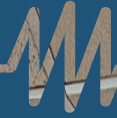


# news NEUROVIRTUAL



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## 2023 World Sleep Congress in Rio

The city of Rio de Janeiro served as the luxurious backdrop for the prestigious 2023 World Sleep Congress, which took place from October 23 to 25. This international event brought together sleep experts and professionals from around the world, and Neurovirtual not only participated but also stood out as a leader in the field. The Neurovirtual team present at the event included Andrea Parra, Sales Manager for Latin America, Ed Faria, President and CEO, as well as clinical experts and support team members. The sales team was also represented by Joseph Pardo, Katerin Laverde, Angie Medellín, Carolina Piñeros, Marjorie Valenzuela, Alexandre Ribeiro, and Diego Barrientos.



During the congress, Neurovirtual impressed participants with an expansive array of equipment, including the BWIII EEG Plus ICU Brain Monitor, BWIII EEG Plus, BWMini Ambulatory EEG, BWIII PSG Plus Polysomnograph, BWMini PSG Polysomnograph, HST Compass Respiratory Polygraph, and the BWCenter Patient Database HL7 Module. One of the highlights of the event was the BWIII EEG Plus ICU Brain Monitor, which was revealed to be essential for PSG and EEG monitoring and diagnosis.

In addition to the technological innovations presented, the 2023 World Sleep Congress also emphasized the International Sleep Research Training Program (IS RTP). This program is based on a network of 14 mentoring sites located in some of the world's most prestigious and productive research institutions. In each of these sites, at least one internationally renowned mentor acts as a leader in sleep research. Neurovirtual's prominent presence at the event not only demonstrated its commitment to innovation in clinical neurophysiology but also its leadership role in global sleep research, further solidifying its prominent position in the field.





Dr. Thomas J. Dye (Pediatric neurologist at Cincinnati Children's Hospital) and Dr. Lawrence Chan (Sleep disorders specialist at The Ohio State University).

## Neurovirtual organizes cocktail during the World Sleep Congress

The cocktail event, organized by Neurovirtual during the World Sleep Congress was an event filled with excitement and collaboration. The evening began with a presentation by Neurovirtual's President and CEO, Ed Faria, who shared a deeply personal message about his experience and how, over time, Neurovirtual has managed to expand to numerous countries. His message emphasized the idea that it is worth dreaming because dreams come true.

The event provided an enriching space for networking and information sharing among the attendees, totaling 105 doctors from 13 different countries. The diversity of perspectives and experiences present at the cocktail hour fostered deep and valuable discussions. The Windsor Barra Hotel, as the venue for the event, offered an elegant and conducive atmosphere for collaboration.

Among the international doctors who attended the cocktail event were renowned professionals, including Dr. Diego Garcia-Borreguero from Spain, Dr. Thomas Penzel from Germany, Dr. Lawrence Chan, Dr. Jesse Mindel, Dr. David Plante, and Dr. Thomas J. Dye, all from the United States, as well as Dr. Daniel Perez Chada from Argentina and Dr. Maria Angelica Bazaruto from Colombia. Additionally, the event featured prominent Brazilian doctors, including Dr. Geraldo Rizzo, among others.

This cocktail event became a valuable space for collaboration and learning for all participants.



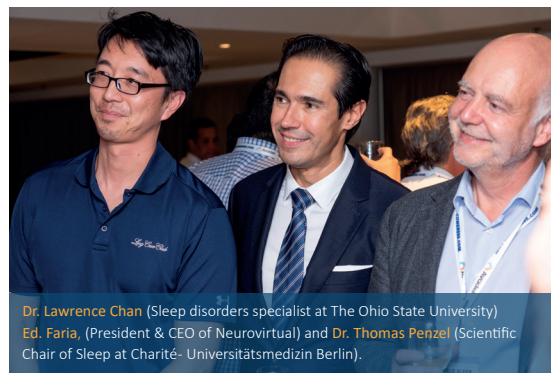
Ed. Faria (President & CEO of Neurovirtual) and Dr. Diego Garcia-Borreguero (Director of the Sleep Research Institute, Spain).



Ed. Faria (President & CEO of Neurovirtual).



Dr. Lawrence Chan (Sleep disorders specialist at The Ohio State University), Ed. Faria, (President & CEO of Neurovirtual) and Dr. Jesse Mindel (Neurologist at The Ohio State University).



Dr. Lawrence Chan (Sleep disorders specialist at The Ohio State University), Ed. Faria, (President & CEO of Neurovirtual) and Dr. Thomas Penzel (Scientific Chair of Sleep at Charité- Universitätsmedizin Berlin).



