

NARESH M. PUNJABI, MD, PhD

I. PERSONAL

Name: Naresh M. Punjabi
Office Phone: (305) 243-6388
Work Address: Division of Pulmonary, Critical Care, and Sleep Medicine
1951 NW 7th Ave, Miami, FL 33136

Current Academic Rank: Professor of Medicine (with Tenure)
Mary Jane and Lino Sertel Professorship in Pulmonary Disease

Current Track of Appointment: Tenure
Primary Department: Medicine
Secondary/Joint Appointments: None
Citizenship: United States

II. HIGHER EDUCATION

Institutional:

Northwestern University McCormick School of Engineering	BS Biomedical Engineering (Honors)	06/1987
University of Chicago Pritzker School of Medicine	MD Medical School	06/1991
Johns Hopkins Hospital School of Medicine	Internship Internal Medicine	06/1992
Johns Hopkins Hospital School of Medicine	Residency Internal Medicine	06/1994
Johns Hopkins University School of Medicine	Postdoctoral fellowship Pulmonary, Critical Care, & Sleep	06/1999
Johns Hopkins University School of Public Health	PhD Clinical Investigation	05/2001

Certification:

National Board of Medical Examiners I, II, and III (#398288)
American Board of Internal Medicine (ABIM): 1994-2015
Pulmonary Medicine (ABIM): 1998-Present
Critical Care Medicine (ABIM): 1999-Present
Sleep Medicine (ABIM): 2009-Present
Diplomate, American Board of Sleep Medicine: 2002

Licensure:

Florida Medical License (M146769):	08/2020-Present
Drug Enforcement Agency (BP4095065):	06/1994-Present
Maryland Medical License (D46132):	06/1994-2020
Maryland Division of Drug Control	06/1994-2020

III. EXPERIENCE

Academic Positions (In Reverse Chronological Order)

Professor with Tenure, Department of Medicine University of Miami, Miller School of Medicine, Miami, FL	09/2020 – Present
Adjunct Professor, Department of Medicine Johns Hopkins University School of Medicine, Baltimore, MD	09/2020 – Present
Visiting Professor, Department of Medicine University of Rosario, Bogota (Colombia)	09/2020 – Present
Professor, Department of Medicine and Epidemiology (Joint Appointment) Johns Hopkins University School of Medicine, Baltimore, MD	10/2010 – 08/2020
Associate Professor, Department of Medicine and Epidemiology Johns Hopkins University School of Medicine, Baltimore, MD	03/2005 – 09/2010
Assistant Professor, Departments of Medicine and Epidemiology Johns Hopkins University, Baltimore, MD	07/2000 – 02/2005
Instructor, Department of Medicine Johns Hopkins University School of Medicine, Baltimore, MD	07/1999 – 06/2020
Primary Care Physician and Part-Time Faculty (Instructor) Johns Hopkins Medical Services Corporation, Baltimore, MD.	07/1994 – 06/1995

Hospital Appointments (In Reverse Chronological Order)

University of Miami, Miller School of Medicine Chief, Division of Pulmonary and Critical Care Medicine	09/2020 – Present
Miami Veteran Administration Hospital Chief, Division of Pulmonary, Critical Care, and Sleep Medicine	02/2021 – Present
Jackson Memorial Hospital, Miami, FL Pulmonary and Critical Care Medicine	01/2021 – Present
Johns Hopkins Hospital Attending Physician, Division of Pulmonary and Critical Care Medicine	07/1999 – 08/2020
Johns Hopkins Bayview Medical Center Attending Physician, Division of Pulmonary and Critical Care Medicine	07/1999 – 08/2020

IV. PUBLICATIONS [Web of Science H-Index: 61 on 1/30/2023; Articles Cited 16,224 times]

Refereed Journal Articles (In Reverse Chronological Order)

1. Aurora RN, Rooney MR, Wang D, Selvin E, **Punjabi NM**. Effects of Positive Airway Pressure Therapy on Glycemic Variability in Patients with Type 2 Diabetes and Obstructive Sleep Apnea: A Randomized Controlled Trial. *Chest*. 2023 (in press)
2. Del Rosario O, Suresh K, Kallem M, Singh G, Shah A, Zheng L, Yun X, Philip NM, Putcha N, McClure MB, Jiang H, D'Alessio F, Srivastava M, Bera A, Shimoda LA, Merchant M, Rane MJ, Machamer CE, Mock J, Hagan R, Koch AL, **Punjabi NM**, Kolb TM, Damarla M. MK2 non-enzymatically promotes nuclear translocation of caspase-3 and resultant apoptosis. *J Physiol Lung Cell Mol Physiol*. 2023 (in press)
3. Suresh K, Del Rosario O, Kallem M, Singh G, Shah A, Zheng L, Yun X, Philip NM, Putcha N, McClure MB, Jiang H, D'Alessio F, Srivastava M, Bera A, Shimoda LA, Merchant M, Rane MJ, Machamer CE, Mock J, Hagan R, Koch AL, **Punjabi NM**, Kolb TM, Damarla M. Tumor MK2 transcript levels are associated with improved response to chemotherapy and patient survival in non-small cell lung cancer. (in press)
4. Fang M, Wang D, Rooney MR, Echouffo-Tcheugui JB, Coresh J, Aurora RN, **Punjabi NM**, Selvin E. Performance of the Glucose Management Indicator (GMI) in Type 2 Diabetes. *Clin Chem*. 2023 Apr 3;69(4):422-428.
5. Selvin E, Wang D, Rooney MR, Fang M, Echouffo-Tcheugui JB, Zeger S, Sartini J, Tang O, Coresh J, Aurora RN, **Punjabi NM**. Within-Person and Between-Sensor Variability in Continuous Glucose Monitoring Metrics. *Clin Chem*. 2022 Dec 10:hvac192. doi: 10.1093/clinchem/hvac192.
6. **Punjabi NM**, Brown TT, Aurora RN, Patel SR, Stosor V, Cho JH, D'Souza G, Margolick JB. Prevalence and Predictors of Sleep-disordered Breathing in Men Participating in the Multicenter AIDS Cohort Study. *Chest*. 2023 Mar;163(3):687-696.
7. Selvin E, Wang D, Rooney MR, Echouffo-Tcheugui J, Fang M, Zeger S, Sartini J, Tang O, Coresh J, Aurora RN, **Punjabi NM**. The Associations of Mean Glucose and Time-in-Range from Continuous Glucose Monitoring with HbA1c in Adults with Type 2 Diabetes. *Diabetes Technol Ther*. 2023 Jan;25(1):86-90.
8. Schwenck J, **Punjabi NM**, Gaynanova I. bp: Blood pressure analysis in R. *PLoS One*. 2022 Sep 9;17(9):e0268934.
9. Bakker JP, Ross M, Cerny A, Vasko R, Shaw E, Kuna S, Magalang UJ, **Punjabi NM**, Anderer P. Scoring sleep with artificial intelligence enables quantification of sleep stage ambiguity: Hypnodensity based on multiple expert scorers and auto-scoring. *Sleep*. 2022 Jul 3:zsac154.
10. Kudchadkar SR, Berger J, Patel R, Barnes S, Twose C, Walker T, Mitchell R, Song J, Anton B, **Punjabi NM**. Non-pharmacological interventions for sleep promotion in hospitalized children. *Cochrane Database Syst Rev*. 2022 Jun 15;6(6):CD012908.
11. **Punjabi NM**, Brown T, Aurora RN, Patel SR, Stosor V, Cho JH, Helgadóttir H, Ágústsson JS, D'Souza G, Margolick JB. Methods for home-based self-applied polysomnography: the Multicenter AIDS Cohort Study. *Sleep Adv*. 2022 Apr 29;3(1):zpac011.
12. Aurora RN, Gaynanova I, Patel P, **Punjabi NM**. Glucose profiles in obstructive sleep apnea and type 2 diabetes mellitus. *Sleep Med*. 2022; 95:105-111

13. Mathews L, Ding N, Sang Y, Loehr LR, Shin JI, **Punjabi NM**, Bertoni AG, Crews DC, Rosamond WD, Coresh J, Ndumele CE, Matsushita K, Chang PP. Racial Differences in Trends and Prognosis of Guideline-Directed Medical Therapy for Heart Failure with Reduced Ejection Fraction: The Atherosclerosis Risk in Communities (ARIC) Surveillance Study. *J Racial Ethn Health Disparities*. 2022.
14. Fernandes NJ, Nguyen N, Chun E, **Punjabi NM**, Gaynanova I. Open-Source Algorithm to Calculate Mean Amplitude of Glycemic Excursions Using Short and Long Moving Averages. *J Diabetes Sci Technol*. 2022
15. Suresh K, Servinsky L, Johnston L, **Punjabi NM**, Dudek SM, Damarla M. Comparison of polynomial fitting versus single time point analysis of ECIS data for barrier assessment. *Physiol Rep*. 2021 Oct;9(19): e14983. doi: 10.14814/phy2.14983.
16. Wallace DM, Alcaide ML, Wohlgemuth WK, Jones Weiss DL, Uribe Starita C, Patel SR, Stosor V, Levine A, Skvarca C, Long DM, Rubtsova A, Adimora AA, Gange SJ, Spence AB, Anastos K, Aouizerat BE, Anziska Y, **Punjabi NM**. Prevalence and correlates of restless legs syndrome in men living with HIV. *PLoS One*. 2021 Oct 1;16(10): e0258139.
17. Friedman E, Franzone J, Ko ER, Corey K, Mock J, Alavian N, Schwartz A, Drummond MB, Suber T, Linstrom K, Bain W, Castiblanco SA, Zak M, Zaeh S, Gupta I, Damarla M, **Punjabi NM**. Rationale and design of the Prone Position and Respiratory Outcomes in Non-intubated COVID-19 PatiEnts: The "PRONE" Study. *Contemp Clin Trials*. 2021; 109:106541.
18. Solhjoo S, **Punjabi NM**, Ivanescu AE, Crainiceanu C, Gaynanova I, Wicken C, Buckenmaier C 3rd, Haigney MC. Solhjoo S, Punjabi NM, Ivanescu AE, Crainiceanu C, Gaynanova I, Wicken C, Buckenmaier C 3rd, Haigney MC. *Clin Pharmacol Ther*. 2021;110(4):1066-1074.
19. Scannell Bryan M, Sofer T, Afshar M, Mossavar-Rahmani Y, Hosgood HD, **Punjabi NM**, Zeng D, Daviglus ML, Argos M. Mendelian randomization analysis of arsenic metabolism and pulmonary function within the Hispanic Community Health Study/Study of Latinos. *Sci Rep*. 2021 Jun 29;11(1):13470
20. Aurora RN, **Punjabi NM**. Postprandial hyperglycemia in type 2 diabetes and obstructive sleep apnea. *Sleep Med*. 2021; 84:173-178.
21. Scannell Bryan M, Sofer T, Afshar M, Mossavar-Rahmani Y, Hosgood HD, **Punjabi NM**, Zeng D, Daviglus ML, Argos M. Mendelian randomization analysis of arsenic metabolism and pulmonary function within the Hispanic Community Health Study/Study of Latinos. *Sci Rep*. 2021 Jun 29;11(1):13470.
22. Stefanovski D, **Punjabi NM**, Boston RC, Watanabe RM. Insulin Action, Glucose Homeostasis and Free Fatty Acid Metabolism: Insights from a Novel Model. *Front Endocrinol (Lausanne)*. 2021 Mar 16; 12:625701. doi: 10.3389.
23. Broll S, Urbanek J, Buchanan D, Chun E, Muschelli J, **Punjabi NM**, Gaynanova I. Interpreting blood GLUcose data with R package iglu. *PLoS One*. 2021 Apr 1;16(4): e0248560. doi: 10.1371.
24. Malhotra A, Ayappa I, Ayas N, Collop N, Kirsch D, Mcardle N, Mehra R, Pack AI, **Punjabi N**, White DP, Gottlieb DJ. Metrics of sleep apnea severity: beyond the apnea-hypopnea index. *Sleep*. 2021 Jul 9;44(7): zsab030.
25. Sawyer AM, Wallace DM, Buenaver LF, Watach AJ, Blase A, Saconi B, Patel SR, Kuna ST, **Punjabi NM**. Where to Next for Optimizing Adherence in Large-Scale Trials of Continuous Positive Airway Pressure? *Sleep Med Clin*. 2021 Mar;16(1):125-144.

26. Stefanovski D, **Punjabi NM**, Boston RC, Watanabe RM. Insulin Action, Glucose Homeostasis and Free Fatty Acid Metabolism: Insights from a Novel Model *Frontiers in Endocrinology* (Accepted)
27. Rooney MR, Aurora RN, Wang D, Selvin E, **Punjabi NM**. Rationale and Design of Hyperglycemic Profiles in Obstructive Sleep Apnea Trial: The HYPNOS Trial. *Contemp Clin Trials* (Accepted)
28. Stefanovski D, Boston RC, **Punjabi NM**. Sleep-Disordered Breathing and Free Fatty Acid Metabolism. *Chest*. 2020 Nov;158(5):2155-2164.
29. Gottlieb DJ, **Punjabi NM**. Diagnosis and Management of Obstructive Sleep Apnea: A Review. *JAMA*. 2020 Apr 14;323(14):1389-140
30. Kapp CM, Zaeh S, Niedermeyer S, **Punjabi NM**, Siddharthan T, Damarla M. The Use of Analgesia and Sedation in Mechanically Ventilated Patients With COVID-19 Acute Respiratory Distress Syndrome. *Anesth Analg*. 2020 Oct;131(4):e198-e200.
31. Macrea M, Oczkowski S, Rochweg B, Branson RD, Celli B, Coleman JM 3rd, Hess DR, Knight SL, Ohar JA, Orr JE, Piper AJ, **Punjabi NM**, Rahangdale S, Wijkstra PJ, Yim-Yeh S, Drummond MB, Owens RL. Long-Term Noninvasive Ventilation in Chronic Stable Hypercapnic Chronic Obstructive Pulmonary Disease: An Official American Thoracic Society Clinical Practice Guideline. *Am J Respir Crit Care Med*. 2020;202(4):e74-e8.
32. Kwon Y, Mariani S, Gadi SR, Jacobs DR Jr, **Punjabi NM**, Reid ML, Azarbarzin A, Wellman AD, Redline S. Characterization of lung-to-finger circulation time in sleep study assessment: the Multi-Ethnic Study of Atherosclerosis. *Physiol Meas*. 2020;41(6):065004.
33. **Punjabi NM**, Patil S, Crainiceanu C, Aurora RN. Variability and Misclassification of Sleep Apnea Severity Based on Multi-Night Testing. *Chest*. 2020; 158(1):365-373
34. Stefanovski D, Moate PJ, Frank N, Ward GM, Localio AR, **Punjabi NM**, Boston RC. Metabolic modeling using statistical and spreadsheet software: Application to the glucose minimal model. *Comput Methods Programs Biomed*. 2020;191:105353.
35. Bertrand SJ, Zhang Z, Patel R, O'Ferrell C, **Punjabi NM**, Kudchadkar SR, Kannan S. Transient neonatal sleep fragmentation results in long-term neuroinflammation and cognitive impairment in a rabbit model. *Exp Neurol*. 2020; 327: 113212.
36. Aurora RN, McGuffey E, **Punjabi NM**. Natural history of sleep-disordered breathing during REM sleep: Relevance for incident cardiovascular disease. *Ann Am Thorac Soc*. 2020;17(5):614-620
37. Heravi AS, Etzkorn L, Urbanek J, Crainiceanu C, **Punjabi NM**, Ashikaga H, Brown TT, Budoff MJ, D'Souza G, Magnani JW, Palella FJ Jr, Berger RD, Wu KC, Post WS. HIV Infection is Associated with Variability in Ventricular Repolarization: The Multicenter AIDS Cohort Study (MACS). *Circulation*. 2020; 141(3): 176-187.
38. Han YY, Jerschow E, Forno E, Hua S, Mossavar-Rahmani Y, Perreira K, Sotres-Alvarez D, Afshar M, **Punjabi NM**, Thyagarajan B, Shivappa N, Hébert JR, Kaplan RC, Celedón JC. Dietary Patterns, Asthma, and Lung Function in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *Ann Am Thorac Soc*. 2020; 17(3): 293-301.
39. Kim JS, Azarbarzin A, Wang R, Djonlagic IE, **Punjabi NM**, Zee PC, Koo BB, Soliman EZ, Younes M, Redline S. Association of novel measures of sleep disturbances with blood pressure: The Multi-Ethnic Study of Atherosclerosis. *Thorax*. 2020; 75(1): 57-63.
40. Aurora RN, **Punjabi NM**. Obstructive sleep Apnea, sleepiness, and glycemic control in type 2 diabetes. *J Clin Sleep Med*. 2019; 15(5):749-755.

