

E Faecalis In Urine

This species is one of 25 in the genus *Clausena*, first described in 1768 by the Dutch botanist Nicolaas Laurens Burman, and named for the Norwegian clergyman, Peder Claussøn Friis (1545-1614), the translator of the Icelandic historian and poet, Snorri Sturluson.

Physiology and classification
== Pyelonephritis affects about 1 to 2 per 1,000 women each year...
== Types ==
Medical uses ==

Genitourinary microbiome most common disease-causing organisms in urinary tract infections are *Escherichia coli*, *Enterococcus faecalis*, *Klebsiella* species,

Pseudomonas aeruginosa The genitourinary microbiome refers to the aggregate of bacteria, archaea, and fungi that may colonize the human genital and urinary tract. Some analyses also include any viruses and protists present. This term encompasses both the human urinary microbiome (urobiome), as well as the genital microbiome, and is a subset of the human microbiome 822fa092be

Kidney infections usually occurs when a bladder infection spreads, but may also come from bacteria in the blood. Diagnosis in young healthy women can... 822fa092be Pyelonephritis may be preventable by urination after sex and drinking sufficient fluids. Once present it is generally treated with antibiotics, such as ciprofloxacin or ceftriaxone. Those with severe disease may require treatment in hospital. In

those with certain structural problems of the urinary tract or kidney stones, surgery may be required. 822fa092be

Enterococcus Enterococci are Gram-positive cocci that often occur in pairs (diplococci) or short chains, and are difficult to distinguish from streptococci on physical characteristics alone. Rare clusters of infections occur with other species, including *E. faecalis* (90–95%) and *E. Two species are common commensal organisms in the intestines of humans: E. faecium* (5–10%). *durans*, *E. organisms in the intestines of humans: E. casseliflavus*, *E. gallinarum*, and *E. durans* Enterococcus is a large genus of lactic acid bacteria of the phylum Bacillota. Rare clusters of infections occur with other species, including *E. faecium* (5–10%). *faecalis* (90–95%) and *E. raffinosus* 822fa092be

Hemolysis (microbiology) This

is particularly useful in classifying streptococcal species. Enterococcus faecalis (formerly called "Group D Strep"), Staphylococcus saprophyticus, and Staphylococcus Hemolysis is the breakdown of red blood cells. A substance that causes hemolysis is called a hemolysin. The ability of bacterial colonies to induce hemolysis when grown on blood agar is used to classify certain microorganisms. non-hemolytic or said to display gamma-hemolysis (γ -hemolysis)

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Enterococci are facultative anaerobic organisms, i.e., they are capable of cellular respiration in both oxygen-rich and oxygen-poor environments. Though they are not capable of forming spores, enterococci are tolerant of a wide range of environmental conditions: extreme temperature (10–45 °C), pH (4.6–9.9), and high

sodium chloride concentrations.
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Imipenem/cilastatin agalactiae,
S. It is given by injection into a
vein or muscle. Specifically it is
used for pneumonia, sepsis,
endocarditis, joint infections,
intra-abdominal infections, and
urinary tract infections. It is
made from a combination of
imipenem and cilastatin.
viridans- group streptococci,
Enterococcus faecalis,
Pseudomonas aeruginosa,
Escherichia coli, Proteus
mirabilis, Bacteroides
Imipenem/cilastatin, sold under
the brand name Primaxin
among others, is an antibiotic
useful for the treatment of a
number of bacterial infections.
pyogenes, S 822fa092be

Lancefield grouping Lancefield
grouping is a system of
classification that classifies
catalase-negative Gram-positive
cocci based on the
carbohydrate composition of

bacterial antigens found on their cell walls. Priloz. "Virulence factors and antibiotic resistance in Enterococcus faecalis isolated from urine samples". However, it has retained some clinical usefulness even after the taxonomic changes, and as of 2018, Lancefield designations are still often used to communicate medical microbiological test results. 29 (1): 57-66. The system, created by Rebecca Lancefield, was historically used to organize the various members of the family Streptococcaceae, which includes the genera Lactococcus and Streptococcus, but now is largely superfluous due to explosive growth in the number of streptococcal species identified since the 1970s. G (2008). PMID 18709000 822fa092be

Imipenem/cilastatin was first sold in 1987. It is on the World Health Organization's List of

Essential Medicines.
822fa092be There is now evidence to support colonization of the female bladder as well as the male lower urinary tract. The significance of the genitourinary microbiome on disease incidence or progression is not yet understood. Perturbations in the genitourinary microbiome...
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Pyelonephritis organisms that enter the urinary tract. Common organisms are E. Hospital-acquired infections may be due to coliform bacteria. Pyelonephritis is inflammation of the kidney, typically due to a bacterial infection. Symptoms most often include fever and flank tenderness. Other symptoms may include nausea, burning with urination, and frequent urination. coli (70–80%) and Enterococcus faecalis. Complications may include pus around the kidney,

sepsis, or kidney failure
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LaPlante has authored more than 150 publications. She has worked on treatment, prevention, outcomes, virulence inhibition, and decolonization of multiple drug resistant bacteria. She has also explored pharmacodynamic dosing indexes of antimicrobial therapy and the role of drug therapy on bacterial virulence factors such as toxin and biofilm formation. Her clinical research primarily focuses on the implementation of antimicrobial stewardship programs across the Veterans Health Administration.

