List of Publications

Behavioral Treatment of Insomnia with Concurrent Nocturia
Shachi Tyagi, Becky Clarkson, Subashan Perera, Kandy Newell, Neil Resnick, Daniel Buysse
APSS Abstract 0344, 2023
University of Pittsburgh Medical Center

Cardiopulmonary Coupling as An Alternative to Classic Home Sleep Apnea Testing: Head to Head Assessment
Jerald Simmons, Robert Thomas, Keri Gregory, Cole Feuquay, Chris Mann
APSS Abstract 0457, 2023
Comprehensive Sleep Medicine Associates
Beth Israel Deaconess Medical Center

Individuals with Presistent Low Back Pain Have Less Time in Deep Sleep Stage Than Asymptomic Controls
Xuwen Wang, Erin Kishman, John Gilliam, Jennifer Vendemia, Sheri Silfies
APSS Abstract 0845, 2023
University of South Carolina

The Effects of Acute Sleep Curtailment on Salt Taste Measures and Relationships with Energy-Corrected Sodium Intake: A Randomized Cross-Over Trial with Methodology Validation
Chen Du, Russell Keast, Sze-Yen Tan and Robin M. Tucker
Michigan State University
Deakin University

Re-evaluating two popular EEG-based mobile sleep-monitoring devices for home use
Emily Wood, James K Westphal, Itamar Lerner
The University of Texas at San Antonio

Circadian acclimatization of performance, sleep, and 6-sulfatoxymelatonin using multiple phase shifting stimuli
Shawn D. Youngstedt, Jeffrey Elliott, Salma Patel, et al
Arizona State University
University of Arizona
University of California San Diego
California State University
University of Nevada
Johns Hopkins University

Daily Relations Between Stress and Electroencephalography-Assessed Sleep: A 15-Day Intensive Longitudinal Design With Ecological Momentary Assessments
Yang Yap, Natasha Yan Chi Tung, Jorja Collins, Andrew Phillips, Bei Bei, Joshua F. Wiley
Annals of Behavioral Medicine, 2022, kaac017, https://doi.org/10.1093/abm/kaac017
Monash University
Effects of Limiting Recreational Screen Media Use on Physical Activity and Sleep in Families With Children: A Cluster Randomized Clinical Trial
Jesper Pedersen, Martin Gillies Banke Rasmussen, Sarah Overgaard Sørensen, Sofie Rath Mortensen, Line Gronholt Olesen, Jan Christian Brønd, Søren Brage, Peter Lund Kristensen, Anders Grøntved
JAMA Pediatrics, Published online May 23, 2022. doi:10.1001/jamapediatrics.2022.1519
University of Southern Denmark
University of Cambridge

A Model For a Chronic Napping in Older Adults at Risk for Alzheimer’s Disease
Shawn Youngstedt, Siddhartha Angadi, Megan Petrov, Salma Patel
APSS Abstract 0098, 2022
Arizona State University
University of Virginia
University of Arizona

Impact of daily caffeine intake and timing on electroencephalogram-measured sleep in adolescents
Jessica R. Lunsford-Avery, Scott H. Kollins, Sujay Kansagra, Ke Will Wang, Matthew M. Engelhard
Duke University School of Medicine
Duke University

The complicated impact of media use before bed on sleep: Results from a combination of objective EEG sleep measurement and media diaries
Morgan E. Ellithorpe, Ezgi Ulusoy, Allison Eden, Lindsay Hahn, Chia-Lun Yang, Robin M. Tucker
Journal of Sleep Research, 08 February 2022; https://doi.org/10.1111/jsr.13551
University of Delaware
Michigan State University

Feasibility of two screen media reduction interventions: Results from the SCREENS pilot trial
Rasmussen MGB, Pedersen J, Olesen LG, Kristensen PL, Brønd JC, Grøntved A
Centre of Research in Childhood Health, Research Unit for Exercise Epidemiology, Department of Sports Science and Clinical Biomechanics
University of Southern Denmark

