

### List of Publications - Sleep

1. Schnall RP, Shlitner A, Sheffy J, Kedar R, Lavie P. **Periodic, Profound Peripheral Vasoconstriction – A New Marker of obstructive Sleep Apnea.** *SLEEP* 1999; 22(7):939-46.
2. Lavie P, Shlitner A, Sheffy J, Schnall RP. **Peripheral Arterial Tonometry: A novel and sensitive non-invasive monitor of brief arousals during sleep.** *IMAJ* 2000; 2(3):246-7.
3. Lavie P, Schnall RP, Sheffy J, Shlitner A. **Peripheral Vasoconstriction during REM sleep detected by a novel plethysmographic method.** *Nature Medicine* 2000; 6(6):606.
4. Penzel T, Brandenburg U, Fricke R, Peter JH. **New methods for the non-invasive assessment of sympathetic activity during sleep.** *Somnologie* 2002; 6(2):69-73.
5. Dvir I, Adler Y, Freimark D, Lavie P. **Evidence for fractal correlation properties in the variations of peripheral arterial tone during REM sleep.** *American Journal of Physiology* 2002; 283(1):H434-H439.
6. Pillar G, Bar A, Shlitner A, Schnall RP, Sheffy J, Lavie P. **Autonomic Arousal Index (AAI): An Automated Detection based on Peripheral Arterial Tonometry.** *SLEEP* 2002; 25(5):543-549.
7. Freimark D, Adler Y, Sheffy J, Schechter D, Schwammenthal E, Motro M, Lavie P. **Oscillations in peripheral arterial tone in CHF patients: A new marker for Cheyne-Stokes breathing.** *Cardiology* 2002; 98(1-2):21-4.
8. O'Donnell CP, Allan L, Atkinson P, Schwartz AR. **The effect of upper airway obstruction and arousal on Peripheral Arterial Tonometry in Obstructive Sleep Apnea.** *Am J Respir Crit Care Med* 2002; 166(7):965-71.
9. Pillar G, Bar A, Bettito M, Schnall R, Dvir I, Sheffy J, Lavie P. **An automatic ambulatory device for detection of AASM defined arousals from sleep: the WP100.** *Sleep Medicine* 2003; 4(3):207-212.
10. Bar A, Pillar G, Dvir I, Sheffy J, Schnall RP, Lavie P. **Evaluation of a Portable Device Based on Peripheral Arterial Tone for Unattended Home Sleep Studies.** *Chest* 2003; 123(3): 695-703.
11. Pillar G, Schuscheim G, Weiss R, Malhotra A, McCowen KC, Shlitner A, Peled N, Shehadeh N. **Interactions between hypoglycemia and sleep architecture in children with type 1 diabetes mellitus.** *J Pediatr* 2003; 142(2):163-168.

12. Ayas N. TA, Pittman S, MacDonald M, White D. **Assessment of a Wrist-worn Device in the Detection of Obstructive Sleep Apnea.** *Sleep Medicine* 2003; 4(5):435-442.
13. Margel D, White D, Pillar G. **long-Term intermittent exposure to high ambient CO2 causes respiratory disturbances during sleep in submariners.** *Chest* 2003; 124(5):1716-1723.
14. Zou D, Grote L, Eder ND, Peker Y, Hedner J. **Obstructive Apneic Events Induce Alpha-receptor Mediated Digital Vasoconstriction.** *SLEEP* 2004; 27(3):485-489.
15. Tauman R, O'Brien ML, Mast TB, Holbrook CH, Gozal D. **Peripheral Arterial Tonometry Events and EEG Arousals in Children.** *SLEEP* 2004; 27(3):502-506.
16. Pittman DS, Ayas NT, MacDonald MM, Malhotra A, Fogel RB, White D. **Using a Wrist-Worn Device Based on Peripheral Arterial Tonometry to Diagnose Obstructive Sleep Apnea: In-Laboratory and Ambulatory Validation.** *SLEEP* 2004; 27(5):923-933.
17. Hedner J, Pillar G, Pittman DS, Zou D, Grote L, White D. **A Novel adaptive wrist actigraphy algorithm for Sleep-Wake assessment in sleep apnea patients.** *SLEEP* 2004; 27(8):1560-1566.
18. Penzel T, Kesper K, Pinnow I, Becker HF, Vogelmeier C. **Peripheral arterial tonometry, oximetry and actigraphy for ambulatory recording of sleep apnea.** *Physiol Meas.* 2004; 25(4):1025-1036.
19. Zou D, Grote L, Peker Y, Lindblad U, Hedner J. **Validation a Portable Monitoring Device for Sleep Apnea Diagnosis in a Population Base Cohort Using Synchronized Home Polysomnography.** *SLEEP* 2006; 29(3):367-374.
20. Yinon D, Levenstein L, Suraya S, Beloosesky R, Zmora O, Malhotra A, Pillar G. **Pre-eclampsia toxemia is associated with sleep disordered breathing and endothelial dysfunction.** *European Respiratory Journal* 2006; 27(2):328-333.
21. Pittman S.D, Pillar G, Berry RB, Malhotra A, MacDonald MM, White DP. **Follow-Up Assessment of CPAP Efficacy in Patients with Obstructive Sleep Apnea using an Ambulatory Device Based on Peripheral Arterial Tonometry.** *Sleep and Breathing* 2006; 10(3):123-131.
22. Itzhaki S, Dorchin H, Clark GT, Lavie I, Lavie P, Pillar G. **The Effects of One Year Treatment with a Herbst Mandibular Advancement Splint on Sleep Apnea, Oxidative Stress and Endothelial Function.** *CHEST* 2007; 131:740-749.

