Gregory P. Forlenza, MD, MS Curriculum Vitae

Biographical Sketch

Current Position

Associate Professor of Pediatrics, Barbara Davis Center, Division of Pediatric Endocrinology, Department of Pediatrics, University of Colorado Denver; Director of Pediatric Diabetes Technology Research

Professional Address

1775 Aurora CT MS A140 Aurora, CO 80045 Email: <u>gregory.forlenza@cuanschutz.edu</u> Phone: 303-724-2323 Fax: 303-724-6779

Education

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
Georgia Institute of Technology, Atlanta, GA	BS	05/2003	Chemistry
University of Florida, Gainesville, FL	MD	05/2007	Medicine
University of Florida, Gainesville, FL	Resident	06/2010	Pediatrics
University of Colorado Denver, Denver, CO	Fellow	06/2011	Pediatric Endocrinology
University of Minnesota, Minneapolis, MN	MS	06/2015	Clinical Research
University of Minnesota, Minneapolis, MN	Fellow	06/2015	Pediatric Endocrinology

Academic Appointments

- 2011-2013 Assistant Professor, Division of General Pediatrics, Department of Pediatrics, University of Florida College of Medicine, Gainesville, FL
- 2015-2021 Assistant Professor, Barbara Davis Center, Division of Pediatric Endocrinology, Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, CO
- 2021-present Associate Professor, Barbara Davis Center, Division of Pediatric Endocrinology, Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, CO Director of Pediatric Diabetes Technology Research

Honors, Special Recognitions and Awards

Research Honors, University of Florida College of Medicine 2007 2010 Outstanding Resident Teacher in Pediatrics, University of Florida College of Medicine Excellence in Customer Service Key, University of Florida College of Medicine 2012 2014 Pediatric Endocrine Society - Competitive Travel Grant Award 2014 **CAPER Pancreas Fest - Competitive Travel Grant Award** 2015 Hostetter Award for Most Outstanding Research by a Fellow – University of Minnesota Pediatric Research, Education, and Scholarship Symposium (PRESS) American Diabetes Association - Young Investigator Travel Award 2017 2019 International Society for Pediatric and Adolescent Diabetes - Young Investigator Award University of Colorado Pediatric Endocrinology Fellowship – Outstanding Faculty Teacher 2023

Membership in Professional Organizations

2010-present	American Academy of Pediatrics
2013-present	Pediatric Endocrine Society (Membership Committee 2014-2017)
2013-present	The Endocrine Society
2014-present	American Diabetes Association
2015-present	The Society for Pediatric Research (elected)
2017-present	International Society for Pediatric and Adolescent Diabetes
2019-present	Association of Diabetes Care and Education Specialists

Major Committee and Service Responsibilities

Community Se	rvice
2003-2010	Florida Camp for Children and Youth with Diabetes – Counselor
2012-2013	Florida Camp for Children and Youth with Diabetes – Supervising Physician
2013-2015	Camp Needlepoint for Adolescents with Diabetes – Supervising Physician
2017-present	Camp Colorado Diabetes Camp – Senior Medical Staff Physician
<u>Departmental</u>	
2017-present	Clinical Care Task Force, Barbara Davis Center - Member
2017-2023	Empowering Patients for Individualized Care (EPIC) Conference – Co-Chair for organizing committee
2019-2021	Barbara Davis Center Grand Rounds and Morbidity and Mortality Conference organizing chair
2021-present	Barbara Davis Center Pediatric Research Committee – Member
2023-present	Practical Ways to Achieve Targets in Diabetes Care (ATDC) Keystone Conference – Organizing Committee Member
Liniversity	
<u>University</u> 2012-2013	Pediatric Obesity Center of Excellence Development Committee, University of Florida -
2012-2013	Member
2013-2015	Chronic Pancreatitis Working Group, University of Minnesota – Member
2021-present	Clinical Translational Research Advisory Committee – BDC Representative
<u>Hospital</u>	
2013-2015	Acute Care Diabetes Advisory Committee, University of Minnesota Hospitals – Member
2018-2020	Insulin Safety Committee, Children's Hospital Colorado – Artificial Pancreas Advisor
2018-present	Multidisciplinary Pancreatitis Working Group, Children's Hospital Colorado – Founding Member
<u>State</u>	
2016-present	Colorado Kids with Diabetes Consensus School Guidelines for Diabetes Therapy –
	Diabetes Technology Advisor
National	
2014-2017	Pediatric Endocrine Society Membership Committee – Member
2017	The Endocrine Society Pediatric Therapeutic Continuous Glucose Monitoring Task Force – Committee Member

2019-present	American Diabetes Association Annual Scientific Sessions Pediatric Diabetes content committee - member
2020	IDEA 2.0 American Association of Clinical Endocrinologists CGM Education Committee – Pediatric CGM content advisor
2021-present	AADE National Coverage Determination for Insulin Pumps and CGMs Advisory Committee – Member and Pediatric Advisor
2023	ISPAD Annual Scientific Sessions Planning Committee - Member

Licensure and Board Certification

Medical Licenses

2010-present Colorado Medical License

Board Certification

2010	American Board of Pediatrics, General Pediatrics
2017	American Board of Pediatrics, Pediatric Endocrinology

Review and Referee Work

Journal Editors	hip
2020-2023	Pediatric Diabetes – Associate Editor
2023-present	Diabetes Technology and Therapeutics – Associate Editor

Journal Editorial Board

Ad hoc Manuscript Reviewer

2011-2012	American Family Physician
2011-present	Diabetes Technology and Therapeutics
2014-2015	Childhood Obesity
2015-present	Diabetes Science and Technology
2016	American Journal of Ophthalmology
2016-present	Sensors
2017-present	Diabetes Care
2017-present	Pediatric Diabetes
2017-present	PLOS One
2017-present	Lancet Diabetes and Endocrinology
2019-present	Diabetes, Obesity, and Metabolism

Invited Extramural Lectures, Presentations, and Visiting Professorships

Local

- 1. University of Florida Grand Rounds, "Multiple Manifestations of Multisystem Mitochondrial Maladies," Gainesville, FL 2010
- 2. University of Colorado Endocrinology Grand Rounds, "An Interesting Case of Polyuria," Denver, CO 2011
- Children's Diabetes Foundation Guild, "Update on Artificial Pancreas Technology 2016," Denver, CO 2016
- 4. University of Colorado Nursing Lecture Series, "Hemoglobin A1c," Denver, CO 2017

- 5. Barbara Davis Center Research in Progress, "Update on Artificial Pancreas Research," Denver, CO 2017
- 6. Colorado Optimist Club, "Diabetes Technology in 2017," Denver, CO 2017
- 7. Colorado Association of School Nurses, "An Update on Diabetes Technology: Closed Loop, PLGS, and Pumps," Denver, CO 2018
- 8. Barbara Davis Center Research in Progress, "Artificial Pancreas Research at the Barbara Davis Center Update for 2018" Denver, CO 2018
- 9. University of Colorado Endocrine Division Grand Rounds, "Diabetes Technology in 2019: The Rapidly Changing Field of Continuous Glucose Monitors and Artificial Pancreas Systems," Denver, CO 2019
- 10. Endocrine Division Educational Conference, "CGM in Non-T1D Patients," Denver, CO 2021.
- 11. Colorado School Nurse Educational Series, "Diabetes Technology Update 2021," Denver, CO 2021
- 12. Barbara Davis Center Research in Progress Series, "Optimizing Success with Hybrid Closed Loop Technology in Children with Type 1 Diabetes," Denver, CO 2021.
- 13. Colorado Springs Educational Talk, "Type 1 Diabetes Technology Update 2022," Virtual, CO, 2022.
- 14. Barbara Davis Center Grand Rounds, "Development, Testing, and Approval of Omnipod 5: From Academic Project to Real-World Use," Virtual, 2022.
- 15. Barbara Davis Center Fellowship Lecture Series, "Fellows Technology Update Summer 2022," Denver, CO, 2022.
- 16. University of Colorado Grand Rounds, "From Concept to Clinical Practice: How Technology Reduces Burden and Improves Care for Children with Type 1 Diabetes," Denver, CO, 2023

Regional

- 1. University of Minnesota PRESS Conference, "Near Euglycemia can be achieved safely in pediatric total pancreatectomy islet auto-transplant recipients using an adapted intravenous insulin infusion protocol," Minneapolis, MN 2014
- 2. University of Minnesota PRESS Conference, "Success of Artificial Pancreas Use in Patients after TPIAT," Minneapolis, MN 2015
- 3. Western Association for Vitreoretinal Education/Ocular Imaging Conference (WAVE/OIC) Meeting, "Artificial Pancreas Technology in 2013," Maui, Hawaii 2013
- 4. WAVE/OIC Meeting, "Artificial Pancreas Technology in 2015," Maui, Hawaii 2015
- 5. Pediatric Endocrinology Nursing Society, "Islet Cell Allo-Transplantation," Denver, CO 2016
- 6. Diabetes Symposium for the Medical College of Wisconsin, "Artificial Pancreas Technology in 2017: The Dawn of the Automated Insulin Delivery Paradigm," Milwaukee, WI 2017
- 7. Practical Ways to Achieve Targets in Diabetes Care Conference, "More Than 1 Year of Hybrid Closed Loop in Pediatrics," Keystone, CO, 2017.
- 8. Practical Ways to Achieve Targets in Diabetes Care Conference, "Future Artificial Pancreas Systems," Keystone, CO, 2019.
- 9. Cedars Sinai Pediatric Grand Rounds, "Use of Technology to Improve management of Pediatric Diabetes," Virtual Talk, 2021.
- 10. Georgia Chapter of AACE Regional Conference, "The Latest on CGM, Insulin Pumps, and Hybrid Closed Loop Systems," Virtual Talk, 2021.
- 11. Practical Ways to Achieve Targets in Diabetes Care Conference, "Customizable AP Systems," Virtual Talk, 2021.
- 12. Diabetes Dialog Conference, "Future of Hybrid Closed Loop Systems," Denver, CO 2021.
- 13. Diabetes Dialogue, "New and Emerging Continuous Glucose Monitors in 2022," Denver, CO, 2022.

