



Bruce Buckingham

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

Pediatrics - Endocrinology and Diabetes

 NIH Biosketch available Online

CLINICAL OFFICES

- **Pediatric Endocrinology Clinic**

730 Welch Rd 1st Fl
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- **Center for Academic Medicine - Pediatric Endocrinology**

453 Quarry Road Rm 354
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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
- 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
- Pre-pivotal 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

- **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-Wuerttemberg, 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., Pinsky, 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., Pinsky, 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*
O'Malley, G., Messer, L. H., Levy, C., Pinsky, J. E., Forlenza, G. P., Isganaitis, E., Kudva, Y. C., Ekhlaspour, L., Raghinaru, D., Lum, J., Brown, S.
2020
- **Glucose Management during physical Activity/Sport by Using continuous Glucose Meters (CGM/isCGM) in Type 1 Diabetes - EASD/ISPAD Position Statement, supported by ADA and JDRF**
Moser, O., Riddell, M. C., Eckstein, M. L., Adolfsson, P., Rabasa-Lhoret, R., van den Boom, L., Gillard, P., Norgaard, K., Oliver, N. S., Zaharieva, D. P., Battelino, T., De Beaufort, C., Bergenstal, et al
SPRINGER WIEN.2020: S340-S341
- **Glucose management for exercise using continuous glucose monitoring (CGM) and intermittently scanned CGM (isCGM) systems in type 1 diabetes: position statement of the European Association for the Study of Diabetes (EASD) and of the International Society for Pediatric and Adolescent Diabetes (ISPAD) endorsed by JDRF and supported by the American Diabetes Association (ADA).** *Pediatric diabetes*
Moser, O., Riddell, M. C., Eckstein, M. L., Adolfsson, P., Rabasa-Lhoret, R., van den Boom, L., Gillard, P., Norgaard, K., Oliver, N. S., Zaharieva, D. P., Battelino, T., de Beaufort, C., Bergenstal, et al
2020
- **Glucose management for exercise using continuous glucose monitoring (CGM) and intermittently scanned CGM (isCGM) systems in type 1 diabetes: position statement of the European Association for the Study of Diabetes (EASD) and of the International Society for Pediatric and Adolescent Diabetes (ISPAD) endorsed by JDRF and supported by the American Diabetes Association (ADA).** *Diabetologia*
Moser, O., Riddell, M. C., Eckstein, M. L., Adolfsson, P., Rabasa-Lhoret, R., van den Boom, L., Gillard, P., Norgaard, K., Oliver, N. S., Zaharieva, D. P., Battelino, T., de Beaufort, C., Bergenstal, et al
2020
- **A Randomized Trial of Closed-Loop Control in Children with Type 1 Diabetes.** *The New England journal of medicine*
Breton, M. D., Kanapka, L. G., Beck, R. W., Ekhlaspour, L., Forlenza, G. P., Cengiz, E., Schoelwer, M., Ruedy, K. J., Jost, E., Carria, L., Emory, E., Hsu, L. J., Oliveri, et al
2020; 383 (9): 836-45
- **Clinically Significant Hypoglycemia Is Rare in Youth with T1D during Partial Clinical Remission**
Addala, A., Gu, A., Zaharieva, D., Prahalad, P., Buckingham, B. A., Scheinker, D., Maahs, D. M.
AMER DIABETES ASSOC.2020
- **Trust in hybrid closed loop among people with diabetes: Perspectives of experienced system users** *JOURNAL OF HEALTH PSYCHOLOGY*
Tanenbaum, M. L., Iturralde, E., 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.

