

UNIVERSITY OF OKLAHOMA  
COLLEGE OF MEDICINE

CURRICULUM VITAE

**Jeanie B (Jacks) Tryggestad, MD**

Associate Professor, Department of Pediatrics  
Section of Diabetes/Endocrinology  
Paul and Ruth Jonas Endowed Chair in Pediatric Diabetes/Endocrinology  
Children's Hospital 4500  
1200 Children's Ave  
Oklahoma City, OK 73104  
Phone: (405) 271-8001 ext. 43080  
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**Appointment Type:** Consecutive  
**Pathway:** Clinician Scientist

**EDUCATION AND TRAINING**

**Postgraduate Education and Training**

2008 - 2011 Fellow, Pediatric Endocrinology, Section of Diabetes/Endocrinology, Department of Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2005 - 2008 Resident, Department of Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, OK

**Education**

2005 Doctor of Medicine, with Distinction  
University of Oklahoma College of Medicine, Oklahoma City, OK

2000 Bachelor of Science, Summa cum laude, Biology  
Oklahoma Christian University, Oklahoma City, OK

**PROFESSIONAL EXPERIENCE**

**Academic**

2019 - Present Associate Professor, Diabetes and Endocrinology, Pediatrics, Medicine, University of Oklahoma Health Sciences Center, Oklahoma City

2011 - 2019 Assistant Professor, Department of Pediatrics, Section of Diabetes/Endocrinology, University of Oklahoma Health Sciences Center, Oklahoma City, OK

**HONORS AND AWARDS**

**National/International**

Elected to the Society of Pediatric Research, Society of Pediatric Research, January 2019 - Present

Best Doctors in America, Best Doctors, Inc., 2015 - 2016

## **Local/Regional**

Dr. Geoffrey Altshuler Founder's Award, Children's Hospital Foundation, May 24, 2018

Silver Award, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, October 2012

## **Institutional**

Paul and Ruth Jonas Endowed Chair in Pediatric Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2016 - Present

OU Medicine Award for Outstanding Patient Service, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2017 - 2018

OU Medicine Award for Outstanding Patient Service, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2016 - 2017

OU Medicine Award for Outstanding Patient Service, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2015 - 2016

Distinguished Alumnus in Biological Sciences, College of Natural & Health Sciences, Oklahoma Christian University, November 4, 2016

Faculty Leadership Program Faculty Fellow & Class of 2015, College of Medicine, University of Oklahoma Health Sciences Center, 2015

Oral Presentation Award, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, June 2011

Pediatric Resident of the Month, Selected by Chief Residents for outstanding service, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, April 2007

## **BOARD AND PRACTICE CERTIFICATION**

2011 - Present Diplomate, Pediatric Endocrinology, The American Board of Pediatrics, Active

2008 - Present Diplomate, General Pediatrics, The American Board of Pediatrics, Active

## **LICENSURE**

2005 - Present Medical Doctor, Oklahoma State Board of Medical Licensure and Supervision, Active

## **SCHOLARSHIP**

### **Contracts, Grants, and Other Research**

\* indicates mentee

#### **Current**

##### **Cooperative Agreements**

**Tryggestad, J. B.** (Principal Investigator), 30% Effort, Jeter, K. M. (Co-Investigator),  
"Understanding and Targeting the Pathophysiology of Youth-onset Type 2 Diabetes – Clinical

Centers (U01)," U01, Sponsored by National Institutes of Health/ National Institute of Diabetes and Digestive and Kidney Diseases, Federal  
Grant/Contract Number: 1U01DK135007  
Current Funding (Total Cost per Year): \$500,000.00  
Total Direct Costs: \$2,500,000.00  
Additional Information: First year is 10% effort, then 30% every year after.  
February 22, 2023 - January 31, 2029

## Grants

**Tryggestad, J.** (Principal Investigator), 10% Effort, O'Neill, P. (Co-Investigator), Bard, D. E. (Co-Investigator), "Metabolic And Glycemic Indices in Children with youth-onset type 2 Diabetes Mellitus (MAGIC DM)," Team Science Grant, Sponsored by Harold Hamm Diabetes Center, Local  
Current Funding (Total Cost per Year): \$100,000.00  
Total Direct Costs: \$300,000.00  
July 1, 2023 - June 30, 2026

Pierce, S. L. (Principal Investigator), Tryggestad, J. (Co-Investigator), Edwards, R. K. (Co-Investigator), Fields, D. A. (Co-Investigator), Myers, D. A. (Co-Investigator), **Tryggestad, J.** (Co-Investigator), 5% Effort, "Pilot RCT Intervention Targeting Elevated Triglycerides with a Point-of-Care Meter and Omega-3 Fatty Acids to Normalize Triglycerides and Fetal Growth," Team Science Award, Sponsored by Harold Hamm Diabetes Center, The University of Oklahoma (Institutional)  
Total Direct Costs: \$100,000.00  
2021 - 2025

Vanwagoner, T. M. (Co-Principal Investigator), **Tryggestad, J.** (Co-Principal Investigator), 15% Effort, Bogie, A. L. (Co-Principal Investigator), "Oklahoma Pediatric Clinical Trials Network," Research Grant, Sponsored by National Institutes of Health, Federal  
Grant/Contract Number: 5UG1O0024950  
Current Funding (Total Cost per Year): \$1,989,655.00  
September 1, 2021 - August 31, 2025

Sparling, D. P. (Principal Investigator), **Tryggestad, J.** (Co-Investigator), 5% Effort, "Changes in CRISPLD2 Secretion During Progression of Type 2 Diabetes Mellitus," Seed Grant, Sponsored by Harold Hamm Diabetes Center, Local  
Current Funding (Total Cost per Year): \$63,000.00  
Total Direct Costs: \$63,000.00  
July 1, 2023 - June 30, 2024

Shah, K. B. (Principal Investigator)\*, Rudolph, M. C. (Co-Principal Investigator), Fields, D. A. (Co-Investigator), **Tryggestad, J.** (Co-Investigator), 5% Effort, "Uptake, Biological Function and Characterization of Human Breast Milk Exosomes," Team Science Grant, Sponsored by Harold Hamm Diabetes Center, Local  
Current Funding (Total Cost per Year): \$5,000.00  
Total Direct Costs: \$50,000.00  
July 1, 2022 - June 30, 2024

**Tryggestad, J.** (Principal Investigator), 10% Effort, "Impact of in utero diabetes exposure on miRNA: effects on cellular metabolism," R03, Sponsored by National Institutes of Health/ National Institute of Diabetes and Digestive and Kidney Diseases, Federal  
Grant/Contract Number: R03DK125626  
Current Funding (Total Cost per Year): \$75,000.00  
Total Direct Costs: \$150,000.00  
April 30, 2021 - May 1, 2024

**Tryggestad, J.** (Co-Principal Investigator), 5% Effort, Short, K. R. (Co-Principal Investigator), "miRNA Profile of Participants with T1D after Exercise/Meal," Research Grant, Sponsored by Trachtenberg Grant, Non-Profit  
Current Funding (Total Cost per Year): \$9,000.00  
Total Direct Costs: \$9,000.00  
May 2022 - May 2023

## Completed

### Grants

**Tryggestad, J.** (Co-Principal Investigator), 10% Effort, "Impact of in utero diabetes exposure on mesenchymal stem cell lineage determination," Centers of Biomedical Research Excellence (CoBRE) Pilot Project, Sponsored by Centers of Biomedical Research Excellence (CoBRE)/ National Institutes of Health (NIH), Federal  
Grant/Contract Number: 5P30GM122744  
Current Funding (Total Cost per Year): \$50,000.00  
Total Direct Costs: \$50,000.00  
February 12, 2021 - June 30, 2023

**Tryggestad, J.** (Co-Principal Investigator), 5% Effort, Chernausek, S. D. (Co-Principal Investigator), "TODAY2 Phase 2 (T2P2): Long-Term Post-Intervention Follow-up," Sponsored by National Institute of Diabetes and Digestive and Kidney Diseases, Federal  
Grant/Contract Number: 5 U01 DK061230-15 NIDDK/NIH  
Current Funding (Total Cost per Year): \$261,325.00  
May 1, 2018 - April 30, 2023

**Tryggestad, J.** (Principal Investigator), 10% Effort, Chernausek, S. D. (Co-Investigator), Jones, K. L. (Co-Investigator), "Circulating miRNAs as predictors of  $\beta$  cell failure and diabetes complications in youth with T2D," Extramural grant, Sponsored by National Institute of Diabetes and Digestive and Kidney Diseases, Federal  
Current Funding (Total Cost per Year): \$420,000.00  
Total Direct Costs: \$330,000.00  
March 1, 2021 - December 31, 2022

**Tryggestad, J.** (Principal Investigator), 75% Effort, "In utero exposure to diabetes and future cardiometabolic risk: the role of miRNA," Sponsored by National Institute of Diabetes and Digestive and Kidney Diseases, Federal  
Grant/Contract Number: 1K23 DK106533-03  
Current Funding (Total Cost per Year): \$143,091.00  
Additional Information: The major goal of the project is to determine the mechanism of action for miR-148a and 126 as well as their impact on distant tissues while continuing to acquire skills to establish as an independent researcher.  
September 12, 2016 - July 31, 2021

Sparling, D. P. (Site PI), **Tryggestad, J.** (Co-Investigator), "TrialNet," Sponsored by NIDDK, NIAID, NICHD, NCRR, JDRF, ADA, Federal  
Grant/Contract Number: TN-01, TN-07, TN-18  
Total Direct Costs: \$258,646.00  
Additional Information: TrialNet is an international network of researchers who are exploring ways to prevent, delay and reverse the progression of type 1 diabetes. Our Center is studying relatives of people with type 1 diabetes who are at greater risk of developing the disease.  
October 7, 2004 - June 30, 2019

George, M. M. (Site PI), **Tryggestad, J.** (Co-Investigator), "Pediatric Diabetes Consortium, Type 2 Diabetes Registry," Sponsored by Jaeb Center for Health Research, Non-Profit  
Current Funding (Total Cost per Year): \$8,764.00  
Additional Information: Registry to identify youth with type 2 diabetes and collect demographic and anthropometric information that can then be used assess the burden of type 2 diabetes in youth and potentially serve as a resource for future intervention studies.  
July 1, 2015 - December 31, 2018

**Tryggestad, J.** (Site PI), 2% Effort, "CEP249 A Performance Evaluation of The Enlite™ And Enlite 3 Glucose Sensor To Support A Full 144 Hours (6 Days) Of Use In Children," Sponsored by Medtronic Inc., Private  
Total Direct Costs: \$108,389.00  
Additional Information: Industry sponsored trial to evaluate 2 different continuous glucose sensors with regard to their precision and accuracy to measure glucose levels in the subcutaneous fluid as compared with serum glucose levels.  
May 6, 2015 - September 17, 2017

Short, K. R. (Principal Investigator), **Tryggestad, J.** (Co-Investigator), "The role of exercise and diet on vascular health in adolescents," Sponsored by Harold Hamm Diabetes Center, The University of Oklahoma (Institutional)  
Total Direct Costs: \$82,298.00  
Additional Information: The purpose of this project is to measure the acute impact of either exercise or a high fat meal on arterial compliance as a measure of vascular health in adolescents, and to determine how those effects are modified by obesity, diabetes and cardiorespiratory fitness.  
March 1, 2016 - February 28, 2017

Copeland, K. C. (Site PI), **Tryggestad, J.** (Co-Investigator), "Studies to Treat or Prevent Pediatric Type 2—TODAY (T2P1)," Sponsored by National Institutes of Health, Federal  
Grant/Contract Number: U01-DK061230-11 NIH DK02  
Total Direct Costs: \$1,515,655.00  
Additional Information: Purpose: The major goals of this project is to continue to follow subjects that have completed the treatment arm of the study to monitor for comorbidities and complications as the adolescents age.  
March 1, 2012 - July 31, 2015

**Tryggestad, J.** (Principal Investigator), 10% Effort, "Comparison of micro-RNA microarray results between umbilical cord endothelial cells and serum of children," Pilot Grant, Sponsored by Oklahoma Shared Clinical and Translational Resources, National Institutes of Health, Federal  
Total Direct Costs: \$50,000.00  
Additional Information: Awarded through Oklahoma Shared Clinical and Translational Resources (OSCTR). The major goal of this project is to identify novel miRNAs linking in utero glucose exposure to cardiometabolic outcomes in children and adolescents.  
July 1, 2014 - June 30, 2015

Copeland, K. C. (Co-Investigator), **Tryggestad, J.** (Site PI), "A Randomized Trial of Metformin as Adjunct Therapy for Overweight Adolescents with Type 1 Diabetes," Sponsored by JAEB Center for Health Research, Inc., Non-Profit  
Total Direct Costs: \$20,075.00  
Additional Information: Randomized double-blind study to determine the impact on glycemic control of metformin in obese children with T1DM.  
May 1, 2013 - April 30, 2015

**Tryggestad, J.** (Principal Investigator), "Comparison of circulating miRNA in normal weight, obese, and type 2 diabetic children," Sponsored by Vice President of Research, University of Oklahoma Health Sciences Center Translation Grant, The University of Oklahoma (Institutional)

Total Direct Costs: \$30,000.00

Additional Information: Purpose: The goal of the proposal is to identify serum miRNAs that are differentially expressed among normal weight, obese, and T2DM children. Once the miRNAs are identified, further analysis will determine if these miRNAs are associated with arterial compliance or other anthropometric or serum measures.

