Stanford

Bruce Buckingham

Professor of Pediatrics (Endocrinology) at the Lucile Salter Packard Children's Hospital, Emeritus

Pediatrics - Endocrinology and Diabetes

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Endocrinology Clinic**

  730 Welch Rd 1st Fl

  Palo Alto, CA 94305

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Bio

CLINICAL FOCUS

- Pediatric Endocrinology
- Type 1 Diabetes Mellitus

ACADEMIC APPOINTMENTS

- Professor Emeritus, Pediatrics - Endocrinology and Diabetes
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Medical Education: University of California San Diego School of Medicine (1972) CA
- Residency: Children's Hospital Los Angeles Pediatric Residency (1974) CA
- Internship: Children's Hospital Los Angeles Pediatric Residency (1973) CA
- Fellowship: Children's Hospital Los Angeles (1976) CA
- Board Certification: Pediatrics, American Board of Pediatrics (1977)
- Board Certification: Pediatric Endocrinology, American Board of Pediatrics (1978)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My major interest is in type 1 diabetes mellitus, continuous glucose sensor, and the development of an artificial pancreas. Other research interests include using continuous glucose monitoring and algorithms to control blood glucose levels in intensive care units.

CLINICAL TRIALS

- Initiation of Continuous Glucose Monitoring at Diagnosis of Type 1 Diabetes, Recruiting
- Safety Evaluation of the Hybrid Closed Loop (HCL) System in Pediatric Subjects With Type 1 Diabetes, Recruiting

- The Pediatric Artificial Pancreas (PEDAP) Trial of Control-IQ Technology in Young Children in Type 1 Diabetes, Recruiting
- A Randomized Control Trial Comparing Linjeta Versus Humalog in Pumps: Effect on Postprandial Blood Sugars., Not Recruiting
- A Study to Evaluate a Multiple Model Probabilistic Predictive Controller (MMPPC) for Closed Loop Insulin Delivery, Not Recruiting
- An Outpatient Pump Shutoff Pilot Feasibility and Safety Study, Not Recruiting
- An Outpatient Study of Automated Blood Glucose Control With an Insulin-Only Bionic Pancreas, Not Recruiting
- Assessment of an Automatic Closed-loop Insulin Delivery System, Not Recruiting
- Development of Algorithms for a Hypoglycemic Prevention Alarm: Closed Loop Study, Not Recruiting
- Diabetes Assistant (DiAs) Control-to-Range (CTR) Nocturnal Closed-Loop Camp Study, Not Recruiting
- Diabetes Pump With Predictive Low Glucose Suspend Pivotal Trial, Not Recruiting
- Duration of Infusion Set Function: Quick-Set Teflon Catheter Versus Sure-T Steel Infusion Set Catheter, Not Recruiting
- Evaluation of Extended Infusion Set Wear Using Medtronic Extended Wear Sof-set Infusion Set, Not Recruiting
- Evaluation of Fiasp® (Fast Acting Insulin Aspart) in 670G Hybrid Closed-Loop Therapy, Not Recruiting
- Fault Detection, Zone MPC and DiAs System in T1D, Not Recruiting
- Fault Detection, Zone MPC and DiAs System in T1D, Not Recruiting
- Full Day and Night Closed-Loop With DiAs Platform, Not Recruiting
- Hyaluronidase Effect on Infusion Set Life, Not Recruiting
- Hybrid Closed Loop Therapy and Verapamil for Beta Cell Preservation in New Onset Type 1 Diabetes, Not Recruiting
- Hybrid Closed-Loop Hotel Studies With Medtronic PID Controller, Not Recruiting
- Insulet Artificial Pancreas Early Feasibility Study, Not Recruiting
- International Diabetes Closed Loop (iDCL) Trial: Research Site Training Protocol, Not Recruiting
- Longevity of Multi-Slitted Catheter With Lantern Technology, Not Recruiting
- Medtronic Minimed Overnight Closed-Loop System, Not Recruiting
- Medtronic Treat to Range (TTR) Closed-Loop Control, Not Recruiting
- Omnipod Horizon™ Automated Glucose Control System Preschool Cohort, Not Recruiting
- Outpatient Pump Shutoff Pilot Feasibility and Efficacy Study, Not Recruiting
- Outpatient Reduction of Nocturnal Hypoglycemia by Using Predictive Algorithms and Pump Suspension in Children, Not Recruiting
- Pilot Study to Evaluate a Method of Controlling High Blood Sugar in the Pediatric Intensive Care Unit, Not Recruiting
- Pivotal Omnipod Horizon™ Automated Glucose Control System, Not Recruiting
- Prepivotal Omnipod Horizon™ Automated Glucose Control System, Not Recruiting
- Real-time Reminders To Decrease Late or Missed Meal Boluses, Not Recruiting
- Reduction of Nocturnal Hypoglycemia and Hyperglycemia in the Home Using Predictive Algorithms, Not Recruiting
- Reduction of Nocturnal Hypoglycemia and Hyperglycemia in the Home Using Predictive Algorithms, Pump Suspension, and Insulin Dosing in Children and Young Adolescents, Not Recruiting
- Remote Monitoring of Diabetes in Young Children With Type 1 Diabetes, Not Recruiting
- Reversal of Hypoglycemia Unawareness Using Continuous Glucose Monitoring, Not Recruiting
- Testing State of the Art Remote Glucose Monitoring at Diabetes Camp, Not Recruiting
- The Insulin-Only Bionic Pancreas Pivotal Trial, Not Recruiting
- The International Diabetes Closed Loop (iDCL) Trial: Protocol 4, Not Recruiting
- USS Virginia Closed-Loop Versus SAP Therapy for Hypoglycemia Reduction in T1D, Not Recruiting

