

EUS/FNA can be performed instead of follow-up imaging: 1) at detection; or 2) after entry into chart (from Figure 1). In general, EUS/FNA merits stronger consideration for larger or faster-growing cysts relative to smaller or slower-growing cysts.

LEGEND

- 2 Imaging follow-up with contrast-enhanced MRI or pancreas protocol CT.
- 3 Growth defined as 20% increase in longest axis diameter, as depicted on either axial or coronal image. No growth = stable.
- 4 Following growth, imaging follow-up or EUS/FNA may be performed. In general, EUS/FNA merits stronger consideration for larger or faster-growing cysts relative to smaller or slower-growing cysts.

- 5 Definable growth of any cyst 22cm at detection (or at entry from Figure 1) will result in a cyst that is at minimum 2.4cm; for such cysts, EUS/FNA is advised.
- 6 After EUS/FNA, further work-up is result-dependent (see Figure 28).
- 7 If the patient reaches 80 years before the end of follow-up, follow-up should generally stop. If the patient is close to – but not yet – 80 years when the cyst is first detected, then when the patient reaches 80 years, Figure 4 can be used to guide further management.

<sup>\*</sup>Appearance of any mural nodule, wall thickening, dilation of MPD 27mm, or extrahepatic billary obstruction/jaundice should prompt immediate EUS/FNA and surgical evaluation regardless of size or amount of growth.

# **Pancreatic Cyst White Paper**

G. Klöppel, E. Solcia, D.S.
Longnecker, C. Capella, LESLIE Sobin

## Pancreatic Cyst White Paper

Advances in Diagnosis and Therapy of Pancreatic Cystic Neoplasms, An Issue of Gastrointestinal Endoscopy Clinics, E-Book Tamas A Gonda, 2023-05-30 In this issue of Gastrointestinal Endoscopy Clinics of North America guest editor Dr Tamas Gonda brings his considerable expertise to the topic of Advances in Diagnosis and Therapy of Pancreatic Cystic Neoplasms Some estimates predict that over 2% of all patients 65 and older may have a pancreatic cyst and over 5% of those who undergo cross sectional imaging will be found to have a cystic lesion This issue provides an overview of current diagnostic approaches and emerging data on some of the novel imaging and biomarker strategies that improve accuracy Top experts cover current guidelines for diagnosis and surveillance of pancreatic cystic lesions high risk individuals the decision making process and much more Contains 12 practice oriented topics including burden of new pancreatic cyst diagnosis next generation of radiologic assessment for pancreatic cystic neoplasms endoscopic therapy for pancreatic cysts surgical innovation for cystic neoplasms and more Provides in depth clinical reviews on advances in diagnosis and therapy of pancreatic cystic neoplasms offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Cystic Tumors of the Pancreas Marco Del Chiaro, Stephan L. Haas, Richard D. Schulick, 2016-07-14 This book provides a detailed up to date overview of cystic tumors of the pancreas with coverage of all aspects of diagnosis and treatment medical endoscopic and surgical After opening chapters on pathology and classification cytology molecular biology and epidemiology the role of each of the relevant diagnostic methods is carefully examined The treatment related chapters describe surgical approaches including minimally invasive surgery as well as ablation modalities and chemo radiotherapy Thorough guidance is also provided specifically on the management of cystic tumors in high risk cases and on follow up The authors are global opinion leaders in their field who have contributed cutting edge chapters with emphasis on clear diagnostic and therapeutic algorithms and with numerous supporting tables and illustrations Owing to the widespread use of imaging modalities clinicians are being confronted by an increasing number of patients with cystic tumors of the pancreas ranging from benign cysts to metastasized malignancies The widening spectrum of available diagnostic measures has resulted in controversy over the choice of further means of investigation when cystic changes are encountered and the growth in therapeutic options has similarly been accompanied by considerable debate over their use Against this background Cystic Tumors of the Pancreas will be a valuable source of relevant information for both clinicians and surgeons and will also be of interest to radiologists pathologists and basic scientists

