

INTERVENTIONAL ENDOSCOPIC ULTRASOUND (EUS)

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Interventional Endoscopic Ultrasound (EUS) has emerged as a pivotal technology in modern gastroenterology, offering unparalleled precision in both diagnostic and therapeutic procedures. This lecture aims to elucidate the latest advancements in interventional EUS techniques and their transformative impact on patient care. EUS combines endoscopy and high-frequency ultrasound to visualize and access structures within and adjacent to the gastrointestinal tract. Recent innovations have expanded its role from mere diagnostic utility to a versatile tool capable of performing a wide array of interventions, including fine-needle aspiration (FNA), cyst drainage, anastomosis creation, and tumor ablation. We will discuss breakthroughs such as advanced tissue acquisition methods, novel stent designs, and enhanced imaging modalities that have significantly improved procedural accuracy and safety. The lecture will highlight case studies demonstrating the efficacy of interventional EUS in managing complex conditions like pancreatic cysts, gastrointestinal malignancies, and biliary diseases. In conclusion, interventional EUS is revolutionizing the landscape of minimally invasive therapies, providing clinicians with enhanced capabilities to diagnose and treat patients with precision and reduced morbidity. Attendees will gain a comprehensive understanding of current trends, practical applications, and future directions in this rapidly evolving field.