



## Clete A. Kushida, MD, PhD

Professor of Psychiatry and Behavioral Sciences (Sleep Medicine)

Psychiatry and Behavioral Sciences - Sleep Medicine

### CLINICAL OFFICE (PRIMARY)

- **Stanford Sleep Medicine Center**

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### Bio

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#### BIO

Dr. Clete A. Kushida is a neurologist who specializes in the diagnosis and management of sleep related breathing disorders (e.g., obstructive sleep apnea), sleep-related movement disorders (e.g., restless legs syndrome), and parasomnias (e.g., sleepwalking, REM sleep behavior disorder). He is a neurologist, a Professor in the Department of Psychiatry and Behavioral Sciences at Stanford; Associate Chair, Division Chief, and Medical Director of Stanford Sleep Medicine; and Director of the Stanford Center for Human Sleep Research. He is the inaugural President of the World Sleep Society, past President of the World Sleep Federation, past President of the American Academy of Sleep Medicine, and founding President of the California Sleep Society. Dr. Kushida has conducted basic and clinical sleep research since 1977, served as Principal Investigator for numerous large federally and industry sponsored studies, and his research interests include the anatomic and physiologic changes associated with sleep apnea, the management of restless legs syndrome, and countermeasures for sleep loss. He has authored or edited over 300 publications including six books, and serves as editor-in-chief of the journal *Sleep Science and Practice* as well as the largest publication on the field of sleep to date, the *Encyclopedia of Sleep and Circadian Rhythms* (2nd edition, 6 volumes, 454 chapters, 827 authors, 3,835 pages).

#### CLINICAL FOCUS

- Sleep Medicine
- Sleep Wake Disorders
- Neurology

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Psychiatry and Behavioral Sciences - Sleep Medicine
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

#### ADMINISTRATIVE APPOINTMENTS

- Associate Chair-Sleep Medicine, Department of Psychiatry and Behavioral Sciences, (2020- present)

- Division Chief, Stanford Sleep Medicine, (2017- present)
- Medical Director, Stanford Sleep Medicine, (2010- present)
- Director, Stanford University Center for Human Sleep Research, (1996- present)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Editor-in-Chief, Sleep Science and Practice Journal (2016 - present)
- Founding/Inaugural President, World Sleep Society (2016 - 2018)
- Medical Advisory Board, Restless Legs Syndrome Foundation (2014 - 2016)
- Chair, Research Committee, American Sleep Medicine Foundation (2013 - 2016)
- President, World Sleep Federation (2011 - 2016)
- President, Associated Professional Sleep Societies Board of Directors (2010 - 2011)
- President, American Academy of Sleep Medicine (2009 - 2010)
- Founding/Inaugural President, California Sleep Society (2008 - 2010)
- Board of Directors, American Academy of Sleep Medicine (2005 - 2011)
- Chair, Standards of Practice Committee, American Academy of Sleep Medicine (2003 - 2005)
- Board of Directors, American Board of Sleep Medicine (2000 - 2006)

## **PROFESSIONAL EDUCATION**

- Fellowship, Stanford University , Sleep Medicine (1996)
- Residency, University of California San Diego , Neurology (1994)
- Internship, University of Hawaii , Internal Medicine (1991)
- M.D., Univ of Chicago , Medicine (1990)
- Ph.D., Univ of Chicago , Neurosciences/Biopsychology (1986)
- M.S., Stanford University , Biological Sciences (1982)
- B.A.S., Stanford University , Biological Sciences/Psychology (1981)

## **COMMUNITY AND INTERNATIONAL WORK**

- APPLS - Apnea Positive-Pressure Long-Term Efficacy Study, Stanford Univ; Harvard Univ; Univ of Arizona; St. Luke's Hospital, MO; St. Mary's Hospital, WA

## **LINKS**

- Division of Stanford Sleep Medicine: <http://med.stanford.edu/sleepdivision.html>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

Dr. Kushida is a neurologist and sleep specialist who directs several NIH- and industry-sponsored research studies, focused on topics such as the physical features and neurocognitive changes associated with the obstructive sleep apnea syndrome, the epidemiology and treatment of restless legs syndrome/periodic limb movement disorder, primary care sleep education and training, and countermeasures for sleep loss.