March 1, 2013 - February 28, 2014

**Tryggestad, J.** (Principal Investigator), "Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes," Sponsored by Lawson Wilkins Pediatric Endocrine Society, Foundation

Total Direct Costs: \$50,000.00

July 2010 - June 2011

**Tryggestad, J.** (Principal Investigator), "Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes," Sponsored by Marilyn Fishman Grant for Diabetes Research from Endocrine Fellow Foundation, Non-Profit

Total Direct Costs: \$15,000.00

November 2009 - November 2010

### **Publications - Peer-Reviewed/Refereed**

\* indicates Mentee

+ indicates Co-First Author

# indicates Contributing Author/Corresponding Author

#### **Scientific/Scholarly Journals**

1. Mottl, A. K., **Tryggestad, J.**, Isom, S., Gubitosi-Klug, R. A., Henkin, L., White, N. H., D'Agostino, Jr, R., Hughan, K. S., Dolan, L. M., Drews, K. L. (2024). Major adverse events in youth-onset type 1 and type 2 diabetes: The SEARCH and TODAY studies. *Diabetes research and clinical practice*, 210, 111606. PMID: 38493952. DOI: 10.1016/j.diabres.2024.111606
2. Waldrop, S. W., Niemiec, S., Wood, C., Gyllenhammer, L. E., Jansson, T., Friedman, J. E., **Tryggestad, J.**, Borengasser, S. J., Davidson, E. J., Yang, I. V., Kechris, K., Dabelea, D., Boyle, K. E. (2023). Cord blood DNA methylation of immune and lipid metabolism genes is associated with maternal triglycerides and child adiposity. *Obesity (Silver Spring, Md.)*. PMID: 37869908. DOI: 10.1002/oby.23915
3. **Tryggestad, J.**, Drews, K. L., Mele, L., Arslanian, S., Chernausek, S. D., Escaname, E. N., Geffner, M., Isganaitis, E., Sprague, J., Kelsey, M. M. (2023). Impact of youth onset type 2 diabetes during pregnancy on microvascular and cardiac outcomes. *Diabetes research and clinical practice*, 203, 110876. PMID: 37595843. DOI: 10.1016/j.diabres.2023.110876
4. Wu, J., Gulati, S., Teague, A. M., Kim, Y. M., **Tryggestad, J.**, Jiang, S. (2023). AMPK regulates DNA methylation of PGC-1 $\alpha$  and myogenic differentiation in human mesenchymal stem cells. *Stem cells and development*. PMID: 36594575. DOI: 10.1089/scd.2022.0226
5. Magge, S. N., Wolf, R. M., Pyle, L., Brown, E. A., Benavides, V. C., Bianco, M. E., Chao, L. C., Cymbaluk, A., Balikcioglu, P. G., Halpin, K., Hsia, D. S., Huerta-Saenz, L., Kim, J. J., Kumar, S., Levitt Katz, L. E., Marks, B. E., Neyman, A., O'Sullivan, K. L., Pillai, S. S., Shah, A. S., Shoemaker, A. H., Siddiqui JAW, Srinivasan, S., Thomas, I. H., **Tryggestad, J.**, Yousif, M. F., Kelsey, M. M. (2022). The Coronavirus Disease 2019 Pandemic is Associated with a Substantial Rise in Frequency and Severity of Presentation of Youth-Onset Type 2 Diabetes. *The Journal of pediatrics*, 251, 51-59.e2. PMID: 35985535. DOI: 10.1016/j.jpeds.2022.08.010
6. Shah, R. D., Chernausek, S. D., El Ghormli, L., Geffner, M. E., Keady, J., Kelsey, M. M., Farrell, R., Tesfaldet, B., **Tryggestad, J.**, Van Name, M., Isganaitis, E. (2022). Maternal Diabetes in

- Youth-Onset Type 2 Diabetes Is Associated with Progressive Dysglycemia and Risk of Complications. *The Journal of clinical endocrinology and metabolism*. PMID: 36446741. DOI: 10.1210/clinem/dgac663
7. Levitsky, L. L., Drews, K. L., Haymond, M., Glubitosi-Klug, R. A., Levitt Katz, L. E., Mititelu, M., Tamborlane, W., **Tryggestad, J.**, Weinstock, R. S. (2022). The obesity paradox: Retinopathy, obesity, and circulating risk markers in youth with type 2 diabetes in the TODAY Study. *Journal of diabetes and its complications*, 36(11), 108259. PMID: 36150365. DOI: 10.1016/j.jdiacomp.2022.108259
  8. Landreth, S., Teague, A. M., Jensen, M. E., Gulati, S., **Tryggestad, J.** (2022). Impact of maternal diabetes exposure on soluble adhesion molecules in the offspring. *Nutrition, metabolism, and cardiovascular diseases : NMCD*, 32(5), 1253-1258. PMID: 35256229. DOI: 10.1016/j.numecd.2022.01.034
  9. Shah, R. D., Braffett, B. H., **Tryggestad, J.**, Hughan, K. S., Dhaliwal, R., Nadeau, K. J., Levitt Katz, L. E., Gidding, S. S. (2022). Cardiovascular risk factor progression in adolescents and young adults with youth-onset type 2 diabetes. *Journal of diabetes and its complications*, 36(3), 108123. PMID: 35123868. DOI: 10.1016/j.jdiacomp.2021.108123
  10. Pincu, Y., **Tryggestad, J.**, Teague, A. M., Short, K. R. (2022). The effect of a high fat meal on heart rate variability and arterial stiffness in adolescents with or without type 1 diabetes. *Journal of diabetes and its complications*, 36(3), 108130. PMID: 35067450. DOI: 10.1016/j.jdiacomp.2022.108130
  11. Shah, A. S., Gidding, S. S., El Ghormli, L., **Tryggestad, J.**, Nadeau, K. J., Bacha, F., Levitt Katz, L. E., Willi, S. M., Lima, J., Urbina, E. M. (2022). Relationship between Arterial Stiffness and Subsequent Cardiac Structure and Function in Young Adults with Youth-Onset Type 2 Diabetes: Results from the TODAY Study. *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*. PMID: 35149207. DOI: 10.1016/j.echo.2022.02.001
  12. Shah, K. B., Fields, D. A., Pezant, N. P., Kharoud, H. K., Gulati, S., Jacobs, K., Gale, C. A., Kharbanda, E. O., Nagel, E. M., Demerath, E. W., **Tryggestad, J.** (2022). Association of Gestational Diabetes Mellitus With Altered Abundance of Exosomal MicroRNAs in Human Milk. *Clinical therapeutics*. PMID: 35090750. DOI: 10.1016/j.clinthera.2022.01.005
  13. **Tryggestad, J.** (2021). Pregnancy Outcomes in Young Women With Youth-Onset Type 2 Diabetes Followed in the TODAY Study. *Diabetes care*, 45(5), 1038-45. PMID: 34880068. DOI: 10.2337/dc21-1071
  14. Shah, A. S., El Ghormli, L., Gidding, S. S., Hughan, K. S., Levitt Katz, L. E., Koren, D., **Tryggestad, J.**, Bacha, F., Braffett, B. H., Arslanian, S., Urbina, E. M. (2021). Longitudinal changes in vascular stiffness and heart rate variability among young adults with youth-onset type 2 diabetes: results from the follow-up observational treatment options for type 2 diabetes in adolescents and youth (TODAY) study. *Acta diabetologica*. PMID: 34542729. DOI: 10.1007/s00592-021-01796-6
  15. Todd, J. N., Kleinberger, J. W., Zhang, H., Srinivasan, S., Tollefsen, S. E., Levitsky, L. L., Levitt Katz, L. E., **Tryggestad, J.**, Bacha, F., Imperatore, G., Lawrence, J. M., Pihoker, C., Divers, J., Flannick, J., Dabelea, D., Florez, J. C., Pollin, T. I. (2021). Monogenic Diabetes in Youth With Presumed Type 2 Diabetes: Results From the Progress in Diabetes Genetics in Youth (ProDiGY) Collaboration. *Diabetes care*. PMID: 34362814. DOI: 10.2337/dc21-0491
  16. Bjornstad, P., Drews, K. L., Caprio, S., Gubitosi-Klug, R., Nathan, D. M., Tesfaldet, B.,

- Tryggestad, J.**, White, N. H., Zeitler, P. (2021). Long-Term Complications in Youth-Onset Type 2 Diabetes. *The New England journal of medicine*, 385(5), 416-426. PMID: 34320286. DOI: 10.1056/NEJMoa2100165
17. **Tryggestad, J.** (2021). Postintervention Effects of Varying Treatment Arms on Glycemic Failure and  $\beta$ -Cell Function in the TODAY Trial. *Diabetes care*, 44(1), 75-80. PMID: 33290248. DOI: 10.2337/dc20-0622
18. **Tryggestad, J.**, Shah, R. D., Braffett, B. H., Bacha, F., Gidding, S. S., Gubitosi-Klug, R. A., Shah, A. S., Urbina, E. M., Levitt Katz, L. E. (2020). Circulating adhesion molecules and associations with HbA1c, hypertension, nephropathy, and retinopathy in the Treatment Options for type 2 Diabetes in Adolescent and Youth study. *Pediatric diabetes*, 21(6), 923-931. PMID: 32501612. DOI: 10.1111/pedi.13062
19. Rughani, A., Friedman, J. E., **Tryggestad, J.** (2020). Type 2 Diabetes in Youth: the Role of Early Life Exposures. *Current diabetes reports*, 20(9), 45. PMID: 32767148. DOI: 10.1007/s11892-020-01328-6
20. Jiang, S., Teague, A. M., **Tryggestad, J.**, Lyons, T. J., Chernausek, S. D. (2020). Fetal circulating human resistin increases in diabetes during pregnancy and impairs placental mitochondrial biogenesis. *Molecular medicine (Cambridge, Mass.)*, 26(1), 76. PMID: 32762639. DOI: 10.1186/s10020-020-00205-y
21. Shah, K. B., Chernausek, S. D., Teague, A. M., Bard, D. E., **Tryggestad, J.** (2020). Maternal diabetes alters microRNA expression in fetal exosomes, human umbilical vein endothelial cells and placenta. *Pediatric research*. PMID: 32663836. DOI: 10.1038/s41390-020-1060-x
22. **Tryggestad, J.**, Chernausek, S. D. (2020). BMI changes through childhood: the impact on puberty, linear growth and hormonal regulation. *Pediatric research*, 88(1), 11-13. PMID: 32299087. DOI: 10.1038/s41390-020-0903-9
23. **Tryggestad, J.** (2020). Longitudinal Changes in Cardiac Structure and Function From Adolescence to Young Adulthood in Participants With Type 2 Diabetes Mellitus: The TODAY Follow-Up Study. *Circulation. Heart failure*, 13(6), e006685. PMID: 32498621. DOI: 10.1161/CIRCHEARTFAILURE.119.006685
24. Jiang, S., Teague, A. M., **Tryggestad, J.**, Jensen, M. E., Chernausek, S. D. (2020). Role of metformin in epigenetic regulation of placental mitochondrial biogenesis in maternal diabetes. *Scientific reports*, 10(1), 8314. PMID: 32433500. DOI: 10.1038/s41598-020-65415-0
25. Ansell SKD, Jester, M., **Tryggestad, J.**, Short, K. R. (2020). A pilot study of the effects of a high-intensity aerobic exercise session on heart rate variability and arterial compliance in adolescents with or without type 1 diabetes. *Pediatric diabetes*. PMID: 31951305. DOI: 10.1111/pedi.12983
26. **Tryggestad, J.**, Teague, A. M., Sparling, D. P., Jiang, S., Chernausek, S. D. (2019). Macrophage-Derived microRNA-155 Increases in Obesity and Influences Adipocyte Metabolism by Targeting Peroxisome Proliferator-Activated Receptor Gamma. *Obesity (Silver Spring, Md.)*. PMID: 31531958. DOI: 10.1002/oby.22616
27. Shah, A. S., El Ghormli, L., Vajravelu, M. E., Bacha, F., Farrell, R. M., Gidding, S. S., Levitt Katz, L. E., **Tryggestad, J.**, White, N. H., Urbina, E. M. (2019). Heart Rate Variability and Cardiac Autonomic Dysfunction: Prevalence, Risk Factors and Relationship to Arterial Stiffness in the Treatment Options for Type 2 Diabetes in Adolescents and Youth (TODAY) Study. *Diabetes care*. PMID: 31501226. DOI: 10.2337/dc19-0993



