



## David Maahs

Professor of Pediatrics (Endocrinology) and, by courtesy, of Health Research and Policy (Epidemiology) at the Lucile Salter Packard Children's Hospital and at the Stanford University Medical Center

Pediatrics - Endocrinology and Diabetes

 NIH Biosketch available Online

### CLINICAL OFFICES

- **Pediatric Endocrinology**

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### Bio

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#### BIO

Dr David M. Maahs is Professor of Pediatrics and Division Chief of Pediatric Endocrinology at Stanford University and the Lucile Packard Children's Hospital. He earned his MD followed by Pediatric Residency at the University of New Mexico. After 3 years on New Mexico's faculty, Dr. Maahs completed a Pediatric Endocrinology fellowship and a concurrent PhD in Epidemiology at the University of Colorado. He remained on Colorado's faculty for 10 years, advancing to Professor of Pediatrics before moving to Stanford. Prior to his medical career, Dr. Maahs received a BA and MA in English from the University of Kansas and was inspired to pursue a medical career after serving in the Peace Corps with assignments in Tunisia and the Central African Republic.

Dr. Maahs' leadership experiences include being a past co-Chair (2013-16) for Protocols and Publications with the Type 1 Diabetes Exchange for which he continues as a Steering Committee member and Director of International Collaborations. This complements his role as Secretary-General for the International Society of Pediatric and Adolescent Diabetes (ISPAD, 2016-20) and Editor-in-Chief for the 2018 ISPAD Clinical Practice Consensus Guidelines. He currently serves on the Professional Practice Committee for the American Diabetes Association (ADA, 2016-18), which writes the annual ADA Standards of Care. Previously, he served on the ADA Scientific Sessions committee representing the Council on Youth. He has also served on national committees for the American Heart Association, the Pediatric Endocrine Society, and multiple journal editorial boards and review committees.

His scholarly interest is improving care and preventing complications in people with type 1 diabetes (T1D). Along with Dr Peter Chase, he is author of the 12th and 13th editions of Understanding Diabetes, or 'Pink Panther,' which are the most widely used educational books for children newly diagnosed with T1D, distributed internationally by the Juvenile Diabetes Research Fund (JDRF). More specifically, he has conducted epidemiologic studies that help generate hypotheses for clinical studies, including trials to develop artificial pancreas systems to improve glucose control, lower disease burden, and prevent diabetic complications. He is author or co-author of over 250 research publications. His multi-disciplinary research has been funded by the JDRF, the National Institutes of Diabetes and Digestive and Kidney Diseases (NIDDK), the Helmsley Charitable Trust, and the National Science Foundation (NSF).

Dr Maahs is Associate Director for the recently formed and NIDDK P30 funded Stanford University Diabetes Research Center (<https://sdrf.stanford.edu>). His collaborations extend to his role as Principal Investigator (PI) or steering committee member for NIH funded multi-center clinical trials including the FLEX, PERL, and ACTION studies as well as multiple Artificial Pancreas clinical trials. Education, mentorship, and training leadership includes being Program Director with Dr. Georgeanna Klingensmith on the Barbara Davis Center T32 and K12 training grants in Pediatric Endocrinology while at the University of Colorado.

While in the Peace Corps, David met his wife, Christine Walravens, who is also a Pediatrician at Stanford. They enjoy outdoor activities and traveling with their children, Nicholas (20) and Natalia (15).

## **CLINICAL FOCUS**

- Pediatric Endocrinology

## **ACADEMIC APPOINTMENTS**

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

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Associate Editor, Diabetes Technology and Therapeutics (2011 - 2013)
- Co-Chair for Protocols and Publications, Type 1 Diabetes Exchange (2013 - 2016)
- Steering Committee, Type 1 Diabetes Exchange (2013 - 2019)
- Editorial Board, Diabetes Technology and Therapeutics (2013 - present)
- Editor in Chief, ISPAD Guidelines 2018 (2016 - 2018)
- Secretary-General, International Society of Pediatric and Adolescent Diabetes (2016 - present)
- Associate Editor, Diabetic Medicine (2017 - 2019)
- Professional Practice Committee, American Diabetes Association (2017 - 2019)
- Editorial Board, Journal of Pediatrics (2017 - present)