Publications

PUBLICATIONS

- **Digital Technology for Diabetes. Reply.** *The New England journal of medicine*
  Hughes, M. S., Addala, A., Buckingham, B.
  2024; 390 (10): 963-964

- **The Minimally-Invasive Oral Glucose Minimal Model: Estimation of Gastric Retention, Glucose Rate of Appearance, and Insulin Sensitivity From Type 1 Diabetes Data Collected in Real-Life Conditions.** *IEEE transactions on bio-medical engineering*
  Faggionato, E., Schiavon, M., Ekhlaspour, L., Buckingham, B. A., Dalla Man, C.
  2024; 71 (3): 977-986

- **Decreasing the Burden of Carbohydrate Counting and Meal Announcement with Automated Insulin Delivery, Meal Recognition, and Autocorrection Doses: A Case Study.** *Diabetes technology & therapeutics*
  Buckingham, B. A., Bergenstal, R. M.
  2024; 26 (S3): 97-101

- **Glycemic Outcomes Persist for up to 2 Years in Very Young Children with the Omnipod 5 Automated Insulin Delivery System.** *Diabetes technology & therapeutics*
  DeSalvo, D. J., Bode, B., Forlenza, G. P., Laffel, L. M., Buckingham, B. A., Criego, A., Schoelwer, M., MacLeish, S. A., Sherr, J. L., Hansen, D., Ly, T. T.
  2024

- **Patient reported outcomes (PROs) and user experiences of young children with type 1 diabetes using t:slim X2 insulin pump with control-IQ technology.** *Diabetes research and clinical practice*
  Hood, K. K., Schneider-Utaka, A. K., Reed, Z. W., Buckingham, B. A., Cobry, E., DeBoer, M. D., Ekhlaspour, L., Schoelwer, M., Paul Wadwa, R., Lum, J., Kollman, C., Beck, R. W., Breton, et al
  2024; 208: 111114

- **Digital Technology for Diabetes.** *The New England journal of medicine*
  Hughes, M. S., Addala, A., Buckingham, B.
  2023; 389 (22): 2076-2086

- **Diabetic ketoacidosis (DKA) at diagnosis in youth with type 1 diabetes (T1D) is associated with a higher hemoglobin A1c even with intensive insulin management.** *Diabetes technology & therapeutics*
  Zaharieva, D. P., Ding, V., Addala, A., Prahalad, P., Bishop, F., Hood, K., Desai, M., Wilson, D. M., Buckingham, B. A., Maahs, D. M.
  2023

- **Two Years with a Tubeless AID System: A Single-Arm Multicenter Trial in Children, Adolescents, and Adults with Type 1 Diabetes.** *Diabetes technology & therapeutics*
  Criego, A., Carlson, A. L., Brown, S., Forlenza, G. P., Bode, B., Levy, C., Hansen, D., Hirsch, I. B., Bergenstal, R. M., Sherr, J. L., Mehta, S., Laffel, L. M., Shah, et al
  2023

