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The clinical use of ERAT, LiuPOEM and NOTES

With the commencement of clinical use, endoscopy now covers a wide range of usage for clinical examination and minimally invasive surgery. It is a great trend and reality for such techniques to go further into a state of routine approaches in clinical practice. Now, I am willing to introduce the excellence of initiation and development of gastrointestinal endoscopy in three selected facets.

Endoscopic Retrograde Appendicitis Therapy--ERAT: Inspired by the success of ERCP for the treatment of suppurative cholangitis, we developed a new minimally invasive method for the treatment of acute appendicitis, and named as Endoscopic Retrograde Appendicitis Therapy (ERAT) in 2009. Typical steps of ERAT are: Cannulation into the appendiceal lumen, appendiceal lumen cleansing and decompression, endoscopic retrograde appendicography (ERA), appendicolithotomy-removal of appendiceal obstruction, plastic stent placement and release. Now, as a minimally invasive approach, ERAT can be used in almost all types of appendicitis, and might be golden criteria in differential and final diagnosis of appendicitis. We are sure that ERAT will be a popular method in the treatment of appendicitis and is worthy of promotion widely.

LiuPOEM: Peroral endoscopic myotomy (POEM) was developed to provide a less invasive and permanent treatment for esophageal achalasia. Based on this technique, we initiated a modified POEM approach and named as Liu-POEM, which is no need for creating a tunnel and hence shortens operation time remarkably and alleviates patient's pains. Now, Liu-POEM has been used by more and more endoscopists in the world.

Pure NOTES: Since Natural Orifice Transluminal Endoscopic Surgery (NOTES) was first described by Anthony Kalloo, It has attracted tremendous interest from surgeons and gastroenterologists all around the world. Natural orifice transluminal endoscopic surgery (NOTES) uses transvisceral access to the peritoneal cavity through the mouth, colon, urinary tract, and/or vagina. Based on the techniques of conventional NOTES, we conducted the hybrid procedures for NOTES, i.e. Pure NOTES. Now, a number of endoscopic approaches can be completed by NOTES and Pure NOTES.

Biography

Bingrong Liu has been elected as the Chairman designated for the Seventh Committee of the Digestive Endoscopy Branch of Henan Medical Association in April of 2017. Bingrong Liu has won the first prize for 8 consecutive times of the New Medical Technology of the Health Department of Heilongjiang province and Harbin Medical University. Bingrong Liu has acquired 9 items of national patents. And some of the patents have been in negotiations for transformation with several companies. Bingrong Liu has published 22 papers in SCI listed journals as the first author and the Impact Factor(IF) is 78.115. At present, Bingrong Liu has been carrying out a series of animal experiments and clinical researches in the endoscopic procedures related to NOTES.

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