

# Stanford

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## Tandy Aye

Associate Professor of Pediatrics (Endocrinology) at the Lucile Salter Packard Children's Hospital and, by courtesy, of Psychiatry and Behavioral Sciences  
Pediatrics - Endocrinology and Diabetes

### CLINICAL OFFICES

- **Stanford Children's Health Specialty Services Sunnyvale**

1195 W Fremont Ave

Sunnyvale, CA 94087

Tel (408) 426-5590      Fax

- **Specialty Center South Bay**

14777 Los Gatos Blvd Ste 200

Los Gatos, CA 95032

Tel (408) 356-0911      Fax

### Bio

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### CLINICAL FOCUS

- Endocrinology/Diabetes, Pediatric
- Pediatric Endocrinology
- Healthcare of Gender Nonconforming Youth
- Type 1 Diabetes

### ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Pediatrics - Endocrinology and Diabetes
- Associate Professor - Med Center Line (By courtesy), Psychiatry and Behavioral Sciences - Center for Interdisciplinary Brain Sciences Research
- Member, Maternal & Child Health Research Institute (MCHRI)

### ADMINISTRATIVE APPOINTMENTS

- Fellowship Program Director, Pediatric Endocrinology and Diabetes, (2011 - present)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Committee Chair, Pediatric Endocrine Society Training Council (2017 - present)
- Member, Pediatric Endocrine Society (2002 - present)
- Secretary/Treasurer, Council of Pediatric Subspecialties (2017 - present)
- Member, American Diabetes Association (2005 - present)
- Member, Association of Pediatric Program Directors (2011 - present)
- Member, Pediatric Endocrine Society Training Committee (2013 - present)

## PROFESSIONAL EDUCATION

- Residency: Children's Hospital of Philadelphia Pediatric Residency (2002) PA
- Internship: Children's Hospital of Philadelphia Pediatric Residency (2000) PA
- Board Certification: Pediatrics, American Board of Pediatrics (2002)
- Research Fellow, Joslin Diabetes Center , Beta Cell (2005)
- Fellowship: Massachusetts General Hospital (2005) MA
- Medical Education: Jefferson Medical College (1999) PA
- Board Certification: Pediatric Endocrinology, American Board of Pediatrics (2007)

## Research & Scholarship

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### CLINICAL TRIALS

- Diabetic Ketoacidosis and Its Impact on the Brain, Recruiting
- Evaluation of a Non-invasive Brain Compliance Measurement Device, Recruiting
- Salivary Cortisol Measurements by Mass Spectrometry, Recruiting
- Continuous Glucose Monitor Use in School, Not Recruiting
- Glycemic Control and the Brain in Children With Type 1 Diabetes, Not Recruiting
- Neuropsychological and Neuroanatomical Studies of Young Children With and Without Type 1 Diabetes Mellitus, Not Recruiting
- The Effects of High and Low Blood Glucose Values on the Brain in Children With Type 1 Diabetes Mellitus, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Holly Cooper, Walter Zegarra

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Endocrinology (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Eating Disorder Screening in Transgender Youth.** *The Journal of adolescent health : official publication of the Society for Adolescent Medicine*  
Avila, J. T., Golden, N. H., Aye, T.  
2019
- **EATING DISORDER SCREENING IN GENDER MINORITY ADOLESCENTS AND YOUNG ADULTS**  
Avila, J., Golden, N., Aye, T.  
ELSEVIER SCIENCE INC.2019: S102-S103
- **Challenges with Patient Adoption of Automated Integration of Blood Glucose Meter Data in the Electronic Health Record.** *Diabetes technology & therapeutics*  
Weatherly, J., Kishnani, S., Aye, T.  
2019
- **Challenges of Funding Pediatric Fellowship Programs-Invited Commentary from the Council of Pediatric Subspecialties.** *The Journal of pediatrics*  
Heyman, M. B., Weiss, P., Boyer, D., Fussell, J., Imundo, L., Aye, T., Jarjour, I. T., Spicer, R., Bale, J.  
2019; 204: 4

