




**OCTOBER 7-11, 2017 • PRAGUE, CZECH REPUBLIC**  
A JOINT CONGRESS OF WORLD ASSOCIATION OF SLEEP MEDICINE AND WORLD SLEEP FEDERATION

---

# **Official Abstracts of World Sleep 2017 Congress October 7-11, 2017**

---

**WORLD  
SLEEP SOCIETY**  
ADVANCING SLEEP HEALTH WORLDWIDE

**3270 19th Street NW • Suite 109 • Rochester, MN 55901 USA**  
[worldsleepcongress.com](http://worldsleepcongress.com)

**P1 - Monday - BR - Board #036**

*Presenting Author: Markus Schmidt (Switzerland)*

EFFECT OF AMBIENT TEMPERATURE ON REM SLEEP AND CATAPLEXY-LIKE EVENTS IN HYPOCRETIN KNOCKOUT MICE.  
N. Komagata<sup>1</sup>, M. Schmidt<sup>2,3</sup>

**P1 - Monday - BR - Board #037**

*Presenting Author: Koichi Shirakawa (Japan)*

THE RELATION WITH A SLEEP GENE AND THE LIFE GENE. ON GENETIC INTERACTION BY THE SYSTEMS BIOLOGICAL ANALYSIS  
K. Shirakawa<sup>1,2</sup>, H. Izawa<sup>3</sup>, N. Sotozaki<sup>3</sup>, T. Matsuoka<sup>3</sup>

**P1 - Monday - BR - Board #038**

*Presenting Author: Lal Chandra Vishwakarma (India)*

EFFECT OF SLEEP DEPRIVATION ON HYPOTHALAMIC, CORTICAL AND BODY TEMPERATURE IN RATS  
L.C. Vishwakarma, A. Das, B. Sharma, M. Mirdha, A. Jaryal, H.N. Mallick

**P1 - Monday - BR - Board #039**

*Presenting Author: Xiang-Shan Yuan (China)*

STRIATAL ADENOSINE A<sub>2A</sub> RECEPTOR NEURONS REGULATE SLEEP BEHAVIOR  
X.-S. Yuan<sup>1</sup>, L. Wang<sup>1</sup>, H. Dong<sup>1</sup>, R.-L. Li<sup>2</sup>, W.-M. Qu<sup>1</sup>, Z.-L. Huang<sup>1</sup>

**P1 - Monday - CD - Board #040**

*Presenting Author: Pablo Brockmann (Chile)*

SEASONAL CHANGES IN SOMNOLENCE, CHRONOTYPE, AND PUPILLOGRAPHIC INDICES IN MEDICAL STUDENTS  
P. Brockmann, F. Nunez

**P1 - Monday - I - Board #041**

*Presenting Author: Jens Acker (Switzerland)*

HANDHELD MOBILE BIOFEEDBACK OF HEART RATE VARIABILITY IN PATIENTS WITH CHRONIC INSOMNIA DISORDER - A PILOT STUDY.  
J. Acker<sup>1,2</sup>, A. Nirkko<sup>3,4</sup>, K. Richter<sup>5,6</sup>

**P1 - Monday - I - Board #042**

*Presenting Author: Zahra Banafsheh Alemohammad (Iran, Islamic Republic of)*

QUALITY OF SLEEP IN PATIENTS WITH TYPE 2 DIABETES MELLITUS

Z.B. Alemohammad, A. Khajeh-Mehrzi, K. Sadeghniaat-Haghighi, M.R. Mohajeri-Tehrani, B. Larijani

**P1 - Monday - I - Board #043**

*Presenting Author: Celyne Bastien (Canada)*

DRIVING AFTER ALCOHOL CONSUMPTION IS ASSOCIATED WITH INSUFFICIENT SLEEP AND INSOMNIA AMONG STUDENT ATHLETES AND NON-ATHLETES  
C. Bastien<sup>1</sup>, J. Ellis<sup>2</sup>, A. Athey<sup>3</sup>, S. Chakravorty<sup>4</sup>, R. Robbins<sup>5</sup>, A. Knowlden<sup>6</sup>, J. Charest<sup>1</sup>, M. Grandner<sup>3</sup>