## **PROFESSIONAL EDUCATION**

- Medical Education: University of New Mexico School of Medicine (1997) NM
- PhD, University of Colorado , Analytic Health Sciences/Epidemiology (2010)
- MA, University of Kansas , English (1990)
- BA, University of Kansas , English (1988)
- Board Certification: Pediatric Endocrinology, American Board of Pediatrics (2007)
- Fellowship: University of Colorado Childrens Hospital (2006) CO
- Board Certification: Pediatrics, American Board of Pediatrics (2000)
- Residency: University of New Mexico Pediatric Residency (2000) NM

## **COMMUNITY AND INTERNATIONAL WORK**

- International Society of Pediatric and Adolescent Diabetes (ISPAD)

## **LINKS**

- Stanford Diabetes Research Center: <https://sdrf.stanford.edu/>

## Research & Scholarship

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### CLINICAL TRIALS

- Remote Monitoring of Diabetes in Young Children With Type 1 Diabetes, Recruiting

### Publications

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#### PUBLICATIONS

- **Optimizing Basal Insulin Dosing.** *The Journal of pediatrics*  
Lal, R. A., Maahs, D. M.  
2019
- **Identification of clinically relevant dysglycemia phenotypes based on continuous glucose monitoring data from youth with type 1 diabetes and elevated hemoglobin A1c** *PEDIATRIC DIABETES*  
Kahkoska, A. R., Adair, L. A., Aiello, A. E., Burger, K. S., Buse, J. B., Crandell, J., Maahs, D. M., Nguyen, C. T., Kosorok, M. R., Mayer-Davis, E. J.  
2019; 20 (5): 556–66
- **Preventing Early Renal Loss in Diabetes (PERL) Study: A Randomized Double-Blinded Trial of Allopurinol-Rationale, Design, and Baseline Data** *DIABETES CARE*  
Afkarian, M., Polsky, S., Parsa, A., Aronson, R., Caramori, M., Cherney, D. Z., Crandall, J. P., de Boer, I. H., Elliott, T. G., Galecki, A. T., Goldfine, A. B., Haw, J., Hirsch, et al  
2019; 42 (8): 1454–63
- **Using Patient Reported Outcomes in Diabetes Research and Practice: Recommendations from a National Workshop.** *Diabetes research and clinical practice*  
Marrero, D. G., Hilliard, M. E., Maahs, D. M., McAuliffe-Fogarty, A. H., Hunter, C. M.  
2019
- **Disordered Eating Behaviors in Youth and Young Adults With Type 1 or Type 2 Diabetes Receiving Insulin Therapy: The SEARCH for Diabetes in Youth Study** *DIABETES CARE*  
Nip, A. Y., Reboussin, B. A., Dabelea, D., Bellatorre, A., Mayer-Davis, E. J., Kahkoska, A. R., Lawrence, J. M., Peterson, C. M., Dolan, L., Pihoker, C.  
2019; 42 (5): 859–66
- **Estimating Dynamic Treatment Regimes in Mobile Health Using V-Learning** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*  
Lockett, D. J., Laber, E. B., Kahkoska, A. R., Maahs, D. M., Mayer-Davis, E., Kosorok, M. R.  
2019
- **Identification of clinically-relevant dysglycemia phenotypes based on continuous glucose monitoring data from youth with type 1 diabetes and elevated hemoglobin A1c.** *Pediatric diabetes*  
Kahkoska, A. R., Adair, L. A., Aiello, A. E., Burger, K. S., Buse, J. B., Crandell, J., Maahs, D. M., Nguyen, C. T., Kosorok, M. R., Mayer-Davis, E. J.  
2019
- **Genetic Determinants of Glycated Hemoglobin in Type 1 Diabetes** *DIABETES*  
Syreeni, A., Sandholm, N., Cao, J., Toppila, I., Maahs, D. M., Rewers, M. J., Snell-Bergeon, J. K., Costacou, T., Orchard, T. J., Caramori, M., Mauer, M., Klein, B. K., Klein, et al  
2019; 68 (4): 858–67
- **Gluconeogenesis and Insulin in the Ketotic Variety of Childhood Hypoglycemia and in Control Children** *JOURNAL OF PEDIATRICS*  
Addala, A., Maahs, D. M.  
2019; 207: 122
- **Cortisol Secretion in Acidotic and Nonacidotic Juvenile Diabetes Mellitus** *JOURNAL OF PEDIATRICS*  
Cooper, H. C., Maahs, D. M.  
2019; 207: 175–+
- **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

