



Book of Abstracts

International Congress on Epilepsy, Brain and Mind

Prague, Czech Republic,
Congress Centre U Hájků
March 18–20, 2010

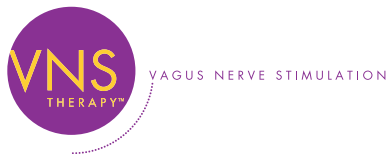


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CONGRESS PROGRAMME

THURSDAY MARCH 18, 2010

08:30–08:50	OPENING CEREMONY Chairmen: Amos KORCZYN (Israel), Ivan REKTOR (Czech Republic), Jan Hadač (Czech Republic)	Hall 1
	Art and epilepsy – PLENARY 1 Chairmen: Frederick ANDERMANN (Canada), Jerome ENGEL (USA)	Hall 1
09:00–09:20	VIEWING EPILEPSY THROUGH ART <i>Steven C. SCHACHTER (USA)</i>	
09:20–09:40	MUSICOGENIC EPILEPSY – FROM SOUND TO SEIZURE <i>Peter W. KAPLAN (USA)</i>	
10:00–10:20	EPILEPSY AND CHOREA ONSTAGE: FROM CHARCOT'S TUESDAY LECTURES TO SHARITS, MARCALO, AND PLATEL'S PLAY WITH THE INVOLUNTARY AND TABOO <i>Kelina GOTMAN (UK)</i>	
10:20–10:40	THE SOUL IN THE BRAIN – LESSONS FROM EPILEPSY <i>Michael TRIMBLE (UK)</i>	
10:40–10:50	Discussion	
10:50–11:10	<i>Coffee Break</i>	
	Epilepsy, depression and AEDs – PARAL 1 Chairmen: Elinor BEN-MENACHEM (Sweden), Robert KUBA (Czech Republic)	Hall 1
11:10–11:30	EPILEPSY AND DEPRESSION: A BIOLOGICAL LINK? <i>Philippe RYVLIN (France)</i>	
11:30–11:50	DO AEDs CONTRIBUTE TO DEPRESSIVE SYMPTOMS AND SUICIDAL IDEATION IN PEOPLE WITH EPILEPSY? <i>Marco MULA (Italy)</i>	
11:50–12:10	POSITIVE EFFECTS OF AEDs ON MOOD: IMPLICATIONS FOR DRUG SELECTION IN PATIENTS WITH EPILEPSY <i>Andres KANNER (USA)</i>	
12:10–12:30	PREDICTING EFFECTS OF ANTI-EPILEPTICS ON MOOD: CLUES FROM KNOWLEDGE ABOUT MECHANISMS OF ACTION <i>Edoardo SPINA (Italy)</i>	
12:30–12:40	Discussion	
12:40–14:00	<i>Lunch</i>	
	Epilepsy and developmental processes – PARAL 2 Chairmen: Frank BESAG (UK), Gus BAKER (UK)	Hall 2
11:10–11:30	EPILEPSY AND BRAIN/MIND DEVELOPMENT <i>Vladimír KOMÁREK (Czech Republic)</i>	
11:30–11:50	EXPERIMENTAL EPILEPTIC ENCEPHALOPATHIES <i>Pavel MAREŠ (Czech Republic)</i>	
11:50–12:10	EPILEPTIC ENCEPHALOPATHIES: ARE THEY REVERSIBLE ? <i>Ulrich STEPHANI (Germany)</i>	
12:10–12:30	TREATMENT STRATEGY OF EPILEPTIC ENCEPHALOPATHIES <i>Lieven LAGAE (Belgium)</i>	
12:30–12:40	Discussion	
12:40–14:00	<i>Lunch</i>	
	Emotion recognition and social cognition in epilepsy patients – PARAL 3 Chairmen: Andres KANNER (USA), Milan BRÁZDIL (Czech Republic)	Hall 1
14:00–14:20	WHY DO PATIENTS WITH MEDIAL TEMPORAL LOBE EPILEPSY FAIL TO RECOGNIZE FACIAL EMOTIONS? <i>Stefano MELETTI (Italy)</i>	
14:20–14:40	SOCIAL COGNITION IN PATIENTS WITH TEMPORAL LOBE EPILEPSIES <i>Hennric JOKEIT (Switzerland)</i>	
14:40–15:00	POSTOPERATIVE CHANGES IN EMOTIONAL RECOGNITION AND SOCIAL COGNITION IN TLE PATIENTS <i>Petr MARUŠIČ (Czech Republic)</i>	
15:00–15:20	PERI-ICTAL EMOTIONAL SYMPTOMS <i>Antonio GIL-NAGEL (Spain)</i>	
15:20–15:40	EMOTIONAL BODY LANGUAGE AND EPILEPTIC SEIZURES <i>Christoph BAUMGARTNER (Austria)</i>	
15:40–15:50	Discussion	
15:50–16:10	<i>Coffee Break</i>	

