

Stanford



Clete A. Kushida, MD, PhD

Professor of Psychiatry and Behavioral Sciences at the Stanford University Medical Center

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CLINICAL OFFICES

- **Stanford Sleep Medicine Center**

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Bio

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, Division Chief and Medical Director of Stanford Sleep Medicine, and Director of the Stanford Center for Human Sleep Research. He is founding 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 200 publications; he has also authored or edited six books, including serving as editor-in-chief of the largest publication on the field of sleep to date, the Encyclopedia of Sleep (4 volumes, 429 chapters, 748 authors).

CLINICAL FOCUS

- Neurology
- Sleep Disorders
- Sleep Medicine

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Psychiatry and Behavioral Sciences - Stanford Center for Sleep Sciences and Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

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

- Medical Director, Stanford Sleep Medicine, (2010- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Founding/Inaugural President, World Sleep Society (2016 - present)
- Editor-in-Chief, Sleep Science and Practice Journal (2016 - present)
- 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

- Medical Education: University of Chicago Medical Center Internal Medicine Residency (1990) IL
- Fellowship: Stanford University School of Medicine Registrar (1996) CA
- Board Certification: Sleep Medicine, American Board of Sleep Medicine (1996)
- Residency: UCSD Medical Center (1994) CA
- Internship: University of Hawaii Internal Medicine Residency Program (1991) HI
- 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

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
- 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

PUBLICATIONS

- **Associations Between Sleep Quality, Sleep Architecture and Sleep Disordered Breathing and Memory After Continuous Positive Airway Pressure in Patients with Obstructive Sleep Apnea in the Apnea Positive Pressure Long-term Efficacy Study (APPLES).** *Sleep science (Sao Paulo, Brazil)*
Quan, S. F., Budhiraja, R., Kushida, C. A.
; 11 (4): 231–38
- **Adherence to continuous positive airway pressure improves attention/psychomotor function and sleepiness: a bias-reduction method with further assessment of APPLES (vol 37, pg 130, 2017)** *SLEEP MEDICINE*
Holmes, T. H., Kushida, C. A.
2019; 57: 162
- **Positive Airway Pressure and Survival in Patients With Obstructive Sleep Apnea.** *JAMA otolaryngology-- head & neck surgery*
Kushida, C. A.
2019
- **Corrigendum to "Adherence to continuous positive airway pressure improves attention/psychomotor function and sleepiness: a bias-reduction method with further assessment of APPLES" [SleepMedicine 37 (2017) 130-134].** *Sleep medicine*
Holmes, T. H., Kushida, C. A.
2019
- **DEVELOPMENT OF COMPLEX DATA PLATFORM FOR THE STANFORD TECHNOLOGY ANALYTICS AND GENOMICS IN SLEEP (STAGES) STUDY**
Leary, E. B., Seeger-Zybok, R. K., Mazurek, M., Voronoy, A., Lawlor, B., Stephenson, C., Kushida, C., Mignot, E.
OXFORD UNIV PRESS INC.2019
- **IMPACT OF OSA AND COMORBID CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) ON CLINICAL AND NEUROCOGNITIVE OUTCOMES**
Bakkila, K., Axelrod, B., Kushida, C., Rastogi, R., Williams, R., Vogel, D., Chowdhuri, S.
OXFORD UNIV PRESS INC.2019
- **A RANDOMIZED CONTROLLED TRIAL OF CBT-I AND CPAP FOR COMORBID INSOMNIA AND OSA: INITIAL FINDINGS FROM THE MATRICS STUDY**
Ong, J. C., Crawford, M. R., Wyatt, J. K., Fogg, L. F., Turner, A. D., Dawson, S. C., Edinger, J. D., Kushida, C. A., Abbott, S. M., Malkani, R. G., Attarian, H. P., Zee, P. C.
OXFORD UNIV PRESS INC.2019
- **Non-steady State Modeling of the Ventilatory Depressant Effect of Remifentanyl in Awake Patients Experiencing Moderate-to-severe Obstructive Sleep Apnea** *ANESTHESIOLOGY*
Doufas, A. G., Shafer, S. L., Rashid, N., Kushida, C. A., Capasso, R.
2019; 130 (2): 213–26
- **Epidemiological and pathophysiological evidence supporting links between obstructive sleep apnoea and Type 2 diabetes mellitus** *SINGAPORE MEDICAL JOURNAL*
Lee, C., Kushida, C. A., Abisheganaden, J.

