD

1:00 p.m.-1:10 p.m.

- 436-P Stringent Glycemic Control and Long-Term Macrovascular Outcomes in People with Type 2 Diabetes in China—A Retrospective Study**
Presenting Author: Qi Pan, Professor

1:10 p.m.-1:20 p.m.

- 437-P Three Decades of Lipid-Lowering Therapy in Type 2 Diabetic Patients with Angiographically Proven Stable Coronary Artery Disease**
Presenting Author: Johannes Vogel, Mag.

SUNDAY, JUNE 23, 2024

12:30 p.m.-1:30 p.m.

Session Break

(Take this opportunity to visit the Exhibit and Poster Halls)

1:30 p.m.-3:00 p.m.

Debate

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-DB07-1.5

The Role of Artificial Intelligence in Transforming Nutrition and Diabetes Care—Ready for Prime Time or Not Quite?

Room: W311

Chair: Janice MacLeod, MD

1:30 p.m.-1:50 p.m. *Yes, the Future Is Now—Harness the Benefits Artificial Intelligence Has to Offer*

Samantha Kleinberg, PhD

1:50 p.m.-2:10 p.m. *Not Quite, but We Are on Our Way to Building the Evidence*

Holly Nicastro, PhD, MPH

2:10 p.m.-2:20 p.m. *Rebuttal*

Samantha Kleinberg, PhD

2:20 p.m.-2:30 p.m. *Rebuttal*

Holly Nicastro, PhD, MPH

2:30 p.m.-3:00 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY32-1.5

Global Burden of Cardiovascular Disease in People with Diabetes (Includes Livestream)

Room: W320 (Chapin Theater)

Co-Chairs: Nuha El Sayed, MD, MMSc and Raveendhara Bannuru, MD, PhD, FAGE

1:30 p.m.-1:45 p.m. *Cardiometabolic Disease Introduction and United Kingdom Region*

Kamlesh Khunti, PhD, MD, FRCGP, FRCP, FMedSci

1:45 p.m.-2:00 p.m. *Cardiovascular Disease in China*

Weiping Jia, MD

2:00 p.m.-2:15 p.m. *Cardiovascular Disease in India*

Rakesh Kumar Sahay, MD, DNB, DM

2:15 p.m.-2:30 p.m. *Cardiometabolic Disease in Arabian Gulf Region*

Mohammed Hassanein, FRCP, CCST, MPHIL

2:30 p.m.-3:00 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR04-1.5

Continuous Glucose Monitoring—Can It Reduce Hypoglycemia Burden?

Room: W307

Chair: Ilias (Elias) Spanakis, MD

1:30 p.m.-1:45 p.m.

239-OR CGM Has a Specific Effect on the Reduction of Nocturnal Hypoglycemia in People with Type 1 Diabetes on an MDI Treatment Regimen

Presenting Author: Norbert Hermanns, PhD

1:45 p.m.-2:00 p.m.

240-OR Longitudinal Assessment of Glycemia and Severe Hypoglycemia among Adults with Type 1 Diabetes—An Online Survey

Presenting Author: Jennifer L. Sherr, MD, PhD

2:00 p.m.-2:15 p.m.

241-OR Health-Related Quality of Life and Burden of Type 1 Diabetes and Severe Hypoglycemia in Adult Continuous Glucose Monitor Users

Presenting Author: Adriana Boateng-Kuffour, MS, MPH

2:15 p.m.-2:30 p.m.

242-OR The Impact of Glucose Threshold on the Number and Duration of Glucose Episodes

Presenting Author: Vaios Koutroukas, MBBS, MA

2:30 p.m.-2:45 p.m.

243-OR Characterization of Behavioral Patterns Involving Hypoglycemic Episodes in Type 1 Diabetes—Results from the T1DEXI Study Cohort

Presenting Author: Jose F. Garcia-Tirado, PhD

2:45 p.m.-3:00 p.m.

244-OR Association of Type 1 Diabetes Duration or Duration of Advanced Technology Utilization with Severe Hypoglycemic Event Frequency

Presenting Author: Patrick Callahan, PharmD, MS

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR09-1.5

Emerging Small Molecule Biomarkers of ASCVD Risk in Metabolic Disease

Room: W208

Chair: Zsu-Zsu Chen, MD

1:30 p.m.-1:45 p.m.

245-OR Proteomic Analysis of Mineralocorticoid Receptor Antagonism in Diabetic Atherosclerosis (MAGMA)—Results and Integrated Predictors of Response

Presenting Author: Armando Vergara-Martel, MS

1:45 p.m.-2:00 p.m.

246-OR Association of Erythritol and Erythronate with Cardiovascular Outcomes and Death

Presenting Author: Layla A. Abushamat, MD, MPH

2:00 p.m.-2:15 p.m.

247-OR Blood Monocyte Phenotype Predicts Cardiovascular Risk in Type 2 Diabetes

Presenting Author: Nicolas Venteclaf, PhD

2:15 p.m.-2:30 p.m.

248-OR Pro-B-Type Natriuretic Peptide Strongly Predicts Major Cardiovascular Events and Cardiovascular Mortality in Cardiovascular Disease Patients with NAFLD as Well as in Those without NAFLD

Presenting Author: Thomas Plattner, Doctor

2:30 p.m.-2:45 p.m.

249-OR Cystatin C Predicts Cardiovascular Events in Patients with Coronary Artery Disease Both among Patients with and among Those without Type 2 Diabetes

Presenting Author: Christoph H. Saely, Professor

2:45 p.m.-3:00 p.m.

250-OR Ceramides Surpass LDL-Cholesterol in Predicting Cardiovascular Mortality in Diabetic and Nondiabetic Patients

Presenting Author: Andreas Leiherer, Doz. Dr.

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR02-1.5

Multifaceted Insights into Behavioral and Psychosocial Care for Youth and Families

Room: W314

Chair: Lori M. Laffel, MD, MPH

1:30 p.m.-1:45 p.m.

251-OR COIN2DOSE—Proof of Concept That a Behavioral Economics Intervention Can Increase Mealtime Insulin Use in Adolescents with Type 1 Diabetes

Presenting Author: Susana R. Patton, PhD, ABPP, CDCES

1:45 p.m.-2:00 p.m.

252-OR Psychosocial Predictors of Diabetes Self-Efficacy in Young Adults with Youth-Onset Type 2 Diabetes

Presenting Author: Paula M. Trief, PhD

2:00 p.m.-2:15 p.m.

253-OR Exploring Incorporation of Type 1 Diabetes into Identity and Perceptions of Diabetes Technologies in Adolescents and Young Adults (AYAs)

Presenting Author: Persis V. Commissariat, PhD, CDCES

2:15 p.m.-2:30 p.m.

254-OR Sleep Disturbance and Diabetes Symptom Burden in Young Adults with Type 1 Diabetes

Presenting Author: Stephanie Griggs, PhD, RN

2:30 p.m.-2:45 p.m.

255-OR The Relationship between Daytime Child Glycemic Levels and Parent Fear of Hypoglycemia

Presenting Author: Alexandra Monzon, PhD

2:45 p.m.-3:00 p.m.

256-OR Understanding Parent and Youth Diabetes Device Satisfaction

Presenting Author: Jessie J. Wong, PhD

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR06-1.5

Novel Approaches to Treatment and Characterization of Diabetes in Pregnancy (With Norbert Freinkel Award Lecture) (With ADA Presidents' Select Abstract Presentation) *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Chair: William L. Lowe, Jr., MD

1:30 p.m.-2:00 p.m.
Norbert Freinkel Award Lecture

Atlantic DIP—Changing the Landscape for Better Maternal and Infant Health

Fidelma P. Dunne, MD, PhD, FRCP, FRCPI

2:00 p.m.-2:15 p.m.

257-OR ADA Presidents' Select Abstract: The Effect of a Reduced-Energy Diet upon Maternal Weight and Pregnancy Outcomes in Women with Gestational Diabetes—The DiGest Trial

Presenting Author: Claire L. Meek, MB, ChB, MRCP, FRCPath, PhD

2:15 p.m.-2:30 p.m.

258-OR The Effect of Early Initiation of Treatment on Glycemia and Pregnancy Outcomes in Women with Early Gestational Diabetes Mellitus

Presenting Author: Jincy Immanuel, PhD

2:30 p.m.-2:45 p.m.

259-OR Real-Time CGM Achieves Higher TIR among Pregnant Persons with GDM

Presenting Author: Amy M. Valent, DO, MCR

2:45 p.m.-3:00 p.m.

260-OR Differences in Adipocyte Expandability and Function between Healthy Pregnancies and Pregnancies Complicated by Gestational Diabetes Mellitus and Preeclampsia

Presenting Author: Zoe Lees, MSc

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR08-1.5

Weighing Opportunities of Incretin-Based Therapy in Obesity (With ADA Presidents' Select Abstract Presentation)

Room: W415C (Valencia Ballroom)

Chair: Ildiko Lingvay, MD, MPH, MSCS

1:30 p.m.-1:45 p.m.

261-OR ADA Presidents' Select Abstract: Single-Dose GLP-1-Based Pancreatic Gene Therapy Durably Maintains Body Composition and Glycemia after Semaglutide Withdrawal in a Murine Model of Obesity

Presenting Author: Harith Rajagopalan, MD, PhD

1:45 p.m.-2:00 p.m.

262-OR Pemvidutide, a GLP-1/Glucagon Dual Receptor Agonist, in Subjects with Overweight or Obesity—A 48-Week, Placebo-Controlled, Phase 2 (MOMENTUM) Trial

Presenting Author: Louis Aronne, MD

2:00 p.m.-2:15 p.m.

263-OR Effects of Tirzepatide on Central Reward and Appetite Circuits in the Brain

Presenting Author: Owen Carmichael, PhD

2:15 p.m.-2:30 p.m.

264-OR Effect of Tirzepatide on Kidney Function in People with Excess Body Weight and Type 2 Diabetes—A Post-Hoc Analysis of the SURMOUNT-2 Trial

Presenting Author: Hiddo L. Heerspink, PhD

2:30 p.m.-2:45 p.m.

265-OR Understanding Patterns of GLP-1/GLP-1 RA Use among Individuals with Type 1 Diabetes—A T1D Exchange (T1DX) Online Registry Analysis

Presenting Author: Yogish C. Kudva, MD

2:45 p.m.-3:00 p.m.

266-OR Retatrutide, an Agonist of GIP, GLP-1, and Glucagon Receptors, Improves Markers of Pancreatic Beta-Cell Function and Insulin Sensitivity

Presenting Author: Melissa K. Thomas, MD, PhD

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR14-1.5

New Technology—AID Focus

Room: W315

Chair: Elena Toschi, MD

267-OR WITHDRAWN

1:30 p.m.-1:45 p.m.

268-OR Perioperative Fully Closed-Loop vs. Standard Insulin Delivery in Adults Undergoing Major Abdominal Surgery—A Two-Center Randomized Controlled Trial

Presenting Author: Gabija Krutkyte, MD

1:45 p.m.-2:00 p.m.

269-OR Glucose Control in Free-Life under Hybrid Closed-Loop 6 and 12 Months after Initiation from a Nationwide Survey

Presenting Author: Jean-Pierre Riveline, MD, PhD

2:00 p.m.-2:15 p.m.

270-OR Real-World Outcomes with the Omnipod 5 Automated Insulin Delivery (AID) System for >7,500 Users with High HbA1c (>9%) at Baseline

Presenting Author: Gregory P. Forlenza, MD, MS

2:15 p.m.-2:30 p.m.

271-OR Automated Hybrid Closed-Loop (AHCL) Systems for the Treatment of Cystic Fibrosis Related Diabetes (CFRD)

Presenting Author: Valeria Grancini, MD, PhD

2:30 p.m.-2:45 p.m.

272-OR Effect of 48 Months of Closed-Loop Insulin Delivery on Residual C-Peptide Secretion and Glycemic Control in Newly Diagnosed Youth with Type 1 Diabetes

Presenting Author: Julia Ware, MBChB

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Epidemiology/Genetics

Session Number: EG-OR05-1.5

Common and Rare Genetic Variant Associations and MolecularQTL Scans in Type 2 Diabetes Tissues

Room: W207

Chair: Marijana Vujkovic, PhD

1:30 p.m.-1:45 p.m.