National

- American Diabetes Association Annual Scientific Sessions, oral abstract presentation, "Inpatient Safety and Feasibility of the Tandem Predictive Low Glucose Suspend (PLGS) Insulin Pump," San Diego, CA, 2017.
- 2. American Diabetes Association Annual Scientific Sessions, oral abstract presentation, "Overnight to Early Morning Glycemic Outcomes in Children Using the MiniMed 670G System," Orlando, FL, 2018.

- American Diabetes Association Annual Scientific Sessions, invited platform presentation, "Monitoring Glycemia in Youth with Type 1 Diabetes Mellitus – Meter Blood Glucose, Continuous Glucose Monitoring, or Both?" Orlando, FL, 2018.
- 4. American Diabetes Association Annual Scientific Sessions, invited platform presentation, "Continuous Glucose Monitor Use in Hospital Settings," Chicago, IL, 2020.
- 5. Pediatric Academic Society Annual Meeting, "The Changing Role of Diabetes Providers," Virtual Talk, 2021.
- 6. Medscape Advanced Therapy for Diabetes Conference Encore, "Automated Insulin Delivery with Dexcom CGM," Virtual Talk, 2021.
- 7. American Diabetes Association Annual Scientific Sessions, invited platform presentation, "Challenges and Benefits of Technology Use in High-Risk Youth Populations," New Orleans, LA, 2022.
- American Diabetes Association Annual Scientific Sessions, invited platform presentation, "The Insulin-Only Bionic Pancreas Trial: The iLet Bionic Pancreas and Study Design," New Orleans, LA, 2022.
- 9. Endocrine Society Annual Conference, "Automated Insulin Delivery: The Future is Now," Atlanta, GA, 2022.
- 10. American Academy of Family Physicians Lecture Series, "Type 1 Diabetes Pediatric," Virtual, 2022.

International

- Advanced Technologies and Treatments for Diabetes International Conference, "Evaluation of the MiniMed 670G System Predictive Low Glucose Management Feature in Children," Vienna, Austria, 2018
- Advanced Technologies and Treatments for Diabetes International Conference, "ADVICE4U Pro Study – Decision Support Systems for Health Care Professionals: How Advisor Pro Works," Berlin, Germany, 2019
- 3. International Society for Pediatric and Adolescent Diabetes Conference, "Advice4U: Results of a Multinational Multicenter Study," Boston, MA, 2019 (*Invited*).
- 4. Advanced Technologies and Treatments for Diabetes International Conference, "Clinical Implementation and Utilization of Hybrid Closed-Loop Technology," Madrid, Spain, 2020 (*Invited*).
- 5. Advanced Technologies and Treatments for Diabetes International Conference, "Omnipod 5: Unique Features and Clinical Benefits of Tubeless Automated Insulin Delivery," Virtual Talk, 2021.
- 6. Rethinking "Candidate Selection" for Control-IQ Hybrid Closed Loop Technology, EASD Scientific Sessions, Virtual Talk, 2021.
- 7. Safety Evaluation of the Omnipod 5 Automated Insulin Delivery System over 3 Months of Use in Adults and Children with Type 1 Diabetes, EASD Scientific Sessions, Virtual Talk, 2021.
- 8. Advanced Technologies and Treatments for Diabetes International Conference, "Predicting 12-Month Success with a Second-Generation Hybrid Closed Loop (HCL) Artificial Pancreas System," Barcelona, Spain, 2022.
- 9. European Association for the Study of Diabetes, "Glycemic Outcomes over 15 Months with the Omnipod 5 Automated Insulin Delivery System," Stockholm, Sweden, 2022.
- 10. European Association for the Study of Diabetes, "Recently Diagnosed with Type 1 Diabetes: Glycemic Outcomes with the Omnipod 5 Automated Insulin Delivery System," Stockholm, Sweden, 2022.
- 11. Advanced Technologies and Treatments for Diabetes International Conference, "Real-World Data on Hybrid Closed-Loop in Type 2 Diabetes," Florence, Italy, 2024.

Teaching Record

Major Presentations

Presentations to Medical Students

1. University of Colorado Pediatric Interest Group, "What it's like working as a general pediatrician and pediatric sub-specialist," 2017

Presentations to Residents and Fellows

- 1. University of Florida Noon Conference, "Eating Related Disorders in Pediatrics," 2009
- 2. University of Florida Intern Lecture Series, "Type 1 Diabetes," 2009
- 3. University of Colorado Fellowship Lecture Series, "Update on Type 1 Diabetes Epidemiology," 2011
- 4. University of Florida Pediatric Resident Lecture Series, "Reading a Growth Chart," 2011
- 5. University of Florida Family Medicine Lecture Series, "Well Child Care Guidelines," 2011
- 6. University of Florida Family Medicine Lecture Series, "Infant Feeding Guides," 2011
- 7. University of Florida Pediatric Resident Lecture Series, "Pediatric Obesity and Type 2 Diabetes," 2012
- 8. University of Minnesota Research in Progress Series, "Artificial Pancreas in Patients after TPIAT," 2014
- 9. University of Minnesota Fellowship Lecture Series, "Drug Induced Diabetes," 2015
- 10. University of Minnesota Fellowship Lecture Series, "Progress towards an Artificial Pancreas." 2015
- 11. University of Colorado Fellowship Lecture Series, "Drug Induced Diabetes," 2016-2022
- 12. University of Colorado Fellowship Lecture Series, "Updated on Diabetes Technology," 2016-2022

Morbidity and Mortality Conferences

- 1. University of Florida Morbidity and Mortality Conference, "Postprandial hypoglycemia in Children after Nissen Fundoplication," 2009
- 2. University of Minnesota Morbidity and Mortality Conference, "An Unusual Case of Headaches: Early Presentation of Autoimmune Hypophysitis," 2015
- 3. Barbara Davis Center Morbidity and Mortality Conference, "DKA with Hypokalemia," 2017
- 4. Barbara Davis Center Morbidity and Mortality Conference, "Suicide with HCL AP," 2019
- 5. Barbara Davis Center Morbidity and Mortality Conference, "COVID-19 in the Type 1 Diabetes Population, what is the evidence showing us?" 2021

Wards and Clinic Attending Duties

Outpatient Service

- 2 half-days per week: diabetes clinic at BDC
- 2 half-days per month: telemedicine with patients in Grand Junction, CO
- 1 half-day per month: COMPLEAT Kids Multidisciplinary Pancreatitis clinic
- 1 day every other month supervise fellows' clinic for 2-3 fellows

Inpatient Service

- 6 weeks per year including 3 weekends per year: Provide consulting care to hospitalized children with type 1 diabetes and hospitalized children with hyperglycemia. See new onset T1D patients in clinic at BDC for outpatient education. Outside consulting calls from pediatricians and other hospitals.
 - Precept Pediatric Endocrinology fellows on rounds at Children's Hospital Colorado and serve as backup for overnight calls.

Other Educational Activities

- 2012-2013 University of Florida Second Year Medical Student Introductions to Pediatrics Course Director
- 2013-2015 University of Minnesota Pediatric Endocrinology Case Conferences for Medical Students – Small Group Leader and Speaker
- 2015-present University of Colorado Pediatric Endocrinology Small Groups for Second Year Medical Students Small Group Leader for growth and puberty workshops
- 2015-present University of Colorado Pediatric Endocrinology Residency Half-Day Small Group Leader

2015-present	University of Colorado Pediatric Endocrinology Fellowship Lecture Series – Present 2-3 sessions per year
2015-present	University of Colorado Pediatric Endocrinology Fellows Continuity Clinic – Precept fellows clinic 6 times per year
2019-2021	Director of the Barbara Davis Center Grand Rounds and Morbidity and Mortality conference series
2021-present	University of Colorado Clinical Trials Research Advisory Committee – BDC Representative

Trainees and Mentees

Undergraduate Students

- 1. Aria Saunders Undergraduate Biomedical Engineering Student 2019 Project: MiniMed 670G Hybrid Closed Loop Artificial Pancreas System for the Treatment of Diabetes Mellitus: Overview of Its Safety and Efficacy Role: Faculty mentor for undergraduate biomedical engineering summer research student. Publication: Saunders A, Messer LH, Forlenza GP. MiniMed 670G Hybrid Closed Loop Artificial Pancreas System for the Treatment of Type 1 Diabetes Mellitus: Overview of Its Safety and Efficacy. Expert Rev Med Devices. 2019. Epub 2019/09/22. doi: 10.1080/17434440.2019.1670639. PubMed PMID: 31540557. 2. Kasserine Taylor – Undergraduate Student 2019-2020 Project: Use of machine learning and hybrid closed loop systems at diabetes camps Role: Faculty mentor for pre-medical undergraduate student. Publication: Taylor KA, Forlenza GP. Use of Machine Learning and Hybrid Closed Loop Insulin Delivery at Diabetes Camps. Diabetes technology & therapeutics. 2020. Epub 2020/02/15. doi: 10.1089/dia.2020.0026. PubMed PMID: 32058821. 3. Carson Wedding – Undergraduate Quantitative Biology Student 2023-2024 Project: Pattern recognition in type 1 diabetes technology data Role: Faculty mentor Medical Students 1. Indira Sriram, PhD – Medical Student 2015-2018 Role: Faculty advisor to medical student 2. Marisa Sobczak – Medical Student 2021 Project: Glycemic Control in Relation to Technology Use in a Single Center Cohort of Children with Type 1 Diabetes Role: Project advisor Publication: Sawyer A, Sobczak M, Forlenza GP, Alonso GT. Glycemic Control in Relation to Technology Use in a Single Center Cohort of Children With Type 1 Diabetes. Diabetes technology & therapeutics. 2022. Epub 20220131. doi: 10.1089/dia.2021.0471. PubMed PMID: 35099306. Residents 1. Elizabeth Mann, MD – Pediatric Resident 2013-2015
- Elizabeth Mann, MD Pediatric Resident 2013-2015
 Project: QI Project. Improvements in Training for Diabetes Camp. University of Minnesota Camp
 Needlepoint
 Role: During fellowship provided mentorship to a pediatric resident with an interest in pediatric
 endocrinology on a QI project to improve training of volunteers and counselors at Camp Needlepoint.
 Indira Sriram, MD, PhD – Pediatric Resident 2019-2022
 Role: Career advisor to pediatric resident
- 4. Alexandra Sawyer, MD Pediatric Resident 2021 Project: Glycemic Control in Relation to Technology Use in a Single Center Cohort of Children with

Type 1 Diabetes

Role: Project advisor

Publiation: Sawyer A, Sobczak M, Forlenza GP, Alonso GT. Glycemic Control in Relation to Technology Use in a Single Center Cohort of Children With Type 1 Diabetes. Diabetes technology & therapeutics. 2022. Epub 20220131. doi: 10.1089/dia.2021.0471. PubMed PMID: 35099306.