- **Safety and glycemic outcomes during the MiniMed™ advanced hybrid closed-loop (AHCL) system pivotal trial in children and adolescents with type 1 diabetes.** *Diabetes technology & therapeutics*
  Pihoker, C., Shulman, D. I., Forlenza, G. P., Kaiserman, K. B., Sherr, J. L., Thasher, J. R., Buckingham, B. A., Kipnes, M. S., Bode, B. W., Carlson, A. L., Lee, S., Latif, K., Lilenquist, et al
  2023

- **Automated Insulin Delivery with Remote Real-Time Continuous Glucose Monitoring for Hospitalized Patients with Diabetes: A Multi-Center, Single-arm, Feasibility Trial.** *Diabetes technology & therapeutics*
  Davis, G. M., Hughes, M. S., Brown, S., Sibayan, J., Perez-Guzman, M. C., Stumpf, M., Thompson, Z., Basina, M., Patel, R., Hester, J., Abraham, A., Ly, T. T., Chaney, et al
  2023

- **Verapamil and Pancreatic Beta Cell Function in Pediatric Type 1 Diabetes-Reply.** *JAMA*
  Forlenza, G. P., Schamberger, M. S., Buckingham, B. A.
  2023; 330 (4): 380

- **Psychosocial Outcomes with the Omnipod & REG; 5 Automated Insulin Delivery System in Children and Adolescents with Type 1 Diabetes and Their Caregivers** *PEDIATRIC DIABETES*

  Hood, K. K., Polonsky, W. H., MacLeish, S. A., Levy, C. J., Forlenza, G. P., Criego, A. B., Buckingham, B. A., Bode, B. W., Hansen, D. W., Sherr, J. L., Brown, S. A., DeSalvo, D. J., Mehta, et al

  2023; 2023

- **Swimming With the Omnipod 5 Automated Insulin Delivery System: Connectivity in the Water.** *Diabetes care*

  Hughes, M. S., Kingman, R. S., Hsu, L., Lal, R. A., Buckingham, B. A., Zaharieva, D. P.

  2023

- **Glycemic outcomes during early use of the MiniMed 780G advanced hybrid closed-loop system with Guardian 4 sensor.** *Diabetes technology & therapeutics*

  Cordero, T. L., Dai, Z., Arrieta, A., Niu, F., Vella, M., Shin, J., Rhinehart, A. S., McVean, J., Lee, S., Slover, R. H., Forlenza, G. P., Shulman, D. I., Pop-Busui, et al

  2023

- **Practical Aspects and Exercise Safety Benefits of Automated Insulin Delivery Systems in Type 1 Diabetes.** *Diabetes spectrum : a publication of the American Diabetes Association*

  Zaharieva, D. P., Morrison, D., Paldus, B., Lal, R. A., Buckingham, B. A., O'Neal, D. N.

  2023; 36 (2): 127-136

- **A Meta-Analysis of Randomized Trial Outcomes for the t:slim X2 Insulin Pump with Control-IQ Technology in Youth and Adults from Age 2 to 72.** *Diabetes technology & therapeutics*

  Beck, R. W., Kanapka, L. G., Breton, M. D., Brown, S. A., Wadwa, R. P., Buckingham, B. A., Kollman, C., Kovatchev, B.

  2023

- **Trial of Hybrid Closed-Loop Control in Young Children with Type 1 Diabetes.** *The New England journal of medicine*

  Wadwa, R. P., Reed, Z. W., Buckingham, B. A., DeBoer, M. D., Ekhlaspour, L., Forlenza, G. P., Schoelwer, M., Lum, J., Kollman, C., Beck, R. W., Breton, M. D., PEDAP Trial Study Group, Wadwa, R. P., et al

  2023; 388 (11): 991-1001

- **Effect of Verapamil on Pancreatic Beta Cell Function in Newly Diagnosed Pediatric Type 1 Diabetes: A Randomized Clinical Trial.** *JAMA*

  Forlenza, G. P., McVean, J., Beck, R. W., Bauza, C., Bailey, R., Buckingham, B., DiMeglio, L. A., Sherr, J. L., Clements, M., Neyman, A., Evans-Molina, C., Sims, E. K., Messer, et al