41. Castelnovo A, Ferri R, **Punjabi NM**, Castronovo V, Garbazza C, Zucconi M, Ferini-Strambi L, Manconi M. The paradox of paradoxical insomnia: A theoretical review towards a unifying evidence-based definition. *J Clin Sleep Med*. 2019;15(5):749-755.
42. Neeland IJ, Boone SC, Mook-Kanamori DO, Ayers C, Smit RAJ, Tzoulaki I, Karaman I, Boulange C, Vaidya D, **Punjabi N**, Allison M, Herrington DM, Jukema JW, Rosendaal FR, Lamb HJ, van Dijk KW, Greenland P, de Mutsert R. Metabolomics Profiling of Visceral Adipose Tissue: Results From MESA and the NEO Study. *J Am Heart Assoc*. 2019; 8(9):e010810.
43. Whitaker KM, Lutsey PL, Ogilvie RP, Pankow JS, Bertoni A, Michos ED, Punjabi N, Redline S. Associations between polysomnography and actigraphy-based sleep indices and glycemic control among those with and without type 2 diabetes: the Multi-Ethnic Study of Atherosclerosis. *Sleep*. 2018; 41(11); zsy172.
44. Piccini JP, Pokorney SD, Anstrom KJ, Oldenburg O, **Punjabi NM**, Fiuzat M, Tasissa G, Whellan DJ, Lindenfeld J, Benjafield A, Woehrle H, Blase A, O'Connor CM. Adaptive servo-ventilation reduces atrial fibrillation burden in patients with heart failure and sleep apnea. *Heart Rhythm*. 2019; 16(1): 91-97.
45. Lederer DJ, Bell SC, Branson RD, Chalmers JD, Marshall R, Maslove DM, Ost DE, **Punjabi NM**, Schatz M, Smyth AR, Stewart PW, Suissa S, Adjei AA, Akdis CA, Azoulay É, Bakker J, Ballas ZK, Bardin PG, Barreiro E, Bellomo R, Bernstein JA, Brusasco V, Buchman TG, Chokroverty S, Collop NA, Crapo JD, Fitzgerald DA, Hale L, Hart N, Herth FJ, Iwashyna TJ, Jenkins G, Kolb M, Marks GB, Mazzone P, Moorman JR, Murphy TM, Noah TL, Reynolds P, Riemann D, Russell RE, Sheikh A, Sotgiu G, Swenson ER, Szczesniak R, Szymusiak R, Teboul JL, Vincent JL. Control of Confounding and Reporting of Results in Causal Inference Studies: Guidance for Authors from Editors of Respiratory, Sleep, and Critical Care Journals. *Ann Am Thorac Soc*. 2019; 16(1): 22-28.
46. Castelnovo A, Ferri R, **Punjabi NM**, Castronovo V, Garbazza C, Zucconi M, Ferini-Strambi L, Manconi M. The paradox of paradoxical insomnia: A theoretical review towards a unifying evidence-based definition. *Sleep Med Rev*. 2019; 44:70-82.
47. Polak J, **Punjabi NM**, Shimoda LA. Blockade of Endothelin-1 Receptor Type B Ameliorates Glucose Intolerance and Insulin Resistance in a Mouse Model of Obstructive Sleep Apnea. *Front Endocrinol (Lausanne)*. 2018; 9:280.
48. Logan JG, Kang H, Lobo JM, Sohn MW, Lin GM, Lima JAC, **Punjabi NM**, Redline S, Kwon Y. Actigraphy-based sleep characteristics and aortic stiffness: the Multi-Ethnic Study of Atherosclerosis. *J Am Soc Hypertens*. 2018; 12(12): 841-849.
49. Aurora RN, Patil SP, **Punjabi NM**. Portable Sleep monitoring for diagnosing sleep apnea in hospitalized patients with heart failure. *Chest*. 2018; 154(1):91-98.
50. Aurora RN, Crainiceanu C, Gottlieb DJ, Kim JS, **Punjabi NM**. Obstructive sleep apnea during rapid eye movement sleep and cardiovascular disease. *Am J Respir Crit Care Med*. 2018; 197(5):653-660.
51. Javaheri S, Zhao YY, **Punjabi NM**, Quan SF, Gottlieb DJ, Redline S. Slow wave sleep is associated with incident hypertension: The sleep heart health study. *Sleep*. 2018; 41(1).
52. Lecube A, Simó R, Pallayova M, **Punjabi NM**, López-Cano C, Turino C, Hernández C, Barbé F. Pulmonary function and sleep breathing: two new targets for type 2 diabetes care. *Endocr Rev*. 2017; 38(6):550-573

53. Sumida K, Kwak L, Grams ME, Yamagata K, **Punjabi NM**, Kovesdy CP, Coresh J, Matsushita K. Lung Function and Incident Kidney Disease: The Atherosclerosis Risk in Communities (ARIC) Study. *Am J Kidney Dis.* 2017; 70(5):675-685.
54. Lutsey PL, Misialek JR, Mosley TH, Gottesman RF, **Punjabi NM**, Shahar E, MacLehose R, Ogilvie RP, Knopman D, Alonso A. Sleep characteristics and risk of dementia and Alzheimer's disease: The Atherosclerosis Risk in Communities Study. *Alzheimers Dement.* 2017 (In Press)
55. Tung P, Levitzky YS, Wang R, Weng J, Quan SF, Gottlieb DJ, Rueschman M, **Punjabi NM**, Mehra R, Bertisch S, Benjamin EJ, Redline S. Obstructive and Central Sleep Apnea and the Risk of Incident Atrial Fibrillation in a Community Cohort of Men and Women. *J Am Heart Assoc.* 2017 July 1; 6(7).
56. Lewis EF, Wang R, **Punjabi N**, Gottlieb DJ, Quan SF, Bhatt DL, Patel SR, Mehra R, Blumenthal RS, Weng J, Rueschman M, Redline S. Impact of continuous positive airway pressure and oxygen on health status in patients with coronary heart disease, cardiovascular risk factors, and obstructive sleep apnea: A Heart Biomarker Evaluation in Apnea Treatment (HEARTBEAT) analysis. *Am Heart J.* 2017;189:59-67
57. Türoff A, Thiem U, Fox H, Spießhöfer J, Bitter T, Tamisier R, **Punjabi NM**, Horstkotte D, Oldenburg O. Sleep duration and quality in heart failure patients. *Sleep Breath.* 2017 (In Press)
58. Gottlieb DJ, Somers VK, **Punjabi NM**, Winkelman JW. Restless legs syndrome and cardiovascular disease: a research roadmap. *Sleep Med.* 2017; 31: 10-17.
59. Warren B, Pankow JS, Matsushita K, **Punjabi NM**, Daya NR, Grams M, Woodward M, Selvin E. Comparative prognostic performance of definitions of prediabetes: a prospective cohort analysis of the Atherosclerosis Risk in Communities (ARIC) study. *Lancet Diabetes Endocrinol.* 2017; 5(1):34-42
60. O'Connor CM, Whellan DJ, Fiuzat M, **Punjabi NM**, Tasissa G, Anstrom KJ, Benjafield AV, Woehrle H, Blase AB, Lindenfeld J, Oldenberg O. Cardiovascular Outcomes With Minute Ventilation-Targeted Adaptive Servo-Ventilation Therapy in Heart Failure: The CAT-HF Trial. *J Am Coll Cardiol.* 2017
61. Campos-Rodriguez F, Martínez-García MA, Reyes-Nuñez N, Selma-Ferrer MJ, **Punjabi NM**, Farre R. Impact of different hypopnea definitions on obstructive sleep apnea severity and cardiovascular mortality risk in women and elderly individuals. *Sleep Med.* 2016 Nov-Dec 27-28:54-58
62. Lutsey PL, Norby FL, Gottesman RF, Mosley T, MacLehose RF, **Punjabi NM**, Shahar E, Jack CR Jr, Alonso A. Sleep Apnea, Sleep Duration and Brain MRI Markers of Cerebral Vascular Disease and Alzheimer's Disease: The Atherosclerosis Risk in Communities Study (ARIC). *PLoS One.* 2016 Jul 14; 11(7):e0158758.
63. Nagayoshi M, **Punjabi NM**, Selvin E, Pankow JS, Shahar E, Iso H, Folsom AR, Lutsey PL. Obstructive sleep apnea and incident type 2 diabetes. *Sleep Med.* 2016; 25:156-161.
64. Aurora RN, Kim JS, Crainiceanu C, O'Hearn D, **Punjabi NM**. Habitual Sleep Duration and All-Cause Mortality in a General Community Sample. *Sleep.* 2016; 39(11):1903-1909.
65. Amin N, Allebrandt KV, van der Spek A, Müller-Myhsok B, Hek K, Teder-Laving M, Hayward C, Esko T, van Mill JG, Mbarek H, Watson NF, Melville SA, Del Greco FM, Byrne EM, Oole E, Kolcic I, Chen TH, Evans DS, Coresh J, Vogelzangs N, Karjalainen J, Willemsen G, Gharib SA, Zgaga L, Mihailov E, Stone KL, Campbell H, Brouwer RW, Demirkan A, Isaacs A, Dogas Z, Marcianti KD, Campbell S, Borovecki F, Luik AI, Li M, Hottenga JJ, Huffman JE, van den Hout MC,

- Cummings SR, Aulchenko YS, Gehrman PR, Uitterlinden AG, Wichmann HE, Müller-Nurasyid M, Fehrmann RS, Montgomery GW, Hofman A, Kao WH, Oostra BA, Wright AF, Vink JM, Wilson JF, Pramstaller PP, Hicks AA, Polasek O, **Punjabi NM**, Redline S, Psaty BM, Heath AC, Morrow M, Tranah GJ, Gottlieb DJ, Boomsma DI, Martin NG, Rudan I, Tiemeier H, van IJcken WF, Penninx BW, Metspalu A, Meitinger T, Franke L, Roenneberg T, van Duijn CM. Genetic variants in RBF3X are associated with sleep latency. *Eur J Hum Genet.* 2016; 24(10):1488-95.
66. Kudchadkar SR, Beers MC, Ascenzi JA, Jastaniah E, **Punjabi NM**. Nurses' Perceptions of Pediatric Intensive Care Unit Environment and Work Experience After Transition to Single-Patient Rooms. *Am J Crit Care.* 2016 25(5) e98-e107.
 67. Putcha N, Crainiceanu C, Norato G, Samet J, Quan S, Gottlieb DJ, Redline S, **Punjabi NM**. Influence of Lung Function and Sleep-Disordered Breathing on All-Cause Mortality: A Community Based Study. *Am J Respir Crit Care Med.* 2016; 197(6): 1007-1014.
 68. Fiuzat M, Oldenberg O, Whellan DJ, Woehrle H, **Punjabi NM**, Anstrom KJ, Blase AB, Benjafield AV, Lindenfeld J, O'Connor CM. Lessons learned from a clinical trial: Design, rationale, and insights from The Cardiovascular Improvements with Minute Ventilation-targeted Adaptive Servo-Ventilation (ASV) Therapy in Heart Failure (CAT-HF) Study. *Contemp Clin Trials.* 2016; 47:158-64.
 69. Lutsey PL, Norby FL, Gottesman RF, Mosley T, MacLehose RF, **Punjabi NM**, Shahar E, Jack CR Jr, Alonso A. Sleep Apnea, Sleep Duration and Brain MRI Markers of Cerebral Vascular Disease and Alzheimer's Disease: The Atherosclerosis Risk in Communities Study (ARIC). *PLoS One.* 2016; 11(7): e0158758.
 70. Lane JM, Chang AM, Bjorndal AC, Aeschbach D, Anderson C, Cade BE, Cain SW, Czeisler CA, Gharib SA, Gooley JJ, Gottlieb DJ, Grant SF, Klerman EB, Lauderdale DS, Lockley SW, Munch M, Patel S, **Punjabi NM**, Rajaratnam SM, Rueger M, St Hilaire MA, Santhi N, Scheuermaier K, Van Reen E, Zee PC, Shea SA, Duffy JF, Buxton OM, Redline S, Scheer FA, Saxena R. Impact of Common Diabetes Risk Variant in MTNR1B on Sleep, Circadian, and Melatonin Physiology. *Diabetes.* 2016;65(6):1741-51.
 71. Aurora RN, Putcha N, Swartz R, **Punjabi NM**. Agreement between Results of Home Sleep Testing for Obstructive Sleep Apnea with and without a Sleep Specialist. *Am J Med.* 2016; 129(7):725-30.
 72. Shaw JE, **Punjabi NM**, Naughton MT, Willes L, Bergenstal RM, Cistulli PA, Fulcher GR, Richards GN, Zimmet PZ. The Effect of Treatment of Obstructive Sleep Apnea on Glycemic Control in Type 2 Diabetes. *Am J Respir Crit Care Med.* 2016;194(4):486-92
 73. Lutsey PL, Bengtson LG, **Punjabi NM**, Shahar E, Mosley TH, Gottesman RF, Wruck LM, MacLehose RF, Alonso A. Obstructive Sleep Apnea and 15-Year Cognitive Decline: The Atherosclerosis Risk in Communities (ARIC) Study. *Sleep.* 2016 (n press)
 74. Polotsky VY, Bevans-Fonti S, Grigoryev DN, **Punjabi NM**. Intermittent Hypoxia Alters Gene Expression in Peripheral Blood Mononuclear Cells of Healthy Volunteers. *PLoS One.* 2015; 10(12):e0144725.
 75. Cade BE, Gottlieb DJ, Lauderdale DS, Bennett DA, Buchman AS, Buxbaum SG, De Jager PL, Evans DS, Fülöp T, Gharib SA, Johnson WC, Kim H, Larkin EK, Lee SK, Lim AS, **Punjabi NM**, Shin C, Stone KL, Tranah GJ, Weng J, Yaffe K, Zee PC, Patel SR, Zhu X, Redline S, Saxena R. Common variants in DRD2 are associated with sleep duration: the CARE consortium. *Hum Mol Genet.* 2016; 25(1):167-79.
 76. Arble DM, Bass J, Behn CD, Butler MP, Challet E, Czeisler C, Depner CM, Elmquist J, Franken P, Grandner MA, Hanlon EC, Keene AC, Joyner MJ, Karatsoreos I, Kern PA, Klein S, Morris CJ,

- Pack AI, Panda S, Ptacek LJ, **Punjabi NM**, Sassone-Corsi P, Scheer FA, Saxena R, Sequest ER, Thimman MS, Van Cauter E, Wright KP. Impact of Sleep and Circadian Disruption on Energy Balance and Diabetes: A Summary of Workshop Discussions. *Sleep*. 2015; 38(12):1849-60.
77. Swihart BJ, **Punjabi NM**, Crainiceanu CM. Modeling sleep fragmentation in sleep hypnograms: An instance of fast, scalable discrete-state, discrete-time analyses. *Comput Stat Data Anal*. 2015 Sep;89:1-11.
78. Ho V, Crainiceanu CM, **Punjabi NM**, Redline S, Gottlieb DJ. Calibration Model for Apnea-Hypopnea Indices: Impact of Alternative Criteria for Hypopneas. *Sleep*. 2015; 38(12):1887-92.
79. Chami HA, Gottlieb DJ, Redline S, **Punjabi NM**. Association between Glucose Metabolism and Sleep-disordered Breathing during REM Sleep. *Am J Respir Crit Care Med*. 2015; 192(9):1118-26
80. Kudchadkar SR, Yaster M, Punjabi AN, Quan SF, Goodwin JL, Easley RB, **Punjabi NM**. Temporal Characteristics of the Sleep EEG Power Spectrum in Critically Ill Children. *J Clin Sleep Med*. 2015; 11(12):1449-54.
81. **Punjabi NM**, Shifa N, Doffner G, Patil S, Pien G, Aurora RN. Computer-Assisted Automated Scoring of Polysomnograms Using the Somnolyzer System. *Sleep*. 2015 Oct 1;38(10):1555-66.
82. Gottlieb DJ, Hek K, Chen TH, Watson NF, Eiriksdottir G, Byrne EM, Cornelis M, Warby SC, Bandinelli S, Cherkas L, Evans DS, Grabe HJ, Lahti J, Li M, Lehtimäki T, Lumley T, Marcianti KD, Pérusse L, Psaty BM, Robbins J, Tranah GJ, Vink JM, Wilk JB, Stafford JM, Bellis C, Biffar R, Bouchard C, Cade B, Curhan GC, Eriksson JG, Ewert R, Ferrucci L, Fülöp T, Gehrman PR, Goodloe R, Harris TB, Heath AC, Hernandez D, Hofman A, Hottenga JJ, Hunter DJ, Jensen MK, Johnson AD, Kähönen M, Kao L, Kraft P, Larkin EK, Lauderdale DS, Luik AI, Medici M, Montgomery GW, Palotie A, Patel SR, Pistis G, Porcu E, Quaye L, Raitakari O, Redline S, Rimm EB, Rotter JI, Smith AV, Spector TD, Teumer A, Uitterlinden AG, Vohl MC, Widen E, Willemssen G, Young T, Zhang X, Liu Y, Blangero J, Boomsma DI, Gudnason V, Hu F, Mangino M, Martin NG, O'Connor GT, Stone KL, Tanaka T, Viikari J, Gharib SA, **Punjabi NM**, Räikkönen K, Völzke H, Mignot E, Tiemeier H. Novel loci associated with usual sleep duration: the CHARGE Consortium Genome-Wide Association Study. *Mol Psychiatry*. 2015; 20(10):1232-9.
83. Bakker JP, Weng J, Wang R, Redline S, **Punjabi NM**, Patel SR. Associations Between Obstructive Sleep Apnea, Sleep Duration, and Abnormal Fasting Glucose: The Multi-Ethnic Study of Atherosclerosis. *Am J Respir Crit Care Med*. 2015; 192(6):745-53.
84. Lin GM, Colangelo LA, Lloyd-Jones DM, Redline S, Yeboah J, Heckbert SR, Nazarian S, Alonso A, Bluemke DA, **Punjabi NM**, Szklo M, Liu K. Association of Sleep Apnea and Snoring With Incident Atrial Fibrillation in the Multi-Ethnic Study of Atherosclerosis. *Am J Epidemiol*. 2015; 182(1):49-57.
85. Hajat A, Moore K, Phuong Do D, Stein Merkin S, **Punjabi NM**, Sánchez BN, Seeman T, Diez-Roux AV. Examining the cross-sectional and longitudinal association between diurnal cortisol and neighborhood characteristics: Evidence from the multi-ethnic study of atherosclerosis. *Health Place*. 2015; 34:199-206.
86. Moon K, **Punjabi NM**, Aurora RN. Obstructive Sleep Apnea and Type 2 Diabetes in Older Adults. *Clin Geriatr Med*. 2015; 31(1):139-147
87. McCarty DE, **Punjabi NM**, Kim PY, Frilot C 2nd, Marino AA. Recurrence analysis of the EEG during sleep accurately identifies subjects with mental health symptoms. *Psychiatry Res*. 2014; 224(3):335-40.