273-OR Initial eQTL Discovery in Individual Pancreatic Cell Types from the Human Pancreas Analysis Program

Presenting Author: Mary A. Weidekamp, BS

1:45 p.m.-2:00 p.m.

274-OR Population-Scale Single-Nucleus Skeletal Muscle Chromatin Dynamics and Nucleosome Positioning in the Context of Type 2 Diabetes

Presenting Author: Xiaou Wang, MS

2:00 p.m.-2:15 p.m.

275-OR Associations of Combined Genetic and Lifestyle Risks with Incident Type 2 Diabetes in the UK Biobank

Presenting Author: Cassandra N. Spracklen, PhD

2:15 p.m.-2:30 p.m.

276-OR Common Variant Polygenic Risk Score Influences Penetrance of Rare Variants in Monogenic Diabetes Genes

Presenting Author: Alicia Huerta, PhD

2:30 p.m.-2:45 p.m.

277-OR Whole-Genome Sequencing Identifies a Rare Noncoding Variant Proximal to METRN Associated with HbA1c Levels

Presenting Author: Gareth Hawkes, PhD

2:45 p.m.-3:00 p.m.

278-OR Single-Nucleus Multiomics Profiling across 49 Individuals of Hispanic Ancestry Reveals Cell-Specific Skeletal Muscle Insulin-Responsive Gene Regulatory Signatures

Presenting Author: Benjamin Li, BS

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-OR03-1.5

Metabolic Control of Insulin Action and Secretion *(Includes Livestream)*

Room: W414

Chair: Young-Bum Kim, PhD

1:30 p.m.-1:45 p.m.

279-OR FBLN7 in Pre-adipocytes Promotes Adipose Tissue Fibrosis and Disrupts Metabolic Homeostasis in Obesity

Presenting Author: Hairong Yu, PhD

1:45 p.m.-2:00 p.m.

280-OR Manganese Regulates Hepatic Insulin Sensitivity and Glucose Tolerance

Presenting Author: Jennifer Gamarra, MA

2:00 p.m.-2:15 p.m.

281-OR Pyruvate Carboxylase Flux Is Increased in the Type 1 Diabetic Exocrine Pancreas

Presenting Author: Anna Rushin, BS

2:15 p.m.-2:30 p.m.

282-OR Nod1 Plays a Causal Role in Western-Diet-Induced Insulin Resistance and Glucose Intolerance in Microbiota-Deficient Conditions

Presenting Author: S. M. Niazur Rahman, MD, MSc

2:30 p.m.-2:45 p.m.

283-OR Adipose Stromal Cells Increase Insulin Sensitivity and Decrease Liver Gluconeogenesis in a Type 1 DM Mouse Model

Presenting Author: Lee-Wei Chen, MD

2:45 p.m.-3:00 p.m.

284-OR Androgen-Dependent Tissue Factor Pathway Inhibitor-Regulating Protein (ADTRP) Regulates Macrophage Polarization and Migration to Adipocytes

Presenting Author: Sze Min Ong, Bachelor's Degree

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-OR02-1.5

Islet Signal Transduction

Room: W206

Chair: Jeffrey S. Tessem, PhD

1:30 p.m.-1:45 p.m.

285-OR m⁶A carRNA Methylation Regulates Chromatin State and Transcription in Islets from Humans with Type 2 Diabetes

Presenting Author: Namrata Shukla, MSc, PhD

1:45 p.m.-2:00 p.m.

286-OR JNK3—A Key Downstream Target of Incretin Responses in β -Cells

Presenting Author: Ruy Andrade Louzada Neto, PhD

2:00 p.m.-2:15 p.m.

287-OR Traf6 Directs a Noncanonical Role for Innate Immune Signaling in Pancreatic β -Cells

Presenting Author: Elena Levi D. Ancona, BS

2:15 p.m.-2:30 p.m.

288-OR Inflammation-Induced Repression of Insulin Production by Targeting Its mRNA to Stress Granules via ADP-Ribosylation Machinery

Presenting Author: Soumyadeep Sarkar, MS, PhD

2:30 p.m.-2:45 p.m.

289-OR Autophagy Promotes Islet α -Cell Function by Maintaining ER Proteostasis and Glucagon Production

Presenting Author: Wenzhen Zhu, PhD

2:45 p.m.-3:00 p.m.

290-OR Acetylation Induces a SUMOylation–Phosphorylation Switch to Enhance MafA Transactivation

Presenting Author: Margot Chirikjian, BS

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR02-1.5

Research Advances in Metabolic Liver Disease

Room: W308

Chair: Michael R. Rickels, MD, MS

1:30 p.m.-1:45 p.m.

- 291-OR A Noninvasive Index for Significant Liver Fibrosis and Stratifying Risk of Cirrhosis in Patients with Type 2 Diabetes Mellitus in Primary Care**
Presenting Author: Xiaolong Qi, MD

1:45 p.m.-2:00 p.m.

- 292-OR Coenzyme A Synthase Knockdown Alleviates Metabolic Dysfunction-Associated Steatohepatitis via Decreasing Cholesterol in Liver Lipid Droplets**
Presenting Author: Ikki Sakuma, MD, PhD

2:00 p.m.-2:15 p.m.

- 293-OR Improvement of Tissue-Specific Insulin Sensitivity after Bariatric Surgery Does Not Restore Hepatic OXPHOS Capacity**
Presenting Author: Sabine Kahl, MD

2:15 p.m.-2:30 p.m.

- 294-OR The Role of Inositol Polyphosphate Multikinase in Progression of Nonalcoholic Steatohepatitis**
Presenting Author: Ikrak Jung, PhD

2:30 p.m.-2:45 p.m.

- 295-OR The PNPLA3 G-allele Reduces the Beneficial Effects of a Healthy Diet on Hepatic Lipid Content in Type 2 Diabetes**
Presenting Author: Kalliopi Pafili, Doctor

2:45 p.m.-3:00 p.m.

- 296-OR Glucagon and Insulin Cross Talk Regulates Hepatic Glycogen Metabolism**
Presenting Author: Megan Capozzi, PhD

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR04-1.5

New Insights into Therapeutic Strategies for Obesity and Diabetes

Room: W304 E-H

Chair: Julio E. Ayala, PhD

1:30 p.m.-1:45 p.m.

297-OR A Novel GLP-1/FGF21 Dual Agonist ZT003 Has Therapeutic Potential for Obesity, Diabetes, and Nonalcoholic Steatohepatitis

Presenting Author: Yuanyuan Zhang, PhD

1:45 p.m.-2:00 p.m.

298-OR Precision-Engineered Activin and GDF Ligand Trap HS235—A Novel Lean Mass-Preserving Treatment for Obesity

Presenting Author: Maureen O'Connor, PhD

2:00 p.m.-2:15 p.m.

299-OR Discovery of Long-Acting Unimolecular Peptide Tetra-agonists Targeting GLP-1, GIP, Amylin, and Calcitonin Receptors for Enhanced Metabolic Benefits in Animal Models of Obesity

Presenting Author: Cristina M. Rondinone, PhD

2:15 p.m.-2:30 p.m.

300-OR Beneficial Effect of the Combination Therapy of Cagrilintide, a Dual Amylin/Calcitonin Agonist, and Tirzepatide, a Dual GLP-1/GIP Agonist, on Body Weight Loss in Obese Rats

Presenting Author: Pilar Valdecantos, PhD

2:30 p.m.-2:45 p.m.

301-OR Synergistic Effects of Dapagliflozin and Tirzepatide Combination Treatment on Weight Loss and Glucose Regulation in Diet-Induced Obese Animals

Presenting Author: Mohamed Abu-Farha, PhD

2:45 p.m.-3:00 p.m.

302-OR The Anti-myostatin Antibody SRK-439 Promotes Healthy Body Composition in Combination with GLP-1RAs in a Mouse Model of Obesity

Presenting Author: Melissa A. Fulham, PhD

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR07-1.5

Novel Modulators of Adipose Tissue Function and Adiposity

Room: W304 A-D

Chair: Kevin Y. Lee, PhD

1:30 p.m.-1:45 p.m.

303-OR Notch Signaling Inhibitor ADPO-002 Promotes Browning in Human Adipose Tissue Explants

Presenting Author: Muhammad Raisul Abedin, PhD

1:45 p.m.-2:00 p.m.

304-OR The Obesity-Related Natriuretic Handicap Involves the Coordinated Regulation of Multiple Genes in Adipose Tissue to Blunt Natriuretic Peptide Signaling

Presenting Author: Ryan P. Ceddia, PhD

2:00 p.m.-2:15 p.m.

305-OR Adipose Tissue Perilipin 1 Insulin Responsiveness in Obesity

Presenting Author: Kelli Lytle, PhD

2:15 p.m.-2:30 p.m.

306-OR Diet-Induced Hyperlipidation of Adiponectin Contributes to Adiponectin Dysfunction

Presenting Author: Maia Smith, BS

2:30 p.m.-2:45 p.m.

307-OR Defective G-CSF in the Secretome of Epicardial Adipose Cells Favors Apoptosis and Cellular Stress of Cardiac Progenitor Cells in Human Obesity

Presenting Author: Francesco Giorgino, MD, PhD

308-OR WITHDRAWN

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

ePoster Theater

Theme Area: Clinical Diabetes/Therapeutics

Session Number: ePoster11

(*) Type 2 Diabetes—Prevention, Treatment, and Technology

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Sara Stafford, BSc, MDCM

() Continuing Education Credit Is Not Awarded for this Session.*

1:30 p.m.-1:40 p.m.

1856-LB Efficacy and Safety of Mazdutide in Chinese Participants with Overweight or Obesity (GLORY-1)

Presenting Author: Qingyang Ma

1:40 p.m.-1:50 p.m.

1862-LB Glucagon-Like Peptide 1 Receptor Agonists and the Risk of Suicide and Self-Harm among Patients with Type 2 Diabetes

Presenting Author: Samantha B. Shapiro, MSc

1:50 p.m.-2:00 p.m.

1904-LB Glycemic Improvement with Use of the Omnipod 5 Automated Insulin Delivery System in Adults with Type 2 Diabetes—Results of the SECURE-T2D Pivotal Trial

Presenting Author: Lindsey Conroy, PhD

2:00 p.m.-2:10 p.m.

1907-LB Estimating Optimal CGM Wear Time for Individuals with Type 2 Diabetes Not on Insulin

Presenting Author: Souptik Barua, PhD

2:10 p.m.-2:20 p.m.

1927-LB Impact of Continuous Glucose Monitoring Use on Hospitalizations in People with Type 2 Diabetes—Real-World Analysis

Presenting Author: Christopher Parkin

2:20 p.m.-2:30 p.m.

1930-LB A Randomized Trial of Real-Time Continuous Glucose Monitoring (RT-CGM) with Culturally Tailored Education for Latino Patients with Type 2 Diabetes (DM)

Presenting Author: Nicole Marie Ehrhardt, MD

(continued on next page)

84th SCIENTIFIC SESSIONS PROGRAM

2:30 p.m.-2:40 p.m.

1932-LB Cost-Effectiveness of the National Diabetes Prevention Program—A Real-World, Two-Year Prospective Study

Presenting Author: Shihchen Kuo, RPh, PhD

2:40 p.m.-2:50 p.m.

2071-LB Reduced Risk of Obesity-Related Cancers with Real-World Weight Loss

Presenting Author: Kenda Alkwatli, MD

SUNDAY, JUNE 23, 2024

1:30 p.m.-3:00 p.m.
(continued)

ePoster Theater

Theme Area: Epidemiology/Genetics

Session Number: ePoster12

(*) Growing Older with Diabetes

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Naveed Sattar, MD, PhD

() Continuing Education Credit Is Not Awarded for this Session.*

1:30 p.m.-1:40 p.m.

