



UNIVERSITY OF DELAWARE
HEALTH SCIENCES

RESEARCH DAY 2023

Achieving Optimal Health
Across the Lifespan

AGENDA

- 8:00 - 9:00 am** Registration and Light Breakfast
First Poster Session Set-Up
- 9:00 - 9:05 am** **WELCOME:** Bill Farquhar, PhD, FACSM
Dean, UD College of Health Sciences
- 9:05 - 9:10 am** **REMARKS:** Eric Wommack, PhD
Associate Vice President, UD Research Office
- 9:10 - 9:15 am** **INTRODUCTION OF DR. SOUTHWELL:**
Jennifer Horney, PhD, MPH, CPH - *Founding Director, Epidemiology Program*
- 9:15 - 10:15 am** **KEYNOTE:** *Medical Misinformation as a Barrier in Optimal Health in Older Populations*

Brian Southwell, PhD – *Senior Director, Science in the Public Sphere Program in the Center for Communication Science at RTI International*
- 10:15 - 10:45 am** 1-minute Podium Poster Pitches
- 10:45 - 11:00 am** Coffee Break
- 11:00 am - 12:00 pm** First Poster Session
- 12:00 - 1:00 pm** Lunch
Second Poster Session Set Up
- 1:00 - 1:05 pm** **INTRODUCTION OF DR. ERICKSON:**
Chris Martens, PhD – *Director, Delaware Center for Cognitive Aging Research & Associate Professor, Kinesiology & Applied Physiology*
- 1:05 - 2:00 pm** **KEYNOTE:** *Effects of Exercise on Brain Health*

Kirk Erickson, PhD – *Director, Translational Neuroscience at Advent Health Research Institute*
- 2:00 - 2:30 pm** 1-minute Podium Poster Pitches
- 2:30 - 3:30 pm** Second Poster Session
- 3:30 - 3:45 pm** Ice Cream Break
- 3:45 - 4:00pm** Awards and Closing Remarks
-

POSTER PRESENTATIONS

First Poster Session - 11:00 am - 12:00 pm
**Podium Pitch Presentation (Randomly Selected)*

- 2**
Mitochondrial CD36 expression is increased in endothelial cells exposed to elevated glucose in Vitro
Erica Johnson, Nguyen, T., Fancher, I.
- 4***
Real-time PCR Tick Pathogen Testing Program in Delaware
Michael Buoni
- 6**
Structure-mediated sorting of circular and linear RNA cargo into EVs
Ahmed Abdelgawad, Vijay Parashar, Mona Batish
- 8**
Identification and characterization of the role of non-coding RNAs in spastic cerebral palsy
Brigitte Romero Carpio, Hoque, P., Robinson, K., Lee, S., Akins, R., Batish, M.
- 10**
Structural analysis of crosstalk between Type I and Type III CRISPR systems
Pengjun Xia, Dutta, A., Gupta, K., Batish, M. Parashar, V.
- 12***
Apiaceous vegetables decrease acrolein-induced pro-inflammatory cytokines in a mouse model of atherosclerosis
Brandy Le, Kim, J.K., Trabulsi, J.
- 14***
Application of Computational Biology to Decipher the Impact of ABCA4 Genetic Variants in Macular Degenerative Disease Prognosis
Senem Cevik*, Cevik S., Biswas S.B., Biswas-Fiss, E.
- 16**
CircFISH- a novel method for simultaneous imaging of linear and circular RNAs
Aakash Koppula, Abdelgawad, A., Guarnerio, J., Parashar, V., Batish, M.
- 18**
Human Papillomavirus (HPV) DNA replication initiation mediated by E1 and E2 proteins
Anshul Rana, Evande R., Biswas-Fiss E., Biswas S.
- 20**
Accelerating Vector Optimization for Cell Line Development in CHO Cells Using Site Specific Integration
Suzan Zien, Spencer Grissom, Mark Blenner, Rena So, Kayla Wolf, Zach Dixon
- 22***
Separation of Nucleotides Based on Charge Using AmberChrom Fine Mesh Ion Exchange Resin
Nikhita Bomasamudram, Mona Batish, Vijay Parashar, Parsa Sanjana Binte Hoque
- 24**
Association between Peak VO 2 and Sodium-induced Changes in Vascular Function
Serena Schade, Jordan C. Patik, Justin D. Mehrer, Shannon L. Lennon, William B. Farquhar, David G. Edwards
- 26***
Diet Quality, Endothelial Function, and Blood Pressure Variability in Healthy Young Adults
Andrea Lobene, Katarina Smiljanec, Shannon L. Lennon