5. James Schuler, MD - Pediatric Resident 2022-2025 Role: Faculty Advisor

Fellows

1. Jenna Sopfe, MD – Pediatric Heme/Onc Fellow

2015-2018 Project: Prospective and retrospective analysis of malglycemia in the pediatric bone marrow

transplant population

Role: Primary faculty mentor for Dr. Sopfe's fellowship projects and Masters of Clinical Research projects.

Publications:

- Sopfe J, Pyle L, Keating AK, Campbell K, Liu AK, Wadwa RP, Verneris MR, Giller RH, Forlenza GP. Malglycemia is associated with poor outcomes in pediatric and adolescent hematopoietic stem cell transplant patients. Blood Adv. 2019;3(3):350-9. Epub 2019/02/06. doi:

10.1182/bloodadvances.2018021014. PubMed PMID: 30718242.

- Sopfe J, Campbell K, Keating AK, Pyle L, Liu AK, Verneris MR, Giller RH, Forlenza GP. Glycemic variability is associated with poor outcomes in pediatric hematopoietic stem cell transplant patients. Pediatr Blood Cancer. 2020;67(11):e28626. Epub 2021/01/23. doi: 10.1002/pbc.28626. PubMed PMID: 33480469.

- Sopfe J, Vigers T, Pyle L, Giller RH, Forlenza GP. Safety and Accuracy of Factory Calibrated Continuous Glucose Monitoring in Pediatric Patients Undergoing Hematopoietic Stem Cell Transplantation. Diabetes technology & therapeutics. 2020. Epub 2020/02/28. doi: 10.1089/dia.2019.0521. PubMed PMID: 32105513.

2. Kalie Tommerdahl, MD – Pediatric Endocrinology fellow 2017-2020 Project: Metabolic and Renal Effects of Automated Insulin Delivery Systems in Youth with Type 1 Diabetes Mellitus.

Role: Co-faculty mentor for Dr. Tommerdahl's fellowship projects; Career Advisor Publication: Pauley ME, Tommerdahl KL, Snell-Bergeon JK, Forlenza GP. Continuous Glucose Monitor, Insulin Pump, and Automated Insulin Delivery Therapies for Type 1 Diabetes: An Update on Potential for Cardiovascular Benefits. Curr Cardiol Rep. 2022. Epub 20221024. doi: 10.1007/s11886-022-01799-x. PubMed PMID: 36279036

3. Soohee Cho, MD – Pediatric Heme/Onc Fellow 2019-2022 Project: Feasibility and Safety Study of a Hybrid Closed Loop Insulin Delivery System for Children and Young Adults with High Risk Acute Lymphoblastic Leukemia Role: Primary faculty mentor for Dr. Cho's fellowship project and Masters of Clinical Research projects. Publication: Cho S, Vigers T, Pyle L, Franklin A, Demedis J, Jeney F, Forlenza GP. Composite Metric

of Glycemic Control Q-Score is Elevated in Pediatric and Adolescent/Young Adult Hematopoietic Stem Cell Transplant Recipients. Diabetes technology & therapeutics. 2022. Epub 20221213. doi: 10.1089/dia.2022.0246. PubMed PMID: 36511871.

4. Meghan Pauley, DO – Pediatric Endocrinology Fellow 2020-2023 Project: Barriers to Uptake of Insulin Technologies and Novel Solutions Role: Manuscript advisor

Publication: Pauley ME, Tommerdahl KL, Snell-Bergeon JK, Forlenza GP. Continuous Glucose

Monitor, Insulin Pump, and Automated Insulin Delivery Therapies for Type 1 Diabetes: An Update on Potential for Cardiovascular Benefits. Curr Cardiol Rep. 2022. Epub 20221024. doi: 10.1007/s11886-022-01799-x. PubMed PMID: 36279036 5. Ideen Tabatabai, MD – Pediatric Endocrinology Fellow 2023-present Project: Real World Implementation of the Beta Bionics iLet Role: Faculty research mentor Publication: Forlenza GP, Tabatabai I, Lewis D. Point-Counterpoint: The Need for Do-It-Yourself (DIY) Open Source (OS) AID Systems in Type 1 Diabetes Management. Diabetes Technol Ther. 2024. Epub 20240426. doi: 10.1089/dia.2024.0073. PubMed PMID: 38669472. 6. Alexandra Sawyer, MD - Pediatric Endocrinology Fellow 2023-present Project: Using Simplified Meal Boluses versus Carbohydrate Counting in Adolescents with Hybrid Closed Loop Systems: A Randomized Crossover Trial Role: Faculty research mentor Graduate and PhD Students 1. Mausam Patidr, MSPH – Pharmacology Graduate Student 2017-2018 Project: Investigation of Self Monitoring of Blood Glucose in Type 1 Diabetes. Role: Graduate committee member and medical advisor for thesis 2. Taisa Kushner – Computer Science PhD Student 2017-2020 Project: Rigorous Synthesis and Verification of Decisions using Data-Driven Models Role: Medical advisor for type 1 diabetes and artificial pancreas modeling and systems. Member of PhD Thesis committee. Publication: Forlenza GP, Kushner T, Messer LH, Wadwa RP, Sankaranarayanan S. Factory-Calibrated Continuous Glucose Monitoring: How and Why It Works, and the Dangers of Reuse Beyond Approved Duration of Wear. Diabetes technology & therapeutics. 2019. Epub 2019/03/01. doi: 10.1089/dia.2018.0401. PubMed PMID: 30817171 3. Aria Saunders – Masters Biomedical Engineering Student 2021-2023 Project: Design and development of an interface tool designed to reduce vehicular accidents due to hypoglycemia in people with diabetes Role: Masters project advisor Publication: Saunders AL, Bodine C, Snell-Bergeon J, Forlenza GP, Shah VN. Higher Prevalence of Hypoglycemia and Unsafe Driving Practices in Adults With Type 1 Diabetes. Diabetes Care. 2023. Epub 20230127. doi: 10.2337/dc22-2035. PubMed PMID: 36706058 4. Amy Zhang – PhD in Biomedical Engineering Student 2022-2023 Project: Safe Driving for Type 1 Diabetes Role: PhD Thesis committee member and clinical advisor Faculty 1. Cari Berget, RN, MPH, CDE – Instructor and Research Nurse 2020-present Role: Ms. Berget serves as the head research nurse and manager of the BDC Pediatric Diabetes Technology Research team. I serve as her direct supervisor and primary academic mentor. 2. Laurel Messer, RN, CDE, PhD – Assistant Professor 2020-2022 Role: Dr. Messer conducts research on diabetes education, treatment adherence, and diabetes technology. I provide her with career and academic mentorship as well as collaboration on numerous academic and industry projects. 3. Erin Cobry, MD – Assistant Professor 2019-present Role: Dr. Cobry conducts research on the impact of T1D on sleep and the role of diabetes technology 6. Taylor Triolo, MD – Associate Professor 2022-present Role: Dr. Triolo conducts research on the impact of diabetes genes on islet survival. I am a technology mentor on her NIH K23 grant. Forlenza (PI) 11/01/22-10/31/24 Moran (PI) 09/01/19-03/31/25 6 years total \$512,869 (5% effort) Hybrid Closed Loop Therapy and Verapamil for Beta Cell Preservation in New Onset Type 1 Diabetes (CLVer) This JDRF Project Award is to investigate the role of advance hybrid closed loop AP systems as well as oral calcium channel blockers in a factorial design in new onset children with T1D. Now in Extension Phase. Role: Site Primary Investigator; Protocol Co-Chair

1U01DK127551-01, NIH/NIDDK

3 years total \$310,104 (10% effort)

Translation of the UVA Advanced Automated Insulin Delivery Systems to Clinical Care in Young Children: Glycemic Control, Regulatory Acceptance and Optimization of Day to Day Use The goal of this multi-center study is to examine the efficacy and safety of the UVA Advanced

Automated Insulin Delivery System in the clinical management of young children under age 6 years with type 1 diabetes

Role: Co-Investigator

2206-05306, Helmsley Charitable Trust

3 years total \$2,713,114 (20% effort)

SEEDS Pathway: Shared Empowerment of Early Device Success

This project involves creating a clinical pathway to help healthcare providers onboard persons with diabetes onto diabetes devices

Grant Support

Active Grants Academic Funding

2-SRA-2023-1275-M-B

2 years total \$1,000,000 (10% effort)

and primary academic mentor.

Expanding Technology Success into Novel Populations: Safety and Feasibility Testing of a Fully Closed Loop System in Adolescents and Young Adults with High Baseline HbA1c Values

in improving health in children and their parents. I work with Dr. Cobry on her career development

Role: Dr. Tommerdahl conducts research on the metabolic and cardiovascular benefits of technology

projects and provide academic and career mentorship.

in the T1D population. I am the technology mentor on her NIH K23 grant.

4. Kalie Tommerdahl, MD - Assistant Professor

5. Samantha Lange, FNP, RN, CDCES - Instructor

This JDRF Project Award is to investigate the use of an advanced fully closed loop AP system in young adults and adolescents with HbA1c values 9-12% and a focus on historically underrepresented populations.