  2023

- **Effect of Tight Glycemic Control on Pancreatic Beta Cell Function in Newly Diagnosed Pediatric Type 1 Diabetes: A Randomized Clinical Trial.** *JAMA*

  McVean, J., Forlenza, G. P., Beck, R. W., Bauza, C., Bailey, R., Buckingham, B., DiMeglio, L. A., Sherr, J. L., Clements, M., Neyman, A., Evans-Molina, C., Sims, E. K., Messer, et al

  2023

- **Improved Glycemia with Hybrid Closed-Loop (HCL) Versus Continuous Subcutaneous Insulin Infusion (CSII) Therapy: Results from a Randomized Controlled Trial.** *Diabetes technology & therapeutics*

  Garg, S. K., Grunberger, G., Weinstock, R. S., Lawson, M. L., Hirsch, I. B., DiMeglio, L. A., Pop-Busui, R., Philis-Tsimikas, A., Kipnes, M. S., Lilenquist, D. R., Brazg, R. L., Kudva, Y. C., Buckingham, et al

  2022

- **Continuous glucose monitoring and metrics for clinical trials: an international consensus statement.** *The lancet. Diabetes & endocrinology*

  Battelino, T., Alexander, C. M., Amiel, S. A., Arreaza-Rubin, G., Beck, R. W., Bergenstal, R. M., Buckingham, B. A., Carroll, J., Ceriello, A., Chow, E., Choudhary, P., Close, K., Danne, et al

  2022

- **ISPAD Clinical Practice Consensus Guidelines 2022: Other complications and associated conditions in children and adolescents with type 1 diabetes.** *Pediatric diabetes*

  Frohlich-Reiterer, E., Elbarbary, N. S., Simmons, K., Buckingham, B., Humayun, K. N., Johannsen, J., Holl, R. W., Betz, S., Mahmud, F. H.

  2022; 23 (8): 1451-1467

- **Positive Impact of the Bionic Pancreas on Diabetes Control in Youth 6-17 Years Old with Type 1 Diabetes: A Multicenter Randomized Trial.** *Diabetes technology & therapeutics*

  Messer, L. H., Buckingham, B. A., Cogen, F., Daniels, M., Forlenza, G., Jafri, R. Z., Mauras, N., Muir, A., Wadwa, R. P., White, P. C., Russell, S. J., Damiano, E. R., El-Khatib, et al

  2022; 24 (10): 712-725

- **Multicenter, Randomized Trial of a Bionic Pancreas in Type 1 Diabetes.** *The New England journal of medicine*

  Russell, S. J., Beck, R. W., Damiano, E. R., El-Khatib, F. H., Ruedy, K. J., Balliro, C. A., Li, Z., Calhoun, P., Wadwa, R. P., Buckingham, B., Zhou, K., Daniels, M., Raskin, et al

  2022; 387 (13): 1161-1172

- **Consensus Recommendations for the Use of Automated Insulin Delivery (AID) Technologies in Clinical Practice.** *Endocrine reviews*

  Phillip, M., Nimri, R., Bergenstal, R. M., Barnard-Kelly, K., Danne, T., Hovorka, R., Kovatchev, B. P., Messer, L. H., Parkin, C. G., Ambler-Osborn, L., Amiel, S. A., Bally, L., Beck, et al

  2022

- **A Pilot randomized trial to examine effects of a hybrid closed-loop insulin delivery system on neurodevelopmental and cognitive outcomes in adolescents with type 1 diabetes.** *Nature communications*

  Reiss, A. L., Jo, B., Arbelaez, A. M., Tsalikian, E., Buckingham, B., Weinzimer, S. A., Fox, L. A., Cato, A., White, N. H., Tansey, M., Aye, T., Tamborlane, W., Englert, et al

  2022; 13 (1): 4940

- **Lived experience of CamAPS FX closed loop system in youth with type 1 diabetes and their parents.** *Diabetes, obesity & metabolism*

  Hood, K. K., Garcia-Willingham, N., Hanes, S., Tanenbaum, M. L., Ware, J., Boughton, C. K., Allen, J. M., Wilinska, M. E., Tauschmann, M., Denvir, L., Thankamony, A., Campbell, F., Wadwa, et al

