

What Is The Function Of The Spleen

Crosby was born on December 1, 1914, in Wheeling, West Virginia. Six months later, the family moved to Oil City, Pennsylvania. His father was an architect. His mother, Frances Irene Forrester, was a schoolteacher. Crosby was drawn toward medicine at an early age, attaching himself at age 12 to volunteer physicians who worked at the Boy scout camp he attended. In high school he discovered his love of literature from his sophomore English teacher, Dorothy Mann. Crosby attended University of Pennsylvania under a scholarship awarded to him by the Pennsylvania legislature. During this time, he began his life in research as a volunteer in the local hospital hematology lab.

The body in traditional Chinese medicine Thus, the TCM Spleen is not a specific piece of flesh, but an aspect of function related to transformation The model of the body in traditional Chinese medicine (TCM) has the following elements: traditional Chinese model is concerned with function

the Fundamental Substances; Early life == TRP subfamily == Consequences == Title Inflammation of the pancreas is known as pancreatitis; common causes include chronic alcohol use and gallstones. Because of its role in the regulation of blood sugar, the pancreas is also a key organ in diabetes. Pancreatic cancer can arise following chronic pancreatitis or due to other...

Spleen Similar in structure to a large lymph node, it acts primarily as a blood filter. from Ancient Greek σπλήν, splén), or milt, is an organ found in almost all vertebrates. The spleen (from Anglo-Norman espleen; ult. from Ancient Greek σπλήν, splén), or milt, is an organ found in almost all vertebrates. Similar in structure The spleen (from Anglo-Norman espleen; ult

Chinese medicine and the model of the body is founded on the balance of the five elements: Earth, Metal, Water, Wood, and Fire. The elements are infinitely linked, consuming and influencing each other. Each element corresponds to different organs in the body. The organs act as representatives of the qualities of... The traditional Chinese model is concerned with function. Thus, the TCM Spleen is not a specific piece of flesh, but an aspect of function related to transformation and transportation within the body, and of the mental functions of thinking and studying. Indeed, the San Jiao or Triple Burner has no anatomical correspondent at all, and is said to be completely a functional entity. A procedure in which blood is taken from a patient's circulation to have a process applied to it before it is returned to the circulation. All of the apparatuses carrying the blood outside the body are collectively termed the extracorporeal circuit.

Lymphatic system The main functions of the spleen are: to produce The lymphatic system, or lymphoid system, is an organ system in vertebrates that is part of the immune system and complementary to the circulatory system. The Latin word for lymph, lymph, refers to the deity of fresh water, "Lympha". It consists of a large network of lymphatic vessels, lymph nodes, lymphoid organs, lymphatic tissue and lymph. recirculate between the blood and the secondary lymphoid organs until they encounter their specific antigen

Pancreas This juice contains bicarbonate, which neutralizes acid entering the duodenum from the stomach, and digestive enzymes which break down carbohydrates, proteins, and fats in food entering the duodenum from the stomach. Ninety-nine percent of the pancreas is exocrine and one percent is endocrine. In humans, it is located in the abdomen behind the stomach and functions as a gland. e. The pancreas narrows towards the tail of the pancreas, which sits near the spleen. , it has both an endocrine and a digestive exocrine function. It is usually between The pancreas (plural pancreases, or pancreata) is an organ of the digestive system and endocrine system of vertebrates. As a part of the digestive system, it functions as an exocrine gland secreting pancreatic juice into the duodenum through the pancreatic duct. The pancreas is a mixed or heterocrine gland, i. In front of the pancreas sits the transverse colon. As an endocrine gland, it functions mostly to regulate blood sugar levels, secreting the hormones insulin, glucagon, somatostatin and pancreatic polypeptide

Unlike the circulatory system, which is a closed system, the lymphatic system is open. Lymph originates in the interstitial fluid that leaks from blood in the circulatory system into the tissues of the body. This fluid carries nutrients to the cells and collects waste products, bacteria, and damaged cells, before draining into the lymphatic vessels as lymph. The circulatory system processes an average of 20 litres (5.3 US gal) of blood per day through capillary filtration, which removes plasma from the blood. Roughly 17 litres (4.5 US gal) of the filtered blood is reabsorbed directly into the blood vessels, while the remaining 3 litres (0.79 US gal) are left in the interstitial fluid. The lymphatic system provides an accessory return route to the blood for this remainder. Qi, (Energy), Jing (Essence), Shen (Spirit) that nourish and protect the Zang-Fu organs;

William Holmes Crosby Jr. (December 1, 1914 – January 15, 2005) was an American soldier, translator and physician. Blood. In addition he was an inventor and published translator of poetry. He published more the 450 peer-reviewed papers in the field, as well as those of oncology, gastroenterology, iron metabolism, nutrition and general medical practice. 1961 Jun;17:767-74. 1963;14:349-70 Intestinal Mucosal Mechanisms Controlling William Holmes Crosby Jr. He is considered by many to be one of the founding fathers of modern hematology. Annu Rev Med. Hyposplenism: an inquiry into normal functions of the spleen

and the meridians (jing-luo) which connect and unify the body. The English title Canon of Medicine is derived from the common medieval Latin Canon Medicinae, itself a translation of the

original Arabic القانون في الطب (al-Qānūn fī aṭ-Ṭibb... 0aa3c17aed Every diagnosis is a "Pattern of disharmony" that affects one or more organs, such as "Spleen Qi Deficiency" or "Liver Fire Blazing" or "Invasion of the Stomach by Cold", and every treatment is centered on correcting the disharmony. 0aa3c17aed

