

Diagnostic Thoracic Imaging

TOS may result from trauma, repetitive arm movements, tumors, pregnancy, or anatomical variations such as a cervical rib. The diagnosis may be supported by nerve conduction studies and medical imaging. TOS is...
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Magnetic resonance imaging
MRI does not involve X-rays or the use of ionizing radiation, which distinguishes it from computed tomography (CT) and positron emission tomography (PET) scans. MRI is a medical application of nuclear magnetic resonance (NMR) which can also be used for imaging in other NMR applications, such as NMR spectroscopy. Magnetic

resonance imaging (MRI) is a medical imaging technique used in radiology to generate pictures of the anatomy and the physiological processes inside Magnetic resonance imaging (MRI) is a medical imaging technique used in radiology to generate pictures of the anatomy and the physiological processes inside the body. MRI scanners use strong magnetic fields, magnetic field gradients, and radio waves to form images of the organs in the body
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Thoracic aortic aneurysm with thoracic aortic aneurysm or dissection should have aortic imaging to identify asymptomatic disease. People with symptoms suggestive of thoracic aortic A thoracic aortic aneurysm is an aortic aneurysm that presents primarily in the thorax
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Aortic dissection Aortic dissection can quickly lead to

death from insufficient blood flow to the heart or complete rupture of the aorta. In most cases, this is associated with a sudden onset of agonizing chest or back pain, often described as "tearing" in character. the diagnosis is made by visualization of the intimal flap on a diagnostic imaging test. Common tests used to diagnose an aortic dissection include a

Aortic dissection (AD) occurs when an injury to the innermost layer of the aorta allows blood to flow between the layers of the aortic wall, forcing the layers apart. Damage to other organs may result from the decreased blood supply, such as stroke, lower extremity ischemia, or mesenteric ischemia. Vomiting, sweating, and lightheadedness may also occur 0da9e808d2

Lateral thoracic artery duplicated lateral thoracic arteries have been reported in medical literature. These variations can impact surgical procedures and diagnostic

imaging interpretations In the human body, the lateral thoracic artery (or external mammary artery) is a blood vessel that supplies oxygenated blood to approximately one-third of the lateral structures of the thorax and breast 0da9e808d2

It evaluates many heart conditions, such as coronary artery disease (CAD), hypertrophic cardiomyopathy and heart wall motion abnormalities. It can also detect regions of myocardial infarction by showing areas of decreased resting perfusion. The function of the myocardium is also evaluated by calculating the left ventricular ejection fraction (LVEF) of the heart. This scan is done in conjunction with a cardiac stress test. The diagnostic information is generated by provoking controlled regional ischemia in the heart with variable perfusion. 0da9e808d2 It anastomoses with the internal thoracic artery, subscapular, and intercostal

arteries, and with the pectoral branch of the thoracoacromial artery. In the female it supplies an external mammary branch which turns round the free edge of the pectoralis major and supplies the breasts.

The term diaphragm in anatomy, created by Gerard of Cremona, can refer to other flat structures such as the urogenital diaphragm or pelvic...

Planar techniques, such as conventional scintigraphy, are rarely used.

Rather, single... It originates from the axillary artery and follows the lower border of the pectoralis minor muscle to the side of the chest to supply the serratus anterior muscle, pectoralis major muscle and pectoralis minor muscle, and sends branches across the axilla to the axillary lymph nodes and subscapularis muscle.

Lumbar provocative discography
It is usually reserved for persons

with persistent, severe low back pain (LBP) who have abnormal spaces between vertebrae on magnetic resonance imaging (MRI), where other diagnostic tests have failed to reveal clear confirmation of a suspected disc as the source of pain, and surgical intervention is being considered. abnormal spaces between vertebrae on magnetic resonance imaging (MRI), where other diagnostic tests have failed to reveal clear confirmation of a suspected Lumbar provocative discography (also referred to as "discography" or discogram) is an invasive diagnostic procedure for evaluation for intervertebral disc pathology 0da9e808d2

Radiographs can be taken after injection of a radiopaque contrast medium into small lymphatic vessels (these are made visible by prior subcutaneous injection of patent blue dye). The resulting lymphogram is used to find the locations of large vessels and nodes, and to identify sites of

blockage in lymphatic drainage.
The cause is classically a head-on motor vehicle collision in which the affected person is wearing only a lap belt. Being hit in the abdomen with an object like a tree or a fall may also result in this fracture pattern. It often involves disruption of all three columns of the vertebral body (anterior, middle, and posterior). The most common area affected is the lower thoracic and upper lumbar...