Dr. Thomas Penzel (Scientific Chair of Sleep at Charité- Universitätsmedizin Berlin).



Dr. David Plante (Medical Director at the University of Wisconsin Sleep Clinic).



## Exploring Sleep Medicine Advancements: Highlights from The Sleep Symposium 2023

The 2023 Sleep Symposium at The Ohio State University shone as an important gathering, uniting experts and professionals in the field of sleep medicine. Neurovirtual, with Sergio Solis, National Account Manager, was privileged to participate as a vendor sponsor in this symposium.

Throughout the symposium, a diverse array of discussions unfolded, accompanied by captivating presentations from distinguished speakers. The topics covered a wide spectrum, ranging from troubleshooting PAP adherence to the application of precision medicine in pediatric sleep care. Notably, Ulysses Magalang, MD, delivered an enlightening presentation on the potential of CPAP in preventing cardiovascular events in obstructive sleep apnea. These deliberations provided attendees with a comprehensive understanding of the latest advancements in the field.

A important moment during the symposium was the opportunity to engage with Danielle Livelsberger, the manager of the OSU Sleep Labs. She not only serves as a valued partner of Neurovirtual but also as a key collaborator. Their use of Neurovirtual’s polysomnography equipment within the Wexner Medical Center’s sleep lab at The Ohio State University underscored the practical impact of our collaboration.

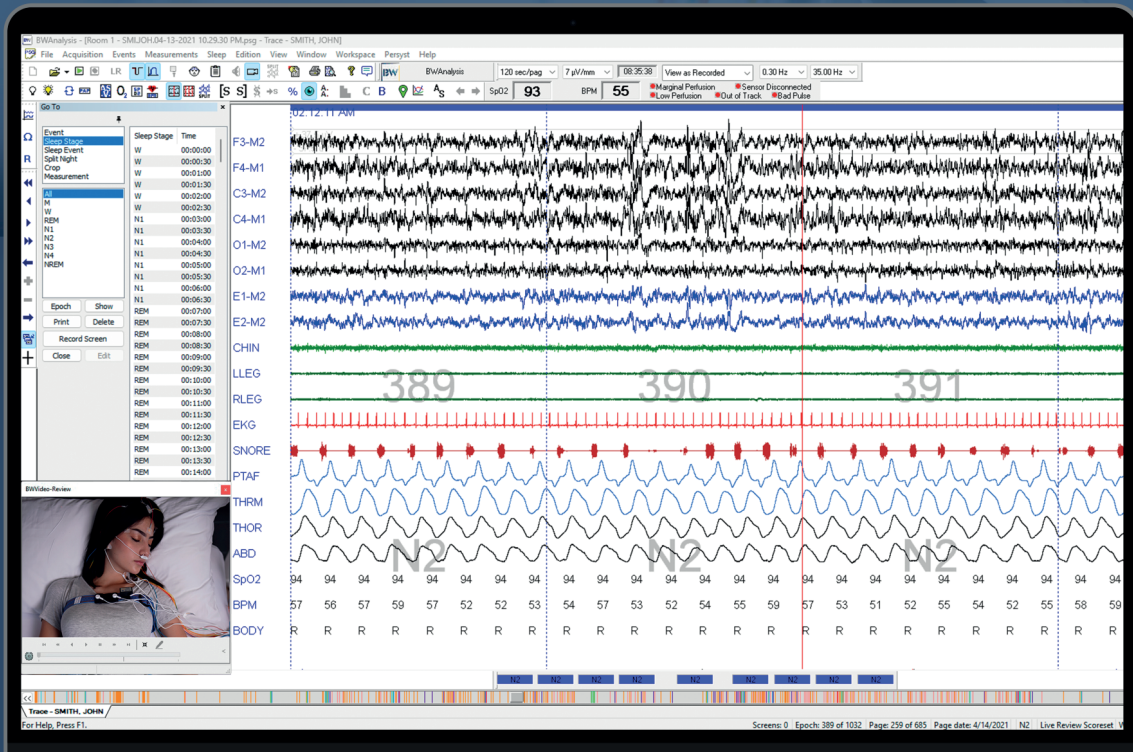
The 2023 Sleep Symposium at The Ohio State University emerged as a fertile ground for reaffirming the importance of pushing the boundaries of sleep medicine to enhance patient care and well-being.



Sergio Solis (National Account Manager) and Danielle Livelsberger (Sleep Lab manager at the Ohio State University Medical Center Sleep Lab).



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More information





## The Latin American Symposium on QEEG Electro and Quantitative Video 2023: Illuminating the Path of Knowledge in EEG

On September 29th and 30th, 2023, in Lima, Peru, significant days were marked, as the DoubleTree by Hilton Hotel became the center of the Latin American Symposium on QEEG Electro and Quantitative Video 2023.