1252-P Markers of Alzheimer's Disease (AD) in Young Adults with Type 1 Diabetes, With and Without Diabetic Retinopathy (DR)

Presenting Author: Meghan E. Pauley, DO

1:40 p.m.-1:50 p.m.

1253-P Differential Risk of Dementia in Older Adults with Diabetes by Race/Ethnicity, Gender, and Age—Health and Retirement Study 1992–2020

Presenting Author: Aprill Z. Dawson, PhD

1:50 p.m.-2:00 p.m.

1254-P Association between Hemoglobin A1c, Time in Range, and Dementia in Veterans with Diabetes Mellitus

Presenting Author: Patricia C. Underwood, PhD, NP

2:00 p.m.-2:10 p.m.

1255-P Sulfonylurea Prescription in Elderly Patients with Diabetes Survey Using Real World Data in Japan

Presenting Author: Masaya Sakamoto, MD, PhD

2:10 p.m.-2:20 p.m.

1256-P Studying Mortality in Patients with Diabetes over 75 Years

Presenting Author: Sakiho Koide

2:20 p.m.-2:30 p.m.

1367-P Cognitive Assessment in Type 2 Diabetes—A Pilot Study in an Outpatient Clinic

Presenting Author: Roger Chen, MB BS, FRACP, PhD

2:30 p.m.-2:40 p.m.

1368-P Early-Life Adversity, Indicated by Difference between Observed and Genetically Predicted Height, and Risks of Diabetes and 48 Related Diseases

Presenting Author: Yanbo Zhang, PhD

2:40 p.m.-2:50 p.m.

1378-P The Association between Baseline Hemoglobin A1c (A1C) and Risk of Progression from Prediabetes to Diabetes across Adult Age Groups

Presenting Author: Ghazal S. Fazli, MPH, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:00 p.m.

Kelly West Award for Outstanding Achievement in Epidemiology Lecture *(Includes Livestream)*

Lessons Learnt from Epidemiology of Diabetes in South Asians—The Kelly West Lecture 2024

Viswanathan Mohan, MD, PhD, DSc, FRCP, FNA, FACE, MACP, FRSE

Room: W320 (Chapin Theater)

3:15 p.m.-4:15 p.m.

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY16-1

The Future of Diabetes Nutrition Interventions—Innovation in Practice *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Chair: Barbara Eichorst, MS, RD, CDCES

3:15 p.m.-3:35 p.m. *Nutrition Education and Food Security Resource for American Indians and Alaska Natives—A Multilevel Intervention to Improve Type 2 Diabetes Outcomes*

Sarah A. Stotz, PhD, MS, RDN, CDCES

3:35 p.m.-3:55 p.m. *Produce Prescription as Intervention Method for Achieving Sustainable Impact on Individual and Community*

Elise Mitchell, MS, MPH

3:55 p.m.-4:15 p.m. *Gamification of Nutrition Interventions throughout the Lifespan*

Grace E. Shearrer, PhD

Panel

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-PN10-1

Educating Clinicians in the Latest Inpatient Management Strategies from Both Sides of the Pond

Room: W311

Chair: Jane Jeffrie Seley, DNP, MPH, MSN, GNP, BC-ADM, CDCES, FADCES

3:15 p.m.-3:35 p.m. *The United Kingdom Perspective*

Ketan Dhatariya, MBBS, MSc, MD, MS, FRCP, PhD

3:35 p.m.-3:55 p.m. *The United States Perspective*

Rodolfo J. Galindo, MD

3:55 p.m.-4:15 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:00 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR01-1

Lower Extremity Complications with Systemic Effects

Room: W206

Chair: Ryan T. Crews, PhD, CCRP

309-OR WITHDRAWN

3:15 p.m.-3:30 p.m.

310-OR Bacteremia and Endocarditis Complicating Moderate and Severe Diabetic Foot Infections

Presenting Author: Mario C. Reyes, DPM

3:30 p.m.-3:45 p.m.

311-OR High Transepidermal Water Loss (TEWL) Associates with Failure to Maintain Wound Closure in Diabetic Foot Ulcers

Presenting Author: Brian M. Schmidt, DPM

3:45 p.m.-4:00 p.m.

312-OR OPAT Is Protective of Major Amputation following Hospitalization for Diabetic Foot Infection

Presenting Author: Arthur Tarricone, DPM, MPH

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR05-1

Physiologic Responses to Hypoglycemia—New Insights

Room: W207

Chair: David A. Baidal, MD

3:15 p.m.-3:30 p.m.

313-OR Metoclopramide Improves Hypoglycemic Counterregulation in Diabetic Rats

Presenting Author: Micah H. Devore, BSc

3:30 p.m.-3:45 p.m.

314-OR A Randomized Study of a GPR119 Agonist on Glucagon Counterregulation during Hypoglycemia in Type 1 Diabetes Mellitus (T1DM)

Presenting Author: Richard E. Pratley, MD

3:45 p.m.-4:00 p.m.

315-OR Task-Induced Alterations in the Salience Network amongst Patients with Type 1 Diabetes

Presenting Author: Elizabeth Sanchez Rangel, MD

4:00 p.m.-4:15 p.m.

316-OR Interoception Predicts Impaired Awareness of Hypoglycemia (IAH) in Adults with Type 1 Diabetes (T1D)

Presenting Author: Austin M. Matus, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR12-1

Diabetic Kidney Disease (Includes Livestream)

Room: W307

Chair: Jennifer A. Schaub, MD

3:15 p.m.-3:30 p.m.

317-OR Identification of Genetic Regulators of Circulating Biomarkers of Kidney Decline in Diabetes

Presenting Author: Marcus G. Pezzolesi, PhD, MPH

3:30 p.m.-3:45 p.m.

318-OR Podocyte-Specific Expression of REDD1 Promotes Altered Glomerular Pathology and Renal Function Deficits in a Rodent Model of Diabetic Nephropathy

Presenting Author: Siddarth Sunilkumar, PhD

3:45 p.m.-4:00 p.m.

319-OR Renoprotective Effects of Glucagon and Incretin Agonist Combinations Mediated by Macula Densa Cells

Presenting Author: Georgina Gyarmati, MD, PhD, MPH

4:00 p.m.-4:15 p.m.

320-OR Pyruvate Kinase M2 (PKM2) Activation in the Podocyte Prevented Subset Differentiation of Glomerular Cells Induced by Diabetes

Presenting Author: Jialin Fu, MD, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Acute and Chronic Complications

Session Number: AC-OR16-1

Insights into Diabetic Retinopathy—From Molecular Characterization to Therapeutic Considerations

Room: W208

Chair: Mohamed Elmasry, MD, PhD

3:15 p.m.-3:30 p.m.

321-OR Haptoglobin (Hp) Levels and Phenotype Are Unrelated to Severe Retinopathy in Type 2 Diabetes, but Lower Hp Reductions by Fenofibrate Are Associated with Greater Retinopathy Benefit—A FIELD Trial Study

Presenting Author: Kwok Leung Ong, PhD

3:30 p.m.-3:45 p.m.

322-OR Delaying Progression of Diabetic Retinopathy Worsens the Risk for Age-Related Macular Degeneration

Presenting Author: Ward Fickweiler, MD, PhD

3:45 p.m.-4:00 p.m.

323-OR Genetic Basis of Diabetic Macular Edema and Proliferative Diabetic Retinopathy—Insights from Next Generation Sequencing in the DRGen Study

Presenting Author: Sampath Rangasamy, PhD

4:00 p.m.-4:15 p.m.

324-OR Characterization of Aqueous Retinol Binding Protein 3 Concentrations and Diabetic Retinopathy Progression in Type 1 and Type 2 Diabetes

Presenting Author: Tanvi Choksi, BS

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-OR09-1

Clinical Contributions in Type 1 Diabetes and Exercise

Room: W314

Chair: Jane E. Yardley, PhD

3:15 p.m.-3:30 p.m.

- 325-OR Enhancing Physical Activity Engagement among Individuals with Type 1 Diabetes—Exploring Perceived Barriers in the Era of New Technologies**
Presenting Author: Capucine Guédet, MSc

3:30 p.m.-3:45 p.m.

- 326-OR Activity Feature Attenuates Drop in Glucose for Individuals with Type 1 Diabetes Using Omnipod 5 Automated Insulin Delivery System**
Presenting Author: Lauren V. Turner, MSc

3:45 p.m.-4:00 p.m.

- 327-OR Does Exercise in Cool Water Result in a Greater Decrease in Blood Glucose Concentration than Exercise in Thermoneutral Water or on Land in People with Type 1 Diabetes?**
Presenting Author: Kristina Abramoff, BS (Hons), PhD Candidate

4:00 p.m.-4:15 p.m.

- 328-OR Hypoglycemia Associated with Physical Activity in Automated Insulin Delivery Users—Frequency and Prevention Strategies**
Presenting Author: Valerie Boudreau, RD, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR19-1

New Insights and Treatments in Management of Youth with Type 1 Diabetes Mellitus

Room: W315

Chair: Laura M. Nally, MD

3:15 p.m.-3:30 p.m.

329-OR Dynamics of Treatment Regimens and Glycemic Outcomes in >100,000 Children from International Pediatric Diabetes Registries

Presenting Author: Anthony Zimmermann, MBBS, FRACP

3:30 p.m.-3:45 p.m.

330-OR Narrow Variation of Glucose Inflection Points (IPs) during Progression to Type 1 Diabetes (T1D) Stratified by Demographic and Genetic Differences in Autoantibody-Positive (Ab+) Individuals

Presenting Author: Heba M. Ismail, MB, BCh, PhD

3:45 p.m.-4:00 p.m.

331-OR Clinical and Immunologic Features Differ in Children at Type 1 Diabetes Onset by Ethnicity

Presenting Author: Kagan E. Karakus, MD

4:00 p.m.-4:15 p.m.

332-OR Multiomic Profiling of Extended Honeymoon Unveils New Therapeutic Targets

Presenting Author: Cristian Loretelli, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-OR06-1

Preclinical/Clinical Efforts for Beta-Cell Replacement Therapy

Room: W304 A-D

Chair: David M. Harlan, MD

3:15 p.m.-3:30 p.m.

333-OR Hypoimmune Islet Cells Mediate Insulin Independence after Allogeneic Transplantation in a Fully Immunocompetent Nonhuman Primate without Immunosuppression

Presenting Author: Sonja Schrepfer, MD, PhD

3:30 p.m.-3:45 p.m.

334-OR Allogeneic Neo-Islets Reduce Insulin Need by up to 1.2 U/kg bw in Autoimmune Type 1 Diabetes Dogs over Three Years without Requiring Antirejection Drugs, Enough to Meet Human Type 1 Diabetes Mellitus Needs

Presenting Author: Anna Gooch, PhD

3:45 p.m.-4:00 p.m.

335-OR Preliminary Results of Islet Survival in a Novel Biovascular Pancreas Implanted in Primates

Presenting Author: Mehmet H. Kural, PhD

4:00 p.m.-4:15 p.m.

336-OR Females Undergoing Islet Transplantation with CNI-Based Immunosuppression May Be at Higher Risk of Renal Function Decline

Presenting Author: Alice L. J. Carr, PhD, MSci

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-OR04-1

Endgame—Oral Abstracts on Beta-Cell Apoptosis (With ADA Presidents' Select Abstract Presentation) *(Includes Livestream)*

Room: W414

Chair: Danielle Dean, PhD

3:15 p.m.-3:30 p.m.

337-OR ADA Presidents' Select Abstract: The LonP1 Protease Maintains Pancreatic β -Cell Survival by Governing Mitochondrial Protein Folding

Presenting Author: Jin Li, PhD

3:30 p.m.-3:45 p.m.

338-OR Regulation of Pancreatic Beta-Cell Survival and Function during Aging

Presenting Author: Jimin Park, PhD

3:45 p.m.-4:00 p.m.

339-OR Enhanced Expression of Zinc Finger Protein 385D Leads to Type 2 Diabetes Phenotype in Human Beta Cells

Presenting Author: Geming Lu, MD

4:00 p.m.-4:15 p.m.