Role: Primary Investigator

3-SRA-2019-852-M-R, JDRF

Role: Ms. Lange serves as a research and clinical nurse practitioner. I serve as her direct supervisor

2021-present

2020-present

Breton (PI)

Polsky (PI)

9/17/20-6/30/24

11/01/21-10/31/24

1R01AT012288-01, NIH Voida (PI) 9/20/22-6/30/26 4 years total \$1,194,505 (5% effort) CAPE2: Enhancing Physiological Closed Loops with Cognitive and Psychosocial-Informed Interventions for Blood Glucose Level Control in Type-1 Diabetes This explores trust and privacy issues critical to developing personalized physiological and cognitive models of T1D patients, to improve the effectiveness of closed-loop control algorithms and improve patient-device interaction through the delivery of timely and pertinent "nudges" encouraging selfmanagement behaviors that improve glycemic control. Role: Co-Investigator Industry Funding AWD-201140, Insulet Corporation Forlenza (PI) 12/01/19-11/30/24 5 years total \$634,520 (5% effort) Evaluating the Safety and Effectiveness of the Omnipod Horizon Automated Insulin Delivery System in Patients with Type 1 Diabetes This project is the pivotal-FDA approval study of the Insulin Horizon HCL AP system in children and adults. Role: Site Primary Investigator G190270, Insulet Corporation Forlenza (PI) 07/22/20-07/21/25 5 years total \$284,838 (5% effort) Evaluating the Safety and Effectiveness of the Omnipod Horizon Automated Insulin Delivery System in Very Young Children with Type 1 Diabetes This project is the pivotal-FDA approval study of the Insulin Horizon HCL AP system in children 2-5 years old. Role: Site Primary Investigator AWD-200511, Tandem Diabetes Care Forlenza (PI) 10/08/19-10/07/24 5 years total \$103,138 (5% effort) Safety of the Tandem t:slim X2 with Control-IQ Automated Insulin Delivery System in Children, age Two to Five Years Old This project is the first safety study of the Control-IQ HCL AP algorithm in pre-school aged children. Role: Site Primary Investigator CIP324, Medtronic Inc. Forlenza (PI) 07/08/19-07/07/24 5 years total \$300,000 (2% effort) Evaluation of an Advanced Algorithm with CGM in Adults, Adolescents, and Pediatrics This project is a pre-pivotal test of an advanced Bayesian calibration filter in the Medronic CGM system. Role: Primary Investigator CIP326, Medtronic Inc. Forlenza (PI) 06/24/19-06/23/24 5 years total \$223,256 (2% effort) Feasibility Study on Safety Observations Related to Setting Changes Recommended by Personalized Closed Loop (PCL)

Role: Co-Investigator

This project is pre-pivotal refinement and testing of a cell phone and cloud based tuning algorithm to improve hybrid closed loop therapy.

Role: Primary Investigator

CIP321, Medtronic Inc. 5 years total \$721,625 (2% effort)	Forlenza (PI)	05/08/19-05/07/24	
Safety and Effectiveness Evaluation of the Advanced Hybrid Closed Loop (AHCL) system in Adult and Adolescent Subjects with Type 1 Diabetes			
This project is the pivotal trial of the ePID 4.0 HCL alo	porithm in pediatric pat	ients.	
Role: Primary Investigator			
I8B-MC-ITSB, Lilly	Wadwa (PI)	03/21/19-03/20/24	
5 years total \$217,330 (2% effort)			
A Prospective, Randomized Double-Blind Compariso Postprandial LY900014 Treatment Group in Children Peds			
Phase 3 pivotal trial of Lilly ultra-rapid acting insulin (I	FiAsp) in pediatrics.		
Role: Co-Investigator			
AWD-223799, Tandem Diabetes Care	Forlenza (PI)	10/04/22-10/03/27	
5 years total \$67,851 (2% effort)			
Safety Evaluation of an Advanced Hybrid Closed Loop System Using Lyumjev with the Tandem t:slim X2 with Control-IQ in Adults, Adolescents, and Children with Type 1 Diabetes			
This project is the FDA approval trial to use an ultra-r		ne CIQ HCL system.	
Role: Site Primary Investigator			
CIP335, Medtronic Inc.	Forlenza (PI)	08/01/22-07/31/27	
5 years total \$165,400 (2% effort)			
CIP335: Evaluation of the Advanced Hybrid Closed L Subjects Using Lyumjev	oop (AHCL) System in	Type 1 Adult and Pediatric	
This project is the FDA approval trial to use an ultra-r	apid acting insulin in th	ne 780G AHCL system.	
Role: Site Primary Investigator			
TP-0011713	Forlenza (PI)	10/04/22-10/03/27	
5 years total \$67,851 (5% effort)		10/04/22 10/00/21	
Control IQ 2.0 Feasibility Study #2: Use of Control-IQ Technology 2.0 in Adults, Children, and Preschoolers with Type 1 Diabetes			
This clinical tests the CIQ algorithm with a lower target and late meal module in an outpatient setting with meal and exercise challenges.			
Role: Site Primary Investigator			
CIP337, Medtronic Inc.	Forlenza (PI)	02/14/23-02/13/28	
5 years total \$103,585 (2% effort)	ι υποπΖα (ΕΙ)	02/14/20-02/13/20	
Safety and Effectiveness Evaluation of the MiniMed 7	780G System used in C	Combination with the DS5	
CGM			

This study tests the use of the Synergy disposable sensor with the 780G system.

Role: Site Primary Investigator			
CIP331, Medtronic Inc. 5 years total \$119,257 (2% effort)	Forlenza (PI)	04/25/21-04/24/26	
Use of the Guardian Connect System with Smart Connects sensor, insulin, sleep, activity, and novel connected smart-pen and CGM system. Role: Site Primary Investigator	, ,	on participants using a	
25B0534, Tandem Diabetes Care and Dexcom 5 years total \$100,453	Forlenza (PI)	01/31/22-01/30/27	
Feasibility and Safety Study of a Hybrid Closed Loop I Adults with High Risk Acute Lymphoblastic Leukemia	nsulin Delivery System fo	r Children and Young	
This investigator-initiated pilot study tests the use of th adults with hyperglycemia due to therapy for high risk		in adolescents and young	
Role: Primary Investigator			
Prior Support			
Academic Funding			
5-ECR-2019-736-A-N, JDRF	Forlenza (PI)	03/01/19-02/28/24	
5 years total \$750,000 (50% effort)			
Promotion of Successful Artificial Pancreas Utilization Interventions in Children, Adolescents, and Young Adu		5	
This JDRF Early Career Patient-Oriented Diabetes Research Award is focused on development of multi-component predictive models to identify patients likely to need additional supports with clinical implementation of hybrid closed loop artificial pancreas technology. These models will then be used to provide targeted behavioral interventions to support successful adoption of this technology.			
Role: Primary Investigator			
Patten-Davis Foundation	Forlenza (PI)	03/01/19-02/28/24	
5 years total \$200,000 (1% effort)			
Promotion of Successful Artificial Pancreas Utilization Interventions in Children, Adolescents, and Young Ado			
This award provides additional project support for the	JDRF ECPODRA.		
Role: Primary Investigator			
ECCS-2037267, NSF	Zhou (PI)	9/15/20-11/30/23	
4 years total \$134,627 (5% effort)			
SenSE: Closed-Loop Artificial Pancreas with Noninvas	sive Monitoring of Glucose	e and Diet	
This NSF project award is to develop noninvasive sen meal detection using an ear-worn device and machine		using light refraction and	
Role: Site Primary Investigator			
P30DK116073, NIH/NIDDK	Messer (PI)	04/01/21-03/31/23	
2 years total \$100,000 (0.5% effort)			
Development of a "Cognitive Awareness Artificial Pane with Type 1 Diabetes Optimize their use of Artificial Pa		PE) to Help Adolescents	

This project involves determining predictors of diabetes self-management that can be leveraged to create a unique "nudge" intervention for adolescents with type 1 diabetes using hybrid closed loop. Role: Co-Investigator

Cystic Fibrosis Foundation 3 years total \$450,000 (5% effort)

Sensor Augmented Pump Therapy in Inpatients with CFRD This project is a randomized controlled trial of sensor augmented pump therapy compared against multiple daily injections to improve glucose control in children with Cystic Fibrosis Related Diabetes (CFRD) hospitalized for cystic fibrosis exacerbation.

Role: Co-Investigator

CCF-1815983, NSF

3 years total \$122,927 (2% effort)

Rigorous Synthesis and Verification Decision using Data-Driven Models

PhD Thesis work for Dr. Kushner focusing on data driven modeling to verify and improve automated decision making for type 1 diabetes

Role: Co-Investigator

UC4DK108612, NIDDK

2 years total \$171,050 (2% effort)

Final clinical studies for submission of a pre-market approval application to the FDA for a Bionic Pancreas that automates type 1 diabetes management

This project is the pivotal trial of the Damiano iLet system in children and adults. It includes insulin-only and dual-hormone studies.

Role: Co-Investigator

1-SRA-2019-817-S-B, JDRF

1 year total \$29,193 (5% effort)

Analysis of a large patient dataset to improve probabilistic-based modeling for automated insulin delivery

This project will use the large Tidepool dataset and expert review by investigators at two sites to develop train and test automated machine learning algorithms to detect pump infusion site failures and CGM sensor anomalies.

Role: Site Primary Investigator

AWD-172034, Helmsley Charitable Trust

3 years total \$198,278 (2% effort)

Evaluation of the DreaMed Advice4U for Automated Insulin Pump Settings Adjustments in Children and Adolescents with Type 1 Diabetes – The Advice4U Study

Pilot randomized controlled clinical trial of automated decision support systems to adjust pump settings for adolescents on SAP therapy.