- **Impact of Sex and Maturation on Trabecular and Cortical Microarchitecture in Children and Young Adults**  
Aye, T., Kent, K., Long, J., Whalen, J., Strickland, A., Burghardt, A., Leonard, M. B.  
WILEY.2018: 209–10
- **Care of the Transgender Adolescent with Type 1 Diabetes**  
Avila, J., Aye, T.  
AMER DIABETES ASSOC.2018
- **Longitudinal assessment of hippocampus structure in children with type 1 diabetes.** *Pediatric diabetes*  
Foland-Ross, L. C., Reiss, A. L., Mazaika, P. K., Mauras, N., Weinzimer, S. A., Aye, T., Tansey, M. J., White, N. H., Diabetes Research in Children Network (DirecNet)  
2018
- **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
- **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
- **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
- **Changes in beta cell function during the proximate post-diagnosis period in persons with type 1 diabetes** *PEDIATRIC DIABETES*  
Dimeglio, L. A., Cheng, P., Beck, R. W., Kollman, C., Ruedy, K. J., Slover, R., Aye, T., Weinzimer, S. A., Bremer, A. A., Buckingham, B.  
2016; 17 (4): 237-243
- **Longitudinal Evaluation of Cognitive Functioning in Young Children with Type 1 Diabetes over 18 Months.** *Journal of the International Neuropsychological Society*  
Cato, M. A., Mauras, N., Mazaika, P., Kollman, C., Cheng, P., Aye, T., Ambrosino, J., Beck, R. W., Ruedy, K. J., Reiss, A. L., Tansey, M., White, N. H., Hershey, et al  
2016; 22 (3): 293-302
- **Variations in Brain Volume and Growth in Young Children With Type 1 Diabetes.** *Diabetes*  
Mazaika, P. K., Weinzimer, S. A., Mauras, N., Buckingham, B., White, N. H., Tsalikian, E., Hershey, T., Cato, A., Aye, T., Fox, L., Wilson, D. M., Tansey, M. J., Tamborlane, et al  
2016; 65 (2): 476-485
- **Predictive Low-Glucose Insulin Suspension Reduces Duration of Nocturnal Hypoglycemia in Children Without Increasing Ketosis** *DIABETES CARE*  
Buckingham, B. A., Raghinaru, D., Cameron, F., Bequette, B. W., Chase, H. P., Maahs, D. M., Slover, R., Wadwa, R. P., Wilson, D. M., Ly, T., Aye, T., Hramiak, I., Clarson, et al  
2015; 38 (7): 1197-1204
- **Factors Associated with Nocturnal Hypoglycemia in At-Risk Adolescents and Young Adults with Type 1 Diabetes** *DIABETES TECHNOLOGY & THERAPEUTICS*  
Wilson, D. M., Calhoun, P. M., Maahs, D. M., Chase, H. P., Messer, L., Buckingham, B. A., Aye, T., Clinton, P. K., Hramiak, I., Kollman, C., Beck, R. W.  
2015; 17 (6): 385-391
- **Longitudinal Assessment of Neuroanatomical and Cognitive Differences in Young Children With Type 1 Diabetes: Association With Hyperglycemia** *DIABETES*  
Mauras, N., Mazaika, P., Buckingham, B., Weinzimer, S., White, N. H., Tsalikian, E., Hershey, T., Cato, A., Cheng, P., Kollman, C., Beck, R. W., Ruedy, K., Aye, et al  
2015; 64 (5): 1770-1779