### **CLINICAL TRIALS**

- A Study of the Safety and Effectiveness of ADX-N05 for Excessive Daytime Sleepiness in Subjects With Narcolepsy, Recruiting
- Adaptive Neurostimulation to Restore Sleep in Parkinson's Disease, Recruiting
- Study to Evaluate the Pharmacokinetics, Pharmacodynamics, and Safety of Armodafinil in Children and Adolescents With Excessive Sleepiness Associated With Narcolepsy, Recruiting

- Apnea Positive Pressure Long-Term Efficacy Study, Not Recruiting
- Brief Behavioral Intervention for Insomnia During Chemotherapy, Not Recruiting
- Comparative Outcomes Management With Electronic Data Technology (COMET) Study, Not Recruiting
- PMP-300E (Smart Watch): Portable Monitoring Device Study, Not Recruiting
- Positive Pressure Treatment of Obstructive Sleep Apnea, Not Recruiting
- Randomized Study of Provent Versus Sham Device to Treat Obstructive Sleep Apnea, Not Recruiting
- Study of the Usability and Efficacy of a New Pediatric CPAP Mask, Not Recruiting
- Study to Evaluate Armodafinil Treatment in Improving Prefrontal Cortical Activation and Working Memory Performance, Not Recruiting
- Sustainable Methods, Algorithms, and Research Tools for Delivering Optimal Care Study, Not Recruiting
- Treatments for Insomnia: Mediators, Moderators and Quality of Life, Not Recruiting

## Publications

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### PUBLICATIONS

- **Cataplexy response with extended-release once-nightly sodium oxybate: Post hoc responder analyses from the phase 3 REST-ON clinical trial.** *Sleep medicine: X*  
Thorpy, M. J., Kushida, C. A., Bogan, R., Ajayi, A. O., Corser, B. C., Gudeman, J.  
2024; 7: 100109
- **Sleep macro-architecture in patients with Parkinson's disease does not change during the first night of neurostimulation in a pilot study.** *Journal of clinical sleep medicine : JCSM : official publication of the American Academy of Sleep Medicine*  
Das, R., Gliske, S. V., West, L. C., Summers, M. O., Tang, S., Hirt, L., Maroni, D., Halpern, C. H., Thompson, J. A., Kushida, C. A., Abosch, A.  
2024
- **Endorsement of "European Respiratory Society guideline on non-CPAP therapies for obstructive sleep apnoea" by World Sleep Society.** *Sleep medicine*  
Jacobowitz, O., Afifi, L., Alkan, U., Penzel, T., Poyares, D., Kushida, C.  
2023; 113: 293-298
- **Once-nightly sodium oxybate (FT218) improved symptoms of disrupted nighttime sleep in people with narcolepsy: a plain language summary.** *Journal of comparative effectiveness research*  
Roth, T., Thorpy, M. J., Kushida, C. A., Horsnell, M., Gudeman, J.  
2023: CER
- **Accuracy of 11 Wearable, Nearable, and Airable Consumer Sleep Trackers: Prospective Multicenter Validation Study.** *JMIR mHealth and uHealth*  
Lee, T., Cho, Y., Cha, K. S., Jung, J., Cho, J., Kim, H., Kim, D., Hong, J., Lee, D., Keum, M., Kushida, C. A., Yoon, I., Kim, et al  
2023; 11: e50983
- **Reply to Singh, G.D. Comment on "Dao et al. Retrospective Analysis of Real-World Data for the Treatment of Obstructive Sleep Apnea with Slow Maxillary Expansion Using a Unique Expansion Dental Appliance (DNA).Pathophysiology2023,30, 199-208".** *Pathophysiology : the official journal of the International Society for Pathophysiology*  
Dao, N., Cozean, C., Chernyshev, O., Kushida, C., Greenburg, J., Alexander, J. S.  
2023; 30 (4): 482-483
- **An Approach for Determining the Reliability of Manual and Digital Scoring of Sleep Stages.** *Sleep*  
Gerardy, B., Kuna, S. T., Pack, A., Kushida, C. A., Walsh, J. K., Staley, B., Pien, G. W., Younes, M.  
2023
- **Dose Titration and Tolerability of Once-Nightly Sodium Oxybate: Interim Data from RESTORE**  
Roy, A., Abaluck, B., Stern, T., Kushida, C. A., Dubow, J., Gudeman, J.  
WILEY.2023: S266-S267
- **Proteomic insights into the pathophysiology of periodic limb movements and restless legs syndrome.** *Sleep health*  
Cederberg, K. L., Peris Sempere, V., Lin, L., Zhang, J., Leary, E. B., Moore, H., Morse, A. M., Blackman, A., Schweitzer, P. K., Kotagal, S., Bogan, R., Kushida, C. A., STAGES cohort investigator group, et al

