



Size and performance in G.I. diagnostics.

The new ZepHr™ impedance/pH recorder is about *one-third the size and weight of Sleuth™*, but still incorporates all of the same outstanding characteristics that have made Sleuth™ the leading reflux recorder in the world. The ZepHr system employs impedance to detect reflux activity and uses pH to categorize each episode as acid or nonacid.

We call this unprecedented breakthrough **Total Reflux Monitoring**, because it delivers all the information you need for a precise, accurate assessment of acid and nonacid reflux as well as the correlation between reflux and symptoms.

ZepHr™ Impedance/pH Reflux Monitoring System



High Definition G.I. Diagnostics

All the data you need for precise, accurate assessment

Patients presenting with symptoms such as cough, heartburn, regurgitation and chest pain often are difficult to diagnose using traditional acid (pH) monitoring approaches.

Combining impedance and pH, **ZepHr** enables you to reliably distinguish between patients with acid reflux association, nonacid reflux association and symptoms with no reflux association.

Comprehensive analysis quantifies all reflux patterns and symptom associations in patients studied on or off acid suppression medication.

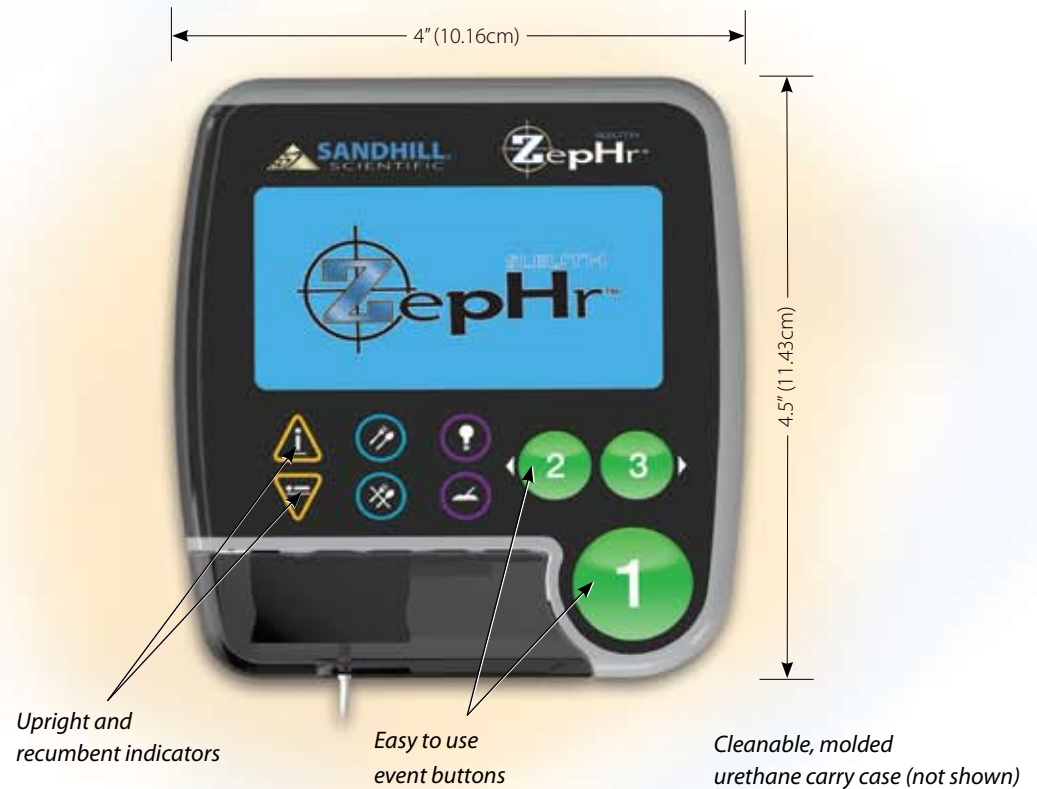
Indications for combined impedance/pH testing

- Persistent symptoms while on acid suppressive therapy
- Primarily postprandial symptoms
- Reflux symptoms and frequent meal ingestion (i.e., infants)

Treatment Conclusions

- Patients with nonacid reflux identified by impedance/pH whose symptoms have not responded to PPI therapy may benefit from the use of other medications.¹
- Positive symptom index for nonacid or acid reflux using impedance/pH predicts successful response to Laparoscopic Nissen Fundoplication.²
- Clinical trials have established that nonacid reflux can be associated with GERD symptoms. In addition, ZepHr provides a **true negative study** by identifying patients with no reflux association.²