POSTER PRESENTATIONS

- 30***
Role of physical activity and aerobic capacity in nocturnal blood pressure dipping after sodium loading
Zoe Lincoln, Patik, J., Mehrer, J., Lennon, S., Farquhar, W., Edwards, D.
- 32**
Habitual Physical Activity is Associated with Nocturnal Blood Pressure Dipping in Healthy Young Adults
Nathan Romberger, Romberger, N., Watso, J., Stock, J., McMillan, R., Pollin, K., Babcock, M., Robinson, A., Farquhar, W.
- 34**
Sensory Nerve Mediated Dilation is Blunted in Postmenopausal Women
Angelica Del Vecchio, Schwab, A.,
Kuczumski, A., McGinty, S., Wong, J., Wenner, M.
- 36**
Aerobic exercise training attenuates the peak blood pressure response to exercise in chronic kidney disease
Justin Mehrer, Joseph Stock, Danielle Kirkman, David G. Edwards
- 38**
Sleep Variability, Eating Timing Variability, and Carotid Intima-Media Thickness in Early Adulthood
Elissa Hoopes, Witman, M.A., D'Agata, M.N., Edwards, D.G., Robson, S.M., Malone, S.K., Keiser, T., Patterson, F.
- 40**
Associations between Physical Activity and Arterial Stiffness in Middle-Aged Women
Ericka A. Johnson, Angelica R. Del Vecchio, Allyson I. Schwab, Megan M. Wenner
- 42**
Gender & h-index in Epidemiology
Zackery White, Shaukat, S., Bitunguramy, A., Horney, J.
- 44***
Being at Risk for Type 2 Diabetes Increases Injury Severity with Achilles Tendinopathy
Andy Smith, Hayley Powell Smitheman, Donna Paulhamus, Carrie P. Earthman, Karin Grävare Silbernagel
- 46***
Post-Concussion Assessment Using Gamified Neurocognitive Performance in Collegiate Athletes
Caitlin Gallo, Anderson, M., Passalugo, S., Wilkins, L., Port, N., Buckley, T.
- 50**
The effect of metabolic factors on symptoms and function recovery in patients with Achilles tendinopathy
Hayley Smitheman, Kayla Seymore, Ryan T. Pohlig, Brian Honick, Karin Grävare Silbernagel
- 52***
Differences in Load, Explode, and Drive in Athletes Pre- and Post-Concussion using Sparta Science
Scott Passalugo, Caitlin A. Gallo, Melissa N. Anderson, Lauren J. Cardone, Isabelle G. Larch, Thomas A. Buckley
- 54**
Bye-bye Blood Flow: Exercise Reduces Neovascularization with Achilles Tendinopathy
Brian Honick, Seymore, K., Smitheman, H., Smith, A., Potter, M., Silbernagel, K.
-

56

Average Cadence Differences Between Mobile App and Instrumented Gait

Radhika Thakkar, Thakkar, R., Gallo, C., Anderson, M., Passalugo, S., Buckley, T.

58

Validating PROMIS and Neuro-QOL for Individuals with Major Upper Extremity Trauma

Aaron Boulton, Boulton, A., Tyner, C., Slotkin, J., Tulskey, D.

60*

Unbeknownst to the Montreal Cognitive Assessment, Many Adults with Acquired Neurological Conditions Report Communicative Challenges

Faith Stagge, Alyssa M. Lanzi, Matthew L. Cohen

62*

Screening for Major Depressive Symptoms and Suicidal Ideation among Adults with Lower-Limb Loss in Prosthetic Clinics: A Preliminary Study

Samantha Stauffer, Horne, J., Sions, J.