88. Aurora RN, Swartz R, **Punjabi NM**. Misclassification of Obstructive Sleep Apnea Severity with Automated Scoring of Home Sleep Recordings. *Chest*. 2015; 147(3):719-27.
89. Dean DA, Wang R, Jacobs DR, Duprez D, **Punjabi NM**, Zee PC, Shea S, Watson K, Redline S. A Systematic Assessment of the Association of Polysomnographic Indices with Blood Pressure: The Multi-Ethnic Study of Atherosclerosis (MESA). *Sleep*. 2015; 38(4):587-96.
90. Spira AP, Stone KL, Rebok GW, **Punjabi NM**, Redline S, Ancoli-Israel S, Yaffe K. Sleep-disordered breathing and functional decline in older women. *J Am Geriatr Soc*. 2014; 62(11):2040-6.
91. Walia HK, Li H, Rueschman M, Bhatt DL, Patel SR, Quan SF, Gottlieb DJ, **Punjabi NM**, Redline S, Mehra R. Association of severe obstructive sleep apnea and elevated blood pressure despite antihypertensive medication use. *J Clin Sleep Med*. 2014; 10(8):835-43.
92. Tanno S, Tanigawa T, Saito I, Nishida W, Maruyama K, Eguchi E, Sakurai S, Osawa H, **Punjabi NM**. Sleep-related intermittent hypoxemia and glucose intolerance: a community-based study. *Sleep Med*. 2014; 15(10):1212-8.
93. Shin MK, Han W, Bevans-Fonti S, Jun JC, **Punjabi NM**, Polotsky VY. The effect of adrenal medullectomy on metabolic responses to chronic intermittent hypoxia. *Respir Physiol Neurobiol*. 2014; 203:60-7
94. Gottlieb DJ, **Punjabi NM**, Mehra R, Patel SR, Quan SF, Babineau DC, Tracy RP, Rueschman M, Blumenthal RS, Lewis EF, Bhatt DL, Redline S. CPAP versus oxygen in obstructive sleep apnea. *N Engl J Med*. 2014; 370(24):2276-85.
95. Kudchadkar SR, Yaster M, **Punjabi NM**. Sedation, sleep promotion, and delirium screening practices in the care of mechanically ventilated children: a wake-up call for the pediatric critical care community. *Crit Care Med*. 2014;42(7):1592-600
96. Aurora RN, **Punjabi NM**. Obstructive sleep apnoea and type 2 diabetes mellitus: a bidirectional association. *Lancet Respir Med*. 2013;1(4):329-38
97. Seif F, Patel SR, Walia HK, Rueschman M, Bhatt DL, Blumenthal RS, Quan SF, Gottlieb DJ, Lewis EF, Patil SP, **Punjabi NM**, Babineau DC, Redline S, Mehra R. Obstructive sleep apnea and diurnal nondipping hemodynamic indices in patients at increased cardiovascular risk. *J Hypertens*. 2014;32(2):267-75
98. Tare A, Lane JM, Cade BE, Grant SF, Chen TH, **Punjabi NM**, Lauderdale DS, Zee PC, Gharib SA, Gottlieb DJ, Scheer FA, Redline S, Saxena R. Sleep duration does not mediate or modify association of common genetic variants with type 2 diabetes. *Diabetologia*. 2014; 57(2):339-46.
99. Kudchadkar SR, Aljohani OA, **Punjabi NM**. Sleep of critically ill children in the pediatric intensive care unit: a systematic review. *Sleep Med Rev*. 2014; 18(2):103-10.
100. Querejeta Roca G, Redline S, **Punjabi N**, Claggett B, Ballantyne CM, Solomon SD, Shah AM. Sleep apnea is associated with subclinical myocardial injury in the community: The ARIC-SHHS study. *Am J Respir Crit Care Med*. 2013; 188(12):1460-5.
101. Rao MN, Blackwell T, Redline S, **Punjabi NM**, Barrett-Connor E, Neylan TC, Stone KL; Osteoporotic Fractures in Men (MrOS) Study Group. Association between sleep duration and 24-hour urine free cortisol in the MrOS Sleep Study. *PLoS One*. 2013;8(9):e75205
102. Polak J, Shimoda LA, Drager LF, Undem C, McHugh H, Polotsky VY, **Punjabi NM**. Intermittent hypoxia impairs glucose homeostasis in C57BL6/J mice: partial improvement with cessation of the exposure. *Sleep*. 2013; 36(10):1483-90

103. Lane JM, Tare A, Cade BE, Chen TH, **Punjabi NM**, Gottlieb DJ, Scheer FA, Redline S, Saxena R. Common variants in CLOCK are not associated with measures of sleep duration in people of European ancestry from the Sleep Heart Health Study. *Biol Psychiatry*. 2013; 74(12):e33-5
104. Ramanathan R, Kohli A, Ingaramo MC, Jain A, Leng SX, **Punjabi NM**, Walston JD, Fedarko NS. Serum chitotriosidase, a putative marker of chronically activated macrophages, increases with normal aging. *J Gerontol A Biol Sci Med Sci*. 2013
105. Powell R, Davidson D, Divers J, Manichaikul A, Carr JJ, Detrano R, Hoffman EA, Jiang R, Kronmal RA, Liu K, **Punjabi NM**, Shahar E, Watson KE, Rotter JI, Taylor KD, Rich SS, Barr RG. Genetic ancestry and the relationship of cigarette smoking to lung function and per cent emphysema in four race/ethnic groups: a cross-sectional study. *Thorax*. 2013; 68(7):634-42.
106. Langrock R, Swihart BJ, Caffo BS, **Punjabi NM**, Crainiceanu CM. Combining hidden Markov models for comparing the dynamics of multiple sleep electroencephalograms. *Stat Med*. 2013.
107. Seif F, Patel SR, Walia H, Rueschman M, Bhatt DL, Gottlieb DJ, Lewis EF, Patil SP, **Punjabi NM**, Babineau DC, Redline S, Mehra R. Association between obstructive sleep apnoea severity and endothelial dysfunction in an increased background of cardiovascular burden. *J Sleep Res*. 2013; 22(4):443-51.
108. Ferri R, Manconi M, Aricò D, **Punjabi NM**, Zucconi M. Experimentally induced arousals do not elicit periodic leg motor activity during sleep in normal subjects. *Sleep Med*. 2013; 14(1):85-90.
109. Kahn JM, Palmer SM, Spruit MA, **Punjabi NM**, Sutherland ER. Clinical year in review I: quality improvement for pulmonary and critical care medicine, lung transplantation, rehabilitation for pulmonary and critically ill patients, and sleep medicine. *Proc Am Thorac Soc*. 2012; 9(4):183-9.
110. Spira AP, Covinsky K, Rebok GW, **Punjabi NM**, Stone KL, Hillier TA, Ensrud KE, Yaffe K. Poor sleep quality and functional decline in older women. *J Am Geriatr Soc*. 2012; 60(6):1092-8
111. Aurora RN, Crainiceanu C, Caffo B, **Punjabi NM**. Sleep-disordered breathing and caffeine consumption: results of a community-based study. *Chest* 2012; 142(3):631-8.
112. Brown MA, Goodwin JL, Silva GE, Behari A, Newman AB, **Punjabi NM**, Resnick HE, Robbins JA, Quan SF. The Impact of Sleep-Disordered Breathing on Body Mass Index (BMI): The Sleep Heart Health Study (SHHS). *Southwest J Pulm Crit Care*. 2011; 3:159-168.
113. Swihart BJ, Caffo BS, Crainiceanu CM, **Punjabi NM**. Mixed effect Poisson log-linear models for clinical and epidemiological sleep hypnogram data. *Stat Med*. 2012; 31(9):855-70
114. Pogach MS, **Punjabi NM**, Thomas N, Thomas RJ. Electrocardiogram-based sleep spectrogram measures of sleep stability and glucose disposal in sleep disordered breathing. *Sleep*. 2012; 35(1):139-48.
115. Aurora RN, Caffo BS, Crainiceanu CM, **Punjabi NM**. Correlating Subjective and Objective Sleepiness: Revisiting the Association Using Survival Analysis. *Sleep*. 2011; 34(12):1707-14.
116. Crainiceanu CM, Caffo BS, Luo S, Zipunnikov V, **Punjabi NM**. Population value decomposition, a framework for the analysis of images. *Journal of the American Statistical Association*. 2011; 106(495):775-790
117. Liu Y, Patel S, Nibbe R, Maxwell S, Chowdhury SA, Koyuturk M, Zhu X, Larkin EK, Buxbaum SG, **Punjabi NM**, Gharib SA, Redline S, Chance MR. Systems biology analyses of gene expression and genome wide association study data in obstructive sleep apnea. *Pac Symp Biocomput*. 2011:14-25.

118. Laffan A, Caffo B, Swihart B, and **Punjabi NM**. Utility of sleep stage transitions in assessing sleep continuity. *Sleep*. 2010; 33(12):1681-6.
119. Caffo B, Diener-West M, **Punjabi NM**, Samet J. A novel approach to prediction of mild sleep disorders in a population-based sample: the Sleep Heart Health Study. *Sleep*. 2010; 33(12):1641-8.
120. Swihart BJ, Caffo B, James BD, Strand M, Schwartz BS, **Punjabi NM**. Lasagna plots: a saucy alternative to spaghetti plots. *Epidemiology*. 2010; 21(5):621-5.
121. Gottlieb DJ, Yenokyan G, Newman AB, O'Connor GT, **Punjabi NM**, Quan SF, Redline S, Resnick HE, Tong EK, Diener-West M, Shahar E. Prospective study of obstructive sleep apnea and incident coronary heart disease and heart failure: the sleep heart health study. *Circulation*. 2010; 122(4):352-60.
122. Spencer ME, Jain A, Matteini A, Beamer BA, Wang NY, Leng SX, **Punjabi NM**, Walston JD, Fedarko NS. Serum Levels of the Immune Activation Marker Neopterin Change With Age and Gender and Are Modified by Race, BMI, and Percentage of Body Fat. *J Gerontol A Biol Sci Med Sci*. 2010; 65(8):858-65.
123. Redline S, Yenokyan G, Gottlieb DJ, Shahar E, O'Connor GT, Resnick HE, Diener-West M, Sanders MH, Wolf PA, Geraghty EM, Ali T, Lebowitz M, **Punjabi NM**. Obstructive Sleep Apnea Hypopnea and Incident Stroke: The Sleep Heart Health Study. *Am J Respir Crit Care Med*. 2010; 182(2): 269-77.
124. Chami AH, Baldwin CM, Silverman A, Zhang Y, Rapoport D, **Punjabi NM**, Gottlieb DJ. Sleepiness, Quality of Life and Sleep Maintenance in REM vs NREM Sleep-Disordered Breathing. *Am J Respir Crit Care Med*. 2010; 181(9):997-1002.
125. Ferri R, Drago V, Aricò D, Bruni O, Remington RW, Stamatakis K, **Punjabi NM**. The effects of experimental sleep fragmentation on cognitive processing. *Sleep Medicine*. 2010; 11(4):378-85
126. Manconi M, Ferri R, Sagrada C, **Punjabi NM**, Tettamanzi E, Zucconi M, Oldani A, Castronovo V, Ferini-Strambi L. Measuring the error in sleep estimation in normal subjects and in patients with insomnia. *J Sleep Res*. 2010; 19(3):478-86.
127. Stamatakis KA, **Punjabi NM**. Effects of sleep fragmentation on glucose metabolism in normal subjects. *Chest*. 2010; 137(1): 95-101.
128. Hancock DB, Eijgelsheim M, Wilk JB, Gharib SA, Loehr LR, Marcianti KD, Franceschini N, van Durme YM, Chen TH, Barr RG, Schabath MB, Couper DJ, Brusselle GG, Psaty BM, van Duijn CM, Rotter JI, Uitterlinden AG, Hofman A, **Punjabi NM**, Rivadeneira F, Morrison AC, Enright PL, North KE, Heckbert SR, Lumley T, Stricker BH, O'Connor GT, London SJ. Meta-analyses of genome-wide association studies identify multiple loci associated with pulmonary function. *Nat Genet*. 2010; 42(1): 45-52.
129. Budhiraja R, Quan SF, **Punjabi NM**, Drake CL, Dickman R, Fass R. Power spectral analysis of the sleep electroencephalogram in heartburn patients with or without gastroesophageal reflux disease: a feasibility study. *J Clin Gastroentero*. 2010; 44(2): 91-6.
130. **Punjabi NM**. Do sleep disorders and associated treatments impact glucose metabolism?. *Drugs*. 2009; 69 Suppl 2:13-27.
131. Monahan K, Storfer-Isser A, Mehra R, Shahar E, Mittleman M, Rottman J, Punjabi N, Sanders M, Quan SF, Resnick H, Redline S. Triggering of nocturnal arrhythmias by sleep-disordered breathing events. *J Am Coll Cardiol*. 2009; 54(19): 1797-804.

132. Caffo BS, Swihart B, Laffan A, Crainiceanu CM, **Punjabi NM**. An Overview of Observational Sleep Research with Application to Sleep Transitioning. *Chance*. 22 (1), 10-15, 2009.
133. Crainiceanu CM, Caffo BS, Di C, **Punjabi NM**. Nonparametric Signal Extraction and Measurement Error in the Analysis of Electroencephalographic Data. *J Am Stat Assoc*. 2009; 104(486): 541-555.
134. Gottlieb JD, Schwartz AR, Marshall J, Ouyang P, Kern L, Shetty V, Trois M, **Punjabi NM**, Brown C, Najjar SS, Gottlieb SS. Hypoxia, not the frequency of sleep apnea, induces acute hemodynamic stress in patients with chronic heart failure. *J Am Coll Cardiol*. 2009; 54(18): 1706-12.
135. **Punjabi NM**, Caffo BS, Goodwin JL, Gottlieb DJ, Newman AB, O'Connor GT, Rapoport DM, Redline S, Resnick HE, Robbins JA, Shahar E, Unruh ML, Samet JM. Sleep-disordered breathing and mortality: a prospective cohort study. *PLoS Med*. 2009; 6(8): e1000132.
136. Di C, Crainiceanu CM, Caffo BS, **Punjabi NM**. Multilevel Functional Principal Component Analysis. *The Annals of Applied Statistics*. 2009; 3(1): 458-488.
137. Louis M, **Punjabi NM**. Effects of Acute Intermittent Hypoxia on Glucose Metabolism in Awake Health Volunteers. *J Appl Physiol*. 2009;106(5):1538-44
138. **Punjabi NM**, Beamer BA. Alterations in Glucose Disposal in Sleep-disordered Breathing. *Am J Respir Crit Care Med*. 2009; 179(3): 235-40.
139. **Punjabi NM**. The epidemiology of adult obstructive sleep apnea. *Proc Am Thorac Soc*. 2008; 5(2): 136-43.
140. Swihart BJ, Caffo B, Bandeen-Roche K, **Punjabi NM**. Characterizing sleep structure using the hypnogram. *J Clin Sleep Med*. 2008; 4(4): 349-55.
141. Stamatakis K, Sanders MH, Caffo B, Resnick HE, Gottlieb DJ, Mehra R, **Punjabi NM**. Fasting glycemia in sleep disordered breathing: lowering the threshold on oxyhemoglobin desaturation. *Sleep*. 2008; 31(7): 1018-24.
142. Unruh ML, Sanders MH, Redline S, Piraino BM, Umans JG, Chami H, Budhiraja R, **Punjabi NM**, Buysse D, Newman AB. Subjective and objective sleep quality in patients on conventional thrice-weekly hemodialysis: comparison with matched controls from the sleep heart health study. *Am J Kidney Dis*. 2008; 52(2): 305-13.
143. Shaw JE, **Punjabi NM**, Wilding JP, Alberti KG, Zimmet PZ; International Diabetes Federation Taskforce on Epidemiology and Prevention. Sleep-disordered breathing and type 2 diabetes: a report from the International Diabetes Federation Taskforce on Epidemiology and Prevention. *Diabetes Res Clin Pract*. 2008; 81(1): 2-12.
144. Kirkness JP, Schwartz AR, Schneider H, **Punjabi NM**, Maly JJ, Laffan AM, McGinley BM, Magnuson T, Schweitzer M, Smith PL, Patil SP. Contribution of male sex, age, and obesity to mechanical instability of the upper airway during sleep. *J Appl Physiol*. 2008; 104(6): 1618-24.
145. **Punjabi NM**, Newman A, Young T, Resnick HE, Sanders M. Sleep-disordered Breathing and Cardiovascular Disease: An Outcome-based Definition of Hypopneas. *Am J Respir Crit Care Med*. 2008; 177(10): 1150-5.
146. Seicean S, Kirchner HL, Gottlieb DJ, **Punjabi NM**, Resnick H, Sanders M, Budhiraja R, Singer M, Redline S. Sleep-disordered Breathing and impaired glucose metabolism in normal weight and overweight/obese Individuals: The Sleep Heart Health Study. *Diabetes Care*. 2008 31(5):1001-6

147. Yeh HC, **Punjabi NM**, Wang NY, Pankow JS, Duncan BB, Cox CE, Selvin E, Brancati FL. Cross-Sectional and Prospective Study of Lung Function in Adults with Type 2 Diabetes Mellitus: The Atherosclerosis Risk in Communities (ARIC) Study. *Diabetes Care*. 2008; 31(4): 741-6
148. Burke CK, Peirce JM, Kidorf MS, Neubauer D, **Punjabi NM**, Stoller KB, Hursh S, Brooner RK. Sleep problems reported by patients entering opioid agonist treatment. *J Subst Abuse Treat*. 2008; 35(3): 328-33.
149. Zhang L, Samet J, Caffo B, Bankman I, **Punjabi NM**. Power Spectral Analysis of Electroencephalographic Activity during Sleep in Cigarette Smokers. *Chest*. 2008; 133(2): 427-32.
150. Wattanakit K, Boland L, **Punjabi NM**, Shahar E. Relation of sleep-disordered breathing to carotid plaque and intima-media thickness. *Atherosclerosis*. 2008; 197(1): 125-31.
151. **Punjabi NM**, Beamer B, Jain A, Spencer ME, Fedarko N. Elevated Levels of neopterin in sleep-disordered breathing. *Chest*. 2007; 132(4): 1124-30.
152. Aurora RN and **Punjabi NM**. Sleep apnea and metabolic dysfunction: Cause or Co-relation. *Sleep Med Clin*. 2007; 2(2): 237-250.
153. **Punjabi NM**, Beamer B. C-reactive protein is associated with sleep-disordered breathing independent of adiposity. *Sleep*. 2007; 30(1): 29-34.
154. Unruh ML, Sanders MH, Redline S, Piraino BM, Umans JG, Hammond TC, Sharief I, **Punjabi NM**, Newman AB. Sleep apnea in patients on conventional thrice-weekly hemodialysis: comparison with matched controls from the Sleep Heart Health Study. *J Am Soc Nephrol*. 2006; 17(12): 3503-9.
155. Gottlieb DJ, Redline S, Nieto FJ, Baldwin CM, Newman AB, Resnick HE, **Punjabi NM**. Association of usual sleep duration with hypertension: the Sleep Heart Health Study. *Sleep*. 2006; 29(8): 1009-14.
156. Zhang L, Samet J, Caffo B, **Punjabi NM**. Cigarette smoking and nocturnal sleep architecture. *Am J Epidemiol*. 2006; 164(6): 529-37.
157. Stierer T, **Punjabi NM**. Demographics and diagnosis of obstructive sleep apnea. *Anesthesiol Clin North America*. 2005: 405-20.
158. Li J, Thorne LN, **Punjabi NM**, Sun CK, Schwartz AR, Smith PL, Marino RL, Rodriguez A, Hubbard WC, O'Donnell CP, Polotsky VY. Intermittent hypoxia induces hyperlipidemia in lean mice. *Circ Res*. 2005; 97(7): 698-706.
159. Schanen JG, Iribarren C, Shahar E, **Punjabi NM**, Rich SS, Sorlie PD, Folsom AR. Asthma and incident cardiovascular disease: the Atherosclerosis Risk in Communities Study. *Thorax*. 2005; 60(8): 633-8.
160. Yeh HC, **Punjabi NM**, Wang NY, Pankow JS, Duncan BB, Brancati FL. Vital capacity as a predictor of incident type 2 diabetes: the Atherosclerosis Risk in Communities study. *Diabetes Care*. 2005; 28(6): 1472-9.
161. Gottlieb, DJ, **Punjabi NM**, Newman AB, Resnick HE, Redline S, Baldwin CM, Nieto FJ. Association of sleep time is associated with diabetes mellitus and impaired glucose tolerance. *Arch Intern Med*. 2005; 165(8): 863-7.
162. Simpson CF, **Punjabi NM**, Wolfenden L, Shardell M, Shade DM, Fried LP. Relationship between lung function and physical performance. *J Gerontol A Biol Sci Med Sci*. 2005; 60(3): 350-4.