Only 2 "AA" batteries are needed



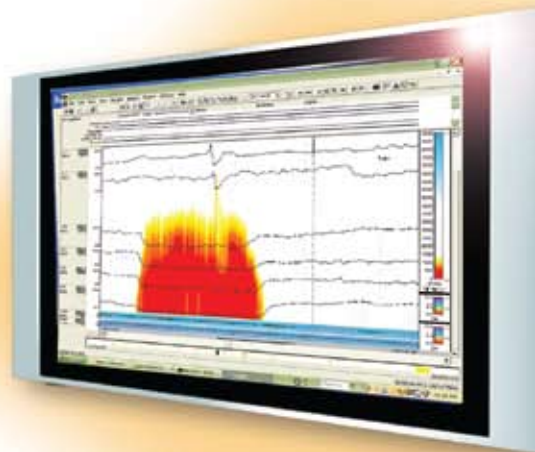
CompactFlash® card quickly and easily downloads data



Featuring BioVIEW® G.I. Diagnostic Software

Powered by Sandhill's world-renowned **BioVIEW®** analysis software (with the revolutionary **AutoSCAN®** feature), reports are generated simply and quickly, making reflux monitoring no longer a mystery. AutoSCAN* takes the guesswork out of interpreting a 24 hour impedance/pH study.

Plus, BioVIEW allows you to perform a **Z Swallow Challenge™** bolus transit screening test during an impedance/pH test with a single intubation. The test can be viewed and analyzed when the impedance/pH study is completed. Only this ZepHr/BioVIEW combination provides a simple and effective tool to identify patients with bolus transit impairment concurrently with acid and nonacid reflux monitoring.

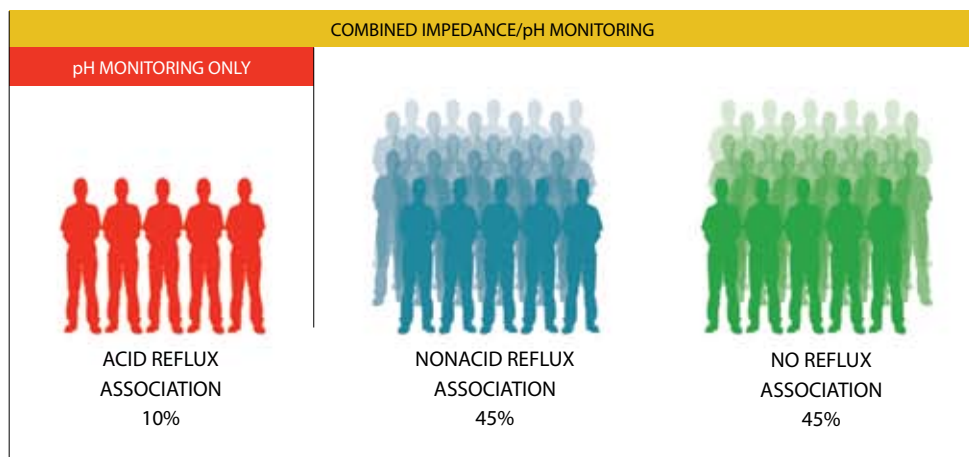


ContourVIEW™ (determines whether a reflux episode is acid or non-acid)



RapidVIEW™ (allows a quick visualization of bolus movement)

TOTAL REFLUX MONITORING³



* patent pending

1. Agrawal and Castell; *Reflux Reduction Therapy: When PPI's Are Not Enough*, Practical Gastroenterology, 68-72, April 2006.
2. Inder Mainie, R. Tutuan & D. O. Castell; Medical University of South Carolina; *Symptoms on PPI Therapy Associated with Nonacid, Acid or No Reflux*; ACG Presentation; October 2004.
3. Patients with typical symptoms (heartburn, regurgitation, chest pain) while on PPI Therapy.

A comprehensive report allows you to readily assess acid and non-acid movement of the refluxate.





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.

Only impedance (Z) technology enables you to differentiate patient diseases presenting with similar esophageal symptoms. The power of Z from Sandhill Scientific gives you all the data you need for superior differential diagnosis to help direct the most effective therapies.




Never be left in the dark...

Sandhill Scientific. The wisest choice for G.I. education.

Under the direction of **Dr. Donald Castell**, world-renowned esophagologist, Sandhill Scientific is the recognized leader for G.I. clinical education and training. Only Sandhill offers:

- Basic Esophageal and Anorectal seminars in our state-of-the-art Denver training facility
- Advanced manometry, impedance/manometry, and impedance/pH waveform analysis workshops
- Esophageal Reflux & Motility Testing Interpretation seminars
- Anorectal Manometry Interpretation seminars
- On-line **CyberCoach** clinical support
- On-line tutorials
- 24/7 technical support
- Monthly Webinars



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