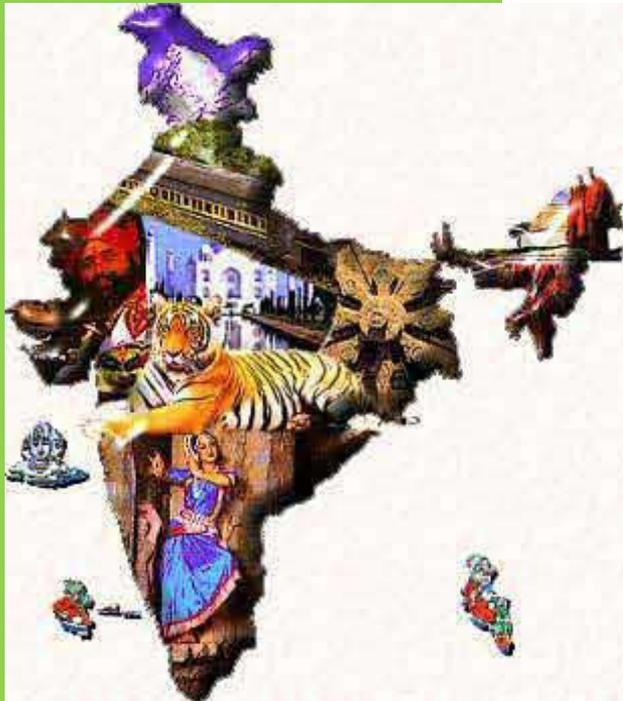


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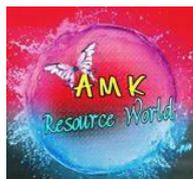
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## Diseases & Causative Agents

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## Diseases & Causative Agents

Disease	Causing Agent	Infection / Transmission
AIDS	Human T -cell Leukemia Virus HTLV-III	blood and sperms , thru sexual contact homo or heterosexual)
Ascariasis	<i>Ascaris lumbricoides</i>	raw vegetables infected with eggs
Athletes' Foot	<i>Trichophyton</i>	bad foot hygiene
Bacillary Dysentery	<i>Shigella Dysenteriae</i>	flies, food, faeces
Botulism	<i>Clostridium botulinum</i>	food poisoning
Chickenpox	<i>Varicella Virus</i>	contact
Cholera	<i>Varibrio Cholerae</i>	flies, food , faeces, carriers
Common Cold	<i>Rhino Virus</i>	contact
Dengue	<i>Dengue Virus (arbovirus)</i>	Aedes Mosquito
Diarrhea	<i>Giardia intestinalis</i>	contaminated stools
Diphtheria	<i>Corynebacterium diptheriae ( Bacteria)</i>	contact
Filariasis	<i>Wuchereria bancrofti</i>	mosquito, infection in lymph nodes and lymphatic vessels
Gonorrhoea	<i>Diplococcus ( Neisseria gonorrhoeae)</i>	sexual intercourse
Herpes	<i>Herps Virus</i>	contact
Hook worm disease	<i>Ancylostoma Duedenale</i>	faisces and walking barefoot.
Influenza Flu	<i>Orthomixovirus</i>	contact
kala azar	<i>Leishmania Donovanii</i>	infected sand fly
Leprosy	<i>Mycobacterium Leprae</i>	Long and close contact
Measles	<i>Measles virus (ParaMyxoVirus)</i>	contact
Mumps	<i>Mumps Virus (Paramyxovirus)</i>	contact, virus in saliva spreads
oriental Sore	<i>Leishmania Tropica</i>	infected sand fly
Pinworm Disease	<i>Enterobius Vermicularis caecum</i>	ingestion of eggs contaminated food
Plague	<i>Yersinia Pestis</i>	Rat Flea
Pneumonia	<i>Diplococcus pneumoniae</i>	bacteria transmission by contact.
Poliomyelitis	<i>Polio Virus or Enterovirus</i>	houseflies, food and water
Rabies	<i>rhabdovirus</i>	mad dog bites
Ringworm	<i>Microsporium Trichophyton</i>	cats and dogs
Septic Sore Throat	<i>Streptococcus Bacteria</i>	contact
Sleeping Sickness	<i>Trypanosoma Brucei</i>	reaches lymph nodes via

		transmission thru fly bites
<b>Smallpox</b>	<i>Variola Virus</i>	contact
<b>Syphilis</b>	<i>Treponema Palladium</i>	direct contact mainly sex
<b>TB</b>	<i>Mycobacterium tuberculosis</i>	Bacteria transmission by cough
<b>Tetanus</b>	<i>Clostridium tetani</i>	bacteria in soil thru wounds
<b>Typhoid</b>	<i>Salmonella Typhi</i>	Flies, food etc.
<b>Vaginitis</b>	<i>Trichomonas Vaginalis</i>	Female Vaginal tracts, Male Urinary Tract both may be infected during coitus
<b>Viral Encephelitis</b>	<i>arbovirus</i>	mosquito Bite
<b>Whooping cough</b>	<i>Hameophilus Pertussis</i>	coughing and sneezing