**P1 - Monday - I - Board #044**

*Presenting Author: Danila Caruso (Italy)*

LACK OF RESILIENCE IS RELATED TO HYPERAROUSAL, EMOTION DYSREGULATION AND INCREASED IMPULSIVITY IN INSOMNIA DISORDER  
L. Palagini, D. Caruso, C. Mainardi, G. Cipollone, L. Paolilli, G. Perugi

**P1 - Monday - I - Board #045**

*Presenting Author: Janet Mun Yee Cheung (Canada)*

A SYSTEMATIC REVIEW OF ADAPTIVE COGNITIVE BEHAVIORAL THERAPY FOR INSOMNIA IMPLEMENTED IN PRIMARY CARE SETTINGS  
J.M.Y. Cheung<sup>1</sup>, D.C. Jarrin<sup>1</sup>, O. Ballot<sup>1</sup>, A. Bharwani<sup>2</sup>, C.M. Morin<sup>1</sup>

**P1 - Monday - I - Board #046**

*Presenting Author: Yong Won Cho (Korea, Republic of)*

IS CORMOBID INSOMNIA IN OBSTRUCTIVE SLEEP APNEA LINKED TO HEART DISEASE?  
Y.W. Cho<sup>1</sup>, K.T. Kim<sup>1</sup>, H.-J. Moon<sup>2</sup>, K.I. Yang<sup>3</sup>

**P1 - Monday - I - Board #047**

*Presenting Author: Jack Edinger (United States)*

USE OF BLINDED HYPNOTIC TAPERING PROTOCOLS TO HELP MEDICATION-DEPENDENT INSOMNIA PATIENTS DISCONTINUE THEIR HYPNOTIC USE  
J. Edinger<sup>1,2</sup>, F. Walmboldt<sup>1</sup>, K. Holm<sup>1</sup>, A. Burseson<sup>1</sup>, B. Simmons<sup>1</sup>, S. Tsai<sup>1</sup>, C. Morin<sup>3</sup>

**P1 - Monday - I - Board #048**

*Presenting Author: Jack Edinger (United States)*

IMPACT OF OBJECTIVE SLEEPINESS AND HYPERAROUSAL ON THE DAYTIME PERFORMANCE OF PERSONS WITH INSOMNIA  
J. Edinger<sup>1,2</sup>, C.J. Bathgate<sup>1</sup>

**P1 - Monday - I - Board #049**

*Presenting Author: Karim Fifel (Netherlands)*

SLEEP DEPRIVATION HAS LONG TERM EFFECTS ON NEURONAL ACTIVITY IN HYPOTHALAMIC NUCLEI  
K. Fifel, M. Schoonakker, J. H. Meijer, T. Deboer

**P1 - Monday - I - Board #050**

*Presenting Author: Amanda Hellström (Sweden)*

INITIAL PSYCHOMETRIC TESTING OF THE SLEEP CONDITION INDICATOR IN A SWEDISH CONTEXT  
A. Hellström<sup>1</sup>, P. Hagell<sup>2</sup>, A. Broström<sup>3,4</sup>, M. Ulander<sup>4</sup>, K. Årestedt<sup>1</sup>

**P1 - Monday - I - Board #051**

*Presenting Author: Benjamin Charles Holding (Sweden)*

CHANGES IN SKIN COLOUR AFTER SLEEP DEPRIVATION: OBJECTIVE OR SUBJECTIVE?  
B.C. Holding<sup>1</sup>, T. Sundelin<sup>1</sup>, J. Axelsson<sup>2</sup>

**P1 - Monday - I - Board #052**

*Presenting Author: Markus Jansson-Fröjmark (Sweden)*

PREDICTORS OF SUICIDE RISK IN A SAMPLE WITH INSOMNIA DISORDER  
M. Jansson-Fröjmark<sup>1</sup>, R. Sunnhed<sup>2</sup>