163. **Punjabi NM**, Polotsky VY. Disorders of glucose metabolism in sleep apnea. *J Appl Physiol*. 2005; 99(5): 1998-2007.
164. **Punjabi NM**, Shahar E, Redline S, Gottlieb DJ, Givelber R, Resnick HE. Sleep-disordered breathing, glucose intolerance, and insulin resistance: The Sleep Heart Health Study. *Am J Epidemiol*. 2004; 160(6): 521-30.
165. Breugelmans JG, Ford DE, Smith PL, **Punjabi NM**. Differences in patient and bed-partner assessed quality of life in sleep-disordered breathing. *Am J Respir Crit Care Med*. 2004; 170(5):547-52.
166. Patil S, **Punjabi NM**, Schneider H, O' Donnell CP, Smith PL, Schwartz AR. A simplified method for measuring critical pressures during sleep in the clinical setting. *Am J Respir Crit Care Med*. 2004; 170(1): 86-93.
167. Boland LL, Shahar E, Wong TY, Klein R, **Punjabi NM**, Robbins JA, Newman AB. Is sleep-disordered breathing associated with the presence of retinal microvascular abnormalities? *Sleep*. 2004; 27(3): 467-73.
168. **Punjabi NM**, Bandeen-Roche K, Young TB. Predictors of objective sleep tendency in the general population. *Sleep*. 2003; 26(6): 678-683.
169. Polotsky VY, Li J, **Punjabi NM**, Rubin AE, Smith PL, Schwartz AR, O'Donnell CP. Intermittent hypoxia increases insulin resistance in genetically obese mice. *J Physiol*. 2003; 552 (Pt 1): 253-64.
170. **Punjabi NM**, Ahmed MM, Polotsky VY, Beamer BA, O'Donnell CP. Sleep-disordered Breathing and Insulin Resistance. *Respir Physiol Neurobiol*. 2003; 136(2-3): 167-78.
171. **Punjabi NM**, Shade D, Patel A, Wise RA. Measurement variability in single breathing diffusing capacity of the lung. *Chest*. 2003; 123(4): 1082-1089.
172. Resnick HE, Redline S, Shahar E, Gilpin A, Newman A, Walter R, Ewy GA, Howard BV, **Punjabi NM**. Diabetes and sleep disturbances: findings from the Sleep Heart Health Study. *Diabetes Care*. 2003; 26(3): 702-709.
173. Sanders MH, Newman AB, Haggerty CL, Redline S, Lebowitz M, Samet J, O'Connor GT, **Punjabi NM**, Shahar E. Sleep and sleep-disordered breathing in adults with predominantly mild obstructive airway disease. *Am J Respir Crit Care Med*. 2003; 167(1): 7-14.
174. Rose P, **Punjabi NM**, Pearse D. Treatment of right heart thromboemboli. *Chest*. 2002; 121: 806-814.
175. **Punjabi NM**, Bandeen-Roche K, Marx JJ, Neubauer DN, Smith PL, Schwartz AR. The association between daytime sleepiness and sleep-disordered breathing in NREM and REM sleep. *Sleep*. 2002; 25(3): 1-9.
176. **Punjabi NM**, Sorkin JD, Katzel KI, Goldberg AP, Schwartz AR, Smith PL. Sleep-disordered breathing and insulin resistance in middle-aged and overweight men. *Am J Resp Crit Care Med*. 2002; 165: 677-682.
177. Boudewyns A, **Punjabi NM**, Van de Heyning P, De Backer W, O'Donnell CP, Schneider H, Smith PL, Schwartz AR. An abbreviated method for assessing upper airway function in obstructive sleep apnea. *Chest*. 2000; 118(4): 1031-1041.
178. **Punjabi NM**, Welch D, Strohl KP. Sleep disorders in regional sleep centers: A national cooperative study. *Sleep*. 2000; 23(4): 471-80.

179. **Punjabi NM**. Analysis of Failure Time Data: An Introduction of Survival Analysis. *Resp Care*. 1999; 44(10): 1198-1202.
180. **Punjabi NM**, O'Hearn DJ, Schwartz AR, Smith PL, Bandeen-Roche KJ. Modeling Hypersomnolence in Obstructive Sleep Apnea: A Novel Approach using Survival Analysis. *Am J Resp Crit Care Med*. 1999; 159: 1703-1709.
181. **Punjabi NM**, Shade D, Wise RA. Correction of single-breath helium lung volumes in patients with airflow obstruction. *Chest*. 1998; 114: 907-918.
182. Hershenson MB, Wylam ME, **Punjabi NM**, Umans JG, Schumaker PT, Mitchell RW, and Solway J. Exposure to immature rats to hyperoxia increases tracheal smooth muscle stress generation in vitro. *J Appl Physiol*. 1994; 76(2): 743-749.
183. Gaver DP, Solway J, **Punjabi NM**, Elad D, Grotberg JH, and Gavriely N. Gas dispersion in volume-cycled tube flow part II: tracer bolus experiments. *J Appl Physiol*. 1992; 72(1): 321-331.
184. Hershenson MB, Aghili S, **Punjabi NM**, Hernandez C, Ray DW, Garland A, Glagov S, and Solway J. Hyperoxia-induced airway hyperresponsiveness and remodeling in immature rats. *Am J Physiol*. 1992; 262 (Lung Cell. Mol. Physiol. 6); L263-269.

Book and Monographs Published (In Reverse Chronological Order)

1. Polak J, Beamer BA, **Punjabi NM**. Obstructive sleep apnea and glucose metabolism. Ed: Pack A. *Sleep Apnea: Pathogenesis, Diagnosis and Treatment* 2nd edition. Informa Healthcare 2011. pp 300-316.
2. Polotsky VY, Jun CC, **Punjabi NM**. Obstructive sleep apnea and metabolic dysfunction. Eds: Kryger MH, Roth T, and Dement WC. *Principles and Practice of Sleep Medicine* 5th edition. W.B. Saunders 2011. pp 1331-1338.
3. **Punjabi NM**. Eds: *Sleep Apnea and Alterations in Glucose Metabolism*. Eds: Bradley TB and Floras JS. *Sleep Apnea: Implications in Cardiovascular and Cerebrovascular Disease*. Series: Lung Biology in Health and Disease. CRC Press 2009. pp 93-109.
4. **Punjabi NM**. Patient versus proxy ratings of quality of life. Eds: Verster JC, Pandi-Perumal SR and Streiner DL. *Sleep and Quality of Life in Clinical Medicine*. Humana Press 2008. pp 11-17.
5. Stamatakis KA, **Punjabi NM**. Endocrine Function and Glucose Metabolism. Ed: Kushida C. *Obstructive Sleep Apnea: Pathophysiology, Comorbidities and Consequences*. New York: Informa Healthcare. 2007. pp. 337-354.
6. **Punjabi NM** and Beamer BA. Sleep apnea and glucose metabolism. Eds: Kryger MH, Roth T, and Dement WC. *Principles and Practice of Sleep Medicine* 4th edition. W.B. Saunders 2005. pp 1034-1042.

Other Works, Publications and Abstracts:

Editorials (In Reverse Chronological Order)

1. Abreu A, Punjabi NM. How Many Nights are Really Needed to Diagnose Obstructive Sleep Apnea? *Am J Respir Crit Care Med*. 2022
2. Punjabi NM, Gottlieb DJ. COUNTERPOINT: Should Asymptomatic OSA Be Treated in Patients With Significant Cardiovascular Disease? *No. Chest*. 2022 Mar;161(3):607-611.

3. Punjabi NM, Gottlieb DJ. Rebuttal From Drs Punjabi and Gottlieb. *Chest*. 2022 Mar;161(3):612-613.
4. Benefits of Treating Obstructive Sleep Apnea-Reply. Gottlieb DJ, **Punjabi NM**. *JAMA*. 2020 Sep 15;324(11):1110-1111.
5. Gaynanova I, Urbanek J, **Punjabi NM**. Corrections of Equations on Glycemic Variability and Quality of Glycemic Control. *Diabetes Technol Ther*. 2018 Apr;20(4):317
6. Taylor HA, **Punjabi NM**. Can We Breathe Easy If PAP Therapy Is Withheld? *Am J Bioeth*. 2017; 17(10):78-79.
7. Selvin E, Warren B, Matsushita K, **Punjabi NM**. Prediabetes definitions and clinical outcomes - Authors' reply. *Lancet Diabetes Endocrinol*. 2017; 5(2):94.
8. Bakker JP, Weng J, Wang R, Redline S, Punjabi NM, Patel SR. Reply: "Obstructive Sleep Apnea, Sleep Duration, and Fasting Glucose" and "The Impact of Obesity on the Association between Obstructive Sleep Apnea and Glucose Metabolism". *Am J Respir Crit Care Med*. 2016;193(5):580-1
9. Punjabi NM. Counterpoint: Is the AHI the best way to quantify the severity of sleep disordered breathing? No. *Chest* 2015. (In press)
10. **Punjabi NM**, Aurora RN, Patil SP. Home sleep testing for obstructive sleep apnea: one night is enough! *Chest* 2013; 143(2):291-4.
11. Mokhlesi B, **Punjabi NM**. "REM-related" obstructive sleep apnea: an epiphenomenon or a clinically important entity? *Sleep* 2012; 35(1):5-
12. McGinley B, **Punjabi NM**. Obesity, metabolic abnormalities, and asthma: establishing causal links. *Am J Respir Crit Care Med*. 2011; 183(4):424-5.
13. Laffan AM, **Punjabi NM**. Sleep: a nourisher in life's feast? *Sleep Med Rev* 2008; 12(4): 253-5.
14. Stamatakis KA, **Punjabi NM**. Long sleep duration: a risk to health or a marker of risk? *Sleep Med Rev* 2007; 11(5):337-9.
15. **Punjabi NM**. Improvement of metabolic function in sleep apnea: The power of positive pressure. *Am Rev Respir Crit Care Med*. 2004; 169(2):139-40.
16. Samet J, Nieto FJ, **Punjabi NM**. Sleep-disordered breathing and hypertension: More research is still needed. *Am Rev Respir Crit Care Med*. 2000; 161(5): 1409-11.
17. **Punjabi NM**, Haponik E. Ask about daytime sleepiness! *J Am Geriatr Soc* 2000; 48(2): 228-229.
18. Marx JJ, **Punjabi NM**, Schwartz AR. Preoperative Pulmonary Evaluation. *N Engl J Med* 1999; 341(8): 613.

Abstracts (In Reverse Chronological Order)

1. Li Q; Keenan BT; **Punjabi NM**; Maislin G; Kuna ST. The effects of diabetes on obstructive sleep apnea severity and progression: a propensity score analysis. *Sleep*. 2020; 43. 613; A234-A235
2. Koch AL; Putcha N; Woo H; Paulin LM; Barr R; Comellas AP; Cooper CB; Barjaktarevic I; Zeidler MR; Billings ME; Bowler RP; Baugh AD; Han MK; Kim V; Paine R; Dransfield MT; Krishnan JA; Peters SP; **Punjabi NM**; Woodruff P; Kaufman JD; Hansel NN. Ambient pollution exposure and sleep quality in spiromics. *American Journal of Respiratory And Critical Care Medicine*. 2020; 201. A6281

3. Raju S; McCormack MC; Patel SR; Kunisaki KM; Cho JH; D'Souza G; Wolinsky S; Brown TT; **Punjabi NM**. The combined influence of sleep disordered breathing and impaired diffusing capacity on nocturnal hypoxemic burden. *American Journal of Respiratory And Critical Care Medicine*. 2020; 201. A4708
4. Aurora R; **Punjabi NM**. Obstructive sleep apnea and postprandial glucose differences in type 2 diabetes mellitus. *American Journal of Respiratory And Critical Care Medicine*. 2020; 201. A2525
5. Damarla M; D'Alessio FR; Suresh K; Shimoda LA; **Punjabi NM**. Validation of a murine model of sleep disruption in critical illness. *American Journal of Respiratory And Critical Care Medicine*. 2020; 201. A4162
6. Kapp C; **Punjabi NM**. Performance of the richmond agitation and sedation scale (rass) at an academic tertiary care center. *American Journal of Respiratory And Critical Care Medicine*. 2020; 201. A3592
7. Aurora RN; **Punjabi NM**. Subjective sleepiness and prevalent hypertension in adults with type 2 diabetes mellitus and obstructive sleep apnea. *Sleep*. 2019; 42. 489
8. Samtani N; Haigney M; **Punjabi NM**. Differences in ventricular repolarization between nrem and rem sleep. *Sleep*. 2019; 42. 117
9. Sofer T; Li RT; Joehanes R; Lin HH; Gower A; **Punjabi N**; Mehra R; Patel S; Quan S; Liu YM; Gharib S; Levy D; Spira A; Redline S; Gottlieb D. Lower oxygen saturation during sleep is associated with reduced expressions of cd1d and rab20 that is potentially reversed by cpap therapy. *Sleep*. 2019; 42. 21
10. Aurora RN; Blase A; Benjafield A; O'Connor CM; **Punjabi NM**. Evolution of sleep-disordered breathing after discharge in patients with acute decompensated heart failure. *American Journal of Respiratory And Critical Care Medicine*. 2019; 199. A2597
11. Kapp C; **Punjabi NM**. Using a sedation monitor to assess sleep. *American Journal of Respiratory And Critical Care Medicine*. 2019; 199. A3884
12. Kapp C; **Punjabi NM**. Rethinking sedation monitoring in the intensive care unit. *American Journal of Respiratory And Critical Care Medicine*. 2019; 199. A6675
13. Kim J; Azarbarzin A; Wang R; Djonlagic IE; **Punjabi NM**; Zee PC; Koo BB; Soliman EZ; Lederer DJ; Younes MK; Redline SS. Association of novel measures of sleep disturbances and blood pressure: the mesa study. *American Journal of Respiratory And Critical Care Medicine*. 2019; 199. A7270
14. Koch AL; **Punjabi NM**. Lung function and subjective sleep disturbance in a general community sample. *American Journal of Respiratory And Critical Care Medicine*. 2019; 199. A1373
15. Ngo D; Peterson B; Montanez R; Sofer T; Morningstar J; Shi X; Gottlieb DJ; Lewis E; Mehra R; Patel SR; **Punjabi NM**; Quan SF; Gerszten R; Redline SS. Metabolomic analysis of obstructive sleep apnea traits. *American Journal of Respiratory And Critical Care Medicine*. 2019; 199. A7339
16. Ding N; Salameh M; Selvin E; **Punjabi NM**; Heiss GM; Matsushita K. Lung function and risk of peripheral artery disease: the atherosclerosis risk in communities study. *Circulation*. 2019; 140. A14455
17. Heravi AS; Etzkorn L; Urbanek J; Crainiceanu C; **Punjabi NM**; Ashikaga H; Brown TT; Budoff MJ; D'Souza A; Magnani JW; Palella FJ; Altekrose S; Berger RD; Wu KC; Post WS. Hiv infection is associated with higher repolarization lability in the multicenter aids cohort study (macs). *Circulation*. 2019; 140. A13601