2019; 60 (2): 54–56

- **Neural network analysis of sleep stages enables efficient diagnosis of narcolepsy** *NATURE COMMUNICATIONS*
Stephansen, J. B., Olesen, A. N., Olsen, M., Ambati, A., Leary, E. B., Moore, H. E., Carrillo, O., Lin, L., Han, F., Yan, H., Sun, Y. L., Dauvilliers, Y., Scholz, et al
2018; 9
- **History and strategic initiatives of the new World Sleep Society** *SLEEP MEDICINE REVIEWS*
Kushida, C. A.
2018; 42: 229–30
- **Thirty-five alternatives to positive airway pressure therapy for obstructive sleep apnea: an overview of meta-analyses.** *Expert review of respiratory medicine*
Camacho, M., Chang, E. T., Neighbors, C. L., Noller, M. W., Mack, D., Capasso, R., Kushida, C. A.
2018; 12 (11): 919–29
- **Non-steady State Modeling of the Ventilatory Depressant Effect of Remifentanyl in Awake Patients Experiencing Moderate-to-severe Obstructive Sleep Apnea.** *Anesthesiology*
Doufas, A. G., Shafer, S. L., Rashid, N. H., Kushida, C. A., Capasso, R.
2018
- **Deception in clinical trials and its impact on recruitment and adherence of study participants** *CONTEMPORARY CLINICAL TRIALS*
Lee, C., Holmes, T., Neri, E., Kushida, C. A.
2018; 72: 146–57
- **Continuous Positive Airway Pressure Therapy on Nonalcoholic Fatty Liver Disease in Patients With Obstructive Sleep Apnea.** *Journal of clinical sleep medicine : JCSM : official publication of the American Academy of Sleep Medicine*
Kim, D., Ahmed, A., Kushida, C.
2018; 14 (8): 1315–22
- **EFFECTIVENESS OF A NASOPHARYNGEAL AIRWAY STENT FOR TREATMENT OF OBSTRUCTIVE SLEEP APNEA**
Kushida, C., Ding, F., Endo, T., Satoh, M.
OXFORD UNIV PRESS INC.2018: A207
- **THE EFFECTS OF CBT-I ON COGNITIVE FUNCTIONING IN INDIVIDUALS WITH INSOMNIA AND MILD COGNITIVE IMPAIRMENT**
Goldstein-Piekarski, A. N., O'Hora, K., Buchanan, A., Lee, C., Hernandez, B., Zeitzer, J. M., Friedman, L., Kushida, C., Yesavage, J.
OXFORD UNIV PRESS INC.2018: A154–A155
- **IMPROVING OUR UNDERSTANDING OF SLEEP BY GENERATING AND SHARING A LARGE SLEEP COHORT AND DATA ANALYTIC TOOLS**
Leary, E. B., Seeger-Zybok, R. K., Kushida, C., Mignot, E.
OXFORD UNIV PRESS INC.2018: A124
- **PATIENT ENGAGEMENT FOR SLEEP RESEARCH**
Seeger-Zybok, R. K., Leary, E. B., Kushida, C. A., Mignot, E.
OXFORD UNIV PRESS INC.2018: A390–A391
- **PATIENT AND PROVIDER PERSPECTIVES ON PATIENT-CENTERED OUTCOMES IN SLEEP APNEA**
Havens, C., Seixas, A., Jean-Louis, G., Buysse, D., Kushida, C., Mullington, J., Redline, S., Mehra, R., Stone, K., Amdur, A., Stepnowsky, C., Gooneratne, N., Rapoport, et al
OXFORD UNIV PRESS INC.2018: A191
- **Vitamin D and obstructive sleep apnea: a systematic review and meta-analysis** *SLEEP MEDICINE*
Neighbors, C. P., Noller, M. W., Song, S. A., Zaghi, S., Neighbors, J., Feldman, D., Kushida, C. A., Camacho, M.
2018; 43: 100–108
- **Neural network analysis of sleep stages enables efficient diagnosis of narcolepsy.** *Nature communications*
Stephansen, J. B., Olesen, A. N., Olsen, M., Ambati, A., Leary, E. B., Moore, H. E., Carrillo, O., Lin, L., Han, F., Yan, H., Sun, Y. L., Dauvilliers, Y., Scholz, et al
2018; 9 (1): 5229
- **Associations Between Sleep Quality, Sleep Architecture and Sleep Disordered Breathing and Memory After Continuous Positive Airway Pressure in Patients with Obstructive Sleep Apnea in the Apnea Positive Pressure Long-term Efficacy Study (APPLES)** *SLEEP SCIENCE*
Quan, S. F., Budhiraja, R., Kushida, C. A.

