

What Diseases Can Be Detected By An Endoscopy

Colonoscopy : Progress Report. fibercolonoscope and its application to colonic diseases". Fiberendoscopy Colonoscopy () or coloscopy () is a medical procedure involving the endoscopic examination of the large bowel (colon) and the distal portion of the small bowel. Endoscopy, Cited in Classen, M. 2nd World Congress of Gastroint. This examination is performed using either a CCD camera or a fiber optic camera, which is mounted on a flexible tube and passed through the anus c75d74d1a4

The importance of refluxed gastric contents in the pathogenesis of GERD was emphasized by Winkelstein who introduced the term "peptic esophagitis" and by Bernstein and Baker who reported the symptom of heartburn following instillation of hydrochloric acid in the distal esophagus in what then became known as the acid

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perfusion test. Formal measurement of acid in the esophagus was first described in 1960 by Tuttle. He used a glass pH probe to map the gastroesophageal pH gradient, and demonstrated a sharp gradient in normal subjects and a gradual, sloping gradient in patients with esophagitis. Four years later, Miller used an indwelling esophageal pH electrode to continuously measure esophageal and gastric pH for a period up to 12 hours. This technique... c75d74d1a4 == Definition and symptoms == c75d74d1a4 Endoscopy and esophageal pH monitoring can be used to evaluate heartburn. Some causes of heartburn, such as GERD, may be diagnosed based on symptoms alone. Potential differential diagnoses for heartburn include motility disorders, ulcers, inflammation of the esophagus, and medication side effects. Lifestyle changes, such as losing weight and avoiding fatty foods, can improve heartburn. Over-the-counter alginates or antacids can help with mild or occasional heartburn. Heartburn treatment primarily involves antisecretory medications like H2 receptor antagonists (H2RAs) and proton-pump inhibitors (PPIs). c75d74d1a4 Treatment options include lifestyle changes, medications,... c75d74d1a4 Routine use of colonoscopy screening varies globally. In the US, colonoscopy is a commonly recommended and widely utilized screening method for colorectal cancer, often beginning at age 45 or 50, depending on risk factors and guidelines from organizations like the American Cancer Society. However, in the

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European Union, several countries primarily employ... Although the precise causes of Crohn's disease are unknown, it is believed to be caused by a combination of environmental, immune, and bacterial factors in genetically susceptible individuals. It results in a chronic inflammatory disorder, in which the body's immune system defends the gastrointestinal tract, possibly targeting microbial antigens. Although Crohn's is an immune-related disease, it does not seem to be an autoimmune disease (the immune system is not triggered by the body itself). The exact underlying immune problem is not clear, though it may be immunodeficiency.... The purpose of a colonoscopy is to inspect the internal lining of the colon wall, to detect ulceration or precancerous polyps, and to permit biopsy or removal of suspected colorectal cancer lesions.

Barrett's esophagus This change is considered to be a premalignant condition because of its potential to transition into esophageal adenocarcinoma, an often-deadly cancer. The cells change from stratified squamous epithelium to simple columnar epithelium, interspersed with goblet cells that are normally only found in the small intestine and large intestine. exposure caused by reflux from the stomach. Barrett's esophagus is diagnosed by endoscopy to visually observe the lower esophagus, followed by a biopsy

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of Barrett's esophagus is a condition in which there is an abnormal (metaplastic) change in the mucosal cells that line the lower part of the esophagus c75d74d1a4

Upper gastrointestinal series This in combination with other plain radiographs allows for the imaging of parts of the upper gastrointestinal tract such as the pharynx, larynx, esophagus, stomach, and small intestine such that the inside wall lining, size, shape, contour, and patency are visible to the examiner. particular diseases manifesting mucosal abnormalities such as coeliac and Crohn's disease. Depending on the organs to be examined, barium radiographs can be classified into "barium swallow", "barium meal", "barium follow-through", and "enteroclysis" ("small bowel enema"). The barium enhances the visibility of the relevant parts of the gastrointestinal tract by coating the inside wall of the tract and appearing white on the film. With fluoroscopy, it is also possible to visualize the functional movement of examined organs such as swallowing, peristalsis, or sphincter closure. To further enhance the quality. A contrast medium, usually a radiocontrast agent such as barium sulfate mixed with water, is ingested or instilled into the gastrointestinal tract, and X-rays are used to create radiographs of the regions of interest. Barium swallow studies are better than endoscopy at demonstrating An upper gastrointestinal series, also called a barium

