

# **INTERNET NEWS**

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**PK TMH**

## **Ceribell Launches ClarityPro™ AI, Critical Diagnosis of Electrographic Status Epilepticus**

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- AI-based software algorithm within the Ceribell EEG system that analyzes EEG waveforms to diagnose electrographic status epilepticus (ESE). It is the first acute care device to be FDA indicated for stand-alone diagnosis.
- ClarityPro can continuously monitor patients' brain activity
- suspected seizures and can diagnose and alert for ESE,
- evaluate the efficacy of seizure medication.
- aid neurologists during EEG review

## **Ceribell Launches ClarityPro™ AI, Critical Diagnosis of Electrographic Status Epilepticus**

- more easily expand brain monitoring capabilities to acute care departments at a fraction of the cost of conventional EEG, while also helping to reduce use of unnecessary medication, intubations and patient transfers, and shortening ICU length of stay



# Microfluidic System Incorporates Eight Organ Tissues

- study complex interactions between different organs during disease.
- comprehensive drug testing that investigates the effects of drug candidates on multiple organ systems at once.

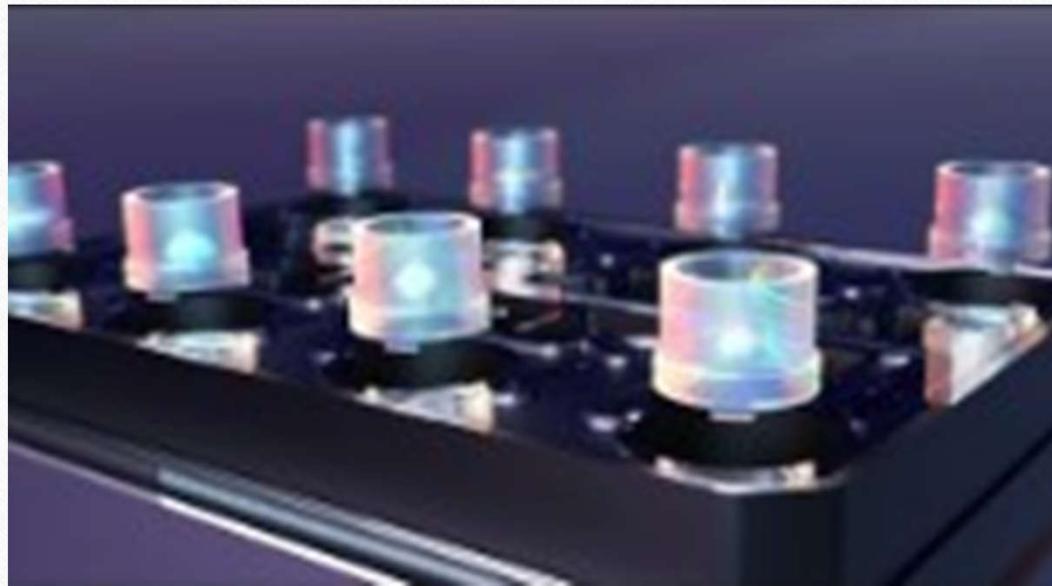


# Microfluidic System Incorporates Eight Organ Tissues

Called Lattice, the entire system fits into a space the size of a child's shoebox, and can be connected to a computer to control how nutrient-rich media flows into and out of each organ system.



# Microfluidic System Incorporates Eight Organ Tissues



# Treat chronic insomnia with Modius Sleep device.

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- Neurovalens has received medical device clearance from the US Food & Drug Administration (FDA)
- deliver non-invasive electrical stimulation to key areas of the brain and nervous system without the need for surgically implanted electrodes.



# Treat chronic insomnia with Modius Sleep device.

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- Modius Sleep is designed to improve insomnia by delivering a small and safe electrical pulse to the head for a period of 30 minutes before bed, during which users can do other activities, such as watching TV or reading.