- **50 Years Ago in The Journal of Pediatrics: The Effect of Arginine Infusion on Plasma Growth Hormone and Insulin in Children.** *The Journal of pediatrics*  
Zegarra, W., Rosenfeld, R., Maahs, D. M.  
2019; 205: 217
- **Diabetes Technology and Therapy in the Pediatric Age Group.** *Diabetes technology & therapeutics*  
Maahs, D. M., Lal, R., Shalitin, S.  
2019; 21 (S1): S123–S137
- **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 Effect of Arginine Infusion on Plasma Growth Hormone and Insulin in Children** *JOURNAL OF PEDIATRICS*  
Zegarra, W., Rosenfeld, R., Maahs, D. M.  
2019; 205: 217
- **Genetic Determinants of Glycated Hemoglobin in Type 1 Diabetes.** *Diabetes*  
Syreeni, A., Sandholm, N., Cao, J., Toppila, I., Maahs, D. M., Rewers, M. J., Snell-Bergeon, J. K., Costacou, T., Orchard, T. J., Caramori, M. L., Mauer, M., Klein, B. E., Klein, et al  
2019
- **State of Type 1 Diabetes Management and Outcomes from the T1D Exchange in 2016-2018.** *Diabetes technology & therapeutics*  
Foster, N. C., Beck, R. W., Miller, K. M., Clements, M. A., Rickels, M. R., DiMeglio, L. A., Maahs, D. M., Tamborlane, W. V., Bergenstal, R., Smith, E., Olson, B. A., Garg, S. K.  
2019
- **Serum uromodulin is associated with urinary albumin excretion in adolescents with type 1 diabetes.** *Journal of diabetes and its complications*  
Wiromrat, P., Bjornstad, P., Roncal, C., Pyle, L., Johnson, R. J., Cherney, D. Z., Lipina, T., Bishop, F., Maahs, D. M., Wadwa, R. P.  
2019
- **Five heterogeneous HbA1c trajectories from childhood to adulthood in youth with type 1 diabetes from three different continents - a group-based modeling approach.** *Pediatric diabetes*  
Clements, M. A., Schwandt, A., Donaghue, K. C., Miller, K., Lück, U., Couper, J. J., Foster, N., Schröder, C., Phelan, H., Maahs, D., Prinz, N., Craig, M. E.  
2019
- **Assessment of a Precision Medicine Analysis of a Behavioral Counseling Strategy to Improve Adherence to Diabetes Self-management Among Youth: A Post Hoc Analysis of the FLEX Trial.** *JAMA network open*  
Kahkoska, A. R., Lawson, M. T., Crandell, J., Driscoll, K. A., Kichler, J. C., Seid, M., Maahs, D. M., Kosorok, M. R., Mayer-Davis, E. J.  
2019; 2 (5): e195137
- **50 Years Ago in The Journal of Pediatrics: Gluconeogenesis and Insulin in the Ketotic Variety of Childhood Hypoglycemia and in Control Children.** *The Journal of pediatrics*  
Addala, A., Maahs, D. M.  
2019; 207: 122
- **50 Years Ago in The Journal of Pediatrics: Cortisol Secretion in Acidotic and Nonacidotic Juvenile Diabetes Mellitus.** *The Journal of pediatrics*  
Cooper, H. C., Maahs, D. M.  
2019; 207: 175
- **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., Chernavvsky, D., Maahs, D. M., Wadwa, R. P., DeBoer, M. D., Messer, L. H., Town, M., Pinnata, J., Kruse, G., Kovatchev, B. P., Buckingham, B. A., Breton, et al  
2019
- **Hemoglobin A1c Trajectory in Pediatric Patients with Newly Diagnosed Type 1 Diabetes.** *Diabetes technology & therapeutics*  
Prahald, P., Yang, J., Scheinker, D., Desai, M., Hood, K., Maahs, D. M.  
2019
- **Dysglycemia among youth with type 1 diabetes and suboptimal glycemic control in The Flexible Lifestyle Empowering Change (FLEX) trial.** *Pediatric diabetes*