  2022

- **Positive Impact of the Bionic Pancreas on Diabetes Control in Youth 6-17 Years Old with Type 1 Diabetes: A Multicenter Randomized Trial.** *Diabetes technology & therapeutics*

  Messer, L. H., Buckingham, B. A., Cogen, F., Daniels, M., Forlenza, G. P., Jafri, R., Mauras, N., Muir, A., Wadwa, R. P., White, P., Russell, S., Damiano, E. R., El-Khatib, et al

  2022

- **Safety and Glycemic Outcomes With a Tubeless Automated Insulin Delivery System in Very Young Children With Type 1 Diabetes: A Single-Arm Multicenter Clinical Trial.** *Diabetes care*

  Sherr, J. L., Bode, B. W., Forlenza, G. P., Laffel, L. M., Schoelwer, M. J., Buckingham, B. A., Criego, A. B., DeSalvo, D. J., MacLeish, S. A., Hansen, D. W., Ly, T. T.

  2022

- **Outpatient Randomized Crossover Comparison of Zone Model Predictive Control Automated Insulin Delivery with Weekly Data Driven Adaptation versus Sensor-Augmented Pump: Results from the International Diabetes Closed Loop Trial 4 (DCLP4).** *Diabetes technology & therapeutics*

  Pinsker, J. E., Dassau, E., Deshpande, S., Raghinaru, D., Buckingham, B. A., Kudva, Y. C., Laffel, L. M., Levy, C., Church, M. M., Desrochers, H., Ekhlaspour, L., Kaur, R. J., Levister, et al

  2022

- **Pharmacodynamics, pharmacokinetics, safety, and tolerability of a ready-to-use, room temperature, liquid stable glucagon administered via an autoinjector pen to youth with type 1 diabetes.** *Pediatric diabetes*

  Buckingham, B., Sherr, J., Prestrelski, S. J., Conoscenti, V.

  2022

- **Smartwatch Gesture-Based Meal Reminders Improve Glycemic Control.** *Diabetes, obesity & metabolism*

  Corbett, J. P., Hsu, L., Brown, S. A., Kollar, L., Vleugels, K., Buckingham, B., Breton, M. D., Lal, R. A.

  2022

- **Outcomes in Pump- and CGM-Baseline Use Subgroups in the International Diabetes Closed-Loop (iDCL) Trial.** *Journal of diabetes science and technology*

  Ekhlaspour, L., Raghinaru, D., Forlenza, G. P., Isganaitis, E., Kudva, Y. C., Lam, D. W., Levister, C., O'Malley, G., Church, M. M., Lum, J. W., Buckingham, B., Brown, S. A.

  2022: 19322968221089361

- **Evaluation of Extended Infusion Set Performance in Adults with Type 1 Diabetes: Infusion Set Survival Rate and Glycemic Outcomes from a Pivotal Trial.** *Diabetes technology & therapeutics*

  Brazg, R. L., Garg, S. K., Bhargava, A., Thasher, J. R., Latif, K., Bode, B. W., Bailey, T. S., Horowitz, B. S., Cavale, A., Kudva, Y. C., Kaiserman, K. B., Grunberger, G., Reed, et al

  2022

- **Cambridge hybrid closed-loop algorithm in children and adolescents with type 1 diabetes: a multicentre 6-month randomised controlled trial.** *The Lancet. Digital health*

Ware, J., Boughton, C. K., Allen, J. M., Wilinska, M. E., Tauschmann, M., Denvir, L., Thankamony, A., Campbell, F. M., Wadwa, R. P., Buckingham, B. A., Davis, N., DiMeglio, L. A., Mauras, et al
2022

- **Improving the Patient Experience With Longer Wear Infusion Sets Symposium Report.** *Journal of diabetes science and technology*
  Nguyen, K. T., Xu, N. Y., Buckingham, B. A., Chattaraj, S., Cohen, O., Heinemann, L., Pickup, J., Svensson, J., Vigersky, R. A., Wong, J. C., Ziegler, R.
  2022: 19322968221078884

- **Glycemic Outcomes of Children 2-6Years of Age with Type 1 Diabetes during the Pediatric MiniMed 670G System Trial.** *Pediatric diabetes*
  Forlenza, G. P., Ekhlaspour, L., DiMeglio, L. A., Fox, L. A., Rodriguez, H., Shulman, D. I., Kaiserman, K. B., Liljenquist, D. R., Shin, J., Lee, S. W., Buckingham, B. A.
  1800

