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New Zealand designs medical tool for gut disorders

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Diagnosing gastric symptoms has been a deeply challenging clinical problem



Alimetry, a spin-out of New Zealand's Auckland Bioengineering Institute (ABI) and the Faculty of Medical & Health Sciences (FMHS) has received FDA approval for a non-invasive device for the diagnosis of gut disorders.

Alimetry’s unique technology harnesses the power of stretchable electronics, wearables, digital health, and cloud-based analytics to deliver a completely non-invasive diagnostic tool.

Worn over the stomach, the device consists of a stretchable array containing electrodes that collects data by non-invasively sensing the activity of the stomach from the body surface.

The Gastric Alimetry test is performed in a clinical setting. Recordings are taken before and after a meal, while patients simultaneously log their symptoms into the Gastric Alimetry App. The system performs a high-resolution recording of digestive patterns from the skin surface and delivers clinical reports via the cloud to inform the diagnosis of gastric diseases and appropriate therapy.

The system is effective in the diagnosis of common stomach disorders including nausea and vomiting, gastroparesis, and functional dyspepsia, the gastric disorders which affect one in ten of the world’s population and cost billions of dollars in healthcare expenses.