Hall 2

Behavioural dysfunction and psychiatric co-morbidity – PARAL 4

Chairmen: Dale HESDORFFER (USA), Vladimír DONÁTH (Slovak Republic)

- 14:00–14:20 EPILEPSY CO-MORBIDITIES IN NURSING HOMES: FOCUS ON ALZHEIMER'S
Ilo LEPPIK (USA)
- 14:20–14:40 SUICIDE IN EPILEPSY: HOW TO TREAT IT?
Andres M. KANNER (USA)
- 14:40–15:00 SEXUAL FUNCTIONS AND DYSFUNCTIONS IN PATIENTS WITH EPILEPSY
Robert KUBA, Věra ZELENÁ (Czech Republic)
- 15:00–15:20 SEIZURES AND SUBSTANCE ABUSE
John BRUST (USA)
- 15:20–15:40 PLACEBO RESPONSES TO AEDs
Alla GUEKHT (Russia)
- 15:40–15:50 Discussion
- 15:50–16:10 *Coffee Break*

Hall 1

Higher cortical function in epilepsy – PLENARY 2

Chairmen: Marco MULA (Italy), Steven C. SCHACHTER (USA)

- 16:10–16:30 THE WADA TEST: LESSONS ON LANGUAGE DOMINANCE AND CHANGE OF CLINICAL INDICATION WITH IMPROVEMENTS
IN THE DIAGNOSIS AND SURGICAL TREATMENT OF EPILEPSY
Christoph HELMSTAEDTER (Germany)
- 16:30–16:50 EPILEPSY AND LANGUAGE: WHAT DO WE KNOW? WHAT DO WE WANT TO KNOW?
William D. GAILLARD (USA)
- 16:50–17:10 THE SYNDROME OF TRANSIENT EPILEPTIC AMNESIA (TEA)
Adam ZEMAN (UK)
- 17:10–17:30 EFFECT OF EPILEPSY ON SMELL AND TASTE
Marilyn JONES-GOTMAN (Canada)
- 17:30–17:40 Discussion

FRIDAY MARCH 19, 2010

07:30–08:30 Guided poster session

Chairmen: Georges CHAPOUTHIER (France), Evžen NEŠPOR (Czech Republic)

The cerebral basis of religiosity – the evidence from epilepsy – PLENARY 3

Hall 1

Chairmen: Meir BIALER (Israel), Peter WOLF (Denmark)

08:30–08:50 STRESS, EPILEPSY, AND MEDITATION

Jerome ENGEL (USA)

08:50–09:10 EPILEPSY AND RELIGIOUS EXPERIENCE – EPIDEMIOLOGICAL EVIDENCE

Dale HESDORFFER (USA)

09:10–09:30 DEMONS IN THE BRAIN: EPILEPSY, POSSESSION, & LANGUAGE

Kelina GOTMAN (UK)

09:30–09:50 EPILEPSY AND LITERATURE

Peter WOLF (Denmark)

09:50–10:00 Discussion

10:00–10:20 Coffee Break

The interaction of mind and epileptic activity in epilepsy – PARAL 5

Hall 1

Chairmen: Christoph HELMSTAEDTER (Germany), Vladimír KOMÁREK (Czech Republic)

10:20–10:40 PSYCHOLOGICAL TREATMENTS FOR EPILEPSY

Gus BAKER (UK)

