List of Publications

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

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

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

Differences In Sleep Duration And Quality Between Weekdays And Weekends In Japanese Adults
Associated Professional Sleep Societies (APSS), 2019, 33rd Annual Meeting, Sleep (42)
Seiko Miyata Kunihiro Iwamoto Motoo Ando Yuki Ito Aiko Noda Norio Ozaki
Nagoya University Graduate School of Medicine

Associations between chemosensory function, sweet taste preference, and the previous night’s sleep in non-obese males
Food Quality and Preference, Volume 75, July 2019, Pages 105-112
Edward J. Szczygiel, Sungeun Cho, Margaret K. Snyder, Robin M. Tucker
Michigan State University

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

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

Increased Hunger, Food Cravings, Food Reward, and Portion Size Selection after Sleep Curtailment in Women Without Obesity
Nutrients Vol. 11(3), 663, 2019
Chia-Lun Yang , Jerry Schnepp and Robin M. Tucker
Michigan State University
Bowling Green State University
Preliminary Results: Sleep Curtailment Results in Increased Portion Size Selection
Food & Nutrition Conference & Expo (FNCE), Washington D.C., Oct. 20-23, 2018
Chia-Lun, Yang, Christina Cobetto, Yusi Hu, Jerry Schnepp, and Robin Tucker
Michigan State University
Bowling Green State University

精神性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)
Japanese Society of Sleep Research 43rd Annual Meeting, Sapporo, Japan, July 2018
Iwamoto, Kunihiro
Nagoya University

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

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

Daily Covariation Of Stress and EEG-Determined Sleep
Associated Professional Sleep Societies (APSS), 2018, 32st Annual Meeting, Sleep (41)
Veeramachaneni K, Dietch JR, Slavish DC, Taylor DJ
University of North Texas

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

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

Sleep Devices: Wearables and Nearables, Informational and Interventional, Consumer and Clinical
Metabolism: clinical and experimental, 2018
Advanced Access Publication Date: 8 December 2017
Bianchi, MT.
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
Alzheimer's Association International Conference (AAIC), 2017
Kern V., Rhodes J., Karlin D., Fitzer-Attas C., Ropacki M., et al
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
Associated Professional Sleep Societies (APSS), 2017, 31st Annual Meeting, Sleep (40)
Beattie, Z., Pantelopoulos, A., Ghoreyshi, A., Oyang, Y., Statan, A., Heneghan, C.
Fitbit, Inc.

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

Current research impacting long-duration space flight sleep and fatigue
American Osteopathic Association (AOA), 2016, 122nd Annual Meeting
Moomaw, R.
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.1
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
Associated Professional Sleep Societies (APSS), 2015, 29th Annual Meeting, Sleep (38)
Wang, Y., Loparo, K., Kaplan, R.

A Pilot Study: Delirium in the Intensive Care Unit: Utilizing the Zmachine Sleep Monitor for Assessment
UCLA Department of Nursing, 14th Annual Research and Evidence-Based Practice Conference, 2015
Also appears on HEHD/SOE Research Forum, Clemson University
Whitcomb, J. J., Edwards, S., Ethridge, E., Fogle, S.
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
Associated Professional Sleep Societies (APSS), 2009, 23rd Annual Meeting, Sleep (32)
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.

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

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

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

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

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

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

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
Aviation, Space, and Environmental Medicine, 1998, 69(3)
Schroeder, D.J., Nesthus, T.E., Scarborough, A., Thompson, J., Kaplan, R.F., Loparo, K.A.