



Bruce Buckingham

Professor of Pediatrics (Endocrinology) at the Lucile Salter Packard Children's Hospital
Pediatrics - Endocrinology and Diabetes

 NIH Biosketch available Online

CLINICAL OFFICES

- **Pediatric Endocrinology Clinic**

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Palo Alto, CA 94305

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Bio

CLINICAL FOCUS

- Pediatric Endocrinology
- Type 1 Diabetes Mellitus

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Residency: Children's Hospital Los Angeles Pediatric Residency (1974) CA
- Internship: Children's Hospital Los Angeles Pediatric Residency (1973) CA
- Medical Education: University of California San Diego School of Medicine Registrar (1972) 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

- Accelerometer Use in the Prevention of Exercise-Associated Hypoglycemia in Type 1 Diabetes: Outpatient Exercise Protocol, Recruiting
- Bigfoot Biomedical Clinical Research Center (CRC) Trial, Recruiting

- Evaluation of Fiasp® (Fast Acting Insulin Aspart) in 670G Hybrid Closed-Loop Therapy, Recruiting
- Glycemic Control and the Brain in Children With Type 1 Diabetes, Recruiting
- Initiation of Continuous Glucose Monitoring at Diagnosis of Type 1 Diabetes, Recruiting
- Remote Monitoring of Diabetes in Young Children With Type 1 Diabetes, Recruiting
- Safety Evaluation of the Hybrid Closed Loop (HCL) System in Pediatric Subjects With 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
- 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
- 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 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
- 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
- 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
- Reversal of Hypoglycemia Unawareness Using Continuous Glucose Monitoring, Not Recruiting
- Testing State of the Art Remote Glucose Monitoring at Diabetes Camp, Not Recruiting
- USS Virginia Closed-Loop Versus SAP Therapy for Hypoglycemia Reduction in T1D, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Research Mentor

Rayhan Lal

Publications

PUBLICATIONS

- **Successful At-Home Use of the Tandem Control-IQ Artificial Pancreas System in Young Children During a Randomized Controlled Trial.** *Diabetes technology & therapeutics*
Forlenza, G. P., Ekhlaspour, L., Breton, M., Maahs, D. M., Wadwa, R. P., DeBoer, M., Messer, L. H., Town, M., Pinnata, J., Kruse, G., Buckingham, B. A., Chernavsky, D.
2019
- **A Feasibility Study to Detect Neonatal Hypoglycemia in Infants of Diabetic Mothers Using Real-Time Continuous Glucose Monitoring.** *Diabetes technology & therapeutics*
Nally, L. M., Bondy, N., Doiev, J., Buckingham, B., Wilson, D. M.
2019
- **Identical and Nonidentical Twins: Risk and Factors Involved in Development of Islet Autoimmunity and Type 1 Diabetes** *DIABETES CARE*