10:40–11:00 THE INFLUENCE OF A MODULATION OF PERIPHERIC SYMPATHETIC ACTIVITY ON EPILEPSY

Yoko NAGAI (UK)

11:00–11:20 UNDERSTANDING OTHERS' MENTAL STATES AND EPILEPSY

Anna Rita GIOVAGNOLI (Italy)

11:20–11:40 COGNITIVE MODULATION OF THE ELECTROPHYSIOLOGICAL NONLINEAR DYNAMICS WITHIN THE HIPPOCAMPUS

Klaus LEHNERTZ (Germany)

11:40–12:00 NEUROFEEDBACK OF SLOW CORTICAL POTENTIALS AND ITS IMPACT ON ELECTROPHYSIOLOGICAL PROCESSES WITHIN THE HIPPOCAMPUS

Navah FRITZ (Germany)

12:00–12:10 Discussion

12:10–13:30 Lunch / Poster Session (12:10–13:00)

Imaging higher cortical dysfunction in epilepsy – PARAL 6

Hall 2

Chairmen: Josef PARVIZI (USA), Petr MARUŠIČ (Czech Republic)

10:20–10:40 COGNITIVE IMPAIRMENT IN EPILEPSY: NEUROIMAGING DATA

Bruce HERMANN (USA)

10:40–11:00 PSYCHOSIS AND EPILEPSY: ARE THERE IMAGING CORRELATES?

Michael TRIMBLE (UK)

11:00–11:20 IMAGING LANGUAGE AND MEMORY IN EPILEPSY

William GAILLARD (USA)

11:20–11:40 IMAGING STUDIES OF DEPRESSION IN EPILEPSY

William THEODORE (USA)

11:40–12:00 WHAT WE CAN LEARN FROM DEPTH RECORDINGS ABOUT THE FUNCTIONAL ANATOMY OF THE HUMAN BRAIN

Milan BRÁZDIL (Czech Republic)

12:00–12:10 Discussion

12:10–13:30 Lunch / Poster Session (12:10–13:00)

Neuromodulation in epilepsy, effects on depression and cognition – PARAL 7

Hall 1

Chairmen: Antonio GIL-NAGEL (Spain), Ilo LEPPIK (USA)

13:30–13:50 BASIC MECHANISMS OF ANTIDEPRESSANT EFFECT OF BRAIN STIMULATION

Robrecht RAEDT (Belgium)

13:50–14:10 QUALITY OF LIFE AND THE ANTIDEPRESSANT EFFECTS OF VAGUS NERVE STIMULATION (VNS) IN PATIENTS WITH EPILEPSY

Elinor BEN-MENACHEM (Sweden)

14:10–14:30 DEEP BRAIN STIMULATION IN EPILEPSY – COGNITIVE ASPECTS

Ivan REKTOR (Czech Republic)

14:30–14:50 Discussion

14:50–15:00 Coffee Break

Consciousness – PARAL 8

Hall 2

Chairmen: Marilyn JONES-GOTMAN (Canada), Alla GUEKHT (Russia)

13:30–13:50 EPILEPSY AND CONSCIOUSNESS

Adam ZEMAN (UK)

13:50–14:10 AWARENESS IN TLE

Josef PARVIZI (USA)

14:10–14:30 NON CONVULSIVE STATUS EPILEPTICUS, CONSCIOUSNESS AND COMA

Eugen TRINKA (Austria)

14:30–14:50 Discussion

14:50–15:00 *Coffee Break***Pfizer sponsored symposium**

Hall 1

Chairmen: Michael TRIMBLE (UK), Amos KORCZYN (Israel)

15:00–15:20 EPIDEMIOLOGICAL ASPECTS

Dale HESDORFFER (USA)

15:20–15:40 DEPRESSION AND ANXIETY FROM THE LABORATORY TO THE CLINIC

Andres KANNER (USA)

15:40–16:00 SLEEP AND EPILEPSY

Carl BAZIL (USA)

16:00–16:20 ANTIEPILEPTIC DRUGS AND ANXIOLYTICS

Terence J. O'BRIEN (Australia)

16:20–16:30 Discussion

**Epileptic and non-epileptic seizures: video session – PLENARY 4**

Hall 1

Chairmen: Ivan REKTOR (Czech Republic), William THEODORE (USA)

