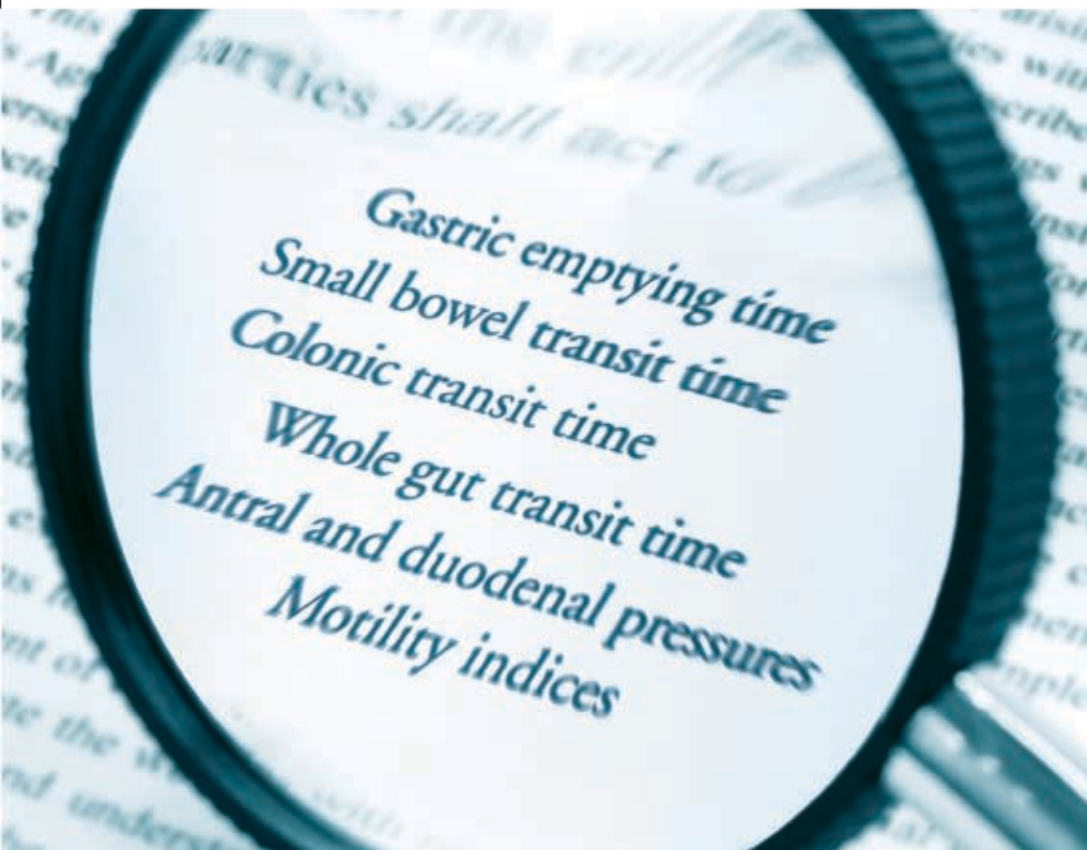


## OUR EVIDENCE. YOUR EXPERTISE.

SmartPill®: The data you need to evaluate motility disorders.



## SmartPill benefits your practice:

- Convenient – performed right in your office
  - Test standardization
  - Provides direct access to GI motility data
- 

## SmartPill benefits your patients:

- More comfortable than existing diagnostic tests
  - Well-tolerated – eliminates radiation exposure
  - Ambulatory – performed under real-life conditions
- 

SmartPill allows you to  
obtain data from the entire  
GI tract in one test.



#### INDICATIONS FOR USE:

The SmartPill GI Monitoring System measures whole gut and regional gut (stomach, small bowel, and colon) transit times. Measurements of gastrointestinal tract transit times are used for evaluating motility disorders.

Gastric transit time (gastric emptying time, GET) is indicated for the evaluation of patients with suspected gastroparesis. Delayed gastric emptying is implicated in such disorders as idiopathic and diabetic gastroparesis and functional non-ulcer dyspepsia.

Colonic transit time (CTT) is indicated for the evaluation of colonic transit in patients with chronic constipation and used to aid in differentiating slow and normal transit constipation. Combined small and large bowel transit time (SLBTT) is used as a surrogate measure of colonic transit in patients with chronic constipation when colonic transit time alone cannot be determined.

The System measures pH, pressure, and temperature throughout the GI tract. Pressure contraction data from the antrum and duodenum can be used to calculate motility indices.

Not for use in pediatric patients.