28. Chadwick, J. Q., Copeland, K. C., Branam, D. E., Erb-Alvarez, J. A., Khan, S. I., Peercy, M. T., Rogers, M. E., Saunkeah, B. R., **Tryggestad, J.**, Wharton, D. F. (2019). Genomic Research and American Indian Tribal Communities in Oklahoma: Learning From Past Research Misconduct and Building Future Trusting Partnerships. *American journal of epidemiology*. PMID: 31081852. DOI: 10.1093/aje/kwz062
29. Arslanian, S., El Ghormli, L., Kim, J. Y., Bacha, F., Chan, C., Ismail, H. M., Levitt Katz, L. E., Levitsky, L., **Tryggestad, J.**, White, N. H. (2018). The Shape of the Glucose Response Curve During an Oral Glucose Tolerance Test: Forerunner of Heightened Glycemic Failure Rates and Accelerated Decline in  $\beta$ -Cell Function in TODAY. *Diabetes care*. PMID: 30455329. DOI: 10.2337/dc18-1122
30. Slover, R. H., **Tryggestad, J.**, DiMeglio, L. A., Fox, L. A., Bode, B. W., Bailey, T. S., Brazg, R., Christiansen, M. P., Sherr, J. L., Tsalikian, E., Kaiserman, K. B., Sullivan, A., Huang, S., Shin, J., Lee, S. W., Kaufman, F. R. (2018). Accuracy of a Fourth-Generation Continuous Glucose Monitoring System in Children and Adolescents with Type 1 Diabetes. *Diabetes technology & therapeutics*, 20(9), 576-584. PMID: 30063162. DOI: 10.1089/dia.2018.0109
31. Shah, A. S., El Ghormli, L., Gidding, S. S., Bacha, F., Nadeau, K. J., Levitt Katz, L. E., **Tryggestad, J.**, Leibel, N., Hale, D. E., Urbina, E. M. (2018). Prevalence of arterial stiffness in adolescents with type 2 diabetes in the TODAY cohort: Relationships to glycemic control and other risk factors. *Journal of diabetes and its complications*, 32(8), 740-745. PMID: 29936086. DOI: 10.1016/j.jdiacomp.2018.05.013
32. Venditti, E. M., Tan, K., Chang, N., Laffel, L., McGinley, G., Miranda, N., **Tryggestad, J.**, Walders-Abramson, N., Yasuda, P., Delahanty, L. (2018). Barriers and strategies for oral medication adherence among children and adolescents with Type 2 diabetes. *Diabetes research and clinical practice*, 139, 24-31. PMID: 29427697. DOI: 10.1016/j.diabres.2018.02.001
33. Gidding, S. S., Bacha, F., Bjornstad, P., Levitt Katz, L. E., Levitsky, L. L., Lynch, J., **Tryggestad, J.**, Weinstock, R. S., El Ghormli, L., Lima JAC (2018). Cardiac Biomarkers in Youth with Type 2 Diabetes Mellitus: Results from the TODAY Study. *The Journal of pediatrics*, 192, 86-92.e5. PMID: 29246363. DOI: 10.1016/j.jpeds.2017.09.012
34. Jiang, S., Teague, A. M., **Tryggestad, J.**, Aston, C. E., Lyons, T., Chernausek, S. D. (2017). Effects of maternal diabetes and fetal sex on human placenta mitochondrial biogenesis. *Placenta*, 57, 26-32. PMID: 28864016. DOI: 10.1016/j.placenta.2017.06.001
35. Jiang, S., Teague, A. M., **Tryggestad, J.**, Chernausek, S. D. (2017). Role of microRNA-130b in placental PGC-1 $\alpha$ /TFAM mitochondrial biogenesis pathway. *Biochemical and biophysical research communications*, 487(3), 607-612. PMID: 28433632. DOI: 10.1016/j.bbrc.2017.04.099
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#### Other

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2. Shah, K. B., Fields, D. A., Pezant, N. P., Kharoud, H. K., Gulati, S., Jacobs, K., Gale, C. A., Kharbanda, E. O., Nagel, E. M., Demerath, E. W., **Tryggestad, J.** (2022). *Corrigendum to: "Gestational Diabetes Mellitus Is Associated with Altered Abundance of Exosomal MicroRNAs in Human Milk" [Clin Therapeut 44(2) (2022) 172-185]*. Clinical therapeutics. PMID: 35595570. DOI: 10.1016/j.clinthera.2022.04.011
3. Rughani, A., Blick, K. E., Pang, H., Marin, M. T., Meyer, J. D., **Tryggestad, J.** (2020). *Pseudohypertriglyceridemia: A Novel Case with Important Clinical Implications*. (vol. 2020, pp. 4609317). Case reports in pediatrics. PMID: 32832184. DOI: 10.1155/2020/4609317

#### Innovative Teaching Materials - Peer-Reviewed/Refereed

1. Wisniewski, A. B., Krishnan, S., **Tryggestad, J.** (2009). *Gender Assignment in Newborns*, In European Society of Paediatric Endocrinology Learning Portal on Differences in Sex Development.

#### PRESENTATIONS

##### Invited

\* indicates mentee

##### **National/International**

1. **Tryggestad, J.**, "Role of Prenatal and Perinatal Exposures in the Development of T2D", National

- Pediatric Endocrine Society Annual Meeting 2023, Pediatric Endocrine Society, San Diego, CA, Lecture. May 8, 2023.
2. **Tryggestad, J.**, "Adverse Clinical Outcomes in Pregnancy for Women with Type 2 Diabetes - Maternal-Fetal Mortality and Morbidity", American Diabetes Association 82nd Annual Scientific Session, American Diabetes Association, New Orleans, LA, Lecture. June 3, 2022.
  3. **Tryggestad, J.**, "Turner Syndrome", PedsENDO365 Fellow Initiative, Pediatric Endocrine Society, Virtual Meeting, Panel. December 15, 2020.
  4. **Tryggestad, J.**, "Pregnancy Outcomes (within the Longitudinal Outcomes in Youth with Type 2 Diabetes - The TODAY2 Study)", American Diabetes Association 79th Scientific Session, American Diabetes Association, San Francisco, CA, Platform Presentation. June 8, 2019.
  5. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes", Diabetes Research Forum, Endocrine Fellows Foundation/American Diabetes Association Endocrine Fellows, San Diego, CA, Oral Presentation. June 2011.
  6. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children", Pediatric Endocrine Society Presidential Poster Session 2011, Pediatric Endocrine Society, Denver, CO, Poster. April 29, 2011.
  7. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes", Diabetes Research Forum, Endocrine Fellows Foundation/American Diabetes Association Endocrine Fellows, Orlando, FL, Oral Presentation. June 2010.

#### **Local/Regional**

1. **Tryggestad, J. B.**, "Updates on Type 2 Diabetes in Pregnancy – Clinical Outcomes and Pathophysiology", Harold Hamm Diabetes Center Research Symposium 2022, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Lecture. November 11, 2022.
2. **Tryggestad, J.**, "Diabetes and Pregnancy", Diabetes Care Summit 2022, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Lecture. August 26, 2022.
3. **Tryggestad, J.**, "Vascular Complications in Youth Onset Type 2 Diabetes: Outcomes of the TODAY Study", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas 2022 Meeting, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Austin, TX, Lecture. February 5, 2022.
4. **Tryggestad, J.**, "Youth Onset T2D: Lessons from TODAY", Choctaw Nation Health Center General Medical Staff Meeting, Choctaw Nation Health System, Virtual, Lecture. January 19, 2022.
5. **Tryggestad, J.**, "Diabetes Related Complications in Youth Onset Type 2 Diabetes: Outcomes of the TODAY study", Harold Hamm Diabetes Center 18th Annual Research Symposium, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Lecture. November 12, 2021.
6. **Tryggestad, J.**, "Youth Onset Type 2 Diabetes", Association of Diabetes Care and Education

Specialists (Oklahoma Coordinating Body) Annual Symposium, Oklahoma Association of Diabetes Care and Education Specialists, Virtual, Lecture. November 5, 2021.

7. **Tryggestad, J.**, "Diabetes-Related Complications and Comorbidities in Youth", Harold Hamm Diabetes Center Diabetes Care Summit, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Virtual, Lecture. September 10, 2021.

### **Accepted**

\* indicates mentee

### **National/International**

1. Bjornstad, P., Vigers, T. B., De Boer, I.\* , El ghormli, L., Heerspink, H. L., Laffel, L. M., Ryder, J. R., Shah, A. S., Lynch, J. L., Gubitosi-Klug, R., Drews, K., Tommerdahl, K. L., **Tryggestad, J.**, Isganaitis, E. M., Bacha, F., Pyle, L., Sharma, K., "Plasma Metabolites Predict Loss of Glycemic Control in Youth with Type 2 Diabetes (T2D)", American Diabetes Association 83rd Scientific Session, American Diabetes Association, San Diego, CA, Poster. June 26, 2023.
2. Lee, W.-H.\* , Redling, D.\* , Brooks, O.\* , Teague, A. M., Jiang, S., **Tryggestad, J.**, "Impact of Diabetes Exposure In Utero on Mesenchymal Stem Cell Phenotype and Metabolic Function", American Diabetes Association 83rd Scientific Session, American Diabetes Association, San Diego, CA, Poster. June 25, 2023.
3. Redling, D.\* , Bialek, S.\* , Chernausek, S. D., El ghormli, L., **Tryggestad, J.**, "Circulating MicroRNAs as Predictors of Microvascular Complications in Youth Onset Type 2 Diabetes—The TODAY Study", American Diabetes Association 83rd Scientific Session, American Diabetes Association, San Diego, CA, Poster. June 24, 2023.
4. Redling, D.\* , Bialek, S.\* , Chernausek, S. D., El ghormli, L., **Tryggestad, J.**, "Circulating MicroRNAs as Predictors of  $\beta$ -Cell Function in Youth Onset Type 2 Diabetes—The TODAY Study", American Diabetes Association 83rd Scientific Session, American Diabetes Association, San Diego, CA, Poster. June 24, 2023.
5. Shah, K. B.\* , Fields, D. A., Isganaitis, E., Redling, D., Kim, Y., Duncan, K., **Tryggestad, J.**, "Acute Bout of Exercise Increases Abundance of Exosomal microRNAs in Human Milk", National Pediatric Endocrine Society Annual Meeting 2023, Pediatric Endocrine Society, San Diego, CA, Poster. May 5, 2023.
6. **Tryggestad, J.**, "Complications in Youth Onset Type 2 Diabetes: Outcomes from TODAY", Association of Diabetes Care and Education Specialists 2022, Association of Diabetes Care and Education Specialists, Baltimore. MD, Oral Presentation. August 13, 2022.
7. **Tryggestad, J.**, Kelsey, M. M., Arslanian, S., Chernausek, S. D., Drews, K., Escaname, N., Geffner, M., Isganaitis, E., Mele, L., Sprague, J., "Impact of Pregnancy on Microvascular and Cardiac Outcomes in Youth-Onset Type 2 Diabetes", American Diabetes Association 82nd Scientific Session, American Diabetes Association, New Orleans, Poster. June 5, 2022.
8. Mottl, A., Isom, S., **Tryggestad, J.**, Gubitosi-Klug, R., Dolan, L., Dagostion, R., Drews, K., "Adverse Micro- and Macrovascular Outcomes in Youth-Onset Type 1 and Type 2 Diabetes: The SEARCH and TODAY Studies", American Diabetes Association 82nd Annual Scientific Session, American Diabetes Association, New Orleans, LA, Oral Presentation. June 4, 2022.
9. Sebastian, C.\* , **Tryggestad, J.**, "Interesting Case in Type 2 Diabetes", Pediatric Endocrine Society 2022, Pediatric Endocrine Society, Virtual, Oral Presentation. April 30, 2022.