- Kahkoska, A. R., Crandell, J., Driscoll, K. A., Kichler, J. C., Seid, M., Mayer-Davis, E. J., Maahs, D. M.  
2018
- **Two-step recruitment process optimizes retention in FLEX clinical trial.** *Contemporary clinical trials communications*  
Standford, D. A., Morwessel, N., Bishop, F. K., Thomas, J. M., Smith, E., Crandell, J., Driscoll, K. A., Hunter, C. M., Kichler, J. C., Maahs, D. M., Mayer-Davis, E. J., Seid, M.  
2018; 12: 68–75
  - **Co-occurrence of early diabetes-related complications in adolescents and young adults with type 1 diabetes: an observational cohort study.** *The Lancet. Child & adolescent health*  
Sauder, K. A., Stafford, J. M., Mayer-Davis, E. J., Jensen, E. T., Saydah, S., Mottl, A., Dolan, L. M., Hamman, R. F., Lawrence, J. M., Pihoker, C., Marcovina, S., D'Agostino, R. B., Dabelea, et al  
2018
  - **Continuous glucose monitoring and glycemic control among youth with type 1 diabetes: International comparison from the T1D Exchange and DPV Initiative** *PEDIATRIC DIABETES*  
DeSalvo, D. J., Miller, K. M., Hermann, J. M., Maahs, D. M., Hofer, S. E., Clements, M. A., Lilienthal, E., Sherr, J. L., Tauschmann, M., Holl, R. W., T1D Exchange Registry, DPV Registry  
2018; 19 (7): 1271–75
  - **The early natural history of albuminuria in young adults with youth-onset type 1 and type 2 diabetes.** *Journal of diabetes and its complications*  
Kahkoska, A. R., Isom, S., Divers, J., Mayer-Davis, E. J., Dolan, L., Shah, A. S., Afkarian, M., Pettitt, D. J., Lawrence, J. M., Marcovina, S., Saydah, S. H., Dabelea, D., Maahs, et al  
2018
  - **ISPAD Clinical Practice Consensus Guidelines 2018: Diabetes technologies**  
Sherr, J. L., Tauschmann, M., Battelino, T., de Bock, M., Forlenza, G., Roman, R., Hood, K. K., Maahs, D. M.  
WILEY.2018: 302–25
  - **Obesity in Type 1 Diabetes: Pathophysiology, Clinical Impact, and Mechanisms** *ENDOCRINE REVIEWS*  
Corbin, K. D., Driscoll, K. A., Pratley, R. E., Smith, S. R., Maahs, D. M., Mayer-Davis, E. J., Adv Care Type 1 Diabet Obesity  
2018; 39 (5): 629–63
  - **ISPAD Clinical Practice Consensus Guidelines 2018: Glycemic control targets and glucose monitoring for children, adolescents, and young adults with diabetes**  
DiMeglio, L. A., Acerini, C. L., Codner, E., Craig, M. E., Hofer, S. E., Pillay, K., Maahs, D. M.  
WILEY.2018: 105–14
  - **ISPAD Clinical Practice Consensus Guidelines 2018: The delivery of ambulatory diabetes care to children and adolescents with diabetes**  
Pihoker, C., Forsander, G., Fantahun, B., Virmani, A., Corathers, S., Benitez-Aguirre, P., Fu, J., Maahs, D. M.  
WILEY.2018: 84–104
  - **ISPAD Clinical Practice Consensus Guidelines 2018: Introduction to the Limited Care guidance appendix**  
Codner, E., Acerini, C., Craig, M. E., Hofer, S., Maahs, D. M.  
WILEY.2018: 326–27
  - **ISPAD Clinical Practice Consensus Guidelines 2018: What is new in diabetes care?** *PEDIATRIC DIABETES*  
Codner, E., Acerini, C. L., Craig, M. E., Hofer, S. E., Maahs, D. M.  
2018; 19: 5–6
  - **ISPAD Clinical Practice Consensus Guidelines 2018: Assessment and management of hypoglycemia in children and adolescents with diabetes**  
Abraham, M. B., Jones, T. W., Naranjo, D., Karges, B., Oduwole, A., Tauschmann, M., Maahs, D. M.  
WILEY.2018: 178–92
  - **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
  - **Efficacy of the Flexible Lifestyles Empowering Change intervention on metabolic and psychosocial outcomes in adolescents with type 1 diabetes (FLEX): a randomised controlled trial** *LANCET CHILD & ADOLESCENT HEALTH*