Clinical Pancreatology for Practising Gastroenterologists and Surgeons Juan Enrique Dominguez-Munoz, 2021-03-17 Clinical Pancreatology Since the book Clinical Pancreatology for Practising Gastroenterologists and Surgeons was first published sixteen years ago the knowledge and clinical management of pancreatic diseases have developed markedly Thanks to the development of the translational research and the from bench to bedside concept much progress from the lab has been applied to clinical practice In addition several highly relevant clinical trials published over the last years have resulted in the update and optimisation of clinical guidelines A new and validated classification of severity and complications of acute pancreatitis is firmly rooted in clinical practice and has been the basis for the development of minimally invasive approaches to pancreatic necrosis The etiopathogenic knowledge of chronic pancreatitis and other pancreatopaties like that associated with diabetes mellitus has developed significantly Especially important has been the development of the field of cystic pancreatic tumours which has been reflected in the publication of several guidelines and consensus reports over the last few years Most research efforts have focused on pancreatic cancer which have led and will further lead to a significant increase in the therapeutic armamentarium against this devastating disease Finally many newly published studies have changed the concept causes clinical relevance diagnosis and treatment of exocrine pancreatic insufficiency This new edition of Clinical Pancreatology for Practising Gastroenterologists and Surgeons has enjoyed the collaboration of the world's leading experts in each of the areas of clinical pancreatology with the aim of facilitating gastroenterologists surgeons oncologists internists nutritionists diabetologists paediatricians radiologists pathologists and other specialists in their decision making when facing patients with pancreatic diseases in their daily clinical practice All in all this book supplies an indispensable update of the relevant aspects of clinical pancreatology

Textbook of Pancreatic Cancer Kjetil Søreide, Stefan Stättner, 2021-02-04 This textbook provides a practically applicable resource for understanding the surgical oncology management of pancreatic cancer It discusses relevant aspects of anatomy and pathophysiology along with the latest diagnostic techniques Insightful descriptions are then provided detailing how to perform critical surgical procedures when treating these patients Relevant perioperative management strategies and emerging themes in cancer biology critical to understanding and treating the disease are also described The need for cross discipline collaboration to facilitate and enhance innovation within the discipline is reinforced throughout the text Each chapter presents the relevant current clinical standards along with areas of controversy in both research and clinical practice within pearls and pitfalls sections Textbook of Pancreatic Cancer Principles and Practice of Surgical Oncology is a detailed work covering the basic material important to trainees as well as advanced curriculum for established specialists in the field from a multi disciplinary perspective Therefore it is crucial resource for all practicing and trainee professionals who encounter these patients in their day to day clinical practice

Advances in Diagnosis and Therapy of Pancreatic Cystic Neoplasms, An Issue of Gastrointestinal Endoscopy Clinics Tamas A Gonda, 2023-06 In this issue of Gastrointestinal Endoscopy Clinics of North America guest editor Dr Tamas Gonda brings his considerable expertise to the topic of Advances in Diagnosis and Therapy of Pancreatic Cystic Neoplasms Some estimates predict that over 2% of all patients 65 and older may have a pancreatic cyst and over 5% of those who undergo cross sectional imaging will be found to have a cystic lesion This issue provides an overview of current diagnostic approaches and emerging data on some of the novel imaging and biomarker strategies that improve accuracy Top experts cover current guidelines for diagnosis and surveillance of pancreatic cystic lesions high risk individuals the decision making process and much more Contains 12 practice oriented topics including burden of new pancreatic cyst diagnosis next generation of radiologic assessment for pancreatic cystic neoplasms endoscopic therapy for pancreatic cysts surgical innovation for cystic neoplasms and more Provides in depth clinical reviews on advances in diagnosis and therapy of pancreatic cystic neoplasms offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Intraductal Papillary Mucinous Neoplasm of the Pancreas Masao Tanaka, 2013-10-28 Intraductal papillary mucinous neoplasms IPMNs represent an opportunity to treat pancreatic tumors before they develop into aggressive hard to treat cancers Beginning with morphological classification and its clinical significance natural history and malignant change of both main duct and branch duct IPMNs this book covers the whole field of IPMNs of the pancreas It reviews the various methods of investigation imaging diagnostic investigation of cyst fluid and those using pancreatic juice and also examines aspects ranging from the development of malignancy to the timing and method of resection focusing on both main duct and branch duct IPMNs Aimed at residents clinical fellows and pancreatologists who treat patients with this common disease of the pancreas this book is a landmark in the current understanding and future perspectives of IPMNs of the pancreas