Triolo, T. M., Fouts, A., Pyle, L., Yu, L., Gottlieb, P. A., Steck, A. K., Greenbaum, C. J., Atkinson, M., Baidal, D., Battaglia, M., Becker, D., Bingley, P., Bosi, et al
2019; 42 (2): 192–99
- **The International Diabetes Closed-Loop Study: Testing Artificial Pancreas Component Interoperability.** *Diabetes technology & therapeutics*
Anderson, S. M., Dassau, E., Raghinaru, D., Lum, J., Brown, S. A., Pinsker, J. E., Church, M. M., Levy, C., Lam, D., Kudva, Y. C., Buckingham, B., Forlenza, G. P., Wadwa, et al
2019
- **Safety Evaluation of the MiniMed 670G System in Children 7-13 Years of Age with Type 1 Diabetes.** *Diabetes technology & therapeutics*
Forlenza, G. P., Pinhas-Hamiel, O., Liljenquist, D. R., Shulman, D. I., Bailey, T. S., Bode, B. W., Wood, M. A., Buckingham, B. A., Kaiserman, K. B., Shin, J., Huang, S., Lee, S. W., Kaufman, et al
2018
- **In-Clinic Evaluation of the MiniMed 670G System "Suspend Before Low" Feature in Children with Type 1 Diabetes** *DIABETES TECHNOLOGY & THERAPEUTICS*
Wood, M. A., Shulman, D. I., Forlenza, G. P., Bode, B. W., Pinhas-Hamiel, O., Buckingham, B. A., Kaiserman, K. B., Liljenquist, D. R., Bailey, T. S., Shin, J., Huang, S., Chen, X., Cordero, et al
2018
- **Predictive Low-Glucose Suspend Reduces Hypoglycemia in Adults, Adolescents, and Children With Type 1 Diabetes in an At-Home Randomized Crossover Study: Results of the PROLOG Trial** *DIABETES CARE*
Forlenza, G. P., Li, Z., Buckingham, B. A., Pinsker, J. E., Cengiz, E., Wadwa, R., Ekhlaspour, L., Church, M., Weinzimer, S. A., Jost, E., Marcal, T., Andre, C., Carria, et al
2018; 41 (10): 2155–61
- **ISPAD Clinical Practice Consensus Guidelines 2018: Insulin treatment in children and adolescents with diabetes**
Danne, T., Phillip, M., Buckingham, B. A., Jarosz-Chobot, P., Saboo, B., Urakami, T., Battelino, T., Hanas, R., Codner, E.
WILEY.2018: 115–35
- **Psychosocial and Human Factors During a Trial of a Hybrid Closed Loop System for Type 1 Diabetes Management.** *Diabetes technology & therapeutics*
Adams, R. N., Tanenbaum, M. L., Hanes, S. J., Ambrosino, J. M., Ly, T. T., Maahs, D. M., Naranjo, D., Walders-Abramson, N., Weinzimer, S. A., Buckingham, B. A., Hood, K. K.
2018
- **Performance of the Omnipod Personalized Model Predictive Control Algorithm with Meal Bolus Challenges in Adults with Type 1 Diabetes.** *Diabetes technology & therapeutics*
Buckingham, B. A., Christiansen, M. P., Forlenza, G. P., Wadwa, R. P., Peyser, T. A., Lee, J. B., O'Connor, J., Dassau, E., Huyett, L. M., Layne, J. E., Ly, T. T.
2018
- **Sustained Continuous Glucose Monitor Use in Low-Income Youth with Type 1 Diabetes Following Insurance Coverage Supports Expansion of Continuous Glucose Monitor Coverage for All.** *Diabetes technology & therapeutics*
Pralhad, P., Addala, A., Buckingham, B., Wilson, D. M., Maahs, D. M.
2018
- **Persistence of abnormalities in white matter in children with type 1 diabetes** *DIABETOLOGIA*