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swallow, barium study, or barium meal, is a series of radiographs used to examine the gastrointestinal tract for abnormalities c75d74d1a4

Gastrointestinal bleeding and inflammatory bowel disease among others. Sometimes in those with small amounts of bleeding no symptoms may be present. Endoscopy of the lower and upper gastrointestinal Gastrointestinal bleeding (GI bleed), also called gastrointestinal hemorrhage (GIB), is all forms of bleeding in the gastrointestinal tract, from the mouth to the rectum. Small amounts of bleeding may be detected by fecal occult blood test. Small amounts of bleeding over a long time may cause iron-deficiency anemia resulting in feeling tired or heart-related chest pain. Other symptoms may include abdominal pain, shortness of breath, pale skin, or passing out. When there is significant blood loss over a short time, symptoms may include vomiting red blood, vomiting black blood, bloody stool, or black stool c75d74d1a4

Colonoscopy surveys the entire colon, which runs 120 to 150 cm (4–5 ft). Sigmoidoscopy is similar, but only surveys the sigmoid colon, which comprises 60 cm of the distal (left) side of the colon. The benefits of colonoscopy for cancer survival have primarily been associated with the detection of lesions in the distal portion of the colon. c75d74d1a4

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Coeliac disease Capsule endoscopy (CE) allows identification of typical mucosal changes observed in coeliac disease and may be used as an alternative to endoscopy in those Coeliac disease (Commonwealth English) or celiac disease (American English) is a chronic autoimmune disease, mainly affecting the small intestine. Coeliac disease causes a wide range of symptoms and complications that can affect multiple organs outside the gastrointestinal tract. It is caused by an abnormal immune system response to gluten, a protein found in wheat and other grains such as barley and rye c75d74d1a4

The classic form of the disease can affect any age group, but is usually diagnosed in early childhood and causes symptoms of malabsorption such as weight loss, diarrhoea, and stunted growth. Non-classic coeliac disease is more commonly seen in adults, characterised by vague abdominal symptoms and complications in organs outside the gastrointestinal tract, such as bone disease, anaemia, and other consequences of nutritional deficiencies. In people with a genetic predisposition to the condition, eating gluten causes inflammation in the small intestine, damaging its lining and leading to malabsorption. The development of coeliac disease is believed to be influenced by other environmental factors, such as infections. c75d74d1a4

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Esophageal pH monitoring et al. It can also be used in diagnosing laryngopharyngeal reflux. ". 63 (10): 933-6 In gastroenterology, esophageal pH monitoring is the current gold standard for diagnosis of gastroesophageal reflux disease (GERD). "Can the combination of symptoms and endoscopy confirm the presence of gastroesophageal reflux disease. Am Surg. (October 1997). It provides direct physiologic measurement of acid in the esophagus and is the most objective method to document reflux disease, assess the severity of the disease and monitor the response of the disease to medical or surgical treatment c75d74d1a4

== Signs and symptoms == c75d74d1a4

Inflammatory bowel disease World Journal of Gastrointestinal Endoscopy. i4. 4253/wjge. 4 (4): 108-116. Crohn's disease affects the small intestine and large intestine, as well as the mouth, esophagus, stomach and the anus, whereas UC primarily affects the colon and the rectum. v4. doi:10. surveillance in patients with inflammatory bowel disease: What is new. ". 108 Inflammatory bowel disease (IBD) is a group of inflammatory conditions of the colon and small intestine, with Crohn's disease and ulcerative colitis (UC) being the principal types c75d74d1a4

