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首届“西湖IEEG和癫痫环路论坛”在我校召开

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近日，首届“西湖IEEG和癫痫环路论坛”在我校召开，本次会议由浙江中医药大学、浙江大学医学院附属第二医院癫痫中心和浙江省抗癫痫协会联合主办，采取线下举办和线上直播的形式进行，汇聚了来自国内外从事癫痫临床和基础研究的众多知名学者。

我校校长陈忠教授、浙江省抗癫痫协会会长丁美萍教授、加拿大麦吉尔大学Birgit Frauscher教授、美国芝加哥大学James Tao教授、首都医科大学附属天坛医院张凯主任、四川大学华西医院安冬梅主任、中国科学院上海药物研究所“国家杰青”高召兵教授、中国科学院心理研究所“国家优青”王亮教授、复旦大学王云教授、南京医科大学卢应梅教授、浙江大学医学院附属第二医院王爽主任、浙江大学医学院附属第一医院王康主任、我校汪仪研究员等专家学者出席本次会议。

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丁美萍主持开幕式并致辞，对远道而来参加会议的各位专家和与会代表表达了热烈的欢迎和衷心的感谢。



陈忠在致辞中介绍了学校的总体情况，对各位专家的到会指导表示欢迎和感谢。陈忠高度赞赏了本次会议的内容和形式，表达了对未来癫痫研究应紧密结合基础与临床的期盼，并预祝大会圆满成功。



西澳 IEEG 和癫痫环路论坛
WESTLAKE IEEG & EPILEPTIC CIRCUIT FORUM





Epilepsy & sleep macrostructure

- Traditional sleep metrics are largely similar across epilepsy and healthy subjects


Study, first author, year (N=)	Objective	n	Population	PhC	Sleep variables	Main findings
Manni, 1993, cross-sectional	Assess daytime sleepiness and performance performance in patients with IRE vs IRE	30 IRE, 30 IRE, 30 controls	Controlled CE	1 ambulatory	TOT, stage 1	No statistically significant intergroup differences in daytime sleepiness, performance, or IRE. Sleep parameters comparable between groups.
Gobb, 1993, interventional	Study effects of controlled epilepsy IRE on nocturnal sleep and daytime performance in IRE	7 patients, 5 controls	Sleep radio TEE	1 ambulatory, 2 on IRE	TOT, WSD, stage 1	Acute IRE increased daytime wakefulness and sleep stage shifts in controls and increased R stage in IRE. No significant sleep parameters between groups.
Comgel, 1996, interventional	Compare awake and sleep IRE on TEE and TEE metrics of variability	12 IRE, 10 IRE, 10 controls	Reference TEE, TEE	1 ambulatory, 1 on IRE	TOT, WSD, 5 WSD, 8	Waken state: IRE and controls similar in TEE. IRE had increased TEE and decreased sleep efficiency in IRE and controls.
Rempel, 2005, interventional	Evaluate add-on PGE on sleep radio and daytime performance in IRE	12 patients	Reference IRE	1 ambulatory, 1 ambulatory	TOT, WSD, stage 1	Increased daytime wakefulness and decreased metrics and TEE in IRE. IRE had similar sleep parameters between groups.
Manni, 2013, retrospective	Evaluate daytime sleepiness in newly diagnosed epilepsy	30 IRE, 17 IRE, 44 controls	Sleep radio CE, CE	1 ambulatory	TOT, WSD, stage 1	Daytime sleepiness and sleep parameters comparable between groups.

Sudbrack-Oliveira et al. Sleep Med 2019





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Benign epileptiform transients of sleep

Clarification of the small sharp spike controversy


JAMES C. WHITE, J. WILLIAM LANGSTON, TIMOTHY A. PEDLEY

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Abstract

Electroencephalograms were performed on 120 normal subjects sleep deprived for 24 hours. Twenty-four percent of the volunteers exhibited one or more epileptiform transients during stages 1 or 2 of non-rapid eye movement sleep. These potentials usually appeared as monophasic or diphasic spikes unaccompanied by sharp waves or focal slowing. When abundant, they occurred sporadically and independently over both hemispheres but were best developed in the anteromesial temporal regions. A 20 percent incidence of similar spikes was found in 599 consecutively referred patients recorded under the same conditions. We conclude that these epileptiform transients of sleep, which have been called "small sharp spikes," are normal and are of no diagnostic value in the evaluation of patients with seizures.

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Small sharp spikes was observed in 24% sleep deprived healthy volunteers, compared to 20% of 599 consecutively referred patients.

会上，Bright Frauscher教授和James Tao教授采用直播方式在线上作了《Bidirectional interactions between sleep and epilepsy》、《Intracranial correlates of scalp EEG epileptiform discharges》的报告。王爽作了题为《Biomarkers of the epileptogenic zone on intracranial EEG》的报告。汪仪作了题为《解构颞叶癫痫中致病环路》的报告。高召兵作了题为《针对钾离子通道KCNQ的靶向抗癫痫药物研发》的报告。张凯总结了其团队系列临床工作，作了题为《采用定量PET分析结合SEEG技术解析癫痫神经网络》的学术报告，安冬梅从功能磁共振角度作了题为《颞叶癫痫中的癫痫网络》的报告。王亮作了题为《人类空间导航过程中基于Theta节律的类网格表征的最新研究进展》的报告。王云作了题为《KCC2在癫痫形成与发展中的作用》的基础研究工作的报告。卢应梅作了题为《脑血管内皮细胞cdk5缺失诱发癫痫发作机制》的基础研究工作报告。



会议期间，来自临床和基础的癫痫研究专家、学者们进行了热烈讨论和交流，为癫痫未来治疗的优化以及全新治疗策略的探索提供了思路。