340-OR Transcriptional Activation in Beta Cells during ER Stress Linking iPLA2 β with NF κ B

Presenting Author: Sasanka Ramanadham, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR03-1

Novel Pathways in Metabolic Regulation

Room: W304 E-H

Chair: Mark A. Herman, MD

341-OR WITHDRAWN

3:15 p.m.-3:30 p.m.

342-OR Systemic Identification of Functionally Conserved lncRNA Metabolic Regulators between Humans and Mice

Presenting Author: Chengfei Jiang, PhD

3:30 p.m.-3:45 p.m.

343-OR Identifying Nogo-B Receptor as a Resilience Factor in Preventing Obesity Associated Type 2 Diabetes

Presenting Author: Qing Miao, PhD

3:45 p.m.-4:00 p.m.

344-OR The MOTS-c/CK2 Pathway Is a Novel Molecular Target for Type 2 Diabetes in East Asians

Presenting Author: Hiroshi Kumagai, PhD

SUNDAY, JUNE 23, 2024

3:15 p.m.-4:15 p.m.
(continued)

Oral Presentations

Theme Area: Obesity/Integrated Physiology

Session Number: IP-OR09-1

Risk Factors Reimagined—Beyond Obesity in Metabolic Risk

Room: W308

Chair: Mary-Elizabeth Patti, MD

3:15 p.m.-3:30 p.m.

345-OR Beyond Size Matters—The Impact of Pancreatic Volume and Pancreatic Fat on Type 2 Diabetes

Presenting Author: Hajime Yamazaki, MD, PhD

3:30 p.m.-3:45 p.m.

346-OR Hypothalamic Gliosis Is Associated with CVD Risk Factors in the Framingham Heart Study (FHS)

Presenting Author: Justin Lo, MS

3:45 p.m.-4:00 p.m.

347-OR Plasma Lipidome in People with Insulin-Sensitive and Insulin-Resistant Obesity

Presenting Author: Max C. Petersen, MD, PhD

4:00 p.m.-4:15 p.m.

348-OR Multiancestry Whole Genome Sequencing (WGS) Meta-analysis to Identify Loci Associated with Imaging-Measured Hepatic Steatosis

Presenting Author: Nicholette Allred, PhD

SUNDAY, JUNE 23, 2024

4:30 p.m.-6:00 p.m.

Panel

Theme Area: Acute and Chronic Complications

Session Number: AC-PN04-1.5

Diabetic Foot Disparities—Treatment With and Without a Multidisciplinary Team

Room: W208

Chair: Amanda L. Killeen, DPM, FACPM, CWSP, FFPM RCPS (Glasg)

4:30 p.m.-4:50 p.m. *How It Looks When It Works—Multidisciplinary Team Approach to Diabetic Foot Infection*

Peter A. Crisologo, DPM, FFPM, RCPS (Glasg)

4:50 p.m.-5:10 p.m. *Practicing as an Island—When a Multidisciplinary Team Isn't Available*
Vilayvanh Saysoukha, DPM

5:10 p.m.-5:30 p.m. *From Home to Hospital—A Paramedic's Perspective on the Diabetic Foot*
Andrew J. Torres, NRP, CP

5:30 p.m.-6:00 p.m. *Question and Discussion Period*

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY03-1.5

Survey Says—Psychosocial Screening Tools and Their Psychometric Properties for Youth and Adults with Diabetes

Room: W314

Chair: Marisa E. Hilliard, PhD

4:30 p.m.-5:00 p.m. *Screening Tools for Executive Function*
Jessie J. Wong, PhD

5:00 p.m.-5:30 p.m. *Screening Tools for Depression*
Jeffrey S. Gonzalez, PhD

5:30 p.m.-6:00 p.m. *Screening Tools for Anxiety Disorders*
Holly K. O'Donnell, PhD

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY12-1.5

Mind the Gap—Health Benefits of Exercise in Women With or at Risk for Diabetes (Includes Livestream)

Room: W307

Chair: Lia Bally, MD, PhD

4:30 p.m.-4:55 p.m. *Exercise and Health in Women with Diabetes through the Lifespan*
Cuilin Zhang, MD, PhD

4:55 p.m.-5:20 p.m. *Exercise for the Prevention/Management of Type 2 Diabetes in Breast Cancer Survivors*
Sam Orange, PhD

5:20 p.m.-5:45 p.m. *Mechanism Underlying the Benefits of Maternal Exercise on Offspring Health*

Laurie Goodyear, PhD

5:45 p.m.-6:00 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

4:30 p.m.-6:00 p.m.
(continued)

Debate

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-DB05-1.5

Keeping Up with Hollywood—Who Should Be Prioritized for New Antiobesity Medications?

Room: W308

Chair: Caroline K. Kramer, MD, PhD

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|---------------------|---|
| 4:30 p.m.-4:40 p.m. | <i>The Person Who Has Already Benefited from the Medication</i>
Deborah Horn, DO, MPH, MFOMA |
| 4:40 p.m.-4:50 p.m. | <i>The Person with Overweight and Cardiovascular Disease</i>
Pam R. Taub, MD, FACC, FASPC |
| 4:50 p.m.-5:00 p.m. | <i>The Person with Class 3 Obesity and No Comorbidities</i>
Neda Rasouli, MD |
| 5:00 p.m.-5:05 p.m. | <i>Rebuttal</i>
Deborah Horn, DO, MPH, MFOMA |
| 5:05 p.m.-5:10 p.m. | <i>Rebuttal</i>
Pam R. Taub, MD, FACC, FASPC |
| 5:10 p.m.-5:15 p.m. | <i>Rebuttal</i>
Neda Rasouli, MD |
| 5:15 p.m.-5:30 p.m. | <i>The Health Economics Perspective</i>
William H. Herman, MD, MPH |
| 5:30 p.m.-6:00 p.m. | <i>Question and Discussion Period</i> |

Panel

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-PN17-1.5

Prioritizing Diversity in Clinical Trials

Room: W315

Chair: Viral N. Shah, MD

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| 4:30 p.m.-4:50 p.m. | <i>Lack of Equitable Representation in Clinical Trials Compounds Disparities</i>
Nana-Hawa Yayah Jones, MD |
| 4:50 p.m.-5:10 p.m. | <i>The Importance of Diversity from the Regulatory Perspective</i>
Dolly Misra, MD |
| 5:10 p.m.-5:30 p.m. | <i>Equitable Science Is Good Science—The Importance of Diversity from the PI's Perspective</i>
Ananta Addala, DO, MPH |
| 5:30 p.m.-5:50 p.m. | <i>The Importance of Diversity from the Advocacy Perspective</i>
Kyle Banks |
| 5:50 p.m.-6:00 p.m. | <i>Question and Discussion Period</i> |

5:50 p.m.-6:00 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

4:30 p.m.-6:00 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY38-1.5

Joint ADA/PAHO Symposium—Latin America and the Caribbean Regional Approach to Prevent and Control Diabetes

Room: W304 E-H

Chair: Anselm Hennis, MD, PhD, FRCP, FACP

Alternate Chair: Silvana Luciani, MD

4:30 p.m.-4:50 p.m. *The Growing Burden of Diabetes in Latin America and the Caribbean*
Anselm Hennis, MD, PhD, FRCP, FACP

4:50 p.m.-5:10 p.m. *Mexico's Experience to Address Obesity and Improve Diabetes Control*
Ruy López Ridauro, MD, PhD

5:10 p.m.-5:30 p.m. *Improving Diabetes Care in Jamaica*
Tamu Davidson, MD, MPH

5:30 p.m.-6:00 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY42-1.5

**THE STEP-HFpEF and STEP-HFpEF-DM Trials—Targeting Obesity to Treat Heart Failure
(Includes Livestream)**

Room: W320 (Chapin Theater)

Chair: Naveed Sattar, MD, PhD

4:30 p.m.-4:45 p.m. *STEP-HFpEF and STEP-HFpEF-DM Trials—Why and What?*
Mikhail N. Kosiborod, MD

4:45 p.m.-5:00 p.m. *STEP-HFpEF-DM—A Deep Dive into the Metabolic Outcomes*
Melanie J. Davies, CBE, MB, ChB, MD, FRCP, FRCGP, FMedSci

5:00 p.m.-5:15 p.m. *Does Weight Reduction Modulate Heart Failure Benefit? Insights from STEP-HFpEF*
Primary Speaker: TBD

5:15 p.m.-5:30 p.m. *Clinical Implications of the STEP-HFpEF Program and Defining the Next Steps Forward*

Subodh Verma, MD, PhD, FRCSC

5:30 p.m.-5:45 p.m. *Discussant*
Vanita R. Aroda, MD

5:45 p.m.-6:00 p.m. *Question and Discussion Period*

SUNDAY, JUNE 23, 2024

4:30 p.m.-6:00 p.m.
(continued)

Symposium

Theme Area: Epidemiology/Genetics

Session Number: EG-SY03-1.5

Big P, Little P—Diabetes Policies for Public Health

Room: W207

Chair: Gabriel Q. Shaibi, PhD

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| 4:30 p.m.-4:50 p.m. | <i>Global Policies for Diabetes Prevention—Successful Policies and Proposed Action Plans</i>
Jennifer Manne-Goehler, MD, ScD |
| 4:50 p.m.-5:10 p.m. | <i>Medicaid Expansion (or Lack Thereof) and Diabetes Health Outcomes</i>
Primary Speaker: TBD |
| 5:10 p.m.-5:30 p.m. | <i>State-Level Policies That Promote Diabetes Prevention and Successful Disease Management</i>
Matthew J. O'Brien, MD, MSc |
| 5:30 p.m.-5:50 p.m. | <i>Working to Prevent Diabetes—Workplace Policies in Canada That Promote Health</i>
Diana Sherifali, PhD, RN, CDE |
| 5:50 p.m.-6:00 p.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-SY07-1.5

Long-Term Goals and Challenges for Beta-Cell Replacement Therapy (Includes Livestream)

Room: W414

Chair: Edward Phelps, PhD

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| 4:30 p.m.-4:50 p.m. | <i>Sites for Delivery</i>
Melanie L. Graham, PhD, MPH |
| 4:50 p.m.-5:10 p.m. | <i>Porcine/Xeno Approaches</i>
David K.C. Cooper, MB, MD, PhD |
| 5:10 p.m.-5:30 p.m. | <i>Induction of Long-Term Tolerance</i>
Norma Sue Kenyon, PhD |
| 5:30 p.m.-5:50 p.m. | <i>Role for Basic Science/Animal Models</i>
Eckhard Wolf, PhD |
| 5:50 p.m.-6:00 p.m. | <i>Question and Discussion Period</i> |

SUNDAY, JUNE 23, 2024

4:30 p.m.-6:00 p.m.
(continued)

Symposium

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-SY05-1.5

Lipid Regulation of Mitochondrial Metabolism

Room: W304 A-D

Chair: Meilian Liu, PhD

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| 4:30 p.m.-4:45 p.m. | <i>Mitochondrial Phospholipid Metabolism</i>
Katsu Funai, PhD |
| 4:45 p.m.-5:00 p.m. | <i>Structure/Function of Regulators of Lipid Droplet Formation</i>
Michael Airola, PhD |
| 5:00 p.m.-5:15 p.m. | <i>Mitochondrial Dynamics and Function</i>
Erin Seifert, PhD |
| 5:15 p.m.-5:30 p.m. | <i>Mitochondria Association with Lipid Droplets—Regulation and Function</i>
Orlan Shiriha, MD, PhD |
| 5:30 p.m.-6:00 p.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY02-1.5

Weight-Reducing Mechanisms of GLP-1-Based Therapies—New Insights from Animal Studies
(Includes Livestream)

Room: W415B (Valencia Ballroom)

Chair: Zhiping Pang, PhD

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| 4:30 p.m.-4:50 p.m. | <i>Novel Insights into Regulation of Energy Metabolism by GIPR Agonism and GIPR—GLP-1R Coagonism</i>
Timo D. Müller, PhD |
| 4:50 p.m.-5:10 p.m. | <i>Systemically-Administered GLP-1 Receptor Agonists vs. Brain-Derived GLP-1—Does It Matter for Weight-Reducing Therapy?</i>
Stefan Trapp, PhD |
| 5:10 p.m.-5:30 p.m. | <i>Unraveling the Distributed Neural Circuits Underlying Food Intake and Body Weight Effects of GLP-1 and Its Analogues</i>
Karolina P Skibicka, PhD |
| 5:30 p.m.-5:50 p.m. | <i>Strategies for Mitigating Nausea and Emesis Side Effects of GLP-1R Agonism</i>
Tito Borner, PhD |
| 5:50 p.m.-6:00 p.m. | <i>Question and Discussion Period</i> |

SUNDAY, JUNE 23, 2024

4:30 p.m.-6:00 p.m.
(continued)

Oral Presentations

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-OR03-1.5

Beta-Cell Blueprints—Oral Abstracts on Islet Development and Postnatal Growth

Room: W206

Chair: Ronadip R. Banerjee, MD, PhD

4:30p.m.-4:45 p.m.