The Canon of Medicine In the spleen, it is used to clean the body of waste products and The Canon of Medicine (Arabic: القانون في الطب, romanized: al-Qānūn fī l-ṭibb) is an encyclopedia of medicine in five books compiled by Ibn Sina (ابن سينا, Avicenna) and completed in 1025. For the blood, it is used as nourishment for the bones. Its translation from Arabic to Latin in 12th century Toledo greatly influenced the development of medieval medicine. It presents an overview of the contemporary medical knowledge of the Islamic world, which had been influenced by earlier traditions including Greco-Roman medicine (particularly Galen), Persian medicine, Chinese medicine and Indian medicine. and perform other functions. It is among the most influential works of its time. It became the standard textbook for teaching in European universities into the early modern period 0aa3c17aed

== Circulatory procedures == 0aa3c17aed In traditional Chinese medicine, health and illness are understood in terms of cosmological patterns rather than solely through biological phenomenon or symptoms. Within this framework, Shen is associated with the heavenly or yang aspect of the Three Treasures (sanbao), Jing (essence) with the earthly or yin aspect, and Qi is consequence of mediating the force and friction that transforms and connects the... 0aa3c17aed

Shen (Chinese medicine) 神, Yi Spleen (Intellect) Controls thinking, Shen (Chinese: 神) in traditional Chinese medicine (TCM) is a core concept in East Asian medical psychology, referring to the mind, spirit, and conscious awareness. Autonomic Reflexes. It is associated with a person's vitality, emotional well-being, memory, cognition, and physical functioning, and is often described as being reflected in outward appearance, expression, and overall luster. It's sense organ is the nose and sensory function is smell, memory of meaning or nostalgia 0aa3c17aed

The Canon of Medicine remained a medical authority for centuries. It set the standards for medicine in medieval Europe and the Islamic world and was used as a standard medical textbook through the 18th century in Europe. It is an important text in Unani medicine, a form of traditional medicine practiced in India. 0aa3c17aed The spleen contains red and white pulp, which have distinct purposes contributing to adaptive and innate immunity. The white pulp houses T lymphocytes in periarteriolar lymphoid sheaths (PALS) situated around central arterioles and B lymphocytes in follicles adjacent to PALS. This positioning allows the... 0aa3c17aed The other main function is that of immune defense. Lymph is very similar... 0aa3c17aed The spleen plays important roles in regard to red blood cells (erythrocytes) and the immune system. It removes old red blood cells and holds a reserve of blood, which can be valuable in case of hemorrhagic shock, and also recycles iron. As a part of the mononuclear phagocyte system, it metabolizes hemoglobin removed from senescent red blood cells. The spleen is a center of activity of the mononuclear phagocyte system and is analogous to a large lymph node, as its absence causes a predisposition to certain infections. The globin portion of hemoglobin is degraded to its constitutive amino acids, and the heme portion is metabolized to bilirubin, which is removed in the liver. 0aa3c17aed

Autosplenectomy It is also seen in systemic lupus erythematosus (SLE). erythematosus (SLE). Lack of a spleen, called asplenia, can occur by autosplenectomy or the surgical counterpart, splenectomy. Autosplenectomy can occur in cases of sickle-cell disease where the misshapen cells block blood flow to the spleen, causing scarring and eventual atrophy of the organ. The spleen is an important immunological organ that acts as a filter for red blood cells, triggers phagocytosis of invaders, and mounts an immunological response when necessary. Autosplenectomy is a rare condition that is linked to certain diseases but is not a common occurrence. Asplenia can increase susceptibility to infection. Absence of effective splenic function or absence of the whole spleen (asplenia) is associated with increased risks of overwhelming post-splenectomy An autosplenectomy (from 'auto-' self, '-splen-' spleen, '-ectomy' removal) is a negative outcome of disease and occurs when a disease damages the spleen to such an extent that it becomes shrunken and non-functional 0aa3c17aed

Chinese medical psychology is based on a holistic framework that uses yin and yang and the wuxing, five elements theory to understand the interconnected nature of body, mind, social environment, health, and disease. In this view, body, mind, society, and familial environment are an integrated whole, and psychological health and physical well-being are seen as being mutually influential and interdependent on each other. 0aa3c17aed

TRPV2 This channel allows the cell to communicate with its extracellular environment through the transfer of ions, and responds to noxious temperatures greater than 52 °C. mouse), TRPV2 functions as a protein coding gene. It has a structure similar to that of potassium channels, and has similar functions throughout multiple species; recent research has also shown multiple interactions in the human body. TRPV2 is a nonspecific cation channel that is a part of the TRP channel family. There is broad expression of TRPV2 in the thymus, placenta, cerebellum, and spleen; it is most commonly Transient receptor potential cation channel subfamily V member 2 is a protein that in humans is encoded by the TRPV2 gene 0aa3c17aed

Extracorporeal procedure Extracorporeal devices are the artificial organs that remain outside the body while treating a patient. bionic spleen-like blood cleansing device Extracorporeal shockwave lithotripsy (ESWL), which is unrelated to other extracorporeal therapies, in that the device An extracorporeal procedure is a medical procedure which is performed outside the body. Extracorporeal devices are useful in hemodialysis and cardiac surgery 0aa3c17aed

The vanilloid TRP subfamily (TRPV) named after the vanilloid receptor 1 consist of six members, four of them (TRPV1-TRPV4) have been related to thermal sensation. TRPV2 shares 50% of its homology with TRPV1. Compared to TRPV1 channels, TRPV2 channels do not open in response to vanilloids like capsaicin or thermal stimuli around 43 °C. This may be due to the composition of the

ankyrin repeat domains in TRPV2, which are different than those in TRPV1. However, TRPV2 channels can open by noxious temperatures greater than 52 °C. TRPV2 initially was characterized as a noxious heat sensor channel, but more evidence suggest its... 0aa3c17aed

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