23. Townsend D, Sharma A, Brauer E, Scattarelli D, McEiver J, Eiken T, Freiberg M. **Assessing Efficacy, Outcomes , and Cost Savings for Patients with Obstructive Sleep Apnea Using Two Diagnostic and Treatment Strategies.** *Sleep Diagnosis and Therapy 2007; 1(7):1-8.*
24. Herscovici S, Peer A, Papyan S, Lavie p. **Detecting REM sleep from the finger: automatic REM sleep algorithm based on Peripheral Arterial Tone (PAT) and actigraphy.** *Physiol Meas 2007; 28(2): 129-140.*
25. O'Brien L. M., Gozal D. **Potential Usefulness of Noninvasive Autonomic Monitoring in Recognition of Arousals in Normal Healthy Children.** *Journal of Clinical Sleep Medicine 2007; 3(1):41-47.*
26. Minal R. Patel, BA, Thomas H. Alexander, MD, MHS, Terence M. Davidson, MD **Home sleep testing.** *Otolaryngology 2007; 18:33-51.*
27. Kenny P. Pang, Christine G. Gourin and David J. Terris. **A comparison of polysomnography and the WatchPAT in the diagnosis of obstructive sleep apnea .***Otolaryngology - Head and Neck Surgery 2007; 137(4): 665-668*
28. Madani M, Frank M, Lloyd R, Madani F. **Polysomnography versus Home Sleep Study: Overview and Clinical Application.** *Atlas of the oral and maxillofacial surgery clinics of North America 2007; 15(2):101-109*
29. White DP. **Monitoring peripheral arterial tone (PAT) to diagnose sleep apnea in the home.** *J Clin Sleep Med. 2008;4(1):73*
30. Ma'ayan Bresler, Koby Sheffy, Giora Pillar, Meir Preiszler, Sarah Herscovici **Differentiating between light and deep sleep stages using an Ambulatory Device Based on Peripheral Arterial Tonometry.** *Physiol Meas. 2008; 29(5): 571-584.*
31. Lior Lowenstein, Kimberly Kenton, Linda Brubaker, Giora Pillar, Nidhi Undevia, Elizabeth R. Mueller, Mary Pat FitzGerald. **The relationship between obstructive sleep apnea, nocturia, and daytime overactive bladder syndrome in women.** *Am J Obstet Gynecol 2008; 198(5): 598.e1-5.*
32. Richard B. Berry, Gilbert Hill, Linda Thompson, Valorea McLaurin, Malcom Randall. **Portable Monitoring and Autotitration versus Polysomnography for the Diagnosis and Treatment of Sleep Apnea.** *SLEEP 2008; 31(10):1423-1431.*
33. Zou D, Grote L, Radlinski J, Eder DN, Lindblad U, Hedner J. **Nocturnal pulse wave attenuation is associated with office blood pressure in a population based cohort.** *Sleep medicine 2009; 10(8):836-43*