349-OR Reduction of RNA-Editing Enzyme ADAR1 in Human Islets Triggers an Interferon Response and Impairs Beta-Cell Function

Presenting Author: Chunhua Dai, MD

4:45 p.m.-5:00 p.m.

350-OR Parturition Event Regulates Endocrine Genesis during Pancreas Differentiation

Presenting Author: Akena Suzuki, Master's Degree

5:00 p.m.-5:15 p.m.

351-OR Role of Mef2a in Beta-Cell Differentiation and Function during ER Stress

Presenting Author: Rohit B. Sharma, PhD

5:15 p.m.-5:30 p.m.

352-OR Selective Loss of the Spliced Form of Xbp1 Causes Early-Onset Diabetes in Male but Not Female Mice

Presenting Author: Yingfeng Deng, PhD

5:30 p.m.-5:45 p.m.

353-OR Chd3 Helicase Modulates Pancreatic β -Cell Function in Absence of Chd4

Presenting Author: Sukrati Kanojia, MS

5:45 p.m.-6:00 p.m.

354-OR The Role of Clc-Like Chloride Channel 1 in the Pancreatic Beta Cell

Presenting Author: Yaohuan Zhang, Bachelor's Degree

MONDAY, JUNE 24, 2024

Scientific Sessions
8:00 a.m.-9:30 a.m.

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY15-1.5

A Means to an Endpoint—Establishing Meaningful Outcomes in Clinical Neuropathy Trials

Room: W206

Chair: Lynn Ang, MD

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| 8:00 a.m.-8:20 a.m. | <i>Epidemiology Overview of Diabetic Neuropathy</i>
Barbara H. Braffett, PhD, MS |
| 8:20 a.m.-8:40 a.m. | <i>Meaningful Endpoints in Clinical Trials—Lessons Learned</i>
Rodica Busui, MD, PhD |
| 8:40 a.m.-9:00 a.m. | <i>Perspectives on Small-Fiber Endpoints</i>
Bruce A. Perkins, MD, MPH, FRCP(C) |
| 9:00 a.m.-9:30 a.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY08-1.5

Innovative Programs That Take on the Challenge of Hard-to-Reach Populations (Includes Livestream)

Room: W415B (Valencia Ballroom)

Chair: Veronica J. Brady, PhD, MSN, BSN

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| 8:00 a.m.-8:30 a.m. | <i>Delivering Diabetes Self-Management Education in the Wild West</i>
Deb Bjorsness, MPH, BC-ADM, RD, CDCES |
| 8:30 a.m.-9:00 a.m. | <i>Delivering Diabetes Self-Management Support in the Diabetes Belt</i>
Windsor W. Sherrill, PhD, MHA, MBA |
| 9:00 a.m.-9:30 a.m. | <i>Delivering Diabetes Prevention and Self-Management Support in Latino Communities in the Rockies</i>
Rocio I. Pereira, MD |

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY03-1.5

Myth Busters on “Category X” Drugs in Pregnancy—Evidence for Stopping Commonly Used Medications during Pregnancy, Preconception, and Lactation (Includes Livestream)

Room: W414

Chair: Carol J. Levy, MD, CDCES

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| 8:00 a.m.-8:20 a.m. | <i>Pharmacology Overview—Which Types of Medications Are Most Likely to Cause Problems in Pregnancy?</i>
Jason G. Umans, MD, PhD |
| 8:20 a.m.-8:40 a.m. | <i>Lipid-Lowering Drugs—The Good, The Bad, and The Not That Ugly</i>
Ira J. Goldberg, MD |
| 8:40 a.m.-9:00 a.m. | <i>GLP-1 Receptor Agonists—How Should We Counsel Our Patients?</i>
Maisa N. Feghali, MD, MSCR |
| 9:00 a.m.-9:20 a.m. | <i>ACE Inhibitors and ARBs—Timing Is Everything</i>
Jessica S. Tangren, MD |
| 9:20 a.m.-9:30 a.m. | <i>Question and Discussion Period</i> |

MONDAY, JUNE 24, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY21-1.5

Cost and Quality—Improving Diabetes Care and the Cost of Ongoing Inequities

Room: W311

Chair: Celeste Thomas, MD

- 8:00 a.m.-8:20 a.m. *Virtual Peer Groups in Adolescents and Young Adults with Type 1 Diabetes*
Jennifer Raymond, MD, MCR
- 8:20 a.m.-8:40 a.m. *Improving Diabetes Outcomes and Reducing Inequities through
Collaboration—Perspective from the T1D Exchange*
Osagie Ebekozien, MD, MPH, CPHQ
- 8:40 a.m.-9:00 a.m. Insurance Coverage, Medical Costs and Productivity Loss among Working
Age Adults with Diabetes
Primary Speaker: TBD
- 9:00 a.m.-9:20 a.m. *Disparities in Diabetes Prevalence and Management*
Saria Hassan, MD, MPH
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY22-1.5

Towards Innovative and Equitable Care in Youth-Onset Type 2 Diabetes

Room: W315

Chair: Sheela N. Magge, MD, MSCE

- 8:00 a.m.-8:20 a.m. *Advances in Pathophysiology and Novel Treatments in Youth-Onset
Type 2 Diabetes*
Stephanie T. Chung, MBBS
- 8:20 a.m.-8:40 a.m. *Diabetes Care Technology Use and Barriers in Youth-Onset Type 2
Diabetes*
Laya Ekhlaspour, MD
- 8:40 a.m.-9:00 a.m. *The Genetics of Youth-Onset Type 2 Diabetes—Where Are We and What
Lies Ahead?*
Jennifer N. Todd, MD
- 9:00 a.m.-9:20 a.m. *New Insights into Pathophysiology and Screening of Early Microvascular
Complications in Youth-Onset Type 2 Diabetes*
Risa M. Wolf, MD
- 9:20 a.m.-9:30 a.m. *Question and Discussion Period*

MONDAY, JUNE 24, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY39-1.5

ADA Symposium—Major Advances and Discoveries in Diabetes—The Year in Review *(Includes Livestream)*

Room: W415C (Valencia Ballroom)

Chair: Alice Y.Y. Cheng, MD, FRCPC

8:00 a.m.-8:20 a.m.	<i>Clinical</i> Vanita R. Aroda, MD
8:20 a.m.-8:40 a.m.	<i>Translational</i> Mary-Elizabeth Patti, MD
8:40 a.m.-9:00 a.m.	<i>Basic</i> Bruce Verchere, PhD
9:00 a.m.-9:30 a.m.	<i>Question and Discussion Period</i>

Symposium

Theme Area: Epidemiology/Genetics

Session Number: EG-SY07-1.5

Omics to Understand Genome-Wide Association Study—What's the Mechanism?

Room: W207

Chair: H. Efsun Arda, PhD

8:00 a.m.-8:30 a.m.	<i>Genome-Wide Association Study—From Variant to Function</i> Debora Sobreira, PhD
8:30 a.m.-9:00 a.m.	<i>Genome-Wide Association Study Functional Follow-up at a Single Locus</i> Nicole Krentz, PhD
9:00 a.m.-9:30 a.m.	<i>Leveraging Omics in the Study of Type 2 Diabetes in Underrepresented Populations</i> Ayo P. Doumatey, PhD

Symposium

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-SY01-1.5

Cross Talk between Beta Cells and Immune Cells

Room: W304 A-D

Chair: Laura M. Jacobsen, MD

8:00 a.m.-8:20 a.m.	<i>Mining Spatial Transcriptomics for Beta-Cell—Immune-Cell Cross Talk</i> Miguel Medina-Serpas, BS
8:20 a.m.-8:40 a.m.	<i>Profiling Islet—Immune Cell Interactions in the Human Pancreas</i> Klaus H. Kaestner, PhD, MS
8:40 a.m.-9:00 a.m.	<i>Imaging Beta-Cell—Immune-Cell Interactions</i> Dirk Homann, MD
9:00 a.m.-9:20 a.m.	<i>What Do Immune Cells See in the Pancreas?</i> Eddie A. James, PhD
9:20 a.m.-9:30 a.m.	<i>Question and Discussion Period</i>

MONDAY, JUNE 24, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-SY06-1.5

Molecular Integration of Amino Acid and Fat Metabolism in Health and Metabolic Disease

Room: W304 E-H

Chair: Richard Kibbey, IV, MD, PhD

8:00 a.m.-8:15 a.m. *Amino Acid Metabolism and Brown Fat Activation*

Shingo Kajimura, PhD

8:15 a.m.-8:30 a.m. *Amino Acid Signaling and Glucose Regulation*

Phillip J. White, PhD

8:30 a.m.-8:45 a.m. *Mitochondrial Branched-Chain Amino Acid Oxidation and Metabolism*

Kelsey Fisher-Wellman, PhD

8:45 a.m.-9:00 a.m. *Pleiotropic Effects of Exercise on Amino Acid and Fat Metabolism in Metabolic Disease*

Kristin I. Stanford, PhD

9:00 a.m.-9:30 a.m. *Question and Discussion Period*

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY03-1.5

Metabolism and Aging-Related Diseases

Room: W308

Chair: Liangyou Rui, PhD

8:00 a.m.-8:20 a.m. *LRP1 Is a Major Link between Obesity, Memory, and Neurodegenerative Disease*

Young-Bum Kim, PhD

8:20 a.m.-8:40 a.m. *Caloric Restriction and Aging in Nonhuman Primates*

Ricki Colman, PhD

8:40 a.m.-9:00 a.m. *Skeletal Aging, the Role of Cellular Senescence in Aging and Endocrine Disease*

Joshua N. Farr, PhD

9:00 a.m.-9:20 a.m. *Aging-Dependent Regulatory Cells Emerge in Subcutaneous Fat to Inhibit Adipogenesis*

Hei Sook Sul, PhD

9:20 a.m.-9:30 a.m. *Question and Discussion Period*

MONDAY, JUNE 24, 2024

8:00 a.m.-9:30 a.m.
(continued)

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY04-1.5

Beyond the Scale—Exploring Causes and Consequences of Weight Fluctuation *(Includes Livestream)*

Room: W307

Chair: Siegfried Ussar, PhD

8:00 a.m.-8:30 a.m. *Immune Cell Memory and Weight Cycling*
Heather Caslin, PhD

8:30 a.m.-9:00 a.m. *Signs of Antiaging in Lifestyle Interventions*
Iris Shai, PhD

9:00 a.m.-9:30 a.m. *Nutrient Uptake and Metabolism during Weight Loss*
Marcus DaSilva Goncalves, MD, PhD

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY50-1.5

Consensus Monitoring Guidance in Early-Stage Type 1 Diabetes *(Includes Livestream)*

Room: W320 (Chapin Theater)

Co-Chairs: Anastasia Albanese-O'Neill, PhD, APRN, CDCES and Chantal Mathieu, MD, PhD

8:00 a.m.-8:10 a.m. *Why Do We Need Monitoring Guidance?*
Moshe Phillip, MD

8:10 a.m.-8:20 a.m. *Coming to Consensus*
Linda DiMeglio, MPH, MD

8:20 a.m.-8:35 a.m. *Overview of Pediatric Advice*
Kurt J. Griffin, PhD, MD

8:35 a.m.-8:50 a.m. *Overview of Adult Advice*
Rifka C. Schulman-Rosenbaum, MD, FACE, FACP

8:50 a.m.-9:10 a.m. *Psychosocial and Educational Considerations*
Brigitte Frohnert, MD, PhD

9:10 a.m.-9:20 a.m. *Next Steps and Real World Applications*
Sanjoy Dutta, PhD

9:20 a.m.-9:30 a.m. *Panel Discussion*

MONDAY, JUNE 24, 2024

8:00 a.m.-9:30 a.m.
(continued)

Oral Presentations

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-OR15-1.5

New Technology—Continuous Glucose Monitoring

Room: W314

Chair: Ebne Rafi, PharmD

8:00 a.m.-8:15 a.m.