64

Peak Substrate Oxidation and Peak Oxygen Consumption are Diminished in Individuals with Mild Cognitive Impairment

Nicholas Rizzi, Kramer, M., DeConne, T., Ellison, J., Lanzi, A., Overstreet, M., Edwards, D., Cohen, M., Johnson, C., Martens, C.

66

Effects of Lower Body Negative Pressure on Critical Closing Pressure and Brain Tissue Mechanics in Healthy Young Adults

Fiona Horvat, Mary K. Kramer, Curtis L. Johnson, Christopher R. Martens

68*

Proprioceptive Thresholds as a Potential Predictor of Sensorimotor Function After Stroke

Joanna Eskander, Joanna E. Hoh, Kenna Gilley, Jean-Luc Marnet, Stephen H. Scott, Sean P. Dukelow, Jennifer A. Semrau

70

The Development of the Multifaceted Physical Activity and Sedentary Behavior Assessment for Adults with Intellectual Disability

Cora Firkin, Obrusnikova, I., Cavalier, A.R., Dominick, G.M., and Farquhar, W.B.

72

The Effect of Virtual Motor Interventions on Motor and Physical Activity Outcomes in Individuals with Various Developmental Disorders with and without Intellectual Disability: A Systematic Review

Jacob Corey, Jung-mei Tsai, Ashwin Mhadeshwar, Sudha Srinivasan, and Anjana Bhat

74

Investigating the Muscular and Energetic Effects of Varying Levels of PD-AFO Use in Typical Individuals

Jacob Skigen, Arch, E.

POSTER PRESENTATIONS

76*

Effects of Creative & General Movement Interventions on Fine-Motor, Gross-Motor, and Functional Skills of Children with ASD

Corina Cleffi, Cleffi, C., Su, W. C., Srinivasan, S., Bhat, A.

78*

The Effects of Play Education on Infant Position Using a Smart Garment

Abram Banoub, Banoub, Abram M., Orlando, Julie M., Lobo, Michelle A.

80

Toy Properties Impact the Exploratory Behavior of Infants

Samantha Namit, Julie M. Orlando, Michele A. Lobo

82

Out of Lab Stair Mechanics Differ Between Adults With and Without Knee Osteoarthritis

Julien Mihy, Wagatsuma, M., Mlecko, J., Hafer, J.

84*

The effects of healthy aging on upper- and lower-limb force control

Sophia Crisomia, Crisomia, S., Chung, J., Bower, A., Burciu, R.

86

Comparing gait between young and older adults using IMUs and optical motion capture

Grace Chesley, Wagatsuma, M., Mihy, J., Hafer, J.

88*

Sensory Re-weighting While Walking

Stephen DiBianca, Julia Gray, John Jeka, Hendrik Reimann

90*

Cervical Cancer Screening in Patients with HIV, Dar es Salaam, Tanzania:

Comparing effectiveness of peer-navigator and community health workers for screening and digital follow-up

Adam Bitunguramye, Jennifer Horney

92*

Using Epidemiologic Methods to Quantify Disease Burden in Complex Emergencies: Applications to disaster epidemiology

Sarah Elizabeth Scales

94

Pregnant and Lactating Persons: Past, Present, and Future

Sarah Wells, Wells, S., Baisden, K., Sahin, L., Yao, L.

96

The Associations between Place-Based Measures of Walkability and Physical Activity across a Range of Diverse Streetscapes

Kristin Kelly, Suminski, R.

100

The Development of a Conceptual Framework for Inclusive Fitness for Adults with Intellectual Disability

Iva Obrusnikova, Obrusnikova, I., Cavalier, A. R., Suminski, R. R., Firkin, C. J., Steinbrecher, A. M.

102*

Examining Sedentary Behavior in Adults with Intellectual Disabilities Living in Group Homes: Study Protocol & Preliminary Results

Paige Laxton, Paige Laxton, Sean Healy, Elizabeth Orsega-Smith, Julie Daly, Lee Smith, Bryan McCormick, Freda Patterson

104*

Designing and Developing a Control Condition for a Randomized Clinical Trial Assessing a Psychosocial Symptom Monitoring and Self-Management System for Individuals with SCI

Trevor Sanchez Stevens, Kisala, P., Slotkin, J., Tulskey, D.