34. Pepin JL, Tamisier R, Borel JC, Baguet JP, Levy P. **A critical review of peripheral arterial tone and pulse transit time as indirect diagnostic methods for detecting sleep disordered breathing and characterizing sleep structure.** *Curr Opin Pulm Med.* 2009; 15(6):550-558.
35. Choi JH, Kim EJ, Kim YS, Choi J, Kim TH, Kwon SY, Lee HM, Lee SH, Shin C, Lee SH. **Validation study of portable device for the diagnosis of obstructive sleep apnea according to the new AASM scoring criteria: Watch-PAT 100.** *Acta Otolaryngologica* 2010. Epub
36. Barrera JE, Holbrook AB, Santos J, Popelka GR. **Sleep MRI: novel technique to identify airway obstruction in obstructive sleep apnea.** *Otolaryngol Head Neck Surg.* 2009; 140(3):423-5.

### List of Abstracts- Sleep

1. Schnall RP, Shlitner A, Kedar R, Lavie P. **Apnea related profound peripheral vasoconstriction – a new marker of obstructive sleep apnea (OSA).** *SLEEP* 1998; 21(1):187.
2. Shlitner A, Schnall RP, Sheffy J, Lavie P. **Apnea detection based on computerized analysis of regional hemodynamic changes.** *Journal of Sleep Research* 1998; 7:248.
3. Pillar G, Malhotra A, Fogel R, Hilton MF, Pittman SD, Secondary J, White DP. **Detection of obstructive sleep disordered breathing events utilizing peripheral arterial Tonometry and Oximetry.** *SLEEP* 2000; 23 (Suppl.):A267 (1304).
4. Lavie P, Schnall RP, Sheffy J, Shlitner A. **Peripheral vasoconstriction: a new physiological marker of REM sleep.** *Journal of Sleep Research* 2000; 9 (Suppl.):113.
5. Hedner, J. L. Grote, Z. Ding, H. Kraiczi. **A finger plethysmographic method for continuous monitoring sympathetic vascular tone in obstructive sleep apnea.** *Journal of Sleep Research* 2000; 9 (Suppl. 1):158.
6. Pillar G, Malhotra A, Fogel R, Pittman SD, White DP. **Automatic Detection of obstructive sleep-disordered breathing events using peripheral arterial tonometry and oximetry.** *Journal of Sleep Research* 2000; 9 (Suppl. 1):155.
7. O'Donnell CP, Allan L, Atkinson P, Schwartz AR. **Peripheral Arterial Tonometry (PAT) is a Sensitive Indicator of Acute Arousal Responses to Obstructive Sleep Apnea (OSA).** *SLEEP* 2001; 24 (Suppl.):A404 (717).