**P1 - Monday - I - Board #053**

*Presenting Author: Heli Järnefelt (Finland)*

NON-PHARMACOLOGICAL INTERVENTIONS OF INSOMNIA AMONG SHIFT WORKERS: AN RCT TRIAL IN OCCUPATIONAL HEALTH SETTING  
H. Järnefelt<sup>1</sup>, M. Härmä<sup>1</sup>, K.-P. Martimo<sup>1</sup>, T. Paajanen<sup>1</sup>, T. Paunio<sup>1,2,3</sup>, M. Sallinen<sup>1,4</sup>, J. Virkkala<sup>1</sup>, C. Hublin<sup>1</sup>

**P3 - Tuesday - PSY - Board #106**

*Presenting Author: Sang Sup Lee (Korea, Republic of)*  
RELATIONSHIP BETWEEN DEPRESSION AND SLEEP PATTERNS OF MIDDLE SCHOOL STUDENT IN KOREA  
S.S. Lee<sup>1</sup>, M.-H. Park<sup>1</sup>, B.-N. Kim<sup>2</sup>

**P3 - Tuesday - PSY - Board #107**

*Presenting Author: Shirley Xin Li (Hong Kong)*  
THE ASSOCIATIONS OF SLEEP DISTURBANCES WITH DIMENSIONAL PSYCHOTIC EXPERIENCES AND QUALITY OF LIFE IN PATIENTS WITH SCHIZOPHRENIA SPECTRUM DISORDERS  
S.X. Li<sup>1</sup>, R. Rong<sup>1</sup>, C.S.Y. Chan<sup>2</sup>, S.P. Lam<sup>2</sup>, J. Zhang<sup>2</sup>, M.W.M. Yu<sup>2</sup>, J.W.Y. Chan<sup>2</sup>, Y.K. Wing<sup>2</sup>

**P3 - Tuesday - PSY - Board #108**

*Presenting Author: Noelia Ruiz Herrera (Spain)*  
QUANTITATIVE ANALYSIS OF SLEEP PATTERNS OF INATTENTIVE AND COMBINED ADHD SUBTYPES. DO EXIST DIFFERENTIATE SLEEP PATTERNS?  
N. Ruiz Herrera<sup>1</sup>, A. Guillén Riquelme<sup>1</sup>, T. Ramiro Sánchez<sup>1</sup>, J.M. Fernández<sup>2</sup>, G. Buela Casal<sup>1</sup>

**P3 - Tuesday - PSY - Board #109**

*Presenting Author: Angelika Schlarb (Germany)*  
SLEEP PROBLEMS IN CHILDHOOD AND ADOLESCENCE AS COMORBID DISORDERS OR RISK FACTORS FOR MENTAL DISORDERS  
A. Schlarb, S. Imort, M. Zschoche

**P3 - Tuesday - PSY - Board #110**

*Presenting Author: Joana Serra (Portugal)*  
WAKING UP TO A SUDDEN DEATH OR WITH PANIC ATTACK?... - A CASE REPORT  
J. Serra<sup>1</sup>, N. Almeida<sup>2</sup>, J. Moita<sup>2</sup>

**P3 - Tuesday - PSY - Board #111**

*Presenting Author: Jacques Taillard (France)*  
KINETICS OF SLEEP PRESSURE BUILDUP DURING CONTROLLED EXTENDED WAKEFULNESS IN SLEEPY ADULT ADHD PATIENTS  
J. Taillard<sup>1</sup>, S. Bioulac<sup>1</sup>, S. Couturier<sup>1</sup>, P. Sagaspe<sup>1</sup>, C. Berthomier<sup>2</sup>, M. Brandewinder<sup>2</sup>, P. Philip<sup>1</sup>