Manual Annotation of Time in Bed Using Free-Living Recordings of Accelerometry Data
Esben Lykke Skovgaard, Jesper Pedersen, Niels Christian Møller, Anders Grøntved and Jan Christian Brønd
Sensors 2021, 21, 8442. https://doi.org/10.3390/s21248442
Centre of Research in Childhood Health, Research Unit for Exercise Epidemiology, Department of Sports Science and Clinical Biomechanics
University of Southern Denmark

How much does sleep vary from night-to-night? A quantitative summary of intraindividual variability in sleep by age, gender, and racial/ethnic identity across eight-pooled datasets
This research was supported by National Institute of Allergy and Infectious Diseases grant 1R01AI128359-01 and the 2021 International Collaborative Research Award sponsored by the Society for Health Psychology (SfHP)
University of North Texas
Monash University
University of Arizona
**FLUID study: study protocol for an open-label, single-centre pilot study to investigate the effect of Lemborexant on sleep management in Japanese subjects aged 50 years and older with Insomnia Disorder**
Ippei Okada, Kunihiro Iwamoto, Seiko Miyata, Akihiro Fujimoto, Masaki Tanaka, Manabu Amano, Nao Matsuyama, Toshiaki Taoka, Shinji Naganawa, Norio Ozaki
BMJ Open (2021) 11:e054885; https://bmjopen.bmj.com/content/11/11/e054885
Nagoya University
Eisai Co Ltd

**Napping on the night shift and its impact on blood pressure and heart rate variability among emergency medical services workers: study protocol for a randomized crossover trial**
P. Daniel Patterson, Leonard S. Weiss, Matthew D. Weaver, David D. Salcido, Samantha E. Opitz, Tiffany S. Okerman, Tanner T. Smida, Sarah E. Martin, Francis X. Guyette, Christian Martin-Gill, and Clifton W. Callaway
University of Pittsburgh

**Sleep quality and glycaemic variability in a real-life setting in adults with type 1 diabetes**
Rachel Brandt, Minsun Park, Kristen Wroblewski, Lauretta Quinn, Esra Tasali, Ali Cinar
Diabetologia, 64:2159–2169, 2021
Illinois Institute of Technology
University of Illinois at Chicago
University of Chicago

**Beneficial effects of a high protein breakfast on fullness disappear after a night of short sleep in nonobese, premenopausal women**
Chia-Lun Yang, Robin M. Tucker
Physiology & Behavior, Volume 229, 1 February 2021, 113269
Michigan State University

**Evaluation of the Consensus Sleep Diary in a community sample: comparison with single-channel EEG, actigraphy, and retrospective questionnaire**
Jessica R. Dietch and Daniel J. Taylor
Journal of Clinical Sleep Medicine, Published Online: March 5, 2021; https://doi.org/10.5664/jcsm.9200
Stanford University School of Medicine
University of Arizona

**Self-administered electroencephalography based sleep assessment: compliance and perceived feasibility in children and adults**
Jesper Pedersen, Martin Gillies Banke Rasmussen, Line Grønholt Olesen, Peter Lund Kristensen, and Anders Grøntved
Sleep Science Practice 5, 8 (2021); https://doi.org/10.1186/s41606-021-00059-1
University of Southern Denmark

**Associations between daily affect and sleep vary by sleep assessment type: What can ambulatory EEG add to the picture?**
Brett A. Messman, Danica C. Slavish, Jessica R. Dietch, Brooke N. Jenkins, Maiaten Brink and Daniel J. Taylor
Sleep Health, Available online 14 January 2021; https://doi.org/10.1016/j.sleh.2020.11.009
University of North Texas
Chapman University
Stanford University
Performance of an ambulatory electroencephalogram sleep monitor in patients with psychiatric disorders
Seiko Miyata, Kunihiro Iwamoto, Masahiro Banno, Junichi Eguchi, Satoshi Kaneko, Akiko Noda, Norio Ozaki
Journal of Sleep Research, 28 December 2020; https://doi.org/10.1111/jsr.13273; 2020
Nagoya University
Chubu University
The KAITEKI Institute - think tank and global research institute of Mitsubishi Chemical Holdings Corporation