2020; 25 (4): 429–38

- **Randomized Controlled Trial of Mobile Closed-Loop Control.** *Diabetes care*
Kovatchev, B., Anderson, S. M., Raghinaru, D., Kudva, Y. C., Laffel, L. M., Levy, C., Pinsky, J. E., Wadwa, R. P., Buckingham, B., Doyle, F. J., Brown, S. A., Church, M. M., Dadlani, et al
2020
- **Longitudinal Changes in Continuous Glucose Monitoring Use Among Individuals With Type 1 Diabetes: International Comparison in the German and Austrian DPV and U.S. T1D Exchange Registries.** *Diabetes care*
Miller, K. M., Hermann, J., Foster, N., Hofer, S. E., Rickels, M. R., Danne, T., Clements, M. A., Lilienthal, E., Maahs, D. M., Holl, R. W., T1D Exchange and DPV Registries, Weinstock, R., Izquierdo, R., et al
2020; 43 (1): e1–e2
- **A co-formulation of supramolecularly stabilized insulin and pramlintide enhances mealtime glucagon suppression in diabetic pigs.** *Nature biomedical engineering*
Maikawa, C. L., Smith, A. A., Zou, L. n., Roth, G. A., Gale, E. C., Stapleton, L. M., Baker, S. W., Mann, J. L., Yu, A. C., Correa, S. n., Grosskopf, A. K., Liong, C. S., Meis, et al
2020
- **Fast-Acting Insulin Aspart Use with the MiniMed™ 670G System.** *Diabetes technology & therapeutics*
Hsu, L. J., Buckingham, B. A., Basina, M. n., Ekhlaspour, L. n., von Eyben, R. n., Wang, J. n., Lal, R. A.
2020
- **Sensitive detection of multiple islet autoantibodies in type 1 diabetes using small sample volumes by agglutination-PCR.** *PLoS one*
Cortez, F. d., Gebhart, D., Robinson, P. V., Seftel, D., Pourmandi, N., Owyong, J., Bertozzi, C. R., Wilson, D. M., Maahs, D. M., Buckingham, B. A., Mills, J. R., Roforth, M. M., Pittock, et al
2020; 15 (11): e0242049
- **Closed-Loop Insulin Therapy Improves Glycemic Control in Adolescents and Young Adults: Outcomes from the International Diabetes Closed-Loop (iDCL) Trial.** *Diabetes technology & therapeutics*
Isganaitis, E. n., Raghinaru, D. n., Ambler-Osborn, L. n., Pinsky, J. E., Buckingham, B. A., Wadwa, R. P., Ekhlaspour, L. n., Kudva, Y. C., Levy, C. n., Forlenza, G. P., Beck, R. W., Kollman, C. n., Lum, et al
2020
- **Glycemic Outcomes of Use of CLC Versus PLGS in Type 1 Diabetes: A Randomized Controlled Trial.** *Diabetes care*
Brown, S. A., Beck, R. W., Raghinaru, D. n., Buckingham, B. A., Laffel, L. M., Wadwa, R. P., Kudva, Y. C., Levy, C. J., Pinsky, J. E., Dassau, E. n., Doyle, F. J., Ambler-Osborn, L. n., Anderson, et al
2020; 43 (8): 1822–28
- **Continuous Glucose Monitors and Automated Insulin Dosing Systems in the Hospital Consensus Guideline.** *Journal of diabetes science and technology*
Galindo, R. J., Umpierrez, G. E., Rushakoff, R. J., Basu, A. n., Lohnes, S. n., Nichols, J. H., Spanakis, E. K., Espinoza, J. n., Palermo, N. E., Awadje, D. G., Bak, L. n., Buckingham, B. n., Cook, et al
2020: 1932296820954163
- **First outpatient evaluation of a tubeless automated insulin delivery system with customizable glucose targets in children and adults with type 1 diabetes.** *Diabetes technology & therapeutics*
Forlenza, G. P., Buckingham, B. A., Brown, S. n., Bode, B. W., Levy, C. n., Criego, A. n., Wadwa, R. P., Cobry, E. n., Slover, R. J., Messer, L. n., Berget, C. n., McCoy, S. n., Ekhlaspour, et al
2020
- **Functional Near-Infrared Spectroscopy (fNIRS) detects increased activation of the brain frontal-parietal network in youth with type 1 diabetes.** *Pediatric diabetes*
Mazaika, P. K., Marzelli, M. n., Tong, G. n., Foland-Ross, L. C., Buckingham, B. A., Aye, T. n., Reiss, A. L.
2020
- **Brain Function Differences in Children With Type 1 Diabetes: An fMRI Study of Working Memory.** *Diabetes*
Foland-Ross, L. C., Tong, G. n., Mauras, N. n., Cato, A. n., Aye, T. n., Tansey, M. n., White, N. H., Weinzimer, S. A., Englert, K. n., Shen, H. n., Mazaika, P. K., Reiss, A. L.
2020
- **Executive task-based brain function in children with type 1 diabetes: An observational study.** *PLoS medicine*