18. Mathews L; Ding N; Loehr LR; Shin JI; **Punjabi NM**; Bertoni AG; Crews DC; Rosamond WD; Ndumele CE; Matsushita K; Chang P. Racial differences in utilization, trends, and prognostic impact of guideline-directed medical therapy for hfref in the community: the atherosclerosis risk in communities (aric) surveillance study. *Circulation*. 2019; 140. A12534
19. Lin TK; Wendelken D; O'Rourke B; Jones SR; **Punjabi NM**; DeMazumder D. Phenotyping by ecg dynamics during sleep predicts cardiovascular disease risk factors in a multicenter study of asymptomatic middle-aged community adults. *Circulation Research*. 2019; 125. 453
20. Lindenfeld J; Oldenburg O; Whellan D; Fiuzat M; Punjabi N; Kitzman D; Blase A; Benjafield A; O'Connor C. Global rank endpoint using nt-probnp versus 6 minute walk distance in hf patients: analysis from the cat-hf trial. *Journal of The American College of Cardiology*. 2018; 71 (11). A795; 795-795
21. Logan J; Lobo JM; Sohn MW; Kang H; Redline S; **Punjabi NM**; Lin GM; Lima JA; Kwon Y. Sleep duration and aortic stiffness: the multi-ethnic study of atherosclerosis. *Stroke*. 2018; 49. WP378
22. Aurora RN; McGuffey E; Crainiceanu C; **Punjabi NM**. Sleep-disordered breathing (sdb) during rem sleep: sex-specific predictors of disease evolution. *Sleep*. 2018; 41. 467; A176-A177
23. Broussard JL; Aurora RN; Crainiceanu C; **Punjabi NM**. Race difference in the association between habitual sleep duration and all-cause mortality. *Sleep*. 2018; 41. 891; A331-A331
24. George J; Wang L; Nawabit R; Kaffashi F; Walia HK; **Punjabi NM**; Patel SR; Gottlieb DJ; Quan SF; Loparo K; Redline S; Mehra R. Impact of cpap versus supplemental oxygen on cardiac electrophysiological indices in obstructive sleep apnea: the heartbeat study. *Sleep*. 2018; 41. 444; A168-A168
25. Javed F; Armitstead J; Benjafield A; Blase A; O'Connor C; Aurora R; **Punjabi N**. Does circulation time and time-to-peak flow in patients with cheyne-stoke respiration and heart failure correlate with adverse health outcomes?. *Sleep*. 2018; 41. 468; A177-A177
26. Kwon Y; Mariani S; Gadi S; Weng J; Jacobs DR; Punjabi N; Redline S. Characterization of lung to finger circulation time: the multi-ethnic study of atherosclerosis. *Sleep*. 2018; 41. 450; A170-A171
27. **Punjabi NM**; Kaplan PW; Margolick J; Aurora RN. A simplified bipolar frontal montage for recording and staging sleep.. *Sleep*. 2018; 41. 319; A122-A122
28. Castelnuovo A; Ferri R; **Punjabi N**; Castronovo V; Garbazza C; Zucconi M; Ferini-Strambi L; Manconi M. The paradoxes of sleep state misperception and of paradoxical insomnia: a search for an evidence-based definition. *Journal of Sleep Research*. 2018; 27. P719
29. Benjafield A; Lindenfeld J; Oldenburg O; Whellan D; Fiuzat M; **Punjabi N**; Anstrom K; Blase A; Woehrle H; O'Connor C. Surrogate endpoints and the differential response to asv for sleep apnea in hfref versus hfpef in the cat-hf trial. *Journal of The American College of Cardiology*. 2017; 69 (11). 1121-250; 708-708
30. Oldenburg O; Tueroff A; Thiem U; Fox H; Spiesshoefer J; Bitter T; Tamisier R; **Punjabi N**; Horstkotte D. Sleep duration and quality in heart failure patients. *Journal of The American College of Cardiology*. 2017; 69 (11). 1294-279; 944-944
31. Bertrand SJ; Kudchadkar SR; Zhang Z; **Punjabi NM**; Kannan S. Long-term behavioral consequences of neonatal sleep fragmentation. *Sleep*. 2017; 40. 37; A14-A15
32. **Punjabi NM**; Patil S; Aurora RN. Utility of type 3 portable monitoring for diagnosis of sleep apnea in acute decompensated heart failure. *Sleep*. 2017; 40. 490; A183-A183

33. Aurora RN; Kim J; Crainiceanu C; **Punjabi NM**. Rem-related sleep apnea and all-cause mortality. *American Journal of Respiratory And Critical Care Medicine*. 2017; 195. A2929
34. Aurora RN; **Punjabi NM**. The association between nocturnal hypoxemia, subjective sleepiness, and glycemic control in patients with type 2 diabetes mellitus. *American Journal of Respiratory And Critical Care Medicine*. 2017; 195. A4530
35. Javaheri S; Zhao YY; Punjabi N; Quan S; Gottlieb DJ; Redline S. Slow wave sleep and incident hypertension. *American Journal of Respiratory And Critical Care Medicine*. 2016; 193. A4198
36. Kudchadkar SR; Shata N; Aljohani OA; AlHarbi A; Jastaniah E; Nadkarni A; Johns J; Crainiceanu C; **Punjabi N**. Day-night activity rhythms are disrupted in children admitted to the pediatric icu after major surgery. *American Journal of Respiratory And Critical Care Medicine*. 2016; 193. A3096
37. Kudchadkar SR; Bertrand SJ; Zhang Z; **Punjabi N**; Kannan S. Neuroinflammation following sleep fragmentation in a pediatric model. *American Journal of Respiratory And Critical Care Medicine*. 2016; 193. A2857
38. **Punjabi N**; Whellan D; Fiuzat M; Benjafield A; Woehrle H; Anstrom KJ; Blase A; Lindenfeld J; Oldenburg O; O'Connor C. Cardiovascular improvements with adaptive servo-ventilation in heart failure: insights from the cat-hf trial. *American Journal of Respiratory And Critical Care Medicine*. 2016; 193. A4210
39. **Punjabi N**; Oldenburg O; Whellan D; Fiuzat M; Lindenfeld J; Benjafield A; Blase A; Woehrle H; O'Connor C. Prevalence of sleep disordered breathing in an acute decompensated heart failure population. *Chest*. 2016; 150 (4). 1263A-1263A
40. Geovanini GR; Jenny NS; Wang R; Shea SJ; Kaufman JD; Allison M; **Punjabi NM**; Tracy R; Libby P; Redline S. Obstructive sleep apnea associates with elevated leukocytes and markers of inflammation in the multi-ethnic study of atherosclerosis (mesa). *Circulation*. 2016; 134. 13147
41. Neeland IJ; Ayers C; Tzoulaki I; Karaman I; Boulange C; Vaidya D; **Punjabi N**; Allison M; Herrington D; Greenland P. Metabolite profiles associated with variation in visceral adiposity: the multi-ethnic study of atherosclerosis. *Circulation*. 2016; 134. 12037
42. Daubert M; Oldenburg O; Whellan D; Tasissa G; Woehrle H; **Punjabi N**; Anstrom K; Blase A; Benjafield A; Lindenfeld J; Fiuzat M; O'Connor C. Treatment of sleep-disordered breathing and cardiac remodeling in heart failure with reduced ejection fraction: insights from the cat-hf trial. *Circulation*. 2016; 134. 17996
43. Oldenburg O; Whellan D; Lindenfeld J; Fiuzat M; **Punjabi N**; Benjafield A; Blase A; Woehrle H; O'Connor C. Prevalence of sleep disordered breathing and mortality follow-up in an acute decompensated heart failure population. *Circulation*. 2016; 134. 19206
44. Moon KK; Shimoda LA; **Punjabi NM**. Effects of intermittent hypoxia (ih) on glucose metabolism and in vivo calcium signaling in hepatocytes. *American Journal of Respiratory And Critical Care Medicine*. 2015; 191. A5150
45. Putcha N; Aurora RN; **Punjabi NM**. Lung function and sleep disordered breathing are associated with mortality. *American Journal of Respiratory And Critical Care Medicine*. 2015; 191. A2407
46. Lewis EF; Wang R; Quan S; Gottlieb D; Bhatt D; Blumenthal R; Mehra R; **Punjabi N**; Patel S; Weng J; Redline S. Impact of treatment modalities on health status in patients with obstructive sleep apnea. *Journal of The American College of Cardiology*. 2014; 63 (12). 1120-322; A1536-A1536

47. Bakker JP; Weng J; Wang R; Redline S; **Punjabi NM**; Patel SR. The role of ethnicity on the association between sleep-disordered breathing and glucose tolerance: the multi-ethnic study of atherosclerosis (mesa). *American Journal of Respiratory And Critical Care Medicine*. 2014; 189. A6359
48. Bertisch S; Gottlieb DJ; Quan SF; **Punjabi NM**; Redline SS. Obstructive sleep apnea and incident stroke: sleep heart health 14-year follow-up study. *American Journal of Respiratory And Critical Care Medicine*. 2014; 189. A6361
49. Chandra S; Parikh M; Kawut SM; Lo Cascio CM; Kalhan R; Hoffman EA; Owens RL; **Punjabi NM**; Redline SS; Barr RG. Chronic obstructive pulmonary disease and thoracic hyperexpansion are associated with a lower prevalence of obstructive sleep apnea: the mesa-lung and mesa-sleep studies. *American Journal of Respiratory And Critical Care Medicine*. 2014; 189. A5337
50. Moon KK; Shimoda L; **Punjabi NM**; Baksh SS. Calcium signaling and glucose output in hepatocytes after in vivo exposure to intermittent hypoxia. *American Journal of Respiratory And Critical Care Medicine*. 2014; 189. A2217
51. Polak J; Weiszenstein M; Shimoda L; **Punjabi NM**. Acipimox ameliorates insulin resistance and glucose intolerance in a mouse model of obstructive sleep apnea. *American Journal of Respiratory And Critical Care Medicine*. 2014; 189. A6676
52. Tung P; Levitzky YS; Wang R; Quan SF; Gottlieb DJ; Reuschman M; **Punjabi NM**; Bertisch S; Benjamin EJ; Redline S. Obstructive and central sleep apnea and risk of incident atrial fibrillation. *Circulation*. 2014; 130. 17143
53. Spira AP; Covinsky K; Rebok G; **Punjabi N**; Redline S; Stone KL; Yaffe K. Sleep-disordered breathing and functional decline in older women. *Gerontologist*. 2013; 53. 488
54. Polak J; **Punjabi NM**; Shimoda LA. Intermittent hypoxia-induced insulin resistance is ameliorated by endothelin-1 receptor type b antagonist. *Faseb Journal*. 2013; 27. 938.1
55. Cade BE; Weng J; Buxbaum S; Fulop T; Gottlieb DJ; Larkin EK; Lauderdale DS; Patel SR; **Punjabi NM**; Zee PC; Zhu X; Redline SS. A candidate gene and genome-wide association study of sleep fragmentation: the care consortium. *American Journal of Respiratory And Critical Care Medicine*. 2013; 187. A5930
56. Chami H; Gottlieb DJ; Shahar E; Redline SS; **Punjabi NM**. The association of sleep-disordered breathing in rem sleep with glucose intolerance and insulin resistance. *American Journal of Respiratory And Critical Care Medicine*. 2013; 187. A2380
57. Moon KK; **Punjabi NM**; Shimoda L. Calcium signaling in hepatocytes exposed to intermittent hypoxia. *American Journal of Respiratory And Critical Care Medicine*. 2013; 187. A2304
58. Polak J; Shimoda L; **Punjabi NM**. Intermittent hypoxia impairs glucose-stimulated c-peptide secretion and insulin clearance in healthy volunteers. *American Journal of Respiratory And Critical Care Medicine*. 2013; 187. A2378
59. Polak J; Shimoda L; **Punjabi NM**. Blockade of endothelin-1 receptor type b ameliorates glucose intolerance in a mouse model of sleep apnea. *American Journal of Respiratory And Critical Care Medicine*. 2013; 187. A2308
60. Polak J; Shimoda LA; Drager LF; Polotsky VY; **Punjabi NM**. A specific type of diabetes induced by intermittent hypoxia in a mouse model of sleep apnea. *Diabetes*. 2012; 61. 1890-P; A484-A484

61. **Punjabi NM**; Shaw J; Fulcher G; Naughton M; Cistulli P; Bergenstal RM; Zimmet P. Association between obstructive sleep apnea (osa) severity and glycemic control in patients with type 2 diabetes mellitus. *Diabetes*. 2012; 61. 838-P; A212-A213
62. Shah S; **Punjabi N**; Jain A; Fedarko N. Osteopontin, a marker of sleep disordered breathing in older individuals.. *Journal of The American Geriatrics Society*. 2012; 60. S93
63. Aurora R; Shaw J; Fulcher G; Naughton M; Cistulli P; Bergenstal RM; Zimmet P; **Punjabi NM**. Utility of the berlin questionnaire in identifying obstructive sleep apnea in patients with type 2 diabetes. *Sleep*. 2012; 35. 417; A145-A145
64. Roca GMQ; Redline S; **Punjabi NM**; Ballantyne C; Solomon SD; Shah AM. Sleep apnea is associated with elevated high sensitivity troponin t in an asymptomatic community dwelling cohort: data from the nhlbi aric-shhs study. *Circulation*. 2012; 126 (21). 14583
65. Spira AP; Covinsky K; Rebok G; **Punjabi N**; Stone KL; Hillier TA; Ensrud K; Yaffe K. Objectively measured sleep and functional decline in older women. *Gerontologist*. 2011; 51.
66. Spira AP; Covinsky K; Rebok G; Stone KL; Redline S; Punjabi N; Yaffe K. Objectively measured sleep fragmentation and nursing home placement in older women. *Gerontologist*. 2011; 51.
67. Akhouri RK; Aurora R; **Punjabi NM**. Caffeine consumption in sleep-disordered breathing (sdb): results of a community-based study. *Sleep*. 2011; 34. 415; A143-A144
68. Aurora RN; Shaw J; Fulcher G; Naughton M; Cistulli PA; Bergenstal RM; **Punjabi NM**. Excessive daytime sleepiness is associated with higher hba1c in type 2 diabetes: the glycosa study. *Sleep*. 2011; 34. 642; A222-A222
69. Chen T; Hek K; Eiriksdottir G; Gharib SA; Grabe H; Gudnason V; **Punjabi NM**; Tiemeier H; Watson N; Gottlieb DJ. A genome-wide association analysis of insomnia: the charge consortium. *Sleep*. 2011; 34. 493; A169-A170
70. Patil SP; **Punjabi NM**; Patel SR; Walia H; Mehra R; Chen T; Gottlieb DJ; Quan SF; Blumenthal R; Redline S. Evaluating for moderate-severe sleep disordered breathing in patients with at risk for coronary heart disease. *Sleep*. 2011; 34. 681; A235-A235
71. Polak J; Aurora RN; **Punjabi NM**. Habitual sleep duration and insulin resistance in a community sample of middle-aged and older adults. *Sleep*. 2011; 34. 755; A260-A260
72. Polak J; Studer-Rabeler K; Hussain MA; **Punjabi NM**; Shimoda LA. Technique for in vitro intermittent hypoxia exposure. *Faseb Journal*. 2011; 25.
73. Punjabi AN; Udem C; **Punjabi NM**; Sylvester JT; Shimoda LA. Intermittent hypoxia increases intracellular calcium concentration ([ca²⁺]_i) in human lung microvascular endothelial cells (hmvecs). *Faseb Journal*. 2011; 25.
74. Aurora RN; Polak J; **Punjabi NM**; Shimoda LA. Obstructive sleep apnea is associated with insulin resistance independent of visceral fat. *American Journal of Respiratory And Critical Care Medicine*. 2011; 183. A6075
75. Polak J; Shimoda LA; Drager LF; Polotsky VY; **Punjabi NM**. Intermittent hypoxia-induced impairment in glucose metabolism is not reversible with normoxia in mice. *American Journal of Respiratory And Critical Care Medicine*. 2011; 183. A2480
76. Polak J; Shimoda LA; Louis M; **Punjabi NM**. Endocrine and inflammatory changes induced by intermittent hypoxia in awake healthy volunteers. *American Journal of Respiratory And Critical Care Medicine*. 2011; 183. A2478

77. Seif F; Rueschman M; Bhatt DL; Gottlieb D; Lewis EF; Mehra R; Patil SP; **Punjabi NM**; Redline S; Patel SR. Endothelial dysfunction in obstructive sleep apnea. *American Journal of Respiratory And Critical Care Medicine*. 2011; 183. A2205
78. Aurora RN; **Punjabi NM**. Effects of smoking on sleep continuity. *Sleep*. 2010; 33. 1129; A377-A377
79. Patel SR; Goodloe R; Larkin EK; Gottlieb DJ; Li Y; Buxbaum S; **Punjabi NM**; Zee P; Zhu X; Redline S. Candidate gene analysis for obstructive sleep apnea. *Sleep*. 2010; 33. 353; A124-A124
80. Pogach M; **Punjabi NM**; Thomas NA; Thomas RJ. Electrocardiogram-based sleep spectrogram measures of sleep stability and glucose disposal in sleep disordered breathing. *Sleep*. 2010; 33. 861; A288-A288
81. Punjabi AN; **Punjabi NM**. Cigarette smoking and rate of sleep stage transitions. *Sleep*. 2010; 33. 1130; A377-A377
82. Hancock DB; Eijgelsheim M; Wilk J; Gharib SA; Loehr L; Marciante K; Franceschini N; van Durme YM; Chen TH; Barr RG; Schabath M; Couper D; Brusselle GG; Psaty B; van Duijn CM; Rotter JI; Uitterlinden A; Hofman A; **Punjabi NM**; Rivadeneira F; Morrison A; Enright P; North K; Heckbert S; Lumley T; Stricker B; O'Connor GT; London S. Genome-wide association studies from four cohorts reveal multiple novel loci related to pulmonary function. *American Journal of Respiratory And Critical Care Medicine*. 2010; 181. A5374
83. Aurora RN; **Punjabi NM**. Sleep disordered breathing (sdb) related changes in eeg power spectra. *Sleep*. 2009; 32. 696; A227-A227
84. Brown MA; Goodwin JL; Silva G; Behari A; Newman AB; **Punjabi NM**; Resnick HE; Robbins JA; Quan SF. Sleep-disordered breathing and weight gain: the sleep heart health study. *Sleep*. 2009; 32. 515; A170-A170
85. Laffan AM; Gottlieb DJ; Monahan KJ; Quan SF; Robbins JA; Samet JM; **Punjabi NM**. Sleep fragmentation predicts all-cause mortality in a cohort of middle aged and older adults. *Sleep*. 2009; 32. 363; A120-A121
86. Manconi M; Sagrada C; Ferri R; **Punjabi NM**; Zucconi M; Castronovo V; Oldani A; Ferini-Strambi L. Validation of a misperception index to measure the error in sleep estimation and identify paradoxical insomniacs. *Sleep*. 2009; 32. 855; A279-A279
87. Agarwal SK; Loehr L; Shahar E; Kitzman DW; Wood JL; **Punjabi N**; Heiss G. Lung function and incident hospitalized heart failure: the atherosclerosis risk in communities (aric) study. *Circulation*. 2009; 119 (10). E283
88. Budhiraja R; Quan SF; **Punjabi NM**; Drake CL; Fass SS; Fass R. Power spectral analysis of the sleep electroencephalogram in heartburn patients with or without erosive gastroesophageal reflux disease (gerd). *Sleep*. 2008; 31. 928; A305-A305
89. Laffan AM; Caffo B; Swihart B; **Punjabi NM**. Prevalent hypertension and sleep disruption in a cohort of middle aged and older adults. *Sleep*. 2008; 31. 601; A197-A198
90. Stamatakis KA; **Punjabi NM**. Electroencephalographic correlates of habitual sleep duration patterns in a community sample: the sleep heart health study. *Sleep*. 2008; 31. 413; A137-A137
91. Spencer M; Jain A; **Punjabi N**; Fedarko N. The immune mediator neopterin changes with age, gender, bmi, and race.. *Journal of The American Geriatrics Society*. 2007; 55 (4). S113