8. Lavie P, Freimark D, Adler Y, Sheffy J, Schechter D. **Oscillations in Peripheral Arterial Tone in CHF Patients: A New Marker for Cheyne-Stokes Breathing.** *SLEEP 2001; 24 (Suppl.):A395 (700).*
9. Penzel T, Fricke R, Becker HF, Conradt R, Jerrentrup A, Peter JH. **Comparison of Peripheral Arterial Tonometry and Invasive Blood Pressure in Obstructive Sleep Apnea.** *SLEEP 2001; 24 (Suppl.): A264 (450).*
10. Holbrook CR, Pillar G, Burnside MM, Schickel JA, Brooks LJ, Gozal D. **Pulse Arterial Tonometry Identifies REM Sleep in Children; A Preliminary Report.** *SLEEP 2001; 24 (Suppl.):A211 (356).*
11. Pillar G, Shlitner A, Lavie P. **Autonomic Activation Index (AAI) – A New Marker of Sleep Disruption.** *SLEEP 2001; 24 (Suppl.):A109 (176).*
12. Ayas N, Pittman SD, Malhotra A, Pillar G, Stanchina M, Winkelman JW, White DP. **Do Indices of Autonomic Arousal Predict Sleepiness Better than Standard Polysomnographic (PSG) measurements.** *SLEEP 2001; 24 (Suppl.):A91 (146).*
13. Lihhtik E, Lavie P. **REM-related Peripheral Vasoconstriction – Association with Rapid Eye Movement Density.** *SLEEP 2001; 24 (Suppl.):A81 (131).*
14. Penzel T, Fricke R, Becker HF, Jerrentrup A, Peter JH. **Comparison of peripheral tonometry and invasive blood pressure in patients with obstructive sleep apnea.** *Eur. Resp. J. 2001; 18 (Suppl. 33):519.*
15. Penzel T, Brandenburg U, Fricke R, Jerrentrup A, Peter JH. **Periphere arterielle Tonometrie (PAT) zur Erfassung kardiovaskulärer Effekte bei Schlafapnoe.** *Somnologie 2001; 5 (Suppl. 2):42.*
16. Penzel T. **Neue Methoden zur Messung des Sympathikotonus im Schlaf.** *Somnologie 2002; 6 (Suppl.1):25-26.*
17. Penzel T, Fricke R, Jerrentrup A, Peter JH, Vogelmeier C. **Peripheral Arterial Tonometry And Invasive Blood Pressure In Obstructive Sleep Apnea.** *16-th International EURASIP conference Biosignal 2002 proceedings: 30-32.*
18. Nave R, Lavie P. **Peripheral Arterial Tonometry (PAT) – A new marker for detecting PLMS – Related Arousal.** *Journal of Sleep Research 2002; 11(Suppl. 1):1-260 (186).*
19. Pittman SD, Pillar G, Ayas NT, Suraiya S, Malhotra A, White DP. **Diagnosis of obstructive sleep apnea in the home using a wrist-mounted device with automated analysis of peripheral arterial tonometry, pulse oximetry and actigraphy?** *Journal of Sleep Research 2002; 11 (Suppl.):1-260, 180.*

20. Pillar G, Schuscheim G, Weiss R, Malhotra A, Shlitner A, Peled N, Shehadeh N. **Paradoxical Effects of Hypoglycemia on Sleep Regulation in children with type 1 diabetes mellitus.** *Journal of Sleep Research 2002; Vol. 11 (Suppl.):1-260, 179.*
21. Pillar G, Bettito M, Bar A, Sheffy J, Lavie P. **An automatic ambulatory device for detection of ASDA defined arousals from sleep: The WP 100.** *Journal of Sleep Research 2002; 11 (Suppl.):1-260, 178.*
22. Grothe L, Zou D, Murphy P, Peker Y, Hedner J. **Detection of sleep disordered breathing in a general population based on the pulse amplitude.** *Journal of Sleep Research 2002; 11 (Suppl.):1-260, 87.*
23. Dvir I, Herscovici S, Sheffy J, Lavie P. **Automatic detection of sleep-wake using high resolution wrist actigraphy signal.** *Journal of Sleep Research 2002; 11 (Suppl.):1-260, 57.*
24. Dvir I, Adler Y, Freimark D, Lavie P. **Evidence for fractal correlation properties in the variations of peripheral arterial tone during REM sleep.** *Journal of Sleep Research 2002; 11 (Suppl.):1-260, 56.*
25. Bar A, Pillar G, Dvir I, Sheffy J, Lavie J. **Validation of Ambulatory Device for Sleep apnea detection based on Peripheral Arterial Tone.** *Journal of Sleep Research 2002; 11 (Suppl.):1-260, 12.*
26. Penzel T, Fricke R, Jerrentrup A, Peter JH, Vogelmeier C. **Peripheral arterial tonometry for the diagnosis of obstructive sleep apnea.** *Biomed. Technik 2002; 47 (Ergbd. 1):315-317.*
27. Dvir I, Adler Y, Freimark D, Lavie P. **Evidence for fractal correlation properties in the variations of peripheral arterial tone during REM sleep.** *SLEEP 2002; 25 (Suppl.):A413 (582).*
28. Grote LB, Ding Z, Murphy P, Peker P, Lindblad U, Hedner J. **Detection of sleep disordered breathing in a general population based on the peripheral arterial tone.** *SLEEP 2002; 25 (Suppl.):A352 (491).*
29. Tauman R, O'Brien LM, Holbrook CR, Bruner J, Pillar G, Gozal D. **Pulse arterial tonometry (PAT) signal attenuation events and EEG arousals in children: Preliminary observations.** *SLEEP 2002; 25 (Suppl.):A312 (430).*
30. Ivanenko A, O'Brien LM, Holbrook CR, Bruner J, Klaus CJ, Pillar G, Gozal D. **EEG Spectral changes during peripheral tonometry (PAT) attenuation events in 6-year old children.** *SLEEP 2002; 25 (Suppl.):A311 (428).*