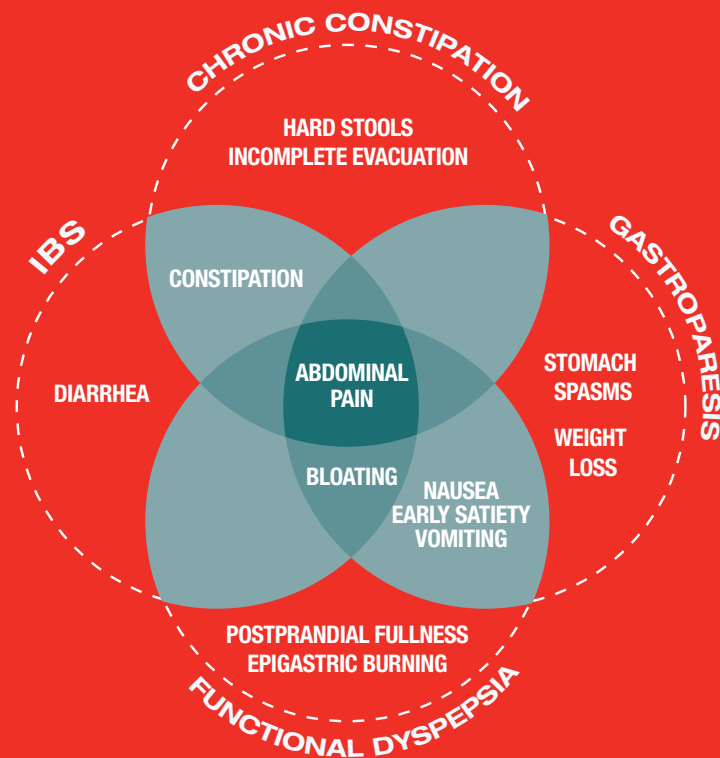


# Evaluate unexplained symptoms with one test.

Functional gastrointestinal (GI) symptoms are common in the general population with a reported prevalence of 25-40%, accounting for up to 40% of GI office consultations. Often, patients presenting with functional GI symptoms have evidence of a diffuse GI motility disorder.<sup>1</sup> Upper and lower gut symptoms often overlap, therefore localizing transit abnormalities to a specific GI region is important in diagnostic evaluation and should be done early in the process to guide appropriate therapy.<sup>2</sup>

Constipation, one of the most common functional GI disorders, affects 12-19% of the population. Consequently, in 2001 U.S. constipation-related healthcare costs averaged approximately \$235 million, with a mean annual cost of \$7,522 per patient.<sup>3</sup>

The SmartPill Motility Procedure – the latest advance in GI tract evaluation – can help. SmartPill collects data from the entire GI tract and provides the necessary information to thoroughly evaluate your patients. With SmartPill you retain patient control and expand your practice capabilities, eliminating the dependency on radiology.



1. Bonapace ES, Parkman HP, et al.: Whole Gut Transit Scintigraphy in the Clinical Evaluation of Patients with Upper and Lower Gastrointestinal Symptoms. The American Journal of Gastroenterology 2000; 95: 2838

2. Lin HC, Pimentel M, et al.: Measurement of Gastrointestinal Transit. Digestive Diseases and Sciences 2005; 50: 989

3. Talley, NJ, Baum CL, et al.: A Gap in Our Understanding: Chronic Constipation and Its Comorbid Conditions. Clinical Gastroenterology and Hepatology 2009; 7: 9-19

# Comfortable for patients. [Convenient for your practice.]

SmartPill is a single-use, ingestible Capsule that measures pressure, pH and temperature throughout the entire GI tract.

Once a patient ingests SmartPill, the Capsule transits the GI tract by peristalsis, transmitting data continuously for five days or more to a Data Receiver worn by the patient. The SmartPill Capsule is typically passed within a few days.

SmartPill's MotiliGI™ software is used to analyze the data, indicating results such as:

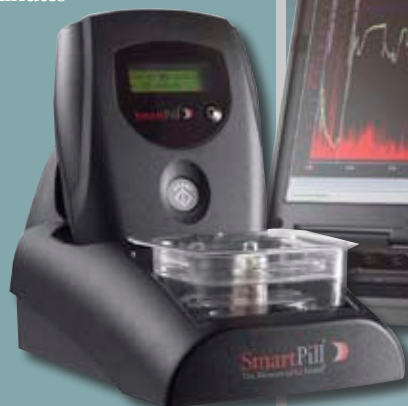
- Gastric emptying time
- Small bowel transit time
- Colonic transit time
- Whole gut transit time
- Antral and duodenal pressures
- Motility indices

Results are used for the evaluation of gastroparesis and chronic constipation.

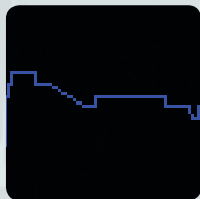
## Advanced analysis with MotiliGI™ software.

MotiliGI™ is a proprietary software program that calculates regional transit times in the gastrointestinal tract. MotiliGI™:

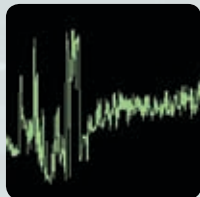
- Guides you through test start-up
- Downloads data from the Data Receiver within minutes
- Guides you through test analysis
- Generates graphic and text reports



*SmartPill monitors temperature to determine Capsule ingestion and passage from the body.*



*SmartPill's pH sensor detects changes in pH to identify physiological landmarks, calculating regional transit times.*



*MotiliGI™ uses pressure data to calculate motility indices for both the antrum and duodenum.*



# How SmartPill works:



**Day 1**  
The patient ingests the SmartPill Capsule in the physician's office.



**Day 1**  
While wearing the wireless Data Receiver, the patient leaves the physician's office and resumes a normal schedule.