10. Brooks, O.\*; Jiang, S., Teague, A. M., **Tryggestad, J.**, "MicroRNA-126 Increases Adipose Signaling and Decreases Proliferation in Mesenchymal Stem Cells", Pediatric Endocrine Society 2022, Pediatric Endocrine Society, Virtual, Oral Presentation. April 30, 2022.
11. Rughani, A.\*; **Tryggestad, J.**, "Impact of Maternal Diabetes on MicroRNA Expression in Fetal Tissue", American Diabetes Association 81st Annual Scientific Session, American Diabetes Association, Virtual, Oral Presentation. June 25, 2021.
12. Shah, A. S., El Ghormli, L., Gidding, S., Hughan, K., Katz, L., Koren, D., **Tryggestad, J.**, Bacha, F., Braffett, B., Arslanian, S., Urbina, E., "Longitudinal Changes in Vascular Stiffness and Heart Rate Variability (HRV) in Young Adults with Type 2 Diabetes (T2D): The TODAY Study", American Diabetes Association 81st Annual Scientific Session, American Diabetes Association, Virtual, Oral Presentation. June 25, 2021.
13. Shah, R., Isganaitis, E., **Tryggestad, J.**, VanName, M., Kelsey, M., Gefner, M., Chernausek, S. D., Keady, J., Farrell, R., El Gohormli, L., "Maternal Diabetes Is Associated with Adverse Diabetes Characteristics and Accelerated Onset of Complications in Youth with Type 2 Diabetes (T2D) in TODAY", American Diabetes Association 81st Scientific Session, American Diabetes Association, Virtual, Oral Presentation. June 25, 2021.
14. Landreth, S. B.\*; Teague, A. M., Jensen, M. E., Gulati, S., **Tryggestad, J.**, "Impact of Maternal Diabetes Exposure on Soluble Adhesion Molecules", American Diabetes Association 81st Annual Scientific Session, American Diabetes Association, Virtual, Poster. June 25, 2021.
15. Short, K. R., Palle, S. K., Amaya-Hellman, D. S., Jiang, S., **Tryggestad, J.**, Fematt-Garcia, E., "Serum MicroRNA-122 and -192 Are Increased in Adolescents with NAFLD: Potential Role as Biomarkers", American Diabetes Association 81st Annual Scientific Session, American Diabetes Association, Virtual, Poster. June 25, 2021.
16. Sebastian, C.\*; Sparling, D. P., **Tryggestad, J.**, "Predictors of Admission for Diabetic Ketoacidosis to the University of Oklahoma Children's Hospital: A Five-Year Retrospective Chart Review", Pediatric Academic Society 2021, Pediatric Academic Society, Virtual, Poster. May 4, 2021.
17. Shah, K. B., Fields, D. A., **Tryggestad, J.**, Teague, A. M., Duncan, K., Chernausek, S. D., "Breast milk exosomal microRNA composition is altered by maternal obesity and impacts infant weight gain and body composition", Pediatric Endocrine Society Annual Meeting 2020, Pediatric Endocrine Society, Virtual, Oral Presentation. June 30, 2020.
18. Amaya Hellman, D., Teague, A. M., Chadwick, J. Q., Coleman, C., Tullier, M. A., Wolbert, L., Thompson, D., **Tryggestad, J.**, Copeland, K. C., Short, K. R., "Effect of Obesity and Exercise Training on Serum micro-RNA-122, -130b and -155 in American Indian Adolescents", Pediatric Endocrine Society Meeting 2020, Pediatric Endocrine Society, Virtual, Poster. June 30, 2020.
19. **Tryggestad, J.**, Shah, K. B., Jensen, M. E., Teague, A. M., Chernausek, S. D., "Impact of diabetes exposure on endothelial markers and their association with circulating miRNA", Pediatric Endocrine Society Annual Meeting 2020, Pediatric Endocrine Society, Virtual, Poster. June 30, 2020.
20. **Tryggestad, J.**, Shah, K. B., Teague, A. M., Chernausek, S. D., "Impact of maternal diabetes exposure on miRNA abundance in HUVEC and circulation", Pediatric Endocrine Society Annual Meeting 2020, Pediatric Endocrine Society, Virtual, Poster. June 30, 2020.
21. **Tryggestad, J.**, Teague, A. M., Short, K. R., "Impact of High-Fat Meal on Circulating microRNA in Youth with T1DM", American Diabetes Association 81st Scientific Session, American Diabetes Association, Virtual, Oral Presentation. June 25, 2021.

Association, Virtual, Poster. June 13, 2020.

22. **Tryggestad, J.**, Shah, R. D., Braffett, B. H., Bacha, F., Gidding, S. S., Gubitosi-Klug, R., Shah, A. S., Urbina, E. M., Levitt-Katz, L. E., "Circulating Adhesion Molecules and Relationships to Micro and Macrovascular Outcomes: The TODAY Study", American Diabetes Association 79th Scientific Session, American Diabetes Association, San Francisco, CA, Poster. June 9, 2019.
23. Teague, A. M., **Tryggestad, J.**, "miRNA-126-3p Impacts Insulin Signaling in Smooth Muscle Cells", American Diabetes Association 79th Scientific Session, American Diabetes Association, San Francisco, CA, Poster. June 9, 2019.
24. Shah, A. S., El Ghormli, L., Vajravelu, M. E., Bacha, F., Farrell, R. M., Gidding, S. S., Levitt-Katz, L. E., **Tryggestad, J.**, White, N. H., Urbina, E. M., "Reduced Heart Rate Variability (HRV) in Young Adults with Youth-Onset Type 2 Diabetes (T2D) Is Related to Glycemic Control: The TODAY Study", American Diabetes Association 79th Scientific Session, American Diabetes Association, San Francisco, CA, Poster. June 8, 2019.
25. Butler, K.\* , Chernausek, S. D., **Tryggestad, J.**, "Testicular Function Testing in the Setting of a Multidisciplinary Disorders of Sex Development Clinic", Pediatric Academic Society Meeting 2019, Pediatric Academic Society, Baltimore, MA, Poster. March 9, 2019.
26. Todd, J., Kleinberger, J. W., Srinavasan, S., Tollefsen, S. E., Levitsky, L. L., Katz, L. E., **Tryggestad, J.**, Bacha, F., Imperatore, G., Lawrence, J. M., Pihoker, C., Divers, J., Flannick, J., Dabelea, D., Florez, J. C., Pollin, T. I., "Monogenic Diabetes in the Progress for Diabetes Genetics in Youth (ProDiGY) Collaboration", American Diabetes Association 78th Scientific Sessions, American Diabetes Association, Orlando, FL, Oral Presentation. June 25, 2018.
27. Jiang, S., Teague, A. M., **Tryggestad, J.**, Lyons, T., Chernausek, S. D., "Regulation and Role of Human Resistin in Diabetes During Pregnancy", American Diabetes Association 78th Scientific Sessions, American Diabetes Association, Orlando, FL, Moderated Poster Session. June 24, 2018.
28. **Tryggestad, J.**, Teague, A. M., Chernausek, S. D., "IRS1 is a Target of Micro-RNA-126", American Diabetes Association 78th Scientific Sessions, American Diabetes Association, Orlando, FL, Poster. June 24, 2018.
29. Rughani, A.\* , Teague, A. M., Sparling, D. P., **Tryggestad, J.**, "Effect of Inflammatory Stimulus on MiRNA Expression in Adipocytes and Macrophages", Pediatric Academic Society Meeting 2018, Pediatric Academic Society, Toronto, Poster. May 6, 2018.
30. Rughani, A.\* , Teague, A. M., Sparling, D. P., **Tryggestad, J.**, "Effect of Inflammatory Stimulus on MiRNA Expression in Adipocytes and Macrophages", Pediatric Academic Society Meeting 2018, Pediatric Endocrine Society, Toronto, Moderated Poster Session. May 5, 2018.
31. Shah, K. B.\* , Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", Noncoding RNAs: Form, Function, Physiology, Keystone Symposia, Keystone, CO, Poster. February 28, 2018.
32. **Tryggestad, J.**, Teague, A. M., Sparling, D. P., Chernausek, S. D., "Effect of TNF-alpha Treatment on miRNA Expression in Differentiated 3T3-L1 Cells", International Meeting of Pediatric Endocrinology 2017, Pediatric Endocrine Society, Washington DC, Poster. September 16, 2017.
33. Shah, K. B.\* , Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", International Meeting of Pediatric Endocrinology 2017, Pediatric Endocrine Society, Washington DC, Poster. September 15, 2017.

34. Bacha, F., Bjornstad, P., Levitz-Katz, L. E., Levitsky, L., Lynch, J. L., **Tryggestad, J.**, Weinstock, R. S., El Ghormli, L., Lima, J. C., Gidding, S. S., "Cardiac Biomarkers in Adolescents with Type 2 Diabetes: The TODAY Study Trial", American Diabetes Association 77th Scientific Sessions, American Diabetes Association, San Diego, CA, Poster. June 12, 2017.
35. **Tryggestad, J.**, Teague, A. M., Chernausek, S. D., "Effect of Adiposity of miRNA Expression in Subcutaneous Fat Is Cell-Type Specific", American Diabetes Association 77th Scientific Sessions, American Diabetes Association, San Diego, CA, Poster. June 12, 2017.
36. Shah, K. B.\*, Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", American Diabetes Association 77th Scientific Sessions, American Diabetes Association, San Diego, CA, Poster. June 11, 2017.
37. Meyer, J. D., **Tryggestad, J.**, Jiang, S., Teague, A. M., Lyons, T. J., Chernausek, S. D., "Effect of Maternal Diabetes Mellitus on Placental VEGF 165b, a Novel Isoform of Vascular Endothelial Growth", American Diabetes Association 77th Scientific Sessions, American Diabetes Association, San Diego, CA, Poster. June 11, 2017.
38. Arslanian, S. A., Kim, J. Y., El Ghormli, L., Chan, C. L., Bacha, F., Ismail, H., **Tryggestad, J.**, Levitz-Katz, L. E., Levitsky, L., White, N. H., "The Glucose Response Curve (GRC) during an Oral Glucose Tolerance Test (OGTT) Heralds Accelerated Decline in Beta-Cell Function (BCF) and Heightened Glycemic Failure Rates in TODAY", American Diabetes Association 77th Scientific Sessions, American Diabetes Association, San Diego, CA, Poster. June 10, 2017.
39. Shah, A. S., El Ghormli, L., Bacha, F., Gidding, S. S., Hale, D., Leibel, N., Katz, L. E., Nadeau, K. J., **Tryggestad, J.**, Urbina, E., "Arterial Stiffness: Relationship to Diabetes Treatment and Glycemic Control in Adolescents with Type 2 Diabetes (T2D) in the TODAY Clinical Trial", American Diabetes Association 76th Scientific Session, American Diabetes Association, New Orleans, LA, Poster. June 12, 2016.
40. Jiang, S., Teague, A. M., **Tryggestad, J.**, Lyons, T. J., Chernausek, S. D., "Effects of Maternal Diabetes on PGC-1 $\alpha$  Expression in the Placenta: Role of microRNA-130b", American Diabetes Association 76th Scientific Session, American Diabetes Association, New Orleans, LA, Poster. June 11, 2016.
41. **Tryggestad, J.**, Vishwanath, A., Teague, A. M., Thompson, D. M., Takahashi, T., Ma, J.-X., Chernausek, S. D., "Differential Expression of Micro-RNAs in Human Umbilical Vein Endothelial Cells from Infants of Diabetic Mothers", American Diabetes Association 75th Scientific Session, American Diabetes Association, Boston, MA, Poster. June 7, 2015.
42. **Tryggestad, J.**, Teague, A. M., Thompson, D. M., Takahashi, T., Ma, J.-X., Chernausek, S. D., "Differential Expression of MicroRNAs among Normal Weight, Obese and Type 2 Diabetic Children", Pediatric Academic Society Meeting 2015, Pediatric Academic Society, San Diego, CA, Poster. April 27, 2015.
43. Marin, M. T., **Tryggestad, J.**, Anderson, M., Teague, A., Short, K. R., "Oxidized high-density lipoprotein in children", Presidential Poster Session Pediatric Endocrine Society Meeting 2014, Pediatric Endocrine Society, Vancouver, BC, Poster. May 2014.
44. Marin, M. T., **Tryggestad, J.**, Anderson, M., Teague, A., Short, K. R., "Oxidized high-density lipoprotein in obese adolescents", Annual Meeting, National Lipid Association, Oral Presentation. May 2013.
45. Marin, M. T., **Tryggestad, J.**, Anderson, M., Teague, A., Short, K. R., "Oxidized high-density



lipoprotein in obese adolescents", National Lipid Association Scientific Session 2013, National Lipid Association, Las Vegas, NV, Poster. May 30, 2013.