- Mayer-Davis, E. J., Maahs, D. M., Seid, M., Crandell, J., Bishop, F. K., Driscoll, K. A., Hunter, C. M., Kichler, J. C., Standiford, D., Thomas, J. M., FLEX Study Grp  
2018; 2 (9): 635–46
- **Type 1 Diabetes in Children and Adolescents: A Position Statement by the American Diabetes Association** *DIABETES CARE*  
Chiang, J. L., Maahs, D. M., Garvey, K. C., Hood, K. K., Laffel, L. M., Weinzimer, S. A., Wolfsdorf, J. I., Schatz, D.  
2018; 41 (9): 2026–44
  - **Age at type 1 diabetes onset: a new risk factor and call for focused treatment** *LANCET*  
Basina, M., Maahs, D. M.  
2018; 392 (10146): 453–54
  - **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
  - **Can Real World Evidence on Body Mass Index Trajectories Inform Clinical Practice?** *The Journal of pediatrics*  
Addala, A., Maahs, D. M.  
2018
  - **Type 2 diabetes mellitus (T2DM) in youth.** *Pediatric diabetes*  
Zeitler, P., Arslanian, S., Fu, J., Pinhas-Hamiel, O., Reinehr, T., Tandon, N., Urakami, T., Wong, J., Maahs, D. M.  
2018
  - **Diabetes Technology Use Among Pregnant and Nonpregnant Women with T1D in the T1D Exchange.** *Diabetes technology & therapeutics*  
Polsky, S., Wu, M., Bode, B. W., DuBose, S. N., Goland, R. S., Maahs, D. M., Foster, N. C., Peters, A. L., Levy, C. J., Shah, V. N., Beck, R. W.  
2018
  - **Eating patterns and food intake of persons with type 1 diabetes within the T1D exchange** *DIABETES RESEARCH AND CLINICAL PRACTICE*  
Powers, M. A., Gal, R. L., Connor, C. G., Mangan, M., Maahs, D. M., Clements, M. A., Mayer-Davis, E. J.  
2018; 141: 217–28
  - **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
  - **Exploring Variation in Glycemic Control Across and Within Eight High-Income Countries: A Cross-sectional Analysis of 64,666 Children and Adolescents With Type 1 Diabetes** *DIABETES CARE*  
Charalamopoulos, D., Hermann, J. M., Svensson, J., Skrivvarhaug, T., Maahs, D. M., Akesson, K., Warner, J. T., Holl, R. W., Birkebaek, N. H., Drivvoll, A. K., Miller, K. M., Svensson, A., Stephenson, et al  
2018; 41 (6): 1180–87
  - **Guidelines to Practice: Identifying Barriers to Cardiovascular Health Management in Pediatric Type 1 Diabetes.** *The Journal of pediatrics*  
Maahs, D. M.  
2018; 197: 14–15
  - **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
  - **Meta-genome-wide association studies identify a locus on chromosome 1 and multiple variants in the MHC region for serum C-peptide in type 1 diabetes** *DIABETOLOGIA*  
Roshandel, D., Gubitosi-Klug, R., Bull, S. B., Canty, A. J., Pezzolesi, M. G., King, G. L., Keenan, H. A., Snell-Bergeon, J. K., Maahs, D. M., Klein, R., Klein, B. K., Orchard, T. J., Costacou, et al  
2018; 61 (5): 1098–1111
  - **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
- **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
  - **Sex-specific differences in insulin resistance in type 1 diabetes: The CACTI cohort** *JOURNAL OF DIABETES AND ITS COMPLICATIONS*  
