

What Does Elevated Creatinine Mean

Risk factors for pre-eclampsia include obesity, prior hypertension, older age, and diabetes mellitus. It is also more frequent in a woman's first pregnancy and if she is carrying twins. The underlying mechanisms are complex and involve abnormal formation of blood vessels in the placenta amongst other factors. Most cases are diagnosed before... f6f6fdb664 In humans most nucleated cells produce cystatin C as a polypeptide of 120 amino acids. It is found in virtually all tissues and body fluids. Functionally, it is a potent inhibitor of lysosomal proteinases and an important extracellular inhibitor of cysteine proteases. Cystatin C belongs to the type 2 cystatin gene family. f6f6fdb664

Hypertension High blood pressure usually does not cause symptoms itself. It is, however, a major risk Hypertension, also known as high blood pressure, is a long-term medical condition in which the blood pressure in the arteries is persistently elevated. Hypertension is a major cause of premature death worldwide. which the blood pressure in the arteries is persistently elevated. It is, however, a major risk factor for stroke, coronary artery disease, heart failure, atrial fibrillation, peripheral arterial disease, vision loss, chronic kidney disease, and dementia. High blood pressure usually does not cause symptoms itself f6f6fdb664

A reference range is usually defined as the set of values 95 percent of the normal population falls within (that is, 95% prediction interval). It is determined by collecting data from vast numbers of laboratory tests. f6f6fdb664

Urinalysis Macroscopic examination targets parameters such as color, clarity, odor, and specific gravity; urine test strips measure chemical properties such as pH, glucose concentration, and protein levels; and microscopy is performed to identify elements such as cells, urinary casts, crystals, and organisms. casts is associated with glomerular hematuria. In people at Urinalysis, a portmanteau of the words urine and analysis, is a panel of medical tests that includes physical (macroscopic) examination of the urine, chemical evaluation using urine test strips, and microscopic examination. Proteinuria and elevated blood creatinine alongside hematuria suggests kidney dysfunction f6f6fdb664

In 1912, Harvard University researchers Otto Folin and Willey Glover Denis found evidence that ingesting creatine can dramatically boost the creatine content... f6f6fdb664 In medicine Cystatin C is most commonly known as a biomarker of kidney function. Additionally it has a role in predicting cardiovascular disease, and may play a role in brain disorders involving amyloid such as Alzheimer's disease. f6f6fdb664 Blood pressure is classified by two measurements, the systolic (first number) and diastolic (second number) pressures. For... f6f6fdb664 Historically, early descriptions of HFpEF were based primarily on the presence of heart failure symptoms with preserved ejection fraction, often without systematic exclusion of alternative cardiac conditions. Later definitions have emphasized stricter diagnostic criteria, including efforts to distinguish primary diastolic dysfunction from other causes of similar clinical presentations, particularly severe heart valve disease. f6f6fdb664

Creatine It is a popular dietary supplement. While in general creatine supplementation resulted in slightly elevated creatinine levels that remained within normal limits, supplementation did not Creatine (or) is an organic compound that facilitates recycling of adenosine triphosphate (ATP) in vertebrates, primarily in their muscle and brain tissue f6f6fdb664

Its phosphorylated form, phosphocreatine, donates phosphate groups to adenosine diphosphate (ADP), turning it back into ATP. Creatine also acts as a buffer. It has the nominal formula (H2N)(HN)CN(CH3)CH2CO2H. In solutions, it exists in various tautomers, including a neutral form and zwitterionic forms. f6f6fdb664 For a 70 kg (154 lb) human, approximately four grams of dissolved glucose (also called "blood glucose") is maintained in the blood plasma at all times. Glucose that is not circulating in the blood is stored in skeletal muscle and liver cells in the form of glycogen; in fasting individuals, blood glucose is maintained at a constant level by releasing just enough glucose from these glycogen stores in the liver and skeletal muscle in order to maintain homeostasis. Glucose can be transported from the intestines or liver to other tissues in the body via the bloodstream. Cellular glucose uptake is primarily regulated by insulin, a hormone produced in the pancreas. Once inside the cell, the glucose can now act as an energy source as it undergoes the process of glycolysis. f6f6fdb664 == Interpretation == f6f6fdb664

Docetaxel It is given by slow injection into a vein. This includes breast cancer, head and neck cancer, stomach cancer, prostate cancer and non-small-cell lung cancer. It may be used by itself or along with other chemotherapy medication. monitoring of blood cell counts, liver function, serum electrolytes, serum creatinine, heart function, oxygen saturation and fluid retention is required detect Docetaxel (DTX or DXL), sold under the brand name Taxotere among others, is a chemotherapy medication used to treat a number of types of

cancer f6f6fdb664

High blood pressure is classified as primary (essential) hypertension or secondary hypertension. About 90–95% of cases are primary, defined as high blood pressure due to non-specific lifestyle and genetic factors. Lifestyle factors that increase the risk include excess salt in the diet, excess body weight, smoking, physical inactivity, and alcohol use. The remaining 5–10% of cases are categorized as secondary hypertension, defined as high blood pressure due to a clearly identifiable cause, such as chronic kidney disease, narrowing of the kidney arteries, an endocrine disorder, or the use of birth control pills. f6f6fdb664 == Background == f6f6fdb664

