

Endosonography

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The third edition of “Endosonography”, updated three years after its last edition reflects the dynamic field of endoscopic ultrasound (EUS), which constantly evolves, responding to the needs of beginners (as learning EUS represents a challenge) and of practicing endosonographers, who become familiar with cutting-edge techniques for therapeutic procedures.

This book integrates scientific data, experts’ knowledge, evidence based-medicine and technical data into clinical gastrointestinal practice in a clear and concise manner. It provides information from the basics of EUS starting from the principle of ultrasound to the clinical practice of diagnostic and therapeutic procedure, meanwhile integrating new techniques such as contrast-enhanced ultrasound, elastography, fusion imaging and new therapeutically approaches such as drainages and EUS-guided anti-tumor therapy.

An on-line version is also available in order to update the printed information offered in this book. The videos are available on the Endosonography Expert Consult website, being constantly renewed (www.expertconsult.com).

This edition brings together 27 chapters gathered into 7 sections: *Basics of EUS, Mediastinum, Stomach, Pancreas and Biliary Tree, Anorectum, EUS-Guided Tissue Acquisition* and *Interventional EUS*.

The first section, *Basics of EUS* includes five chapters dedicated to the principles of ultrasound, equipment, training and simulators, indication, preparation and adverse effects and new techniques in EUS: real-time elastography, contrast-enhanced EUS and fusion imaging.

The next four sections focus each on an anatomical region: the mediastinum, stomach, pancreas and biliary tree and anorectum. The first chapter in these sections, entitled *How to perform EUS*, gives detailed information, images and videos regarding the anatomy, the landmarks and the maneuvers for a complete exploration of these regions for both radial and linear techniques. In each of these sections, specific chapters are dedicated to the disorders that benefit from EUS imaging: staging gastrointestinal cancers, evaluation of subepithelial gastric lesions or pancreatic cysts, assessment of inflammatory diseases of the pancreas or benign bile duct pathology.

The sixth section contains three chapters and describes the EUS-Guided Tissue Acquisition, using both EUS fine needle aspiration and fine needle biopsy, debating the needle choice, the number of passes, the need of suction and the importance of the pathologist as an active component of diagnostic EUS, with a comprehensive discussion regarding factors associated with improved cytological preparation.

The last section describes interventional EUS: drainage of pancreatic fluid collections, of the biliary and pancreatic ductal system, ablation therapy and celiac plexus intervention, drainage of the gallbladder, pelvic abscesses and other therapeutic interventions.

The updated information provided in this book based on experts’ knowledge and evidence-based medicine gives an excellent tool for learning EUS and for improving EUS guided therapeutic procedures.

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