Feasibility of Self-Administered Electroencephalography-Based Sleep Assessment in Children and Adults: Data From The SCREENS Pilot Trial
Jesper Pedersen, Martin Gillies Banke Rasmussen, Line Grønholt Olesen, Peter Lund Kristensen and Anders Grøntved
Sleep Science and Practice, Under Review, Oct 2020
University of Southern Denmark

Ambulatory EEG-measured sleep associated with attention-deficit/hyperactivity disorder symptom severity among adolescents
J. Lunsford-Avery; S. Kollins; C. Keller; M. Engelhard
Journal of Sleep Research, Volume 29, Issue S1
Special Issue: Abstracts of the 25th Congress of the European Sleep Research Society, 22-24 September 2020
Duke University Medical Center

Deep learning for automated sleep staging using instantaneous heart rate
Niranjan Sridhar, Ali Shoeb1, Philip Stephens, Alaa Kharbouch, David Ben Shimol, Joshua Burkart, Atiyeh Ghoreyshi and Lance Myers
Verily Life Sciences (aka Google Life Sciences)

Wearable Sleep-EEG Device Use in Adolescents: A Feasibility and Acceptability Study
Jessica Ruth Lunsford-Avery; Casey Keller; Scott H Kollins; Andrew D Krystal; Leah Jackson; and Matthew Morrow Engelhard
JMIR mHealth and uHealth, Accepted August 2020
Duke University

The Cycle of Daily Stress and Sleep: Sleep Measurement Matters
Danica C Slavish, PhD, Justin Asbee, MA, Kirti Veeramachaneni, Brett A Messman, BA, Bella Scott, BA, Nancy L Sin, PhD, Daniel J Taylor, PhD, Jessica R Dietch, PhD
Annals of Behavioral Medicine, kaaa053, https://doi.org/10.1093/abm/kaaa053; August 2020
University of North Texas
University of Arizona
Stanford University School of Medicine

Machine Learning Derived-Interpretative Algorithm Better Differentiates Sleep And Wake Epochs And Estimates Sleep Parameters From Wrist Actigraphy Data
Haghayegh, S. Khoshnevis, S. Smolensky, M. H. Diller, K. R. Castriotta, R. J.
Associated Professional Sleep Societies (APSS), 2020, 34rd Annual Meeting, Sleep (43)
The University of Texas at Austin
University of Southern California
The Cycle of Daily Stress And Sleep: Sleep Measurement Matters
University of North Texas
Louis University
University of British Columbia
The University of Arizona
Palo Alto Veterans Affairs Health Care System

Sleep Monitoring With A Single Channel EEG Recorder in Patients with Psychiatric Disorders
Nagoya University
Chubu University

Characteristics of Overnight Blood Glucose Levels Are Related to Sleep Quality in People with Type 1 Diabetes
Rachel Brandt, Minsun Park, Laurie T. Quinn, Minseung Chu, Youngkwan Song, Britt M. Burton-Freeman and Ali Cinar
Diabetes, American Diabetes Association, 2020 Jun; 69(Supplement 1): 776-p
Illinois Institute of Technology

Technical Performance Verification of Wearable and Home Sensor Devices Monitoring Sleep: Best Practices
Friso Postma, Zhanna Rozenberg, Nikolai Shokhirev, Kevin Urban, Udi Rubin, Daniela Brunner
Biological Psychiatry 87(9):S343, May 2020
Cohen Veterans Bioscience

Genetics, Sweet Preference, and Short Sleep: Important Players in Food Choice?
Robin M. Tucker
2020 Super Summit Sweetener Systems Conference, March 24, 2020
Michigan State University

