

THE CENTER FOR DISCOVERY

# RECENT PUBLICATIONS



## **2026**

### **Prediction of Challenging Behaviors Associated with Profound Autism in a Classroom Setting Using Wearable Sensors**

**Author:** Yadhu Kartha, Conor Anderson, Jenny Foster, Theresa Hamlin, Johanna Lantz, Ryan Lay, Juergen Hahn, Gari D. Clifford, Hyeokhyen Kwon. (under review).

**Publication:** *ACM Health*

**Year:** 2026

### **Impact of COVID-19 on challenging behaviors of children with profound ASD in a residential facility.**

**Author:** Ferina, J., Anderson, C., Foster, J., Hamlin, T., & Hahn, J. (n.d.).(end round review).

**Publication:** *Focus on Autism and Other Developmental Disabilities*

**Year:** 2026

### **Gastrointestinal symptoms and autism-associated behaviors are linked to diet and the gut microbiome–metabolome in autism spectrum disorder.**

**Author:** Per, A., So, S. Y., Anderson, C., Serrano, A. V., Kochel, R., Berry, L., Redel, C., Runge, J. K., Rubio-Gonzales, M., Leeman, M., Murugesan, M., Powell, C., Williams, K., Savidge, T. C., Hamlin, T., Versalovic, J., Margolis, K. G., & Luna, R. A. (n.d.). (submitted).

**Publication:** *Cell*

**Year:** 2026

### **Natural environments support higher rates of moderate-to-vigorous physical activity compared to an indoor exercise environment for autistic youth.**

**Author:** Mateer, T.J., Xie, D., Cho, J.Y., Castellano, F., Wilcox, K.T., le Roux Ohm, H., Lantz, J.F., & Wells, N.M.

**Publication:** *Environmental Research Communications, Volume 8, Number 7*

**URL:** [Publication Here](#)

**Year:** 2026

### **Applying Lifestyle Medicine to Improve Health Outcomes in People with Developmental Disabilities. Author:**

Hamlin, T, Anderson, C, Lantz, J.F., Franck, J, le Roux Ohm, H., & Landry, D. (under review, final revisions).

**Publication:** *American Journal of Lifestyle Medicine*

**Year:** 2026

### **Caregiver perspectives on relationships with nature among autistic youth: A qualitative study of parents and educators.**

**Author:** Mateer, T.J., Save, V., Kazemi, S., leRoux Ohm, H., Lantz, J.F., & Wells, N.M. (under review).

**Publication:** *Health and Place*

**Year:** 2026

### **AI-supported residential care placement decision making for individuals with autism spectrum disorder and complex medical issues**

**Author:** Dando, E., Kruger, U., Anderson, C., Foster, J., Hamlin, T., & Hahn, J.

**Publication:** *Research in Autism*

**URL:** [Publication Here](#)

**Year:** 2026

**2025**

**Approaches for Predicting the Occurrence of Challenging Behaviors in Individuals with Autism Spectrum Disorder: A Narrative Review**

**Author:** Ferina, J., Dando, E., Anderson, C., Foster, J., Lantz, J., Hamlin, T., & Hahn, J.

**Publication:** *Journal of Personalized Medicine*

**URL:** [Publication Here](#)

**Year:** 2025

**Predicting seizure episodes and high-risk events in autism through adverse behavioral patterns.**

**Author:** Kiarashi, Y., Lantz, J., Reyna, M. A., Anderson, C., Rad, A. B., Foster, J., Villavicencio, T., Hamlin, T., & Clifford, G. D.

**Publication:** *Physiological measurement*

**URL:** [Publication Here](#)

**Year:** 2025

**The effect of the natural environment and greenness on behavior, function, and well-being among individuals with autism spectrum disorder: A scoping review**

**Author:** Nancy M. Wells, Jordan Tralins, Dongying Li, Timothy J. Mateer, Erin R.B. Eldermire, Helena le Roux Ohm, Johanna Lantz, Matthew R. Kibbee

**Publication:** *Journal of Environmental Psychology*

**URL:** [Publication Here](#)

**Year:** 2025

**From motion to emotion: exploring challenging behaviors in autism spectrum disorder through analysis of wearable physiology and movement**

**Author:** Rad, A. B., Villavicencio, T., Kiarashi, Y., Anderson, C., Foster, J., Kwon, H., Hamlin, T., Lantz, J., & Clifford, G. D.