16:30–18:10 FACULTY

*William THEODORE (USA), Frederick ANDERMANN (Canada), Christoph BAUMGARTNER (Austria),**Milan BRÁZDIL (Czech Republic), Ivan REKTOR (Czech Republic)*

SATURDAY MARCH 20, 2010

07:30–08:30 Guided poster session

Drugs, epilepsy and the mind – PLENARY 5

Hall 1

Chairmen: Christoph BAUMGARTNER (Austria), Eva ANDERMANN (Canada)

08:30–08:50 MONITORING NEUROCOGNITIVE SIDE EFFECTS OF ANTIEPILEPTIC DRUGS

Christoph HELMSTAEDTER (Germany)

08:50–09:10 COGNITIVE EFFECTS OF IN UTERO AED EXPOSURE

Gus BAKER (UK)

09:10–09:30 COGNITIVE OUTCOMES IN SCHOOL-AGED CHILDREN OF EPILEPTIC WOMEN

Eva ANDERMANN (Canada)

09:30–09:50 GENETIC BASIS OF BEHAVIORAL IMPACT OF AED TERATOGENESIS

Richard FINNELL (USA)

09:50–10:10 NEUROPSYCHOLOGICAL AND BEHAVIOURAL EFFECTS OF AED

Frank BESAG (UK)

10:10–10:30 DO NEW AND NEWLY DEVELOPED AEDs HAVE BETTER COGNITIVE PROFILE?

Meir BIALER (Israel)

10:30–10:40 Discussion

10:40–11:10 *Coffee Break / Poster Session*

Epilepsy as a complex system – PLENARY 6

Hall 1

Chairmen: Eugen TRINKA (Austria), William D. GAILLARD (USA)

11:10–11:30 EPILEPTIC AND NON EPILEPTIC HALLUCINATIONS: A NEW LOOK AT THE DIFFERENTIAL DIAGNOSIS

Frederick ANDERMANN (Canada)

11:30–11:50 EPILEPTIC PROCESSES AS MOSAIC SYSTEMS

Georges CHAPOUTHIER (France)

11:50–12:10 SEMIOLOGY OF MESIAL FRONTAL LOBE SEIZURES

Antonio GIL-NAGEL (Spain)

12:10–12:30 BEHAVIORAL MANIFESTATIONS OF UNRECOGNIZED SEIZURES

Ilo LEPPIK (USA)

12:30–12:50 DISINHIBITION: SOCIAL DARWINISM IN MODERN NEUROSCIENCES

Josef PARVIZI (USA)

12:50–13:00 Discussion

13:00–13:30 **Closing plenary discussion: Do we need a congress about epilepsy, brain and mind?**

Chairmen: Ivan REKTOR (Czech Republic), Amos KORCZYN (Israel)

LIST OF POSTERS

FRIDAY MARCH 19, 2010

Consciousness

- P1-1-1 ECSTATIC EPILEPTIC SEIZURES: A POTENTIAL WINDOW ON THE NEURAL BASIS FOR HUMAN SELF-AWARENESS
F. Picard, A.D. Craig (Switzerland, USA)