Short-term efficacy of reducing screen media use on physical activity, sleep, and physiological stress in families with children aged 4–14: study protocol for the SCREENS randomized controlled trial
Martin Gillies Banke Rasmussen, Jesper Pedersen, Line Grønholt Olesen, Søren Brage, Heidi Klakk, Peter Lund Kristensen, Jan Christian Brønd and Anders Grøntved
BMC Public Health 20:380, 2020
University of South Denmark

Multiple Dimensions of Sweet Taste Perception Altered after Sleep Curtailment
Edward J. Szczygiel, Sungeun Cho and Robin M. Tucker
Nutrients, 11(9); https://doi.org/10.3390/nu11092015; 2019
Michigan State University

The Effect of Sleep Curtailment on Hedonic Responses to Liquid and Solid Food
Edward J. Szczygiel, Sungeun Cho and Robin M. Tucker
Foods, 8(10), 2019
Michigan State University
Performance assessment of new-generation Fitbit technology in deriving sleep parameters and stages
Shahab Haghayegh, Sepideh Khoshnevis, Michael H. Smolensky, Kenneth R. Diller & Richard J. Castriotta
Chronobiology International; https://doi.org/10.1080/07420528.2019.1682006; 2019
University of Texas at Austin

When Sleep-Dependent Gist Extraction Goes Awry: False Composite Memories are Facilitated by Slow Wave Sleep
Itamar Lerner, Tony P. Kerbaj and Mark A. Gluck
The 41st Annual Meeting of the Cognitive Science Society, page 2119-2124, Montreal, Canada, July 27th, 2019
Rutgers University

Computational Sleep Behavior Analysis: A Survey
Sarah Fallmann and Liming Chen
IEEE Access, Vol 7, page 142421-142440, 2019
De Montfort University and Ulster University

Performance comparison of different interpretative algorithms utilized to derive sleep parameters from wrist actigraphy data
Shahab Haghayegh, Sepideh Khoshnevis, Michael H. Smolensky, Kenneth R. Diller & Richard J. Castriotta
Chronobiology International; https://doi.org/10.1080/07420528.2019.1679826; 2019
University of Texas at Austin

Anesthesiology Resident Night Float Duty Alters Sleep Patterns: An Observational Study
Lauren Dunn, Amanda Kleiman, Katherine Forkin, Allison Bechtel, Stephen Collins, Jennifer Potter, Christopher Kaperak, Siny Tsang, Julie Huffmyer and Edward Nemergut
Anesthesiology 131(2):401–409, August 2019
University of Virginia

Anesthesiology Resident Night Float Duty Alters Sleep Patterns: An Observational Study
Anesthesiology, Newly Published on May 28, 2019; https://doi.org/10.1097/aln.0000000000002806; 2019
University of Virginia & Washington State University

Accuracy of PurePulse photoplethysmography technology of Fitbit Charge 2 for assessment of heart rate during sleep
Shahab Haghayegh, Sepideh Khoshnevis, Michael H. Smolensky & Kenneth R. Diller
Chronobiology International, Published online: 16 Apr 2019
University of Texas at Austin

Actigraphic sleep tracking and wearables: Historical context scientific applications and guidelines, limitations, and considerations for commercial sleep devices
Michael Grandner and Mary Rosenberger
Sleep and Health, P.147, 2019
University of Arizona
Stanford University

Differences In Sleep Duration And Quality Between Weekdays And Weekends In Japanese Adults
Seiko Miyata Kunihiro Iwamoto Motoo Ando Yuki Ito Aiko Noda Norio Ozaki
Associated Professional Sleep Societies (APSS), 2019, 33rd Annual Meeting, Sleep (42)
Nagoya University Graduate School of Medicine
Associations between chemosensory function, sweet taste preference, and the previous night’s sleep in non-obese males
Edward J. Szczygiel, Sungeun Cho, Margaret K. Snyder, Robin M. Tucker
Food Quality and Preference, Volume 75, July 2019, Pages 105-112
Michigan State University