92. Aurora R; Neubauer D; Punjabi N. Correlation between subjective sleep tendency and objective sleep latency. *Sleep*. 2007; 30. 560; A189-A190
93. Laffan A; Caffo B; Swihart A; Punjabi N. Sleep stage transitions, arousal frequency, and self-reported sleep quality. *Sleep*. 2007; 30. 458; A156-A157
94. Laffan A; Caffo B; Swihart B; Punjabi N. The relation between sleep-disordered breathing and sleep disruption in healthy middle aged and older adults. *Sleep*. 2007; 30. 502; A171-A171
95. Louis M; Punjabi N. Acute effects of intermittent hypoxia on glucose metabolism in normal subjects. *Sleep*. 2007; 30. 621; A209-A210
96. Murphy S; Punjabi N. Intermittent hypoxemia, sleep-disordered breathing and cardiovascular disease. *Sleep*. 2007; 30. 595; A201-A201
97. Stamatakis K; Punjabi N. Effects of experimental sleep fragmentation on glucose metabolism in normal subjects. *Sleep*. 2007; 30. 408; A139-A140
98. Stamatakis K; Punjabi N. Physiologic manifestations of experimental sleep fragmentation in normal subjects. *Sleep*. 2007; 30. 409; A140-A140
99. Schey R; Budhiraja R; Quan SF; **Punjabi NM**; Dickman RM; Fass SS; Fass R. Power spectral analysis of the sleep electroencephalogram in heartburn patients with or without gastroesophageal reflux disease (gerd). *Gastroenterology*. 2007; 132 (4). A480
100. Budhiraja R; Dickman R; Quan SE; Punjabi N; Fass S; Fass R. Symptomatic patients with erosive esophagitis demonstrate reduced delta electroencephalographic activity during sleep compared to those without erosive esophagitis or abnormal esophageal acid exposure. *American Journal of Gastroenterology*. 2006; 101 (9). 68; S65-S65
101. Stamatakis KA; Caffo B; Sanders M; Robbins J; Gottlieb D; Resnick H; Mehra R; Budhiraja R; Punjabi N. Lowering the threshold of hypoxemia in sleep-disordered breathing as a predictor of impaired metabolic function. *Sleep*. 2005; 28. 463; A157-A157
102. Unruh ML; Caffo BS; Fried LF; Gottlieb DJ; **Punjabi NM**; Newman AB. The relationship of kidney function to sleep disordered breathing among a large cohort of older adults. *Sleep*. 2005; 28. 530; A179-A179
103. Patil SP; Schneider H; Smith PL; **Punjabi NM**; Schwartz AR. Structural impact of obesity and gender on upper airway (ua) collapsibility in obstructive sleep apnea (osa). *Journal of Investigative Medicine*. 2003; 51. S387
104. Simpson C; Punjabi N; Fried LP. The relationship between lung function and self-reported performance measures in disabled older women.. *Journal of The American Geriatrics Society*. 2003; 51 (4). P45; S58-S59
105. **Punjabi NM**; Young T. Prevalence of objective daytime sleepiness in the general population. *Sleep*. 2003; 26. A189-A190
106. Simpson C, **Punjabi NM**, Fried LP. The relationship between lung function and self-reported performance measures in disabled older women. *J Am Geriatric Society* 51 (4): P45 (Supplement) April 2003.
107. **Punjabi NM**, Young T. Prevalence of objective daytime sleepiness in the general population. *Sleep* 26: A189-A190.

108. Patil SP, Schneider H, Smith PL, **Punjabi NM**, Schwartz AR. Structural impact of obesity and gender on upper airway (UA) collapsibility in obstructive sleep apnea (OSA). *Journal of Investigative Medicine* 51: S387 (Supplement) March 2003.
109. Patil SP, Marx JJ, Schneider H, **Punjabi NM**, O'Donnell CP, Smith PL, Schwartz AR. Effects of obesity on upper airway collapsibility in normal subjects. *Sleep* 25: 182 (Supplement) April 2002.
110. Resnick HE; Redline S; Shahar E; Gilpin A; Newman A; Walter R; Ewy GA; Howard BV; Punjabi N. Sleep disturbances and diabetes mellitus: cross-sectional results from the sleep heart health study. *Diabetes*. 2002; 51. 955; A235-A235
111. Yeh HC; **Punjabi NM**; Wang NY; Pankow J; Duncan BB; Cox CE; Brancati FL. Cross-sectional and prospective study of lung function in adults with diabetes mellitus. *Diabetes*. 2002; 51. 983; A242-A243
112. Yeh HC; Brancati FL; Wang NY; Pankow J; Duncan BB; **Punjabi NM**. Low lung function as a predictor of incident type 2 diabetes mellitus. *Diabetes*. 2002; 51. 262; A64-A65
113. Chen CA; Bandeen-Roche K; Schwartz AR; Smith PL; **Punjabi NM**. Predictors of daytime sleepiness in sleep disordered breathing. *Sleep*. 2002; 25. 2; A1-A2
114. Patil SP; Marx JJ; Schneider H; **Punjabi NM**; O'Donnell CP; Smith PL; Schwartz AR. Effects of obesity on upper airway collapsibility in normal subjects. *Sleep*. 2002; 25. 182; A136-A137
115. Yeh HC, Brancati FL, Wang NY, Pankow J, Duncan BB, **Punjabi NM**. Low Lung Function as a Predictor of Incident Type 2 Diabetes Mellitus. *Diabetes* 51: 262 (Supplement) June 2002.
116. Yeh HC, **Punjabi NM**, Wang N, Pankow J, Duncan B, Cox C, Brancati F. Cross-sectional and Prospective Study of Lung Function in Adults with Diabetes Mellitus. *Diabetes* 51: 983 (Supplement) June 2002.
117. Resnick HE, Redline S, Shahar E, Gilpin A, Newman A, Walter R, Ewy GA, Howard BV, **Punjabi NM**. Sleep Disturbances and Diabetes Mellitus: Cross-sectional Results from the Sleep Heart Health Study. *Diabetes* 51: 955 (Supplement) June 2002.
118. Chen CA, Bandeen-Roche K, Schwartz AR, Smith PL, **Punjabi NM**. Predictors of daytime sleepiness in sleep-disordered breathing. *Sleep* 25: 002 (Supplement) April 2002.
119. Patil SP, Marx JJ, Schneider H, **Punjabi NM**, Smith PL, O'Donnell CP Schwartz AR. Differences in the control of upper airway (UA) collapsibility in obstructive sleep apnea and normal subjects. *Am Rev Respir Crit Care Med*. 2002; A39.
120. **Punjabi NM**, Shahar E, Redline S, Enright P, Resnick HE. The association between sleep-disordered breathing and insulin resistance. *Am Rev Respir Crit Care Med*. 2002; A457.
121. **Punjabi NM**, Chen CA, Wang NY, Wise RA, Schwartz AR, Smith PL. The association between sleep-disordered breathing and mortality. *Am Rev Respir Crit Care Med*. 2002; A231
122. Marcus CL; Punjabi N; Katz ES; Verfaillie K; Black CA; Lutz J; Smith PL; Schwartz AR. Dynamic pharyngeal airway responses in children with the obstructive sleep apnea syndrome (osas). *Sleep*. 2001; 24. 208; A127-A127
123. Marcus CL, **Punjabi NM**, Katz ES, Verfaillie K, Black CA, Lutz J, Smith PL, Schwartz AR. Dynamic pharyngeal airway responses in children with the obstructive sleep apnea syndrome (OSAS). *Sleep* 24: 208 (Supplement) April 2001.

124. Breugelmans JG, Ford DE, Smith PL, Schwartz AR, Nieto FJ, **Punjabi NM**. Quality of life in sleep-disordered breathing: The level of agreement between self- and proxy-reports. *Am Rev Respir Crit Care Med*. 2001; 163(5): A934.
125. Fraser K, **Punjabi NM**. Factors affecting immediate perception of daytime sleep episodes in sleep-disordered breathing (SDB). *Am Rev Respir Crit Care Med*. 2001; 163(5): A935.
126. Patil SP, **Punjabi NM**, Smith PL, O'Donnell CP, Schwartz AR. The effect of obesity on daytime hypercapnea in patients with severe airflow limitation. *Am Rev Respir Crit Care Med*. 2001; 163(5): A186.
127. Sevransky JE, Haponik E, Yeh H, **Punjabi NM**. Variation in vasopressor use within a university based MICU. *Am Rev Respir Crit Care Med*. 2001; 163(5): A455.
128. Marcus CL, Katz ES, **Punjabi NM**, Smith PL, Lutz J, Schwartz AR. Developmental changes in pharyngeal airway dynamics during hypercapnia. *Am Rev Respir Crit Care Med*. 2000; 161(3): A27.
129. Marx JJ, Bandeen-Roche K, Schwartz AR, Smith PL, **Punjabi NM**. Does REM-Apnea Contribute to Daytime Sleepiness. *Am Rev Respir Crit Care Med*. 2000; 161(3): A683.
130. Krishnan J; Punjabi N; Chen C; Schwartz A; Smith P. Mallampati airway predicts moderate-severe sleep apnea.. *American Journal of Respiratory And Critical Care Medicine*. 1999; 159 (3). A794-A794
131. **Punjabi NM**; Chen CA; Allan LW; O'Hearn DJ; Bandeen-Roche K; Schwartz AR; Smith PL; Ford DE. Determinants of quality of life (qol) impairment with sleep apnea.. *American Journal of Respiratory And Critical Care Medicine*. 1999; 159 (3). A770-A770
132. **Punjabi NM**; Sorkin JD; Katzel LI; Marx JJ; Schwartz AR; Smith PL; Ford DE. Insulin resistance is an independent risk factor for sleep apnea.. *American Journal of Respiratory And Critical Care Medicine*. 1999; 159 (3). A562
133. Krishnan J, **Punjabi NM**, Chen CA, Schwartz AR, Smith PL. Mallampati Airway Predicts Moderate-Severe Sleep Apnea. *Am Rev Respir Crit Care Med*. 1999; 159(3): A794.
134. **Punjabi NM**, Chen CA, Allan LW, O'Hearn DJ, Bandeen-Roche K, Schwartz AR, Smith PL, Ford DE. Determinants of quality of life impairments with sleep apnea. *Am Rev Respir Crit Care Med*. 1999; 159(3): A770.
135. **Punjabi NM**, Sorkin JD, Katzel LI, Marx JJ, Schwartz AR, Smith PL, Ford DE. Insulin resistance is an independent risk factor for sleep apnea. *Am Rev Respir Crit Care Med*. 1999; 159(3): A562.
136. Schneider H, Krampitz G, O'Hearn D, **Punjabi NM**, LeBlanc K, O'Donnell CP, Smith PL, Schwartz AR. Passive breathing mechanics with intermittent high flow transtracheal air insufflation. *Am Rev Respir Crit Care Med*. 1998; 157(3): A683.
137. **Punjabi NM**, Bandeen-Roche KJ, O'Hearn DJ, Allen RP, Schwartz AR, Smith PL, Wise RA, Ford DE. Prediction of obstructive sleep apnea using symptom scores from the Hopkins Sleep Survey. *Am Rev Respir Crit Care Med*. 1998; 157(3): A649.
138. **Punjabi NM**, O'Hearn DJ, Schwartz AR, Smith PL, Wise RA, Ford DE, Bandeen-Roche KJ. Determinants of multiple sleep latency test in patients with obstructive sleep apnea. *Am Rev Respir Crit Care Med*. 1998; 157(3): A51.

139. Wadwa KS; Venbrux A; Osterman F; Mitchell S; Punjabi N; Thuluvath PJ. Transjugular intrahepatic portosystemic shunt (tipss) may cause porto-pulmonary hypertension.. Gastroenterology. 1997; 112 (4). A1410
140. **Punjabi NM**, Wise RA. Single breath helium dilution in the assessment of static lung volumes. 155(4): Am Rev Respir Crit Care Med. 1997, 155(4): A906.
141. **Punjabi NM**, Shade D, White P, Fessler H, Brower R. Subjective sensations and physiologic correlates of patient-ventilator asynchrony. Am Rev Respir Crit Care Med. 1994; 149 (4): A 68.

V. PROFESSIONAL

Funded Research Performed:

09/01/2021 – 08/31/2026

P50 MD017347

Project 2 PI at UM: Naresh M. Punjabi, MD, PhD; Effort 25%

Southeast Collaborative for Innovative and Equitable Solutions to Chronic Disease Disparities

04/01/2019 – 03/31/2023

Implications of Obstructive Sleep Apnea for Fat Metabolism

National Institutes of Health/NHLBI

R01 HL146709

PI: Naresh M. Punjabi, MD, PhD; Effort 25%

Total Direct Costs: \$1,932,282 Direct Costs

09/01/2018 – 08/30/2020

Sleep apnea treatment with positive pressure therapy for prevention of diabetes mellitus

National Institutes of Health/NHLBI

1 U34 DK120051

PI: Naresh M. Punjabi, MD, PhD; Effort 20%

Total Direct Costs: \$424,419 Direct Costs

06/01/2016 – 05/31/2021

The ARIC Study of Midlife Sleep and Late-Life Brain Amyloid

National Institute of Aging

PI: Adam Spira, PhD (Role: Coinvestigator; Effort 10%)

09/01/2015 – 05/31/2020

Poor Sleep Altered Circadian Rhythms and Alzheimers Disease

National Institute of Aging

PI: Adam Spira, PhD (Role: Coinvestigator; Effort 10%)

04/01/2014 – 03/30/2019

Treating Sleep Apnea in Type 2 Diabetes Mellitus: A Randomized Clinical Trial

National Institutes of Health/NHLBI

R01HL117167

PI: Naresh M. Punjabi, MD, PhD; Effort: 25%

07/01/2017 – 06/30/2019

Sleep Reading Center for the Multi-Center AIDS Cohort Study

National Institutes of Health Grant Supplement

PI: Naresh M. Punjabi, MD, PhD; Effort 10%

08/01/2015 – 07/30/2018

Clinical Utility of Heart Rate in Mental Health

MediBio (Sydney, Australia)

PI: Naresh M. Punjabi, MD, PhD; Effort: 10%

03/01/2015 – 08/03/2018

Diagnosing and Managing Sleep-Disordered Breathing in Patients with Decompensated Congestive Heart Failure

American Sleep Medicine Foundation

PI: Naresh M. Punjabi, MD, PhD; Effort: 5%

Curriculum Vitae: Naresh M. Punjabi (April 30, 2023)

09/01/2008 - 12/31/2015

The GLYCOSA Study

CA-09-06-01 Clinical Trial

ResMed Corporation (San Diego, CA)

PI: Naresh M. Punjabi, MD, PhD; Effort: 10%

07/01/2010 – 06/30/2014

Mechanisms of Altered Glucose Metabolism in Sleep-Disordered Breathing

National Institutes of Health/NHLBI

5R01HL075078

\$1,616,977

PI: Naresh M. Punjabi, MD, PhD; Effort: 20%

07/01/2010 – 06/30/2014

Association of Sleep Disorders with Cardiovascular Health Across Ethnic Groups

National Institutes of Health/NHLBI

1R01HL098433-01A

\$793,556 (Subcontract direct costs; Brigham and Women's Hospital)

PI: Naresh M. Punjabi, MD, PhD; Effort: 5%

06/15/2008 – 05/31/2013

Sleep Apnea and Longitudinal Changes in Glycemia and Inflammation in Older Men

National Institutes of Health/NHLBI

5R01HL089467

\$1,000,000

PI: Naresh M. Punjabi, MD, PhD; Effort: 15%

07/05/2007 – 06/30/2011 Longitudinal Changes in Sleep Structure: Implications for Health Outcomes

National Institutes of Health/NHLBI

5R01HL086862

\$900,000

PI: Naresh M. Punjabi, MD, PhD; Effort: 20%

08/01/2009 – 07/31/2011

Mechanisms Linking Sleep-Disordered Breathing and Cardiovascular Disease

National Institutes of Health/NHLBI

5RC1HL099952

\$1,000,000

PI: Naresh M. Punjabi, MD, PhD; Effort: 5%

09/30/2009 – 08/31/2011

Phase II Trial of Sleep Apnea Treatment to Reduce Cardiovascular Morbidity

National Institutes of Health/NHLBI

1RC2HL101417

\$617,783 (Subcontract direct costs; Case Western Research University)

PI: Naresh M. Punjabi, MD, PhD; Effort: 5%

07/01/2009 – 06/30/2011

Effects of Sex and Fat distribution on Sleep-Disordered Breathing

National Institutes of Health/NHLBI

2R01HL037379

\$407,330

PI: Philip L. Smith, MD; Role: Co-Investigator; Effort: 5%

09/03/2003 – 07/31/2007
The Effects of Sleep Apnea on Metabolic Function
National Institutes of Health/NHLBI
5R01HL075078
\$1,000,000
PI: Naresh M. Punjabi, MD, PhD; Effort: 35%