106

Expressed human milk and the microbiome: exploring gut microbiome development in the first month of life for low-income African American Infants: A pilot study

Nicole Moody, Rebecca C Robert, Sahira Long, Jasmin Larios Flores, Erynn Richards, Cindy M Liu, Daniel Park, Caitlin Horn, Jessica Nash, Amira Roess

108

Social Support, Acculturation, Maternal Self-Efficacy and Postpartum Depression in Immigrant Asian Indian Women in the United States

Grace Mary George, Shin, J.Y, Wright, R.S., & Patterson, F.

110

Clinical Health Coaching- Pregnant and Postpartum Women (CHC-PPW) Year 2 Implementation

Rachel Samson, T, Leonard., E. Orsega Smith

112*

Sociodemographic and other characteristics of infants in the United States by milk feeding type: NHANES 2007-2018

Nicole Boylan, Alisha Rovner, Jessica Eosso Decker, Michelle Delahanty, Jillian Trabulsi

114*

Associations Between Food Insecurity and Sleep in Preschool Children and their Parents

Emma Archer, Robson, S., Covington, L.

116

Circadian Timing of Sleep and Eating Relative to Biological Timing Using Dim Light Melatonin Onset (DLMO) Methodology

Maria Taplin, Hoopes, E.K., Keiser, T., Goel, N., Witman, M.A., Patterson, F.

118

Associations Between Sleep Disturbance and Pain in Middle-aged and Older Adults With Arthritis: Race/Ethnicity as a Moderator

Sanaz Taherzadeh, Dr. Xiaopeng Ji

120

The Relationship between the Physical Home Food Environment, Diet Quality, and Weight Status in Children

Adriana Verdezoto Alvarado, Robson, Shannon

122*

Stressful Family Context: A Snapshot of Daily Life

Hannah Faulkner, Freda Patterson, Destiny Mahmood, Emma Archer, Lauren Covington

124

The impact of dietary salt and fructose on blood pressure in normotensive adults: protocol implementation

Ronald McMillan, Joseph Stock, Nathan Romberger, Sheau Chai, William Farquhar

126

Longitudinal changes in body weight, body fat, dietary intake, and physical activity following a health screening among obese and non-obese male firefighters

Anita Dini, Dini, A., Suminski, R., Chai, SC.

128

The Impact of Produce Prescription Programs on Fruit and Vegetable Intake and Cardiovascular Risk Factors: A Systematic Review

Zoe Harper, Harper, Z., Verdezoto Alvarado, A., Katz, S., Rovner, A., Anderson-Steeves, B., Raynor, H., Robson, S.

130

Drowning out the noise: Examining the role of the auditory home environment on cognitive and linguistic development

Mackensie Blair, A. Mels Ayala, Giovanna Morini

132*

Dysrhythmic Speech is a Characteristic of Developmental Stuttering in Adults

Janina Boecher, Evan Usler, Kathryn Franich

134

Delaware Stuttering Project

Samuel Farrand, Ho Ming Chow, Evan Usler

POSTER PRESENTATIONS

Second Poster Session - 2:30 - 3:30 pm
**Podium Pitch Presentation (Randomly Selected)*

1*
Impairment of endothelial Kir channels in response to elevated glucose is independent of changes in channel expression

Masoumeh Sadeghinejad, Erica Johnson, Ibra S Fancher

3
CD36 ablation restores endothelial function in mesenteric arteries of diet-induced obese mice

Sabita Rokka, Emma Hudgins, Adam Bonar, Ibra S Fancher

5
Structural Analysis of Swarming Motility in Bacilli

Richard Knappenberger, Parashar, V.

7*
Implementation of circFISH for imaging and quantifying circNFIX expression in Cerebral Palsy

Parsa Sanjana Binte Hoque, Romero, B., Batish, M

9
Metabolic Regulation of Cyclic-di-AMP in Mycobacterium tuberculosis

Sadik Sattar, Parashar, V.