- Fox, L. A., Hershey, T., Mauras, N., Arbelaez, A., Tamborlane, W. V., Buckingham, B., Tsalikian, E., Englert, K., Raman, M., Jo, B., Shen, H., Reiss, A., Mazaika, et al
2018; 61 (7): 1538–47
- **Advances in Care for Insulin-Requiring Patients Without Closed Loop.** *Diabetes technology & therapeutics*
Lal, R. A., Buckingham, B., Maahs, D. M.
2018; 20 (S2): S285–S291
 - **Need for Regulatory Change to Incorporate Beyond A1C Glycemic Metrics** *DIABETES CARE*
Alexander, C. M., Amiel, S., Beck, R., Bergenstal, R. M., Bloomgarden, Z., Brown, A., Buckingham, B., Cefalu, W. T., Close, K. L., Chin, I., Danne, T., DeSalvo, D., Dickinson, et al
2018; 41 (6): E92–E94
 - **Predictive hyperglycemia and hypoglycemia minimization: In-home double-blind randomized controlled evaluation in children and young adolescents** *PEDIATRIC DIABETES*
Forlenza, G. P., Raghinaru, D., Cameron, F., Bequette, B., Chase, H., Wadwa, R., Maahs, D. M., Jost, E., Ly, T. T., Wilson, D. M., Norlander, L., Ekhlaspour, L., Min, et al
2018; 19 (3): 420–28
 - **Fully Closed-Loop Multiple Model Probabilistic Predictive Controller Artificial Pancreas Performance in Adolescents and Adults in a Supervised Hotel Setting** *DIABETES TECHNOLOGY & THERAPEUTICS*
Forlenza, G. P., Cameron, F. M., Ly, T. T., Lam, D., Howsmon, D. P., Baysal, N., Kulina, G., Messer, L., Clinton, P., Levister, C., Patek, S. D., Levy, C. J., Wadwa, et al
2018; 20 (5): 335–43
 - **Glucose sensor-augmented continuous subcutaneous insulin infusion in patients with diabetic gastroparesis: An open-label pilot prospective study** *PLOS ONE*
Calles-Escandon, J., Koch, K. L., Hasler, W. L., Van Natta, M. L., Pasricha, P. J., Tonascia, J., Parkman, H. P., Hamilton, F., Herman, W. H., Basina, M., Buckingham, B., Earle, K., Kirkeby, et al
2018; 13 (4): e0194759
 - **HUMAN FACTORS DURING TRIAL OF A HYBRID CLOSED LOOP SYSTEM FOR TYPE 1 DIABETES MANAGEMENT**
Adams, R. N., Tanenbaum, M. L., Hanes, S. J., Ambrosino, J. M., Ly, T. T., Maahs, D. M., Naranjo, D., Walders-Abramson, N., Weinzimer, S. A., Buckingham, B. A., Hood, K. K.
OXFORD UNIV PRESS INC.2018: S718
 - **Safety and Feasibility of the OmniPod Hybrid Closed-Loop System in Adult, Adolescent, and Pediatric Patients with Type 1 Diabetes Using a Personalized Model Predictive Control Algorithm** *DIABETES TECHNOLOGY & THERAPEUTICS*
Buckingham, B. A., Forlenza, G. P., Pinsker, J. E., Christiansen, M. P., Wadwa, R., Schneider, J., Peyser, T. A., Dassau, E., Lee, J., O'Connor, J., Layne, J. E., Ly, T. T.
2018; 20 (4): 257–62
 - **The dawn of automated insulin delivery: A new clinical framework to conceptualize insulin administration** *PEDIATRIC DIABETES*
Messer, L. H., Forlenza, G. P., Wadwa, R., Weinzimer, S. A., Sherr, J. L., Hood, K. K., Buckingham, B. A., Slover, R. H., Maahs, D. M.
2018; 19 (1): 14–17
 - **Overnight Hypoglycemia and Hyperglycemia Mitigation for Individuals with Type 1 Diabetes HOW RISKS CAN BE REDUCED** *IEEE CONTROL SYSTEMS MAGAZINE*
Bequette, B., Cameron, F., Buckingham, B. A., Maahs, D. M., Lum, J.
2018; 38 (1): 125–34
 - **Large Changes in Brain Volume Observed in an Asymptomatic Young Child With Type 1 Diabetes.** *Diabetes care*
Mazaika, P. K., Aye, T., Reiss, A. L., Buckingham, B. A.
2018; 41 (7): 1535–37
 - **Impact of Early Diabetic Ketoacidosis on the Developing Brain.** *Diabetes care*
Aye, T., Mazaika, P. K., Mauras, N., Marzelli, M. J., Shen, H., Hershey, T., Cato, A., Weinzimer, S. A., White, N. H., Tsalikian, E., Jo, B., Reiss, A. L.
2018
 - **Real-Time Detection of Infusion Site Failures in a Closed-Loop Artificial Pancreas.** *Journal of diabetes science and technology*
Howsmon, D. P., Baysal, N., Buckingham, B. A., Forlenza, G. P., Ly, T. T., Maahs, D. M., Marcal, T., Towers, L., Mauritzen, E., Deshpande, S., Huyett, L. M., Pinsker, J. E., Gondhalekar, et al