46. **Tryggestad, J.**, Thompson, D., Wang, J. J., Zhang, S. X., Short, K. R., "Comparison of Pigment Epithelium-Derived Factor levels in Children with Type 2 Diabetes Mellitus to Normal Weight and Obese Children", Pediatric Academic Society Meeting 2013, Pediatric Academic Society, Washington, DC, Oral Presentation. May 6, 2013.
47. **Tryggestad, J.**, Thompson, D. M., Copeland, K. C., Short, K. R., "Comparison of Arterial Compliance among Normal Weight, Obese, and T2DM Children", Pediatric Academic Society Meeting 2013, Pediatric Academic Society, Washington, DC, Poster. May 6, 2013.
48. **Tryggestad, J.**, Thompson, D., Wang, J. J., Zhang, S. X., Short, K. R., "Comparison of Pigment Epithelium-Derived Factor (PEDR) in Normal Weight and Obese, Boys and Girls", Pediatric Academic Society Meeting 2012, Pediatric Academic Society, Boston, MA, Poster. April 28, 2012.
49. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of arterial compliance and endothelial function between normal weight and obese, male and female children", Organization for the Study of Sex Differences Annual Meeting 2011, Organization for the Study of Sex Differences, Oklahoma City, OK, Poster. June 3, 2011.
50. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children", Pediatric Academic Society Meeting 2011, Pediatric Academic Society, Denver, CO, Platform Presentation. May 2, 2011.

#### Local/Regional

1. Lee, W.-H.\*, Redling, D.\*, Brooks, O.\*, Teague, A. M., Jiang, S., **Tryggestad, J.**, "Impact of Diabetes Exposure In Utero on Mesenchymal Stem Cell Phenotype and Metabolic Function", Pediatric Research Day 2024, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. February 2, 2024.
2. Kim, Y. \*, Lee, W. H., Teague, A. M., **Tryggestad, J.**, "Impact of in utero diabetes exposure on miRNAs", Pediatric Research Day 2024, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. February 2, 2024.
3. Meraou, H. \*, Preske, J., Aston, C. E., Jeter, K. M., **Tryggestad, J.**, "Prevalence of food insecurity and adverse childhood events in adolescents with youth-onset type 2 diabetes", Pediatric Research Day 2024, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. February 2, 2024.
4. Lee, W.-H.\*, Redling, D.\*, Brooks, O.\*, Teague, A. M., Jiang, S., **Tryggestad, J.**, "Impact of Diabetes Exposure In Utero on Mesenchymal Stem Cell Phenotype and Metabolic Function", Harold Hamm Diabetes Center Research Symposium 2023, Harold Hamm Diabetes Center, Oklahoma City, OK, Oral Presentation. November 10, 2023.
5. Kim, Y. \*, Lee, W. H., Teague, A. M., **Tryggestad, J.**, "Impact of in utero diabetes exposure on miRNAs", Harold Hamm Diabetes Center Research Symposium 2023, Harold Hamm Diabetes Center, Oklahoma City, OK, Oral Presentation. November 10, 2023.
6. Redling, D. \*, Bialek, S. \*, Gipson, J., Jones, K., **Tryggestad, J.**, "Circulating miRNAs in Youth Onset Type 2 Diabetes: Predictors of Glycemic Failure and Complications", Pediatric Research Day 2023, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. January 20, 2023.

7. Redling, D.\* , Bialek, S.\* , Gipson, J., Jones, K., **Tryggestad, J.**, "Circulating miRNAs in Youth Onset Type 2 Diabetes: Predictors of Glycemic Failure and Complications", Harold Hamm Diabetes Center Research Symposium 2022, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 11, 2022.
8. Brooks, O.\* , Jiang, S., Teague, A. M., **Tryggestad, J.**, "MicroRNA-126 Increases Adipose Signaling and Decreases Proliferation in Mesenchymal Stem Cells", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas Meeting 2022, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Austin, TX, Oral Presentation. February 5, 2022.
9. Sebastian, C.\* , **Tryggestad, J.**, "A Novel Single Allele Mutation in the Steroidogenic Acute Regulatory Protein Gene Resulting in Congenital Adrenal Insufficiency", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas Meeting 2022, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Austin, TX, Poster. February 5, 2022.
10. Tryggestad, J.\* , Fields, D. A., Pezant, N., Gulati, S., Demerath, E., **Tryggestad, J.**, "Gestational Diabetes Alters Human Milk Exosomal MicroRNA Composition", Harold Hamm Diabetes Center 18th Annual Research Symposium, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 12, 2021.
11. Rughani, A.\* , **Tryggestad, J.**, "Impact of Maternal Diabetes on MicroRNA-146b Expression in Fetal Tissue", Harold Hamm Diabetes Center 18th Annual Research Symposium, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 12, 2021.
12. Brooks, O.\* , Fematt-Garcia, E., Teague, A. M., **Tryggestad, J.**, "MicroRNA-126 Impacts Insulin Signaling and Proliferation in Vascular Smooth Muscle Cells", Harold Hamm Diabetes Center 18th Annual Research Symposium, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 12, 2021.
13. Brooks, O.\* , Jiang, S., Teague, A. M., **Tryggestad, J.**, "MicroRNA-126 Increases Adipose Signaling and Decreases Proliferation in Mesenchymal Stem Cells", Harold Hamm Diabetes Center 18th Annual Research Symposium, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 12, 2021.
14. Rughani, A. A.\* , Teague, A. M., Shah, K. B., **Tryggestad, J.**, "Impact of Maternal Diabetes on MicroRNA Expression in Fetal Tissue", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas 2021 Meeting, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Virtual, Poster. March 6, 2021.
15. Sebastian, C.\* , Sparling, D. P., **Tryggestad, J.**, "Predictors of Admission for Diabetic Ketoacidosis to the University of Oklahoma Children's Hospital: A Five-Year Retrospective Chart Review", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas 2021 Meeting, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Virtual, Poster. March 6, 2021.
16. Rughani, A. A.\* , **Tryggestad, J.**, "Impact of Maternal Diabetes on MicroRNA Expression in Fetal Tissue", Pediatric Research Day 2021, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 5, 2021.
17. Sebastian, C.\* , Sparling, D. P., **Tryggestad, J.**, "Predictors of Admission for Diabetic Ketoacidosis

to the University of Oklahoma Children's Hospital: A Five-Year Retrospective Chart Review", Pediatric Research Day 2021, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 5, 2021.

18. Rughani, A.\* , Teague, A. M., Shah, K. B., **Tryggestad, J.**, "Impact of Maternal Diabetes Exposure on microRNA Abundance in HUVEC and Circulation", Harold Hamm Diabetes Center Research Symposium 2020, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 13, 2020.
19. Palle, S. K., Hellman, D. A., Jiang, S., **Tryggestad, J.**, Fematt-Garcia, E., Short, K. R., "Serum microRNA-122 and -192 are Increased in Adolescents with NAFLD: Potential Role as Biomarkers", Harold Hamm Diabetes Center Research Symposium 2020, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 13, 2020.
20. Teague, A. M., Jensen, M. E., **Tryggestad, J.**, "miRNA-126-3p Impacts Insulin Signaling in Smooth Muscle Cells", Pediatric Research Day 2020, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 6, 2020.
21. Teague, A. M., Jensen, M. E., **Tryggestad, J.**, "miRNA-126-3p Impacts Insulin Signaling in Smooth Muscle Cells", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas 2020 Meeting, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Little Rock, AR, Oral Presentation. February 8, 2020.
22. Rughani, A.\* , Blick, K. E., Marin, M. T., Meyer, J. D., **Tryggestad, J.\***, "Pseudohypertriglyceridemia: A Novel Case with Important Clinical Implications", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas 2020 Meeting, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Little Rock, AR, Oral Presentation. February 8, 2020.
23. Amaya-Hellman, D. S., Teague, A. M., Chadwick, J. Q., Coleman, C., Tullier, M. A., Wolbert, L., Thompson, D., **Tryggestad, J. B.\***, Copeland, K. C., Short, K. R., "Effect of Obesity and Exercise Training on Serum micro-RNA-122, -130b and -155 in American Indian Adolescents", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas 2020 Meeting, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Little Rock, AR, Poster. February 8, 2020.
24. Teague, A. M., Jensen, M. E., **Tryggestad, J.**, "miRNA-126-3p Impacts Insulin Signaling in Smooth Muscle Cells", Harold Hamm Diabetes Research Symposium 2019, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 15, 2019.
25. **Tryggestad, J.**, Teague, A. M., Sparling, D. P., Chernausek, S. D., "Effect of Adiposity on MicroRNA-155 Expression in Subcutaneous Fat Is Cell-Type Specific", IDeA Networks of Biomedical Research Excellence (INBRE)/Centers of Biomedical Research Excellence (COBRE) Conference, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. June 13, 2019.
26. Jiang, S., Teague, A. M., **Tryggestad, J.**, Chernausek, S. D., "Effects of Metformin on Epigenetic Regulation of Placental Mitochondrial Biogenesis in Maternal Diabetes", IDeA Networks of Biomedical Research Excellence (INBRE)/Centers of Biomedical Research Excellence (COBRE) Conference, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. June 13, 2019.

27. **Tryggestad, J.**, Teague, A. M., Sparling, D. P., Chernausek, S. D., "Effect of Adiposity on MicroRNA-155 Expression in Subcutaneous Fat Is Cell-Type Specific", Pediatric Research Day 2019, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 8, 2019.
28. Butler, K.\* , Chernausek, S. D., **Tryggestad, J.**, "Testicular Function Testing in the Setting of a Multidisciplinary Disorders of Sex Development Clinic", Pediatric Research Day 2019, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 8, 2019.
29. Butler, K.\* , Chernausek, S. D., **Tryggestad, J.**, "Testicular Function Testing in the Setting of a Multidisciplinary Disorders of Sex Development Clinic", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas Meeting 2019, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Dallas, TX, Oral Presentation. February 2, 2019.
30. **Tryggestad, J.**, Teague, A. M., Sparling, D. P., Chernausek, S. D., "Effect of Adiposity on MicroRNA-155 Expression in Subcutaneous Fat Is Cell-Type Specific", Harold Hamm Diabetes Research Symposium 2018, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 16, 2018.
31. Teague, E.\* , Aston, C. E., **Tryggestad, J.**, Youngs, E. L., "Variant Karyotypes of Turner Syndrome: A Genotype-Phenotype Correlation", Graduate Research Education and Technology (GREAT) Symposium, Graduate College, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. April 11, 2018.
32. Shah, K. B.\* , Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. March 9, 2018.
33. Yousif, M.\* , **Tryggestad, J.**, "A Cold Nodule in Setting of Graves' Disease", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 9, 2018.
34. Jester, M. L., Hodges, S. K., **Tryggestad, J.**, Short, K. R., "Autonomic Nervous System Influence on Heart Rate Variability During High-Intensity Aerobic Exercise in Adolescents with and Without Type 1 Diabetes Mellitus", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 9, 2018.
35. Hodges, S. K., Short, K. R., **Tryggestad, J.**, "Effect of High Intensity Exercise on Vascular Control in Adolescents with and Without Type 1 Diabetes Mellitus", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 9, 2018.
36. Rughani, A.\* , Teague, A. M., Sparling, D. P., **Tryggestad, J.**, "Effect of Inflammatory Stimulus on MiRNA Expression in Adipocytes and Macrophages", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 9, 2018.
37. **Tryggestad, J.**, Teague, A. M., Chernausek, S. D., "IRS1 is a Target of Micro-RNA-126", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 9, 2018.