### Human diseases caused by flatworms and roundworms

- Beef tapeworm disease- *Taenis saginata*- Intestine-Beef consumption
- Blood fluke disease- *Schistossoma mansoni*- Liver, lungs- Water contact
- Eye worm disease- *Loa loa*- Eye connective tissue- Deerflies, horseflies
- Dwarf tapeworm disease- *Hymenolepis nana*- Intestine- Food, contact
- Filariasis- *Wuchereria bancrofti*- Lymph- vessels ,Mosquito
- Hookworm disease- *Ancylostoma duodenale*- Intestine, lymph-Contactwith vegetation
- intestinal fluke disease- *Fasciolopsis buski*- Intestine -Consumption of water
- Pork tapeworm disease- *Taenia solium*- Intestine- Pork consumption
- Pinworm disease- *Enterobius vermicularis*- Intestine- Contact, food
- Roundworm disease- *Ascaris lumbricoides*- Intestine, lungs -Water, Food
- Trichionosis- *Trichinella spiralis*- Muscles, Intestine, eye -Pork consumption
- Whipworm disease- *Trichuris trichiura*- Intestine- Water, food

### Human diseases caused by protozoan

- Amoebiasis- *Entamoeba histolytica*- Food, water
- African sleeping sickness- *Trypanosoma brucei*- Tsetse fly
- American sleeping sickness- *T. cruzi*- Triatomid bug
- Balantidiasis- *Balantidium coli*- Water, food

- Giardiasis- *Giardia lamblia*- Contact, water
- Malaria- *Plasmodium spp.*- Mosquito
- Leishmaniasis- *Leishmania donovani*- Sandfly
- Trichomoniasis- *Trichomonas vaginalis*- Sexual contact

### Human disease cause by Virus

- AIDS- *Human immunodeficiency virus(HIV)* - Sexual contact
- Hepatitis- *Hepatitis A,B, C, D, E*- Contaminated blood and blood product
- Influenza- *Influenza virus*- Droplet infection
- Rabies- *Rabies virus*- Bit from an infected animal
- Measles- *Measles virus*- Respiration and aerosol transmission

### Human diseases cause by Bacteria

- Anthrax- *Bacillus anthracis*- Infected animals
- Botulism- *Clostridium botulinum*- Food and contamination of wound
- Bacillary dysentery- *Shigella dysenteriae*- Contaminated, food, water
- Cholera- *Vibrio cholerae*- Contaminated food and water
- Chlamydia- *Chlamydia trachomatis*- Sexual contact
- Diphtheria- *Corynebacterium diphtheriae*- Direct physical contact
- Gonorrhoea- *Neisseria gonorrhoeae*- Sexual contact
- Legionnaire's disease- *Legionella pneumophila*- Air, water
- Meningococcal meningitis- *Neisseria meningitides*- Saliva and contact with infected person
- Pneumococcal pneumonia- *Streptococcus pneumoniae*- Contact with infected people
- Syphilis- *Treponema pallidum*- Sexual contact
- Typhoid fever- *Salmonella typhi*- Food , milk, contaminated water
- Tetanus- *Clostridium tetani*- Injured surface

- Tuberculosis- *Mycobacterium tuberculosis*- Air
- Whooping cough- *Bordetella pertussis*- Contact with infected people

## Disease

### Bacterial infection diseases

#### Anthrax

A bacterial infectious disease that is caused by the bacteria called *Bacillus anthracis*. It affects different body systems but mostly the respiratory, gastrointestinal, central nervous system and the cutaneous membranes. The symptoms vary according to the system it affects but mostly anthrax inflames the protective membranes of the cells.

#### Bacterial meningitis

Meningitis means an inflammation of the membranes or the meninges of the coverings of the spinal cord and the brain. Bacterial meningitis is caused by group B streptococcus such as the *E. coli*, *Listeria monocytigenes*, *Neisseria meningitides*, *Streptococcus pneumoniae*, and others.

#### Botulism

This is a rare disease where the effects are serious and can paralyze a patient because of the botulinum toxin. The toxins are the metabolic waste of the *Clostridium botulinum* bacteria during anaerobic conditions. In adults, the toxins usually come from the food-borne botulism.