2018; 11 (4): 231–38

- **Reliability of the American Academy of Sleep Medicine Rules for Assessing Sleep Depth in Clinical Practice** *JOURNAL OF CLINICAL SLEEP MEDICINE*
Younes, M., Kuna, S. T., Pack, A. I., Walsh, J. K., Kushida, C. A., Staley, B., Pien, G. W.
2018; 14 (2): 205–13
- **Adjustment for Variable Adherence Under Hierarchical Structure: Instrumental Variable Modeling Through Compound Residual Inclusion** *MEDICAL CARE*
Holmes, T. H., Zulman, D. M., Kushida, C. A.
2017; 55 (12): E120–E130
- **Predictors of sleepiness in obstructive sleep apnoea at baseline and after 6 months of continuous positive airway pressure therapy** *EUROPEAN RESPIRATORY JOURNAL*
Budhiraja, R., Kushida, C. A., Nichols, D. A., Walsh, J. K., Simon, R. D., Gottlieb, D. J., Quan, S. F.
2017; 50 (5)
- **Adherence to continuous positive airway pressure improves attention/psychomotor function and sleepiness: a bias-reduction method with further assessment of APPLES** *SLEEP MEDICINE*
Holmes, T. H., Kushida, C. A.
2017; 37: 130–34
- **ROLE OF SPOUSE IN CPAP ADHERENCE**
Batoor-Anwar, S., Baldwin, C. M., Fass, S., Goodwin, J. L., Kushida, C. A., Nichols, D., Quan, S. F.
OXFORD UNIV PRESS INC.2017: A196–A197
- **IMPACT OF OSA AND OSA-COPD OVERLAP SYNDROME ON NEUROCOGNITIVE OUTCOMES**
Bakkila, K., Axelrod, B., Kushida, C., Rastogi, R., Vogel, D., Chowdhuri, S.
OXFORD UNIV PRESS INC.2017: A229
- **PREVALENCE AND PREDICTORS OF SUBJECTIVE AND OBJECTIVE SLEEPINESS IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA (OSA)**
Budhiraja, R., Kushida, C., Nichols, D., Walsh, J., Simon, R., Gottlieb, D., Quan, S.
OXFORD UNIV PRESS INC.2017: A169–A170
- **COGNITIVE AROUSAL IN OLDER INDIVIDUALS WITH INSOMNIA COMPLAINTS AROUSAL IN OLDER INDIVIDUALS WITH INSOMNIA COMPLAINTS**
Friedman, L., Hernandez, B., Buchanan, A., Dinh, M., Cooper, B., Hou, D., Posner, D., Kushida, C., Yesavage, J., Zeitzer, J. M.
OXFORD UNIV PRESS INC.2017: A129
- **RESIDUAL SLEEPINESS ON CONTINUOUS POSITIVE AIRWAY PRESSURE (CPAP) THERAPY IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA (OSA)**
Budhiraja, R., Kushida, C., Nichols, D., Walsh, J., Simon, R., Gottlieb, D., Quan, S.
OXFORD UNIV PRESS INC.2017: A190–A191
- **Impact of Continuous Positive Airway Pressure in Patients with Obstructive Sleep Apnea During Drug Induced Sleep Endoscopy.** *Clinical otolaryngology*
Torre, C., Liu, S. Y., Kushida, C. A., Nekhendzy, V., Huon, L., Capasso, R.
2017
- **Laser Assisted Uvulopalatoplasty (LAUP) for Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis.** *Sleep*
Camacho, M., Nesbitt, N. B., Lambert, E., Song, S. A., Chang, E. T., Yung Liu, S., Kushida, C. A., Zaghi, S.
2017
- **Effect of Pioglitazone on Cardiometabolic Risk in Patients With Obstructive Sleep Apnea.** *American journal of cardiology*
Liu, A., Abbasi, F., Kim, S. H., Ariel, D., Lamendola, C., Cardell, J., Xu, S., Patel, S., Tomasso, V., Mojaddidi, H., Grove, K., Tsao, P. S., Kushida, et al
2017
- **Tongue retaining devices for obstructive sleep apnea: A systematic review and meta-analysis.** *American journal of otolaryngology*
Chang, E. T., Fernandez-Salvador, C., Giambo, J., Nesbitt, B., Liu, S. Y., Capasso, R., Kushida, C. A., Camacho, M.
2017
- **Understanding Phenotypes of Obstructive Sleep Apnea: Applications in Anesthesia, Surgery, and Perioperative Medicine** *ANESTHESIA AND ANALGESIA*