Cognition

- P1-2-1 NEUROPSYCHOLOGICAL FUNCTIONING OF CHILDREN WITH EPILEPSY AND NON-EPILEPTIC SEIZURES
L. Cvitanovic-Sojat, M. Crnkovic, B. Divcic, R. Gjergja Juraski (Croatia)
- P1-2-2 INFLUENCE OF NMDA RECEPTOR AGONIST AND ANTAGONIST ON WIN55, 212-2 INDUCED STATE-DEPENDENT LEARNING IN THE DORSAL HIPPOCAMPUS OF RATS
B. Ghorbanalizadeh-Khalifeh-Mahaleh, N. Jamali-Raeufy, M. Nasehi (Iran)
- P1-2-3 INHIBITORY AVOIDANCE MEMORY DEFICIT INDUCED SCOPOLAMINE DEFICIT: INTERACTION WITH GLUTAMINERGIC SYSTEM IN THE NUCLUEUS ACCUMBENS
M.R. Zarrindast, B. Pakpour, Sh. Ahmadi (Iran)
- P1-2-4 THE PATHOPHYSIOLOGY ASSOCIATED WITH ACCELERATED LONG-TERM FORGETTING IN EPILEPSY
Z. Fitzgerald, A. Mohamed, Z. Thayer, J. Batchelor, L. Miller (Australia)
- P1-2-5 ARE THERE ANY CLINICAL AND EEG FEATURES ASSOCIATED WITH OCCURRENCE OF EXECUTIVE DYSFUNCTION IN PATIENTS WITH JME?
E. Cvetkovska, I. Kuzmanovski, T. Vaskov, T. Cepreganova, D. Nikodijevik (Macedonia)
- P1-2-6 TRANSIENT EPILEPTIC AMNESIA, AUTOBIOGRAPHICAL MEMORY AND THE SELF: A CASE STUDY
N. A. Illman, C.J.A. Moulin, S. Kemp (UK)
- P1-2-7 SUPERIOR TEMPORAL SULCUS AND DETECTION OF RARE EVENTS
P. Haitová, M. Brázdil, R. Mareček, M. Mikl (Czech Republic)
- P1-2-8 EFFICACY AND TOLERABILITY OF NEW VERSUS OLD AEDs IN ELDERLY PATIENTS WITH EPILEPSY
D. Petrovska-Cvetkovska, D. Nikodijevik, N. Dolnenec-Baneva, S. Radulovic-Bekarovska, T. Cepreganova-Cangovska, V. Aleksovski, G. Kuzmanovska (Macedonia)
- P1-2-9 DISSOCIATION BETWEEN VISUO-PERCEPTUAL AND VISUO-SPATIAL CAPACITIES IN A CASE OF TEMPORAL LOBE EPILEPSY
I. Wisniewski, A.S. Wendling, S. Bilic, A.M. Staack, B.J. Steinhoff, L. Manning (Germany)
- P2-2-10 THE IMPORTANCE OF PRESURGICAL LANGUAGE LOCALISATION IN A CASE OF RIGHT TEMPORAL LOBE EPILEPSY
AS. Wendling, I. Wisniewski, A.M. Staack, B.J. Steinhoff (Germany)
- P2-2-11 IS TYPE OF CEREBRAL PALSY THE MAIN PREDICTOR OF COGNITIVE AND PSYCHOSOCIAL FUNCTIONING?
P. Ignjatovic, N. Jovic (Serbia)
- P1-2-12 NEUROPSYCHOLOGICAL OUTCOME FOLLOWING FEBRILE CONVULSIONS IN TEMPORAL LOBE EPILEPSY PATIENTS – A PILOT STUDY
S. Nakić, S. Galić, S. Divošević, H. Hećimović (Croatia)
- P1-2-13 RIGHT NON-DOMINANT TEMPORAL LOBE EPILEPSY, WADA TEST AND COGNITIVE OUTCOME AFTER SURGERY
S. Telecká, R. Kuba, M. Brázdil, I. Rektor (Czech Republic)
- P1-2-14 THE ROLE OF RIGHT AND LEFT TEMPORAL LOBE EPILEPSY ON VIRTUAL NAVIGATION: REFERENCE AND WORKING MEMORY ASSESSMENT
R. Cánovas, J. Cimadevilla, I. León, L. Roldán-Tapia, P. Serrano (Spain)
- P1-2-15 THE POSTERIOR MEDIAL CORTEX IS INVOLVED IN VISUAL BUT NOT IN VERBAL MEMORY ENCODING PROCESSING. INTRACEREBRAL RECORDING STUDY
K. Herůfková, P. Jurák, J. Chládek, J. Halánek, I. Rektor (Czech Republic)
- P1-2-16 COGNITIVE CHANGES IN PATIENTS AFTER STEREOTACTIC RADIOFREQUENCY AMYGDALOHIPPOCAMPECTOMY – ONE YEAR FOLLOW-UP
L. Krámská, Z. Vojtěch, I. Marečková, T. Procházka, M. Kalina (Czech Republic)
- P1-2-17 WORKING MEMORY DEFICIT IN EPILEPTIC PATIENTS
L. Roldán-Tapia, R. Cánovas-López, I. León, J. Cimadevilla, P. Serrano (Spain)
- P1-2-18 VIRTUAL NAVIGATION BY EPILEPTIC PATIENTS UNDER TWO DIFFERENT SPATIAL CONDITIONS: USE OF ALLOCENTRIC VS EGOCENTRIC CUES
J.M. Cimadevilla, R. Cánovas, P. Serrano, I. León, M.D. Roldán (Spain)
- P1-2-19 COGNITIVE PROCESS: A BUDDHIST EXPLANATION OF INFORMATION PROCESS AND ITS CONGRUENT REACTIONS
Ven. Sreemat Swapan Kumar Barua (Thailand)
- P1-2-20 NEUROPSYCHOLOGICAL REHABILITATION IN PATIENTS WITH EPILEPSY SUBMITTED TO LEFT TEMPORAL MESIAL LOBECTOMY, COGNITION AND NEUROIMAGE ASPECTS: PRELIMINARY DATA
C.V.L. Geraldi, C. Souza-Oliveira, S. Escorsi-Rosset, A.C. Sakamoto (Brazil)