2023

- **Partial endorsement of: "Video-polysomnography procedures for diagnosis of rapid eye movement sleep behavior disorder (RBD) and the identification of its prodromal stages: Guidelines from the International RBD Study Group" by the World Sleep Society.** *Sleep medicine*  
Schenck, C. H., Cochen de Cock, V., Lewis, S. J., Tachibana, N., Kushida, C., Ferri, R.  
2023; 110: 137-145
- **In response to the Letter to the Editor regarding "A roadmap of craniofacial growth modification for children with sleep-disordered breathing: a multidisciplinary proposal".** *Sleep*  
Yoon, A., Gozal, D., Pelayo, R., Kushida, C., Liu, S., Hong, C.  
2023
- **Letter in reply: a letter to the editor commenting on the recent publication by AY Avidan and CA Kushida.** *Future cardiology*  
Avidan, A. Y., Kushida, C. A.  
2023
- **Prediction of Sleep Stages Via Deep Learning Using Smartphone Audio Recordings in Home Environments: Model Development and Validation.** *Journal of medical Internet research*  
Tran, H. H., Hong, J. K., Jang, H., Jung, J., Kim, J., Hong, J., Lee, M., Kim, J. W., Kushida, C. A., Lee, D., Kim, D., Yoon, I. Y.  
2023; 25: e46216
- **Clinician Preferences for Oxybate Treatment for Narcolepsy: Survey and Discrete Choice Experiment.** *Advances in therapy*  
Morse, A. M., Krahn, L., Flygare, J., Kushida, C., Thorpy, M. J., Athavale, A., Gudeman, J.  
2023
- **Evaluation of consensus sleep stage scoring of dysregulated sleep in Parkinson's disease.** *Sleep medicine*  
West, L. C., Summers, M., Tang, S., Hirt, L., Halpern, C. H., Maroni, D., Das, R., Gliske, S. V., Abosch, A., Kushida, C. A., Thompson, J. A.  
2023; 107: 236-242
- **Association of Backscattered Ultrasonographic Imaging of the Tongue With Severity of Obstructive Sleep Apnea in Adults.** *JAMA otolaryngology-- head & neck surgery*  
Liu, S. Y., Bosschieter, P. F., Abdelwahab, M., Chao, P., Chen, A., Kushida, C.  
2023
- **Retrospective Analysis of Real-World Data for the Treatment of Obstructive Sleep Apnea with Slow Maxillary Expansion Using a Unique Expansion Dental Appliance (DNA).** *Pathophysiology : the official journal of the International Society for Pathophysiology*  
Dao, N., Cozean, C., Chernyshev, O., Kushida, C., Greenburg, J., Alexander, J. S.  
2023; 30 (2): 199-208
- **Improvements in Immediate and Delayed Memory With Insomnia Therapy and Their Associations With SWA in Older Adults**  
Ahmadi, M., Krause, A. J., O'Hora, K. P., Hernandez, B., Lazzaroni, L., Zeitzer, J. M., Friedman, L. F., Posner, D., Kushida, C. A., Yesavage, J. A., Saletin, J., Goldstein-Piekarski, A.  
ELSEVIER SCIENCE INC.2023: S301
- **EFFECTS OF COGNITIVE BEHAVIORAL THERAPY FOR INSOMNIA (CBTI) ON DAYTIME COGNITIVE FUNCTIONING: A REPORT FROM THE AIR TRIAL**  
Edinger, J., Manber, R., Simmons, B., Johnson, R., Horberg, R., Depew, A., Abraibesh, A., Eldridge-Smith, E., Strand, M., Kushida, C., Tsai, S.  
OXFORD UNIV PRESS INC.2023
- **APPLICATION OF AASM CLINICAL SIGNIFICANCE THRESHOLDS TO ONCE-NIGHTLY SODIUM OXYBATE FOR IMPROVEMENT IN NARCOLEPSY SYMPTOMS**  
Roth, T., Thorpy, M., Kushida, C., Morse, A., Dubow, J., Gudeman, J., Dauvilliers, Y.  
OXFORD UNIV PRESS INC.2023: A252
- **CATAPLEXY RESPONSE WITH FT218 (ONCE-NIGHTLY SODIUM OXYBATE): POST HOC RESPONDER ANALYSIS FROM THE PHASE 3 REST-ON CLINICAL TRIAL**  
Thorpy, M., Kushida, C., Ajayi, A., Dubow, J., Gudeman, J.  
OXFORD UNIV PRESS INC.2023
- **THE EFFECT OF ACOUSTIC RESONANCE THERAPY ON CPAP ADHERENCE**  
Munafo, D., Gopi, P., Mohan, V., Hwang, P., Lin, B., Hekier, E., Lane, B., Guerrero, C., Dauphin, B., Kushida, C.

