

M

EDCO FORUM[®]

PRESENTING INNOVATIVE PRODUCTS AND SERVICES TO HEALTHCARE PROFESSIONALS

VOLUME 21 NUMBER 18

MAY 2014
REPRINT

HIGH DEFINITION THERAPEUTIC GASTROINTESTINAL VIDEOSCOPE—JUST LAUNCHED IN US MARKET

Olympus GIF-1TH190 offers NBI with HDTV and slim design

Recent advances in upper gastrointestinal endoscopy include innovative use of technology such as Narrow Band Imaging (NBI) coupled with High Definition (HD) image quality. HD is the established standard for high resolution screening and diagnosis, and in this endoscope the image quality is dramatically increased with sharper contours, more natural colors, and greater resolving power for visualization of fine details. Leveraging these technical imaging milestones, the Olympus GIF-1TH190 is the first one-channel therapeutic gastrointestinal videoscope to offer HD observation capabilities and NBI in a new, slimmer scope design.

“Imaging is increasingly important as we advance our minimally invasive techniques for resection of early neoplastic lesions,” explained Robert H. Hawes, MD, attending endoscopist at Florida Hospital. “If you cannot see, you cannot treat. NBI has proven to be important,” referring to the visual observation of mucosal and vascular patterns.

“If you want to do therapy, you must have optimal imaging,” continued Dr. Hawes. “Using the same scope for imaging and therapy is optimal. The new GIF-1TH190 will allow that.”

Gregory G. Ginsberg, MD, Professor of Medicine at the University of Pennsylvania Perelman School of Medicine and Director of Endoscopic Services at Penn Medicine, evaluated the prototype of the GIF-1TH190



Olympus GIF-1TH190 (Evis Exera III)
NBI-HDTV, 3.7 mm Channel

“I will probably use it for 80 to 90 percent of my EGD cases,” Robert H. Hawes, MD, attending endoscopist at Florida Hospital.

OPTICAL SYSTEM

- High Definition
- Narrow Band Imaging
- 140° field of view
- 2-100 mm depth of field

INSERTION SECTION

- Distal end outer diameter: 10.0 mm
- Insertion tube outer diameter: 10.9 mm
- Working length: 1030 mm
- Channel inner diameter: 3.7 mm

endoscope. “The attractive aspect of this scope is that it provides HD and electronic enhanced imaging with a large instrument channel. The outer diameter is not appreciably increased compared to a diagnostic scope. These attributes make it ideal for image guided therapy. I use it

for endoscopic resection of early gastric and esophageal cancers.” Dr. Ginsberg said.

Therapeutic Advantages of NBI-HDTV Scope

NBI-HD scopes, such as the GIF-1TH190, enhance the diagnostic value of the esophagogastroduodenoscopy (EGD), with respect to Barrett’s esophagus. The GIF-1TH190 provides superior visualization of the upper gastrointestinal (GI) tract to the duodenum. This translates to improved therapeutic procedures for everything from banding/sclerotherapy of esophageal varices to injection therapy (e.g. epinephrine in bleeding lesions) to removing larger pieces of tissue (as in EMR) and foreign bodies (e.g. food).

Based on his experience performing more than 20,000 EGD procedures, Dr. Ginsberg said that the GIF-1TH190 “is the most advanced state-of-the-art scope.” The larger channel on the Olympus scope allows physicians to “use larger devices, perform concurrent aspiration, and employ improved evacuation,” continued Dr. Ginsberg. “As it is totally immersible, it is faster, easier, and reliably set up and cleaned.”

The NBI-HD combination offers exceptional observation of capillary and mucosal structures and enhanced visualization of mucosal morphology, vascular patterns, and blood vessel appearance. “NBI has been validated as a visualization tool for mucosal based vascular patterns,” explained

Dr. Ginsberg. “Scopes offering NBI-HD capabilities, such as the Olympus GIF-1TH190, allow for critical observation of dysphasia, metaplasia, and inflammation” [in patients with Barrett’s esophagus.]

Third-Generation Technical Advances

The GIF-1TH190 offers an improved connector design, minimizing the effort required for setup prior to and in between cases. Fully submersible, this feature also eliminates the need for a water-resistant cap and the associated risk of an expensive repair due to accidental immersion. The waterproof, one-touch connection design of the GIF-1TH190 translates to easy and accurate operation. In addition, a forward water jet helps to keep the mucosa clear during observation and treatment.

“Much of my experience is with Barrett’s esophagus,” stated Dr. Hawes. “I often perform endoscopic mucosal resection (EMR). In the current situation, I have to examine the esophagus first with the standard HD gastroscope to utilize NBI (for careful examination of the mucosa) and then switch to the current IT gastroscope to perform the intervention. With the new system [GIF-1TH190], I will be able to do the entire procedure with one scope—much more efficient.”

“The operability [of the GIF-1TH190] is the same as the standard upper endoscope,” continued Dr. Hawes, who has performed

EGDs across his 28 year career in medicine. The “bending radius, excellent image, larger working channel, and very acceptable (thin) diameter allow use with all patients. It has superb maneuverability and imaging with a thin profile and a larger working channel.”

“I will probably use it for 80 to 90 percent of my EGD cases,” said Dr. Hawes. “The new layout of the scope’s distal end and its slim design offer an improved operability”. In NBI mode, the GIF-1TH190 provides twice the viewable distance of conventional EVIS EXERA II 180 series scopes and is significantly brighter. The 10.0 mm distal end diameter is 0.9 mm smaller than the predecessor; however, it maintains the device flexibility and suction of a 3.7 mm instrument channel diameter.

Dr. Ginsberg recommends the GIF-1TH190 for every practicing endoscopist: “It will need to be part of every hospital-based endoscopy unit for evaluation of upper GI bleeding and endotherapy.” The GIF-1TH190 as part of the EVIS EXERA III system offers tangible improvements over its predecessor, including an advanced imaging unit, better image processing, noise reduction, and reduced halation. ♦

For more information about the GIF-1TH190, please call Olympus at 800-848-9024, or visit www.medical.olympusamerica.com