This symposium brought together a distinguished selection of internationally renowned speakers who shared their expertise and knowledge. Among the notable speakers were Dr. Alejandro Escalaya, Dr. Armin Delgado, Dr. Carolina Malamud, Dr. Clio Rubinos, Dr. Elliot Barreto, Dr. Jean Paul Vergara, Dr. Johnny Montiel, Dr. Jorge Burneo, Dr. Luis Carlos Mayor, Dr. Marlene Huamani, Dr. Mirla Vanessa Villafuerte, Dr. Nora Rojas, and Dr. Walter De la Cruz.

The topics that were covered ranged from “GENERATORS OF THE ELECTROENCEPHALOGRAM,” presented by Dr. Alejandro Escalaya, to “QUANTITATIVE EEG,” led by Dr. Luis Carlos Mayor. Additionally, crucial aspects such as “THE EEG REPORT,” presented by Dr. Marlene Huamani, “EEG IN COMA,” with Dr. Clio Rubinos, and “FOCAL EPILEPSIES,” presented by Dr. Walter De la Cruz, were discussed. Issues of great relevance in “CLINICAL CASES” were directed by Dr. Jean Paul Vergara, and “PERIODIC AND PSEUDOPERIODIC PATTERNS” were analyzed thanks to the expertise of Dr. Elliot Barreto.

The symposium attracted a diverse group of participants, including physicians and residents from 11 different countries, including Mexico, Colombia, Argentina, Panama, Peru, El Salvador, Chile, Ecuador, Venezuela, Guatemala, and Belize. Furthermore, an impressive 96.8% of participants who responded to the quality survey expressed their desire to participate in future EEG courses offered by Neurovirtual.

Some testimonials from participating physicians at the symposium included: “Excellent presentation and coordination. Always grateful to you,” “Excellent speakers and good organization,” and “Excellent speakers and instruction.”

Dr. Jorge Burneo, one of the distinguished speakers at the event, shared his vision:

*“(…) Through more meetings like this, we can enhance our knowledge in EEG reading and, ultimately, in the treatment of epilepsy, which will benefit our patients.”*

In summary, the Latin American Symposium on QEEG Electro and Quantitative Video 2023 stood out as a highly



*“(…) Through more meetings like this, we can enhance our knowledge in EEG reading and, ultimately, in the treatment of epilepsy, which will benefit our patients.”*

*- Dr. Jorge Burneo, one of the distinguished speakers at the event.*

relevant event that has driven education and the exchange of knowledge in the field of EEG in Latin America. Neurovirtual’s strong commitment to medical education and the exceptional quality of its speakers played a pivotal role in the resounding success of this initiative, leaving a lasting impact on the medical community in the region and promoting substantial improvements in the diagnosis and treatment of patients in the future.



Dr. Jorge Burneo, Dr. Luis Carlos Mayor, Dr. Jean Paul Vergara, Dr. Martín Torres, and Dr. Clio Rubinos.



# Selected research publications using Neurovirtual technology Sleep Medicine and Neurology

## SLEEP MEDICINE

BWIII PSG Plus

- **Neutral supporting mandibular advancement device with tongue bead for passive myofunctional therapy: a long term follow-up study** - Stanford University Sleep Medicine Division, Stanford, CA, USA – Yu-Shu Huang, Li-Chuan Chuang, Michèle Hervy-Auboiron, Teresa Paiva, Cheng-Hui Lin, Christian Guilleminault. – **Sleep Medicine** – Published: 5 July 2019.

BWIII PSG Plus

- **Hypoxia Differentially Affects Healthy Men and Women During a Daytime Nap With a Dose-Response Relationship: a Randomized, Cross-Over Pilot Study** – Charité-Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin and Humboldt-Universität zu Berlin, Experimental and Clinical Research Center, Berlin, Germany – Alain Riveros-Rivera, Thomas Penzel, Hanns-Christian Gunga, Oliver Opatz, Friedemann Paul, Lars Klug, Michael Boschmann and Anja Mähler. – **Frontiers in Physiology** – Published: Front. Physiol., 24 May 2022.

BWIII PSG

- **Large body movements on video polysomnography are associated with daytime dysfunction in children with restless sleep disorder** – Division of Neurology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA – Wei K Liu, Thomas J Dye, Paul Horn, Connor Patterson, David Garner, Narong Simakajornboon – **OXFORD Academic – Sleep**, zsc005, - Published: 11 January 2022.