Pancreatic Cystic Neoplasms George H. Sakorafas, Vassileios Smyrniotis, Michael Sarr, 2014-12-01 This book provides a thorough overview of the detection of PCNs using modern imaging techniques and a clear guide to the recognition of the different subtypes of PCN based on their radiologic and histopathologic features This volume will serve as an excellent aid to the selection of optimal therapeutic strategies based on preoperative diagnosis A further important feature is the emphasis placed on radiologic clinical and surgical correlations Pancreatic cystic neoplasms PCNs have been increasingly recognized during the past decade mainly because of the widespread use of modern imaging modalities for the investigation of often unrelated abdominal symptoms The three most common subtypes of PCN are serous cystic neoplasms mucinous cystic neoplasms and intraductal papillary mucinous neoplasms These subtypes have distinct radiologic and histopathological features and their biological behavior differs greatly Accurate preoperative diagnosis is of prime importance in selecting the optimal therapeutic strategy while serous cystic neoplasms are almost always benign and may be treated conservatively mucinous cystic neoplasms and intraductal papillary mucinous neoplasms have malignant potential warranting an aggressive surgical approach i e pancreatectomy Pancreatic Cystic Neoplasms will be of great interest to surgeons gastroenterologists radiologists oncologists and pathologists and also to internists and residents in these specialties

The Role of EUS in Pancreatic Cysts Amir Houshang Mohammad,2017 Pancreatic cystic lesions PCLs comprise various pathologically different groups of lesions that usually share many common clinical features Cystic lesions and fluid collections of the pancreas often present a diagnostic and therapeutic challenge Pancreatic cystic lesions are being diagnosed with increasing frequency owing to the widespread use of cross sectional imaging The differential diagnosis for cystic lesions of the pancreas is broad and the role of endoscopic ultrasonography EUS is becoming more clearly defined EUS has become an important tool in the diagnosis and risk stratification of pancreatic cysts The ability of EUS to provide detailed imaging tissue and cyst fluid for analysis makes it a seemingly powerful diagnostic tool for PCLs It can accurately visualize the cyst morphology assess vascular pattern by contrast harmonic scan and perform fine needle aspiration FNA for evaluation of cytology and molecular markers Furthermore several studies have shown the therapeutic applications of endoscopic ultrasound in management of PCLs including EUS guided ablation of cystic pancreatic tumors by injection of alcohol aiding in pancreatic pseudocyst drainage

An Illustrated Guide to Pediatric Surgery Ahmed H. Al-Salem, 2014-09-24 Written in a simple point by point style for ease of use this volume covers all aspects of pediatric surgery with emphasis on important points for diagnosis and management Each chapter covers a topic with emphasis on the most common conditions in neonatal and general pediatric surgery The text is well illustrated with clinical operative radiological and histopathological color figures and illustrations The book also presents some of the rare conditions encountered in pediatric surgery as well as common pediatric urology conditions An Illustrated Guide to Pediatric Surgery is a useful reference to pediatric surgeons specialists fellows and residents as well as general surgeons pediatricians neonatologists medical students and interns interested in pediatric surgery

Pancreatic Tumors in Children G. Bennett Humphrey, Gerald B. Grindey, Louis P. Dehner, Ronald T. Acton, Theodore J. Pysher, 2011-10-26 Where do you begin to look for a recent authoritative article on the diagnosis or management of a particular malignancy. The few general oncology textbooks are generally out of date Single papers in specialized journals are informative but seldom comprehensive these are more often preliminary reports on a very limited number of patients. Certain general journals frequently publish good in depth reviews of cancer topics and pub lished symposium lectures are often the best overviews available. Unfortunately these reviews and supplements appear sporadically and the reader can never be sure when a topic of special interest will be covered. Cancer Treatment and Research is a series of authoritative volumes which aim to meet this need. It is an attempt to establish a critical mass of oncology literature covering virtually all oncology topics revised frequently to keep the coverage up to date easily available on a single library shelf or by a single personal subscription. We have approached the problem in the following fashion First by dividing the oncology literature into specific subdivisions such as lung can cer genitourinary cancer pediatric oncology etc Second by asking eminent authorities in each of these areas to edit a volume on the specific topic on an annual or biannual basis Each topic and tumor type is covered in a volume appearing frequently and predictably discussing current diagnosis staging markers all forms of treatment modalities basic biology and more