- P1-2-21 SOCIAL COGNITION IN TEMPORAL LOBE EPILEPSY PATIENTS
J. Kotaskova, P. Marusic, B. Kajukova, A. Javurkova (Czech Republic)
- P1-2-22 IMPACT OF NEUROFEEDBACK IN PATIENTS WITH EPILEPSY
S. Bakhtadze, M. Janelidze, N. Khachapuridze (Georgia)
- P1-2-23 A NEW VIRTUAL REALITY TASK SHOWS SPATIAL MEMORY IMPAIRMENTS IN EPILEPSY
I. León, L. Roldán-Tapia, R. Cánovas, J.M. Cimadevilla, P. Serrano (Spain)
- P1-2-24 WADA TEST AS A PREDICTOR OF POST SURGERY LEVEL OF MEMORY PERFORMANCE
A. Bala, A. Wnuk, A. Rysz, A. Marchel (Poland)
- P1-2-25 THE EVENT RELATED POTENTIAL P300 AND REACTION TIME IN EPILEPSY
V. Ivetic, V. Vasic, N. Naumovic, B. Bisevac (Serbia)

Mood and perception

- P1-3-1 FREQUENCY AND ASSOCIATED FACTORS FOR DEPRESSION IN PREGNANT WOMEN ATTENDING ANTENATAL CLINICS OF A TEACHING HOSPITAL
N.S. Ali, B.S. Ali, S.I. Azam, H.B. Hamza, S.S. Moin (Pakistan)
- P1-3-2 STRUGGLE WITH STIGMA IN IRANIAN EPILEPTICS PATIENTS
N. Hosseini, F. Sharif, F. Ahmadi, M. Zareh (Iran)
- P1-3-4 NIGHT SEIZURES, SLEEP, DAYTIME SLEEPINESS AND QUALITY OF LIFE
J. Slonkova, M. Bar (Czech Republic)
- P1-3-5 PSYCHOLOGICAL CHARACTERISTICS OF PATIENTS WITH PSYCHOGENIC NONEPILEPTIC SEAZURES AT MMPI-2
R. Kubikova, S. Telecka (Czech Republic)