**P3 - Tuesday - PSY - Board #112**

*Presenting Author: Jacques Taillard (France)*  
CHRONOTYPE, CHRONIC SLEEP RESTRICTION, SOCIAL JET LAG AND ADHD SYMPTOMS IN 18436 ACTIVE ADULTS  
J. Taillard<sup>1</sup>, P. Sagaspe<sup>1,2</sup>, S. Bioulac<sup>1,2</sup>, J.-A. Micoulaud-Franchi<sup>1,2</sup>, P. Philip<sup>1,2</sup>

**P3 - Tuesday - PSY - Board #113**

*Presenting Author: Mark Lawrence WONG (Hong Kong)*  
FACTORS CORRELATING WITH CBT-I TREATMENT EFFECT ON NEGATIVE MOOD SYMPTOMS AMONG INDIVIDUALS WITH PSYCHIATRIC CONDITIONS  
M.L. WONG, S. Ng, J. Ngan

**P3 - Tuesday - REM - Board #114**

*Presenting Author: Claudio Liguori (Italy)*  
INVESTIGATING BIOMARKERS FOR PREDICTING THE CONVERSION TO ALPHA-SYNUCLEINOPATHIES IN PATIENTS AFFECTED BY REM SLEEP BEHAVIOR DISORDER: A COMPREHENSIVE ANALYSIS OF CLINICAL, NEUROPSYCHOLOGICAL, NEUROIMAGING, AND CEREBROSPINAL-FLUID DATA.  
C. Liguori<sup>1</sup>, R. Ruffini<sup>1</sup>, A. Chiaravalloti<sup>1</sup>, F. Izzi<sup>1</sup>, F. Assogna<sup>2</sup>, A. Romigi<sup>3</sup>, G. Spalletta<sup>2</sup>, O. Schillaci<sup>1</sup>, N.B. Mercuri<sup>1</sup>, F. Placidi<sup>1</sup>

**P3 - Tuesday - RLS - Board #115**

*Presenting Author: Maria Didriksen (Denmark)*  
COMORBIDITIES TO RESTLESS LEGS SYNDROME – RESULTS FROM THE DANISH BLOOD DONOR STUDY  
M. Didriksen<sup>1</sup>, T. Hansen<sup>2,3</sup>, A. Rigas<sup>1</sup>, R. Allen<sup>4</sup>, B. Burchell<sup>5</sup>, L. Thørrner<sup>1</sup>, K. Nielsen<sup>6</sup>, E. Di Angelantonio<sup>7,8</sup>, M. Nielsen<sup>1</sup>, P. Jennum<sup>9,10</sup>, T. Werge<sup>3,11,12</sup>, C. Erikstrup<sup>13</sup>, O. Pedersen<sup>14</sup>, H. Paarup<sup>15</sup>, H. Hjalgrim<sup>16,17</sup>, M. Bruun<sup>15</sup>, K. Burgdorf<sup>1</sup>, E. Søren

**P3 - Tuesday - RLS - Board #116**

*Presenting Author: Gen Li (China)*  
ASSOCIATION OF BTBD9 AND MAP2K5/SKOR1 WITH RESTLESS LEGS SYNDROME IN CHINESE POPULATION  
G. Li, H. Tang, C. Wang, X. Qi, J. Chen, S. Chen, J. Ma

**P3 - Tuesday - SBD - Board #117**

*Presenting Author: Iana Andreieva (Ukraine)*  
CARDIAC BIOMARKERS IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA SYNDROME AND HEART FAILURE WITH PRESERVED EJECTION FRACTION  
I. Andreieva

**P3 - Tuesday - SBD - Board #118**

*Presenting Author: Solmaz Arshi (Iran, Islamic Republic of)*  
PREVALENCE OF OBSTRUCTIVE SLEEP APNEA AMONG ADULTS IN NORTH-WEST OF IRAN  
S. Arshi<sup>1</sup>, M. Salmani<sup>1</sup>, K. Sadeghniai-Haghighi<sup>1</sup>, A. Najafi<sup>1</sup>, S. Alavi<sup>2</sup>, M. Shamsipour<sup>3</sup>