38. Teague, E. \*, Aston, C. E., **Tryggestad, J.**, Youngs, E. L., "Variant Karyotypes of Turner Syndrome: A Genotype-Phenotype Correlation", Pediatric Research Day 2018, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 9, 2018.
39. Shah, K. B. \*, Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, Arkansas Meeting 2018, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, Arkansas, New Orleans, LA, Oral Presentation. February 17, 2018.
40. Yousif, M. \*, **Tryggestad, J.**, "A Cold Nodule in Setting of Graves' Disease", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, Arkansas Meeting 2018, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, Arkansas, New Orleans, LA, Poster. February 17, 2018.
41. Shah, K. B. \*, Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", Harold Hamm Diabetes Research Symposium 2017, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 10, 2017.
42. **Tryggestad, J.**, Teague, A. M., Sparling, D. P., Chernausek, S. D., "Effect of TNF-alpha Treatment on miRNA Expression in Differentiated 3T3-L1 Cells", Harold Hamm Diabetes Research Symposium 2017, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 10, 2017.
43. Hodges, S. K., **Tryggestad, J.**, Short, K. R., "Effects of High Intensity Exercise on Vascular Control in Adolescents", Harold Hamm Diabetes Research Symposium 2017, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 10, 2017.
44. Jiang, S., Teague, A. M., **Tryggestad, J.**, Leyva, M., Chernausek, S. D., "Regulation and Role of Human Resistin in Diabetes During Pregnancy", Harold Hamm Diabetes Research Symposium 2017, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 10, 2017.
45. **Tryggestad, J.**, Teague, A. M., Chernausek, S. D., "Effect of Adiposity of miRNA Expression in Subcutaneous Fat Is Cell-Type Specific", Pediatric Research Day 2017, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 12, 2017.
46. Shah, K. B. \*, Teague, A. M., Chernausek, S. D., **Tryggestad, J.**, "Effect of Maternal Diabetes Mellitus on Fetal Serum Exosomal microRNA Expression", Pediatric Research Day 2017, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 12, 2017.
47. Meyer, J. D., **Tryggestad, J.**, Jiang, S., Teague, A. M., Lyons, T. J., Chernausek, S. D., "Effect of Maternal Diabetes Mellitus on Placental VEGF 165b", Pediatric Research Day 2017, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 12, 2017.
48. **Tryggestad, J.**, Teague, A. M., Chernausek, S. D., "miRNA Expression in Adipocyte and Stromal vascular Fraction Among Normal Weight and Obese Young Adults", Harold Hamm Diabetes Center Research Symposium 2016, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. October 28, 2016.

49. Shah, K. \*, George, M. M., **Tryggestad, J.**, "Methimazole induced agranulocytosis in a patient with Grave's disease managed by total thyroidectomy", Southern Society of Pediatric Research Meeting 2016, Southern Society of Pediatric Research, New Orleans, LA, Poster. February 19, 2016.
50. **Tryggestad, J.**, Vishwanath, A., Teague, A. M., Thompson, D. M., Takahashi, T., Ma, J.-X., Chernausek, S. D., "Differential Expression of Micro-RNAs in Human Umbilical Vein Endothelial Cells from Infants of Diabetic Mothers", Harold Hamm Diabetes Center Research Symposium 2015, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. October 16, 2015.
51. **Tryggestad, J.**, Teague, A. M., Thompson, D. M., Takahashi, T., Ma, J.-X., Chernausek, S. D., "Differential Expression of MicroRNAs among Normal Weight, Obese and Type 2 Diabetic Children", Pediatric Research Day 2015, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 8, 2015.
52. Etienne, J. \*, **Tryggestad, J.**, "Suppurative Thyroiditis Presenting as Thyroid Storm", Pediatric Research Day 2015, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 8, 2015.
53. Etienne, J. \*, **Tryggestad, J.**, "Suppurative Thyroiditis Presenting as Thyroid Storm", Southern Society of Pediatric Research Meeting 2015, Southern Society of Pediatric Research, New Orleans, LA, Poster. February 26, 2015.
54. **Tryggestad, J.**, Teague, A. M., Thompson, D. M., Takahashi, T., Ma, J.-X., Chernausek, S. D., "Differential Expression of MicroRNAs among Normal Weight, Obese and Type 2 Diabetic Children", Harold Hamm Diabetes Center Research Symposium 2014, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. October 14, 2014.
55. Marin, M. T., **Tryggestad, J.**, Anderson, M., Teague, A., Short, K. R., "Oxidized high-density lipoprotein in children", Pediatric Research Day 2014, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 16, 2014.
56. **Tryggestad, J.**, Belbeissi, T., Thompson, D. M., Short, K. S., "Soluble Endothelial Adhesion Markers Are Lower in Children with Obesity and Type 2 Diabetes Than Their Normal Weight Peers", Pediatric Research Day 2014, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 16, 2014.
57. **Tryggestad, J.**, Belbeissi, T., Thompson, D. M., Short, K. R., "Soluble Endothelial Adhesion Markers Are Lower in Children with Obesity and Type 2 Diabetes Than Their Normal Weight Peers", Harold Hamm Diabetes Center Research Symposium 2013, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. October 25, 2013.
58. Marin, M. T., **Tryggestad, J.**, Anderson, M., Teague, A., Short, K. R., "Oxidized high-density lipoprotein in children", Harold Hamm Diabetes Center Research Symposium 2013, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. October 25, 2013.
59. Marin, M. T., **Tryggestad, J.**, Anderson, M., Teague, A., Short, K. R., "Oxidized high-density lipoprotein in obese adolescents", Pediatric Research Day 2013, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral

Presentation. April 26, 2013.

60. **Tryggestad, J.**, Thompson, D., Wang, J. J., Zhang, S. X., Short, K. R., "Comparison of Pigment Epithelium-Derived Factor levels in Children with Type 2 Diabetes Mellitus to Normal Weight and Obese Children", Pediatric Research Day 2013, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. April 26, 2013.
61. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Arterial Compliance among Normal Weight, Obese, and T2DM Children", Harold Hamm Diabetes Center Research Symposium 2012, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. October 19, 2012.
62. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Arterial Compliance among Normal Weight, Obese, and T2DM Children", Pediatric Research Day 2012, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. June 15, 2012.
63. **Tryggestad, J.**, Thompson, D., Wang, J. J., Zhang, S. X., Short, K. R., "Comparison of Pigment Epithelium-Derived Factor (PEDR) in Normal Weight and Obese, Boys and Girls", Harold Hamm Diabetes Center Research Symposium 2011, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. November 2011.
64. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of arterial compliance and endothelial function between normal weight and obese, male and female children", Pediatric Research Day 2011, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Platform Presentation. May 26, 2011.
65. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children", Pediatric Research Day 2011, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 26, 2011.
66. **Tryggestad, J.**, Mallappa, A., Vishwanath, A., Marin, M. T., Chernausek, S. D., "Type 1 Diabetes Mellitus (T1DM) Control and Screening in the Pediatric Fellow Continuity Clinic", Pediatric Research Day 2011, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. May 26, 2011.
67. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children", Graduate Research Education And Technology Symposium, Graduate College, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. March 29, 2011.
68. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas Meeting 2011, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, New Orleans, LA, Oral Presentation. March 18, 2011.
69. **Tryggestad, J.**, Thompson, D., Copeland, K. C., Short, K. R., "Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children", Harold Hamm Diabetes Center Research Summit 2010, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. November 2010.
70. **Tryggestad, J.**, Li, S., Chernausek, S. D., "Hypogonadotropic Hypogonadism: Molecular Basis and Link with Arhinia", Pediatric Endocrine Society of Texas, Oklahoma, Louisiana and Arkansas Meeting 2010, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana and Arkansas,

Houston, TX, Oral Presentation. January 2010.

## TEACHING AND INSTRUCTION

### Teaching and Course Instruction – OUHSC/SCM

Year(s) of Instruction	Course ID	Course/Lecture Title	Role	Avg. Contact Hrs/Year	Primary Learner Audience
Spring 2022 - Present	PHYO 6401	Diabetes and Diabetic Complications: Introduction to diabetes and diabetic complications	Lecturer	2	Graduate
Fall 2016 - Present	BSE 5363	Epidemiology and Prevention of Chronic Diseases: Lecture on the Type 2 Diabetes in Youth - 2 hour lecture given each year	Instructor	2	Public Health
Fall 2013 - Present	GENC 5401	Genetic Basis of Adult Onset and Common Complex Disorders: T1DM pathophysiology and management	Lecturer	0.5	Genetic Counseling Students
Spring 2012 - Present	INDT 8148	Metabolism and Nutrition: Clinical Correlation: Type I Diabetes	Instructor	3	MSI

### Graduate Medical Education (GME) Instruction Delivered

Date	Course Name or Session Topic	Role	Number of Instruction Hours	Primary Learner Audience	Sponsoring Department or Organization
November 14, 2022	Lecture: Pediatric Endocrinology	Lecturer	1 hr(s) once	Residents	Pediatrics
April 14, 2020	Lecture: Pediatric Endocrine Themes	Lecturer	1 hr(s) once	Fellows	Pediatrics
August 16, 2019	Lecture: Pediatric Endocrine Themes	Lecturer	1 hr(s) once	Fellows	Pediatrics
May 3, 2019	Lecture: Pediatric Endocrine Themes	Lecturer	1 hr(s) once	Fellows	Pediatrics
March 15, 2019	Lecture: Pediatric Endocrine Themes	Lecturer	1 hr(s) once	Fellows	Pediatrics
February 2, 2018	Lecture: Pediatric Endocrine Themes	Lecturer	1 hr(s) Once	Fellows	Department of Pediatrics
November 2012 - May 2016	Lecture: Turner Syndrome for Reproductive Endocrine lecture series	Lecturer	1 hr(s) yearly - 4 total lectures	Residents	Department of Obstetrics and Gynecology
September 2012 - May 2016	Lecture: Thyroid Disease for Reproductive Endocrine lecture series	Lecturer	1 hr(s) yearly - 4 total lectures	Residents	Department of Obstetrics and Gynecology
February 2012 - April 2016	Lecture: Energy Homeostasis. A Tale of Four Hormones: Leptin, Adiponectin, Ghrelin, GLP-1, Endocrine Themes	Lecturer	1 hr(s) 3 total lectures	Fellows	Department of Pediatrics
April 2013 - April 2015	Lecture: The Pituitary for Pediatric Endocrine Core Lectures	Lecturer	1 hr(s) 2 lectures	Residents	Department of Pediatrics
February 2013 - December 2014	Lecture: Turner Syndrome for Endocrine Themes	Lecturer	1 hr(s) 2 lectures	Fellows	Department of Pediatrics
July 2009 - April 2014	Lecture: Pathophysiology and Treatment of Diabetic Ketoacidosis	Lecturer	1 hr(s) 3 lectures	Residents	Department of Pediatrics



Date	Course Name or Session Topic	Role	Number of Instruction Hours	Primary Learner Audience	Sponsoring Department or Organization
February 2011	Lecture: Genetic Short Stature for Endocrine Themes	Lecturer	1 hr(s) 1 lecture	Fellows	Department of Pediatrics
November 2010 - December 2010	Lecture: Pediatric Endocrine Emergencies	Lecturer	1 hr(s) 2 lectures	Fellows	Department of Pediatrics

### **Professional and Continuing Education Instruction**

Date	Course Name or Session Topic	Role	Number of Instruction Hours	Primary Learner Audience	Sponsoring Department or Organization
2018 - Present	Seminar: Harold Hamm Diabetes Summit	Course Director, Co-chair of the organizing committee	7 hr(s) Annually	Diabetes care providers	Harold Hamm Diabetes Center/ University of Oklahoma Health Sciences Center, Oklahoma City
November 17, 2023	Grand Rounds: Cardiometabolic Disease in Youth: What is the role of maternal diabetes?	Presenter	1 hr(s) Once	Pediatricians	Pediatrics, University of Texas Health Sciences Center, San Antonio, TX
November 15, 2023	Grand Rounds: Youth Onset Type 2 Diabetes: Treatments, Complications, and the Path to Improved Outcomes	Presenter	1 hr(s) Once	Endocrinologist	Endocrinology, University of Pennsylvania, Philadelphia, PA
February 5, 2023	Seminar: PESTOLA 2023	Chair of the Organizing committee	14 hr(s) Once	Providers in Pediatric Endocrinology and Diabetes	PESTOLA, Oklahoma City, OK
November 11, 2022	Continuing Education: Absentee Shawnee Tribal Health System Medical Team Meeting	Presenter	1 hr(s) once	Health care providers with the Absentee Shawnee Tribal Health System	Absentee Shawnee Tribal Health System, Virtual
October 28, 2022	Seminar: Genetic Basis of Adult Onset and Common Complex Disorders	Presenter	1 hr(s) once	Health care providers and people living with diabetes	All-Tribal Special Diabetes Program for Indians (Apache, Caddo, Cheyenne and Arapaho, and Kiowa Tribes), Ft. Cobb, OK
October 6, 2022	Continuing Education: Chickasaw Nation Medical Grand Rounds	Presenter	1 hr(s) once	Health care providers within the Chickasaw Nation	Chickasaw National Medical Center, Ada, OK
July 19, 2022	Continuing Education: Western Oklahoma Wellness Webinar	Presenter	1 hr(s) once	Health Care Providers in Western Oklahoma	Oklahoma Foundation for Medical Quality, Virtual
June 10, 2022	Presentation of study outcomes to Choctaw Nation Tribal Leaders	Presenter	3 hr(s) once	Leaders within the Choctaw Nation	Choctaw Nation, Durant, Oklahoma