- **A Randomized Trial of a Home System to Reduce Nocturnal Hypoglycemia in Type 1 Diabetes** *DIABETES CARE*  
Maahs, D. M., Calhoun, P., Buckingham, B. A., Chase, H. P., Hramiak, I., Lum, J., Cameron, F., Bequette, B. W., Aye, T., Paul, T., Slover, R., Wadwa, R. P., Wilson, et al  
2014; 37 (7): 1885-1891
- **A randomized trial of a home system to reduce nocturnal hypoglycemia in type 1 diabetes.** *Diabetes care*  
Maahs, D. M., Calhoun, P., Buckingham, B. A., Chase, H. P., Hramiak, I., Lum, J., Cameron, F., Bequette, B. W., Aye, T., Paul, T., Slover, R., Wadwa, R. P., Wilson, et al  
2014; 37 (7): 1885-1891
- **Cognitive functioning in young children with type 1 diabetes.** *Journal of the International Neuropsychological Society*  
Cato, M. A., Mauras, N., Ambrosino, J., Bondurant, A., Conrad, A. L., Kollman, C., Cheng, P., Beck, R. W., Ruedy, K. J., Aye, T., Reiss, A. L., White, N. H., Hershey, et al  
2014; 20 (2): 238-247
- **Alterations in white matter structure in young children with type 1 diabetes.** *Diabetes care*  
Barnea-Goraly, N., Raman, M., Mazaika, P., Marzelli, M., Hershey, T., Weinzimer, S. A., Aye, T., Buckingham, B., Mauras, N., White, N. H., Fox, L. A., Tansey, M., Beck, et al  
2014; 37 (2): 332-340
- **High success rates of sedation-free brain MRI scanning in young children using simple subject preparation protocols with and without a commercial mock scanner—the Diabetes Research in Children Network (DirecNet) experience.** *Pediatric radiology*  
Barnea-Goraly, N., Weinzimer, S. A., Ruedy, K. J., Mauras, N., Beck, R. W., Marzelli, M. J., Mazaika, P. K., Aye, T., White, N. H., Tsalikian, E., Fox, L., Kollman, C., Cheng, et al  
2014; 44 (2): 181-186
- **Alterations in white matter structure in young children with type 1 diabetes mellitus** *DIABETES CARE*  
Barnea-Goraly, N., Raman, M., Mazaika, P., Marzelli, M., et al  
2014: 332–40
- **Real-time continuous glucose monitoring systems in the classroom/school environment.** *Diabetes technology & therapeutics*  
Benassi, K., Drobny, J., Aye, T.  
2013; 15 (5): 409-412
- **White Matter Structural Differences in Young Children With Type 1 Diabetes: A Diffusion Tensor Imaging Study** *DIABETES CARE*  
Aye, T., Barnea-Goraly, N., Ambler, C., Hoang, S., Schleifer, K., Park, Y., Drobny, J., Wilson, D. M., Reiss, A. L., Buckingham, B. A.  
2012; 35 (11): 2167-2173
- **Analysis of the NovoTwist pen needle in comparison with conventional screw-thread needles.** *Journal of diabetes science and technology*  
Aye, T.  
2011; 5 (6): 1488-1489
- **The Feasibility of Detecting Neuropsychologic and Neuroanatomic Effects of Type 1 Diabetes in Young Children** *DIABETES CARE*  
Aye, T., Reiss, A. L., Kesler, S., Hoang, S., Drobny, J., Park, Y., Schleifer, K., Baumgartner, H., Wilson, D. M., Buckingham, B. A.  
2011; 34 (7): 1458-1462
- **Toward Closing the Loop: An Update on Insulin Pumps and Continuous Glucose Monitoring Systems** *ENDOCRINOLOGY AND METABOLISM CLINICS OF NORTH AMERICA*  
Aye, T., Block, J., Buckingham, B.  
2010; 39 (3): 609-?
- **Metformin Extended Release Treatment of Adolescent Obesity A 48-Week Randomized, Double-Blind, Placebo-Controlled Trial With 48-Week Follow-up** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*  
Wilson, D. M., Abrams, S. H., Aye, T., Lee, P. D., Lenders, C., Lustig, R. H., Osganian, S. V., Feldman, H. A.  
2010; 164 (2): 116-123