WHO Classification of Tumours of Endocrine Organs Ricardo V. Lloyd, Robert Y. Osamura, Günter Klöppel, Juan Rosai, 2017 The WHO Classification of Tumours of Endocrine Organs is the 10th volume in the 4th Edition of the WHO series on histological and genetic typing of human tumours This authoritative concise reference provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies evaluating response to therapy and clinical outcome Diagnostic criteria pathological features and associated genetic alterations are described in a disease oriented manner Sections on all recognized neoplasms and their variants include new ICD O codes epidemiology clinical features pathology genetics prognosis and predictive factors The book prepared by 166 authors from 25 countries contains more than 700 color images and tables and more than 3100 references

**Pancreatic Cancer** Douglas B. Evans,Peter W.T. Pisters,James L. Abruzzese,2006-04-18 The MD Anderson Solid Tumor Oncology series presents cutting edge surgical treatment and medical therapy for specific sites This volume Pancreatic Cancer addresses epidemiology and molecular biology inherited syndromes staging surgical techniques multimodality therapy and emerging therapies The individual chapters focus on narrow specific topics to produce a reference work of value to those interested in pancreatic cancer from a clinical and translational research perspective A must have for surgical oncologists and general surgeons

Genitourinary Radiology N. Reed Dunnick, Jeffrey H. Newhouse, Richard H. Cohan, Katherine E. Maturen, 2017-09-19 Previously known as the Textbook of Uroradiology the newly retitled Genitourinary Radiology continues to bring you top flight expertise in interpreting imaging studies of the genitourinary tract A team of leading authorities walks you through the full range of relevant modalities and findings for each anatomical region providing a multitude of high quality representative images that capture the characteristic appearance of the conditions you re likely to encounter The result remains an indispensable resource for diagnosing genitourinary diseases and disorders

The Papanicolaou Society of Cytopathology System for Reporting Pancreaticobiliary Cytology Martha Bishop Pitman, Lester James Layfield, 2015-05-30 This text and the terminology developed by the Papanicolaou Society of Cytopathology P S C represents an important advance in the field of pancreaticobiliary cytopathology This textbook atlas is designed to present a comprehensive and state of the art approach to the cytologic diagnosis and reporting of pancreaticobiliary lesions Chapters address each of the diagnostic categories defined by the P S C The definition of each category along with the clinical pathologic entities contained within the category are discussed along with specific cytologic criteria for inclusion of a cytologic specimen within the category Each chapter is lavishly illustrated demonstrating diagnostic criteria and examples of lesions contained within the category Additionally appropriate ancillary testing is discussed and where appropriate illustrated Each chapter concludes with a discussion of appropriate management as well as estimates of malignancy risk for the category The Papanicolaou Society of Cytopathology System for Reporting Pancreaticobiliary Cytology Definitions Criteria Ancillary Testing and Management will provide the reader with a unified approach to diagnosing and reporting interpretations of cytologic specimens obtained from the pancreaticobiliary tract This text atlas will serve as a reference guide for pathologists surgeons endoscopists and radiologists

**Emergency Radiology COFFEE Case Book** Bharti Khurana, Jacob Mandell, Asha Sarma, Stephen Ledbetter, 2016-04-07 This book of 85 index cases is organized by clinical presentations that simulate real life radiology practice in the emergency department Companion cases spanning the differential diagnoses and spectrum of disease provide hundreds more examples for a fast focused effective education we like to call COFFEE Case Oriented Fast Focused Effective Education

Clinical Case Studies for the Family Nurse Practitioner Leslie Neal-Boylan, 2011-11-28 Clinical Case Studies for the Family Nurse Practitioner is a key resource for advanced practice nurses and graduate students seeking to test their skills in assessing diagnosing and managing cases in family and primary care Composed of more than 70 cases ranging from common to unique the book compiles years of experience from experts in the field It is organized chronologically presenting cases from neonatal to geriatric care in a standard approach built on the SOAP format This includes differential diagnosis and a series of critical thinking questions ideal for self assessment or classroom use