355-OR Glycemic Outcomes with CGM Use in Patients with Type 2 Diabetes—Real World Analysis

Presenting Author: Satish K. Garg, MD

8:15 a.m.-8:30 a.m.

356-OR A Randomized Controlled Trial Using Continuous Glucose Monitoring (CGM) to Guide Food Choices and Diabetes Self-Care in People with Type 2 Diabetes Not Taking Insulin

Presenting Author: Thomas W. Martens, MD

8:30 a.m.-8:45 a.m.

357-OR Association between Continuous Glucose Monitoring and Diabetes-Related Complications in Children with Type 1 Diabetes—Nationwide Cohort Study

Presenting Author: Ji Yoon Kim, MD, MS

8:45 a.m.-9:00 a.m.

358-OR Remote CGM Monitoring in People with Type 2 Diabetes (T2D) in an Under-resourced Setting

Presenting Author: Valerie F. Ruelas, MSW

9:00 a.m.-9:15 a.m.

359-OR CGM in Primary Care—Practice Characteristics and Choice of CGM Implementation Strategy in PREPARE 4 CGM

Presenting Author: Sean Oser, MD, MPH

9:15 a.m.-9:30 a.m.

360-OR Defining New Targets for Interventions to Increase Continuous Glucose Monitoring (CGM) Use in Primary Care

Presenting Author: Jovan Milosavljevic, MD

MONDAY, JUNE 24, 2024

9:45 a.m.-11:15 a.m.

Outstanding Scientific Achievement Award Lecture *(Includes Livestream)*

Insulin and Instructions—How the Epigenome Directs Diabetes
Stephen C.J. Parker, PhD

and

Banting Medal for Scientific Achievement Award Lecture *(Includes Livestream)*

The Science of Diabetes and A Life of Trials
Rury R. Holman MBChB, FRCP(Lond.), FMedSci

Room: West Hall B3-4 (General Session)

11:30 a.m.-12:30 p.m.

Professional Interest Group

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-IG01-1

Discussion on Diabetes Technology—Enhancing Clinic Efficiency through the Integration of Diabetes Technologies

Room: W304 A-D

Chair: Viral N. Shah, MD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:45 a.m. *Overview of Currently Available Technologies and Downloading Platforms*
Laya Ekhlaspour, MD

11:45 a.m.-11:55 a.m. *Outpatient Clinic Flow for Efficient Work Order*
Halis K. Akturk, MD

11:55 a.m.-12:05 p.m. *Efficient Workflow for Inpatient Technology Use*
Estelle M. Everett, MD, MHS

12:05 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-IG04-1

Discussion on Health Care Delivery and Quality Improvement

Room: W304 E-H

Chair: Francisco J. Pasquel, MD, MPH

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:55 a.m. *An Algorithm for Preoperative Management of Diabetes in Elective Surgery Patients*

Ketan Dhatariya, MBBS, MSc, MD, MS, FRCP, PhD

11:55 a.m.-12:15 p.m. *Designing a Program for Preoperative Management of Diabetes*
Rajesh K. Garg, MD

12:15 p.m.-12:30 p.m. *Question and Discussion*

MONDAY, JUNE 24, 2024

11:30 a.m.-12:30 p.m.
(continued)

Professional Interest Group

Theme Area: Epidemiology/Genetics

Session Number: EG-IG01-1

Discussion on Public Health and Epidemiology—Kids Are Not Little Adults—Challenges and Opportunities in the Use of Pharmacotherapy for Youth With and at Risk for Type 2 Diabetes

Room: W207

Chair: Noël C. Barengo, MD, PhD, MPH

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:55 a.m. *Role of Antiobesity Pharmacotherapy in Youth With and At Risk for Type 2 Diabetes*

Megan Oberle Bensignor, MD, MSHP

11:55 a.m.-12:15 p.m. *Moving Beyond Insulin and Metformin—Learning from Adult Experience to Improve Care for Youth with Type 2 Diabetes*

Mary Ellen Vajravelu, MD, MSHP

12:15 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Interest Group

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-IG01-1

Discussion on Immunology/Beta-Cell Replacement—Beta-Cell Stressors, Autoantigen Targets, and How This Provokes Immune Attack

Room: W206

Chair: Meaghan Stumpf, MD

11:30 a.m.-11:35 a.m. *Introduction*

11:35 a.m.-11:50 a.m. *Dissecting the Autoimmune T-Cell Repertoires in Type 1 Diabetes*

Alok Joglekar, PhD

11:50 a.m.-12:05 p.m. *Beta-Cell Adaptive Stress Response and Immune System Cross Talk in Diabetes*

Amelia K. Linnemann, PhD

12:05 p.m.-12:20 p.m. *Stress-Induced Pathways in Beta Cells Increase Immune Perception of Pancreatic Islets—Implications for Type 1 Diabetes*

Aisha Callebaut, PhD

12:20 p.m.-12:30 p.m. *Question and Discussion Period*

Professional Development

Theme Area: Professional Development

Session Number: PD-03-1

Negotiations (Includes Livestream)

Room: W307

Chair: Jane E.B. Reusch, MD

11:30 a.m.-12:10 p.m. *Getting The Career You Envision—How To Negotiate For What You Need (And Want)*

Judith G. Regensteiner, PhD

12:10 p.m.-12:30 p.m. *Question and Discussion Period*

MONDAY, JUNE 24, 2024

11:30 a.m.-12:30 p.m.
(continued)

ePoster Theater

Theme Area: *Behavioral Medicine, Clinical Nutrition, Education, and Exercise*

Session Number: ePoster13

(*) Tailoring Diabetes Self-Management Education to Improve Success

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Helen A. Habib, PharmD, BCACP, CDCES

(*) Continuing Education Credit Is Not Awarded for this Session.

11:30 a.m.-11:40 a.m.

- 533-P Geospatial Analysis of a Diabetes Management Program—Program Participation and Social Determinants of Health**
Presenting Author: Samantha Kanny, MS

11:40 a.m.-11:50 a.m.

- 534-P Structured CGM Education Delivered via Mobile Phone Is Associated with Increased Time in Range—Proof-of-Concept Study Results**
Presenting Author: Melissa P. Holloway, BA, MSt

11:50 a.m.-12:00 p.m.

- 535-P Success of Interactive, Online, Case-Based Education Related to Use of CGM for Type 2 Diabetes**
Presenting Author: Amy Larkin, PharmD

12:00 p.m.-12:10 p.m.

- 536-P Characteristics of People with Type 2 Diabetes Based on the Extended Parallel Processing Model (EPPM)**
Presenting Author: Jianli Hu, MD, PhD

12:10 p.m.-12:20 p.m.

- 537-P Community-Based Diabetes Management—Evaluating the Efficacy of Do Right! Diabetes Challenge**
Presenting Author: Nithya S. Trichy, BS

MONDAY, JUNE 24, 2024

11:30 a.m.-12:30 p.m.
(continued)

ePoster Theater

Theme Area: *Obesity/Integrated Physiology*

Session Number: ePoster14

(*) Research Advances in Metabolic Regulation

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Daisy Duan, MD

() Continuing Education Credit Is Not Awarded for this Session.*

11:30 a.m.-11:40 a.m.

1523-P Anorexia Induced by the Central Action of Fibroblast Growth Factor 1 (FGF1) Is Dependent on Activation of Parabrachial CGRP Neurons

Presenting Author: Jarrad M. Scarlett, MD, PhD

11:40 a.m.-11:50 a.m.

1524-P Estradiol's Net, Sweet or Not—Estradiol Actions on Amygdalar Perineuronal Nets Regulate Blood Glucose in Male and Female

Presenting Author: Nan Zhang, MD

11:50 a.m.-12:00 p.m.

1601-P Regulation of Circadian Rhythmicity of Human Adipose Tissue in Obesity

Presenting Author: Kelli Lytle, PhD

12:00 p.m.-12:10 p.m.

1602-P Exercise Training Reverses Skeletal Muscle DRP1 Hyperactivation and Improves Respiratory Capacity in Patients with Type 2 Diabetes

Presenting Author: Elizabeth C. Heintz, MS, BS

12:10 a.m.-12:20 p.m.

1603-P The Cardiovascular Impact of Appropriately-Timed Prandial Insulin in Type 1 Diabetes—A Randomized Crossover Study

Presenting Author: William B. Horton, MD, MSc, FACP

MONDAY, JUNE 24, 2024

12:30 p.m.-1:30 p.m.

ePoster Theater

Theme Area: *Clinical Diabetes/Therapeutics*

Session Number: ePoster15

(*) Creative Strategies for Care Improvement

Room: Exhibit Hall (West A1-A3) ePoster Theater A

Moderator: Jessica L. Harding, PhD

(*) Continuing Education Credit Is Not Awarded for this Session.

12:30 p.m.-12:40 p.m.

1060-P MOMs—Improved Glycemic Control and Diabetes Self-Management for Underserved Pregnant Patients

Presenting Author: Courtney U. Cart, MSW, MPH

12:40 p.m.-12:50 p.m.

1061-P Interdisciplinary Approach to Outpatient Diabetes Management with Pharmacist-Led Interventions

Presenting Author: John Woodley, DO

12:50 p.m.-1:00 p.m.

1062-P Peer Coaching Reduces Medication Barriers in African American Patients with Comorbid Diabetes and Hypertension—Results from the SEC Study

Presenting Author: Doyle M. Cummings, PharmD

1:00 p.m.-1:10 p.m.

1063-P A Carbohydrate-Restricted Intervention and Continuous Remote Care Improves Health Outcomes across All Socioeconomic Groups at Two Years

Presenting Author: Brittanie M. Volk, PhD, RD

1:10 p.m.-1:20 p.m.

1064-P Order Set Design and "Nudges" to Change Care in Diabetes—Towards a Novel Pragmatic Clinical Trial Design

Presenting Author: James Flory, MD, MSCE

MONDAY, JUNE 24, 2024

12:30 p.m.-1:30 p.m.

ePoster Theater

Theme Area: Islet Biology/Insulin Secretion

Session Number: ePoster16

(*) Hepatocytes, Adipocytes, Beta cells, Oh My!

Room: Exhibit Hall (West A1-A3) ePoster Theater B

Moderator: Erin E. Mulvihill, PhD

() Continuing Education Credit Is Not Awarded for this Session.*

12:30 p.m.-12:40 p.m.

1796-LB Adipocyte-Derived Extracellular Vesicles (AdEVs) Contribute to Insulin Resistance and Atherosclerosis in Obesity

Presenting Author: Xilal Y. Rima, PhD

12:40 p.m.-12:50 p.m.

1960-LB A 3D Analysis of CD8+ Leukocytic Infiltration in Human Endocrine and Exocrine Pancreas at Type 1 Diabetes Onset

Presenting Author: Alexandra Rippa, PhD

12:50 p.m.-1:00 p.m.

2036-LB Identification of a Hepatocyte Subpopulation That Simultaneously Expresses Gluconeogenic and Lipogenic Genes in the Fed State

Presenting Author: Junichi Okada, MD, PhD

1:00 p.m.-1:10 p.m.