31. Van Someren EJ, Raymann R, Drosopoulos S, Collins S, Vis R, van Krevelen G, Swaab D. **Effect of body temperature manipulation on pulse-wave amplitude and sleep onset latency.** *SLEEP 2002; 25 (Suppl.):A128 (170).*
32. Bar A, Pillar G, Dvir I, Sheffy J, Lavie P. **Automatic detection of sleep apnea based on peripheral arterial tonometry: In lab polysomnographic validation.** *SLEEP 2002; 25 (Suppl.): A48 (65).*
33. Pittman SD, Pillar G, Ayas NT, Suraiya S, Malhotra A, White DP. **Can obstructive sleep apnea be diagnosed in the home using a wrist-mounted device with automated analysis of peripheral arterial tonometry, pulse oximetry, and actigraphy?** *SLEEP 2002; 25 (Suppl.):A42 (57).*
34. Pillar G, Bettito M, Bar A, Sheffy J, Lavie P. **An automatic ambulatory device for detection of ASDA defined arousals from sleep: The WP 100.** *SLEEP 2002; 25 (Suppl.):A37 (48).*
35. Ding Z, Grote L, Eder D, Hedner J. **Obstructive apneic events induce alpha receptor mediated vascular constriction.** *SLEEP 2002; 25 (Suppl.):A5 (7).*
36. Penzel T, Fricke R, Branderburg U, Becker HF, Vogelmeier C. **Peripheral Arterial Tonometry Monitors Changes of Autonomous Nervous System in Sleep Apnea.** *Proceedings of the Second Joint EMBS/BMES 2002.*
37. Pillar G, Bar A, Sheffy K, Lavie P. **The Portable Device Watch-PAT100 is accurate in detection of respiratory disturbances in stable CPAP users.** *SLEEP 2003; 26: A388 (977).*
38. O'brien L.M., Gozal D. **Potential usefulness of noninvasive autonomic monitoring in recognition of arousals in children.** *SLEEP 2003; 26 (Suppl.):A125 (310).*
39. Lavie P, Papyan S, Dvir I. **Picking REM from the finger: an automatic algorithm to identify REM sleep based on measurements of peripheral arterial tone (PAT).** *SLEEP 2003; 26 (Suppl.):A385 (971).*
40. Margel D, White P.D, Pillar G. **Change in apnea threshold in response to long-term intermittent exposure to high ambient co2 in submarine soldiers.** *SLEEP 2003; 26 (Suppl.):A50 (121).*
41. Medina M, Liendo C. **Automated Detection of OSA using Peripheral Arterial Tone: In-Lab Polysomnographic Validation on a VA Medical Center Population.** *SLEEP 2003; 26 (Suppl.):A266 (670).*