- Subramani, Y., Singh, M., Wong, J., Kushida, C. A., Malhotra, A., Chung, F.
2017; 124 (1): 179-191
- **Predictors of sleepiness in obstructive sleep apnoea at baseline and after 6 months of continuous positive airway pressure therapy.** *The European respiratory journal*
Budhiraja, R., Kushida, C. A., Nichols, D. A., Walsh, J. K., Simon, R. D., Gottlieb, D. J., Quan, S. F.
2017; 50 (5)
 - **Impact Of Obstructive Sleep Apnea (osa) And Comorbid Chronic Obstructive Pulmonary Disease (COPD) On Clinical Outcomes**
Bakkila, K., Rastogi, R., Kushida, C., Fragoso, C., Chowdhuri, S.
AMER THORACIC SOC.2017
 - **Short Sleep Duration Is Associated With Abnormal Serum Aminotransferase Activities and Nonalcoholic Fatty Liver Disease.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*
Kim, D., Kim, H. J., Kushida, C. A., Heo, N. Y., Ahmed, A., Kim, W. R.
2017
 - **Impact of continuous positive airway pressure (CPAP) on quality of life in patients with obstructive sleep apnea (OSA)** *JOURNAL OF SLEEP RESEARCH*
Batool-Anwar, S., Goodwin, J. L., Kushida, C. A., Walsh, J. A., Simon, R. D., Nichols, D. A., Quan, S. F.
2016; 25 (6): 731-738
 - **Implementation of Sleep and Circadian Science: Recommendations from the Sleep Research Society and National Institutes of Health Workshop** *SLEEP*
Parthasarathy, S., Carskadon, M. A., Jean-Louis, G., Owens, J., Bramoweth, A., Combs, D., Hale, L., Harrison, E., Hart, C. N., Hasler, B. P., Honaker, S. M., Hertenstein, E., Kuna, et al
2016; 39 (12): 2061-2075
 - **Preoperative Treatment of Obstructive Sleep Apnea With Positive Airway Pressure is Associated With Decreased Incidence of Atrial Fibrillation After Cardiac Surgery.** *Journal of cardiothoracic and vascular anesthesia*
Wong, J. K., Mariano, E. R., Doufas, A. G., Olejniczak, M. J., Kushida, C. A.
2016
 - **A review of neurocognitive function and obstructive sleep apnea with or without daytime sleepiness.** *Sleep medicine*
Zhou, J., Camacho, M., Tang, X., Kushida, C. A.
2016; 23: 99-108
 - **Does enhanced insulin sensitivity improve sleep measures in patients with obstructive sleep apnea: a randomized, placebo-controlled pilot study.** *Sleep medicine*
Liu, A., Kim, S. H., Ariel, D., Abbasi, F., Lamendola, C., Cardell, J., Xu, S., Patel, S., Tomasso, V., Mojaddidi, H., Grove, K., Tsao, P. S., Kushida, et al
2016; 22: 57-60
 - **Adjustment for Variable Adherence Under Hierarchical Structure: Instrumental Variable Modeling Through Compound Residual Inclusion.** *Medical care*
Holmes, T. H., Zulman, D. M., Kushida, C. A.
2016: -?
 - **Impact of Randomization, Clinic Visits, and Medical and Psychiatric Comorbidities on Continuous Positive Airway Pressure Adherence in Obstructive Sleep Apnea** *JOURNAL OF CLINICAL SLEEP MEDICINE*
Budhiraja, R., Kushida, C. A., Nichols, D. A., Walsh, J. K., Simon, R. D., Gottlieb, D. J., Quan, S. F.
2016; 12 (3): 333-341
 - **Nasal Dilators (Breathe Right Strips and NoZovent) for Snoring and OSA: A Systematic Review and Meta-Analysis** *PULMONARY MEDICINE*
Camacho, M., Malu, O. O., Kram, Y. A., Nigam, G., Riaz, M., Song, S. A., Tolisano, A. M., Kushida, C. A.
2016: 4841310
 - **IMPACT OF CONTINUOUS POSITIVE AIRWAY PRESSURE TREATMENT ON NON-ALCOHOLIC FATTY LIVER DISEASE IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA**
Kim, D., Mannalithara, A., Udompap, P., Kushida, C., Kim, W.
ELSEVIER SCIENCE BV.2016: S479-S480
 - **Five-Minute Awake Snoring Test for Determining CPAP Pressures (Five-Minute CPAP Test): A Pilot Study** *Sleep Disorders*
Camacho, M., Ruoff, C. M., Kawai, M., Modi, R., Arbee, J., Hekmat, A., Robertson, M., Zaghi, S., Certal, V., Capasso, R., Kushida, C. A.

