

How To Compute Kidney Function

Abdominal ultrasound examinations are performed by gastroenterologists or other specialists in internal medicine, radiologists, or sonographers trained for this procedure. 2cc0ee9085

Analgesic nephropathy is injury to the kidneys caused by analgesic medications such as aspirin, buccetin, phenacetin, and paracetamol. It may also be used to describe kidney injury from any single analgesic medication. The term usually refers to damage induced Analgesic nephropathy is injury to the kidneys caused by analgesic medications such as aspirin, buccetin, phenacetin, and paracetamol. The term usually refers to damage induced by excessive use of combinations of these medications, especially combinations that include phenacetin

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Treatment may include surgery, radiation therapy, chemotherapy, immunotherapy, and targeted therapy. Kidney cancer newly affected about 403,300 people and resulted in 175,000 deaths globally in 2018. Onset is usually after the age of 45. The overall five-year survival rate is 78% in the United States and 73% in Canada. Using older... 2cc0ee9085 Analgesic nephropathy was once a common cause of kidney injury and end-stage kidney disease in parts of Europe, Australia, and the United States. In most areas, its incidence has declined sharply since the use of phenacetin fell in the 1970s and 1980s. 2cc0ee9085 Symptoms of hydronephrosis differ among individuals depending on how quickly urine flow is blocked and whether the blockage is slowly or suddenly. Sudden obstruction in the outflow of urine may lead to severe flank pain, while an obstruction that forms slowly may cause little or no pain. Possible complications... 2cc0ee9085 Hydronephrosis can be caused by a wide variety of conditions, including congenital abnormalities of the

urinary tract, kidney stones, tumors, narrowing of the ureters, bladder outlet obstruction, or pressure from nearby structures such as an enlarged prostate or the uterus during pregnancy. Hydronephrosis in children is most often caused by a structural abnormality while in adults, hydronephrosis is commonly caused by kidney stones, prostate enlargement, or cancer. 2cc0ee9085 == Kidney disease == 2cc0ee9085 Alport syndrome is caused by an inherited defect in type IV collagen—a structural material needed for the normal function of different body parts. Since type IV collagen is found in the ears, eyes, and kidneys, this explains why Alport syndrome affects different seemingly unrelated parts of the body (ears, eyes, kidneys, etc.). 2cc0ee9085 Before receiving a kidney transplant, a person with ESRD must undergo a thorough medical evaluation to make sure that they are healthy enough to undergo transplant surgery. If they are deemed a good candidate, they can be placed on a waiting list to receive a kidney from a deceased donor. Once they are placed... 2cc0ee9085

Blunt kidney trauma RF (Jan 2008). The consequences are usually less severe than injuries involving other internal organs. Of those, 13 percent are sports-related when the kidney, followed by testicle, is most frequently involved. "Kidney injuries in professional American football: implications for management of an athlete with 1 functioning kidney" . Am J Sports Med The kidney is injured in approximately 10 percent of all significant blunt abdominal trauma. However, the most frequent cause by far is traffic collisions, followed by falls 2cc0ee9085

Hydronephrosis parts of the kidney that function to collect urine (renal pelvis and calyces). Hydronephrosis can affect one or both kidneys and can develop suddenly or gradually over time. Hydronephrosis can affect one or both kidneys and can develop suddenly Hydronephrosis is a medical condition where the kidney becomes enlarged due to a complete or partial obstruction in the outflow of urine. This condition affects individuals of all ages including in fetuses during pregnancy. This results in the dilation of

parts of the kidney that function to collect urine (renal pelvis and calyces) 2cc0ee9085

Urologic disease Kidney failure is known as Urologic diseases or conditions include urinary tract infections, kidney stones, bladder control problems, and prostate problems, among others. Kidney diseases are normally investigated and treated by nephrologists, while the specialty of urology deals with problems in the other organs. usually causes a loss of kidney function to some degree and can result in kidney failure, the complete loss of kidney function. Gynecologists may deal with problems of incontinence in women. Some urologic conditions do not affect a person for long and some are lifetime conditions 2cc0ee9085

The disorder was first identified in a British family by the physician Cecil A. Alport in 1927. Alport syndrome once also had the label hereditary nephritis, but this is misleading as there are many other causes of hereditary kidney disease and 'nephritis'. 2cc0ee9085 ==

Medical uses == The main types of kidney cancer are renal cell cancer (RCC), transitional cell cancer (TCC), and Wilms' tumor. RCC makes up about 80% of kidney cancers, and TCC accounts for most of the rest. Risk factors for RCC and TCC include smoking, certain pain medications, previous bladder cancer, being overweight, high blood pressure, certain chemicals, and a family history. Risk factors for Wilms' tumor include a family history and certain genetic disorders such as WAGR syndrome. Diagnosis may be suspected based on symptoms, urine testing, and medical imaging. It is confirmed by tissue biopsy. Diseases of other bodily systems also have a direct effect on urogenital function. For instance, it has been shown that protein released by the kidneys in diabetes mellitus sensitizes the kidney to the damaging effects of hypertension. Diabetes also can have a direct effect on urination due to peripheral neuropathies, which occur in some individuals with poorly controlled diabetics. == Presentation ==

Kidney cancer Complications can include spread to the lungs or brain. Tentative evidence indicates that iodinated contrast agents may cause worsening of kidney function in people with chronic kidney disease Kidney cancer, also known as renal cancer, is a group of cancers that start in the kidney. of kidney cancer. Fever, weight loss, and tiredness may also occur. Symptoms may include blood in the urine, a lump in the abdomen, or back pain 2cc0ee9085

Nephrology also studies systemic conditions that affect the kidneys, such as diabetes and autoimmune disease; and systemic diseases that occur as a result of kidney disease, such as renal osteodystrophy and hypertension. A physician who has undertaken additional training and become certified in nephrology... 2cc0ee9085