**P3 - Tuesday - SBD - Board #119**

*Presenting Author: Baran Balcan (Turkey)*  
EFFECT OF ONE-YEAR CPAP TREATMENT ON MOOD IN PATIENTS WITH CORONARY ARTERY DISEASE AND OBSTRUCTIVE SLEEP APNEA  
B. Balcan<sup>1</sup>, E. Thunström<sup>2</sup>, Y. Peker<sup>1,2</sup>

**P3 - Tuesday - SBD - Board #120**

*Presenting Author: Esther Barbero (Spain)*  
MANDIBULAR ADVANCEMENT DEVICE FOR TREATMENT OF OBSTRUCTIVE SLEEP APNEA. COULD IT BE AN ALTERNATIVE IN PATIENTS WITH CPAP INTOLERANCE?  
E. Barbero, F.X. León Román, E. Mañas Baena, D. Barrios, A. Albalat, A. Pedrera, A. Carreño, I. Cano, B. Martin, A. Jaureguizar

**P3 - Tuesday - SBD - Board #121**

*Presenting Author: Joana Batista Correia (Portugal)*  
STOP-BANG QUESTIONNAIRE AS A SCREENING TOOL FOR OBSTRUCTIVE SLEEP APNEA  
J. Batista Correia, C. Santos, J. Vale, I.G. Pereira, M. Conceição, A. Dias Cunha, T. Abrantes, J.P. Silva, M. Sousa, C. António, A. Simões Torres

**P4 - Tuesday - CD - Board #052**

*Presenting Author: Catia Reis (Portugal)*

PSQI LARGELY IGNORES SLEEP ON WORK-FREE DAYS BOTH IN THE GENERAL POPULATION AND IN CLINICAL SLEEP MEDICINE SAMPLES

C. Reis<sup>1,2</sup>, L. Klaus Pilz<sup>3,4,5</sup>, L. Keller<sup>6,7</sup>, T. Roenneberg<sup>3</sup>, T. Paiva<sup>2</sup>

**P4 - Tuesday - CD - Board #053**

*Presenting Author: Beatriz Rodríguez-Morilla (Spain)*

APPLICATION OF MACHINE LEARNING METHODS TO AMBULATORY CIRCADIAN MONITORING (ACM) FOR THE DISCRIMINATION OF SLEEP AND CIRCADIAN DISORDERS

B. Rodríguez-Morilla<sup>1,2</sup>, E. Estivill<sup>3</sup>, C. Estivill-Domènech<sup>3</sup>, J. Albares<sup>4</sup>, F. Segarra<sup>3</sup>, M. Campos<sup>2</sup>, M.A. Rol<sup>2</sup>, J.A. Madrid<sup>2,5</sup>

**P4 - Tuesday - CD - Board #054**

*Presenting Author: Khosro Sadeghniai Haghighi (Iran, Islamic Republic of)*

USING MELATONIN FOR SHIFT WORKERS WITH INITIAL INSOMNIA

K. Sadeghniai Haghighi<sup>1</sup>, O. Omid Aminian<sup>2</sup>, H. Bahrami<sup>3</sup>

**P4 - Tuesday - CD - Board #055**

*Presenting Author: Anne C. Skeldon (United Kingdom)*

LIVING IN AN URBAN LIGHTING ENVIRONMENT: SHOULD WE MOVE SCHOOL START TIMES?

A.C. Skeldon<sup>1</sup>, A.J.K. Phillips<sup>2</sup>, D.-J. Dijk<sup>3</sup>

**P4 - Tuesday - CD - Board #056**

*Presenting Author: Marcel Smits (Netherlands)*

COGNITIVE, HEALTH AND PSYCHOSOCIAL EFFECTS OF MELATONIN AND LIGHT THERAPY IN CHILDHOOD INSOMNIA. DOUBLE-BLIND PLACEBO-CONTROLLED STUDY.