**Publication:** *IOP Publishing Ltd*

**URL:** [Publication Here](#)

**Year:** 2025

## 2024

### **Off-body sleep analysis for predicting adverse behavior in individuals with autism spectrum disorder**

**Author:** Kiarashi, Y., Suresha, P. B., Rad, A. B., Reyna, M. A., Anderson, C., Foster, J., Lantz, J., Villavicencio, T., Hamlin, T., & Clifford, G. D.

**Publication:** *IEEE journal of biomedical and health informatics*.

**URL:** [Publication Here](#)

### **The IndieTrainer system: a small-scale trial exploring a new approach to support powered mobility skill acquisition in children**

**Author:** Lisa K. Kenyon, John P. Farris, Lindsey Veety, Brianna Kleikamp, Kara Harrington, Jennifer Jenkinson, Amanda Montgomery, Sango Otieno, Ian M. Russell and Daniel K. Zondervan

**Publication:** *Taylor & Francis Group*

**URL:** [Publication Here](#)

**Year:** 2024

## 2023

### **The IndieTrainer system: a clinical trial protocol exploring use of a powered wheelchair training intervention for children with cerebral palsy**

**Author:** Lisa K. Kenyon, John Farris, Lindsey Veety, Daniel K. Zondervan

**Publication:** *Taylor & Francis Group*

**URL:** [Publication Here](#)

**Year:** 2023

### **Predicting Problematic Behavior in Autism Spectrum Disorder Using Medical History and Environmental Data**

**Author:** Jennifer Ferina, Melanie Kruger, Uwe Kruger, Daniel Ryan, Conor Anderson, Jenny Foster, Theresa Hamlin, Juergen Hahn

**Publication:** *Journal of Personalized Medicine*

**URL:** [Publication Here](#)

**Year:** 2023

### **Regaining Trust in the Music: Music Therapy with Emily**

**Author:** Conio Loretto, MS, LCAT, MT-BC

**Publication:** Chapter in *Portraits of Everyday Practice in Music Therapy*

**URL:** [Publication Here](#)

**Year:** 2023

### **An evaluation on the effects of safe person handling program implementation at long term care facilities for persons with complex intellectual, developmental, and medical conditions**

**Authors:** Daniel Ryan, Conor Anderson, Ann Marie Connolly, Lindsey Veety, Tania Villavicencio, Lindsey Parks

**Publication:** *American Journal of Industrial Medicine*

**URL:** [Publication Here](#)

**Year:** 2023

## 2022

**Observational Study of Medical Marijuana as a Treatment for Treatment-Resistant Epilepsies Authors:** Orrin Devinsky, Angelica Marmanillo, Theresa Hamlin, Philip Wilken, Daniel Ryan, Conor Anderson, Daniel Friedman, George Todd

**Publication:** *Annals of Clinical and Translational Neurology*

**URL:** [Publication Here](#)

**Year:** 2022

## 2020

**Associated Factors of Self-injury Among Adolescents with Autism Spectrum Disorder in a Community and Residential Treatment Setting**

**Author:** Jacqueline Flowers, Johanna Lantz, Theresa Hamlin & Rune J. Simeonsson

**Publication:** *Journal of Autism and Developmental Disorders*

**URL:** [Publication Here](#)

**Year:** 2020

**Seating and positioning factors in wheeled mobility.**

**Author:** Veety, L & Baxter, A

**Publication:** *In K. Fleckey & L Gitlow (Ed), Assistive Technologies and Environmental Interventions in Healthcare (1st ed, pp.239-267). Hoboken, NJ: Wiley.*

**Year:** 2020

**Positioning and mobility technology and environmental interventions other than wheeled mobility.**

**Authors:** Veety, L & Baxter, A

**Publication:** *In K. Fleckey & L Gitlow (Ed), Assistive Technologies and Environmental Interventions in Healthcare (1<sup>st</sup> ed, pp.267-286). Hoboken, NJ: Wiley*

**Year:** 2020

## 2019

**Examining the Association Between Electrodermal Activity and Problem Behavior in Severe Autism Spectrum Disorder: A Feasibility Study**