OXFORD UNIV PRESS INC.2023: A216

- **CPAP IMPROVES COGNITION IN BRAIN-HEALTHY MALES: SECONDARY ANALYSIS OF A RANDOMIZED TRIAL**  
Sun, H., Zinchuk, A., Locascio, J., Kushida, C., Thomas, R., Westover, M.  
OXFORD UNIV PRESS INC.2023
- **IMPACT OF POSITIVE AIRWAY PRESSURE THERAPY ON CLINICAL OUTCOMES IN OLDER VETERANS WITH COMORBID COPD AND OSA: AN UPDATE**  
Greig, D., Rastogi, R., Bansal, J., Mishra, P., Ahmed, A., Zhao, L., McConnell, A., Kushida, C., Axelrod, B., Shamim-Uzzaman, Q., Chowdhuri, S.  
OXFORD UNIV PRESS INC.2023: A236
- **EFFECT OF LEMBOREXANT ON SLEEP ARCHITECTURE IN SUBJECTS WITH COMORBID INSOMNIA AND MILD OBSTRUCTIVE SLEEP APNEA FROM A PH 3 TRIAL**  
Kushida, C., Zammit, G., Cheng, J., Kumar, D., Moline, M.  
OXFORD UNIV PRESS INC.2023: A157
- **IMPROVEMENT IN SLEEP LATENCY WITH FT218 (ONCE-NIGHTLY SODIUM OXYBATE): ANALYSIS FROM THE PHASE 3 REST-ON CLINICAL TRIAL**  
Thorpy, M., Shapiro, C., Kushida, C., Ohayon, M., Dubow, J., Gudeman, J.  
OXFORD UNIV PRESS INC.2023
- **FUNCTIONAL OUTCOMES OF SLEEP QUESTIONNAIRE IN A PHASE 2 STUDY OF MAZINDOL ER IN NARCOLEPSY**  
Bogan, R., Stern, T., Corser, B., Franco, J., Konofal, E., Apostol, G., Morse, A., Rosenberg, R., Thorpy, M., Kushida, C.  
OXFORD UNIV PRESS INC.2023: A260
- **DOSE TITRATION OF ONCE-NIGHTLY SODIUM OXYBATE: ANALYSIS OF INTERIM DATA FROM RESTORE**  
Roy, A., Abaluck, B., Stern, T., Kushida, C., Dubow, J., Gudeman, J.  
OXFORD UNIV PRESS INC.2023
- **LONG-TERM EFFICACY ON CATAPLEXY ATTACKS AND EXCESSIVE DAYTIME SLEEPINESS IN OPEN-LABEL EXTENSION STUDY (NLS-1022) OF MAZINDOL ER**  
Stern, T., Corser, B., Bogan, R., Franco, J., Konofal, E., Apostol, G., Rosenberg, R., Morse, A., Thorpy, M., Kushida, C.  
OXFORD UNIV PRESS INC.2023: A261
- **ADULTS WITH AND WITHOUT MILD COGNITIVE IMPAIRMENT SHOW SIMILAR TREATMENT ADHERENCE AND SLEEP IMPROVEMENT AFTER INSOMNIA THERAPY**  
Morehouse, A., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Goldstein-Piekarski, A.  
OXFORD UNIV PRESS INC.2023
- **A FOUR-WEEK RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PHASE 2 STUDY OF MAZINDOL ER IN THE TREATMENT OF NARCOLEPSY**  
Corser, B., Stern, T., Bogan, R., Franco, J., Apostol, G., Konofal, E., Morse, A., Rosenberg, R., Kushida, C., Thorpy, M.  
OXFORD UNIV PRESS INC.2023: A257
- **EFFICACY OF OBSTRUCTIVE SLEEP APNEA TREATMENT BY A UNIQUE ORAL APPLIANCE AND EFFECT OF CONCURRENT MYOFUNCTIONAL AND CPAP THERAPY**  
Lee-Heidenreich, D., Heckman, S., Kushida, C.  
OXFORD UNIV PRESS INC.2023
- **PSYCHOACTIVE SUBSTANCE USE AND SLEEP CHARACTERISTICS AMONG INDIVIDUALS WITH UNTREATED OBSTRUCTIVE SLEEP APNEA**  
Walker, A., Baldassarri, S., Chu, J., Deng, A., Xu, Z., Blohowiak, R., Byrne, S., Kushida, C., Yaggi, H., Zinchuk, A.  
OXFORD UNIV PRESS INC.2023: A213
- **NUMBER OF NIGHTS TO ACHIEVE HIGH SENSITIVITY/ SPECIFICITY FOR DETECTING OSA USING A LARGE US SAMPLE BY HOME UNDER-MATTRESS DEVICES**  
Kushida, C., Cotton-Clay, A., Fava, L., Easwar, V., Kinsolving, A., Kahn, P.  
OXFORD UNIV PRESS INC.2023
- **BACKSCATTERED ULTRASOUND IMAGING OF THE TONGUE CORRELATES WITH SEVERITY OF OBSTRUCTIVE SLEEP APNEA IN ADULTS**  
Bosschieter, P., Kushida, C., Liu, S.

