cortiQ is the New Way of Brain Mapping for the Operating Room and Neuro Monitoring Unit

Epilepsy is a common neurological disorder that affects a large portion of the world population. Most affected people can control epileptic seizures with medication, but for around 15-20 % of this population, medication is not effective, and some of these patients choose surgery. Brain cancer is another reason for surgery. There are various types of brain tumors, and the aim of surgery is to remove the tumor (or at least parts of it) while causing as little damage as possible to the healthy and eloquent brain tissue. cortiQ was developed to help surgeons identify functional brain regions with high-gamma activity before surgery.

Visit us at **MEDICA 2016** in **hall 17, booth D20**!

cortiQ – Rapid Cortical Mapping

cortiQ was developed to help surgeons identify functional brain regions with high-gamma activity before the surgery. Neurosurgeons will be able to use and modify cortiQ paradigms based on individual surgical needs. The system will then give patients tasks related to the functional activities performed by the brain tissue near the epileptic focus or tumor. With cortiQ, important "eloquent" brain areas can get identified to avoid damage during the surgery. "*ECoG-based functional mapping takes much less time than the traditional method of electrical stimulation (minutes vs. hours), and does not increase the risk of epileptic seizures or other complications,*" says Gerwin Schalk, Research Scientist at the Wadsworth Center in Albany.

Benefits for Physicians

Unlike ECS, cortiQ does not produce artificial seizures nor pain. cortiQ allows physicians to create an individual real-time MAP (Mental Activity Profile) for each patient and to plan surgery better, with more detailed information and less preparatory work. It can be used at the patients' bedside or in the operating room.

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