**Authors:** Bradley J. Ferguson, Theresa Hamlin, Johanna F. Lantz, Tania Villavicencio, John Coles, and David Q. Beversdorf

**Publication:** *Frontiers in Psychiatry*

**URL:** [Publication Here](#)

**Year:** 2019

**Psychophysiological Biomarkers of Stress as Predictors of Behavioral Disturbance in Autism Spectrum Disorder**

**Authors:** Bradley J. Ferguson, Theresa Hamlin, Johanna Lantz, John Coles, Tania Villavicencio, David Beversdorf

**Poster Presentation:** *International Society for Autism Research (INSAR)*

**URL:** [Paper Here](#)

**Year:** 2019

## **2017**

### **Measuring Complexity for Autism Interventions: TCFD's Inventory of Neuroeducational Complexity.**

**Authors:** Theresa Hamlin, Ed.D, Jennifer Foster, Johanna Lantz, Matthew Northrup, Tania Villavicencio, Rune Simeonsson, Donald Lollar.

**Publication:** *J Child Dev Disord*.

**URL:** [Full Article Here](#)

**Year:** 2017

### **Recognize Need to Address Stress in Young Children with Autism.**

**Authors:** Contributions by Theresa Hamlin, Ed.D.

**Publication:** *SpecialEdConnection*®

**URL:** [Full Article Here](#)

**Year:** 2017

## **2016**

### **Wearable Stress Sensors for Children with Autism Spectrum Disorder With In Situ Alerts to Caregivers via a Mobile Phone**

**Authors:** C Matthew Northrup, Johanna Lantz, Theresa Hamlin

**Publication:** *JMIR Publications*

**URL:** [Wearable Stress Sensors for Children With Autism Spectrum Disorder With In Situ Alerts to Caregivers via a Mobile Phone](#)

**Publication Year:** 2016

### **Improving Social Functioning and Challenging Behaviors in Adolescents with ASD and Significant ID: A Randomized Pilot Feasibility Trial of Reciprocal Imitation Training in a Residential Setting.**

**Author:** Brooke Ingersoll, Natalie Berger, Danielle Carlsen & Theresa Hamlin.

**Publication:** *Developmental Neurorehabilitation*, 2016.261.261.

**URL:** [Full Article Here](#)

**Year:** 2016

### **Upper Extremity Neuro-Rehabilitation Through the Use of Power Mobility.**

**Authors:** John Damiao, MS, OTR/L, ATP/SMS, Danielle Kean, COTA/L.

**Publication:** *Assistive Technology Journal – Volume 28.1. 2016, Spring*.

**Year:** 2016

## **2015**

### **Finding a Piece of the Puzzle: Case Studies on Social Skills Development through Improvisation in an Intensive Treatment Model.**

**Author:** Beth Deyermond, MT-BC.

**Publication:** *Thesis submitted in partial fulfillment of the Master of Arts Degree, Saint Mary-of-the-Woods College, Saint Mary-of-the-Woods, IN, September 2015.*

**Magic Club: Another Therapeutic Trick up an OT's Sleeve.**

**Author:** Rachel Thompson, MS, OTR/L.

**Publication:** OT Practice Magazine 20.11: 17-19. 2015, June.

**URL:** [Full Presentation Here](#)

**Year:** 2015

**Restorative Sleep: A Life Essential.**

**Author:** Annelise Potgieter, PT, DPT, C/NDT; Lindsey Veety, PT, DPT, C/NDT, ATP; Amy Baxter, PT, DPT; Mary Delia Mahon, PT, MSPT; Melissa Grassi, OTR/L.

**Publication:** *NDTA Network. Vol. 22, Issue 3, Pages 14-18. 2015, May/June.*

## **2013**

**Social Intervention for Adolescents With Autism and Significant Intellectual Disability: Initial Efficacy of Reciprocal Imitation Training.**

**Author:** Ingersoll B, Walton K, Carlsen D, Hamlin T. American Journal on Intellectual and Developmental Disabilities, 2013, Vol. 118, No.4, 247-261.

**URL:** [Download Full Article \(PDF\)](#)

**Year:** 2013

**Creating a Stable Base for Success.**

**Author:** Veety, L., Baxter, A.

**Publication:** *Closing the Gap, pages 17-20. 2013, August/September*

**Year:** 2013