

High Urine Specific Gravity

Azotemia has three classifications, depending on its causative origin: prerenal azotemia, renal azotemia, and postrenal azotemia. 887f37821c HPLC is essentially a pressurized form of column chromatography, which uses pressurized pumps instead of the force of gravity, and thinner and longer columns with smaller adsorbent particles. These increase its analytic resolution. 887f37821c

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. examination targets parameters such as color, clarity, odor, and specific gravity; urine test strips measure chemical properties such as pH, glucose concentration 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 887f37821c

HPLC is widely used for manufacturing (e.g., during the production process of pharmaceutical and biological products), legal (e.g., detecting performance enhancement drugs in urine), research (e.g., separating the components of a complex biological sample, or of similar synthetic chemicals from each other), and medical (e.g., detecting vitamin D levels in blood serum) purposes. 887f37821c Although struvite was briefly mentioned in Hooke's Micrographia, it was first described in detail in 1845 by the German chemist Georg Ludwig Ulex (1811–1883), who found crystals of struvite in what he surmised had once been a medieval midden in Hamburg, Germany; he named the new mineral after the geographer and geologist Heinrich Christian Gottfried von Struve (1772–1851) of Hamburg. 887f37821c

Urine Urine is not sterile, not even in the bladder, contrary Urine is the fluid excreted by the kidneys of vertebrates to clear the bloodstream of excess water and metabolic by-products including urea, uric acid, and creatinine. Human urine has a specific gravity of 1. 003–1. 035. chlorothiazide diuretics, and methenamine mandelate 887f37821c

Struvite urinary stones and crystals form readily in the urine of animals and humans that are infected with ammonia-producing organisms. They are potentiated by alkaline urine and high magnesium excretion (high magnesium/plant-based diets). They also are potentiated by a specific urinary protein in domestic cats. 887f37821c

Urine test strip The specific gravity of urine is a measure of its density compared to H₂O and depends on the A urine test strip or dipstick is a basic diagnostic tool used to determine pathological changes in a patient's urine in standard urinalysis. one of the first renal functions to be affected by disease 887f37821c

Azotemia decreased urine sodium level, a high urine creatinine-to-serum creatinine ratio, a high urine urea-to-serum urea ratio, and concentrated urine (determined Azotemia (from azot 'nitrogen' and -emia 'blood condition'), also spelled azotaemia, is a medical condition characterized by abnormally high levels of nitrogen-containing compounds (such as urea, creatinine, and other nitrogen-rich compounds) in the blood. It is largely related to insufficient or dysfunctional filtering of blood by the kidneys. It can lead to uremia and acute kidney injury if not controlled 887f37821c

High pressure pumps force mixtures of various solvents (the mobile phase, e.g., water, buffers, acetonitrile and/or methanol) to flow through... 887f37821c == Background == 887f37821c

Relative density or RD) is preferred modern use, for example in ISO, IUPAC, and NIST whereas the term "specific gravity" (abbreviated S. 2 °F); for gases, the reference is air at room temperature (25 °C or 77. The term "relative density" (abbreviated r. G. 0 °F). The relative density of solids and liquids is nearly always measured with respect to water at its densest (at 4 °C or 39. or SG) is gradually being abandoned. d. Relative density, also called specific gravity, is a dimensionless quantity defined as the ratio of the density (mass divided by volume) of a substance Relative density, also called specific gravity, is a dimensionless quantity defined as the ratio of the density (mass divided by volume) of a substance to the density of a given reference material 887f37821c

== Name == 887f37821c

Urine-diverting dry toilet A urine-diverting dry toilet (UDDT) is a type of dry toilet with urine diversion that can be used to provide safe, affordable sanitation in a variety of A urine-diverting dry toilet (UDDT) is a type of dry toilet with urine diversion that can be used to provide safe, affordable sanitation in a variety of contexts worldwide. While dried feces and urine harvested from UDDTs can be and routinely are used in agriculture (respectively, as a soil amendment and nutrient-rich fertilizer—this practice being known as reuse of excreta in agriculture), many UDDT installations do not apply any sort of recovery scheme. The separate collection of feces and urine without any flush water has many advantages, such as odor-free operation and pathogen reduction by drying. The UDDT is an example of a technology that can be used to achieve a sustainable sanitation system. This dry excreta management system (or "dry sanitation" system) is an alternative to pit latrines and flush toilets, especially where water is scarce, a connection to a sewer system and centralized wastewater treatment plant is not feasible or desired, fertilizer and soil conditioner are needed for agriculture, or groundwater pollution should be minimized 887f37821c

A standard urine test strip may comprise up to 10 different chemical pads or reagents which react (change color) when immersed in, and then removed from, a urine sample. The test can often be read in as little as 60 to 120 seconds after dipping, although certain tests require longer. Routine testing of the urine with multiparameter strips is the first step in the diagnosis of a wide range of diseases. The analysis includes testing for the presence of proteins, glucose, ketones, haemoglobin, bilirubin, urobilinogen, acetone, nitrite and leucocytes as well as testing of pH and specific gravity or to test

for infection by different pathogens. 887f37821c The detection windows depend upon multiple factors: drug class, amount and frequency of use, metabolic... 887f37821c Human urine and feces, called human waste or human excreta, are managed via sanitation systems. Livestock urine and feces also require proper management if the livestock population density is high. 887f37821c There are several types of UDDTs: the single vault type which has only one feces vault; the double vault type which has two feces vaults... 887f37821c