Cultural and spiritual aspects

- P1-4-1 HOMICIDAL BEHAVIOR AND EPILEPTICS PATIENTS ADMITTED AT IBIN-AL-HAITHAM HIGH SECURE UNIT, AL-RASHAD TEACHING MENTAL HOSPITAL, BAGHDAD
B. Naamah, S. Humaidi, J.K. Muslim (Iraq)
- P1-4-2 WORKING OF FREE EPILEPSY CLINIC IN THE COMMUNITY
A. Maqbool, K. Mufti, H.R. Chaudhry (Iran)
- P1-4-3 RELIGIOUS EXPERIENCES AS A PSYCHOTIC BACKGROUND OF AN EPILEPTIC FRONTO-LIMBIC DYSBALANCE
V.P. Samokhvalov, O. Samokhvalova (Ukraine, Germany)
- P1-4-4 INTRODUCING A VISUAL ART INTERVENTION MODEL FOR STRESS REDUCTION AND THE DEVELOPMENT OF COPING MECHANISMS FOR CLIENTS WITH EPILEPSY
J.R. Botha (South Africa)
- P1-4-5 EPILEPSY IN THE FRESCO-PAINING AND IN HOSPITAL OF THE SERBIAN MEDIEVAL MONASTERY DECHANI
N. Jovic (Serbia)
- P1-4-6 EPILEPSY IN SAINTS AND PROPHETS
S. Ilić-Tasić (Serbia)
- P-4-7 PAROXYSMAL BEHAVIOR DISTURBANCES OF SALVADOR DALI
R. Krivokapić, M. Tošić, S. Ilić-Tasić, D. Randelović (Serbia)
- P-4-8 VAN GOGH AND EPILEPSY
T. Tošić, S. Ilić-Tasić, M. Tošić (Serbia)
- P1-4-9 POSTTRAUMATIC EPILEPSY IN AGATHA CHRISTIE'S DETECTIVE STORY
D. Vucinic, N. Jovic (Serbia)
- P1-4-10 SPIRITUALITY AND QUALITY OF LIFE IN EPILEPSY
A.R. Giovagnoli, R.F. Meneses, F. Villani, A. Riva, J.L. Pais-Riberio, A. Martins da Silva (Italy, Portugal)
- P1-4-11 MISTLETOE FOR THERAPY OF EPILEPSY IN SERBIAN TRADITIONAL MEDICINE
M. Borkovic, J. Jancic, P. Ignjatovic, N. Jovic (Serbia)

Developmental aspects

- P1-8-1 NEUNATAL FEBRILE SEIZURES IN RATS AFFECT LEARNING AND MEMORY FUNCTIONS OF THE HIPPOCAMPUS AND DECREASE THE PENTYLENETETRAZOLE CONVULSIVE THRESHOLD LATER IN LIFE
A. Al-Ansari, A.A. BinAli, H. AlShaikh, H.J. Alaali (Bahrain)
- P1-8-2 NEUROGLOBIN IS UP-REGULATED IN CEREBELLUM OF PUPS EXPOSED TO MATERNAL EPILEPTIC SEIZURES
D.C. Lima, A.C. Cossa, S.R. Perosa, E.M. Oliveira, J.A. Silva Jr., E.T. Santana, E.A. Cavalheiro, M.G. Naffah-Mazzacoratti, D. Amado (Brazil)
- P1-8-3 CLINICAL FEATURES IN A CASE OF ALPERS – HUTTENLOCHER SYNDROME
O. Horák, M. Ryzí, T. Honzík, H. Ošlejšková (Czech Republic)
- P1-8-4 OVERLOAD OF A GROUP OF CAREGIVERS OF CHILDREN WITH EPILEPSY AND SEIZURES REFRACTORY TO TREATMENT
C.V.L. Geraldi, C. Souza-Oliveira, S. Escorsi-Rosset, D. Palhares, V.C. Terra, A.C. Sakamoto (Brazil)

SATURDAY MARCH 20, 2010

Drugs, neurostimulation, epilepsy and the mind

- P2-5-1 THE EFFECT OF EMF TREATMENT AT THE LOW FREQUENCY 10,30HZ ON SPATIAL MEMORY OF MICE IN MORRIS WATER MAZE
M. Kafaee Razavi, M. Tehranipour, A.R. Haghpayma (Iran)
- P2-5-2 THE EFFECTS OF OPIATE RECEPTOR AGONISTS AND ANTAGONISTS ON SPONTANEOUS SEIZURE ACTIVITY IN HIPPOCAMPAL SLICES
A. Alijarahi (Iran)
- P2-5-3 THREE YEARS FOLLOW-UP OF PATIENTS WITH EPILEPSY AFTER THE DISCONTINUATION OF ANTI-EPILEPTIC DRUGS
H. Chaudhry, N. Shafique, H. Gull (Pakistan)
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RESPONSE OF EPILEPTIC DROP ATTACKS TO THE 'FIXED' ASSOCIATION OF VALPROATE, LAMOTRIGINE AND A BENZODIAZEPINE

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Objective: This study intends to evaluate the efficacy of the association of valproate, lamotrigine and a benzodiazepine, aiming to control a type of epileptic seizures, the sudden fall seizures or drop attacks (DA).