2087-LB Novel Human Islet Spheroid Models of Type 1 Diabetes

Presenting Author: Burcak Yesildag, PhD

1:10 a.m.-1:20 p.m.

2089-LB An Adult Clock Component Links Circadian Rhythms to Pancreatic β -Cell Maturation

Presenting Author: Juan R. Alvarez, PhD

MONDAY, JUNE 24, 2024

12:30 p.m.-1:30 p.m.

Session Break

(Take this opportunity to visit the Exhibit and Poster Halls)

1:30 p.m.-3:00 p.m.

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY06-1.5

Demystifying Impaired Awareness of Hypoglycemia—Diagnosis, Experience, and Treatment in the Real World

Room: W207

Chair: Alexandria Ratzki-Leewing, PhD

1:30 p.m.-2:00 p.m. *Impaired Awareness of Hypoglycemia—Screening and Diagnosis in Clinical Practice*

Scott J. Pilla, MD, MHS

2:00 p.m.-2:30 p.m. *Evidence-Based Interventions to Restore Awareness of Hypoglycemia*
Jeremy Pettus, MD

2:30 p.m.-3:00 p.m. *Living with Impaired Awareness of Hypoglycemia—What People Living with Diabetes Wish You Knew*
Eva Kathmann, PhD

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY09-1.5

How Diabetes Technology Is Changing Diabetes Care in the Real World

Room: W311

Chair: Michelle D. Stancil, MS, BSN, RN, CDCES

1:30 p.m.-2:00 p.m. *Don't Say No to Continuous Glucose Monitors in Primary Care*
Caitlin Nass, MSN, CRNP

2:00 p.m.-2:30 p.m. *Implementation of Remote Patient Monitoring in Rural Settings—Barriers and Facilitators*
Emily E. Johnson, PhD

2:30 p.m.-3:00 p.m. *How Connected Insulin Pens and Caps Are Facilitating Precision Insulin Management*
Janice MacLeod, MA, RD, CDCES, FADCES

MONDAY, JUNE 24, 2024

1:30 p.m.-3:00 p.m.
(continued)

Symposium

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-SY17-1.5

Nutrition and Diabetes Self-Management Education and Support (DSMES)

Room: W415C (Valencia Ballroom)

Chair: Barbara Eichorst, MS, RD, CDCES

1:30 p.m.-2:00 p.m. *Collaborations between Providers and DCEs—Bringing Standards of Care Alive*

Louis H. Philipson, MD, PhD, FACP

Amy Hess-Fischl, MS, RDN, LDN, BC-ADM, CDCES

2:00 p.m.-2:15 p.m. *Integrating Therapeutic Education into Obesity Interventions*

Zoltan Pataky, MD

2:15 p.m.-2:30 p.m. *Culturally Sensitive Conversations When Approaching Nutrition Changes*

Victoria Bouhairie, MD, DipACLM

2:30 p.m.-2:45 p.m. *Integrating Multidisciplinary Team in Diabetes Management—Germany Perspective*

Peter E.H. Schwarz, PhD

2:45 p.m.-3:00 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY07-1.5

Impact of Precision Medicine on Diabetes

Room: W314

Chair: Anna L. Gloyn, DPhil

1:30 p.m.-2:00 p.m. *How Is Precision Medicine Changing the Paradigm in Type 1 Diabetes?*

Chantal Mathieu, MD, PhD

2:00 p.m.-2:30 p.m. *How Is Precision Medicine Changing the Paradigm in Type 2 Diabetes?*

Jose C. Florez, MD, PhD

2:30 p.m.-3:00 p.m. *How Is Precision Medicine Changing the Paradigm in Monogenic Diabetes?*

Rochelle N. Naylor, MD

MONDAY, JUNE 24, 2024

1:30 p.m.-3:00 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY20-1.5

Just Do It—Incorporating What We Know into What We Do

Room: W315

Chair: Amisha Wallia, MD, MS

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|---------------------|---|
| 1:30 p.m.-1:50 p.m. | <i>EHR-Based Tools to Overcome Therapeutic Inertia and Improve Health Equity in Diabetes Technology Prescriptions</i>
Brittany S. Bruggeman, MD |
| 1:50 p.m.-2:10 p.m. | <i>REALITY Check—Preventing Diabetes in the “Real World”—Early Findings of the Real-World Effectiveness of Interventions of the Type 2 Diabetes Mellitus Prevention Network</i>
Tannaz Moin, MD, MBA, MSHS |
| 2:10 p.m.-2:30 p.m. | <i>The Michigan Collaborative for Type 2 Diabetes</i>
Lauren Oshman, MD, MPH |
| 2:30 p.m.-2:50 p.m. | <i>Screening for Type 1 Diabetes—From Evidence</i>
Laura M. Jacobsen, MD |
| 2:50 p.m.-3:00 p.m. | <i>Question and Discussion Period</i> |

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY26-1.5

ADA Diabetes Care/Diabetes/Diabetologia Symposium—The Heterogeneity of Type 1 Diabetes—Pathogenesis, Treatment, and Prevention (Includes Livestream)

Room: W320 (Chapin Theater)

Co-Chairs: Hindrik Mulder, MD, PhD and David A. D'Alessio, MD

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|---------------------|--|
| 1:30 p.m.-1:45 p.m. | <i>Beta-Cell Pathology in Type 1 Diabetes—Immune, Inflammatory, Functional</i>
Primary Speaker: TBD |
| 1:45 p.m.-2:00 p.m. | <i>Insulin Replacement in Type 1 Diabetes—Needles, Pumps, and Islets</i>
Primary Speaker: TBD |
| 2:00 p.m.-2:15 p.m. | <i>The Emerging Spectrum of Strategies to Prevent Type 1 Diabetes</i>
Primary Speaker: TBD |
| 2:15 p.m.-3:00 p.m. | <i>Question and Discussion Period</i> |

MONDAY, JUNE 24, 2024

1:30 p.m.-3:00 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY28-1.5

Lancet Journal Symposium—Time for a Paradigm Shift? Should We Treat Early Gestational Diabetes Mellitus?

Room: W304 E-H

Co-Chairs: Jessamy Bagenal, MBBS and David Simmons, MA, MBBS, FRACP, FRCP, MD (Cantab)

1:30 p.m.-1:50 p.m. *Epidemiology of Early Gestational Diabetes Mellitus*

Hannah Wesley, BDS, MPH

1:50 p.m.-2:10 p.m. *Pathophysiology of Early Gestational Diabetes Mellitus*

Marie-France Hivert, MD, MMSc

2:10 p.m.-2:30 p.m. *How Should We Diagnose Early Gestational Diabetes Mellitus?*

Arianne Sweeting, MBBS, PhD

2:30 p.m.-2:50 p.m. *Further Considerations for the Early Diagnosis of Gestational Diabetes Mellitus*

Patrick Catalano, MD

2:50 p.m.-3:00 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY41-1.5

The First Dedicated Kidney Outcome Trial with a GLP-1 Receptor Agonist—Once-Weekly Semaglutide and the FLOW Trial Results *(Includes Livestream)*

Room: W415B (Valencia Ballroom)

Co-Chairs: Richard E. Pratley, MD and Vlado Perkovic, MBBS, PhD, FRACP, FASN, FAHMS

1:30 p.m.-1:40 p.m. *Current Treatment Strategies, Unmet Medical Need, FLOW Rationale*

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

1:40 p.m.-2:00 p.m. *FLOW Trial Design and Baseline Characteristics, Glycemic Control, and Body Weight*

Richard E. Pratley, MD

2:00 p.m.-2:10 p.m. *FLOW Kidney Outcomes*

Vlado Perkovic, MBBS, PhD, FRACP, FASN, FAHMS

2:10 p.m.-2:20 p.m. *FLOW CV Outcomes*

Kenneth W. Mahaffey, MD, PhD

2:20 p.m.-2:30 p.m. *FLOW Safety*

Johannes F.E. Mann, MD

2:30 p.m.-2:40 p.m. *FLOW Results—Summary and Perspective*

Peter Rossing, MD, DMSc

2:40 p.m.-3:00 p.m. *FLOW Results—Independent Commentary*

Sylvia Rosas, MD, MSCE

MONDAY, JUNE 24, 2024

1:30 p.m.-3:00 p.m.
(continued)

Panel

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-PN03-1.5

Modulating Cytokines—Mechanisms Underlying Type 1 Diabetes Treatment *(Includes Livestream)*

Room: W414

Chair: Cate Speake, PhD

1:30 p.m.-1:55 p.m. *How Does Baricitinib Block Type 1 Diabetes Progression?*
Michaela Waibel, PhD

1:55 p.m.-2:20 p.m. *How Does IL-2 Treatment Prevent Type 1 Diabetes Progression?*
Ricardo Ferreira, PhD

2:20 p.m.-2:45 p.m. *How Does Ustekinumab Prevent Type 1 Diabetes Progression?*
Stephanie Hanna, PhD

2:45 p.m.-3:00 p.m. *Question and Discussion Period*

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY05-1.5

Mitochondria as a Therapeutic Target for Diabetes

Room: W308

Chair: Irena A. Rebalka, PhD

1:30 p.m.-2:00 p.m. *Harnessing Amino Acid Metabolism for Diabetic Therapy*
Esther Phielix, PhD

2:00 p.m.-2:30 p.m. *Targeting Mitochondria via Probiotics to Restore Microbiota Health in Type 2 Diabetes*
Primary Speaker: TBD

2:30 p.m.-3:00 p.m. *Exercise and Skeletal Muscle Mitochondrial Adaptations in Type 1 Diabetes*
Dean Minnock, PhD

Symposium

Theme Area: Obesity/Integrated Physiology

Session Number: IP-SY10-1.5

Food Noise Explained—Satiety Responsiveness and Motivation Processing in the Brain
(Includes Livestream)

Room: W307

Chair: TBD

1:30 p.m.-2:00 p.m. *Genetic and Environmental Influences on Satiety and Food Motivation in Obesity*
Susan Carnell, PhD

2:00 p.m.-2:30 p.m. *Gut-Brain Signaling Underlying Motivational Behavior*
Ivan de Araujo, DPhil

2:30 p.m.-3:00 p.m. *Effect of Behavioral Weight Loss on Satiety and Food Motivation*
Ellen Schur, MD, MS

MONDAY, JUNE 24, 2024

1:30 p.m.-3:00 p.m.
(continued)

Panel

Theme Area: Islet Biology/Insulin Secretion

Session Number: IB-PN04-1.5

Are We Using the Right Tools to Establish Causality in Islet Function and Dysfunction?

Room: W206

Chair: Alejandro Caicedo, PhD

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| 1:30 p.m.-1:45 p.m. | <i>Transgenic Mouse Models Can Be Used to Study In Vivo Beta-Cell Biology</i>
Jennifer L. Estall, PhD |
| 1:45 p.m.-2:00 p.m. | <i>Human Samples Are Really Needed Given Differences in Rodent and Human Physiology</i>
Katie C. Coate, PhD |
| 2:00 p.m.-2:15 p.m. | <i>Large Omics Data Sets Allow for Key Insights into Beta-Cell Biology</i>
Kyle J. Gaulton, PhD |
| 2:15 p.m.-2:30 p.m. | <i>A New Open Resource for the Islet Community—Towards Causality by Connecting -Omics and Function</i>
Patrick MacDonald, PhD |
| 2:30 p.m.-2:45 p.m. | <i>New Models Are Needed for Optimal Testing of Beta-Cell Biology</i>
Rayner Rodriguez Diaz, PhD |
| 2:45 p.m.-3:00 p.m. | <i>Question and Discussion Period</i> |

MONDAY, JUNE 24, 2024

1:30 p.m.-3:00 p.m.
(continued)

Oral Presentations

Theme Area: Insulin Action/Molecular Metabolism

Session Number: IA-OR04-1.5

Revvng Up the Adipose to Impact Insulin Sensitivity and Glucose Homeostasis

Room: W304 A-D

Chair: Mary Teruel, PhD

1:30 p.m.-1:45 p.m.