Thoracic diaphragm 'partition'), is a sheet of internal skeletal muscle in humans and other mammals that extends across the bottom of the thoracic cavity. 'partition'), is a sheet of internal The thoracic diaphragm, or simply the diaphragm (; Ancient Greek: διάφραγμα, romanized: diáphragma, lit. The diaphragm is the most important muscle of respiration, and separates the thoracic cavity, containing the

heart and lungs, from the abdominal cavity: as the diaphragm contracts, the volume of the thoracic cavity increases, creating a negative pressure there, which draws air into the lungs. The thoracic diaphragm, or simply the diaphragm (/ˈdaɪəfræm/; Ancient Greek: διάφραγμα, romanized: diáphragma, lit. Its high oxygen consumption is noted by the many mitochondria and capillaries present; more than in any other skeletal muscle

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Chance fracture A CT scan is recommended as part of the diagnostic work-up to detect any potential abdominal A Chance fracture is a type of vertebral fracture that results from excessive flexion of the spine. Symptoms may include abdominal bruising (seat belt sign), or less commonly paralysis of the legs. Injury to the bowel may not be apparent on the first day. In around half of cases there

is an associated abdominal injury such as a splenic rupture, small bowel injury, pancreatic injury, or mesenteric tear. common area affected is the lower thoracic and upper lumbar spine 0da9e808d2

Lymph nodes can also be detected... 0da9e808d2

Lymphogram The x-ray film or image of the lymphatic vessels and lymph nodes is called a lymphogram or a lymphangiogram. ed. (2018-01-01), "Thoracic Duct Embolization", Diagnostic Imaging: Interventional Procedures (Second Edition), Diagnostic Imaging, Elsevier, pp. 298-301 Lymphography is a medical imaging technique in which a radiocontrast agent is injected, and then an X-ray picture is taken to visualise structures of the lymphatic system, including lymph nodes, lymph ducts, lymphatic tissues, lymph capillaries and lymph vessels.

Lymphangiography is the same procedure, used only to visualize the lymph vessels 0da9e808d2

Thoracic outlet syndrome There are three main types: neurogenic, venous, and arterial. The neurogenic type is the most common and presents with pain, weakness, paraesthesia, and occasionally loss of muscle at the base of the thumb. The arterial type results in pain, coldness, and pallor of the arm. Thoracic outlet syndrome (TOS) is a condition in which there is compression of the nerves, arteries, or veins in the superior thoracic aperture, the passageway Thoracic outlet syndrome (TOS) is a condition in which there is compression of the nerves, arteries, or veins in the superior thoracic aperture, the passageway from the lower neck to the armpit, also known as the thoracic outlet. The venous type results in swelling, pain, and possibly a bluish coloration of the arm 0da9e808d2

MRI is widely used in hospitals and clinics for medical diagnosis, staging and follow-up of disease. Compared to CT, MRI provides better contrast in images of soft tissues, e.g. in the brain or...

0da9e808d2 A thoracic aortic aneurysm is the "ballooning" of the upper aspect of the aorta, above the diaphragm. Untreated or unrecognized they can be fatal due to dissection or "popping" of the aneurysm leading to nearly instant death. Thoracic aneurysms are less common than an abdominal aortic aneurysm. However, a syphilitic aneurysm is more likely to be a thoracic aortic aneurysm than an abdominal aortic aneurysm. This condition is commonly treated via a specialized multidisciplinary approach with both vascular surgeons and cardiac surgeons. 0da9e808d2

Myocardial perfusion imaging increasingly used for myocardial perfusion imaging (MPI). Recent guidelines states that PET is the

preferred functional imaging test in patients with chronic coronary Myocardial perfusion imaging or scanning (also referred to as MPI or MPS) is a nuclear medicine procedure that illustrates the function of the heart muscle (myocardium) 0da9e808d2

AD is more common in those with a history of high blood pressure; a number of connective tissue diseases that affect blood vessel wall strength including Marfan syndrome and Ehlers-Danlos syndrome... 0da9e808d2

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