BWIII PSG Plus

- **Changes in craniofacial and airway morphology as well as quality of life after passive myofunctional therapy in children with obstructive sleep apnea: a comparative cohort study** – Stanford University Sleep Medicine Division, Stanford, CA, USA – Li-Chuan Chuang, Yi-Jing Hwang, Yun-Chia Lian, Michèle Hervy-Auboiron, Paola Pirelli, Yu-Shu Huang, Christian Guilleminault. – **Sleep and Breathing** – Published: 03 September 2019.

BWIII PSG Plus

- **Different positron emission tomography findings in schizophrenia and narcolepsy type 1 in adolescents and young adults: a preliminary study** – Department of Child Psychiatry and Sleep Center, Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Taoyuan, Taiwan – Wei-Chih Chin, MD, Feng-Yuan Liu, MD, Yu-Shu Huang, MD, PhD, Ing-Tsung Hsiao, PhD, Chih-Huan Wang, PhD, Ying-Chun Chen, MD – **Journal of Clinical Sleep Medicine** – Published Online: April 1, 2021.

BWII PSG

- **Acoustic enhancement of slow wave sleep on consecutive nights improves alertness and attention in chronically short sleepers** – University of Wisconsin-Madison, WI, USA – Charmaine Diep, Gary Garcia-Molina, Jeff Jasko, Jessica Manousakis, Lynn Ostrowski, David White, Clare Anderson. – **Sleep Medicine** – Published: 30 January 2021.

BWIII PSG Plus

- **The “respiratory REM sleep without atonia benefit” on coexisting REM sleep behavior disorder – obstructive sleep apnea** – Medical Education and Clinical Research Center “Norberto Quirno” (CEMIC), Neurology - Sleep Medicine - Buenos Aires City - Buenos Aires – Argentina. Daniela L. Giardino, Paola Fasano, and Arturo Garay – **Sleep Science** – Published: 14 April 2021.

BWIII PSG

- **Validation of the Brazilian version of the Pediatric Obstructive Sleep Apnea Screening Tool questionnaire** – Pontifical Catholic University of Rio Grande do Sul (PUC-RS), Graduate Program in Pediatrics and Child Health, Porto Alegre, RS, Brazil. – Priscila J.S. Pires, Rita Mattiello, Magali S. Lumertz, Thiago P. Morsch, Simone C. Fagundes, Magda L. Nunes, David Gozal, Renato T. Stein – **Journal of Pediatrics** – Published: Available online 1 March 2018, Version of Record 25 March 2019.

BWII PSG

- **Effectiveness of a Uniquely Designed Oral Appliance on Obstructive Sleep Apnea Control: A Pilot Study** – Division of Surgical Sciences, Department of Otorhinolaryngology, School of Medical Sciences, University of Campinas, UNICAMP, São Paulo, Brazil - Denise Fernandes Barbosa, Miguel Meira e Cruz, Marcelo Corrêa Alves, Edilson Zancanella, Fausto Berzin, Almiro José Machado Júnior. – **European Journal of Dentistry** – Published: 18 February 2022.

BWII PSG

- **Effects of acupuncture on obstructive sleep apnea severity, blood pressure control and quality of life in patients with hypertension: A randomized controlled trial** – Sleep and Heart Laboratory, Emergency Room Cardiology Hospital of Pernambuco (PROCAPE) at the University of Pernambuco, Recife, Brazil - Marcus Vinícius F. P. Silva, Thais C. Lustosa, Victor J. Arai, Tarcya L. G. Couto Patriota, Maria P. F. Lira, Ozeas L. Lins-Filho, Sintya T. Chalegre, Kamilla B.B.A.S., Isaac V. Segundo, Rodrigo P. Pedrosa – **Journal of Sleep Research** – Published: 23 December 2019.

BWMini PSG

- **Temporomandibular disorders in patients with polysomnographic diagnosis of sleep bruxism: a case-control study** – Neuroimmune Pain Interface Lab, Faculdade São Leopoldo Mandic, Campinas, Brazil - Andrea Sinclair, Mieszko Wieckiewicz, Dominik Ettlin, Raimundo Junior, Antônio Sérgio Guimarães, Michele Gomes & Miguel Meira e Cruz. – **Sleep and Breathing** – Published: 08 August 2021.

## NEUROLOGY

BWIII EEG Plus

- **Reversible focal intracranial hypertension swine model with continuous multimodal neuromonitoring** – Neurology Service, Italian Hospital of Buenos Aires, Argentina - Nicolas Marcelo Ciarrocchi, Fernando Pose, Pablo Saez, Maria del Carman Garcia, Fernando Padilla, Pedro Plou, Santiago Hem, John George Karippacheril, Alejandro Figar Gutierrez, Francisco O. Redelico. – **Journal of Neuroscience Methods** – Published: 1 May 2022.