361-OR A Multiomics Approach to Identify Genes Important for the Regulation of Antidiabetic and Anti-inflammatory Lipids

Presenting Author: Anna Santoro, PharmD, PhD

1:45 p.m.-2:00 p.m.

362-OR Divergent Roles of METTL14-Mediated m6A in Regulating Brown and White Adipose Tissue Transcriptomes and Systemic Metabolism

Presenting Author: Ling Xiao, PhD

2:00 p.m.-2:15 p.m.

363-OR Matrix Metalloprotease-2 as a Novel Regulator of Glucose Utilization by Adipocytes and High-Fat Diet-Induced Glucose Intolerance

Presenting Author: Melissa D. Lempicki, BS

2:15 p.m.-2:30 p.m.

364-OR Beta-Cell SF1 as a Thermogenic Regulator against Diet-Induced Obesity in Mice—Elucidating Its Role in Islet-Adipose Cross Talk

Presenting Author: Yan Guo, Doctor

2:30 p.m.-2:45 p.m.

365-OR Maladaptive Sensory Plasticity via $\alpha 2\delta 1$ -subunit Promotes Adipose Tissue Lipolysis after Spinal Cord Injury

Presenting Author: Debasish Roy, PhD

MONDAY, JUNE 24, 2024

3:15 p.m.-4:15 p.m.

Symposium

Theme Area: Acute and Chronic Complications

Session Number: AC-SY11-1

Cardiovascular Disease Risk Prediction in Obesity and Type 2 Diabetes—Emerging Tools for the Clinician

Room: W206

Chair: Darren K. McGuire, MD, MHSc, FAHA, FACC, FESC

3:15 p.m.-3:35 p.m. *High-Risk Cardiovascular Disease Phenotypes in Obesity—Beyond Body Mass Index*

Marie-Eve Piché, MD, PhD, FRCPC, FAHA

3:35 p.m.-3:55 p.m. *Predicting Risk for Heart Failure in Type 2 Diabetes—Insights from the TRS-HFDM and WATCH-DM Risk Scores*

Ambarish Pandey, MD, MSCS

3:55 p.m.-4:15 p.m. *Predicting Risk for Atherosclerotic Cardiovascular Disease in Type 2 Diabetes—Insights from SCORE2-Diabetes Risk Score*

Caroline J. Magri, MD, MRCP(UK), FEFIM, MPhil, MSc(Brighton), PhD

Ask the Expert

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-AE04-1

The Highs and Lows of Cannabis Use in Diabetes—Behavioral and Psychosocial Considerations

Room: W314

Chair: Elizabeth A. Beverly, PhD

3:15 p.m.-3:35 p.m. *The Highs and Lows of Cannabis Use in Diabetes—Overview and Landscape of Use*

Jay H. Shubrook, DO

3:35 p.m.-3:55 p.m. *The Highs and Lows of Cannabis Use in Diabetes—Associations between CBD, THC, or CBD+THC Use vs. Nonuse on Insulin Sensitivity, Inflammation, and Behavior*

Angela Bryan, PhD

3:55 p.m.-4:15 p.m. *The Highs and Lows of Cannabis Use in Diabetes—Behavioral and Psychosocial Considerations*

Halis K. Akturk, MD

Panel

Theme Area: Behavioral Medicine, Clinical Nutrition, Education, and Exercise

Session Number: BM-PN11-1

Are We Close to Closing the Loop? Automated Insulin Delivery during Exercise

Room: W415C (Valencia Ballroom)

Chair: Michael C. Riddell, PhD

3:15 p.m.-4:15 p.m. *Are We Close to Closing the Loop? Automated Insulin Delivery during Exercise*

Rémi Rabasa-Lhoret, MD, PhD

Aude Bandini, PhD

Chiara Dalla Man, PhD

Dale Morrison, PhD

MONDAY, JUNE 24, 2024

3:15 p.m.-4:15 p.m.
(continued)

Debate

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-DB04-1

Early Abnormal Glucose Metabolism in Pregnancy—To Treat or Not to Treat

Room: W311

Chair: Erin S. LeBlanc, MD, MPH

3:15 p.m.-3:35 p.m. *PRO—Early Abnormal Glucose Metabolism in Pregnancy SHOULD Be Treated*

David Simmons, MA, MBBS, FRACP, FRCP, MD (Cantab)

3:35 p.m.-3:55p.m. *CON—Early Abnormal Glucose Metabolism in Pregnancy SHOULD NOT Be Treated*

Lorie M. Harper, MD, MSCI

3:55 p.m.-4:00 p.m. *Rebuttal*

David Simmons, MA, MBBS, FRACP, FRCP, MD (Cantab)

4:00 p.m.-4:05 p.m. *Rebuttal*

Lorie M. Harper, MD, MSCI

4:05 p.m.-4:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY25-1

Improving Culture of Quality in Pediatric Centers—Lessons from the Type 1 Diabetes Exchange Quality Improvement Collaborative

Room: W315

Chair: Eda Cengiz, MD, MHS

3:15 p.m.-3:35 p.m. *Increasing Insulin Pump Utilization in Public-Insured Patients*

Anna Cymbaluk, MD

3:35 p.m.-3:55 p.m. *Current Approaches to Addressing Racial Equity—Insights from the T1D Exchange Q1 Collaborative*

Trevon Wright, MHA

3:55 p.m.-4:15 p.m. *Data-Driven Predictions to Determine High-Risk Patients with Type 1 Diabetes*

Mark A. Clements, MD, PhD

MONDAY, JUNE 24, 2024

3:15 p.m.-4:15 p.m.
(continued)

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY47-1

Use of SGLT2i in Youth with Type 1 Diabetes—Results from ATTEMPT (The Adolescent Type 1 Diabetes Treatment with SGLT2i for hyperglycEMia & hyPerfiltration Trial) *(Includes Livestream)*

Room: W414

Chair: Peter A. Senior, MBBS, PhD

3:15 p.m.-3:30 p.m. *Rationale for SGLT2i Adjunctive Therapy in Youth with Type 1 Diabetes*
Petter Bjornstad, MD

3:30 p.m.-3:50 p.m. *ATTEMPT Study—Renal and Glycemic Outcomes*
Farid H. Mahmud, MD

3:50 p.m.-4:00 p.m. *ATTEMPT Study—Patient Perspectives of SGLT2i For Diabetes Management*
Samantha Anthony, PhD, MSW, RSW

4:00 p.m.-4:10 p.m. *ATTEMPT Study Commentary—SGLT2i in Youth with Type 1 Diabetes*
Jennifer L. Sherr, MD, PhD

4:10 p.m.-4:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY48-1

Prevalence of Hypercortisolism in Difficult-to-Control Type 2 Diabetes

Room: W415B (Valencia Ballroom)

Chair: Rodica Busui, MD, PhD

3:15 p.m.-3:25 p.m. *The Spectrum of Hypercortisolism—An Evolution of Understanding*
Richard Auchus, MD, PhD

3:25 p.m.-3:35 p.m. *Pathologic Mechanisms of Hypercortisolism in Type 2 Diabetes*
Ralph A. DeFronzo, MD

3:35 p.m.-3:45 p.m. *Rationale for and Design of the CATALYST Trial*
Athena Philis-Tsimikas, MD

3:45 p.m.-3:55 p.m. *Results of the CATALYST Trial Part 1*
Vivian Fonseca, MD

3:55 p.m.-4:05 p.m. *Clinical Implications of the CATALYST Trial Part 1*
John B. Buse, MD, PhD

4:05 p.m.-4:15 p.m. *Question and Discussion Period*

MONDAY, JUNE 24, 2024

3:15 p.m.-4:15 p.m.
(continued)

Symposium

Theme Area: Epidemiology/Genetics

Session Number: EG-SY06-1

Diabetes Genetic Convergence—Shared Networks of Rare and Common Variants

Room: W207

Chair: Melina Claussnitzer, PhD

- 3:15 p.m.-3:35 p.m. *Diabetes Genetic Convergence—Rare to Common Variants in Networks*
Kashyap A. Patel, MRCP, PhD
- 3:35 p.m.-3:55 p.m. *Single Cell Transcriptomics, Networks, Genetic Convergence, HNF1A*
Yan Li, PhD
- 3:55 p.m.-4:15 p.m. *Genetic Convergence in Rare and Common Diabetes (HNF1A and RFX6),
MPRA*
Adelaide Tovar, PhD

Debate

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-DB02-1

Do Immune or Beta Cells Drive Transition from Stage 1 to Stage 3 Type 1 Diabetes?

Room: W304 A-D

Chair: Alberto Pugliese, MD

- 3:15 p.m.-3:30 p.m. *Type 1 Diabetes Progression Is Precipitated by Immune Cells*
Jamie L. Felton, MD
- 3:30 p.m.-3:45 p.m. *Type 1 Diabetes Progression Is Precipitated by Beta Cells*
Edward Phelps, PhD
- 3:45 p.m.-3:50 p.m. *Rebuttal*
Jamie L. Felton, MD
- 3:50 p.m.-3:55 p.m. *Rebuttal*
Edward Phelps, PhD
- 3:55 p.m.-4:15 p.m. *Question and Discussion Period*

Symposium

Theme Area: Immunology/Beta-Cell Replacement

Session Number: IBC-SY08-1

The Future of Diabetes Care as Cell Replacement or Regeneration Therapies (Includes Livestream)

Room: W307

Chair: Mark A. Atkinson, PhD

- 3:15 p.m.-3:40 p.m. *Designing the Next Generation of Beta Cells for Stem Cell Rx*
Matthias Hebrok, PhD
- 3:40 p.m.-4:05 p.m. *Beta-Cell Regeneration Strategies*
Andrew F. Stewart, MD
- 4:05 p.m.-4:15 p.m. *Question and Discussion Period*

MONDAY, JUNE 24, 2024

3:15 p.m.-4:15 p.m.
(continued)

Panel

Theme Area: Obesity/Integrated Physiology

Session Number: IP-PN01-1

Leptin, 30 Years Later

Room: W304 E-H

Chair: Jeffrey S. Flier, MD

3:15 p.m.-4:15 p.m.	Leptin, 30 Years Later
	Martin G. Myers, Jr., MD, PhD
	Stephanie Fulton, PhD
	Philipp E. Scherer, PhD
	Rudolph L. Leibel, MD

Panel

Theme Area: Obesity/Integrated Physiology

Session Number: IP-PN09-1

**Ripple Effects after the Advent of Highly Effective Antiobesity Pharmacotherapy—
Pharmacoequity in the United States**

Room: W308

Chair: Jessica Schwartz, MD, MHS

3:15 p.m.-3:35 p.m.	<i>Principles of Pharmacoequity</i>
	Utibe Essien, MD, MPH
3:35 p.m.-3:55 p.m.	<i>Antiobesity Medication Access on the Clinical Frontlines</i>
	Kristina H. Lewis, MD, MPH, SM
3:55 p.m.-4:15 p.m.	<i>Economic and Public Policy Considerations in the United States</i>
	Alison Ward, PhD

Symposium

Theme Area: Clinical Diabetes/Therapeutics

Session Number: CT-SY46-1

**Results from a Randomized Trial of Intensive Glucose Management Using Continuous Glucose
Monitoring (CGM) Versus Usual Care in Hospitalized Adults with Type 2 Diabetes—The TIGHT
Study (Includes Livestream)**

Room: W320 (Chapin Theater)

Chair: Celia C. Low Wang, MD

3:15 p.m.-3:26 p.m.	<i>Study Background and Rationale</i>
	Boris Draznin, MD, PhD
3:26 p.m.-3:37 p.m.	<i>Study Methods</i>
	Jagdeesh Ullal, MD, MS, FACE, FACP, ECNU
3:37 p.m.-3:48 p.m.	<i>Study Results</i>
	Guillermo Umpierrez, MD, CDCES, MACP, FACE
3:48 p.m.-3:59 p.m.	<i>Discussion of Results and Conclusions</i>
	Irl B. Hirsch, MD
3:59 p.m.-4:15 p.m.	<i>Question and Discussion Period</i>

NOTES

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