11*
Protection of Apiaceous Vegetable Consumption on Acrolein-Induced Lung Vasculopathy

Liana Crowley, Crowley, L., Brannick, E., Trabulsi, J., Kim, J.K.

13
Setting the Conditions for Sterility and Endotoxin Testing for the Protocol of Injecting Bone Marrow Concentrate for knee Osteoarthritis

Gabrielle Dammers, Justin Rowe, Kimberly Walker Ph.D., MT(ASCP), and Daniel White PT, ScD, MSc

15
Structure-Function Analysis of ABCA4 Membrane Transporter: Development of a Soluble Model System

Albtool Alturkestani, Albtool Alturkestani, Esther E. Biswas-Fiss, and Subhasis Biswas

17
Gut Microbiome Dysbiosis in an Animal Model of Stuttering: Rationale and Experimental Design

Sayan Nanda, Nanda, S., Lamot, B., Guarino, N., Usler, E., Chugani, D., Dutta, A., Chow, HM.

19
Molecular basis of interaction between the HPV E2 protein and its binding site variants

Roxanne Evande, Subhasis Biswas

21
In Silico and Functional Analyses of the ECD2 Domain of ABCA4 and its Role in Inherited Macular Degeneration

Jazzlyn Jones, Biswas S., Biswas-Fiss E.

23
Investigating Protein Receptors of Cyclic Oligoadenylates and Novel Pyrimidine-based Cyclic Dinucleotides

Julia Perkowski, Vijay Parashar

POSTER PRESENTATIONS

25*

Effect of menstrual cycle phase on wave reflections and wasted pressure effort in premenopausal women

Ninette Shenouda, Lincoln, Z., Chirinos, A., Edwards, D.

27

Characterizing Short-Term Linear and Nonlinear Heart Rate Variability (HRV) in Duchenne and Becker Muscular Dystrophy

Alexs Matias, Szymanski, K.M., D'Agata, M.N., Scavina, M., McCulloch, M.A., Edwards, D.G., Witman, M.A.

29

Graded Exercise Tests in People with Stroke: How Much do Neuromuscular Factors Influence Results?

Kiersten McCartney, Tamara Wright, Henry Wright, Darcy Reisman

31

Sodium density associates with nighttime systolic blood pressure in young healthy adults

Michael Axler, Lobene, A., Kaseman, K., Awayes, Y., Lennon, S.

33*

Psychological and Physiological Responses to a 10-Week Internal Cues Intervention with an Experiential Meal: A Case Series

Julia Katcher, Katcher, J. A., Skubisz, C., Jaremka, L. M., & Pacanowski, C. R.

35

Weekly Regularity is More Important than Daily Regularity for Meeting Physical Activity Guidelines in Young Adults: A Prospective Study

Thomas Keiser, Hoopes, E., Brewer, B., Witman, M., Taplin, M., Malone, S., Patterson, F.

37*

Effects of bioidentical hormone therapy on endothelial function and blood pressure

Allyson Schwab, Del Vecchio, A., Johnson, E., Haigh, K., Wenner, M.

39

Effects of Bioidentical Hormone Therapy on Blood Pressure Variability in Menopausal Women

Lauren O'Hara, O'Hara, L., Schwab, A., Del Vecchio, A., Johnson, E., Haigh, K., Wenner, M.

41

Mitigating the Epigenetic Consequences of Early Life Stress with Exercise

Aimee Skweres, Katelyn Donoghue, Sam Fern, Urmi Gosh, Jessica Smith, Christina Nelson, Taylor Campbell, & Tania Roth

43

Does daily step count and physical activity minutes differ among those with Achilles tendinopathy?

Morgan Potter, Hanlon, S.L., Smitheman, H.P., Scattone Silva, R., Silbernagel K.G.