2018; 12 (3): 599–607

- **Optimizing Hybrid Closed-Loop Therapy in Adolescents and Emerging Adults Using the MiniMed 670G System.** *Diabetes care*
Messer, L. H., Forlenza, G. P., Sherr, J. L., Wadwa, R. P., Buckingham, B. A., Weinzimer, S. A., Maahs, D. M., Slover, R. H.
2018; 41 (4): 789–96
- **Glycemic Variability Percentage: A Novel Method for Assessing Glycemic Variability from Continuous Glucose Monitor Data** *DIABETES TECHNOLOGY & THERAPEUTICS*
Peysner, T. A., Balo, A. K., Buckingham, B. A., Hirsch, I. B., Garcia, A.
2018; 20 (1): 6–16
- **A Practical Approach to Using Trend Arrows on the Dexcom G5 CGM System to Manage Children and Adolescents With Diabetes** *JOURNAL OF THE ENDOCRINE SOCIETY*
Laffel, L. M., Aleppo, G., Buckingham, B. A., Forlenza, G. P., Rasbach, L. E., Tsalikian, E., Weinzimer, S. A., Harris, D. R.
2017; 1 (12): 1461–76
- **Application of Glycemic Variability Percentage: Implications for Continuous Glucose Monitor Utilization and Analysis of Artificial Pancreas Data** *DIABETES TECHNOLOGY & THERAPEUTICS*
Garcia, A., Balo, A. K., Buckingham, B. A., Hirsch, I. B., Peysner, T. A.
2017; 19 (12): 699–706
- **Application of Zone Model Predictive Control Artificial Pancreas During Extended Use of Infusion Set and Sensor: A Randomized Crossover-Controlled Home-Use Trial.** *Diabetes care*
Forlenza, G. P., Deshpande, S., Ly, T. T., Howsmon, D. P., Cameron, F., Baysal, N., Mauritzen, E., Marcal, T., Towers, L., Bequette, B. W., Huyett, L. M., Pinsker, J. E., Gondhalekar, et al
2017
- **A Simple Composite Metric for the Assessment of Glycemic Status from Continuous Glucose Monitoring Data: Implications for Clinical Practice and the Artificial Pancreas** *DIABETES TECHNOLOGY & THERAPEUTICS*
Hirsch, I. B., Balo, A. K., Sayer, K., Garcia, A., Buckingham, B. A., Peysner, T. A.
2017; 19: S38–S48
- **Outpatient Closed-Loop Control with Unannounced Moderate Exercise in Adolescents Using Zone Model Predictive Control.** *Diabetes technology & therapeutics*
Huyett, L. M., Ly, T. T., Forlenza, G. P., Reuschel-DiVirgilio, S., Messer, L. H., Wadwa, R. P., Gondhalekar, R., Doyle, F. J., Pinsker, J. E., Maahs, D. M., Buckingham, B. A., Dassau, E.
2017
- **Pivotal Trial of a Hybrid-Closed Loop System in Type 1 Diabetes**
Burkett, L., Lee, S. W., Shin, J., Kaufman, F. R., Buckingham, B. A., Slover, R., Weinzimer, S.
ELSEVIER SCIENCE INC.2017: 106
- **Stabilization of glycemic control and improved quality of life using a shared medical appointment model in adolescents with type 1 diabetes in suboptimal control** *PEDIATRIC DIABETES*
Floyd, B. D., Block, J. M., Buckingham, B. B., Ly, T., Foster, N., Wright, R., Mueller, C. L., Hood, K. K., Shah, A. C.
2017; 18 (3): 204-212
- **Expectations and Attitudes of Individuals With Type 1 Diabetes After Using a Hybrid Closed Loop System** *DIABETES EDUCATOR*
Iturralde, E., Tanenbaum, M. L., Hanes, S. J., Suttiratana, S. C., Ambrosino, J. M., Ly, T. T., Maahs, D. M., Naranjo, D., Walders-Abramson, N., Weinzimer, S. A., Buckingham, B. A., Hood, K. K.
2017; 43 (2): 223-232
- **Compensatory Hyperconnectivity in Developing Brains of Young Children With Type 1 Diabetes** *DIABETES*
Saggar, M., Tsalikian, E., Mauras, N., Mazaika, P., White, N. H., Weinzimer, S., Buckingham, B., Hershey, T., Reiss, A. L.
2017; 66 (3): 754-762
- **Predictive Hyperglycemia and Hypoglycemia Minimization: In-Home Evaluation of Safety, Feasibility, and Efficacy in Overnight Glucose Control in Type 1 Diabetes.** *Diabetes care*
Spaic, T., Driscoll, M., Raghinaru, D., Buckingham, B. A., Wilson, D. M., Clinton, P., Chase, H. P., Maahs, D. M., Forlenza, G. P., Jost, E., Hramiak, I., Paul, T., Bequette, et al
2017; 40 (3): 359-366

