Best Practices for EEG Analyses in Nonclinical Seizure Liability Studies, Upcoming Webinar Hosted by Xtalks

Drug-induced seizures are a significant complication in drug development. While the electroencephalogram (EEG) is clinically translatable and is the gold standard for assessing a drug’s seizure liability, the analysis and use of the tool differs widely between clinical and preclinical practices. A combination of expert-driven and computerized toolbox-aided EEG analysis approaches can yield the best results. Learn more about these strategies by registering for this free webinar.

TORONTO (PRWEB) June 04, 2019 -- Most preclinical EEG visualization platforms offer tools intended to automate the search for salient features of seizure risk signals, usually based on variations of amplitude, frequency or spike train detection. In the clinic, however, the neurologist-driven EEG interpretation remains the only acceptable diagnostic methodology due to the complexity and variability of the signal, and automation tools are used only in support of that interpretation. In preclinical studies, the lack of defined criteria for EEG analysis and the widespread use of automated detection without expert interpretation present a significant risk to the accurate assessment of seizure liability.

In this webinar, attendees will gain insights into the applicability of EEG to preclinical seizure de-risking with a specific focus on the tenets of high-quality data analysis as aligned with well-established neurology clinical practices. A survey of 48 datasets from rats, dogs, and monkeys will illustrate a consistent lack of specificity with automated algorithms, suggesting that algorithms can be optimized to detect abnormalities with high specificity or high sensitivity, but not both.

Join Chris Douglas, PhD, Senior Scientist, Neuroscience and Study Director Safety Pharmacology at Covance and Monica Metea, PhD & DSP, Consultant at Preclinical Electrophysiology Consulting in a live session on Thursday, June 27, 2019 at 11am EDT (4pm BST/UK) to learn about:

- Principles of EEG signal collection and analysis
- EEG features specific to preclinical telemeterized models
- Key concepts related to the search for abnormalities
- Strategies for avoiding analysis pitfalls such as false positives and false negatives
- Case studies that illustrate the limits of automated approaches
- A tiered approach to preclinical EEG data analysis to reduce the risk of incorrect interpretations and omissions
- The use of EEG in regulatory conversations

For more information or to register for this event, visit Best Practices for EEG Analyses in Nonclinical Seizure Liability Studies.

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