#### Brucellosis

This is a very contagious illness where it is caused by a gram negative bacteria like *Brucella*. This occurs when a person ingests unsterilized or contagious milk from the animals infected by the bacteria. This is also called as the Bang's disease, Malta fever, Crimean fever, Gibraltar fever and others.

#### Campylobacteriosis

This is an infectious disease caused by *Campylobacter* bacterium. This is called foodborne diseases where anybody who ingested food with these bacteria will experience blood stool diarrhea, fever, body pain and cramps.

#### Cholera

Cholera is a foodborne disease where the transmission through the fecal-mouth route. The bacteria causing cholera is *Vibrio cholera* where a person ingests water or food that is infected with feces of the infected person. This causes diarrhea and vomiting and can cause dehydration and death if no treatment is done.

**Diphtheria**

Diphtheria comes from Greek word “diphtheria” which means leather scrolls in pair. This disease affects the upper respiratory system because of the bacteria like *Cornebacterium diphtheriae* which is a gram positive bacterium that attaches to the pharynx, nasal cavity or the tonsils. The patient will present low grade fever and sore throat.

**Epidemic typhus**

This is also called as jail fever, hospital fever, famine fever and others. Epidemic typhus is caused by *Rickettsia prowazekii* and it got its name because of the epidemic it caused during natural disaster and war. This causes high grade fever, rashes, muscle pain that is severe, chills, and even low blood pressure and delirium.

**Gonorrhoea**

This is one of the common causes of sexually transmitted diseases. The problem is caused by *Neisseria gonorrhoeae* which thrives in warm and moist area in the reproductive tract like the cervix and even goes deeper into the fallopian tubes and uterus.

**Impetigo**

An infectious disease caused by *Staphylococcus aureus*. This is also called as the school sores since it affects mostly pre-schoolers. This is a contagious problem which can infect anyone via body or close contact.

**Legionellosis**

This is a fatal infection where the causative agents are gram negative bacteria that belong to the *Legionella* family. It is a respiratory problem where the signs and symptoms resemble that of the influenza virus. The legionellosis comes in 2 forms: the Pontiac fever and the Legionnaire’s disease

**Leprosy**

This is also called as the Hansen’s disease where the causative agents are *Mycobacterium leprae* and *Mycobacterium lepromatosis*. It affects the upper respiratory tract specifically nerves and the mucosa. The obvious signs and symptoms are the skin lesions which can be damaging to the skin and nerves if it is untreated.

**Leptospirosis**

Leptospirosis is also called as the Weil’s syndrome, Rat catchers’ Yellow, 7-day fever, Bragg fever, Pretibial fever and others where it affects the spleen and causes nephritis as well as jaundice. This is one of the infectious conditions where the transmission comes from animals to human beings caused by the *Leptospira* family.

**Listeriosis**

This is an infectious disease that mostly attacks immunocompromised individuals from infancy to elderly. The causative agent of Listeriosis is the *Listeria monocytogenes* which is a

gram positive bacterium where the signs and symptoms include muscle pain, fever, vomiting and it affects 1 in every 5 persons.

### **Lyme disease**

Lyme disease is an infectious tick-borne disease. It is caused by different bacteria in the genus *Borrelia*. Mainly there is an erythema or a circular skin rash which can later complicate the organs like the heart, the joints and the brain.

### **MRSA**

This means methicillin-resistant staphylococcus aureus. The bacteria are referred to as the “flesh-eating bacteria” because in MRSA it affects and destroys the skin. There is great weight loss and depletion of the muscles because the bacteria eat up the human flesh.

### **Pertussis**

Pertussis is also called as the whooping cough. This is caused by bacteria called *Bordetella pertussis* where the cough starts out mildly and then becomes severe and high pitched. This mostly affects children and babies where when they breathe after coughing hard causes the whooping sound.

### **Pneumococcal pneumonia**

This is a kind bacterial pneumonia where it affects the upper respiratory tract but it can also affect other parts of the body like the lungs, blood, nervous system and the middle ear if not treated. The causative agent is the streptococcus pneumonia which attacks children and adults.

### **Rocky Mountain spotted fever**

It is a very lethal kind of bacterial infection that is caused by *Rickettsia rickettsii*. The mode of transmission is through vector-like ticks. Once the person is bitten by the tick, infection starts and shows signs and symptoms like muscle pains, headache and fever.

### **Salmonellosis**

Salmonellosis affects the gastrointestinal system where the causative agent is the *Salmonella* bacteria. This condition happens when ingesting infected food like poultry, beef, eggs, chicken and even fruits and vegetables. There are abrupt signs and symptoms like fever, diarrhea, and abdominal cramps within 12 to 72 hours.