**Day 1-5**  
The wireless Data Receiver is removed during bathing and sleeping.



**Day 3-5**  
The patient returns the Data Receiver to the physician and the test data is downloaded in just minutes.

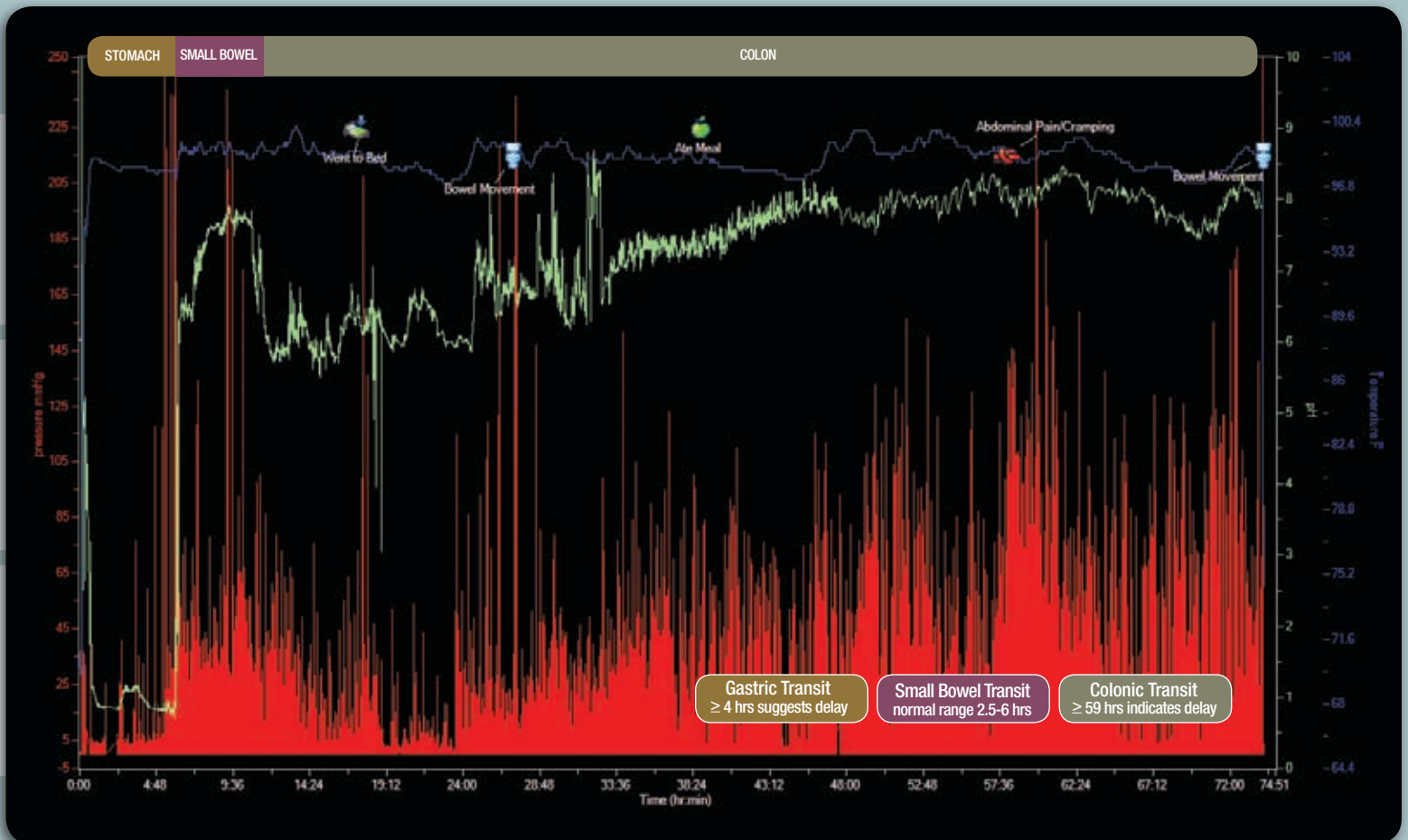


**Interpretation**  
The physician analyzes and interprets the test data.



**Consultation**  
The physician reviews the test results with the patient.

**MotilIGI™** data from a patient with delayed gastric emptying, normal small bowel transit and slow colonic transit.



# Get the evidence you need today.

For more information on **SmartPill**<sup>®</sup> – go to [www.smartpillcorp.com](http://www.smartpillcorp.com)

or call **1.800.644.4162**



**SmartPill**<sup>®</sup>   
The Measure of GI Health<sup>®</sup>

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800.644.4162 | 716.882.0701 | [smartpillcorp.com](http://smartpillcorp.com)

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The data you need to evaluate motility disorders.