09/01/2004 – 08/31/2009
The Sleep Heart Health Study III
National Institutes of Health/NHLBI
5U01HL053937
\$333,202
PI: Naresh M. Punjabi, MD, PhD; Effort: 15%

08/15/2005 – 07/31/2007
Effects of Aging on Sleep Architecture
National Institutes of Aging/NIA
1R21AG02553
\$275,000
PI: Naresh M. Punjabi, MD, PhD; Effort: 25%

09/01/1999 – 08/30/2004
The Sleep Heart Health Study II
National Institutes of Health/NHLBI
5U01HL053937
\$1,372,257
PI: Naresh M. Punjabi, MD, PhD; Effort: 30%

08/01/1999 – 07/31/2004
Early Identification and Treatment of Sleep Apnea
National Institutes of Health/NHLBI
5K23HL04065
\$678,382
PI: Naresh M. Punjabi, MD, PhD; Effort: 80%

07/01/1998 – 06/30/1999
Validation of a Screening Instrument for Sleep Apnea
Agency for Health Care Research and Policy
F32HS000129
\$32,456
PI: Naresh M. Punjabi, MD, PhD; Effort: 100%

Editorial responsibilities

2016 – 2020	Deputy Editor-in-Chief, <i>Sleep</i>
2006 – Present	Editorial Board, <i>Journal of Clinical Sleep Medicine</i>
2006 – Present	Editorial Board, <i>Sleep</i>
2009 – Present	Editorial Board, <i>Sleep Medicine</i>
2010 – 2015	Associate Editor, <i>Sleep</i>
2005 – 2019	Editorial Board, <i>Chest</i>
2005 – 2007	Editorial Board, <i>American Journal of Respiratory Critical Care Medicine</i>

Peer Reviewer for: American Journal of Respiratory Critical Care Medicine, New England Journal of Medicine, Chest, Sleep, Sleep Medicine, European Respiratory Journal, Diabetes Care, Diabetologia

Professional and Honorary Organizations

1994 – Present American Thoracic Society
1998 – Present Fellow, American College of Chest Physicians
1999 – Present American Academy of Sleep Medicine
2007 – Present Sleep Research Society

Honors and Awards

2018 William C. Dement Academic Achievement Award (American Academy of Sleep Medicine)
2002 Fellow, American Academy of Sleep Medicine
2002 Fellow, American College of Chest Physicians
2001 Omega Delta Honor Society, Johns Hopkins University
2001 Fellow, American College of Chest Physicians
1998 National Research Scholarship Award, Agency for Health Care Policy and Research
1998 American Lung Association, Research Fellowship Award
1991 Calvin Fentress Research Award, University of Chicago School of Medicine
1988 National Institutes of Health Research award, University of Chicago School of Medicine
1987 Honors in Biomedical Engineering, Northwestern University
1986 National Dean's List, Northwestern University
1985 Tau Beta Pi, National Engineering Society, Northwestern University
1984 Alpha Lamda Delta Honor Society, Northwestern University

Post-Doctoral Fellowships

Pulmonary, Critical Care, and Sleep Medicine 07/1995 - 06/1999
Johns Hopkins University School of Medicine

National and International Scientific Review Groups, Study Sections

11/01/2022 ZRG1 CCHI-J (10); Small Business: Disease Management, Risk Prevention, and Health Behavior Change; NIH Study Section.
07/29/2021 ZRG1 CVRS-H 03 Member Conflict: Respiratory Sciences
NIH study Section
04/16/2021 Special Emphasis Panel for RFA-HL-21-018 (Using Syndemics to Understand HLBS Disease Emergence and Progression in People with HIV)
05/2019 VA Merit Grant Review Committee
11/2017 VA Merit Grant Review Committee
2010 – 2014 Grant Review Committee, American Sleep Medicine Foundation
2008 – 2012 Permanent Member, NIH Study Section
Respiratory Integrative Biology and Translational Research
2012 – 2013 Chair, Grant Review Committee, American Sleep Medicine Foundation
02/2011 *Ad hoc* reviewer, Research Grants Council, Hong Kong, China
02/2010 *Ad hoc* reviewer, Research Grants Council, Hong Kong, China
09/2009 *Ad hoc* reviewer, Diabetes UK Scientific Grant Reviewer
02/2009 *Ad hoc* reviewer, Research Grants Council, Hong Kong, China
11/2005 *Ad hoc* reviewer, The Wellcome Trust (London, UK) Grant Review Committee
10/2005 *Ad hoc* reviewer, National Institutes of Aging (Program Project Review Committee)
10/2005 *Ad hoc* reviewer, Respiratory Integrative Biology and Translational Research Study Section
10/2004 *Ad hoc* reviewer, Respiratory Integrative Biology and Translational Research Study Section

08/2004 *Ad hoc* reviewer, The Wellcome Trust (London, UK) Grant Review Committee
07/2002 National Institutes of Aging (Program Project Review Committee).

National and Local Advisory Committees

2019 – Present FDA, Anesthesiology and Respiratory Devices Panel
2015 – 2018 National Institutes of Heart, Lung, and Blood Institute
Sleep Disorders Research Advisory Board
2009 – 2014 External Advisory Committee
Center for Research on the Management of Sleep Disorders
University of Washington, School of Nursing
2016 – 2018 Publication Policy Committee, Sleep Research Society
2008 – 2020 Advisory Council, Graduate Training Program in Clinical Investigation,
Johns Hopkins Bloomberg School of Public Health.
2001 – 2012 Steering and Executive Committee, The Sleep Heart Health Study

Teaching Awards Received:

08/2020 Outstanding Rating, Database Management in Clinical Research
Johns Hopkins University, Bloomberg School of Public Health
07/2020 Outstanding Rating, Principles of Grant Writing
Johns Hopkins University, Bloomberg School of Public Health
05/2010 Excellence in Teaching, Principles of Grant Writing
Johns Hopkins University, Bloomberg School of Public Health

Teaching Specialization (courses taught):

2013 – 2020 Associate Program Director
Graduate Training Program in Clinical Investigation
2002 – 2020 Course Director, “Database Design and Implementation in Clinical Research”
Graduate Training Program in Clinical Investigation
Johns Hopkins University, Bloomberg School of Public Health
2007 – 2020 Course Director, Planning and Funding Clinical Research
Graduate Training Program in Clinical Investigation
Johns Hopkins University, Bloomberg School of Public Health
2007 – 2008 Course Director, “National Sleep Medicine Course”
Sponsor: American Academy of Sleep Medicine

Thesis and Dissertation Advising/Post-doctoral Student Supervision

Advisees, Pre-Doctoral:

1999 – 2001 J. Gabrielle Breugelmans, MPH
Research Advisor, PhD program (Department of Epidemiology)
Johns Hopkins Bloomberg School of Public Health
2001 – 2004 Clara A. Chen, BA
Research Advisor, MHS program (Department of Epidemiology)
Johns Hopkins Bloomberg School of Public Health
2002 – 2004 Lin Zhang, MD
Research Advisor, PhD Program (Department of Epidemiology)
Johns Hopkins Bloomberg School of Public Health
2005 – 2007 Suzanne Lesage, MD (Pre-doctoral Fellow, Epidemiology)
Research Advisor, MHS program (Department of Epidemiology)
Johns Hopkins Bloomberg School of Public Health
2005 – 2009 Allison Laffan, MHS (Pre-doctoral Fellow, Epidemiology)

2008 – 2009 Research Advisor, PhD Program (Department of Epidemiology)
Johns Hopkins Bloomberg School of Public Health
Stephen Fernandez (MPH Student)

2015 – 2017 Capstone Advisor, Johns Hopkins Bloomberg School of Public Health
Gina Norato (MHS Student)

2015 – 2017 Research Advisor, MHS program (Department of Biostatistics)
Ji Soo Kim (MHS Student)

2019 Research Advisor, MHS program (Department of Biostatistics)
Wail Yar, MD. (MPH Student)

2020 Capstone Advisor, Johns Hopkins Bloomberg School of Public Health
Tanya Abdul-Malak (MPH Student)

Capstone Advisor, Johns Hopkins Bloomberg School of Public Health

Advisees, Post-Doctoral:

1998 – 2001 Jason J. Marx, M.D. (Postdoctoral Fellow, Pulmonary & Critical Care Medicine)
Johns Hopkins University, Baltimore, MD

2000 – 2004 Susheel Patil, M.D. (Postdoctoral Fellow, Pulmonary & Critical Care Medicine)
Johns Hopkins University, Baltimore, MD

2004 – 2008 Katie Stamatakis, Ph.D. (Postdoctoral Fellow, Department of Epidemiology)
Johns Hopkins University, Baltimore, MD

2005 – 2008 Mariam Louis, MD (Postdoctoral Fellow, Sleep Medicine)
Johns Hopkins University, Baltimore, MD
Johns Hopkins Bloomberg School of Public Health

2009 – 2010 Stacey Ishman, MD (MPH Student)
Capstone Advisor, Johns Hopkins Bloomberg School of Public Health

2010 – 2013 Jan Polak, MD (Postdoctoral Fellow, Sleep and Metabolism)
Post-doctoral Fellowship Advisor, Johns Hopkins University, Baltimore, MD

2014 – 2015 Rashmi N Aurora, MD (MHS Degree)
Associate Professor of Medicine
Johns Hopkins University School of Medicine

2012 – 2018 Sapna Khuchadkur, MD (PhD Candidate)
Associate Professor of Anesthesia and Critical Care Medicine
Johns Hopkins University School of Medicine

2015 – 2018 Sarah Bertrand, PhD
Basic Science Post-Doctoral Fellow, JHU School of Medicine

2017 – 2018 Nik Samtani, MD
Sleep Medicine Post-Doctoral Fellow, JHU School of Medicine

2017 – 2018 Jan Griffin, MD
Cardiology Post-Doctoral Fellow, JHU School of Medicine

2018 – 2020 Stanley Chen Cardenas, MD
Endocrinology Post-Doctoral Fellow, JHU School of Medicine

2018 – 2020 Abigail Koch, MD
Pulmonary-Critical Care Post-Doctoral Fellow, JHU School of Medicine

2018 – 2020 Chris Kapp, MD
Endocrinology Post-Doctoral Fellow, JHU University School of Medicine

Thesis Committee

2004 Masters of Health Science Thesis, Clara Chen (Role: Primary Advisor)
(Johns Hopkins University Bloomberg School of Public Health)

2004 Doctor of Philosophy in Epidemiology, Lin Zhang, MD (Role: Primary Advisor)
(Johns Hopkins University Bloomberg School of Public Health)

2006 Masters of Science (Biostatistics), Bruce Swihart (Role: Co-Primary Advisor)
University of Colorado (Department of Biostatistics)

2009 Doctor of Philosophy in Epidemiology, Alison Laffan, (Role: Primary Advisor)
(Johns Hopkins University Bloomberg School of Public Health)

2010 Masters of Biostatistics, Yaping Wang, (Role: Co-Primary Advisor)
(Johns Hopkins University Bloomberg School of Public Health)

2016 Doctorate in Graduate Training Program in Clinical Investigation
Doris Leung, MD; Johns Hopkins Bloomberg School of Public Health

2017 Doctorate in Graduate Training Program in Clinical Investigation
Alicia Arbaje, MD; Johns Hopkins Bloomberg School of Public Health

2019 Doctorate in Graduate Training Program in Clinical Investigation
Mark Bicket, MD; Johns Hopkins Bloomberg School of Public Health

Examination Committee Member:

Graduate Training Program in Clinical Investigation, Johns Hopkins University School of Medicine
Doctoral Preliminary Exam Committee Member

04/23/2018 Julia Johnson, MD
10/14/2014 Doris Leung, MD
08/26/2013 Sapna Kudchadkar, MD
07/11/2011 Tammy Brady, MD
12/22/2006 Susheel Patil, MD
03/24/2006 Laura Hummers, MD
11/04/2005 Laura Herpel, MD
09/10/2001 Susheel Patil, MD

Service (University Committee and Administrative Responsibilities)

Chief, Division of Pulmonary and Critical Care Medicine
University of Miami, Miller School of Medicine

Miami VA Hospital
Chief, Division of Pulmonary, Critical Care, and Sleep Medicine

INVITED LECTURES (In Reverse Chronological Order)

2019

deCODE Genetics, Reykjavik Iceland (February 22, 2019)

Title: *The Biological Significance of Sleep*

Medical Grand Rounds, Ohio State University, Columbus, Ohio (March 7, 2019)

Title: *Metabolic Implications of Sleep Apnea*

Medical Grand Rounds, Good Samaritan Hospital, Baltimore, Maryland (March 13, 2019)

Title: *Sleep apnea and Cardiovascular Disease.*

World Sleep Society Meeting, Vancouver, British Columbia, Canada

Title: *Update on OSA Epidemiology* (September 21, 2019)

Title: *Is the Apnea-Hypopnea Index the best way to quantify the severity of sleep-disordered breathing?* (September 23, 2019)

Virginia Academy of Sleep Medicine (October 25, 2019)

Title: *Obstructive Sleep Apnea and Cardiovascular Disease.*

2018

FDA Workshop (April 16, 2018)

Study Design Considerations for Devices including Digital Health Technologies for Sleep Disordered Breathing (SDB) in Adults

Panelist on “Defining SDB Conditions for Clinical Trials”

Panelist on “Clinical Trial Design Considerations for therapeutic SDB Devices”

National Jewish, Clinical & Translational Research Forum (April 26, 2018) Colorado

Title: *Metabolic Implications of Sleep Apnea*

Yale University Sleep Research Symposium (April 27, 2018)

Title: *Clinical Relevance of Sleep Apnea for Metabolism*

Post-Graduate Course at the American Thoracic Society Meeting (May 19, 2018)

Title: *Epidemiology and Consequences of Obstructive Sleep Apnea.*

American Professionally Sleep Societies Annual Meeting (June 2, 2018)

Skills for Success in Academic Sleep Research and Clinical Practice (Post Graduate Course)

Title: *Developing a Statistical Analysis Plan*

2017

Maryland Sleep Society (April 28, 2017)

Title: *Challenges in Diagnosis and Management of Sleep Disordered Breathing in Heart Failure*

American Thoracic Society (May 21, 2017)

Title: *What's in a number: How Diagnosis of OSA is determined by a 4% or 3% Desaturation*

31st Annual Meeting of the American Professional Sleep Societies (Boston, MA)

Title: *Sleep and Cardiovascular Health* (June 05, 2017)

Title: *Mild-to-Moderate Obstructive Sleep Apnea: Highly Prevalent, But of What Impact?* (June 06, 2017)

77th Scientific Sessions of the American Diabetes Association (June 10, 2017) (San Diego, US)

Title: *Treatment Options for Sleep—Continuous Positive Airway Pressure and Beyond*

9th Annual Conference of the Virginia Academy of Sleep Medicine & Dental Medicine (Nov 03 2017)

Title: *Sleep Duration, Obstructive Sleep Apnea and Type 2 Diabetes*

2016

American Diabetes Association 63rd Annual Advanced Postgraduate Course

Title: *Sleep and Diabetes: More than Sleep Apnea* (March 04-05, 2016)

Nordic Master Class, Stockholm, Sweden (November 7-8, 2016)

Title 1: *Sleep-disordered breathing and alterations in glucose metabolism*

Title 2: *Computer assisted automated scoring of sleep studies using the Somnolyzer*

2015

Obesity Management Workshop

Endocrine Society's 97th Annual Meeting & Expo: ENDO 2015; San Diego, CA (March 04, 2015)

Title: *Clinical Significance of Obstructive Sleep Apnea*

Industry Product Theater 2015, Associated Professional Sleep Societies Meeting, Seattle, WA

Title: *Automated Scoring of Polysomnograms Using the Somnolyzer* (June 08, 2015)

2014

Irish Sleep Society Meeting, 10th Scientific & Annual General Meeting, Dublin, Ireland

Title: *Metabolic and cardiovascular effects of obstructive sleep apnea* (February 15, 2014)

Morning Report, Rajai Hospital, Tehran, Iran

Title: *Obstructive sleep apnea: Implications for cardiovascular medicine* (April 26, 2014)

Ghaem Hospital, Mashhad, Iran

Title: *Health consequences of obstructive sleep apnea* (April 27, 2014)

Emam Khomeini Hospital, Tehran, Iran

Title: *Obstructive Sleep Apnea and Cardiovascular Disease* (April 28, 2014)

Shriati Hospital, Department of Endocrinology, Tehran, Iran

Title: *Obstructive sleep apnea and diabetes mellitus:*

Does one disorder alter the development or progression of the other? (April 28, 2014)

Heart Center, Markaz Ghalb Hospital

Title: *Cardiovascular and Metabolic Consequences of Obstructive Sleep Apnea* (April 29, 2014)

ResMed Sleep and Respiratory Medicine Conference, Sydney, Australia (November 26-28 2014)

Title 1: *Screening and Diagnosing OSA: Role of Portable Sleep Monitoring*

Title 2: *Optimizing Adherence to PAP therapy in OSA*

Title 3: *Cardiovascular Consequences of OSA*

2013

Center for Sleep and Circadian Neurobiology Seminary
University of Pennsylvania, Philadelphia, PA

Title: *Sleep apnea and glucose metabolism: Progress over the last decade* (January 23, 2013)

Medicine Update 2013, All India Institute of Medical Sciences, Delhi, India

Title: *Cardiometabolic risk associated with obstructive sleep apnea* (February 09, 2013)

Sleep Technology Conference of Greater Grand Rapids, Grand Rapids, Michigan

Title: *Cardiometabolic consequences of obstructive sleep apnea* (March 09, 2013)

Medical Grand Rounds, University of Washington, Seattle

Title: *Cardiovascular and metabolic implications of obstructive sleep apnea* (April 04, 2013)

American Thoracic Society Meeting, Philadelphia, PA (May 18, 2013)

Post Graduate Course: Measures of Sleep-Disordered Breathing Severity and Health-Related Outcomes