Methods: We evaluated 28 patients with DA, which attended to the Epilepsy Ambulatory. Such patients were evaluated from the clinical point of view, of EEG and of MRI. All of them have passed through a drug adjustment period, where the drugs in use were reduced and taken off, as we slowly introduced the association of valproate, lamotrigine and a benzodiazepine (clobazam, clonazepam or nitrazepam). The visits were every three months, during the period of one year.

Results: 11 (39.3%) were adults, 20 (71.4%) from the male sex, with a medium time of epilepsy of 13 years. All the patients were dependents, due to changing in their neurological exam or important cognitive changing. 13 (46.4%) presented normal MRI exams and the alterations found in the others were Wernicke atrophy (1), cistic tumor of the third ventricle (1), double cortex bilateral (2), encephalomalacia (1), cortical diffuse atrophy (4), polimicrogiria (2), tuberous sclerosis (2), and cerebular atrophy (2). In the EEG most of the patients (25) showed epileptic discharges, or generalized (19) or multifocal (6). 3 patients had normal EEG. There was an important decrease on the DA numbers. The initial average DA in the group was 124.4 a month and the final average, 15.8 a month (87.3% reduction), with a $p < 0,001$ (Wilcoxon test). 54% of the patients were free of DA and 82% obtained a decrease of more than 50% in the number of DA. Only 2 patients didn't show any improvement. Additionally, 20 patients were followed for 18 months and 11 patients, for 24 months. In consider the last appointment of each patient (8 with 12 months, 9 with 18 months and 11 with 24 months), 68% were free of DA, 18% showed 75% of improvement and 7% showed more than 50% of improvement. Only 7% had few than 50% of reduction of DA in relationship of baseline.

Conclusions: We saw that the association of these 3 drugs can be effective in the control of drop attacks in patients with generalized epilepsy. Literature presents few papers about the DA treatment, and none uses the association of these 3 drugs.

QUANTITATIVE ANALYSIS OF BACKGROUND EEG ACTIVITY IN THREE PROTOCOL DEPENDANT GROUPS OF EPILEPTIC PATIENTS

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Objective: The aim of this study is to perform quantitative analysis of background EEG activity in epileptic patients depending on the presence/absence of the treatment protocol and on the type of therapy administered.

Methods: Thirty three patients, selected over a period of 3 years (2006-2009) and diagnosed with epilepsy were divided in 3 equal groups. The first group of patients (7M/4F) were free from antiepileptic medications; The second group (4M/7F) were treated with Lamotrigine only, whereas the third group (3M/8F) received exclusively Carbamazepine. The EEG data was obtained under the same conditions and electrodes were applied according to International 10/20 system using standard bipolar montage. For each patient, 40 artefact-free baseline EEG epochs (4 seconds each during eyes closed) were selected for further analysis. The sampling rate was 256 Hz. Low-cut frequency was 0.53 Hz, whereas high-cut was 30 Hz.

Results: Visual analysis of the raw EEG data was performed before obtaining the results. The final quantitative assessment resulted in absolute and relative power spectrum values, calculated within 6 frequency bands: delta (1.50 - 3.99 Hz), theta (4.00 - 7.49 Hz), alpha (7.50 - 11.99 Hz), SMR (12.00 Hz - 14.99 Hz), beta1 (15 - 19.99 Hz) and beta2 (20.00 - 24.99 Hz) in 4 equivalent locations (Fp2-F8, Fp1-F7, P4-O2 and P3-O1). EEG spectral results were statistically evaluated by ANOVA which showed significant difference among the groups for the absolute power (mean values being 5.98 μ V, 6.44 μ V and 12.92 μ V for each group respectively) of the delta frequency band in Fp2-F8 location only ($F=3.46$ greater than F critical=3.35, $p=0.05$).

Conclusion: Quantitative analysis of background EEG activity in epilepsy is useful tool in discriminating specific groups of patients that are defined by the therapeutic protocol.