OXFORD UNIV PRESS INC.2023: A200

- **CLINICIAN AND PATIENT GLOBAL IMPRESSION IN A PHASE 2 STUDY OF MAZINDOL (NLS-1021) IN ADULTS WITH NARCOLEPSY TYPE 1 AND TYPE 2**  
Bogan, R., Stern, T., Corser, B., Franco, J., Konofal, E., Apostol, G., Morse, A., Kushida, C., Thorpy, M., Rosenberg, R.  
OXFORD UNIV PRESS INC.2023: A254
- **Nicotine, alcohol, and caffeine use among individuals with untreated obstructive sleep apnea.** *Sleep & breathing = Schlaf & Atmung*  
Baldassarri, S. R., Chu, J., Deng, A., Xu, Z., Blohowiak, R. F., Byrne, S., Kushida, C., Yaggi, H. K., Zinchuk, A.  
2023
- **Sodium Oxybate in Treatment-Resistant REM Sleep Behavior Disorder.** *Sleep*  
During, E. H., Hernandez, B., Miglis, M. G., Sum-Ping, O., Hekmat, A., Cahuas, A., Ekkelmans, A., Yoshino, F., Mignot, E., Kushida, C. A.  
2023
- **A Roadmap of Craniofacial Growth Modification for Children with Sleep Disordered Breathing: A Multidisciplinary Proposal.** *Sleep*  
Yoon, A., Gozal, D., Kushida, C., Pelayo, R., Liu, S., Faldu, J., Hong, C.  
2023
- **Morning Chronotype Is Associated with Improved Adherence to Continuous Positive Airway Pressure among Individuals with Obstructive Sleep Apnea.** *Annals of the American Thoracic Society*  
Knauert, M. P., Adekolu, O., Xu, Z., Deng, A., Chu, J., Baldassarri, S., Kushida, C., Yaggi, H. K., Zinchuk, A.  
2023
- **The polysomnographic diagnosis of REM sleep behavior disorder: to change or not to change, that is the question.** *Sleep*  
Ferri, R., Lewis, S. J., De Cock, V. C., Tachibana, N., Kushida, C. A., Schenck, C. H.  
2022
- **PATIENT AND PROVIDER PREFERENCES FOR OXYBATE TREATMENT FOR NARCOLEPSY: A DISCRETE CHOICE EXPERIMENT**  
Morse, A. M., Krahn, L., Kushida, C., Thorpy, M., Flygare, J., Seiden, D., Athavale, A., Gudeman, J.  
ELSEVIER.2022: S163-S164
- **ULTRASOUND BACKSCATTER IMAGING FOR UPPER AIRWAY TISSUE COMPOSITION CORRELATES WITH OBSTRUCTIVE SLEEP APNEA SEVERITY**  
Liu, S. Y., Chen, A., Lee, Y., Chao, P., Kushida, C.  
ELSEVIER.2022: S286
- **PATIENT AND HEALTHCARE PROVIDER SURVEYS OF NARCOLEPSY DISEASE BURDEN AND OXYBATE TREATMENT EXPERIENCE**  
Morse, A. M., Krahn, L., Kushida, C., Thorpy, M., Flygare, J., Seiden, D., Athavale, A., Gudeman, J.  
ELSEVIER.2022: S163
- **EFFICACY OF ONCE-NIGHTLY SODIUM OXYBATE (ON-SXB; FT218) FOR EXCESSIVE DAYTIME SLEEPINESS AND CATAPLEXY: POST-HOC NUMBER NEEDED TO TREAT AND EFFECT SIZE ANALYSES FROM REST-ON**  
Thorpy, M., Roth, T., Kushida, C., Seiden, D., Dubow, J., Gudeman, J.  
ELSEVIER.2022: S157-S158
- **EFFICACY OF FT218, A ONCE-NIGHTLY SODIUM OXYBATE FORMULATION, IN PATIENTS WITH NARCOLEPSY: POST-HOC SENSITIVITY ANALYSES FROM THE REST-ON TRIAL**  
Kushida, C., Roth, T., Thorpy, M., Seiden, D., Dubow, J., Gudeman, J.  
ELSEVIER.2022: S156-S157
- **BIOMIMETIC ORAL APPLIANCE THERAPY (BOAT): NOVEL ORAL APPLIANCE TREATMENT FOR OBSTRUCTIVE SLEEP APNEA ADMINISTERED BY DENTISTS**  
Heckman, S., Kushida, C., Bennett, C. M., Cortes, M., Raio, D., Heit, T., Williams, L., Griffin, T. M.  
ELSEVIER.2022: S57
- **A COMPARISON OF ESTIMATED SLEEP-WAKE PATTERNS OBTAINED FROM A LARGE US SAMPLE BY HOME-BASED UNDER-MATTRESS MONITORING DEVICES BEFORE AND AFTER THE START OF THE COVID-19 PANDEMIC**  
Kushida, C., Cotton-Clay, A., Baron, S., Fava, L., Easwar, V., Kinsolving, A., Kahn, P., Koren, J., Rama, A., Ding, F.  
ELSEVIER.2022: S65-S66