<b>Date</b>	<b>Course Name or Session Topic</b>	<b>Role</b>	<b>Number of Instruction Hours</b>	<b>Primary Learner Audience</b>	<b>Sponsoring Department or Organization</b>
April 20, 2022	Guest Lecture: Oklahoma City Indian Clinic Medical Staff Meeting	Presenter	1 hr(s) once	Clinical Care providers with the Oklahoma City Indian Clinic	Oklahoma City Indian Clinic, Virtual
January 19, 2022	Guest Lecture: Choctaw Nation Medical Providers Monthly Meeting	Presenter	0.5 hr(s) Once	Health Care Providers within the Choctaw Nation	Choctaw Nation Health System, Virtual
December 8, 2021	Grand Rounds: Complications in Youth Onset T2DM: Outcomes from TODAY	Presenter	1 hr(s) Once	Colleagues	Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, OK
August 23, 2019	Continuing Education: Diabetes Jeopardy: 2019 ADA Standards of Care	Presenter	1 hr(s) Once	Primary care providers, Nurses, CDE, LD/RD	Medicine, Harold Hamm Diabetes Center, Oklahoma City, OK
August 23, 2019	Continuing Education: Pharmacotherapy in Youth: Insulins and Beyond	Presenter	1 hr(s) Once	Primary care providers, Nurses, CDE, LD/RD	Medicine, Harold Hamm Diabetes Center, Oklahoma City, OK
February 3, 2019	Continuing Education: PESTOLA; The Salt and Water Balance: Pathophysiology, Treatments, and a Few Interesting Cases	Presenter	1 hr(s) Once	Pediatric Endocrinologist and trainees at PESTOLA	Pediatrics, PESTOLA, Dallas, TX
October 13, 2018	Continuing Education: Harold Hamm Diabetes Care Summit; Diabetes in Youth: Type 1, Type 2, and a few other interesting characters	Presenter	1 hr(s) Once	Diabetes Health Care Providers	Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, OK
February 16, 2018	Workshop: Career Development	Presenter	1 hr(s) Once	Pediatric Endocrine Fellows at PESTOLA	PESTOLA, New Orleans, LA
October 27, 2017	Continuing Education: Harold Hamm Diabetes Care Summit	Presenter	1 hr(s) Once	Diabetes Health Care Providers	University of Oklahoma Health Sciences Center
February 24, 2016	Thyroid disease in the Newborn, Muffins and Medicine	Lecturer	1 hr(s)	Clinical Staff	University of Oklahoma Health Sciences Center
January 24, 2016	Continuing Education: PESTOLA; Turner Syndrome: Growth, Puberty and Beyond	Presenter	1 hr(s) Once	Pediatric Endocrinologist	PESTOLA, Fort Worth, TX
July 31, 2015	Turner Syndrome, Muffins and Medicine	Lecturer	1 hr(s) 1 lecture	Clinical Staff	Pediatrics, University of Oklahoma Health Sciences Center
May 6, 2015	Continuing Education: 18th Annual Primary Care Update: Pediatric Diabetes/Obesity Update	Presenter	1 hr(s) Once	Primary Health Care Providers	Family Medicine, OU College of Medicine, Oklahoma City, OK
April 30, 2014	Pediatric Grand Rounds: Turner Syndrome: Management and Update	Lecturer	1 hr(s)	Physicians	University of Oklahoma Health Sciences Center

Date	Course Name or Session Topic	Role	Number of Instruction Hours	Primary Learner Audience	Sponsoring Department or Organization
November 2012	Continuing Education: Changing Seasons in Neonatology: Thyroid Diseases	Presenter	1 hr(s) Once	Neonatology physicians and practitioners	Pediatrics, Neonatology, Oklahoma City, OK
June 2012	Guest Lecture: Turner Syndrome	Presenter	1 hr(s) Once	Patients with Turner Syndrome and their families	Regional Turner Syndrome Society Meeting, Oklahoma City
April 26, 2011	Endocrine Grand Rounds: Comparison of Vascular Compliance and Endothelial Function in Children	Lecturer	1 hr(s)	Endocrinologists	University of Oklahoma Health Sciences Center
March 2010	Adult Endocrine Grand Rounds: Lipoprotein Lipase Deficiency: Pathophysiology and Treatment	Lecturer	1 hr(s)	Endocrinologists	University of Oklahoma Health Sciences Center
February 2009	Adult Endocrine Grand Rounds: Kallman Syndrome: Molecular Basis and the Possible Link with Ahrinia	Lecturer	1 hr(s)	Endocrinologists	University of Oklahoma Health Sciences Center
October 2008	Pediatric Grand Rounds: A Comprehensive Approach to Managing DSD	Case Presenter	1 hr(s)	Pediatricians	University of Oklahoma Health Sciences Center
June 2007	Pediatric Grand Rounds: Bed Sharing and SIDS in Infants	Case Presenter	1 hr(s)	Pediatricians	University of Oklahoma Health Sciences Center
April 2007	Pediatric Grand Rounds: A Rare Complication of Frontal Sinusitis	Case Presenter	1 hr(s)	Pediatricians	University of Oklahoma Health Sciences Center

### **Graduate or Research Oversight Committee Membership**

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2021 - 2022	Jaime Duncan, BS	Master's Student, Pediatrics/Genetics, Genetic Counseling	Master's Advisory Committee Member - Serve as an advisor on the Master's Thesis Committee	Presented work at local pediatric research day as well as national genetic counseling conference. Successfully defended thesis.
2017 - 2020	Diana Hellman, MD	Fellow, Department of Pediatrics, College of Medicine, Diabetes/Endocrinology	Research Oversight Committee Member - Member of the scholarship oversight committee to provide assistance both technical and intellectual to Dr. Hellman's fellowship project.	Presented work at local meetings. Met the requirements for completion of scholarly work for fellowship completion.
2017 - 2019	Emily Teague, MS	Master's Student, Genetics, Department of Pediatrics, College of Medicine, Genetic Counseling Master's Program	Master's Advisory Committee Member - Advisor on Master's Thesis	Presented work at the Pediatric Research Day.

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2016 - 2018	Kruti Shah, MD	Fellow, Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, Pediatric Diabetes/Endocrinology Fellowship	Research Oversight Committee Member	Presented her work at the local pediatric Research day and Harold Hamm Diabetes Research Symposium. Was awarded the Silver Award for her presentation at the Harold Hamm Diabetes Research Symposium. Manuscript was published in Pediatric Research.
2016 - 2017	Jonathan Meyer, MD	Fellow, Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, Pediatric Diabetes/Endocrinology Fellowship	Research Oversight Committee Member	Work was presented that the local Pediatric Research Day. Presented Nationally at the American Diabetes Association Scientific Sessions. Met the requirements for scholarly work to complete fellowship.

### Mentoring and Advising

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2022 - Present	Wai Han Lee, BS	Research Technician, Diabetes & Endocrinology/Pediatrics/Medicine, Section of Diabetes and Endocrinology	Mentor - Mentored Wai Han as a research technician in presentation of her data.	2nd place presentation at Harold Hamm Research Symposium Poster presentation at Pediatric Research Day Selected as outstanding Abstract that PESTOLA regional meeting
2022 - Present	Hannah Meraou, MD	Resident, Pediatric Residency/Pediatrics/Medicine, Pediatric Residency Program	Mentor - Mentor for residency research project examining the impact of ACE on HbA1c in youth with type 2 diabetes	Abstracts are being prepared for the Southern Society of Pediatric Research and Pediatric Research Day.
2022 - Present	Dakota Redling, BS	Research Technician, Diabetes & Endocrinology/Pediatrics/Medicine, Section of Diabetes and Endocrinology	Mentor - Mentored Dakota as a research technician in presentation of her data.	2nd place presentation at Harold Hamm Research Symposium Poster presentation at Pediatric Research Day Selected as outstanding Abstract that PESTOLA regional meeting Accepted to graduate school
2021 - Present	Syed Talha Ahmed, MD	Fellow, Neonatology/Pediatrics/Medicine, Neonatology Fellowship	Mentor - Mentor on fellowship project	Outstanding Research Award at Pediatric Research Day Oral presentation at Pediatric Academic Society and Southern Society of Pediatric Research
2021 - Present	Marjorie Makoni, MD	Junior Faculty, Neonatology/Pediatrics/Medicine, University of Oklahoma Health Sciences Center	Mentor of Junior Faculty Research Development - Mentoring Dr. Makoni as she develops her research program and applies for external funding	Awarded pilot grant to collect preliminary data
2021 - 2022	Olivia Brooks, BA	Research Technician, Diabetes & Endocrinology/Pediatrics/Medicine, Diabetes & Endocrinology	Mentor - Mentoring Olivia as she presented data from our research	Oral abstract presentation at PESTOLA, PES, and Harold Hamm Research Symposium. Accepted to graduate school.

<b>Date</b>	<b>Mentee Name</b>	<b>Mentee Level/Program</b>	<b>Role/Involvement Type</b>	<b>Mentorship Outcomes</b>
2019 - 2022	Christopher Sebastian, MD	Resident, Pediatrics/College of Medicine, Pediatric Residency	Mentor - Mentor on Resident research project - DKA in youth with T1DM: Impact of geolocation	Presented work locally at pediatric research day as well as nationally at the Pediatric Academic Society as a poster presentation. Matched into Pediatric Endocrine fellowship.
2017 - 2021	Ankur Rughani, MD	Resident, Department of Pediatrics, College of Medicine, Pediatric Residency	Mentor - Mentor Ankur Rughani on his one month rotation in pediatric endocrine research experience	Poster presentation at PAS and Pediatric Research Day. Manuscript in preparation.
2017 - 2020	Maha Yousif, MD	Resident, Department of Pediatrics, College of Medicine, Pediatric Residency	Mentor - Mentor Maha Yousif on case presentation for regional pediatric endocrine meeting	Poster presentation at PESTOLA and pediatric Research Day OUHSC. Matched for pediatric endocrine fellowship.
2017 - 2020	Kathrine Butler, MD	Resident, College of Medicine, Department of Pediatrics, Pediatric Residency	Mentor - Serve as Faculty Mentor to Kathrine Butler, first year resident in the department of pediatrics. Meetings at least quarterly with advising on future plans.	Presented work locally at pediatric research day. Presented work nationally at the Pediatric Academic Society Meeting.
2017 - 2020	Diana Hellman, MD	Fellow, Section of Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, Pediatric Endocrine Fellowship	Mentor - Mentor in Clinical rotations as well as fellowship research project	Presented work locally at the Pediatric Research Day as well as the Harold Hamm Research Symposium. Completed Pediatric Endocrine fellowship.
2015 - 2018	Kruti Shah	Section of Diabetes/Endocrinology, Pediatric Endocrine Fellow	Mentor - Mentor on rounds and clinics and Case Report to be presented at SSPR, member of SOC	Grant funding, Poster presentation at regional and national meeting.
2014 - 2017	Jonathan Meyer	Section of Diabetes/Endocrinology, Pediatric Endocrine Fellow	Mentor - Mentor on rounds and clinics, member of SOC	Work was presented that the local Pediatric Research Day. Presented Nationally at the American Diabetes Association Scientific Sessions.
2012 - 2015	Eva Kalitzoglou	Section of Diabetes/Endocrinology, Pediatric Endocrine Fellow	Mentor - Mentor on rounds and clinics	Completed Endocrine fellowship and joined the faculty at University of Kentucky.
2011 - 2014	Monica Marin	Section of Diabetes/Endocrinology, Pediatric Endocrine Fellow	Mentor - Mentor on rounds and research project	Research was presented at local and national meetings. Manuscript was published in Journal of Clinical Lipidology. Completed fellowship and joined faculty at University of Oklahoma Health Sciences Center.
2011 - 2014	Paul Dasari	Fellow, Pediatric Endocrine Fellow	Mentor - Mentor on rounds and clinics	Completed fellowship and started a practice with the Oklahoma City Indian Clinic.
2014	Jada Etienne	Pediatrics, College of Medicine, Pediatric Residency Program	Mentor - Case Report submitted to SSPR	Clinical case was presented at the local pediatric research day as well as regionally at the Southern Society of Pediatric Research in New Orleans, LA.

<b>Date</b>	<b>Mentee Name</b>	<b>Mentee Level/Program</b>	<b>Role/Involvement Type</b>	<b>Mentorship Outcomes</b>
2011 - 2013	Anu Vishwanath	Section of Diabetes/Endocrinology, Pediatric Endocrine Fellow	Mentor - Mentor on rounds and clinics	Completed fellowship and joined the faculty at the University of Illinois College of Medicine.