BWIII EEG

- **EEG Characteristics During Mindfulness Meditation Among Buddhist Monks in a Sri Lankan Forest Monastery** – Department of Medicine, Faculty of Medical Sciences, University of Sri Jaywardenepura, Nugegoda, Sri Lanka -Chamil Marasinghe, Varuni Tennakoon & Sanath T. C. Mahawithanage – **Mindfulness** – Published: 25 September 2021.

BWIII EEG

- **Reduction of photoparoxysmal response from patients with drug-resistant photosensitive epilepsy by using Z1 filters** Reducción de la respuesta fotoparoxística en pacientes con epilepsia fotosensible farmacorresistente mediante el uso de filtros Z1 – Neurology Department, Hospital Británico de Buenos Aires, Argentina - O.A.Martinez, L.Lagos, G.Ernst, R.Ebner – Neurología is the official journal of the **Sociedad Española de Neurología** – Published: Available online 2 February 2021, Version of Record 11 January 2022.

BWII EEG

- **Automatic Detection of Epileptic Waves in Electroencephalograms Using Bag of Visual Words and Machine Learning** – Physics Department, Universidad del Cauca, Popayán, Colombia – Marlen Sofía Muñoz, Camilo Ernesto Sarmiento Torres, Diego M. López, Ricardo Salazar-Cabrera & Rubiel Vargas-Cañas – **International Conference on Brain Informatics** – Published: 15 September 2020.

BWII EEG

- **Intelligent Telehealth System To Support Epilepsy Diagnosis** – Telematics Department, Universidad del Cauca, Popayán, Colombia - Edward Molina, Camilo Ernesto Sarmiento Torres, Ricardo Salazar-Cabrera, Diego M López, and Rubiel Vargas-Cañas – **DovePress** – Published: 15 May 2020.

BWII EEG

- **Epileptic spikes detector in pediatric EEG based on matched filters and neural networks** – University of Cauca, Popayán, Colombia - Maritza Mera-Gaona, Diego M. López, Rubiel Vargas-Cañas, and María Miño – **Brain Informatics** – Published: 24 May 2020.

BWII EEG

- **Differences in electroencephalographic spectra during pre-sleep wakefulness, N1, and R sleep between comorbid insomnia and obstructive sleep apnea** – Clinic of Sleep Disorders, National University of Mexico (UNAM), Mexico City, Mexico - Angela M. Páramo-Brando, Pilar Durán, Irma Y. del Río-Portilla, Adrián Poblano & Reyes Haro – **Sleep and Breathing** – Published: 03 December 2019.



Neurovirtual participates, on average, in 20 to 30 congresses and conferences in different countries around the globe. Taking our goal to humanize the diagnostic, we pride ourselves on being part of this community and being able to give our contribution to clinicians and patients.

Below you will find the list of events for 2024 where Neurovirtual will be presenting its solutions to make neurology and sleep diagnostics more human! We hope to see you there!

The **BWIII EEG Plus ICU Brain Monitor** is an all-in-one cart based system which can perform routine EEG, LTM, and ICU Monitoring for increased mobility demands.



**USA**

**SLEEP 2024**

Houston, TX  
June 1 - 5, 2024

**MEXICO**

**Annual Congress of the Mexican Society of Pediatric Neurology**

Guadalajara  
May 6 - 11, 2024

**BRAZIL**

**XXI São Paulo Sleep Medicine Congress**

São Paulo, SP  
May 17 - 18, 2024

**Brazilian League of Epilepsy Congress**

Curitiba - PR  
June 5 - 8, 2024

**LATAM**

**Latin American Epilepsy Congress**

Santo Domingo, Dominican Republic  
June 15 - 18, 2024

**Peruvian Neurology Congress**

Cusco, Peru  
July 4 - 6, 2024

**COLOMBIA**

**Sleep Medicine Course in Pediatrics from Neonates to Adolescents**

Medellín  
March 22 - 23, 2024

**Latin American Sleep Congress**

Bogotá  
April 24 - 27, 2024

**Contact us:**

Neurovirtual News - 3303 W Commercial Blvd. Fort Lauderdale, FL 33309 - USA  
+1 (786) 693-8200 - info@neurovirtual.com / [www.neurovirtual.com](http://www.neurovirtual.com) - **Marketing:** Jessika Brito (jessika@neurovirtual.com). **Supervision:** Ed Faria (efaria@neurovirtual.com). **Contributors:** Sergio Solis (ssolis@neurovirtual.com); Allison Ries (aries@neurovirtual.com).

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