Role: Co-Investigator

UC4DK108520, NIDDK

3 years total \$626,133 (2% effort)

07/01/19-08/31/22

Bequette (PI) 07/01/19-06/30/20

3/26/17-5/25/20

09/30/15-09/30/20

Phillip (PI)

Damiano (PI)

Chan (PI)

Sankaranarayanan (PI) 06/01/18-05/31/21

Hovorka (PI)

09/01/15-03/30/20

Day-and-night home closed loop in young people with type 1 diabetes			
This study is the pivotal trial of the Hovorka MPC HCL A	P platform.		
Role: Co-Investigator			
UC4DK108483, NIDDK	Kovatchev (PI)	01/01/16-12/30/19	
4 years total \$966,706 (2% effort)			
Clinical Acceptance of the Artificial Pancreas: The Intern		• • •	
This multi-national effort is a series of trials on the Type2 pivotal trial of the Tandem HCL MPC AP system.	Lero Kovatchev MPC alg	orithm containing a	
Role: Co-Investigator			
K12DK094712, NIDDK	Steck (PI)	08/01/16-07/31/19	
3 years total \$434,700 (75% effort)			
Developing Pediatric Diabetes Investigators for the Futu	re		
My research projects for this grant focus on clinical imple	ementation of artificial pa	increas systems and on	
the impact of malglycemia in patients after bone marrow	transplantation.		
Role: Trainee			
DP3DK104059, NIDDK	Buckingham (PI)	09/01/14-06/30/19	
4 years total \$568,175 (2% effort)	2 doi:::		
Using a Closed-Loop System Plus Behavioral Supports	in Preschoolers with Dial	betes	
This study is a behavioral-intervention adherence trial of			
technology use in young children.			
Role: Site Primary Investigator			
UC4DK101132, NIDDK	Meyer-Davis (PI)	09/01/13-06/30/18	
5 years total \$2,156,974 (10% effort)	, ()		
FL3X: An Adaptive Intervention to Improve Outcomes fo	r Youth with Type 1 Diab	oetes	
Randomized controlled adaptive trial of behavioral coach	••		
Role: Co-Investigator			
R01DK102188, NIDDK	Bequette (PI)	04/01/14-03/31/18	
3 years total: \$203,301 (5% effort)			
A probabilistic closed-loop artificial pancreas to handle u	inannounced meals		
This project is a series of in-patient and hotel/house stud		ent of fully closed loop AP	
designs.			
Role: Site Primary Investigator			
Thrasher Research Fund	Sopfe (PI)	07/01/17-06/30/18	
1 year total: \$15,451 (2% effort)			
Evaluation of Malgylcemia via Continuous Glucose moni Transplant Population	toring in the Pediatric He	ematopoletic Stem Cell	
Fellowship research project for Dr. Sopfe investigating the	ne impact of malglycemia	a on outcomes in	
pediatric patients after HSCT.			
Role: Mentor			

Transplant Population				
Fellowship research project for Dr. Sopfe investigating the impact of malglycemia on outcomes in pediatric patients after HSCT.				
Role: Mentor				
1446900, NSF	Sankaranarayanan (P) 10/01/14-09/30/17		
5 years total \$615,404 (7% effort)	ional Varification of Artific	al Danaraga Cantral		
CPS: Synergy: Collaborative Research: In-Silico Functional Verification of Artificial Pancreas Control Algorithms.				
This NSF project involves formal verification of AP algorithms in a manner similar to that used for other control systems.				
Role: Co-Investigator				
University of Colorado Foundation	Maahs (PI)	04/01/16-03/31/17		
1 year total: \$130,000 (5% effort)	Everging in Vouth with T	1DM: The AD Ski Comp		
Reducing Risks and Improving Glucose Control during Foundation funded randomized controlled trial of the Ke		•		
during extremes of exercise, temperature, and altitude.		as system in children		
Role: Co-Investigator				
-				
R01DK085591, NIDDK	Chase (PI)	09/01/09-08/30/16		
7 years total: \$289,970 (7% effort)				
In home closed loop reduction of nocturnal hypoglycen	nia and daytime hypergly	cemia		
Randomized controlled trial of home-use of PLGS and	Hyper/hypo-glycemia mi	nimization algorithms.		
Role: Co-Investigator				
17-2013-471, JDRF	Buckingham (PI)	11/01/13-10/30/15		
2 years total: \$301,778 (10% effort)	Buckingham (FI)	11/01/13-10/30/13		
Predicting Infusion Set and CGM Failure in Artificial Pa	ncreas Systems			
Trial testing home-use of a Zone MPC AP system as well as fault detection algorithms.				
Role: Site Primary Investigator				
·····				
T32DK065519, NIDDK	Moran (PI)	06/24/13-06/30/15		
2 years total \$237,974 (75% effort)				
Pre-Faculty Research Training in Pediatric Endocrinology				
Funding for pediatric endocrinology fellows interested in a career in endocrinology clinical research.				
My project for this award focused on use of artificial pancreas technology to control glucose in patients				
after total pancreatectomy with islet-auto transplantation.				
Role: Trainee				
University of Minnesota CTSI	Bellin (PI)	06/24/13-06/30/15		
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Evaluation of Malgylcemia via Continuous Glucose monitoring in the Pediatric Hematopoietic Stem Cell

Cancer League of Colorado

1 year total: \$29,961 (2% effort)

2 year total: \$50,000 (5% effort)

Efficacy and Feasibility of Fully Automated Closed Loop Insulin Pump Therapy after Islet Auto-Transplantation Funding for my fellowship project under Dr. Bellin investigating the role of artificial pancreas technology in patients after total pancreatectomy with islet auto-transplantation. Role: Co-Investigator Minnesota Vikings Research Award Bellin (PI) 06/24/13-06/30/15 2 year total: \$50,000 (5% effort) Efficacy and Feasibility of Fully Automated Closed Loop Insulin Pump Therapy after Islet Auto-Transplantation Funding for my fellowship project under Dr. Bellin investigating the role of artificial pancreas technology in patients after total pancreatectomy with islet auto-transplantation. Role: Co-Investigator University of Florida Pilot Award Silverstein (PI) 06/01/12-05/31/13 1 year total: \$62,000 (10% effort) Fun & Fit Families- behavior modification for pediatric obesity Role: Co-Investigator American Academy of Pediatrics – CATCH Grant Silverstein (PI) 06/01/12-05/31/13 1 year total: \$12,000 (5% effort) Fun & Fit Families- behavior modification for pediatric obesity Role: Co-Investigator Industry Funding ADC-US-VAL-18175, Abbott Diabetes Care Forlenza (PI) 12/01/18-11/30/23 3 years total \$131,299 (5% effort) FreeStyle Libre Flash Glucose Monitoring System Pediatric Accuracy Study This project is the pediatric pivotal accuracy study for the Abbott FreeStyle Libre 2 Flash Glucose Monitor. Role: Site Primary Investigator CEP304, Medtronic Inc. Slover (PI) 10/12/17-10/11/22 5 years total \$160,000 (2% effort) Multi-Center Randomized Controlled Trial in Adult and Pediatric Patients with Type 1 Diabetes Using Closed Loop System at Home Study Phase 4 post-marketing randomized controlled trial of the 670G HCL AP system in patients previously on MDI, CSII, and SAP therapy. Role: Co-Investigator ADC-US-PMS-17168-002, Abbott Diabetes Care Forlenza (PI) 9/03/18-9/02/21 3 years total \$53,140 (3% effort) FreeStyle Libre Flash Glucose Monitoring System Post Approval Study for Pediatric Patients This project is a post-market randomized controlled trial of the Abbott FreeStyle Libre Flash Glucose Monitor in pediatric patients in a 1 year long out-patient observational period.

Role: Site Primary Investigator

CEP302-163889, Medtronic Inc 2 years total \$435,000 (5% effort)	Forlenza (PI)	05/01/16-12/30/20			
Safety Evaluation of the Hybrid Closed Loop (HCL) System in Pediatric Subjects with Type 1 Diabetes This project is the pivotal trial of the Medtronic 670G HCL AP in patients 2-13 years of age. Role: Site Primary Investigator					
AWD-201530, Insulet Corporation 1 year total \$98,680 (2% effort)	Forlenza (PI)	12/01/19-11/30/20			
Prepivotal evaluation of the Safety and Effectiveness of the Omnipod Horizon Automated Glucose Control System in Patients with Type 1 Diabetes					
This project is the prepivotal final evaluation of the complete Omnipod-Dexcom-Horizon integrated HCL AP platform prior to the pivotal trial.					
Role: Site Primary Investigator					
IDE3_AWD-175652, Insulet Corporation 3 years total \$435,220 (5% effort)	Forlenza (PI)	07/11/17-07/11/20			
Evaluating glucose control in patients with type 1 diabetes under free-living conditions with the Insulet automated glucose control system					
This project is a pre-pivotal trial of the Omnipod HCL MPC AP system working with the Dexcom G4 CGM.					
Role: Site Primary Investigator					
AWD-175324, Tandem Diabetes Care Inc 3 years total \$299,246 (5% effort)	Forlenza (PI)	06/23/17-06/22/20			
Tandem PLGS Pivotal Home Randomized Crossover St	•				
This project is the pivotal out-patient trial of the Tandem PLGS system working on the T:slim X2 pump with the Dexcom G5 CGM.					
Role: Site Primary Investigator					
IDE_2, Insulet Corporation	Forlenza (PI)	03/01/17-02/28/20			
3 years total \$100,246 (2% effort)		e with the Aleka tea			
Evaluating meal performance and effect of moderate intensity exercise in patients with type 1 diabetes with the Insulet automated glucose control system					
This project is a small pre-pivotal trial of the Omnipod HCL MPC AP system working with the Dexcom G4 CGM.					
Role: Site Primary Investigator					
AWD-165278, Tandem Diabetes Care Inc 3 years total \$119,958 (2% effort)	Forlenza (PI)	08/19/16-11/09/19			
Tandem Predictive Low Glucose Suspend Inpatient Feasibility Study					
This project is an in hospital safety trial of the Tandem PLGS algorithm. Role: Site Primary Investigator					
AP-IDE1, Insulet Corporation 3 years total \$176,760 (2% effort)	Forlenza (PI)	11/10/16-11/09/19			

A Prospective Early Feasibility Study to Assess the Performance of the Insulet Artificial Pancreas System Using the OmniPod Insulin Management System and the Dexcom G4 ShareTM AP System This project is an in hospital safety trial of the Omnipod HCL MPC AP system working with the Dexcom G4 CGM.