## **CLINICAL SERVICE**

### **Clinical/Patient Care**

Director, Type 2 Diabetes Comprehensive Clinic (T2CC), Pediatrics, Oklahoma City, OK, September 2019 - Present

Contract Physician, Chickasaw Nation Medical Center, Ada, OK, July 1, 2011 - Present

Director, Turner Syndrome Clinic, Pediatrics, Oklahoma City, July 2011 - Present

Physician, OU Children's Physicians, Oklahoma City, OK, June 1, 2011 - Present

Physician, OU Children's Physicians at Mercy, Oklahoma City, OK, July 2015 - June 30, 2019

### **Hospital Privileges**

The Children's Hospital of Oklahoma, Oklahoma City, OK, July 1, 2011 - Present, Active

## **ORGANIZATIONAL SERVICE**

### **Organizational Administration and Leadership**

#### ***Campus/University***

Co-Chair, Harold Hamm Diabetes Center Summit, Harold Hamm Diabetes Center, College of Medicine, University of Oklahoma Health Sciences Center, 2018 - Present

#### ***Division/Section***

Organizer, Pediatric Endocrinology Journal Club, Section of Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2014 - 2018

### **Organizational Committee Service**

#### ***College***

Served as a mentor to answer questions regarding a career in Pediatric Endocrinology, American Medical Women's Association (AMWA) speed mentoring, American Medical Women's Association, College of Medicine, University of Oklahoma Health Sciences Center, 2017

#### ***Department***

Member, Section of Neonatology Fellows Scholarship Oversight Committee, Section of Neonatology, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2020 - Present

Interviewer, Pediatric Residency Interview Committee, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, November 13, 2018 - Present

Member, Pediatric Compensation Committee, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, July 2021 - 2022

Member, Section of Pediatric Emergency Medicine Fellows Scholarship Oversight Committee, Section of Pediatric Emergency Medicine, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2018 - 2021

### ***Division/Section***

Member, Pediatric Diabetes and Endocrinology Fellowship Program Evaluation Committee, Section of Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, May 2016 - Present

Member, Pediatric Endocrinology Core Competency Committee, Section of Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, 2014 - Present

Member, Pediatric Endocrine Fellowship Applicant Review Committee, Section of Diabetes/Endocrinology, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, July 1, 2011 - Present

## **PROFESSIONAL SERVICE**

### **National/International**

Member, Research Advisory Committee (RAC), Pediatric Endocrine Society, USA, April 2022 - Present

Reviewer, Pediatric Academic Society Abstract Review, Pediatric Academic Society, January 2022 - Present

Reviewer, Pediatric Endocrine Society 2023 Abstracts, Pediatric Endocrine Society, January 2023

Reviewer, American Diabetes Association 83rd Annual Scientific Session Abstracts, American Diabetes Association, San Diego, CA, United States, January 27, 2023

Reviewer, Ad-Hoc, Special Emphasis Panel ZDK1 GRB-S (J2), to review New Investigator Gateway Awards (R03) applications, NIH/NIDDK, Virtual, United States, October 24, 2022

Moderator, Pediatric Endocrine Society, Pediatric Endocrine Society, Virtual, April 29, 2022

Reviewer, Pediatric Endocrine Society 2022 Abstracts, Pediatric Endocrine Society, January 2022

Moderator, American Diabetes Association 81st Annual Scientific Session, American Diabetes Association, Virtual, June 25, 2021

Moderator, Pediatric Academic Society, Pediatric Academic Society, Virtual, April 30, 2021

Member, Comorbidities Assessment Committee, TODAY Study, March 2014 - April 30, 2021

Co-Chair, TODAY Babies Working Group, TODAY Study, July 23, 2018 - April 30, 2020

Member, Cardiovascular Biomarkers Working Group, TODAY study, July 2014 - April 30, 2020

Moderator, American Diabetes Association 78th Scientific Sessions, American Diabetes Association, Orlando, FL, United States, June 23, 2018

Moderator, Moderator for Abstract Session, American Diabetes Association, San Diego, CA, June 10, 2017

### **Local/Regional**

Reviewer, Seed Grant Review Panel, Presbyterian Health Foundation (PHF), Oklahoma City, United States, February 20, 2023 - Present

Reviewer, Seed Grant Review Panel, Presbyterian Health Foundation (PHF), Oklahoma City, United States, April 14, 2022 - Present

Physician, Lighthouse Medical Clinic, Lighthouse Medical Ministries, Oklahoma City, United States, January 2014 - Present

Abstract and Poster Judge, Pediatric Research Day, University of Oklahoma Health Sciences Center, Oklahoma City, OK, 2013 - Present

Member, Board of Directors, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas (PESTOLA), 2012 - Present

Chair, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas Annual Meeting 2023, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Oklahoma City, February 5, 2023 - February 6, 2023

Reviewer, The OSCTR Pilot Projects Program, Oklahoma Shared Clinical and Translational Resources (OSCTR), Oklahoma City, OK, USA, May 20, 2022

Reviewer, Pilot Project Reviews, Harold Hamm Diabetes Center, Oklahoma City, United States, April 8, 2022

Moderator, HHDC Research Symposium, University of Oklahoma Health Sciences Center, Oklahoma City, United States, November 13, 2020

Lecturer, College of Medicine - Summer Medical Program, University of Oklahoma College of Medicine, Oklahoma City, United States, June 2012 - June 2020

Medical Team Member Volunteer for Diabetes Camp, Camp Blue Hawk, Harold Hamm Diabetes Center, Oklahoma City, OK, July 2016 - July 2017

Poster Judge, HHDC Research Symposium, Harold Hamm Diabetes Center, Oklahoma City, OK, 2016

Reviewer, The OSCTR Pilot Projects Program, Oklahoma Shared Clinical and Translational Resources (OSCTR), Oklahoma City, OK, 2015

Poster Judge, HHDC Research Symposium, Harold Hamm Diabetes Center, Oklahoma City, OK, 2014

Chair, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas Annual Meeting 2014, Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas, Oklahoma City, January 24, 2014 - January 25, 2014



## **Editor, Editorial Board, Journal Reviewer**

Editor, Associate, Pediatric Diabetes, 2023 - Present

Editor, Associate, Pediatric Research, 2019 - Present

### **Ad-Hoc Reviewer:**

Bioengineered	2021 - Present
Cardiovascular Diabetology	2021 - Present
Current Issues in Molecular Biology	2021 - Present
Epigenomics	2021 - Present
Expert Opinion on Pharmacotherapy	2021 - Present
Journal of Child Science	2021 - Present
Cellular and Molecular Life Sciences	2020 - Present
FEBS Open Bio	2020 - Present
Journal of Human Hypertension	2020 - Present
Sensors	2020 - Present
The Journal of Maternal-Fetal & Neonatal Medicine	2020 - Present
Bioscience Reports	2019 - Present
Children	2019 - Present
Diabetes Care	2019 - Present
Endocrine, Metabolic and Immune Disorders-Drug Targets	2019 - Present
International Journal of Molecular Sciences	2019 - Present
International Journal of Obesity	2019 - Present
Journal of Clinical Medicine	2019 - Present
Journal of Medicinal Chemistry	2019 - Present
Metabolites	2019 - Present
Nutrients	2019 - Present
Pharmaceutical Statistics	2019 - Present
American Journal of Medical Genetics Part C: Seminars in Medical Genetics	2018 - Present
Clinical Science	2018 - Present
Pediatric Research	2018 - Present
ADA Abstract Review	2017 - Present
International Journal of Tropical Disease and Health	2017 - Present
Pediatric Diabetes	2017 - Present
PES Abstract Review	2017 - Present
The Lancet Diabetes and Endocrinology	2017 - Present
Pediatric Obesity	2016 - Present
Journal of Diabetes and Its Complications	2015 - Present
Pediatrics	2014 - Present
PAS Abstract Review	2012 - Present
American Journal of Medical Genetics Part C: Seminars in Medical Genetics	2019
International Journal of Molecular Sciences	2019
Bioscience Reports	2017
Journal of Scientific Research and Reports	2017
Clinical Medicine Insights: Blood Disorders	2016
The Journal of Pediatrics	2016
Diabetes Spectrum	2015
Journal of Family Medicine and Community Health	2015
PAS Workshop Reviewer	2015
PES: Research Fellowship Award: External Reviewer	2015
The International Journal of Biochemistry & Cell Biology	2015
Diabetes and Vascular Disease Research	2014

Drug, Healthcare and Patient Safety	2014
Endocrine Practice	2014
Diabetologia	2013
BMC Pediatrics	2011 - 2013
Pediatric Cardiology	2011

## PERSONAL COMMUNITY SERVICE

Member, Camp Blue Hawk Advisory Committee, Harold Hamm Diabetes Center Camp Blue Hawk, Oklahoma City, OK, 2016 - 2019

Pediatrician, Health Talents International (1 trip/year), Guatemala, May 2016 - May 2017

## MEDIA CONTRIBUTIONS

### Regional/Local

Interviewed Expert, KOCO - Channel 5, Morning Show, New FDA approval of Teplizumab, Interviewed as an expert in T1D in youth on the approval of Teplizumab to slow the progression of beta cell failure in T1D., November 30, 2022

Interviewed Expert, OETA, The Oklahoma News Report, Youth-Onset Type 2 Diabetes: TODAY study findings, Interviewed as the Oklahoma site PI for the NIDDK funded TODAY study demonstrating the aggressive nature of T2D in youth., August 16, 2022

Interviewed Expert, KOCO - Channel 5, Afternoon show, Childhood Obesity, Interviewed as a childhood obesity expert in providing recommendations for back to school., July 25, 2022

Interviewed Expert, OU Health Marketing, Top American Indian Health Concerns, Diabetes in Native Americans, January 19, 2022

Interviewed Expert, KOCO, Diabetes on the Rise?, Diabetes in Youth, July 7, 2021

Interviewed Expert, KFOR, Diabetes and COVID, February 12, 2021

Interviewed Expert, PESTOLA Endocrine Podcast, Episode #2 - Puberty, Turner Syndrome, Served as the expert on Turner Syndrome for a series of Podcasts presented by PESTOLA (Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas)., October 6, 2020

Host, PESTOLA Endocrine Podcast, Growth Hormone Deficiency, Growth Hormone Deficiency, Served as the host for expert Dr. Steven Chernausek on Growth Hormone Deficiency for PESTOLA (Pediatric Endocrine Society of Texas, Oklahoma, Louisiana, and Arkansas)., September 21, 2020

Interviewed Expert, KOCO Channel 5, Diabetes awareness, the situation in Oklahoma, the Hamm Foundation's \$34M donation, November 13, 2018

Interviewed Expert, OU Medical Center Live Chat, "Kids' Diabetes Dangers", February 2013

Interviewed Expert, Trinity Broadcast Network, "Growing Incidence of Diabetes in Oklahoma", January 2013

## PROFESSIONAL MEMBERSHIPS

American Academy of Pediatrics (AAP)	July 2022 - Present
Society of Pediatric Research (SPR)	January 2019 - Present

American Diabetes Association (ADA)	2015 - Present
Pediatric Endocrine Society (PES)	2012 - Present
Women in Pediatric Medicine	2014 - 2019
American Association of Clinical Endocrinologists (AACE)	2009
Endocrine Society	2009

## **PROFESSIONAL GROWTH AND DEVELOPMENT**

### **Meetings and Conferences**

Documenting ACGME Faculty Development in Activity Insight, University of Oklahoma Health Sciences Center, Oklahoma City, United States, 1 Credit Hours, 1 Hours Per Year, Once, March 1, 2022

QI Project Development, University of Oklahoma Health Sciences Center, Oklahoma City, United States, 1 Credit Hours, 1 Hours Per Year, February 22, 2022

QI: Tools, University of Oklahoma Health Sciences Center, Oklahoma City, United States, 1 Credit Hours, 1 Hours Per Year, October 26, 2021

Professional Development Series - Fatigue Mitigation Training, University of Oklahoma Health Sciences Center, Department of Pediatrics, Oklahoma City, OK, United States, 1 Credit Hours, 1 Hours Per Year, Annually, September 28, 2021

PESTOLA, PESTOLA, Austin, TX, United States, 9 Credit Hours, 9 Hours Per Year, Once, February 5, 2021 - February 6, 2021

Professional Development/QI Conference Series, OUHSC, Department of Pediatrics, Oklahoma City, OK, United States, 1 Credit Hours, 1 Hours Per Year, Once, August 25, 2020

PESTOLA 2020, University of Arkansas for Medical Sciences, Edmond, United States, 9 Credit Hours, 9 Hours Per Year, once, February 7, 2020 - February 9, 2020