M. Smits<sup>1,2</sup>, A. van Maanen<sup>3</sup>, A.M. Meijer<sup>3</sup>, K. van der Heijden<sup>4,5</sup>, F. Oort<sup>3</sup>

**P4 - Tuesday - CD - Board #057**

*Presenting Author: Reinhard Stark (Germany)*

FATAL MONOTONY: INCREASED DAYTIME SLEEPINESS IN THE DEPLOYED SETTING (THIS STUDY IS PART OF A SPECIAL MILITARY MEDICAL RESEARCH PROJECT.)

R. Stark<sup>1</sup>, R. Girgensohn<sup>2</sup>, A. Büttner-Teleagă<sup>3,4</sup>

**P4 - Tuesday - CD - Board #058**

*Presenting Author: Herma Steinebach (Netherlands)*

CAN CLOCKED TIMED NUTRITION INFLUENCE THE CIRCADIAN RHYTHM: A CASE HISTORY

H. Steinebach, K. Kralingen van

**P4 - Tuesday - CD - Board #059**

*Presenting Author: Wessel M.A. van Leeuwen (Sweden)*

MODELLING WATCH KEEPER SLEEP AND FATIGUE IN THE MARITIME INDUSTRY

W.M.A. van Leeuwen<sup>1</sup>, C. Pekcan<sup>2</sup>, M. Barnett<sup>2</sup>, M. Williams<sup>3</sup>, G. Kecklund<sup>1</sup>

**P4 - Tuesday - CD - Board #060**

*Presenting Author: Gilles Vandewalle (Belgium)*

LIGHT EXPOSURE VIA HEAD-MOUNTED DEVICES SUPPRESSES MELATONIN AND IMPROVES VIGILANT ATTENTION WITHOUT AFFECTING CORTISOL AND COMFORT.

C. Schmidt<sup>1,2</sup>, M. Xhrouet<sup>1,2</sup>, M. Hamacher<sup>1,2</sup>, E. Delloye<sup>3</sup>, C. LeGoff<sup>4</sup>, E. Cavalier<sup>4</sup>, F. Collette<sup>1,2</sup>, G. Vandewalle<sup>1</sup>

**P4 - Tuesday - CD - Board #061**

*Presenting Author: Bogdan Voinescu (Romania)*

OBESITY AND METABOLIC RISK WERE NOT ASSOCIATED WITH CHRONOTYPE IN AN EASTERN EUROPEAN SAMPLE OF WORKERS

B. Voinescu

**P4 - Tuesday - CD - Board #062**

*Presenting Author: Ze Zhang (China)*

LIGHT EFFECTS ON SLEEP-WAKE BEHAVIOR IN MICE

Z. Zhang, W. Liu, D. Wang, Z. Huang

**P4 - Tuesday - EDS - Board #063**

*Presenting Author: Mustapha El Ftouh (Morocco)*

DROWSY DRIVING: PREVALENCE AND RISK FACTORS IN 954 MOROCCAN DRIVERS

A. Jniene<sup>1</sup>, L. Harrak<sup>2</sup>, L. Achachi<sup>2</sup>, M. El Ftouh<sup>2</sup>

**P4 - Tuesday - EDS - Board #064**

*Presenting Author: Vivian Guo (Hong Kong)*

LONG DAYTIME NAPPING OVER 1 HOUR PER DAY IS ASSOCIATED WITH INCREASED RISK OF DIABETES

V. Guo<sup>1</sup>, B. Cao<sup>2</sup>, C. Wong<sup>1</sup>, E. Yu<sup>1</sup>

**P4 - Tuesday - EDS - Board #065**

*Presenting Author: Kirk Kee (Australia)*

DELAYED HABITUAL SLEEP TIMES IN PATIENTS UNDERGOING MULTIPLE SLEEP LATENCY TESTING SIGNIFICANTLY CONTRIBUTES TO TEST FAILURE

D. Entesari-Tatafi<sup>1</sup>, A. Perkins<sup>1</sup>, T. Monogue<sup>1</sup>, J. Goldin<sup>1</sup>, K. Kee<sup>1,2,3</sup>

**P4 - Tuesday - EDS - Board #066**

*Presenting Author: Beris Ludwig (Australia)*

AT WHAT AGE DO CHILDREN DEMONSTRATE AN UNDERSTANDING OF THE VOCABULARY ASSOCIATED WITH SLEEP?