- **IMPACT OF RAPID MAXILLARY EXPANSION ON ADENOTONSILLAR HYPERTROPHY IN CHILDREN**  
Yoon, A., Bockow, R., Abdelwahab, M., Vakili, A., Lovell, K., Ganguly, R., Liu, S., Kushida, C., Hong, C.  
ELSEVIER.2022: S59-S60
- **ESTIMATED SLEEP-WAKE PATTERNS OBTAINED FROM A LARGE US SAMPLE BY HOME-BASED UNDER-MATTRESS MONITORING DEVICES**  
Koren, J., Cotton-Clay, A., Easwar, V., Kinsolving, A., Kahn, P., Kushida, C. A.  
ELSEVIER.2022: S79
- **POLYSOMNOGRAPHIC VALIDATION OF AN UNDER-MATTRESS MONITORING DEVICE IN ESTIMATING SLEEP ARCHITECTURE AND OBSTRUCTIVE SLEEP APNEA IN ADULTS**  
Ding, F., Cotton-Clay, A., Fava, L., Easwar, V., Kinsolving, A., Kahn, P., Rama, A., Kushida, C.  
ELSEVIER.2022: S300
- **Efficacy of Once-Nightly Sodium Oxybate (ON-SXB; FT218) for Excessive Daytime Sleepiness and Cataplexy: Post-Hoc Number Needed to Treat and Effect Size Analyses from REST-ON**  
Thorpy, M. J., Roth, T., Kushida, C. A., Seiden, D., Dubow, J., Gudeman, J.  
WILEY.2022: S223
- **Differences in sleep apnea diagnosis by patient race and ethnicity**  
Lee-Heidenreich, D., Kushida, C.  
WILEY.2022
- **Sleep duration effect on heart and respiratory rate in a large US sample**  
Zitser, J., Cotton-Clay, A., Baron, S., Easwar, V., Kinsolving, A., Kahn, P., Kushida, C. A.  
WILEY.2022
- **Backscattered ultrasound imaging of the genioglossus muscle as a biomarker of OSA severity in normal BMI versus overweight-obese subjects**  
Liu, S. Y., Abdelwahab, M., Chao, P., Chen, A., Lee, Y., Kushida, C.  
WILEY.2022
- **Pediatric obstructive sleep apnea: a potential opportunity for a novel oral appliance therapy**  
Heckman, S., Kushida, C., Witmans, M.  
WILEY.2022
- **Evaluation of sleep-related respiratory events in a continuous large US Sample by home-based under-mattress monitoring devices**  
Kushida, C., Cotton-Clay, A., Baron, S., Fava, L., Easwar, V., Kinsolving, A., Kahn, P., Koren, J., Rama, A., Ding, F.  
WILEY.2022
- **Patient and Provider Preferences for Oxybate Treatment for Narcolepsy: A Discrete Choice Experiment**  
Morse, A., Krahn, L., Kushida, C. A., Thorpy, M. J., Flygare, J., Seiden, D., Athavale, A., Gudeman, J.  
WILEY.2022: S224
- **Stepped care management of insomnia co-occurring with sleep apnea: the AIR study protocol. *Trials***  