2016; 2016: 8

- **Five-Minute Awake Snoring Test for Determining CPAP Pressures (Five-Minute CPAP Test): A Pilot Study.** *Sleep disorders*
Camacho, M., Ruoff, C. M., Kawai, M., Modi, R., Arbee, J., Hekmat, A., Robertson, M., Zaghi, S., Certal, V., Capasso, R., Kushida, C. A.
2016; 2016: 7380874-?
- **Chronic intermittent hypoxia leads to insulin resistance and impaired glucose tolerance through dysregulation of adipokines in non-obese rats.** *Sleep & breathing = Schlaf & Atmung*
Fu, C., Jiang, L., Zhu, F., Liu, Z., Li, W., Jiang, H., Ye, H., Kushida, C. A., Li, S.
2015; 19 (4): 1467-1473
- **Comparison of the association with sleep apnoea of obesity versus insulin resistance** *EUROPEAN RESPIRATORY JOURNAL*
Liu, A., Ariel, D., Lamendola, C., Kim, S. H., Abbasi, F., Cardell, J., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, G. M.
2015; 46 (6): 1829-32
- **Obstructive Sleep Apnea Is an Independent Predictor of Postoperative Atrial Fibrillation in Cardiac Surgery** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Wong, J. K., Maxwell, B. G., Kushida, C. A., Sainani, K. L., Lobato, R. L., Woo, J., Pearl, R. G.
2015; 29 (5): 1140-1147
- **Joint Consensus Statement of the American Academy of Sleep Medicine and Sleep Research Society on the Recommended Amount of Sleep for a Healthy Adult: Methodology and Discussion** *SLEEP*
Watson, N. F., Badr, M. S., Belenky, G., Bliwise, D. L., Buxton, O. M., Buysse, D., Dinges, D. F., Gangwisch, J., Grandner, M. A., Kushida, C., Malhotra, R. K., Martin, J. L., Patel, et al
2015; 38 (8): 1161-1183
- **Joint Consensus Statement of the American Academy of Sleep Medicine and Sleep Research Society on the Recommended Amount of Sleep for a Healthy Adult: Methodology and Discussion.** *Sleep*
Watson, N. F., Badr, M. S., Belenky, G., Bliwise, D. L., Buxton, O. M., Buysse, D., Dinges, D. F., Gangwisch, J., Grandner, M. A., Kushida, C., Malhotra, R. K., Martin, J. L., Patel, et al
2015; 38 (8): 1161-1183
- **Usefulness of Fetuin-A to Predict Risk for Cardiovascular Disease Among Patients With Obstructive Sleep Apnea.** *American journal of cardiology*
Liu, A., Lamendola, C., Ariel, D., Abbasi, F., Kim, S. H., Cardell, J., Tomasso, V., Xu, S., Patel, S., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, et al
2015; 116 (2): 219-224
- **Hypoglossal Nerve Stimulation in the Treatment of Obstructive Sleep Apnea: A Systematic Review and Meta-analysis** *LARYNGOSCOPE*
Certal, V. F., Zaghi, S., Riaz, M., Vieira, A. S., Pinheiro, C. T., Kushida, C., Capasso, R., Camacho, M.
2015; 125 (5): 1254-1264
- **Myofunctional Therapy to Treat Obstructive Sleep Apnea: A Systematic Review and Meta-analysis** *SLEEP*
Camacho, M., Certal, V., Abdullatif, J., Zaghi, S., Ruoff, C. M., Capasso, R., Kushida, C. A.
2015; 38 (5): 669-?
- **Abnormalities of Lipoprotein Concentrations in Obstructive Sleep Apnea Are Related to Insulin Resistance** *SLEEP*
Liu, A., Cardell, J., Ariel, D., Lamendola, C., Abbasi, F., Kim, S. H., Holmes, T. H., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, G. M.
2015; 38 (5): 793-?
- **Abnormalities of lipoprotein concentrations in obstructive sleep apnea are related to insulin resistance.** *Sleep*
Liu, A., Cardell, J., Ariel, D., Lamendola, C., Abbasi, F., Kim, S. H., Holmes, T. H., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, G. M.
2015; 38 (5): 793-799
- **Myofunctional Therapy to Treat Obstructive Sleep Apnea: A Systematic Review and Meta-analysis.** *Sleep*
Camacho, M., Certal, V., Abdullatif, J., Zaghi, S., Ruoff, C. M., Capasso, R., Kushida, C. A.
2015; 38 (5): 669-675
- **2-Year Sleep Surgery and Medicine Fellowships for Otolaryngologists** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Camacho, M., Kushida, C. A., Capasso, R.
2015; 152 (4): 766-767
- **Gender differences in REM sleep behavior disorder: a clinical and polysomnographic study in China** *SLEEP MEDICINE*