# Far infrared patches

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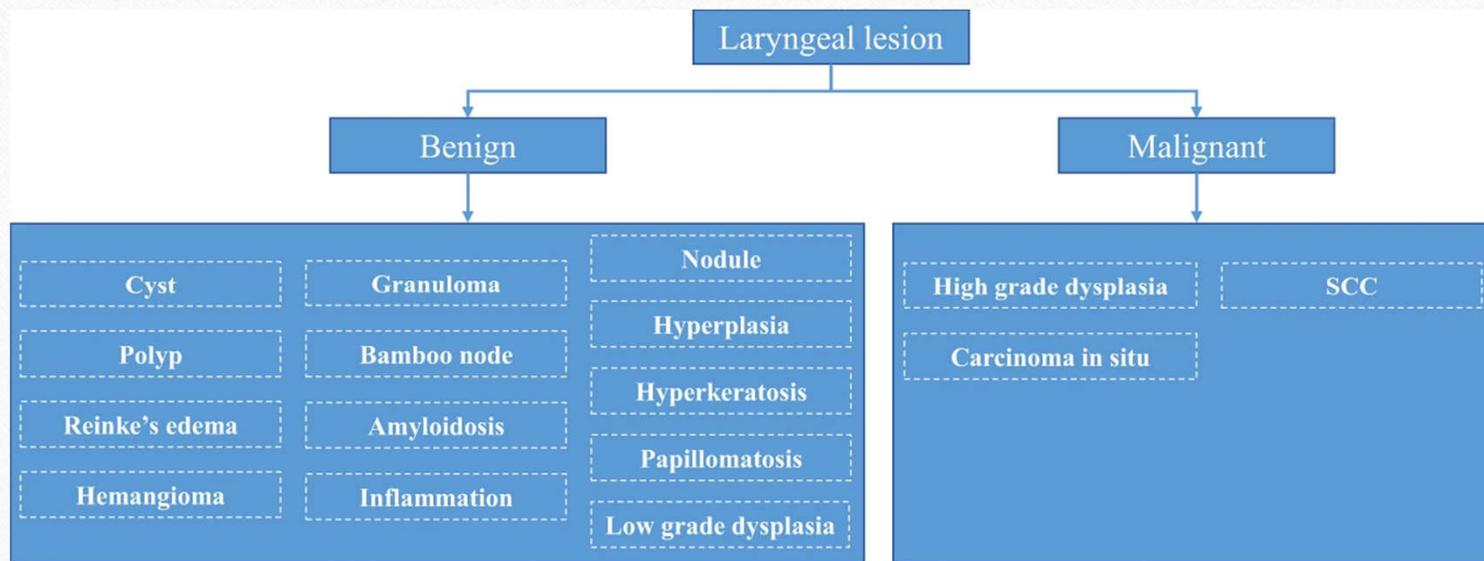
- use infrared technology to reflect back into the skin some of the energy that the body releases. The reflected energy causes local changes in the blood flow within the smallest vessels under the skin and because of this, it is believed that pain may be reduced.
- a simple wearable patch.
- meaningful reduction in acute MSK related lower back pain up to five days in adult subjects.

## **Contact Endoscopy – Narrow Band Imaging (CE-NBI) data set for laryngeal lesion assessment**

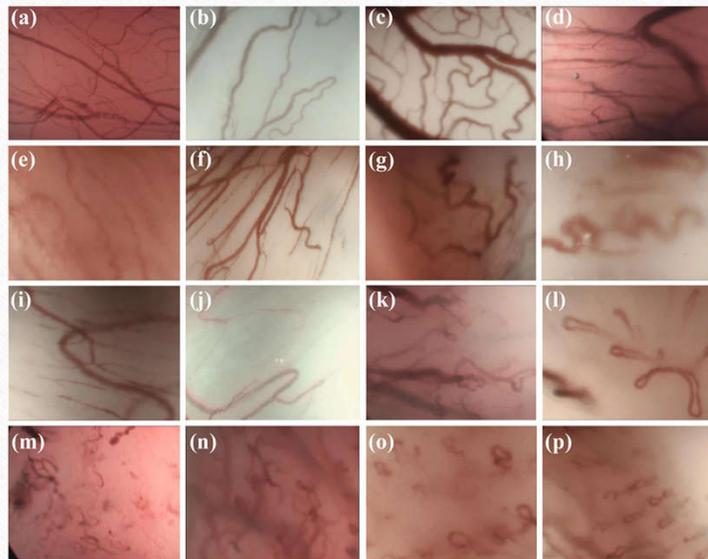
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- This study introduces the CE-NBI data set, the first publicly accessible data set that features enhanced and magnified visualizations of subepithelial blood vessels within the vocal fold.
- This data set encompasses 11144 images from 210 adult patients with pathological vocal fold conditions, where CE-NBI images are annotated using three distinct label categories.
- The data set has proven invaluable for numerous clinical assessments geared toward diagnosing laryngeal cancer using Optical Biopsy

## Contact Endoscopy – Narrow Band Imaging (CE-NBI) data set for laryngeal lesion assessment



## Contact Endoscopy – Narrow Band Imaging (CE-NBI) data set for laryngeal lesion assessment



The example of CE-NBI images for every histopathology. (a) Cyst, (b) Polyp, (c) Reinke's edema, (d) Hemangioma (e) Granuloma, (f) Bamboo nodes, (g) Amyloidosis, (h) Inflammation, (i) Nodule, (j) Hyperplasia, (k) Hyperkeratosis, (l) Papillomatosis, (m) Low grade dysplasia, (n) High grade dysplasia, (o) Carcinoma in situ, and (p) SCC.

The full data set, including all images and labels, is available from Zenodo Repository (<https://zenodo.org/>) and can be downloaded from

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**Xin chân thành cảm ơn**