42. Pittman SD, Ayas NT, MacDonald MM, Malhotra A, White DP. **Diagnosing OSA with a Simple Device Based on Peripheral Arterial Tone: In-Lab Polysomnographic Validation and Ambulatory Studies in the Home.** *SLEEP 2003; 26 (Suppl.):A395 (995).*
43. Murphy P, Hedner J, Grote L, Rastam L, Lindblad U. **Diagnosis of Obstructive Sleep Apnea syndrome in a general population using an automatic ambulatory device for home recording.** *SLEEP 2003; 26 (Suppl.):A271 (682).*
44. Duntley S, Uhles M, Peters M, Kryger M. **Laboratory and home Validation of a Portable Unattended Sleep Recorder, Using Automatic Analysis.** *SLEEP 2003; 26 (Suppl.):A402 (1014).*
45. Dvir I, Pappan S, Bar A, Lavie P. **Picking REM from the Finger: Automatic detection of REM sleep based on Peripheral Arterial Tone (PAT).** *Sleep Apnea congress Helsinki, Sleep Medicine 2003; 4 (suppl.1):S11.*
46. Hamburger H.L., Wicks D, Harten L. **Clinical experience with the Watch-PAT100, an ambulatory device based on Peripheral Arterial Tone: recommended guidelines.** *Sleep Apnea congress Helsinki, Sleep Medicine 2003; 4 (suppl.1):S15-S16.*
47. Suraya S, Peled R, Lavie P. **The Portable Device Watch-PAT100 is accurate in detection of respiratory disturbances in stable CPAP users.** *Sleep Apnea congress Helsinki, Sleep Medicine 2003; 4 (suppl.1):S45.*
48. Roisman, G L; Monasterio Ponsa, C; Oltean, V; Abdelghani, A; Escourrou, P. **Sleep disordered breathing index obtained from polysomnography and peripheral arterial tonometry** *Sleep Apnea congress Helsinki 2003.*
49. Penzel T, Jerrentrup A, Fus E, Becker HF, Vogelmeier C. **Ambulatory Peripheral Arterial Tonometry for the Detection of Sleep Apnea.** *Medical Physics and Bio-Medical Engineering 2003.*
50. Yinon D, Lowenstein L, Schnall B, Suraiya S, Bloeski R, Zmora O, Malhotra A, Pillar G. **Pre-Eclamptic Toxemia Tend To Be Associated With Sleep Disordered Breathing And Endothelial Dysfunction As Determined By The Peripheral Arterial Tone.** *SLEEP 2004; 27 (Suppl.):A178 (390).*
51. Spiegel E, Pillar G. **Substantial Improvement In Obstructive Sleep Apnea Using Two Different Oral Appliances Assessed By The Watch-PAT Ambulatory Device.** *SLEEP 2004; 27 (Suppl.):A178 (391).*
52. Itzaki S, Pillar G, Lavie L, Lavie P. **Endothelial dysfunction in sleep apnea patients assessed by Reactive Hyperemia Peripheral Arterial Tonometry.** *SLEEP 2004; 27 (Suppl.):A179 (394).*

53. Oltean V, Abdendi F, Catteau F, Roisman G, Marechal D, Medigue C, Pinguet J, Escourrou P. **Arousal Detection By Analysis Of Autonomic Markers In Sleep Disordered Breathing.** *SLEEP 2004; 27 (Suppl.):A186 (410).*
54. Dhawan R, Liendo C, Pittman S. **Comparison of a Portable Device based on Peripheral Arterial Tonometry to Standard Level 3 Cardiopulmonary Screening for Obstructive Sleep Apnea in a VA Medical Center Population.** *SLEEP 2004; 27 (Suppl.):A190 (419).*
55. Hedner J, Pillar G, Hershcovici S, Dvir I, Bar A, Ding Z, Pittman S, Sheffy K, Lavie P, White DP. **A Novel Adaptive Wrist Actigraphy Algorithm for Sleep-Wake Detection in Sleep Apnea Patients.** *SLEEP 2004; 27 (Suppl.):A354 (791).*
56. Grote L, Zou D, Peker Y, Lindblad U, Bar A. **Nocturnal Finger Arterial Tonometry And Its Relation To Daytime Blood Pressure And The Presence Of Hypertension.** *2004; 27 (Suppl.):A363 (812).*
57. Pillar G, Spiegel EP. **Substantial improvement in obstructive sleep apnea using two oral appliances, assessed by the WP100 device.** *Otolaryngol Head Neck Surg 2004; 131(2):57.*
58. D. Townsend, A. Sharma, M. Freiberg, J. Miller, E. Brauer, D. Scattarelli, R. Sohl-Kreiger, J. McEiver, T. Eiken. **Efficacy and Cost Savings of Ambulatory versus In-laboratory Obstructive Sleep Apnea Diagnosis and Treatment.** *SLEEP 2005; 28 (Suppl.):A188 (558).*
59. S.D. Pittman, G. Pillar, RB Berry, A Malhotra, MM MacDonald, DP White. **Follow-Up Assessment of CPAP Efficacy in Patients with Obstructive Sleep Apnea using an Ambulatory Device Based on Peripheral Arterial Tonometry.** *SLEEP 2005; 28 (Suppl.):A166 (491).*
60. Tzischinsky O, Epstein R, Herer P, Pillar G, Adami H, Lavie P, Naveh R. **Sleep Disturbances In Nurses Working Shifts: Lack Of Relationship Between Subjective Complaints And Objective Sleep Recordings.** *SLEEP 2005; 28 (Suppl.):A65 (194).*
61. Hamburger H, Suraiya S, Harten L. **Detection of Sleep Apnoea Syndrome by Using The Watch-Pat Device.** *SLEEP 2005; 28 (Suppl.):A198 (588).*
62. Hamburger H, Suraiya S, Harten L. **Replacing Polysomnography With Watch\_Pat100 For Sleep Apnea Diagnosis Resulted In Considerable Savings.** *SLEEP 2005; 28 (Suppl.):A190 (565).*