Millstein, R. J., Pyle, L. L., Bergman, B. C., Eckel, R. H., Maahs, D. M., Rewers, M. J., Schauer, I. E., Snell-Bergeon, J. K.  
2018; 32 (4): 418–23
  - **Role of bicarbonate supplementation on urine uric acid crystals and diabetic tubulopathy in adults with type 1 diabetes.** *Diabetes, obesity & metabolism*  
Bjornstad, P., Maahs, D. M., Roncal, C. A., Snell-Bergeon, J. K., Shah, V. N., Milagres, T., Ellis, S. L., Hatch, M., Chung, L. T., Rewers, M. J., Garg, S., Cherney, D. Z., Pyle, et al  
2018
  - **Quantifying genetic susceptibility in T1DM-implications for diagnosis after age 30** *NATURE REVIEWS ENDOCRINOLOGY*  
Meyer, E., Maahs, D. M.  
2018; 14 (3): 134–35
  - **The Flexible Lifestyle Empowering Change (FLEX) intervention for self-management in adolescents with type 1 diabetes: Trial design and baseline characteristics** *CONTEMPORARY CLINICAL TRIALS*  
Kichler, J. C., Seid, M., Crandell, J., Maahs, D. M., Bishop, F. K., Driscoll, K. A., Standiford, D., Hunter, C. M., Mayer-Davis, E.  
2018; 66: 64–73
  - **Macrovascular disease and risk factors in youth with type 1 diabetes: time to be more attentive to treatment?** *The lancet. Diabetes & endocrinology*  
Bjornstad, P., Donaghue, K. C., Maahs, D. M.  
2018
  - **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
  - **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
  - **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
  - **Increasing Use of Continuous Glucose Monitoring (CGM) Among Youth with Type 1 Diabetes (T1D): Icomparison of Youth from the T1D Exchange (T1DX) and the DPV Initiative**  
Miller, K., Hermann, J., Maahs, D., Hofer, S., Foster, N., Holl, R.  
KARGER.2018: 219–20
  - **Age at type 1 diabetes onset: a new risk factor and call for focused treatment.** *Lancet (London, England)*  
Basina, M., Maahs, D. M.  
2018; 392 (10146): 453–54
  - **50 Years Ago in The Journal of Pediatrics: Familial Holoprosencephaly with Endocrine Dysgenesis.** *The Journal of pediatrics*  
Chang, M., Wilson, D. M., Maahs, D. M.  
2018; 192: 98

- **ISPAD Annual Conference 2017 Highlights.** *Pediatric diabetes*  
Agwu, J. C., Idkowiak, J., Bull, L., Ng, S. M., Dov#, K., Ngwu, U., Calliari, L. E., Maahs, D. M.  
2018; 19 (5): 855–58
- **Measured GFR in Routine Clinical Practice-The Promise of Dried Blood Spots** *ADVANCES IN CHRONIC KIDNEY DISEASE*  
Bjornstad, P., Karger, A. B., Maahs, D. M.  
2018; 25 (1): 76–83
- **Familial Holoprosencephaly with Endocrine Dysgenesis** *JOURNAL OF PEDIATRICS*  
Chang, M., Wilson, D. M., Maahs, D. M.  
2018; 192: 98
- **Dynamic changes in retinal vessel diameter during acute hyperglycemia in type 1 diabetes.** *Journal of diabetes and its complications*  
Bucca, B. C., Maahs, D. M., Snell-Bergeon, J. K., Hokanson, J., Rinella, S., Bishop, F., Boufard, A., Homann, J., Cheung, C. Y., Wong, T. Y.  
2018; 32 (2): 234–39
- **Diabetes Technology and Therapy in the Pediatric Age Group.** *Diabetes technology & therapeutics*  
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