Eldridge-Smith, E. D., Manber, R., Tsai, S., Kushida, C., Simmons, B., Johnson, R., Horberg, R., Depew, A., Abraibesh, A., Simpson, N., Strand, M., Espie, C. A., Edinger, et al  
2022; 23 (1): 806
- **International consensus statement on obstructive sleep apnea. *International forum of allergy & rhinology***  
Chang, J. L., Goldberg, A. N., Alt, J. A., Ashbrook, L., Auckley, D., Ayappa, I., Bakhtiar, H., Barrera, J. E., Bartley, B. L., Billings, M. E., Boon, M. S., Bosschieter, P., Braverman, et al  
2022
- **The Link between Obstructive Sleep Apnea and Neurocognitive Impairment An Official American Thoracic Society Workshop Report *ANNALS OF THE AMERICAN THORACIC SOCIETY***  
Lal, C., Ayappa, I., Ayas, N., Beaudin, A. E., Hoyos, C., Kushida, C. A., Kaminska, M., Mullins, A., Naismith, S. L., Osorio, R. S., Phillips, C. L., Parekh, A., Stone, et al  
2022; 19 (8): 1245-1256
- **Proteomic Biomarkers of the Apnea Hypopnea Index and Obstructive Sleep Apnea: Insights into the Pathophysiology of Presence, Severity, and Treatment Response. *International journal of molecular sciences***

- Cederberg, K. L., Hanif, U., Peris Sempere, V., Hedou, J., Leary, E. B., Schneider, L. D., Lin, L., Zhang, J., Morse, A. M., Blackman, A., Schweitzer, P. K., Kotagal, S., Bogan, et al  
2022; 23 (14)
- **Once-nightly sodium oxybate (FT218) improved symptoms in people with narcolepsy: a plain language summary of publication** *FUTURE NEUROLOGY*  
Kushida, C. A., Thorpy, M. J., Flygare, J., Roy, A., Dubow, J., Seiden, D.  
2022
  - **Use of the Complete Airway Repositioning and Expansion (CARE) approach in 220 patients with Obstructive Sleep Apnea (OSA): A retrospective cohort study.** *Sleep medicine*  
Katz, D., DeMaria, S., Heckman, S., Lin, F., Kushida, C.  
2022; 99: 18-22
  - **Response to: Once-nightly sodium oxybate (FT218) in the treatment of narcolepsy: a letter to the editor commenting on the recent publication by C. Kushida et al.** *Sleep*  
Kushida, C. A., Roth, T., Shapiro, C. M., Roy, A., Rosenberg, R., Ajayi, A. O., Seiden, D., Gudeman, J.  
2022; 45 (6)
  - **THE IMPACT OF NON-PHARMACOLOGICAL INSOMNIA THERAPY ON MOOD AND SLEEP IN MORNING AND EVENING CHRONOTYPES IN OLDER ADULTS**  
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