Role: Site Primary Investigator

AWD-175652, Tandem Diabeto 2 years total \$124,800 (2% effo		Forlenza (PI)	11/01/17-10/31/19		
Real-Time Monitoring and Glucose Control During Winter-Sport Exercise in Youth with Type 1 Diabetes: The AP Ski Camp Continued					
This project is an investigator-initiated study of the Tandem AP system (Kovatchev algorithm) in children at a ski camp.					
Role: Site Primary Investigator					
CEP294, Medtronic Inc 3 years total: \$250,000 (5% effo	ort)	Slover (PI)	11/01/15-03/31/18		
Safety Evaluation of the Hybrid Closed Loop (HCL) System in Type 1 Diabetes This project is the pivotal trial for the Medtronic 670G HCL AP system in patients >= 14 years of age. Role: Co-Investigator					
CEP273, Medtronic Inc.	.n	Slover (PI)	06/16/15-08/15/16		
1 year total: \$150,000 (5% effort) In-Clinic Feasibility Study to Observe the Closed Loop System Brief, 1 week, hotel pre-pivotal study of the HCL AP system in children with T1D. Role: Co-Investigator					
Medtronic Investigator Initiate	ed Supplies Grant	Bellin (PI)	06/24/13-06/30/15		
2 year total: supplies only (n/a) Efficacy and Feasibility of Fully Automated Closed Loop Insulin Pump Therapy after Islet Auto- Transplantation					
Role: Co-Investigator					
<u>Relinquished Funding</u> Academic Funding					
1K23DK120867-01, NIDDK 4 year total \$802,700 (75% effo	rt)	Forlenza (PI)	04/01/19-03/30/23		
4 year total \$602,700 (75% enor) Promotion of Successful Artificial Pancreas Utilization via Predictive Modeling and Targeted Behavioral Interventions in Children, Adolescents, and Young Adults with Type 1 Diabetes.					
This NIH K23 proposal was awarded by the NIH, but relinquished due to overlap with the JDRF ECPODRA.					
Role: Primary Investigator					
<u>Bibliography</u>					
Peer-Reviewed Publications First Author: <u>35</u>	Senior Author: <u>24</u>	Other Co-Auth	or: <u>60</u>		

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Competitive Abstracts

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- 2. **Forlenza GP**, Nathan B, Moran A, Dunn T, Beilman G, Pruett T, Bellin M. Efficacy and Feasibility of Fully Automated Closed Loop Insulin Pump Therapy after Islet Auto-Transplantation. *Poster* (*Forlenza presenting author*) at the Pancreas Fest National Conference, Pittsburgh, PA, 2014.
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- 20. Forlenza GP, Wadwa RP, Slover R, O'Brien R, Mouse TJ, Lum J, Berget C, Marcal T, Beck RW, Buckingham BA, Ly TT. Inpatient Safety and Feasibility of the Tandem Predictive Low Glucose Suspend (PLGS) Insulin Pump. *Platform Oral Presentation (Forlenza presenting author) at the American Diabetes Association Conference, San Diego, CA, 2017.*
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- 22. Buckingham BA, **Forlenza GP**, Schneider J, Peyser TA, Dassau E, Lee JB, O'Connor J, Layne J, Ly TT. Safety and Feasibility of Omnipod Hybrid Closed-Loop in Adolescents with Type 1 Diabetes Using a Personalized Model Predictive Control Algorithm. *Poster (Buckingham presenting author) at the American Diabetes Association Conference, San Diego, CA, 2017.*
- 23. Buckingham BA, **Forlenza GP**, Schneider J, Peyser TA, Dassau E, Lee JB, O'Connor J, Layne J, Ly TT. Safety and Feasibility of Omnipod Hybrid Closed-Loop in Children Aged 6-12 Years with Type 1 Diabetes Using a Personalized Model Predictive Control Algorithm. *Late-Breaking Poster (Buckingham presenting author) at the American Diabetes Association Conference, San Diego, CA, 2017.*
- 24. Garg S, Slover RH, Giordano D, **Forlenza GP**, Lee SW, Shin J, Kaufman FR. Maintaining Glucose Control at One + Year of MiniMed 670G System Home Use; Single Center Experience. *Late-Breaking Poster (Garg presenting author) at the American Diabetes Association Conference, San Diego, CA, 2017.*
- 25. Sopfe J, Keating AK, Pyle L, Campbell K, Liu AK, Wadwa RP, Verneris M, Giller R, **Forlenza GP**. Malglycemia in Pediatric Hematopoietic Stem Cell Transplant Recipients. *Poster (Sopfe presenting author) at the Pediatric Blood & Marrow Transplant Consortium Conference Montreal, Quebec, 2017.*
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- 28. Buckingham B, Pinsker J, Forlenza GP, Cengiz E, Pettus J, Swanson V, Li Z, Lum J, Kollman C, Beck R. PROLOG: A Randomized Clinical Trial to Assess the Efficacy of Predictive Low Glucose Suspend versus Sensor-Augmented Pump Therapy in the Management of Type 1 Diabetes. *Platform Oral Presentation (Buckingham presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Vienna, Austria, 2018.*
- 29. Buckingham B, Christiansen MP, **Forlenza GP**, Wadwa RP, Peyser TA, Lee JB, O'Connor J, Layne JE, Ly TL. Performance of Omnipod Personalized Model Predictive Control Algorithm with Specific Meal Challenges in Adults with Type 1 Diabetes. *Platform Oral Presentation (Buckingham presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Vienna, Austria, 2018.*

- Forlenza GP, Buckingham BA, Christiansen MP, Wadwa RP, Peyser TA, Lee JB, O'Connor J, Layne JE, Ly TL. Performance of Omnipod Personalized Model Predictive Control Algorithm with Moderate Intensity Exercise and Variable Setpoints in Adults with Type 1 Diabetes. *Poster (Forlenza presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Vienna, Austria, 2018.*
- 31. Buckingham BA, Shulman DI, Forlenza GP, Bode BW, Pinhas-Hamiel O, Wood MA, Kaiserman KB, Liljenquist DR, Bailey TS, Shin J, Huang S, Cordero TL, Kaufman FR. Glycemic Outcomes During Minimed 670G System Use in Children with T1D. Platform Oral Presentation (Buckingham presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Vienna, Austria, 2018.
- 32. Forlenza GP, Shulman DI, Wood MA, Bode BW, Pinhas-Hamiel O, Buckingham BA, Kaiserman KB, Liljenquist DR, Bailey TS, Shin J, Huang S, Cordero TL, Lee SW, Kaufman FR. Evaluation of the Minimed 670G System Predictive Low Glucose Management Feature in Children. *Platform oral Presentation (Forlenza presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Vienna, Austria, 2018.*
- 33. Berget C, Messer L, Pyle L, Westfall E, **Forlenza GP**, Driscoll K. Real World Use of Hybrid Closed Loop Therapy in Pediatric Patients with Type 1 Diabetes. *Oral guided poster (Berget presenting author) at the American Diabetes Association Conference, Orlando, FL, 2018.*
- 34. Buckingham BA, Sherr J, Forlenza GP, Peyser TA, Lee JB, O'Connor JB, Dumas B, Huyett LM, Layne JE, Ly TT. Safety and Performance of the Omnipod Hybrid Closed-Loop System in Adults with Type 1 Diabetes Over 5 Days Under Free-Living Conditions. *Platform oral presentation (Buckingham presenting author) at the American Diabetes Association Conference, Orlando, FL, 2018.*
- 35. **Forlenza GP**, Buckingham BA, Sherr J, Peyser TA, Lee JB, O'Connor JB, Dumas B, Huyett LM, Layne JE, Ly TT. Safety and Performance of the Omnipod Hybrid Closed-Loop System in Adolescents with Type 1 Diabetes Over 5 Days Under Free-Living Conditions. *Poster (Forlenza presenting author) at the American Diabetes Association Conference, Orlando, FL, 2018.*
- 36. Sherr J, **Forlenza GP**, Buckingham BA, Peyser TA, Lee JB, O'Connor JB, Dumas B, Huyett LM, Layne JE, Ly TT. Safety and Performance of the Omnipod Hybrid Closed-Loop System in Children Aged 6-12 years with Type 1 Diabetes Over 5 Days Under Free-Living Conditions. *Poster (Sherr presenting author) at the American Diabetes Association Conference, Orlando, FL, 2018.*
- 37. Forlenza GP, Shulman DI, Wood MA, Bailey TS, Bode BW, Buckingham BA, Huang S, Shin J, Lee SW, Cordero TL, Kaufman FR. Overnight to Early Morning Glycemic Outcomes in Children Using the MiniMed 670G Hybrid Closed-Loop (HCL) System. *Platform oral presentation (Forlenza presenting author) at the American Diabetes Association Conference, Orlando, FL, 2018.*
- Berget C, Messer LH, Vigers TR, Wadwa RP, Slover R, Pyle L, Driscoll KA, Forlenza GP. Real World Use of Hybrid Closed Loop Therapy in Pediatric Patients with Type 1 Diabetes: A Clinical Observation Study. *Platform oral presentation (Berget presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Berlin, Germany, 2019.*
- 39. Norlander L, Tabatabai I, Ekhlaspour L, Buckingham B, Sethi M, **Forlenza G**. Glycemic Outcomes and System Adherence Between Age Groups in Pediatric Subjects Using a Hybrid Closed-Loop Pump. *Platform oral presentation (Norlander presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Berlin, Germany, 2019.*
- 40. Lange S, Messer LH, Berget C, **Forlenza G**, Slover R. Exercise using Hybrid Closed Loop Therapy: Lessons from Pediatrics. *Poster (Lange presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Berlin, Germany, 2019.*
- 41. Vigers T, Chan CL, Snell-Bergeon J, Bjornstad P, Zeitler PS, **Forlenza G**, Pyle L. An R Package for Analysis of Continuous Glucose Monitor Data. *Poster (Vigers presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Berlin, Germany, 2019.*
- 42. Messer LH, Hanes S, Tabatabai I, DiMeglio LA, Hannon T, **Forlenza G**, Woerner S, Lange S, Driscoll K, Hood K, Rodriguez H, Buckingham BA. Novel Telehealth Support Intervention for Young Children

Using HCL. Poster (Messer presenting author) at the American Diabetes Association Conference, San Francisco, CA, 2019.