45

Associations of anthropometric characteristics with body image in athletes: A systematic review

Mary Webb, Mary D. Webb, Melissa M. Melough, Carly R. Pacanowski

47*

Metabolic Factors Impact Structural Adaptations During Exercise Treatment in Patients with Achilles Tendinopathy

Kayla Seymore, Hayley Powell Smitheman, Brian Honick, Andy K. Smith, Morgan N. Potter, Karin Grävare Silbernagel

49*

Prevalence of Medical Co-Morbidities in Diabetic Athletes and Comparison of Preseason Concussion Test Battery Outcomes in Intercollegiate Athletes

Melissa Anderson, Passalugo, SW., Gallo, CA., Nimeh, JM., Edgar, R., Buckley, TA.

51

Calf Size in Patients with Unilateral Midportion Achilles Tendinopathy

Kayla Miller, Potter, M., Smitheman, H., Silbernagel, K.

53

Pickleball Motivation Among Physically Active Older Adults

Delaney Moore, Orsega-Smith, E. PhD

55*

Evaluating differences between runners and non-runners with midportion Achilles tendinopathy: A cross-sectional study

Madison Thureen, Powell Smitheman, H., Grävare Silbernagel, K.

57

Analyzing Sparta Score over the course of a season for collegiate contact athletes using Sparta Science

Lauren Cardone, Scott W. Passaluo, Caitlin A. Gallo, Melissa N. Anderson, Thomas A. Buckley

59*

Caregiver Mental Health Symptoms and Objective Sleep Quality in Socioeconomically Disadvantaged Families

Rayne Roberts, Patterson, F., Covington, L.

61*

Establishing the DementiaBank Protocol: Using Big Data to Understand Language Changes in Dementia

Anna Saylor, Cohen, M.L., Fromm, D., MacWhinney, B., & Lanzi, A.M.

63*

Feasibility, Acceptability, and Preliminary Efficacy of the MIND/MOVE Yourself Program to Reduce Stress Among College Students with Intellectual Disabilities

Brittany Powers, Patterson, F., Freedman, B., Giancola, S., Pacanowski, C., & Healy, S.

65

Cognitive Function vs Brain Function in an Older Adult Population

Amy Nichols, Orsega-Smith, E., Getchell, N., & Ruggiero, L.

67

An Estimate of Sedentary Behavior in Adults with Knee Osteoarthritis and Exploratory Associations with Baseline Characteristics

Thomas Bye, Jason Jakiela, Andrew Pechstein, Jessica Aily, Laura Schmitt, Dana Voinier, Daniel White

69

Characterizing movement-evoked pain responses to functional tasks in a sample of adults with low back pain

Katie A. Butera, Fox E.J., Bishop M.D., Coombes S.A., George S.Z.

71

The Effects of Ankle-Foot Orthosis Stiffness on Ankle Biomechanics during Walking in Participants Post-Stroke

Shay Pinhey, Jacob Skigen, Zahra McKee, Elisa Arch

POSTER PRESENTATIONS

73*

Understanding the relationship between limb position sense and oculomotor proprioceptive estimations in individuals with stroke

Duncan Tulimieri, Tulimieri, Duncan T., Austin, Devin S., Hoh, Joanna Eskander, Singh, Tarkeshwar, Semrau, Jennifer A.

75

Ankle Mechanics of PD-AFO Walking Can Improve After Physical Therapy Training: A Case Study

Zahra McKee, Jacob Skigen, Darcy Reisman, Elisa Arch

77

Popular Information about Infant Development and Play: A Content Analysis

Julie Orlando, Julie M. Orlando, Andrea B. Cunha, Zainab Alghamdi, Michele A. Lobo

79

The Effect of Digital/Virtual Motor Interventions on Motor, Social, and Cognitive Outcomes in Individuals with Various Developmental Disorders with and without Intellectual Disability: A Systematic Review

Jung Mei Tsai, Jacob, C., Ashwin, M., Sudha, S., Anjana, B.