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Diagnosis is based on symptoms, blood tests, and biopsies of the small... c75d74d1a4 The main cause of Barrett's esophagus is tissue adaptation to chronic acid exposure caused by reflux from the stomach. Barrett's esophagus is diagnosed by endoscopy to visually observe the lower esophagus, followed by a biopsy of the affected area and microscopic examination of that tissue. The cells of Barrett's esophagus are classified into four categories: nondysplastic, low-grade dysplasia, high-grade dysplasia, and carcinoma. High-grade dysplasia and early stages of adenocarcinoma may be treated by endoscopic resection or radiofrequency ablation. Later stages of adenocarcinoma may be treated with surgical resection or palliation. Those with nondysplastic or low-grade dysplasia are managed by yearly... c75d74d1a4 Bleeding is typically divided into two main types: upper gastrointestinal bleeding and lower gastrointestinal bleeding. Causes of upper GI bleeds include: peptic ulcer disease, esophageal varices due to liver cirrhosis and cancer, among others. Causes of lower GI bleeds include: hemorrhoids, cancer, and inflammatory bowel disease among others. Small amounts of bleeding may be detected by fecal occult blood test. Endoscopy of the lower and upper gastrointestinal tract may locate the area of bleeding. Medical imaging may be useful in cases that are not clear. Bleeding may also... c75d74d1a4 Risk factors include obesity, pregnancy, smoking, hiatal hernia, and taking certain medications. Medications that may cause or

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worsen the disease include benzodiazepines, calcium channel blockers, tricyclic antidepressants, NSAIDs, and certain asthma medicines. Acid reflux is due to poor closure of the lower esophageal sphincter, which is at the junction between the stomach and the esophagus. Diagnosis among those who do not improve with simpler measures may involve gastroscopy, upper GI series, esophageal pH monitoring, or esophageal manometry. c75d74d1a4

Heartburn Heartburn affects 25% of the population at least once a month. It is a symptom that is commonly linked to acid reflux and is often triggered by food. Endoscopy and esophageal pH monitoring can be used to evaluate heartburn. Causes include acid reflux, gastroesophageal reflux disease (GERD), damage to the esophageal lining, bile acid, mechanical stimulation to the esophagus, and esophageal hypersensitivity. Lying down, bending, lifting, and performing certain exercises can exacerbate heartburn. Some causes of heartburn, such as GERD, may be diagnosed based Heartburn is a burning sensation felt behind the breastbone. once a month c75d74d1a4

Crohn's disease PMID 35898151 Crohn's disease (CD) is a type of inflammatory bowel

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disease (IBD) that may affect any segment of the gastrointestinal tract. PMC 9329643. 224. Clinical Endoscopy. Bowel obstruction may occur as a complication of chronic inflammation, and those with the disease are at much greater risk of colorectal cancer and small bowel cancer. 5946/ce. 55 (4): 532-539. The skin rashes may be due to infections, as well as pyoderma gangrenosum or erythema nodosum. Symptoms often include abdominal pain, diarrhea, fever, abdominal distension, and weight loss. for the detection and differential diagnosis of intestinal diseases". doi:10. Complications outside of the gastrointestinal tract may include anemia, skin rashes, arthritis, inflammation of the eye, and fatigue. 2021 c75d74d1a4

Gastroesophageal reflux disease In the long term, and when not treated, complications such as esophagitis, esophageal stricture, and Barrett's esophagus may arise. stool (detected chemically), wheezing, weight loss, or voice changes. Symptoms include dental corrosion, dysphagia, heartburn, odynophagia, regurgitation, non-cardiac chest pain, extraesophageal symptoms such as chronic cough, hoarseness, reflux-induced laryngitis, or asthma. Some physicians advocate either once-in-a-lifetime or 5- to 10-yearly endoscopy for Gastroesophageal reflux disease (GERD) or gastro-oesophageal reflux disease (GORD) is a chronic upper gastrointestinal disease in which stomach

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content persistently and regularly flows up into the esophagus, resulting in symptoms and/or complications c75d74d1a4

== Background == c75d74d1a4

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