



Short profile NeuroIndex

CHARITÉ/BIH-PARTNER WANTED!
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Medical field	Anaesthesia / Neurology
Product (name and type)	NID (Advanced technologies, Medical Devices, Diagnostics, and Decision support tool)
Growth stage	Proof of Concept
Founders	Dr. Shimon Eckhouse (Chairman)

Description of product:

NeuroIndex is an intra-operative brain monitoring platform for assessing **brain health during anaesthesia** and alert in real-time for development of brain damage. Using a unique electrodes architecture and AI based algorithm, NeuroIndex aims at preventing Post-Operative Cognitive Decline/Postoperative Neurocognitive Disorders. The core product is an EEG-based brain function monitor, utilizing four EEG & one EMG channels, supporting online analysis of brain dynamics in response to specific auditory stimuli emitted via an earbud headset. A unique task-related, integrated algorithm produces two indices for brain dynamics: API (anterior-posterior index) and ISI (inter-hemispheric index) that are used to detect brain damage in real-time.

Project goal:

Clinic: Evaluate and present the association between intra operative brain dynamics (in the observation group) and the occurrence of POCD in older patients (>65 years) undergoing surgeries. Demonstrate a decrease in POCD occurrence in the intervention group compared to the observation group

Company: NeuroIndex will supply the EEG system, perform the data analysis and results analysis. Partner Hospital will be responsible for the data collection perioperative.

Project type:

The company is looking for a clinical partner to conduct a clinical trial.

Estimated Time for Validation: 2 years

Estimated Project Duration: 2 years



Eligible by the IIA



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N/A