Nephrology Other experts advocate preserving the use of renal and nephro- including in "nephrology" and "renal replacement therapy". of the kidneys, specifically normal kidney function (renal physiology) and kidney disease (renal pathophysiology), the preservation of

kidney health, Nephrology (from Ancient Greek νεφρός (nephros), meaning "kidney", and λόγος (logos), meaning "study") is a specialty for both adult internal medicine and pediatric medicine that concerns the study of the kidneys, specifically normal kidney function (renal physiology) and kidney disease (renal pathophysiology), the preservation of kidney health, and the treatment of kidney disease, from diet and medication to renal replacement therapy (dialysis and kidney transplantation). The word "renal" is an adjective meaning "relating to the kidneys", and its roots are French or late Latin. Some experts believe "renal" and "nephro-" should be replaced with "kidney" in scientific writings such as "kidney medicine" (instead of "nephrology") or "kidney replacement therapy" 2cc0ee9085

The specific kidney injuries induced by analgesics are renal papillary necrosis and chronic interstitial nephritis. They appear to result from decreased blood flow to the kidney, rapid consumption of antioxidants, and subsequent oxidative damage to the kidney. This kidney damage may lead to progressive chronic kidney failure,

abnormal urinalysis results, high blood pressure, and anemia. A small proportion of individuals with analgesic nephropathy may develop end-stage kidney disease. 2cc0ee9085

Computed tomography angiography Using contrast injected into the blood vessels, images are created to look for blockages, aneurysms (dilations of walls), dissections (tearing of walls), and stenosis (narrowing of vessels). the use of IV iodine contrast material may further harm kidney function. CTA can be used to visualize the vessels of the heart, the aorta and other large blood vessels, the lungs, the kidneys, the head and neck, and the arms and legs. CTA can also be used to localise arterial or venous bleed of the gastrointestinal system. The decision not to use contrast agents must be weighed against the possibility Computed tomography angiography (also called CT angiography or CTA) is a computed tomography technique used for angiography—the visualization of arteries and veins—throughout the human body 2cc0ee9085

== Sports related injury == 2cc0ee9085

Alport syndrome Blood in urine is universal. Since type IV collagen is found in the ears, eyes, and kidneys, this explains why Alport syndrome Alport syndrome is a rare genetic disorder, characterized by glomerulonephritis, end-stage kidney disease, and hearing loss. Proteinuria is a feature as kidney disease progresses. Alport syndrome can also affect the eyes, though the changes do not usually affect vision, except when changes to the lens occur in later life. material needed for the normal function of different body parts 2cc0ee9085

Kidney transplantation chronic, depending on how long after the transplant it occurs. Kidney transplant is typically classified as deceased-donor (formerly known as cadaveric) or living-donor transplantation depending on the source of the donor organ. In 2018, an estimated 95,479 kidney transplants were performed worldwide, 36% of which came from living donors. Living-donor kidney

transplants are further characterized as genetically related (living-related) or non-related (living-unrelated) transplants, depending on whether a biological relationship exists between the donor and recipient. It is important to regularly monitor the new kidney's function by measuring serum creatinine. Kidney transplant or renal transplant is the organ transplant of a kidney into a patient with end-stage kidney disease (ESRD). The first successful kidney transplant was performed in 1954 by a team including Joseph Murray, the recipient's surgeon, and Hartwell Harrison, surgeon for the donor. Murray was awarded a Nobel Prize in Physiology or Medicine in 1990 for this and other work.

Formerly, the American Academy of Pediatrics Committee on Sports Medicine and Fitness advised against such children and adolescents from participating in contact sports. Children's kidneys are prone to injury from blunt force trauma due to their size and location... Abdominal ultrasound can be used to diagnose abnormalities in various internal organs, such as the kidneys, liver,

gallbladder, pancreas, spleen and abdominal aorta. If Doppler ultrasonography is added, the blood flow inside blood vessels can be evaluated as well (for example, to look for renal artery stenosis). It is commonly used to examine the uterus and fetus during pregnancy... 2cc0ee9085 Depending on where the mutation is located in the genome, Alport syndrome can present itself in many forms. This includes X-linked Alport syndrome (XLAS), autosomal recessive Alport syndrome (ARAS), and autosomal dominant Alport syndrome (ADAS). 2cc0ee9085 Blunt injuries to the kidney from helmets, shoulder pads, and knees are described in football, and in soccer, martial arts, and all-terrain vehicle crashes. A literature review of peer-reviewed articles in May 2009 demonstrated that urogenital injuries are uncommon in team and individual sports, and that most of them are low-grade injuries, cycling being the most commonly associated, followed by winter sports, horse riding and contact/collision sports. A special situation has existed in the athletic participant with a single kidney. 2cc0ee9085 == Signs and... == 2cc0ee9085 CTA can be used to examine blood vessels in many key

areas of the body including the brain, kidneys, pelvis, and the lungs.
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Abdominal ultrasonography For this reason, the procedure is also called a transabdominal ultrasound, in contrast to endoscopic ultrasound, the latter combining ultrasound with endoscopy through visualize internal structures from within hollow organs. It uses transmission and reflection of ultrasound waves to visualise internal organs through the abdominal wall (with the help of gel, which helps transmission of the sound waves). Right kidney Right kidney Right kidney Right kidney Right kidney Right kidney Right kidney Left kidney Left kidney Left kidney Left kidney Left Abdominal ultrasonography (also called abdominal ultrasound imaging or abdominal sonography) is a form of medical ultrasonography (medical application of ultrasound technology) to visualise abdominal anatomical structures 2cc0ee9085

== Medical uses == 2cc0ee9085

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