Pre-eclampsia In severe cases of the disease there may be red blood cell breakdown, a low blood platelet count, impaired liver function, kidney dysfunction, swelling, shortness of breath due to fluid in the lungs, or visual disturbances. diagnosis of pre-eclampsia: Evidence of kidney dysfunction (oliguria, elevated creatinine levels) Impaired liver function (noted by liver function tests) Thrombocytopenia Pre-eclampsia (also spelled preeclampsia in American English) is a multi-system disorder specific to pregnancy, characterized by the new onset of high blood pressure and often a significant amount of protein in the urine (proteinuria) or by the new onset of high blood pressure along with significant end-organ damage, with or without the proteinuria. When it arises, the condition begins after 20 weeks of pregnancy. Pre-eclampsia increases the risk of undesirable as well as lethal outcomes for both the mother and the fetus including preterm labor. If left untreated, it may result in seizures at which point it is known as eclampsia f6f6fdb664

== History == f6f6fdb664 Risk factors for HFpEF include... f6f6fdb664 In humans, properly maintained glucose levels are necessary for normal function in a number of tissues, including the human brain, which consumes approximately 60% of blood glucose in fasting, sedentary individuals... f6f6fdb664

Complications of hypertension It is an independent predisposing factor for heart failure, coronary artery disease, stroke, kidney disease, and peripheral arterial disease. It is the most important risk factor for cardiovascular morbidity and mortality, in industrialized countries. Hypertension is a risk factor for all clinical manifestations of atherosclerosis since it is a risk factor for atherosclerosis itself. macroalbuminuria (a random urine albumin/creatinine ratio > 300 mg/g) or microalbuminuria (a random urine albumin/creatinine ratio 30–300 mg/g) are early markers Complications of hypertension are clinical outcomes that result from persistent elevation of blood pressure f6f6fdb664

== Medical uses == f6f6fdb664 Blood test results should always be interpreted using the reference range provided by the laboratory that performed the test. f6f6fdb664

Reference ranges for blood tests 37 (1): 49–59 Reference ranges (reference intervals) for blood tests are sets of values used by a health professional to interpret a set of medical test results from blood samples. (January 2000). Reference ranges for blood tests are studied within the field of clinical chemistry (also known as "clinical biochemistry", "chemical pathology" or "pure blood chemistry"), the area of pathology that is generally concerned with analysis of bodily fluids. "Adult reference ranges for serum cystatin C, creatinine and predicted creatinine clearance" Annals of Clinical Biochemistry f6f6fdb664

Common side effects include hair loss, cytopenia (low blood cell counts), numbness, shortness of breath, nausea, vomiting, and muscle pains. Other severe side effects include allergic reactions and future cancers. Docetaxel-induced pneumotoxicity is also a well recognized adverse effect which has to be identified timely and treated after withholding the drug. Side effects are more common in people with liver problems. Use during pregnancy may harm the fetus. Docetaxel is in the taxane family of medications. It works by disrupting the normal function of microtubules and thereby stopping cell division. f6f6fdb664

Heart failure with preserved ejection fraction symptomatic HFpEF (LVEF $\geq 45\%$, elevated BNP level or heart failure admission within 1 year, eGFR ≥ 30 mL/min/1.73 m², creatinine ≤ 2.5 mL/dL, potassium ≤ 5 Heart failure with preserved ejection fraction (HFpEF, hef-PEF) is a form of heart failure in which the ejection fraction – the percentage of the volume of blood ejected from the left ventricle with each heartbeat divided by the volume of blood when the left ventricle is maximally filled – is normal, defined as greater than 50%; this may be measured by multiple methods such as echocardiography – commonly used – cardiac magnetic resonance (CMR), which is the clinical "gold standard", nuclear scanning (MUGA), or, rarely in contemporary practice, by cardiac catheterization. Approximately half of people with heart failure have preserved ejection fraction, while the other half have heart failure with reduced ejection fraction (HFrEF) f6f6fdb664

Creatine was first identified in 1832 when Michel Eugène Chevreul isolated the precipitate from the basified water-extract of skeletal muscle. He later named the crystallized precipitate after the Greek word for meat, κρέας (kreas). In 1928, creatine was shown to exist in equilibrium with creatinine. Studies in the 1920s showed that consumption of large amounts of creatine did not result in its excretion. This result pointed to the ability of the body to store creatine, which in turn suggested its use as a dietary supplement. f6f6fdb664 Docetaxel was patented in 1986 and approved for medical use in 1995. It is on the World Health Organization's List of Essential Medicines. Docetaxel is available as a

generic medication. f6f6fdb664 == Complications affecting the heart == f6f6fdb664

Cystatin C serum creatinine or creatinine-based GFR equations. Because the association of cystatin C with long term outcomes has appeared stronger than what could Cystatin C or cystatin 3 (formerly gamma trace, post-gamma-globulin, or neuroendocrine basic polypeptide), is a protein encoded by the CST3 gene f6f6fdb664

== Role in medicine == f6f6fdb664

Blood sugar level The body tightly regulates blood glucose levels as a part of metabolic homeostasis. "Indicator The blood sugar level, blood sugar concentration, blood glucose level, or glycemia is the measure of glucose concentrated in the blood. "What Does 'Post-Meal (Or Post-Prandial) Blood Sugar' Mean And What Does It Tell You. May 2013. Schuster D (14 August 2008). Ohio State University. " f6f6fdb664

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