- 43. Ekhlaspour L, **Forlenza G**, Berget C, Bird K, Englert K, Hsu L, Balliaro C, Mauras N, Wadwa RP, Buckingham B, El-Khatib F, Damiano E, Russell S. First Test of the iLet, a Purpose-Built Bionic Pancreas Platform, in Children and Adolescents with Type 1 Diabetes. *Poster (Ekhlaspour presenting author) at the American Diabetes Association Conference, San Francisco, CA, 2019.*
- 44. Buckingham BA, **Forlenza GP**, Sherr J, Galderisi A, Ekhlaspour L, Lee JB, O'Connor JB, Dumais B, Huyett LM, Layne JE, Ly TT. Safety and Performance of the Omnipod Hybrid Closed-Loop System in Young Children Aged 2-6 Years with Type 1 Diabetes. *Platform oral presentation (Buckingham presenting author) at the American Diabetes Association Conference, San Francisco, CA, 2019.*
- 45. Wong JJ, Clay SM, **Forlenza GP**, Hanes S, Wadwa RP, Hood KK. Evaluating Early Initiation of Continuous Glucose Monitoring (CGM) Among Youth Diagnosed with Type 1 Diabetes (T1D). *Poster (Wong presenting author) at the American Diabetes Association Conference, San Francisco, CA, 2019.*
- 46. Bailey TS, Bode BW, Buckhingham BA, **Forlenza GP**, Pinhas-Hamiel O, Kaiserman K, Liljenquist DR, Shulman DI, Wood MA, Chen X, Shin J, Cordero TL, Lee SW, Kaufman FR. Glycemic Outcomes in the MiniMed 670G System Pivotal Trials in Patients 2-75 Years of Age. *Poster (Bailey presenting author) at the American Diabetes Association Conference, San Francisco, CA, 2019.*
- 47. Sopfe J, Scarbro S, Suresh K, Maloney K, **Forlenza GP**. Hyperglycemia and Adverse Outcomes in Pediatric Acute Lymphoblastic Leukemia/Lymphoma Patients. *Poster (Sopfe presenting author) at the American Society of Pediatric Hematology/Oncology Conference, New Orleans, LA, 2019.*
- Ekhlaspour L, Raghinaru D, Forlenza GP< Isganaitis E, Kudva YC, Lam DW, Levister C, O'Malley G, Lum JW, Brown SA. Outcomes in Pump- and CGM-Naïve Subgroups in the International Diabetes Closed-Loop (iDCL) Trial. Poster (Ekhlaspour presenting author) at the Diabetes Technology Meeting, Bethesda, MA, 2019.
- O'Malley G, Raghinaru, Levy CJ, Pinsker JE, Forlenza GP, Messer L, Isganaitis E, Ekhlaspour L, Lum J, Brown SA. Clinical Management of a Closed-Loop Control System: Results from a 6-Month Multicenter Randomized Clinical Trial. *Poster (O'Malley presenting author) at the Diabetes Technology Meeting, Bethesda, MA, 2019.*
- 50. Messer LH, Campbell K, Manning M, Habif S, **Forlenza GP**. Satisfaction and reduction in diabetes burden with predictive low glucose suspend in individuals with type 1 diabetes. *Poster (Messer presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 51. Kushner T, Messer L, **Forlenza G**. Translating Standard Clinical Protocol into Tuning Procedures for Hybrid Closed Loop Systems: 670G, Control-IQ, and Loop. *Poster (Kushner presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 52. Forlenza GP, DeSalvo DJ, Huyett L, Jantz J, Chang A, Vienneau T, Ly TT. Frequent Bolusing is associated with Better Glycemic Control in 7,494 Youth with Type 1 Diabetes Using the Omnipod Insulin Management System. *Poster (Forlenza presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 53. Weinstock RS, Hirsch IB, Forlenza GP, DeSalvo DJ, Jantz J, Huyett L, Chang A, Vienneau T, Ly TT. Regular Users of Temporary Basal Rate or Extended Bolus Have Better Glycemic Outcomes in 11,997 Omnipod Insulin Management System Users with Type 1 Diabetes. Poster (Weinstock presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.
- 54. Sherr JL, Buckingham BA, Forlenza GP, Galderisi A, Ekhlaspour L, Wadwa RP, Zgorski M, Kingman R, Berget C, Lee JB, O'Connor J, Dumais B, Vienneau T, Huyett LM, Ly TT. Performance of Omnipod Personalized Model Predictive Control with Multiple Setpoints, and Meal and Exercise Challenges in Children aged 2-12 years with Type 1 Diabetes. Poster (Sherr presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.

- 55. **Forlenza GP**, Buckingham BA, Sherr JL, Wadwa RP, Galderisi A, Ekhlaspour L, Berget C, Hsu L, Zgorski M, Lee JB, O'Connor J, Dumais B, Vienneau T, Huyett LM, Ly TT. Performance of Omnipod Personalized Model Predictive Control Algorithm with Multiple Setpoints and Meal and Exercise Challenges in Adults and Adolescents with Type 1 Diabetes. *Poster (Forlenza presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 56. Hanes S, Wadwa RP, Weber I, **Forlenza G**, Buckingham B, Hood K. Continuous Glucose Monitoring (CGM) initiation at diagnosis versus six months later: Which is Best? *Poster (Hanes presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 57. Wong JJ, Hanes S, **Forlenza G**, Weber I, Wadwa RP, Hood K. Early Initiation of Continuous Glucose Monitoring Among Children and Adolescents: Benefits and Timing. *Poster (Wong presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain,* 2020.
- 58. Berget C, Messer LH, Vigers T, Pyle L, Driscoll KA, **Forlenza G**. Twelve Month Clinical Observation of Youth with Type 1 Diabetes Using 670G HCL in the Real-World. *Platform oral presentation (Berget presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 59. Cobry E, Berget C, Messer L, Wadwa RP, Driscoll KA, Pyle L, Vigers T, **Forlenza G**. Psychosocial Outcomes After One Year of Real-World Hybrid Closed-Loop Therapy in Youth and Young Adults with Type 1 Diabetes. *Poster (Cobry presenting author) at the Advanced Technologies and Treatments for Diabetes International Conference, Madrid, Spain, 2020.*
- 60. Forlenza GP. Continuous Glucose Monitor Use in Hospital Settings. *Invited oral platform* presentation (Forlenza presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.
- 61. Ekhlaspour L, **Forlenza GP**, Schoelwer M, DeBoer M, Kingman R, Berget C, Emory E, Wadwa RP, Buckingham B, Breton M. Safety and Performance of the Tandem T:slim X2 with Control-IQ Automated Insulin Delivery System in Preschoolers, age 2-6 Years Old. *Oral abstract (Ekhlaspour presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.*
- 62. Forlenza GP, Buckingham BA, Criego A, Brown SA, Bode BW, Levy CJ, Ly TT. First Home Evaluation of the Omnipod Horizon Automated Glucose Control System at Specific Glucose Targets in Children with Type 1 Diabetes. Oral abstract (Forlenza presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.
- 63. Buckingham BA, **Forlenza GP**, Criego A, Brown SA, Bode BW, Levy CJ, Ly TT. First Home Evaluation of the Omnipod Horizon Automated Glucose Control System in Children with Type 1 Diabetes. *Poster (Buckingham presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.*
- 64. Brown SA, Bode BW, Levy CJ, **Forlenza GP**, Buckingham BA, Criego A, Ly TT. First Home Evaluation of the Omnipod Horizon Automated Glucose Control System at Specific Glucose Targets in Adults with Type 1 Diabetes. *Poster (Brown presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.*
- 65. Brown SA, Bode BW, Levy CJ, **Forlenza GP**, Buckingham BA, Criego A, Ly TT. First Home Evaluation of the Omnipod Horizon Automated Glucose Control System in Adults with Type 1 Diabetes. *Poster (Brown presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.*
- 66. Forlenza GP, Buckingham BA, Sherr JL, Wadwa RP, Galderisi A, Ekhlaspour L, Berget C, Hsu L, Zgorski M, Lee JB, O'Connor J, Dumais B, Vienneau T, Huyett LM, Ly TT. Omnipod Personalized MPC Algorithm at Target Glucose of 110 mg/dL is Safe in Adults and Adolescents without Increasing Risk of Hypoglycemia. Poster (Forlenza presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.

