

# EVALUATE MOTILITY MINIMIZE DISCOMFORT

Measure pressure and dimensions in the esophagus, pylorus, and anal sphincters with a patient-friendly solution that enables you to **Detect early. Treat early.**



Endoflip™  
impedance planimetry system

# DETECT MOTILITY DISORDERS

The Endoflip™ impedance planimetry system transforms the way you evaluate symptoms consistent with motility disorders and helps you minimize patient discomfort.<sup>1,2,3</sup>

This advanced imaging technology provides an internal view of the gastroesophageal (GE) junction during endoscopic and surgical procedures.

Real-time measurements of the pressure and dimensions in the esophagus, and other sphincters of the alimentary canal, help you identify major motility disorders.

Endoflip™ 2.0 impedance planimetry system with Flip™ topography<sup>1</sup> is complementary to high-resolution manometry (HRM) and other diagnostic methods.



Product features	Endoflip™ 1.0	Endoflip™ 2.0
Flip™ imaging software	✓	✓
Cart	✓	✓
Multiple balloon catheter sizes	✓	✓
Real-time measurement	✓	✓
Diameter/compliance in alimentary canal	✓	✓
Screen size	10.5"	24"
Flip™ topography		✓
Real-time measurements over time		✓
Screening for swallowing and motility disorders		✓
Data output	Raw data to USB	Electronic patient record/DICOM interface

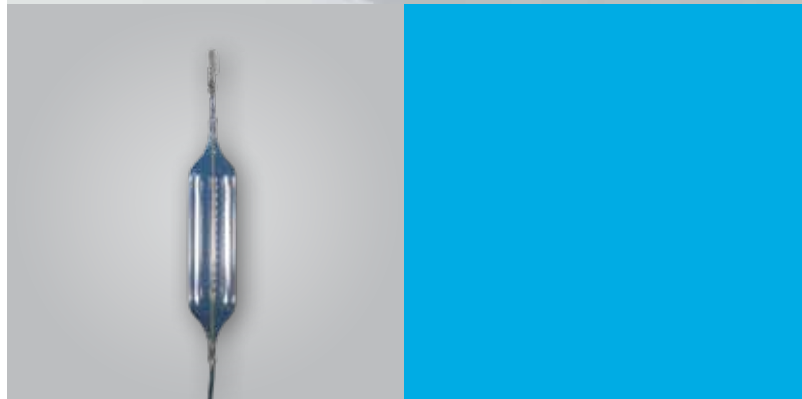
# TREAT ESOPHAGEAL STRICTURES

The Esoflip™ balloon catheter interfaces with the Endoflip™ impedance planimetry system and provides controlled dilation of strictures — without the need for fluoroscopy.

A comprehensive view of the esophagus lets you accurately measure strictures before and after each stage of balloon dilation. It enables you to dilate patients, slowly, in a controlled manner.

Esoflip™ balloon catheters are designed to:

- Dilate the gastroesophageal (GE) junction
- Dilate esophageal strictures
- Locate strictures easily
- Evaluate recoil after dilation
- Monitor balloon movement



## How it works

Flip™ technology is at the core of the Endoflip™ impedance planimetry system and the Esoflip™ balloon catheter.

Flip™ uses high-resolution impedance planimetry to measure luminal geometry and pressure during volume controlled distension. It helps you assess the mechanical properties of the esophageal wall and opening dynamics of the gastroesophageal junction in various esophageal diseases.

# TAKING GI CARE FURTHER, TOGETHER

Medtronic is proud to partner with physicians, hospitals, and institutions that share our commitment to early detection and treatment of chronic GI diseases and cancers.

For more information, please contact your Medtronic representative or visit [medtronic.com/gi](https://www.medtronic.com/gi)



**Caution:** Federal law restricts this device to sale by or on the order of a licensed healthcare practitioner. Rx only.

**Risk Information:** Similar to most procedures, the products featured here have inherent procedure risks associated. Please refer to the individual product user manuals for detailed information.

**Indication Statement:** The Endoflip™ system is indicated for use in a clinical setting to measure pressure and dimensions in the esophagus, pylorus, and anal sphincters. It is intended to be used as an adjunct to other diagnostic methods as part of a comprehensive evaluation of patients with symptoms consistent with gastrointestinal motility disorders. The EF-325 series of catheters can make pressure and dimensional measurements in the esophagus, pylorus, and anal sphincters; whereas the BF-325 series and EF-825 catheters can make dimensional measurements in the esophagus, pylorus, and anal sphincters. The EF-620 catheter can make dimensional measurements in the esophagus. Other indications for use include:

- To estimate the size of a stoma produced by a gastric band (all EndoFLIP® catheters)
- For use as an adjunct to a bougie for measuring the size of a gastric sleeve created during bariatric surgery, where it is suitable for diameter measurements for 22 to 60Fr sleeves (EF-620 catheter)

**Contraindication Statement:** The Endoflip™ system is contraindicated where endoscopy is contraindicated. The Endoflip™ system is contraindicated for use in patients with actively bleeding varices in the esophagus.

#### References:

1. Carlson DA, Kahrilas PJ, Lin Z, Hirano I, Gonsalves N, Listernick Z, Ritter K, Tye M, Ponds FA, Wong I, Pandolfino JE. Evaluation of Esophageal Motility Utilizing the Functional Lumen Imaging Probe. *Am J Gastroenterol* 2016;111(12):1726-1735.
2. Carlson DA, Lin Z, Kahrilas PJ, Sternbach J, Donnan EN, Friesen L, Listernick Z, Mogni B, Pandolfino JE. The Functional Lumen Imaging Probe Detects Esophageal Contractility Not Observed With Manometry in Patients With Achalasia. *Gastroenterology* 2015;149(7):1742-1751.
3. Gyawali CP, Bredenoord AJ, Conklin JL, Fox M, Pandolfino JE, Peters JH, Roman S, Staiano A, Vaezi MF. Evaluation of esophageal motor function in clinical Practice. *Neurogastroenterol Motil* 2013;25(2):99-133.

## Medtronic

IMPORTANT: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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