- **Evaluation of a Predictive Low-Glucose Management System In-Clinic.** *Diabetes technology & therapeutics*
Buckingham, B. A., Bailey, T. S., Christiansen, M., Garg, S., Weinzimer, S., Bode, B., Anderson, S. M., Brazg, R., Ly, T., Kaufman, F. R.
2017
- **Glucose Outcomes with the In-Home Use of a Hybrid Closed-Loop Insulin Delivery System in Adolescents and Adults with Type 1 Diabetes.** *Diabetes technology & therapeutics*
Garg, S. K., Weinzimer, S. A., Tamborlane, W. V., Buckingham, B. A., Bode, B. W., Bailey, T. S., Brazg, R. L., Ilany, J., Slover, R. H., Anderson, S. M., Bergenstal, R. M., Grosman, B., Roy, et al
2017
- **Home use of a bihormonal bionic pancreas versus insulin pump therapy in adults with type 1 diabetes: a multicentre randomised crossover trial** *LANCET*
El-Khatib, F. H., Balliro, C., Hillard, M. A., Magyar, K. L., Ekhlaspour, L., Sinha, M., Mondesir, D., Esmaceli, A., Hartigan, C., Thompson, M. J., Malkani, S., Lock, J. P., Harlan, et al
2017; 389 (10067): 369-380
- **Continuous Glucose Monitoring Enables the Detection of Losses in Infusion Set Actuation (LISAs)** *SENSORS*
Howsmon, D. P., Cameron, F., Baysal, N., Ly, T. T., Forlenza, G. P., Maahs, D. M., Buckingham, B. A., Hahn, J., Bequette, B. W.
2017; 17 (1)
- **GLUCOSE CONTROL IN ADOLESCENTS WITH T1D DURING THE MEDTRONIC HYBRID CLOSED-LOOP PIVOTAL TRIAL**
Sherr, J., Weinzimer, S. A., Slover, R. H., Buckingham, B. A., Criego, A. B., Anderson, S. M., Bailey, T. S., Bode, B. W., Brazg, R. L., Garg, S. K., Ilany, J., Shin, J., Lee, et al
KARGER.2017: 46-47
- **Closed-Loop Control Without Meal Announcement in Type 1 Diabetes.** *Diabetes technology & therapeutics*
Cameron, F. M., Ly, T. T., Buckingham, B. A., Maahs, D. M., Forlenza, G. P., Levy, C. J., Lam, D., Clinton, P., Messer, L. H., Westfall, E., Levister, C., Xie, Y., Baysal, et al
2017; 19 (9): 527-32
- **International Consensus on Use of Continuous Glucose Monitoring.** *Diabetes care*
Danne, T., Nimri, R., Battelino, T., Bergenstal, R. M., Close, K. L., DeVries, J. H., Garg, S., Heinemann, L., Hirsch, I., Amiel, S. A., Beck, R., Bosi, E., Buckingham, et al
2017; 40 (12): 1631-40
- **Measures from Nonlinear Dynamics Reflect Glucose Current Sensor Degradation**
Mauritzen, E., Mandell, A., Tallman, D., Buckingham, B., In, Longhini, P., Palacios, A.
SPRINGER INTERNATIONAL PUBLISHING AG.2017: 189-93
- **Feasibility of Long-Term Closed-Loop Control: A Multicenter 6-Month Trial of 24/7 Automated Insulin Delivery** *DIABETES TECHNOLOGY & THERAPEUTICS*
Kovatchev, B., Cheng, P., Anderson, S. M., Pinsker, J. E., Boscari, F., Buckingham, B. A., Doyle, F. J., Hood, K. K., Brown, S. A., Breton, M. D., Chernavvsky, D., Bevier, W. C., Bradley, et al
2017; 19 (1): 18-?
- **Algorithms for a Single Hormone Closed-Loop Artificial Pancreas: Challenges Pertinent to Chemical Process Operations and Control** *PROCESSES*
Bequette, B., Cameron, F., Baysal, N., Howsmon, D. P., Buckingham, B. A., Maahs, D. M., Levy, C. J.
2016; 4 (4)
- **Early Detection of Infusion Set Failure During Insulin Pump Therapy in Type 1 Diabetes.** *Journal of diabetes science and technology*
Cescon, M., DeSalvo, D. J., Ly, T. T., Maahs, D. M., Messer, L. H., Buckingham, B. A., Doyle, F. J., Dassau, E.
2016; 10 (6): 1268-1276
- **Characteristics of youth with type 1 diabetes (T1D) with and without a parent with T1D in the T1D exchange clinic registry.** *Journal of diabetes*
Fox, L. A., Mubasher, M., Wolfsdorf, J. I., Buckingham, B. A., Peters, A. L., Tamborlane, W. V., Schatz, D. A., Maahs, D. M., Miller, K. M., Beck, R. W.
2016; 8 (6): 834-838
- **Efficacy of an Overnight Predictive Low-Glucose Suspend System in Relation to Hypoglycemia Risk Factors in Youth and Adults With Type 1 Diabetes.** *Journal of diabetes science and technology*
Calhoun, P. M., Buckingham, B. A., Maahs, D. M., Hramiak, I., Wilson, D. M., Aye, T., Clinton, P., Chase, P., Messer, L., Kollman, C., Beck, R. W., Lum, J.
2016; 10 (6): 1216-1221