- **Glycemic Outcomes in Baseline Hemoglobin A1C Subgroups in the International Diabetes Closed-Loop (iDCL) Trial.** *Diabetes technology & therapeutics*
  Ekhlaspour, L., Town, M. A., Raghinaru, D., Lum, J., Brown, S., Buckingham, B. A.
  2022

- **Corrigendum to: Continuous Glucose Monitoring: An Endocrine Society Clinical Practice Guideline.** *The Journal of clinical endocrinology and metabolism*
  Klonoff, D. C., Buckingham, B., Christiansen, J. S., Montori, V. M., Tamborlane, W. V., Vigersky, R. A., Wolpert, H.
  2021

- **Impact of a Novel Diabetes Support System on a Cohort of Individuals With Type 1 Diabetes Treated With Multiple Daily Injections: A Multicenter Randomized Study.** *Diabetes care*
  Bisio, A., Anderson, S., Norlander, L., O'Malley, G., Robic, J., Ogyaadu, S., Hsu, L., Levister, C., Ekhlaspour, L., Lam, D. W., Levy, C., Buckingham, B., Breton, et al
  2021

- **Automation of a multiplex agglutination-PCR (ADAP) type 1 diabetes (T1D) assay for the rapid analysis of islet autoantibodies.** *SLAS technology*
  Cortez, F. d., Gebhart, D., Tandel, D., Robinson, P. V., Seftel, D., Wilson, D. M., Maahs, D. M., Buckingham, B. A., Miller, K. W., Tsai, C.
  1800

- **Ultra-Fast Insulin-Pramlintide Co-Formulation for Improved Glucose Management in Diabetic Rats.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
  Maikawa, C. L., Chen, P. C., Vuong, E. T., Nguyen, L. T., Mann, J. L., d'Aquino, A. I., Lal, R. A., Maahs, D. M., Buckingham, B. A., Appel, E. A.
  2021: e2101575

- **Patient Reported Outcomes in a Randomized Trial of Closed-Loop Control: The Pivotal International Diabetes Closed Loop Trial.** *Diabetes technology & therapeutics*
  Kudva, Y. C., Laffel, L. M., Brown, S., Raghinaru, D., Pinsker, J. E., Ekhlaspour, L., Levy, C., Messer, L. H., Kovatchev, B., Lum, J., Beck, R. W., Gonder-Frederick, L. A.
  2021

- **Longevity of the Novel ConvaTec Infusion Set with Lantern Technology.** *Diabetes, obesity & metabolism*
  Lal, R. A., Hsu, L., Zhang, J., Schondorff, P. K., Heschel, M., Buckingham, B.
  2021

- **Full closed loop open-source algorithm performance comparison in pigs with diabetes.** *Clinical and translational medicine*
  Lal, R. A., Maikawa, C. L., Lewis, D., Baker, S. W., Smith, A. A., Roth, G. A., Gale, E. C., Stapleton, L. M., Mann, J. L., Yu, A. C., Correa, S., Grosskopf, A. K., Liong, et al
  2021; 11 (4): e387

- **"IT'S LIKE LEARNING TO DRIVE A MANUAL CAR": EXPERIENCES OF CONTINUOUS GLUCOSE MONITORING ADOPTION IN ADULTS WITH TYPE 1 DIABETES**
  Wu, C. A., Tanenbaum, M. L., Ngo, J., Hood, K., Hanes, S., Basina, M., Buckingham, B. A., Maahs, D. M.
  OXFORD UNIV PRESS INC.2021: S27

- **Advances in Insulin Pump Infusion Sets Symposium Report.** *Journal of diabetes science and technology*
  Zhang, J. Y., Shang, T., Chattaraj, S., Cohen, O., Heschel, M., Vigersky, R. A., Heinemann, L., Norgaard, K., Svensson, J., Buckingham, B., Klonoff, D. C.
  2021: 1932296821999080

- **Impact of Type 1 Diabetes in the Developing Brain in Children: A Longitudinal Study.** *Diabetes care*

Mauras, N., Buckingham, B., White, N. H., Tsalikian, E., Weinzimer, S. A., Jo, B., Cato, A., Fox, L. A., Aye, T., Arbelaez, A. M., Hershey, T., Tansey, M., Tamborlane, et al