Do Not Disturb, Shadyside Hospital Foundation grants lead to first-ever "sleep protection" breakthrough
D'Antonio I. and Pituch D.W.
The VOICE of UPMC Shadyside Winter 2017 (available online 2019)
University of Pittsburgh Medical Center (UPMC)

Validity of survey measures of sleep duration, efficiency, and timing
Dietch, J.R. and Taylor, D.J.
Measurement and Analysis of Sleep and Circadian Dimensions Symposium
Associated Professional Sleep Societies (APSS), 2019, 33rd Annual Meeting, Sleep (42)
University of North Texas

Increased Hunger, Food Cravings, Food Reward, and Portion Size Selection after Sleep Curtailment in Women Without Obesity
Chia-Lun Yang, Jerry Schnepp and Robin M. Tucker
Nutrients Vol. 11(3), 663, 2019
Michigan State University
Bowling Green State University

Preliminary Results: Sleep Curtailment Results in Increased Portion Size Selection
Chia-Lun, Yang, Christina Cobetto, Yusi Hu, Jerry Schnepp, and Robin Tucker
Food & Nutrition Conference & Expo (FNCE), Washington D.C., Oct. 20-23, 2018
Michigan State University
Bowling Green State University

精神疾患を対象とした新規睡眠評価機器（Zmachine）のPSGを用いた妥当性検証
Validation Using the PSG of New Sleep Evaluation Device Intended for Mental Disease (Zmachine)
Iwamoto, Kunihiro
Japanese Society of Sleep Research 43rd Annual Meeting, Sapporo, Japan, July 2018
Nagoya University

A Critical Review of Consumer Wearables, Mobile Applications and Equipment for Providing Biofeedback Monitoring Stress and Sleep in Physically Active Populations
Peake, JM, Kerr, G, and Sullivan JP
Frontiers in Physiology, June 2018 | Volume 9 | Article 743
Queensland University

Effect of Night Float on Anesthesiology Resident Sleep Patterns: An Observational Study
Dunn L., Kleiman A., Forkin K., Quigg M., Bechtel A., Huffmyer J. and Nemergut E.
International Anesthesia Research Society (IARS), 2018 Annual Meeting
University of Virginia

Daily Covariation Of Stress and EEG-Determined Sleep
Veeramachaneni K, Dietch JR, Slavish DC, Taylor DJ
Associated Professional Sleep Societies (APSS), 2018, 32st Annual Meeting, Sleep (41)
University of North Texas
Daily Positive Affect Predicts EEG-Determined REM Duration
Hale BS, Messman B, Brown A, Banzuelo H, Nguyen T, Slavish D, Taylor DJ, Dietch JR
Associated Professional Sleep Societies (APSS), 2018, 32st Annual Meeting, Sleep (41)
University of North Texas

Characterization of the Relationships Between Sleep Duration, Quality, Architecture, and Chemosensory Function in Nonobese Females
Szczygiel, EJ., Cho, S., Tucker, RM.
Chemical Senses, 2018
Advanced Access Publication Date: 7 March 2018
Michigan State University

Sleep Devices: Wearables and Nearables, Informational and Intervenitional, Consumer and Clinical
Bianchi, MT.
Metabolism: clinical and experimental, 2018
Advanced Access Publication Date: 8 December 2017
Harvard Medical School/Massachusetts General Hospital

Landscape Analysis of Biometric Monitoring Devices (BMDs) Utilized in Assessing Cognition, Sleep and Mobility in Alzheimer's Disease and Other Age-Related Neurological Diseases
Kern V., Rhodes J., Karlin D., Fitzter-Attas C., Ropacki M., et al
Alzheimer's Association International Conference (AAIC), 2017
Critical Path Institute, Biogen, Pfizer, CHDI Foundation, Loma Linda University, et al

Where is your (mind)fulness? It matters for sleep.
Association for Psychological Science (APS), 2017, 29th Annual Meeting
Brown University

Estimation of Sleep Stages using Cardiac and Accelerometer Data from a Wrist-Worn Device
Beattie, Z., Pantelopoulos, A., Ghoreyshi, A., Oyang, Y., Statan, A., Heneghan, C.
Associated Professional Sleep Societies (APSS), 2017, 31st Annual Meeting, Sleep (40)
Fitbit, Inc.

