

# Chest Radiology The Essentials

## Essentials Series

CAD also has potential future applications in digital pathology with the advent of whole-slide imaging and machine learning algorithms. So far its application has been limited to quantifying immunostaining but is also being... ca85c76efb

Hounsfield scale (2011). ISBN 9780781775540. Lippincott Williams & Wilkins. W. (2001). Essentials of Radiologic Science. It is frequently used in CT scans, where its value is also termed CT number. p. 263. Radiology of the Chest and Related The Hounsfield scale ( HOWNZ-feeld), named after Sir Godfrey Hounsfield, is a quantitative scale for describing radiodensity. Wright, F ca85c76efb

A pulmonary contusion is usually caused directly by blunt trauma but can also result from explosion injuries or a shock wave associated with penetrating trauma. With the use of explosives during World Wars I and II, pulmonary contusion resulting from blasts gained recognition. In the 1960s its occurrence in civilians began to receive wider recognition, in which... ca85c76efb

Gorham's disease Involvement of the spine and skull Gorham's disease (pronounced GOR-amz), also known as Gorham vanishing bone disease and phantom bone disease, is a very rare skeletal condition of unknown cause. cases involving the chest and upper spine, prove fatal. Recurrence of the disease following remission can also occur. It is characterized by the uncontrolled proliferation of distended, thin-walled vascular or lymphatic channels within bone, which leads to resorption and replacement of bone with angiomas and/or fibrosis ca85c76efb

Born in Kayseri, Kassabian studied in London and Philadelphia before serving in the United States Army Hospital Corps during the Spanish-American War. After the war, he finished medical school at the Medico-Chirurgical College and became an instructor there. He invented a positioning device that displayed the ribs as round rather than flat on X-ray images. Kassabian had... ca85c76efb Diatrizoate was approved for medical use in the United States in 1954. It is on the World Health Organization's List of Essential Medicines. ca85c76efb X-rays were discovered in 1895 by the German scientist Wilhelm Conrad Röntgen, who named it X-radiation to signify an unknown type of radiation. ca85c76efb

X-ray Essentials of Dental Radiography and Radiology. Elsevier An X-ray (also known in many languages as Röntgen radiation) is a form of high-energy electromagnetic radiation with a wavelength shorter than those of ultraviolet rays and longer than those of gamma rays. from the original (PDF) on 23 April 2009. Retrieved 19 February 2016. Roughly, X-rays have a wavelength ranging from 10 nanometers to 10 picometers, corresponding to frequencies in the range of 30 petahertz to 30 exahertz ( $3 \times 10^{16}$  Hz to  $3 \times 10^{19}$  Hz) and photon energies in the range of 100 eV to 100 keV, respectively. Whaites E, Cawson R (2002) ca85c76efb

Pectus excavatum meaning hollowed chest. The hallmark of the condition is a sunken Pectus excavatum is a structural deformity of the anterior thoracic wall in which the sternum and rib cage are shaped abnormally. It is sometimes referred to as sunken chest syndrome, cobbler's chest or funnel chest. This produces a caved-in or sunken appearance of the chest. It can either be present at birth or develop after puberty

The act of performing surgery may be called a surgical procedure or surgical operation, or simply "surgery" or "operation". In this context, the verb "operate" means to perform surgery. The adjective surgical means pertaining to surgery; e.g. surgical instruments, surgical facility or surgical nurse. Most surgical procedures are performed by a pair of operators: a surgeon who is the main operator performing...

CT scan CT scanners use a A computed tomography scan (CT scan), formerly called computed axial tomography scan (CAT scan), is a medical imaging technique used to obtain detailed internal images of the body. The personnel that perform CT scans are called radiographers or radiology technologists. obtain detailed internal images of the body. The personnel that perform CT scans are called radiographers or radiology technologists

Since its development in the 1970s...

Pulmonary contusion contused lungs improves for years after the injury. The excess fluid interferes with gas exchange, potentially leading to inadequate oxygen levels (hypoxia). Lippincott Williams & Wilkins. p. As a result of damage to capillaries, blood and other fluids accumulate in the lung tissue. Collins J, Stern EJ (2007). Chest Radiology: The Essentials. Unlike a pulmonary laceration, another type of lung injury, a pulmonary contusion does not involve a cut or tear of the lung tissue. 120 A pulmonary contusion, also known as a lung contusion, is a bruise of the lung, caused by chest trauma

Mihran Kassabian He became director of the Roentgen Ray Laboratory at Philadelphia General Hospital and vice president of both the American Roentgen Ray Society (ARRS) and the American Electro-Therapeutic Association. Kassabian's Mihran Krikor Kassabian (August 25, 1870 – July 14, 1910) was an Armenian-American physician, one of the early investigators into the medical uses of X-rays, and a faculty member at the Medico-Chirurgical College of Philadelphia. represented the American Medical Association at international conventions, and in 1907 he wrote an influential textbook on electrotherapeutics and radiology

CT scanners use a rotating X-ray tube and a row of detectors placed in a gantry to measure X-ray attenuations by different tissues inside the body. The multiple X-ray measurements taken from different angles are then processed on a computer using tomographic reconstruction algorithms to produce tomographic (cross-sectional) images (virtual "slices") of a body. CT scans can be used in patients with metallic implants or pacemakers, for whom magnetic resonance imaging (MRI) is contraindicated.

Diatrizoate (2018). ). "Introduction to contrast media"; ISBN 9780702071669 Diatrizoate, also known as amidotrizoate,

Gastrografen, is a contrast agent used during X-ray imaging. Chapman & Nakielny's Guide to Radiological procedures (7th ed. London: Elsevier. p. It is given by mouth, injection into a vein, injection into the bladder, through a nasogastric tube, or rectally. This includes visualizing veins, the urinary system, spleen, and joints, as well as computer tomography (CT scan). 44, 49, 69

Surgery, trauma, disease, injury, malignancy), to alter bodily functions (e. 10 (3). g., malabsorption created by bariatric surgery such as gastric bypass), to reconstruct or alter aesthetics and appearance (cosmetic surgery), or to remove unwanted tissues, neoplasms, or foreign bodies. Journal of the American College of Radiology. g. National Guideline Surgery is a medical specialty that uses manual and instrumental techniques to diagnose or treat pathological conditions (e. appropriateness criteria routine chest radiographs in intensive care unit patients

Computer-aided diagnosis CAD is an interdisciplinary technology combining elements of artificial intelligence and computer vision with radiological and Computer-aided detection (CADE), also called computer-aided diagnosis (CADx), are systems that assist doctors in the interpretation of medical images. Imaging techniques in X-ray, MRI, endoscopy, and ultrasound diagnostics yield a great deal of information that the radiologist or other medical professional has to analyze and evaluate comprehensively in a short time. for the standard H&E stain. CAD systems process digital images or videos for typical appearances and to highlight conspicuous sections, such as possible diseases, in order to offer input to support a decision taken by the professional

People with the condition may experience severe negative psychosocial effects and avoid activities that expose the chest. Relatively common side effects include vomiting, diarrhea, and skin redness. Other side effects include itchiness, kidney problems, low blood pressure, and allergic reactions. It is not recommended in people who have an iodine allergy. Diatrizoate is an iodinated ionic radiocontrast agent with high osmolality. Pectus excavatum can impair cardiac and respiratory function and cause pain in the chest and back. X-rays can penetrate many solid substances such as construction materials and living tissue, so X-ray radiography is widely used in medical diagnostics (e.g., checking for broken bones) and materials science...

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