63. Keropian B, Warren D, Tache D, Hansen C, Spigel EP, Merahn S, Pillar G. **A Novel Oral Appliance Fitted To the Upper Jaw Shows Substantial Improvement. In Obstructive Sleep Apnea.** *SLEEP 2005; 28 (Suppl.):A190 (563).*
64. Morgenthaler T, Lerman A. **Endothelial Dysfunction Assessed By Peripheral Arterial Tonometry In Obstructive Sleep Apnea Patients Improves With CPAP Therapy.** *SLEEP 2005; 28 (Suppl.):A177 (525).*
65. Yinon D, Levenstein L, Suraya S, Malhotra A, Pillar G. **Pre-eclamptic toxemia is associated with sleep disordered breathing and endothelial dysfunction.** *IFOS 2005.*
66. Keropian B, Warren D, Tache D, Chris H, Spiegel E, Merahn S, Pillar G. **A novel oral appliance fitted to the upper jaw shows substantial improvement in obstructive sleep.** *IFOS 2005.*
67. Hamburger H, Suraiya S, Harten L. **Replacing PSG with Watch-PAT for sleep apnea diagnosis resulted in considerable saving.** *IFOS 2005.*
68. Pillar G, Sheffy J. **The Portable Device Watch-PAT 100 is accurate in detection of respiratory disturbances in stable CPAP users.** *IFOS 2005.*
69. Herscovici S, Papyan S, Pe'er A, Lavie P. **Picking REM from the finger – Further improvement of the algorithm using an advanced predicting function.** *SLEEP 2006; 29 (Suppl.):A343 (1004).*
70. Itzhaki S, Dorcin H, Clark G, Lavie L, Lavie P, Pillar G. **One-year treatment with a Herbest mandibular advancement splint improves Obstructive Sleep Apnea and endothelial function.** *SLEEP 2006; 29 (Suppl.):A164 (480).*
71. Lavie P. **Peripheral arterial tone during sleep.** *European Sleep Research Society 2006, JSR 15 (Suppl. 1), 1-253:13.*
72. El kharoubi Adnan. **Clinical Examination and Home Sleep Screening are enough for the otolaryngological decision in diagnosis and treatment of OSAS.** *WASM 2nd International Congress 2006.*
73. Pillar G, Etzioni T. **Sleep disordered breathing events are robustly associated with autonomic activations in children with OSA.** *EUFOS 2007.*
74. Itzhaki S, Clark G, Dorcin H, Lavie L, Pillar G. **One-year treatment with a Herbest mandibular advancement splint improves Obstructive Sleep Apnea and Endothelial Function.** *EUFOS 2007.*

