ESOPHAGEAL SAMPLING S-CATHETER

MEDICAL DEVICES

Serpentine-shaped sampling catheter for point-of-care diagnosis of eosinophilic esophagitis.

TECHNOLOGY TYPE
Class I/II
Diagnostics
Eosinophilic Esophagitis

STAGE OF DEVELOPMENT
- Developing preliminary prototypes.
- Working towards bench and clinical tests with prototypes.

IP PROTECTION
Provisional patent filed.

TECHNOLOGY SUMMARY
Eosinophilic esophagitis (EoE) is one of the most common reasons for food impaction and dysphagia among adults, with some studies indicating as many as 10 cases per 100,000 persons annually. Monitoring the disease involves multiple invasive biopsies and endoscopies requiring anesthesia. There is no cure.

A U researcher has developed a catheter as a non-invasive sampling tool for eosinophils in the esophagus. This catheter assumes a linear profile upon insertion, but once the stylet is removed, it becomes s-shaped. The catheter's s-shape enables sufficient mucosal sampling and contact with the esophageal wall. The catheter can be used without anesthesia, enabling point-of-care diagnostics.

FEATURES AND BENEFITS
- Point-of-care diagnostic device.
- Enables sufficient mucosal sampling through serpentine shape.
- Eliminates the costs, time, and risks associated with anesthesia.

INVENTOR PROFILE
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