81

Low initial motor unit firing rates reduce rates of force development in people with Parkinson's disease

Rebecca Daniels, Guidash, M, Knight, CA

83

Using a tablet device to understand spatial and temporal measures of the upper limb in individuals post-stroke

Devin Austin, Devin Austin, Makenna J. Dixon, Joanna Hoh, Duncan Tulimieri, Joshua Cashaback, Jennifer Semrau

85*

Bout Duration During Out-of-lab Walking Affects Gait Kinematics

Mayumi Wagatsuma, Mihy, J., Cain, S., Hafer, J.

87

Improvements in somatosensation and dynamic balance during postural transitions with the use of stochastic resonance stimulation in an individual with cerebral palsy – a case study

Khushboo Verma, Verma, K., Sansare, A., Alsaqabi, E., Reimann, H., Lee, S.

89*

Is There A Relationship Between Self-Reported Joint Health And Objective Stair Performance In Adults With Knee Osteoarthritis?

Jenna Mlecko, Mihy, J., Wagatsuma, M., Hafer, J.

91

Characteristics of Individuals Affected by COVID-19 More Than Four Weeks After Initial Diagnosis – An All of Us (AoU) Cohort Analysis

Amirah Ellis-Gilliam, Ellis-Gilliam, A., Horney, J.

93*

Assessing the Feasibility and Health Behavior Outcomes of a Community-Based Group Health Coaching for Cancer Survivors Program

Nicole Berzins, Berzins, N., Orsega-Smith, B., Mackenzie, M., Galantino, M.L., Culos-Reed, N., Leonard, T., Narducci, E.

- 95***
Assessing The Pathway Between Health Care Utilization And Hypertensive Outcomes Among Young Adult African American Medicaid Beneficiaries In Delaware
Asli McCullers, Nescott, E., Cuffee, Y.
- 97**
Health for All: Impacts on New Castle County, Delaware Residents, Organizations, and College of Health Science Students
Emma Mathias
- 99***
Associations of Socioeconomic Position and Supplemental Nutrition Assistance with Exposures to Endocrine-Disrupting Chemicals
Peyton Free
- 101***
How COVID-19 Impacted People with Disabilities: A Qualitative Study in Delaware
Lauren Rechner, Dr. Jennifer Horney
- 103**
Measuring Symptom Clusters in People with Sudden-Onset Disabilities
Chloe DeHart, DeHart, Chloe, Kisala, Pamela, Boulton, Aaron, Tyner, Callie, Slotkin, Jerry, Tulsy, David
- 105***
Diabetes prevention awareness, risk factors, and lifestyle patterns in older adults attending senior centers
Sophia Kayatta, Dr. Ruggiero, L., Dr. Orsega-Smith, E., Samson, R., Fitzpatrick, M.
- 107**
Cancer and the family: Diversity in Family Structure among Individuals with Cancer: Variations by Sex and Race/Ethnicity
Charlotte Osei Poku, Nicole S. McKinney, Alliric Willis, Frances M.Lewis, Shannon Virtue, Adam Davey
- 109**
The Community Assessments for Public Health Emergency approach to Community health needs assessments through vital conditions
Braulio Florentino Benitez
- 111**
Age Is Associated With Objectively Estimated Sleep Regularity in Youth, Independent of Sleep Duration
Michele D'Agata, Elissa Hoopes, Bray Fedele, Krista Szymanski, Alexs Matias, Melissa Witman
- 113***
Day-to-day Associations between Nightly Sleep, Sedentary Behavior and Physical Activity in Under-resourced Caregiver-Child Dyads
Destiny Mahmood, Freda Patterson, Benjamin Brewer, Elissa Hoopes, Lauren B. Covington
- 115**
Clinical Applications of Body Composition and Functional Status Tools for Nutritional Assessment of Hospitalized Adults: A Systematic Review
Luke Smith, Earthman, C., Olieman, J., Berk, K., Lighthart-Melis, G.

POSTER PRESENTATIONS

Second Poster Session - 2:30 - 3:30 pm
*Podium Pitch Presentation (Randomly Selected)

117*

Perception About Sleep Health and Sleep Health Chatbot Utilization Among High-Risk Emerging Black/African American Adults

Sanaz Taherzadeh, (OrsegaSmith, E., Patterson, F., Ji, X.)