- Foland-Ross, L. C., Buckingham, B., Mauras, N., Arbelaez, A. M., Tamborlane, W. V., Tsalikian, E., Cato, A., Tong, G., Englert, K., Mazaika, P. K., Reiss, A. L., Diabetes Research in Children Network (DirecNet)
2019; 16 (12): e1002979
- **Safety and Performance of the Omnipod Hybrid Closed-Loop System in Adults, Adolescents, and Children with Type 1 Diabetes Over 5 Days Under Free-Living Conditions.** *Diabetes technology & therapeutics*
Sherr, J., Buckingham, B. A., Forlenza, G., Galderisi, A., Ekhlaspour, L., Wadwa, R. P., Carria, L., Hsu, L. J., Berget, C. L., Peyser, T. A., Lee, J. B., O'Connor, J., Dumais, et al
2019
 - **Closed loop control in adolescents and children during winter sports: Use of the Tandem Control-IQ AP system** *PEDIATRIC DIABETES*
Ekhlaspour, L., Forlenza, G. P., Chernavsky, D., Maahs, D. M., Wadwa, R., Deboer, M. D., Messer, L. H., Town, M., Pinnata, J., Kruse, G., Kovatchev, B. P., Buckingham, B. A., Breton, et al
2019; 20 (6): 759–68
 - **Fluoroscopic-assisted laparoscopic retrieval of retained glucose sensor wire from the omentum.** *Clinical case reports*
Sang, A. X., Lal, R., August, A., Danzer, E., Buckingham, B., Mueller, C. M.
2019; 7 (9): 1717-1720
 - **Fluoroscopic-assisted laparoscopic retrieval of retained glucose sensor wire from the omentum** *CLINICAL CASE REPORTS*
Sang, A. X., Lal, R., August, A., Danzer, E., Buckingham, B., Mueller, C. M.
2019
 - **Realizing a Closed-Loop (Artificial Pancreas) System for the Treatment of Type 1 Diabetes.** *Endocrine reviews*
Lal, R. A., Ekhlaspour, L., Hood, K., Buckingham, B.
2019
 - **Clinical Targets for Continuous Glucose Monitoring Data Interpretation: Recommendations From the International Consensus on Time in Range.** *Diabetes care*
Battelino, T., Danne, T., Bergenstal, R. M., Amiel, S. A., Beck, R., Biester, T., Bosi, E., Buckingham, B. A., Cefalu, W. T., Close, K. L., Cobelli, C., Dassau, E., DeVries, et al
2019
 - **670G Clinical Experience**
Lal, R., Basina, M., Maahs, D. M., Buckingham, B. A., Hood, K. K., Conrad, B. P., Leverenz, J., Chmielewski, A., Peterson, K., Wilson, D.
AMER DIABETES ASSOC.2019
 - **A Review of Continuous Glucose Monitoring Data Interpretation in the Age of Automated Insulin Delivery.** *Journal of diabetes science and technology*
Ekhlaspour, L., Tabatabai, I., Buckingham, B.
2019: 1932296819851790
 - **Optimizing the use of continuous glucose monitoring in young children with type 1 diabetes with an adaptive study design and multiple randomizations.** *Contemporary clinical trials*
Berget, C., Driscoll, K. A., Lagges, A., Lange, S., DiMeglio, L. A., Hannon, T. S., Woerner, S. E., Iturralde, E., Barley, R. C., Hanes, S., Hood, K. K., Buckingham, B. B.
2019
 - **A Feasibility Study to Detect Neonatal Hypoglycemia in Infants of Diabetic Mothers Using Real-Time Continuous Glucose Monitoring** *DIABETES TECHNOLOGY & THERAPEUTICS*
Nally, L., Bondy, N., Doiev, J., Buckingham, B. A., Wilson, D. M.
2019; 21 (4): 170–76
 - **Performance of Omnipod Personalized Model Predictive Control Algorithm with Moderate Intensity Exercise in Adults with Type 1 Diabetes** *DIABETES TECHNOLOGY & THERAPEUTICS*
Forlenza, G. P., Buckingham, B. A., Christiansen, M. P., Wadwa, R., Peyser, T. A., Lee, J., O'Connor, J., Dassau, E., Huyett, L. M., Layne, J. E., Ly, T. T.
2019
 - **Performance of Omnipod Personalized Model Predictive Control Algorithm with Moderate Intensity Exercise in Adults with Type 1 Diabetes.** *Diabetes technology & therapeutics*
Forlenza, G. P., Buckingham, B. A., Christiansen, M. P., Wadwa, R. P., Peyser, T. A., Lee, J. B., O'Connor, J., Dassau, E., Huyett, L. M., Layne, J. E., Ly, T. T.
2019

- **Successful At-Home Use of the Tandem Control-IQ Artificial Pancreas System in Young Children During a Randomized Controlled Trial** *DIABETES TECHNOLOGY & THERAPEUTICS*
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