2021

- **Health-Related Quality of Life and Treatment Satisfaction in Parents and Children with Type 1 Diabetes Using Closed-Loop Control.** *Diabetes technology & therapeutics*

  Cobry, E., Kanapka, L., Cengiz, E., Carria, L., Ekhlaspour, L., Buckingham, B. A., Hood, K., Hsu, L. J., Messer, L., Schoelwer, M., Emory, E., Ruedy, K. J., Beck, et al

  2021

- **Predictors of Time-in-Range (70-180 mg/dL) Achieved Using a Closed-Loop Control System.** *Diabetes technology & therapeutics*

  Schoelwer, M. J., Kanapka, L. G., Wadwa, R. P., Breton, M. D., Ruedy, K. J., Ekhlaspour, L. n., Forlenza, G. P., Cobry, E. C., Messer, L. H., Cengiz, E. n., Jost, E. n., Carria, L. n., Emory, et al

  2021

- **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.** *Diabetes technology & therapeutics*

  Forlenza, G. P., Vigers, T., Berget, C., Messer, L., Lal, R. A., Basina, M., Maahs, D. M., Hood, K., Buckingham, B. A., Wilson, D. M., Wadwa, R. P., Driscoll, K. A., Pyle, et al

  2021

- **Multicenter Trial of a Tubeless, On-Body Automated Insulin Delivery System With Customizable Glycemic Targets in Pediatric and Adult Participants With Type 1 Diabetes.** *Diabetes care*

  Brown, S. A., Forlenza, G. P., Bode, B. W., Pinsker, J. E., Levy, C. J., Criego, A. B., Hansen, D. W., Hirsch, I. B., Carlson, A. L., Bergenstal, R. M., Sherr, J. L., Mehta, S. N., Laffel, et al

  2021

- **Help when you need it: Perspectives of adults with T1D on the support and training they would have wanted when starting CGM.** *Diabetes research and clinical practice*

  Tanenbaum, M. L., Messer, L. H., Wu, C. A., Basina, M., Buckingham, B. A., Hessler, D., Mulvaney, S. A., Maahs, D. M., Hood, K. K.

  2021: 109048

- **Clinically serious hypoglycemia is rare and not associated with time-in-range in youth with new-onset type 1 diabetes.** *The Journal of clinical endocrinology and metabolism*

  Addala, A., Zaharieva, D. P., Gu, A. J., Prahalad, P., Scheinker, D., Buckingham, B., Hood, K. K., Maahs, D. M.

  2021

- **ONBOARD: A feasibility study of a telehealth-based continuous glucose monitoring adoption intervention for adults with type 1 diabetes.** *Diabetes technology & therapeutics*

  Tanenbaum, M., Ngo, J., Hanes, S., Basina, M., Buckingham, B. A., Hessler, D., Maahs, D. M., Mulvaney, S. A., Hood, K.

  2021

- **Engineering biopharmaceutical formulations to improve diabetes management.** *Science translational medicine*

  Maikawa, C. L., d'Aquino, A. I., Lal, R. A., Buckingham, B. A., Appel, E. A.

  2021; 13 (578)

- **Extended Use of the Control-IQ Closed-Loop Control System in Children With Type 1 Diabetes.** *Diabetes care*

  Kanapka, L. G., Wadwa, R. P., Breton, M. D., Ruedy, K. J., Ekhlaspour, L., Forlenza, G. P., Cengiz, E., Schoelwer, M. J., Jost, E., Carria, L., Emory, E., Hsu, L. J., Weinzimer, et al

  2020

- **Safety and Performance of the Tandem t:slim X2 with Control-IQ Automated Insulin Delivery System in Toddlers and Preschoolers.** *Diabetes technology & therapeutics*

  Ekhlaspour, L., Schoelwer, M. J., Forlenza, G. P., DeBoer, M. D., Norlander, L., Hsu, L. J., Kingman, R. S., Boranian, E., Berget, C., Emory, E. G., Buckingham, B. A., Breton, M. D., Wadwa, et al

  2020

- **Clinical Management and Pump Parameter Adjustment of the Control-IQ Closed-loop Control System: Results from a 6-month Multicenter Randomized Clinical Trial.** *Diabetes technology & therapeutics*

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