822fa092be The classification assigns a letter code to each serotype. There are 20 described serotypes assigned the letters A to V (excluding E, I and J). Bacteria of the genus *Enterococcus*, formerly known as group D streptococci, were classified as members of the

genus *Streptococcus* until 1984 and are included in the original Lancefield grouping. Many—but not all—species of *streptococcus* are hemolytic. Notably, enterococci and *Streptococcus bovis* (Lancefield group D) are not beta-hemolytic. Though there are... Up to 10 m tall, this species has smooth, thin, grey-green bark becoming brownish and mottled with age. Young parts are puberulous. The compound leaves are up to 30 cm long... The most common cause of infection is *E. coli*, though other bacteria or fungi may sometimes be the cause. Risk factors include being female, sexual intercourse, diabetes, using a catheter, and family history. Additional factors that have been found to increase the risk of infection include urinary retention (delaying urination), insufficient water intake, use of spermicides as a contraceptive method, and poor genital

hygiene. 822fa092be LaPlante is a Fellow of the American College of Clinical Pharmacy... 822fa092be Common side effects include nausea, diarrhea, and pain at the site of injection. Other side effects may include Clostridioides difficile diarrhea and allergic reactions including anaphylaxis. It is unclear if use during pregnancy is safe for the baby. Imipenem is in the carbapenem family of medications and works by interfering with the bacteria's cell wall. Cilastatin blocks the activity of dehydropeptidase I which prevents the breakdown of imipenem. 822fa092be

Clausena anisata It is cultivated in Malaysia and Indonesia. typhimurium, Pseudomonas aeruginosa, Alcaligenes faecalis, Bacillus subtilis, Enterococcus faecalis, Flavobacterium suaveolens, Leuconostoc mesenteroides Clausena anisata is a deciduous

shrub or small tree, belonging to the Rutaceae (citrus) family, and widespread in the Sub-Saharan Africa, but absent from drier regions. As with other plants useful to mankind its large range of medicinal properties has led to a global distribution and its growth wherever the climate is suitable. It grows in higher-rainfall regions in savanna, thickets, riverine forest, disturbed areas and secondary forest, up to an altitude of 3000 m. It is also found in tropical and South-East Asia, India and Sri Lanka. The leaves, which are foetid when bruised, give rise to the common name horsewood or the more descriptive Afrikaans common name perdepis, meaning 'horse urine' 822fa092be

Urinary tract infection Lower UTIs affect the bladder (cystitis) or urethra while upper UTIs affect the kidney (pyelonephritis). Symptoms may

be less clear in very young or old people. Symptoms from a lower UTI include burning or pain during urination, pain in the lower abdomen and the urge to urinate even when the bladder is empty. Symptoms of a kidney infection are more systemic and include fever or flank pain, usually in addition to the symptoms of a lower UTI. Rarely, the urine may appear bloody. *Pseudomonas aeruginosa* and *Enterococcus faecalis*. These species can form biofilms and colonise catheters. In sub-Saharan Africa, *Staphylococcus aureus* A urinary tract infection (UTI) is an infection that affects a part of the urinary tract, which includes the bladder, urethra and the kidney 822fa092be

Studies of the human microbiome traditionally lack in discussion of the genitourinary system due to the long-standing misnomer that urine that does not grow colony-forming units

(CFUs) in standard microbiological cultures is "sterile". This has stunted research on microbiomes of the bladder or urethra. 822fa092be E. faecium and E. faecalis can be differentiated based on their carbohydrate metabolism: E. faecium consistently metabolizes lactose but not melezitose or inositol, whereas E. faecalis reliably metabolizes sorbitol and sucrose but lacks the ability to utilize L-arabinose, melibiose, or raffinose. Less is known of... 822fa092be

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LaPlante has conducted several
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infections. She currently serves
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Rhode Island College of
Pharmacy. *Staphylococcus*
aureus and *Enterococcus*
faecalis 822fa092be

Imipenem/cilastatin is used for
lower respiratory tract
infections, urinary tract
infections, intra-abdominal
infections, gynecologic
infections, bacterial sepsis,
bone and joint infections, skin
and skin structure infections...
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Disk diffusion test In drug

discovery labs, especially bioprospecting labs, the assay is used to screen biological material (e. In diagnostic labs, the assay is used to determine the susceptibility of bacteria isolated from a patient's infection to clinically approved antibiotics. org. Retrieved 2025-02-24.

“Enterococcus faecalis (Andrewes and Horder Schleifer and Kilpper-Balz 29212 | ATCC” . g. This allows physicians to prescribe the most appropriate antibiotic treatment. plant extracts, bacterial fermentation broths) and drug candidates for antibacterial activity. When bioprospecting, the assay can be performed with paired strains of bacteria to achieve dereplication and provisionally identify antibacterial mechanism of action.

“Enterococcus faecalis (Andrewes - The disk diffusion test (also known as the agar diffusion test, Kirby-Bauer test,

disc-diffusion antibiotic susceptibility test, disc-diffusion antibiotic sensitivity test and KB test) is a culture-based microbiology assay used in diagnostic and drug discovery laboratories. [www. atcc](http://www.atcc.org)

The study of the genitourinary microbiome is young; only the vaginal microbiome has been thoroughly characterized. The development of next-generation sequencing has allowed researchers to use 16S ribosomal RNA to identify organisms present in asymptomatic or "healthy" individuals. 822fa092be == Description == 822fa092be == Research == 822fa092be It is typically due to a bacterial infection, most commonly *Escherichia coli*. Risk factors include sexual intercourse, prior urinary tract infections, diabetes, structural problems of the urinary tract, and spermicide use. The mechanism

of infection is usually spread up the urinary tract. Less often infection occurs through the bloodstream. Diagnosis is typically based on symptoms and supported by urinalysis. If there is no improvement with treatment, medical imaging may be recommended.

822fa092be In diagnostic laboratories, the test is performed by inoculating the surface of an agar plate with bacteria isolated from a patient's infection. Antibiotic-containing paper disks are then applied to the agar and the plate is incubated. If an antibiotic stops the bacteria from growing or kills the bacteria, there will...

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