119

High sodium diet and intestinal permeability in young, healthy adults

Kathryn Kaseman, Kaseman, K., Smiljanec, K., Lobene, A., Axler, M., Lennon, S.

121*

Pediatric Sleep Study Flagging Etiologies and Impact on Clinical Timeline

Victoria Gatta, Seema Rani, MD; John Schanz MS4; Victoria Gatta, RPSGT; August Kolb; Abigail Strang, MD; Aaron Chidekel, MD

123*

Effect of an Apiaceous or Cruciferous Vegetable on the Diversity of the Infant Gastrointestinal Microbiota: A Feasibility Study

Lynn Ferro, Shawn Polson, Sabrina P. Trudo, Kyle Bittinger, Jae Kyeom Kim, Jillian C. Trabulsi

125

Acute Effects of a Western-Style Meal on Serum Lipids, Uric Acid, and Cerebrovascular and Cognitive Function

Faria Sanjana, Rizzi, N, Decker, K, Kramer, M, Cerjanic, A, Farquhar, W, Lennon, S, Johnson, C, Martens, C

127

The Impact of Time Restricted Eating on Eating Behaviors, Diet Quality, Body Weight, and Body Composition: Protocol for a Single Arm Study in Emerging Adult Females who are 'Night Eaters'

Diane Vizthum, Freda Patterson, Carrie Earthma, Melissa Meloug, Carly Pacanowski

129

Social Vocalization and Neuroanatomy in a Genetic Mouse Model of Stuttering

Bryan Lamot, Sayan Nanda, Nicole Guarino, Evan Usler, Diane Chugani, Joshua Neuebel, Aditya Dutta, Ho Ming Chow

131

Identifying Neural Correlates of Motivation During Speech Production

Evan Usler, Brumond, G., Koski, J.

133*

An Automatic Speech Pause Analysis Pipeline to Study Pausing Characteristics in People with Fluency Disorders

Vishruta Yawatkar, Evan Usler

135*

Recruitment procedures and results across two clinical trials for children with developmental language disorder

Samantha Weatherford, Hiebert, L., Weatherford, S., Van Horne, A.

ACKNOWLEDGEMENTS

Thank you to all the individuals who made today possible.

Research Advisory Committee

Sam Biswas, *Medical and Molecular Sciences*
Tom Buckley, *Kinesiology and Applied Physiology*
Matt Cohen, *Communication Sciences and Disorders*
Jen Horney, *Epidemiology*
Freddie Patterson, *Behavioral Health and Nutrition*
Karin Silbernagel, *Physical Therapy*
Maria Taylor, *CHS Facilities*

Coordination & Support

Gina Kinderman, *CHS Chief of Staff*
Debbie Martini, *Special Projects*
Karen Sunkler, *Events Manager*
Kristen Troy, *Digital Communications Specialist*

Abstract Reviewers

Maelyn Arcodia – BIOMS
Mackensie Blain – CSCD
Michael Buoni – MMS
Senem Cevik – MMS
Adam Davey – BHAN
Sharon Dudley-Brown – SON
Drew Fancher – KAAP
Lynn Ferro – BHAN
Bebe Gaynor – SON
Elissa Hoopes – BHAN
Naoaki Ito – BIOMS
Patrick Knox – BIOMS
Sarah Scales – EPI
Ninette Shenouda – KAAP
Joe Stock - KAAP
Elizabeth Thompson – PT
Anne Van Zelst – CSCD
Kimberly Walker – MMS

Poster Reviewers

Community

Mark Bendett, PhD
Denee Crumrine
Michael Fleming
Linda Laskowski-Jones
Seema Rani, MD
Abigail Strang, MD
David Tam, MD
Mark Thompson
Avani Virani, MD

College of Health Sciences

Katie Butera – PT
Lauren Covington - BHAN
Kevin Decker – KAAP
Virginia Hughes – MMS
Xiaopeng Ji – SON
Beth Orsega-Smith – BHAN
Vijay Parashar – MMS
Jee Won Park – EPI
Shannon Robson – BHAN
Evan Usler – CSCD
Megan Wenner – KAAP
Dan White – PT