Struvite They are potentiated by alkaline urine and high magnesium excretion Struvite (magnesium ammonium phosphate, sometimes abbreviated as MAP) is a phosphate mineral with formula: $\text{NH}_4\text{MgPO}_4 \cdot 6\text{H}_2\text{O}$. 5 to 2 and has a low specific gravity of 1. It is a soft mineral with Mohs hardness of 1. It is sparingly soluble in neutral and alkaline conditions, but readily soluble in acid. Struvite crystallizes in the orthorhombic system as white to yellowish or brownish-white pyramidal crystals or in platy mica-like forms. readily in the urine of animals and humans that are infected with ammonia-producing organisms. 7 887f37821c

Temperature and pressure must be specified for both the sample and the... 887f37821c The value of urine for diagnostic purposes has been recognized since ancient times. Urine examination was practiced in Sumer and Babylonia as early as 4000 BC, and is described in ancient Greek and Sanskrit texts. Contemporary urine testing uses a range of methods to investigate the physical and biochemical properties of the urine. For instance, the results of the routine urinalysis can provide information about the functioning of the kidneys and urinary system; suggest the presence of a urinary tract infection (UTI); and screen for possible diabetes or liver disease, among other conditions. A urine culture can be performed to identify the bacterial species involved in a UTI. Simple point-of-care tests can detect pregnancy by... 887f37821c == Background == 887f37821c

Drug test BAC tests are typically administered via a breathalyzer while urinalysis is used for the vast majority of drug testing in sports and the workplace. Major applications of drug testing include detection of the presence of performance enhancing steroids in sport, employers and parole/probation officers screening for drugs prohibited by law (such as cocaine, methamphetamine, and heroin) and police officers testing for the presence and concentration of alcohol (ethanol) in the blood commonly referred to as BAC (blood alcohol content). properties of normal urine, such as, urine creatinine, pH, and specific gravity. Numerous other methods with varying degrees of accuracy, sensitivity (detection threshold/cutoff), and detection periods exist. Others are intended to catch substances added to the urine to alter the test A drug test (also often toxicology screen or tox screen) is a technical analysis of a biological specimen, for example urine, hair, blood, breath, sweat, or oral fluid/saliva—to determine the presence or absence of specified parent drugs or their metabolites 887f37821c

A drug test may also refer to a test that provides quantitative chemical analysis of an illegal drug, typically intended to help with responsible drug use. 887f37821c The test strips consist of a ribbon made of plastic or paper of about 5 millimetre wide. Plastic strips have pads impregnated with chemicals that react with the compounds present in

urine producing a characteristic colour. For the paper strips the reactants are absorbed directly onto the paper. Paper strips are often specific to a single reaction (e.g. pH measurement), while the strips with pads allow several... 887f37821c == Physiology == 887f37821c In mammals, urine travels from the kidneys via the ureters to the bladder for storage until urination. Placental mammals expel urine from the bladder through the urethra, whereas other vertebrates urinate through the cloaca. 887f37821c Measurements of urea and creatinine (Cr) in the blood are used to assess renal function. For historical reasons, the lab test measuring urea is known as "blood urea nitrogen" (BUN) in the US. The BUN:Cr ratio is a useful measure in determining the type of azotemia and will be discussed in each section below. A normal BUN:Cr is equal to 15. 887f37821c Urine plays an important role in the earth's nitrogen cycle. In balanced ecosystems, urine fertilizes the soil and thus helps plants to grow. Therefore, urine can be used as a fertilizer. Some animals mark their territories with urine. Historically, aged or fermented urine (known as lant) was also used in gunpowder production, household cleaning, leather tanning, and textile dyeing. 887f37821c

High-performance liquid chromatography The mixtures can originate from food, chemicals, pharmaceuticals, biological, environmental and agriculture, etc. g. , separating the components of a complex biological sample High-performance liquid chromatography (HPLC), formerly referred to as high-pressure liquid chromatography, is a chromatography technique in analytical chemistry used to separate, identify, and quantify specific components (analytes) in mixtures. g. , detecting performance enhancement drugs in urine), research (e. , in which the sample analyzed is either a liquid or has been dissolved into a liquid. biological products), legal (e 887f37821c

== Detection periods == 887f37821c == Types == 887f37821c If a substance's relative density is less than 1 then it is less dense than the reference; if greater than 1 then it is denser than the reference. If the relative density is exactly 1 then the densities are equal; that is, equal volumes of the two substances have the same mass. If the reference material is water, then a substance with a relative density less than 1 will float in water. For example, an ice cube, with a relative density of about 0.91, will float. A substance with a relative density greater than 1 will sink. 887f37821c

Urine test The analysis of urine is a valuable diagnostic tool because its composition reflects the functioning of many body systems, particularly the kidneys and urinary system, and specimens are easy to obtain. microalbuminuria Urine osmolality — measure of the solute concentration of urine Urine specific gravity — another measure of urine concentration Urine electrolyte A urine test is any medical test performed on a urine specimen. Common urine tests include the routine urinalysis, which examines the physical, chemical, and microscopic properties of the urine; urine drug screening; and urine pregnancy testing 887f37821c

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