<u>Tumors of the Pancreas</u> Ralph H. Hruban,Martha Bishop Pitman,David S. Klimstra,2007 In addition to the extensive discussion illustrations and up to date referencing of the numerous pancreatic tumours and tumour like lesions normal gross histologic and cytologic findings and on pancreatic tumour staging are covered These discussions complement the treatment of the issue of frozen section interpretation dissection and reporting of pancreatic resection specimens

**Her-2** Robert Bazell, 2011-04-27 Two years after she underwent a mastectomy and chemotherapy Barbara Bradfield s aggressive breast cancer had recurred and spread to her lungs The outlook was grim Then she took part in Genentech s clinical trials for a new drug Five years later she remains cancer free Her 2 is the biography of Herceptin the drug that provoked dramatic responses in Barbara Bradfield and other women in the trials and that offers promise for hundreds of thousands of breast cancer patients Unlike chemotherapy or radiation Herceptin has no disabling side effects It works by inactivating Her 2 neu a protein that makes cancer cells grow especially quickly produced by a gene found in 25 to 30 percent of all breast tumors Herceptin caused some patients cancers to disappear completely in others it slowed the progression of the disease and gave the women months or years they wouldn t otherwise have had Herceptin is the first treatment targeted at a gene defect that gives rise to cancer It marks the beginning of a new era of treatment for all kinds of cancers Robert Bazell presents a riveting account of how Herceptin was born Her 2 is a story of dramatic discoveries and strong personalities showing the combination of scientific investigation money politics ego corporate decisions patient activism and luck involved in moving this groundbreaking drug from the lab to a patient s bedside Bazell s deft portraits introduce us to the remarkable people instrumental in Herceptin s history including Dr Dennis Slamon the driven UCLA oncologist who played the primary role in developing the treatment Lily Tartikoff wife of television executive Brandon Tartikoff who tapped into Hollywood money and glamour to help fund Slamon s research and Marti Nelson who inspired the activists who lobbied for a compassionate use program that would allow women outside the clinical trials to have access to the limited supplies of Herceptin prior to FDA approval of the drug And throughout there are the stories of the heroic women with advanced breast cancer who volunteered for the trials risking what time they had left on an unproven treatment Meticulously researched written with clarity and compassion Her 2 is masterly reporting on cutting edge science

Geriatric Gastroenterology C. S. Pitchumoni,T. Dharmarajan,2012-07-26 As aging trends in the United States and Europe in particular are strongly suggestive of increasingly older society it would be prudent for health care providers to better prepare for such changes By including physiology disease nutrition pharmacology pathology radiology and other relevant associated topics Geriatric Gastroenterology fills the void in the literature for a volume devoted specifically to gastrointestinal illness in the elderly This unique volume includes provision of training for current and future generations of physicians to deal with the health problems of older adults It will also serve as a comprehensive guide to practicing physicians for ease of reference Relevant to the geriatric age group the volume covers epidemiology physiology of aging gastrointestinal physiology pharmacology radiology pathology motility disorders luminal disorders hepato biliary disease systemic manifestations neoplastic disorders gastrointestinal bleeding cancer and medication related interactions and adverse events all extremely common in older adults these are often hard to evaluate and judge especially considering the complex aging physiology All have become important components of modern medicine Special emphasis is be given to nutrition and related disorders Capsule endoscopy and its utility in the geriatric population is also covered Presented in simple easy to read style the volume includes numerous tables figures and key points enabling ease of understanding Chapters on imaging and pathology are profusely illustrated All chapters are written by specialists and include up to date scientific information Geriatric Gastroenterology is of great utility to residents in internal medicine fellows in gastroenterology and geriatric medicine as well as gastroenterologists geriatricians and practicing physicians including primary care physicians caring for older adults

**Histological Typing of Tumours of the Exocrine Pancreas** G. Klöppel, E. Solcia, D.S. Longnecker, C. Capella, LESLIE Sobin, 2012-12-06 In Collaboration with Pathologists in 7 Countries

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