

Preface

Minimally invasive procedures for material procurement, such as fine-needle aspiration (FNA), are important for rapid, cost-effective, and accurate sampling and diagnosis of deep-seated masses. Thus, management of patients with such masses, particularly those with high-risk conditions, has been improved by the use of FNA. Obtaining samples from masses located around the midline such as the mediastinum, including lymph nodes for cancer staging, or small masses located in the wall of the gut is notoriously difficult or impossible by FNA under percutaneous ultrasound (US) guidance. The combination of endoscopic (E) or endorectal (ER) fiberoptic devices and radiological techniques, particularly US, has facilitated the procurement of material from such masses. EUS- and ERUS-guided FNA via transesophageal or transrectal approaches are the techniques of choice to sample such masses.

This book provides a comprehensive review of the EUS-FNA cytology of disease processes of the mediastinum and mediastinal lymph nodes with emphasis on lung and esophageal nodal cancer staging. The EUS-FNA cytology of intramural masses of the esophageal and gastrointestinal tract using a pattern-based diagnostic approach as well as ERUS-FNA cytology of intra- and extramural masses of the colorectum are also covered. Familiarity with the cytomorphology of “contaminating” normal luminal gastrointestinal contents obtained by EUS-FNA is emphasized, as the cytopathologist must be familiar with this pattern not often seen in the material obtained by percutaneous FNA approach. Technical

considerations pertaining to the operator performing the procedure as well as to the cytopathologist, with emphasis on rapid onsite interpretation, are also covered.

In summary, the readers will find this book to be a useful practical guide for the cytological interpretation and differential diagnosis of lesions obtained by EUS-FNA of the mediastinum and gut and ERUS-FNA of the colorectum. All chapters are written by experts with many years of experience in the field of cytology and gastroenterology, and contain the cytology, histopathology, immuno-profile, molecular profile, and US features of the masses described. Numerous cytology and EUS images complement the text.

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Ultrasound-Guided Aspiration

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