- Zhou, J., Zhang, J., Li, Y., Du, L., Li, Z., Lei, F., Wing, Y., Kushida, C. A., Zhou, D., Tang, X.
2015; 16 (3): 414-418
- **Inferior Turbinate classification system, grades 1 to 4: Development and validation study.** *Laryngoscope*
Camacho, M., Zaghi, S., Certal, V., Abdullatif, J., Means, C., Acevedo, J., Liu, S., Brietzke, S. E., Kushida, C. A., Capasso, R.
2015; 125 (2): 296-302
 - **The Effect of Nasal Surgery on Continuous Positive Airway Pressure Device Use and Therapeutic Treatment Pressures: A Systematic Review and Meta-Analysis** *SLEEP*
Camacho, M., Riaz, M., Capasso, R., Ruoff, C. M., Guilleminault, C., Kushida, C. A., Certal, V.
2015; 38 (2): 279-?
 - **SMART DOCS: A New Patient-Centered Outcomes and Coordinated-Care Management Approach for the Future Practice of Sleep Medicine** *SLEEP*
Kushida, C. A., Nichols, D. A., Holmes, T. H., Miller, R., Griffin, K., Cardell, C., Hyde, P. R., Cohen, E., Manber, R., Walsh, J. K.
2015; 38 (2): 315-?
 - **Identifying Longitudinal Patterns for Individuals and Subgroups: An Example with Adherence to Treatment for Obstructive Sleep Apnea** *MULTIVARIATE BEHAVIORAL RESEARCH*
Babbin, S. F., Velicer, W. F., Aloia, M. S., Kushida, C. A.
2015; 50 (1): 91-108
 - **The effect of nasal surgery on continuous positive airway pressure device use and therapeutic treatment pressures: a systematic review and meta-analysis.** *Sleep*
Camacho, M., Riaz, M., Capasso, R., Ruoff, C. M., Guilleminault, C., Kushida, C. A., Certal, V.
2015; 38 (2): 279-286
 - **Impact of Randomization, Clinic Visits, and Medical and Psychiatric Comorbidities on Continuous Positive Airway Pressure Adherence in Obstructive Sleep Apnea.** *Journal of clinical sleep medicine*
Budhiraja, R., Kushida, C. A., Nichols, D. A., Walsh, J. K., Simon, R. D., Gottlieb, D. J., Quan, S. F.
2015; 12 (3): 333-341
 - **Nasal Expiratory Positive Airway Pressure Devices (Provent) for OSA: A Systematic Review and Meta-Analysis.** *Sleep disorders*
Riaz, M., Certal, V., Nigam, G., Abdullatif, J., Zaghi, S., Kushida, C. A., Camacho, M.
2015; 2015: 734798-?
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