- **Altered Integration of Structural Covariance Networks in Young Children With Type 1 Diabetes.** *Human brain mapping*
Hosseini, S. M., Mazaika, P., Mauras, N., Buckingham, B., Weinzimer, S. A., Tsalikian, E., White, N. H., Reiss, A. L.
2016; 37 (11): 4034-4046
- **Compensatory Hyper-Connectivity in Developing Brains of Young Children with Type 1 Diabetes.** *Diabetes*
Saggar, M., Tsalikian, E., Mauras, N., Mazaika, P., White, N. H., Weinzimer, S., Buckingham, B., Hershey, T., Reiss, A. L.
2016
- **Safety of a Hybrid Closed-Loop Insulin Delivery System in Patients With Type 1 Diabetes** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Bergenstal, R. M., Garg, S., Weinzimer, S. A., Buckingham, B. A., Bode, B. W., Tamborlane, W. V., Kaufman, F. R.
2016; 316 (13): 1407-8
- **Improving Patient Experience With Insulin Infusion Sets: Practical Guidelines and Future Directions.** *Diabetes educator*
Evert, A. B., Bode, B. W., Buckingham, B. A., Nardacci, E., Verderese, C. A., Wolff-McDonagh, P., Walsh, J., Hirsch, I. B.
2016; 42 (4): 470-484
- **Day-and-Night Closed-Loop Control Using the Unified Safety System in Adolescents With Type 1 Diabetes at Camp** *DIABETES CARE*
Ly, T. T., Buckingham, B. A., DeSalvo, D. J., Shanmugham, S., Satin-Smith, M., DeBoer, M. D., Oliveri, M. C., Schertz, E., Breton, M. D., Chernavsky, D. R.
2016; 39 (8): E106-E107
- **Continuous Glucose Sensor Survival and Accuracy Over 14 Consecutive Days** *DIABETES CARE*
DeSalvo, D. J., Ly, T. T., Wadwa, R., Messer, L., Westfall, E., Gopisetty, D., Hanes, S., von Eyben, R., Maahs, D. M., Buckingham, B. A.
2016; 39 (8): E112-E113
- **Ketone production in children with type 1 diabetes, ages 4-14 years, with and without nocturnal insulin pump suspension.** *Pediatric diabetes*
Wadwa, R. P., Chase, H. P., Raghinaru, D., Buckingham, B. A., Hramiak, I., Maahs, D. M., Messer, L., Ly, T., Aye, T., Clinton, P., Kollman, C., Beck, R. W., Lum, et al
2016
- **Duration of Infusion Set Survival in Lipohypertrophy Versus Nonlipohypertrophied Tissue in Patients with Type 1 Diabetes** *DIABETES TECHNOLOGY & THERAPEUTICS*
Karlin, A. W., Ly, T. T., Pyle, L., Forlenza, G. P., Messer, L., Wadwa, R. P., DeSalvo, D. J., Payne, S. L., Hanes, S., Clinton, P., Maahs, D. M., Buckingham, B.
2016; 18 (7): 429-435
- **Multinational Home Use of Closed-Loop Control Is Safe and Effective.** *Diabetes care*
Anderson, S. M., Raghinaru, D., Pinsker, J. E., Boscari, F., Renard, E., Buckingham, B. A., Nimri, R., Doyle, F. J., Brown, S. A., Keith-Hynes, P., Breton, M. D., Chernavsky, D., Bevier, et al
2016; 39 (7): 1143-1150
- **Outcome Measures for Artificial Pancreas Clinical Trials: A Consensus Report.** *Diabetes care*
Maahs, D. M., Buckingham, B. A., Castle, J. R., Cinar, A., Damiano, E. R., Dassau, E., DeVries, J. H., Doyle, F. J., Griffen, S. C., Haidar, A., Heinemann, L., Hovorka, R., Jones, et al
2016; 39 (7): 1175-1179
- **Automated Overnight Closed-Loop Control Using a Proportional-Integral-Derivative Algorithm with Insulin Feedback in Children and Adolescents with Type 1 Diabetes at Diabetes Camp** *DIABETES TECHNOLOGY & THERAPEUTICS*
Ly, T. T., Keenan, D. B., Roy, A., Han, J., Grosman, B., Cantwell, M., Kurtz, N., von Eyben, R., Clinton, P., Wilson, D. M., Buckingham, B. A.
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