75. Pillar G, Olszakier M, Kamami Y. **Laser-assisted uvulopalatoplasty shows substantial improvement in obstructive Sleep Apnea.** *EUFOS 2007.*
76. Kamami Y, Pandraud L. **The portable device WATCH-PAT100 used to detect respiratory disturbances in an outpatient snoring clinic: preliminary results.** *EUFOS 2007.*
77. Etzioni T, Suraiya S, Pillar G. **Sleep disordered breathing events are associated with autonomic activations in children with OSA.** *SLEEP 2007; 30 (Suppl.):A68 (196).*
78. Pe'er A, Pillar G, Herscovici S, Preiszler M, Lusky R, Sheffy K. **Direct Placement for Body Position Sensor on the Chest, Provides More Reliable Information During a Sleep Study.** *SLEEP 2007; 30 (Suppl.):A343 (1002).*
79. Bar A, Suraiya S, Pillar G. **Selective serotonin reuptake inhibitors reduce eye movements but autonomic REM sleep remains intact.** *SLEEP 2007; 30 (Suppl.):A29 (83).*
80. Pillar G. **Title Sleep Apnea results in autonomic activation in children.** *OTO 2007.*
81. Pillar G. **Title Oral appliance improves Sleep Apnea and Endothelial Function.** *OTO 2007.*
82. R Drigo, E Enzo, A Ferraresso, G Sasso, F M Zambotto **Accuratezza diagnostica del WATCH\_PAT100 vs Polisonnografia in una popolazione selezionata di pazienti con sospetto disturbo respiratorio.** *XVII AIMS Congresso Nazionale 2007*
83. Roisman G.L., Maréchal D., Depoortere P-H., Balekji Z., Escourrou **REM sleep estimation by Peripheral arterial tonometry (PAT system) and respiratory event analysis.** *France Congress in Nante*
84. Alona Sokolovsky, Marina Gorochoy, Giora Pillar, Sarah Herscovici. **Morphological differences between PLM, apnea, and basic autonomic activation events in the channels recorded by the WATCH-PAT device.** *SLEEP 2008; 31 (Suppl.):A269 (0821).*
85. S Herscovici, M Bresler, G Pillar, R Lusky, K Sheffy. **PAT Hypnogram: Sleep stages assessment using Peripheral Arterial Tone and Actigraphy.** *SLEEP 2008; 31 (Suppl.):A139 (0416).*
86. T. Siegel, D. Etedgi, G. Pillar, M. Preiszler, S. Negry, Sarah Herscovici. **Two integrated sensors in a small device for the measurement of body position and snoring during sleep studies.** *SLEEP 2008; 31 (Suppl.):A335 (01017).*

87. Y. Shay-El, G. Pillar, Y. Reisner, R. P. Schnall, S. Peleg, Sarah Herscovici. **Decreased arterial stiffness in long-term CPAP treated male obstructive sleep apnea patients as measured by overnight digital arterial tonometry monitoring.** *SLEEP 2008; 31 (Suppl.):A157 (0472).*
88. A. Sokolosky, M. Gorochoy, K. Sheffy, G. Pillar, S. Herscovici. **Hierarchical differences in peripheral arterial tone during night as measured by the WATCH-PAT device, during PLM, apnoea and spontaneous activation.** *ENS 2008 congress for the session of Coma and sleep disorders.*
89. Siegel Tamar, Etedgi Dikla, Pillar Giora, Preizler Meir, Negry Shabbtay, Herscovici Sarah. **A new method for detecting body position during sleep.** *ESRS 2008.*
90. Sokolovsky Alona, Gorochoy Marina, Pillar Giora, Herscovici Sarah. **Differences between spontaneous autonomic activation, PLM events and apnea events using the Watch-PAT00 channels.** *ESRS 2008.*
91. Herscovici, Sarah; Bresler, Ma'ayan; Pillar, Giora; Sheffy, Koby. **Detection of Sleep stages using Peripheral Arterial Tone (PAT) signal.** *ESRS 2008.*
92. Shay-El, Yuval; Sheffy, Koby; Pillar, Giora; Schnall, Bob; Reisner, Yotam; Herscovici, Sarah. **Decreased arterial stiffness in CPAP treated patients as measured by Augmentation Index (AI) derived from Peripheral Arterial Tone (PAT) signal.** *ESRS 2008.*
93. Aronson D, Zeidan-Shweri T, Lavie L, Lavie P. **Clinical correlates of sleep disordered breathing in patients with acute myocardial infarction.** *SLEEP 2008; 31 (Suppl.): 141(0424).*
94. Pillar G, Itzhaki S, Shlizerman L. **Endothelial function as a prognostic factor of cardiovascular morbidity in patients with obstructive sleep apnea syndrome.** *APSS 2009 oral presentation June 8 4:30pm - 4:45pm. (501)*
95. J Hedner, G Pillar, A Malhotra, S D Pittman, D Zou, L Grote, D P White. **Sleep staging based on autonomic signals – a multi-center blinded validation study.** *APSS 2009 oral presentation June 9 1:45pm - 2:00pm. (1121)*
96. K. Sheffy. **PAT Technology in Cardiovascular and Sleep Applications.** *ICI 2009. Poster*