



**The Power of Z transforms your diagnostic accuracy.**

Z is the symbol for impedance\* — a measure that Sandhill Scientific uniquely applies to produce the most accurate, most-powerful, data-rich assessment.

Combined impedance/manometry clarifies which patients with manometric abnormalities actually have esophageal function disorders.

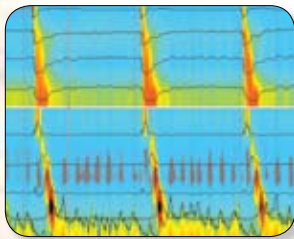
*"Impedance/Manometry classifies which manometric abnormalities are associated with a defect in esophageal transit and improves the specificity of manometry testing."*

**INSIGHT™** *EFT* Impedance/Manometry Esophageal Function System

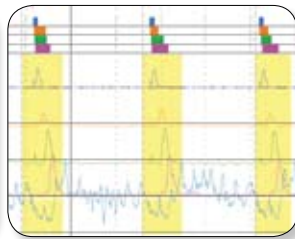




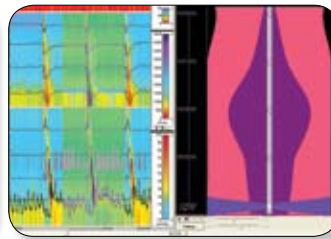
ContourVIEW 3 swallow map tool



RapidVIEW 3 swallow plot tool



SyncVIEW real-time playback tool



**BioVIEW™ Software, in addition to the standard waveform view, provides a choice of visual options designed to make analysis simple, including: ContourVIEW™, RapidVIEW™ and SyncVIEW™**

#### ContourVIEW™

- uses Contour mapping to provide a state of the art visual representation of the pressure and bolus transit data for ease of analysis

#### RapidVIEW™

- uses a block plot to provide a quick visualization of impedance channel analysis

#### SyncVIEW™

- synchronizes channel data with a time lapse replay or video to help visualize esophageal activity

#### Easy to Learn

- Acquisition screens show you only what you need to see, when you need to see it

#### Easy to Use

- State-of-the-art Windows® XP compatible software
- RapidVIEW's contour mapping provides state-of-the-art visual representation of the pressure and bolus transit data for ease of analysis
- InSIGHT procedure cart positions your monitor in an ideal position for both data acquisition & analysis

#### Flexible

- User definable analysis and report functions adapt to your preferences
- Perform analysis functions on the InSIGHT system or off-site windows based computer

## A Comparison between Manometry and Bolus Transit in Diagnosing Dysphagia

*No Difference in Manometry Results Among Patients With and Without Dysphagia*

*Significant Difference in Bolus Transit Results Among Patients With and Without Dysphagia*

- Patients with normal manometry can have impaired bolus transit.
- Patients with abnormal manometry can have normal bolus transit.
- Bolus transit is a more useful tool in dysphagia assessment.

The InSIGHT™ EFT system, with Sandhill's exclusive BioVIEW™ software, combines bolus transit dynamics and muscular activity to accurately assess esophageal function in **one simple swallow test.** Using impedance and manometry together clarifies which patients with manometric abnormalities actually have esophageal function disorders.

This is because bolus transit is the single most important parameter for assessing dysphagia and qualifying patients prior to anti-reflux surgery... *information that you cannot get with manometry alone.*

## Indications for combined Impedance/ Manometry testing

- Assess peristalsis with manometry
- Assess bolus transit with impedance
- Determine if dysphagia symptom is associated with bolus transit abnormality
- Determine LES position data for reflux probe placement
- Evaluate LES & esophageal body muscular activity
- Assess bolus transit effectiveness
- Used for pre-operative surgical qualification

**Multichannel Intraluminal Impedance: US Patent 5,109,870**

## Advanced Clinical Education

Comprehensive education is a critical element to the success of GI procedures and diagnostics. Under the direction of Dr. Donald Castell, world renowned esophagologist, Sandhill presents a variety of clinician training programs on GI diagnostic testing.



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