Advances In the Management of Chronic Insomnia
Kay-Stacey M. and Attarian H.
British Medical Journal (BMJ), 2016;353:i2123
Northwestern University

Current research impacting long-duration space flight sleep and fatigue
Moomaw, R.
American Osteopathic Association (AOA), 2016, 122nd Annual Meeting
NASA - Johnson Space Center

Twenty-four Hours of Sleep, Sedentary Behavior, and Physical Activity with Nine Wearable Devices
Rosenberger, ME.1, Buman, MP.2, Haskell, WL.1, McConnell, MV.1, Carstensen, LL.3
1Stanford University
2Arizona State University
Evaluation of an Automated Single-Channel Sleep Staging Algorithm  
Wang, Y., Loparo, K., Kelly, M., Kaplan, R.  

Performance Evaluation of an Automated Single-Channel Sleep Staging Algorithm  
Wang, Y., Loparo, K., Kaplan, R.  
Associated Professional Sleep Societies (APSS), 2015, 29th Annual Meeting, Sleep (38)

A Pilot Study: Delirium in the Intensive Care Unit: Utilizing the Zmachine Sleep Monitor for Assessment  
Whitcomb, J. J., Edwards, S., Ethridge, E., Fogle, S.  
UCLA Department of Nursing, 14th Annual Research and Evidence-Based Practice Conference, 2015  
Also appears on HEHD/SOE Research Forum, Clemson University  
Clemson University

Performance Evaluation of an Automated Single Channel Sleep-Wake Detection Algorithm  
Kaplan, R., Wang, Y., Loparo, K., Kelly, M., Bootzin, R.  

Classification of Stage-1 in a Single Channel Wake-Sleep Detection System  
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.  
Associated Professional Sleep Societies (APSS), 2009, 23rd Annual Meeting, Sleep (32)

A Single Channel Wake-Sleep Detection System  
Wang, Y., Kaplan, R. F., Bootzin, R. R., and Loparo, K. A.  
Associated Professional Sleep Societies (APSS), 2008, 22nd Annual Meeting, Sleep (31)

Evaluation of an automated system for in-home behavioral treatment of chronic insomnia: Part III  
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.  
Associated Professional Sleep Societies (APSS), 2007, 21st Annual Meeting, Sleep (30)

Evaluation of an automated system for in-home behavioral treatment of chronic insomnia: Part II  
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.  
Associated Professional Sleep Societies (APSS), 2006, 20th Annual Meeting, Sleep (29)

Evaluation of an automated system for in-home behavioral treatment of chronic insomnia: Part I  
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.  
Associated Professional Sleep Societies (APSS), 2006, 20th Annual Meeting, Sleep (29)

Very high frequency energy (Kappa) in human surface EEG: Correlation with behavioral state  
Richardson, G.S., Kaplan, R.F., Loparo, K.A., Johnson, S.E., Roth, T.  
Associated Professional Sleep Societies (APSS), 2000, 14th Annual Meeting, Sleep (23)

Enhancing fatigue assessment in aviation settings: Correlation of EEG-based DDAS with performance  
Kaplan, R.F., Loparo, K. A., Nesthus, T.E., Schroeder, D.J.  
Aviation, Space, and Environmental Medicine, 1998, 69(3)

Four-choice serial reaction time and visual search performance during 34 hr of sleep loss  
Aviation, Space, and Environmental Medicine, 1998, 69(3)
Subjective sleepiness ratings and body temperature during 34 hours of sleep deprivation
Schroeder, D.J., Nesthus, T.E., Scarborough, A., Thompson, J., Kaplan, R.F., Loparo, K.A.
Aviation, Space, and Environmental Medicine, 1998, 69(3)