Title: *Metabolic and inflammatory markers in sleep-disordered breathing*

Advances in Pulmonary Medicine, Monongahela Valley Hospital, Monongahela, PA (October 13, 2013)

Title: *Sleep disorders in primary care*

British Sleep Society 25th Anniversary Meeting, Edinburgh Scotland

Title: *Obstructive sleep apnea and metabolic risk* (October 17, 2013)

Ehime University, Matsuyama Japan

Title: *Sleep-disordered breathing, glucose intolerance and insulin resistance* (October 29, 2013)

65th Annual Meeting of the JAPAN Broncho - Esophagological Society, Tokyo Japan

Title: *Recent advancements in sleep apnea* (October 30, 2013)

Yokohama City University, Tokyo Japan

Title: *Sleep-disordered breathing and health consequences including all-cause mortality* (October 30, 2013)

World Diabetes Congress 2013 and International Diabetes Federation Meeting, Melbourne, Australia

Symposium: Novel type 2 diabetes risk factors (December 4, 2013)

Title: *Can Disorders of Sleep Contribute to Diabetes Risk?*

2012

Endocrine Grand Rounds, Johns Hopkins University School of Medicine, Baltimore, MD

Title: *Can obstructive sleep apnea impact glucose homeostasis?* (January 18, 2012)

Medical Grand Rounds, Norwalk Hospital, Stamford, Connecticut

Title: *Sleep apnea and abnormalities in glucose metabolism* (March 15, 2012)

Keynote speaker, 1st Annual Pulmonary Update: Practical Topics for the Primary Care Provider

Thomas Jefferson University and Hospitals, Philadelphia, PA

Title: *Changing paradigm in sleep disorders* (April 27, 2012)

Invited Lecture, Maryland Sleep Society (Third Annual Conference), Baltimore, MD

Title: *Obstructive Sleep Apnea and Cardiovascular Disease:*

Lessons from the Sleep Health Study (May 4, 2012)

American Thoracic Society Meeting, San Francisco, CA
Title: *Clinical year in review: Sleep medicine* (May 20, 2012)

American Thoracic Society Meeting, San Francisco, CA
Title: *New findings from the Sleep Heart Health Study: 11 year follow-up* (May 23, 2012)

Invited Lecture, 72nd Scientific Sessions, American Diabetes Association, Philadelphia, PA
Title: *Sleep apnea and diabetes risk* (June 9, 2012)

Invited Lecture, 26th Annual Meeting of the Associated Professional Sleep Societies, Boston, MA
Title: *Obstructive sleep apnea and diabetes mellitus:
Does one disorder alter the development or progression of the other?* (June 12, 2012)

Keynote Address, Inaugural Asean Sleep Congress & 4th Malaysian International ORL-HNS
Congress, Kuala Lumpur, Malaysia (June 28, 2012)

Title: *The global impact of sleep disorders*

Plenary Lectures:

Assessing sleep disorders: A systematic approach

Assessing driving risk in obstructive sleep apnea: Who's safe and not safe to drive?

Basics of Managing Shift Work and Circadian Rhythm Disorders

Impact of sleep deprivation and obstructive sleep apnea on glucose metabolism

Medicine Grand Rounds, Winthrop University-Hospital (September 12, 2012)

Title: *Relevance of obstructive sleep apnea for glucose metabolism*

Pulmonary Grand Rounds: Winthrop University-Hospital (September 12, 2012)

Title: *The Sleep Heart Health Study: A Look Back at Two Decades of Epidemiological Research on Sleep Apnea*

Resmed Sleep and Respiratory Medicine Conference (Inspire 2012), Sydney, Australia

Title: *Public Health Aspects of Obstructive Sleep Apnea* (November 21, 2012)

Keynote Speaker, XXXV Congress of the Brazilian Thoracic Society, Belo Horizonte, Brazil (Nov 27, 2012)

Title 1: *Impact of Sleep Disorders on Mortality and Cardiovascular Health*

Title 2: *The Relationship Between Sleep Apnea and Cardiovascular Health*

Title 3: *Effects of Obstructive Sleep Apnea on Metabolic Syndrome*

2011

State-of-the-Art Course, American Thoracic Society (March 5, 2011)

Title: *The epidemiology of obstructive sleep apnea*

Title: *Effects of obstructive sleep apnea on endocrine function*

25th Anniversary Meeting of the Northeast Sleep Society, Newport, RI

Title: *Obstructive sleep apnea and diabetes* (April 1, 2011)

Breakfast Symposium, 4th Diabetes International Conference, New Delhi, India

Title: *Sleep apnea and diabetes: A bidirectional association* (April 15, 2011)

2011 Research Summit, American Association of Oral and Maxillofacial Surgeons, Chicago, IL

Title: *Morbidity and mortality associated with obstructive sleep apnea* (May 5, 2011)

Plenary Symposium, World Sleep Meeting 2011, Kyoto, Japan

Title: *The Sleep Heart Health Study: A look back at lessons learned* (October 16, 2011)

4th Annual Meeting Diabetes and Cardiovascular Disease EASD Study Group, Munich, Germany
Title: *Excessive daytime sleepiness is associated with higher HbA1c in type 2 diabetes: The GLYCOSA Study* (October 28, 2011)

Inspire 2011, Resmed Sleep and Respiratory Medicine Conference, Sydney, Australia (November 17, 2011)
Title: *Pathophysiology of sleep apnea*
Title: *Sleep apnea and glucose metabolism*

2010

American Thoracic Society State of the Art Course, Miami, FL (February 25, 2010)

Title 1: *Epidemiology and Diagnosis of Sleep Apnea*
Title 2: *Sleep Apnea and Abnormalities in Glucose Metabolism*

Department of Epidemiology Seminar, Johns Hopkins Bloomberg School of Public Health
Title: *Implications of Sleep for Health and Disease: The Sleep Heart Health Study* (March 19, 2010)

Grand Rounds, Department of Pediatrics, University of Chicago
Title: *Impaired metabolism in sleep apnea: What is all the fuss about?* (April 06, 2010)

Invited Lecturer, Symposium “Cardiac Consequences of Sleep-disordered Breathing”
'New perspectives in sleep medicine - sleep in cardiology', Berlin Germany
300-year anniversary (Charite University Hospital) / 200 year anniversary (Humboldt University)
Title: *Metabolic changes in patients with sleep-related breathing disorders* (May 14, 2010)

Featured Speaker, American Thoracic Society (New Orleans, Louisiana)
Symposium “Metabolic Aspects of Sleep Apnea: From Mice to Men” (May 17, 2010)
Title: *Metabolic effects of sleep disordered breathing: evidence from clinical and translational studies*

Keynote speaker, Symposium on Sleep Medicine
Iwate Medical University school of Medicine, Morioka, Japan
Title: *Sleep apnea and cardiometabolic disease* (August 28, 2010)

Pulmonary Grand Rounds, Mount Sinai Medical Center, New York, NY
Title: *The Sleep Heart Health Study* (September 24, 2010)

World Sleep 2011, International Meeting of the World Sleep Federation (October 16-20, 2010)
Symposium: The Burden of Sleep-Disordered Breathing Across the Globe (Chair)
Title: *The Sleep Heart Health Study: A look back at lessons learned* (October 17, 2010)

Keynote speaker, Congress of the French Sleep Research Society (November 19, 2010)
Title: *Impact of sleep disorders on mortality* (Keynote lecture)
Title: *What have we learned from the Sleep Heart Health Study*

2009

American Heart Association Dinner, Pittsburgh, PA
Title: *Cardiovascular Consequences of Sleep Apnea* (January 29, 2009)

Keynote Speaker, Tokyo Respiratory Care Conference, Tokyo, Japan
Title: *Alterations in Glucose Disposal in Sleep Apnea* (March 7, 2009)

World Congress of Sleep Apnea, Seoul, Korea

Title: *Mechanisms of Altered Glucose Metabolism in Sleep Apnea* (March 28, 2009)

Update in Sleep Medicine (Sleep Apnea and its Relation to Diabetes and Heart Disease)

St Luke's Hospital, Chesterfield, MO

Title: *The Metabolic Consequences of Sleep Apnea* (April 16, 2009)

International Statistical Institute Meeting, Durban, South Africa

Invited Paper Meetings (Symposium)

Title: *Characterizing and Quantitating Normal and Abnormal Sleep* (August 18, 2009)

11th International Symposium on Sleep and Breathing, Pittsburgh, PA (September 11, 2009)

Title: *Effects of Experimental Sleep Fragmentation on Glucose Metabolism in Normal Subjects*

7th International Sleep Disorders Forum, Cannes, France (September 24, 2009)

Sponsor: Sanofi-Aventis

Title: *Assessing the Sleep Homeostat in a Large Community Sample and its Relation to Health Outcomes*

International Diabetes Federation Meeting, Montreal, Canada

Title: *Obstructive Sleep Apnea, Disease Definitions, and Metabolic Implications* (October 18, 2009)

Sleep Grand Rounds University of Toronto, Toronto Canada (November 13, 2009)

Title: *The Clinical Significance of Sleep Apnea for Glucose Metabolism and Type 2 Diabetes*

2008

Medical Grand Rounds, Tufts University Medical Center, Boston MA

Title: *Sleep Apnea and Metabolic Dysfunction* (February 21, 2008)

American Thoracic Society International Meeting, Toronto Canada

Post-graduate course: Cardiovascular Consequences of Sleep-disordered Breathing

Title: *Sleep-disordered breathing and Metabolic Syndrome* (May 16-18, 2008)

American Thoracic Society International Meeting, Toronto Canada

Symposium entitled "Sleep Heart Health Study: Morbidity and Mortality Outcomes Associated with Sleep-disordered breathing"

Title: *The Relationship of Sleep-disordered Breathing and Total Mortality* (May 16-18, 2008)

Sleep Disorders Seminar, University of Regensburg, Germany

Title: *Effects of Sleep Apnea on Glucose Metabolism & Cardiovascular Disease: The Sleep Heart Health Study* (July 28, 2008)

Director, National Sleep Medicine Course, Chicago IL

Title 1: *Sleep and Endocrinology* (August 7-10, 2008)

Title 2: *Consequences of Sleep Deprivation* (August 7-10, 2008)

Symposium on Sleep and Breathing Disorders, Cairo Egypt [Sponsor: Resmed] (October 17-20, 2008)

Title 1: *Pathogenesis of Obstructive Sleep Apnea*

Title 2: *Clinical Features, Diagnosis, and Treatment for Obstructive Sleep*

Title 3: *The Burden of Cardiovascular Disease in Sleep Apnea*

Title 4: *Pathophysiology of Diabetes in Obstructive Sleep Apnea*

Key Note Speaker: 10th Beijing / Hong Kong Medical Exchange
Update on Respiratory Medicine, Hong Kong
Title: *Pathogenesis of Metabolic Dysfunction in Sleep Apnea: The Role of Sleep Fragmentation and Intermittent Hypoxia* (November 8, 2008)

2007

Consensus Conference on Sleep Apnea and Type 2 Diabetes, Sydney, Australia
Title 1: *Pathophysiology of Type 2 diabetes in Obstructive Sleep Apnea* (February 15, 2007)
Title 2: *Epidemiology of Cardiovascular Disease in Obstructive Sleep Apnea* (February 17, 2007)

American Professional Sleep Societies Meeting, Minneapolis, MN
Symposium: Clinical significance of REM-related obstructive sleep apnea: An epiphenomena or a real disease
Title: *The Clinical Consequences of REM-related Obstructive Sleep Apnea: Evidence from Clinical and Population cohorts* (June 11, 2007)

Invited Lecture, American Diabetes Association Annual Meeting, Chicago, IL
Title: *The Sleep Heart Health Study* (June 23, 2007)

Director, National Sleep Medicine Course, Chicago, IL
Title 1: *Sleep and Endocrinology* (August 4, 2007)
Title 2: *Consequences of Sleep Deprivation* (August 4, 2007)

Invited Lecture, World Sleep Conference, Cairns Australia
Title: *Sleep Heart Health Study: What Have We Learned?* (September 04, 2007)

Pro-Con Debate, World Sleep Conference, Cairns Australia
Title: *Does Sleep Apnea Cause Diabetes?* (September 05, 2007)

Heart Failure Society of America: 11th Annual Scientific Meeting, Washington DC
Title: *The Metabolic Burden of Sleep-disordered Breathing*. (September 18, 2007)

Emory University, Sleep Grand Rounds, Atlanta, GA
Title: *Highlights of the Sleep Heart Health Study* (September 19, 2007)

Penn State Milton S. Hershey Medical Center, Hershey, PA
Title: *Epidemiology of Sleep-Disordered Breathing* (November 2, 2007)

2006

National Sleep Foundation Conference 'Sleep and Obesity', Washington DC
Title: *Metabolic Derangements in Sleep Apnea and Implications for Obesity* (March 28, 2006)

Invited Lecture, American Diabetes Association, Washington DC
Title: *Pulmonary Disease and Diabetes* (June 10, 2006)

National Sleep Medicine Course – American Academy of Sleep Medicine, Chicago IL
Title: *Sleep and Endocrinology* (August 14, 2006)

Pulmonary Grand Rounds, Mount Sinai Medical Center, New York, NY
Title: *Cigarette Smoking: A Curse for a Good Night's Sleep* (December 4, 2006)

Keynote speaker, Annual Japanese Sleep Society Meeting, Tokyo, Japan
Title: *Sleep Apnea and Metabolic Dysfunction: Cause or Correlation?* (December 8, 2006)

2004

American College of Physicians Meeting, San Juan, Puerto Rico
Title 1: *Predictors or Correlates of Excessive Sleepiness in Sleep Apnea* (February 6, 2004)
Title 2: *Metabolic Dysfunction in Sleep-Disordered Breathing: A Causal Relationship?* (February 07, 2003)

Advanced Course in Sleep Medicine - American Academy of Sleep Medicine
Title: *Breathing Disorders Predominately in REM Sleep: "REM Related Apnea"* (February 20, 2004)

Pulmonary and Critical Care Grand Rounds, University of Pittsburgh, Pittsburgh, PA
Title: *The Effects of Smoking on Sleep Architecture* (April 01, 2014)

National Meeting of the American Thoracic Society, Orlando, FL
Title 1: *Insulin Resistance, Obesity, and OSA: "Cause or Common Soil"* (May 23, 2004)
Title 2: *Arousals, Snoring, and Other PSG Abnormalities as they relate to Metabolic Dysfunction* (May 26, 2004)

National Meeting of the Endocrine Society, New Orleans, LA
Title: *Epidemiology of Sleep Disorders and Insulin Resistance* (June 19, 2004)

Ninth International Meeting on Sleep & Breathing, New Port, RI (October 14, 2004)
Title: *The relative contribution of apneas and hypopneas to prevalent cardiovascular disease*
Advanced Sleep Medicine Course – American Academy of Sleep Medicine, Miami, FL
Title: *Sleep Apnea, Insulin Resistance, and Metabolic Syndrome* (February 4, 2005)

National Meeting of the Associated Professional Sleep Societies, Denver, CO
Title 1: *Sleep and Glucose homeostasis as part of the Year in Review* (June 19, 2005)
Title 2: *The Relationship between Sleep Apnea and the Metabolic Syndrome* as part of a symposium entitled "Obesity and Sleep Apnea – A Progressive Epidemic" (June 23, 2005)

2003

National Meeting of the Associated Professional Sleep Societies, Chicago, IL
Title: *Insulin resistance and obstructive sleep apnea* (January 5, 2003)

Seventh World Congress on Sleep Apnea, Helsinki, Finland
Title 1: *Is sleep-disordered breathing a synergistic risk factor for cardiovascular disease?* (June 30, 2003)
Title 2: *Sleep-Disordered Breathing, Glucose Tolerance, and Insulin Resistance: Lessons from the Sleep Heart Health Study* (July 3, 2003).

Annual Meeting - North American Association for the Study of Obesity, Ft. Lauderdale, FL.
Title: *Effects of Obstructive Sleep Apnea on Glycemic Control* (October 11, 2003)

2002

Endocrinology Seminar, University of Chicago School of Medicine, Chicago, IL
Title: *Sleep-disordered breathing and cardiovascular disease* (April 01, 2002)

American Thoracic Society Meeting, Atlanta, GA
Title: *The association between sleep-disordered breathing and insulin resistance* (May 18, 2002)

Eight International Symposium of Sleep and Breathing, Reykjavik, Iceland
Title: *Sleep-disordered breathing and insulin resistance: From man to mouse* (June 01, 2002)

Department of Population Sciences, University of Chicago, Chicago, IL
Title: *The Clinical and Epidemiologic Identification of Sleep Apnea* (December 11, 2002)

Division of Sleep Medicine, University of Pennsylvania, Philadelphia, PA
Title: *Gender differences in the physiologic expression of sleep-disordered breathing* (February 21, 2002)

2001

Conjoint Clinic, Johns Hopkins Hospital, Baltimore, MD
Title: *Snoring and Sleep Apnea: What's All the Noise About?* (March 01, 2001)

Medical Grand Rounds, Johns Hopkins Hospital, Baltimore, MD
Title: *Sleep Apnea: To Treat or Not to Treat.* (March 09, 2001)

Update in Pulmonary & Critical Care Medicine, Johns Hopkins University, Jackson Hole, WY
Title 1: *A Case from the Wards* (August 12, 2001)
Title 2: *Update in Sleep Disorders* (August 14, 2001)

Harbor Hospital Medical Grand Rounds, Baltimore, MD
Title: *The Clinical Burden of Sleep-Disordered Breathing* (September 28, 2001)

2000

Research Seminar, University of Calgary, Calgary, Canada
Title: *Does REM-apnea Contribute to Daytime Sleepiness?* (January 13, 2000)

1999

National Meeting of the Associated Professional Sleep Societies, Orlando, FL
Title: *Sleep-Wake Disorders in Regional Sleep Centers: A National Cooperative Study* (June 06, 1999)

American Association for Respiratory Care National Meeting, Las Vegas, NV
Industry Round Table Conference.
Title: *The Burden of Sleep-Disordered Breathing* (December 08, 1999)