- 67. Sherr JL, Buckingham BA, Forlenza GP, Galderisi A, Ekhlaspour L, Wadwa RP, Zgorski M, Kingman R, Berget C, Lee JB, O'Connor J, Dumais B, Vienneau T, Huyett LM, Ly TT. Omnipod Personalized MPC Algorithm at Target Glucose of 110 mg/dL is Safe in Children Aged 2-12 without Increasing Risk of Hypoglycemia. Poster (Sherr presenting author) at American Diabetes Association Conference, Chicago, IL (virtual), 2020.
- 68. **Forlenza GP**, Buckingham BA, Criego A, Brown SA, Bode BW, Levy CJ, Ly TT. First home evaluation of the Omnipod Horizon Automated Glucose Control System in Children with Type 1 Diabetes. *Platform oral presentation (Forlenza presenting author) at the European Association for the Study of Diabetes conference, Vienna, Austria (virtual), 2020.*
- 69. Brown SA, Bode BW, Levy CJ, **Forlenza GP**, Buckingham BA, Criego A, Ly TT, First home evaluation of the Omnipod Horizon Automated Glucose Control System in adults with Type 1 Diabetes. *Platform oral presentation (Brown presenting author) at the European Association for the Study of Diabetes conference, Vienna, Austria (virtual), 2020.*
- 70. Criego A, Buckingham BA, **Forlenza GP**, Brown SA, Bode BW, Levy CJ, Ly TT. First Home Evaluation of the Omnipod Horizon Automated Glucose Control System in Children with Type 1 Diabetes. *ePoster (Criego presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Abu Dhabi, UAE (virtual), 2020.*
- 71. Cobry E, Berget C, Messer LH, Escobar E, Jost E, Dong F, Driscoll K, **Forlenza GP**. Sleep Mode Use in Pediatric Patients with Type 1 Diabetes Using Control-IQ. *ePoster (Cobry presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Abu Dhabi, UAE (virtual), 2020.*
- 72. Berget C, Messer LH, Dong F, Escobar E, Jost E, Cobry E, Slover RH, Driscoll KA, **Forlenza GP**. Increased time in range in the first month of Control-IQ use in a clinical sample of youth with T1D. ePoster (Berget presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Abu Dhabi, UAE (virtual), 2020.
- 73. Messer LH, Berget C, Towers L, Otten B, Ernst A, Karami A, Thomas S, Cobry E, Alonso GT, Slover R, Wadwa RP, **Forlenza GP**. Evaluation of a Control-IQ Follow-up Program by Diabetes Educators. *ePoster (Messer presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Abu Dhabi, UAE (virtual), 2020.*
- 74. Boranian E, Messer LH, Berget C, Cobry E, Wadwa RP, Slover R, **Forlenza GP**. Success and challenges with CGM in children and adolescents with T1D. *ePoster (Boranian presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Abu Dhabi, UAE (virtual), 2020.*
- 75. Bode B, Levy C, Brown S, Carlson A, Shah V, Pinsker J, Bhargava A, Mehta S, Laffel L, Jones T, Aleppo G, **Forlenza G**, Ly T. Performance of Omnipod 5 Automated Insulin Delivery System at Specific Glucose Targets from 110-1150 mg/dL Over Three Months in Adults and Adolescents with Type 1 Diabetes. *Platform oral presentation (Bode presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Virtual, 2021.*
- 76. Sherr J, Forlenza G, Buckingham B, Criego A, Hansen D, Bode B, Brown S, Macleish S, Pinsker J, Desalvo D, Mehta S, Laffel L, Bhargava A, Ly T. Performance of Omnipod 5 Automated Insulin Delivery System at Specific Glucose Targets from 110-150 mg/dL Over Three Months in Children with Type 1 Diabetes (T1D). Platform oral presentation (Sherr presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Virtual, 2021.
- 77. Forlenza G, Brown S, Bode B, Levy C, Criego A, Hansen D, Hirsch I, Carlson A, Bergenstal R, Sherr J, Mehta S, Laffel L, Shah V, Bhargava A, Weinstock R, MacLeish S, DeSalvo D, Jones T, Aleppo G, Buckingham B, Ly T. Safety Evaluation of the Ominpod 5 Automated Insulin Delivery System over 3 Months of Use in Adults and Children with Type 1 Diabetes. *Platform oral presentation (Forlenza presenting author) at the European Association for the Study of Diabetes conference, Virtual, 2021.*
- 78. Sawyer A, Sobczak M, **Forlenza G**, Alonso GT. Continuous Glucose Monitor Use, but Not Insulin Pump Use, in Pediatric Patients with Type 1 Diabetes Consistently Associated with Lower A1c.

Platform oral presentation (Sawyer presenting author) at the Pediatric Academic Societies Conference, Virtual 2021.

- 79. Sherr J, Bode B, **Forlenza G**, Laffel L, Brown S, Buckingham B, Criego A, DeSalvo D, Macleish S, Hansen D, Ly T. Evaluation of the Omnipod 5 Automated Insulin Delivery System in Very Young Children with Type 1 Diabetes (T1D). *Platform oral presentation (Sherr presenting author) at the American Diabetes Association 2021 Scientific Sessions, Virtual, 2021.*
- 80. Shah V, Criego A, Carlson A, Bhargava A, Bode B, Brown S, Forlenza G, Levy C, Mehta S, Laffel L, Aleppo G, Buckingham B, DeSalvo D, Hirsch I, Macleish S, Pinsker J, Ly T. Transition from Multiple Daily Injection (MDI) to Omnipod 5 Automated Insulin Delivery System Improves A1c in Type 1 Diabetes (T1D). *Platform oral presentation (Shah presenting author) at the American Diabetes Association 2021 Scientific Sessions, Virtual, 2021.*
- 81. Carlson A, Criego A, Forlenza G, Bode B, Levy C, Hansen D, Hirsch I, Brown S, Bergenstal R, Sherr J, Mehta S, Laffel L, Shah V, Bhargava A, Weinstock R, Macleish S, DeSalvo D, Jones T, Aleppo G, Buckingham B, Ly T. Glycemic Management over 6 Months with the Omnipod 5 Automated Insulin Delivery System. *Platform oral presentation (Carlson presenting author) at the American Diabetes Association 2021 Scientific Sessions, Virtual, 2021.*
- 82. **Forlenza G**, Vigers T, Berget C, Messer L, Lal R, Basina M, Maahs D, Hood K, Buckingham B, Wilson D, Wadwa RP, Driscoll K, Pyle L. Predicting Success with a First-Generation Hybrid Closed Loop Artificial Pancreas System Among Children, Adolescents, and Young Adults with Type 1 Diabetes: a Model Development and Validation Study. *ePoster (Forlenza presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Virtual 2021.*
- 83. Forlenza G, DeSalvo D, Hadjiyianni I, Huyett L, Lowen S, Chang A, Vinneau T, Ly T. Glycemic Profiles and Treatment Patterns in 1,464 Children and Adolescents with Type 1 Diabetes Using the Omnipod DASH Insulin Management System with Continuous Glucose Monitoring and Cloud-Based Data Management. *ePoster (Forlenza presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Virtual 2021.*
- 84. Sobczak M, Sawyer A, Alonso GT, **Forlenza G**. Continuous Glucose Monitoring (CGM) Use with or without Insulin Pump Use is Associated with Lower A1c in Pediatric Patients with Type 1 Diabetes (T1D). *ePoster (Sobczak presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Virtual 2021.*
- 85. Sherr J, Bode B, **Forlenza G**, Laffel L, Schoelwer M, Buckingham B, Criego A, DeSalvo D, MacLeish S, Hansen D, Ly T. Evaluation of the Omnipod 5 Automated Insulin Delivery System in Very Young Children with Type 1 Diabetes. *Platform oral presentation (Sherr presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Virtual 2021.*
- 86. Escobar E, Towers L, Berget C, Vigers T, Pyle L, Messer L, Cobry E, Slover R, Wadwa RP, Driscoll K, Forlenza G. Psychosocial Impacts of the t:slim X2 Pump with Control-IQ Technology (CIQ) in a Clinical Population of Youth with Type 1 Diabetes (T1D) After 6 Months of Use. ePoster (Escobar presenting author) at the International Society for Pediatric and Adolescent Diabetes Conference, Virtual 2021.
- 87. **Forlenza GP**, Vigers T, Berget C, Messer L, Karami A, Towers L, O'Donnell H, Wadwa RP, Pyle L. Predicting 12-Month Success with a Second-Generation Hybrid Closed Loop Artificial Pancreas System. *Platform oral presentation (Forlenza presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.*
- 88. Berget C, Messer L, Vigers T, Pyle L, Cobry E, **Forlenza G**. Sustaining Improvement in Glycemic Control for Youth Using Control-IQ (CIQ) for One Year. *Platform oral presentation (Berget presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.*
- 89. Macleish S, Sherr J, Bode B, **Forlenza G**, Laffel L, Schoelwer M, Buckingham B, Criego A, DeSalvo D, Hansen D, Ly T, Omnipod 5 in Preschoolers Study Group. *Platform oral presentation (Macleish*

presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.

- 90. Boranian E, Vigers T, O'Donnell H, Berget C, Messer L, Pyle L, Wadwa RP, **Forlenza GP**. The Relationship Between Time-In-Range (TIR), Mean Glucose and HbA1c in Youth with Type 1 Diabetes. *Platform oral presentation (Boranian presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.*
- 91. Ekhlaspour L, Buckingham B, Huyett L, Criego A, Carlson A, Brown S, Weinstock R, Hansen D, Bode B, Forlenza G, Levy C, Macleish S, DeSalvo D, Hirsch I, Jones T, Mehta S, Laffel L, Sherr J, Bhargava A, Shah V, Dumais B, Ly T, Omnipod 5 Study Group. Performance of the Omnipod 5 Automated Insulin Delivery System with and Without Pre-Meal Bolus. *ePoster (Ekhlaspour presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.*
- 92. Berget C, Centi S, McNair B, **Forlenza G**, Messer L. Feasibility of a Clinical Tool to Support Clinicians in Caring for Persons with Diabetes Using Automated Insulin Delivery. *ePoster (Berget presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.*
- 93. Messer L, Voida S. Cook P, **Forlenza G**, Feisler C, Fivekiller E, Sankaranarayanan S. Development of a "Cognitive Awareness Artificial Pancreas Enhancement" (CAPE) to Help Adolescents with T1D Optimize Their Use of Artificial Pancreas Systems. *ePoster (Messer presenting author) at Advanced Technologies and Treatments for Diabetes International Conference, Barcelona, 2022.*
- 94. Criego AB, Carlson AL, Forlenza GP, Bode BW, Levy CJ, Hansen DW, Hirsch IB, Brown SA, Bergenstal RM, Sherr J, Mehta SN, Laffel LM, Shah V, Bhargava A, Weinstock RS, Macleish S, DeSalvo D, Jones TC, Aleppo G, Buckingham BA, Ly TL, Omnipod 5 Research Group. Glycemic Outcomes over 15 Months with the Omnipod 5 Automated Insulin Delivery System. Poster presentation (Criego presenting author) at the American Diabetes Association 2022 Scientific Sessions, New Orleans, 2022.
- 95. DeSalvo D, Bode B, Forlenza GP, Laffel LM, Buckingham BA, Criego AB, Schoelwer M, Macleish SA, Sherr J, Hansen DW, Ly TT, Omnipod 5 In Preschool Study Group. ADA Presidents' Select Abstract: Glycemic Outcomes over 12 Months in Very Young Children with the Omnipod 5 Automated Insulin Delivery (AID) System. *Platform oral presentation (DeSalvo presenting author) at the American Diabetes Association 2022 Scientific Sessions, New Orleans, 2022.*
- 96. Forlenza GP, Bode BW, Carlson AL, Criego AB, Brown SA, Weinstock RS, Hansen DW, Buckingham BA, Mehta SN, Laffel LM, Sherr J, Levy CJ, Hirsch IB, Macleish SA, DeSalvo D, Shah V, Bhargava A, Jones TC. Glycemic Outcomes with the Omnipod 5 Automated Insulin Delivery (AID) System Stratified by Baseline Hypoglycemia Risk Among People with Type 1 Diabetes (T1D) Ages 2 to 70 Years. Poster presentation (Forlenza presenting author) at the American Diabetes Association 2022 Scientific Sessions, New Orleans, 2022.
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