B. Ludwig, H. Heussler, S. Smith

**P4 - Tuesday - EDS - Board #067**

*Presenting Author: Beris Ludwig (Australia)*

IS THERE AN ASSOCIATION BETWEEN PERCEIVED HYPERSOMNOLENCE AND ACADEMIC RESULTS?

B. Ludwig, H. Heussler, S. Smith

**P4 - Tuesday - EDS - Board #068**

*Presenting Author: Olivier Mairesse (Belgium)*

THE BRUGMANN FATIGUE SCALE: SHAMELESSLY COPYING THE EPWORTH SLEEPINESS SCALE TO MEASURE BEHAVIORAL REST PROPENSITY

O. Mairesse<sup>1,2,3</sup>, J. Newell<sup>2</sup>, D. Neu<sup>2,4</sup>

**P6 - Wednesday - SBD - Board #121**

*Presenting Author: Arezu Najafi (Iran, Islamic Republic of)*

**OUTCOMES OF UPPER AIRWAY SURGERY IN OBSTRUCTIVE SLEEP APNEA**

H. Hosseiny, N. Naeimabadi, A. Najafi, R. Heidari, K. Sadeghniaat-Haghighi

**P6 - Wednesday - SBD - Board #122**

*Presenting Author: Carlos O'Connor Reina (Spain)*

**APNEA BYE, FIRST APP TO TREAT SLEEP DISORDER BREATHING**

C. O'Connor Reina1, M.T. Garcia Iriarte2, J.C. Casado Morente1, G. Plaza Mayor3, P. Baptista Jardin4, E.A. Vicente Gonzalez5

**P6 - Wednesday - SBD - Board #123**

*Presenting Author: Maria João Oliveira (Portugal)*

**EFFECTS OF POSITIVE AIRWAY PRESSURE THERAPY ON CARDIOVASCULAR AND METABOLIC MARKERS IN MALES WITH OBSTRUCTIVE SLEEP APNEA**

M.J. Oliveira1, A. Feliciano2, A. Cysneiros2, L. Almeida2, C. Martinho2, R. Pinto basto2, P. Pinto2,3, C. Bárbara2,3

**P6 - Wednesday - SBD - Board #124**

*Presenting Author: Luciana Palombini (Brazil)*

**UPPER AIRWAY RESISTANCE SYNDROME: VALIDATION OF A DEFINITION BASED IN LONG TERM OUTCOMES**

L. Palombini1, L. Godoy1, C. Hirotsu1, L. Bittencourt1, D. Poyares1, C. Guilleminault2, S. Tufik1

**P6 - Wednesday - SBD - Board #125**

*Presenting Author: Sandra Pérez Ramos (Spain)*

**CHARACTERISTICS AND COST-EFFECTIVENESS OF POLYSOMNOGRAPHY IN PATIENTS WITH SUSPICION OF OBSTRUCTIVE SLEEP APNEA SYNDROME ACCORDING TO AGE.**

S. Pérez Ramos, M.D. Calvo Sánchez, E. Prado Gala, M.C. Rodríguez Morales, M.C. Redó Valls, N. Martí Carreras, C. López Padrós, N. Salord Oleo, C. Monasterio Ponsa

**P6 - Wednesday - SBD - Board #126**

*Presenting Author: Roxana Maria Pleava (Romania)*

**COMPARING BODY-MASS INDEX IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE PATIENTS**

R.M. Pleava1, C. Ardelean1,2, I. Marincu1, L. Udrescu1, M. Udrescu3, S. Mihaicuta1,2

**P6 - Wednesday - SBD - Board #127**

*Presenting Author: Elizabeth Portugal Velloso (Brazil)*

**USE OF NON INVASIVE VENTILATION TO TREAT SEVERE HYPOVENTILATION SYNDROME AND OBSTRUCTIVE SLEEP APNEA CASE**

E. Portugal Velloso, L. Freitas, A.C. Silva, W. Sampaio

**P6 - Wednesday - SBD - Board #128**

*Presenting Author: Rong Ren (China)*

**SHORT SLEEP DURATION IS ASSOCIATED WITH AN INCREASED PREVALENCE OF HYPERTENSION IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA**

R. Ren, Y. Li, Y. Zhang, J. Zhou, L. Tan, T. Li, X. Li, X. Tang

**P6 - Wednesday - SBD - Board #129**

*Presenting Author: Marta Rios (Portugal)*

**GENETIC, CLINICAL AND TREATMENT HETEROGENEITY OF THREE PATIENTS WITH CONGENITAL CENTRAL HYPOVENTILATION SYNDROME**

M. Rios1, N. Madureira2, T. Barbosa1, M.G. Reis1, L. Morais1, A. Ramos1

**P6 - Wednesday - SBD - Board #130**

*Presenting Author: Seung Hoon Ro (Korea, Republic of)*

**CASE OF OBSTRUCTIVE SLEEP APNEA WITH SLEEP WALKING**

S.H. Ro, Y.H. Um, S.C. Hong

**P6 - Wednesday - SBD - Board #131**

*Presenting Author: M.Carmen rodriguez morales (Spain)*

**DIFFERENCES IN SLEEP QUALITY AND CLINICAL CHARACTERISTICS OF PATIENTS STUDIED IN A SLEEP UNIT ACCORDING TO GENDER**

M.C. rodriguez morales, M.D. calvo sanchez, E. prado gala, S. perez ramos, M.C. redo valls, N. marti carreras, C. lopez padros, N. salord oleo, C. monasterio ponsa

**P6 - Wednesday - SBD - Board #132**

*Presenting Author: Mehrdad shakeri (Iran, Islamic Republic of)*

**THE RELATIONSHIP BETWEEN SEVERITY OF OBSTRUCTIVE SLEEP APNEA AND HEART RATE VARIABILITY**

M. shakeri1, N.S. Shams-Hosseini2, O. aminian2, K. Sadeghniaat-Haghighi2

**P6 - Wednesday - SBD - Board #133**

*Presenting Author: Yasemin Unal (Turkey)*

**PSYCHIATRIC MORBIDITY OF THE PATIENTS WITH OBSTRUCTIVE SLEEP APNEA**

Y. Unal1, L. Inanc2, G. Kutlu1, U.B. Semiz2

**P6 - Wednesday - SBD - Board #134**

*Presenting Author: Bruno von Amann (Portugal)*

**EFFECTIVENESS OF THE FOLLOW-UP OF PATIENTS WITH OBSTRUCTIVE SLEEP APNEA UNDERGOING CPAP TREATMENT IN PRIMARY CARE UNITS**

B. von Amann1, A. Dias1, M. Dias2, M. Escalera1, C. Martinho1, R. Pinto Basto1, P. Pinto1,3, C. Bárbara1,3

**P6 - Wednesday - SBD - Board #135**

*Presenting Author: Vladimir Yordanov (Bulgaria)*

**CONNECTION BETWEEN BRUXISM, TMJ-PAIN AND TINNITUS**

V. Yordanov1, S. Gradanska1, M. Dzhinova1, P. Nedev2, C. Madjova1, T. Tonchev1, S. Shiskov1, M. Milkov1

**P6 - Wednesday - SBD - Board #136**

*Presenting Author: Meral Yuksel (Turkey)*

**NUCLEATED RED BLOOD CELL COUNT IN OBSTRUCTIVE SLEEP APNEA PATIENTS**

M. Yuksel1, Ö. Unay-Demirel2, Z. Pelin3

**P6 - Wednesday - SBD - Board #137**

*Presenting Author: Yingying Zhao (China)*

**THE STUDY OF POSITIVE AIRWAY PRESSURE VARIATION ON OSAHS PATIENTS WITH SUN'S SEQUENTIAL THERAPY**

Y. Zhao1, S. Sun2, L. Zuo1, J. Liu1, Y. Wang1