### **Scarlet fever**

Scarlet fever is caused by the *Streptococcus pyogenes* where the most obvious sign and symptom is the strawberry appearance of the tongue. It becomes bright red with fever and sore throat and should be managed right away with antibiotics. The exotoxins released by the bacteria are fatal if not treated right away.

**Shigellosis**

This is a food-borne bacterial infection caused by the Shigella bacteria. This is also called as the Marlow syndrome or bacillary dysentery where it causes abdominal pain, cramps, fever, diarrhea, pus or mucus in the stool or even blood in the stool.

**Syphilis**

This is another sexually transmitted infection caused by Treponema pallidum. The syphilis happens through sexual contact where the signs and symptoms depend on the stages (primary to tertiary) the patient is in.

**Tetanus**

Is a serious condition caused by claudridium tetanii. The bacteria come from soil, manure or dusts that enter through an open wound. This will cause tingling of muscles and even leads to lock-jaw and patients can soon die of suffocation if not promptly treated.

**Trachoma**

This bacterial infection is caused by Chlamydia trachomatis which infects the eye through body contact or secretion. The contaminated objects like towels can cause the bacteria to enter the eye and leads to infection.

**Tuberculosis**

This is an infection that affects the respiratory system specifically the lungs through the causative agent- Mycobacterium tuberculosis. The bacteria may also affect other parts of the body like TB of the stomach or bones. A patient experiences chronic cough with or without sputum. Sometimes it is accompanied by blood-tinged sputum with fever and night sweats

**Typhoid fever**

Typhoid fever is a food-borne infectious disease where the mode of transmission is through the fecal-oral route. This is caused by Salmonella enteric where a person eats a contaminated food (feces). This is also called as the gastric fever or abdominal typhus, infantile intermittent fever or pythogenic fever.

**Viral infections****AIDS**

AIDS stands for acquire immunodeficiency syndrome where it mainly attacks the body's immune system and once this is down, opportunistic infections happen. AIDS is a severe form of HIV or human immunodeficiency virus and it is transmitted mostly through sexual intercourse, blood transfusions which are contaminated, mother to child transfer during pregnancy, breastfeeding and in rare instances pricking of needles.

**Chicken pox**

Chicken pox is caused by the varicella virus where it is transmitted through airborne. It mostly affects children but it can also affect adults. The usual signs and symptoms include fever, headache, itchy rashes that looks like blisters and it usually seen in the trunk, scalp and on the face.

**Common colds**

Medical term for common colds include rhinopharyngitis, acute coryza, or nasopharyngitis. This affects the upper respiratory system like the nose, pharynx and the throat. The signs and symptoms include cough, runny nose or colds, sore throat and sometimes fever.

**Dengue fever**

This viral infectious disease is caused by *Aedes aegypti* and those in the genus *Aedes*. This fever usually happens in tropical areas where signs and symptoms include skin rashes, joint pains, intermittent fever and headache. It can lead to dengue hemorrhagic fever since the platelet goes down and there is a risk of bleeding involved.

**Ebola hemorrhagic fever**

This is a fatal condition where the virus mainly responsible for the fever is the *Foloviridae*. This is common in the Philippines and the virus can be passed from animals to human beings. The infection process may also spread through droplet transmission when the body fluids of the infected person enter the body.

**Hepatitis**

Is an inflammation of the liver caused by different group of viruses that affects the liver. There are different kinds of hepatitis ranging from A to E but the common ones are hepatitis A, B and C.

**Herpes zoster**

This condition is also called as shingles where the viruses cause painful skin rashes and blisters in selected areas of the body. The blisters or rashes are often in stripe and this is associated with the varicella zoster virus and even chickenpox.

**Influenza**

This is also called as flu caused by the influenza virus. This is a contagious illness where it usually affects children and some adults. The usual signs and symptoms include fever, chills, runny nose, sore throat, weakness, loss of appetite and the like.

**Measles**

This is an infectious disease caused by the *Morbillivirus* that affects the respiratory system. This condition is also called as morbilli where it can affect through droplet or transmission for the affected person. Erythematous rash, fever, cough, runny nose and red eyes are the usual signs and symptoms of the disease

**Mumps**

Mumps is also called as epidemic parotitis where it is caused by the mumps virus. This is a condition where the parotid gland which is one of the salivary glands is inflamed. This can also cause orchitis or the inflammation of the testicles where it can cause infertility if not promptly treated.

**Poliomyelitis**

Poliomyelitis is also called as infantile paralysis where the mode of transmission is through the fecal-oral route. The virus enters the body and it affects the central nervous system causing muscle weaknesses, flaccid paralysis and even destroys the motor neurons. This disease shows now symptoms to more than 90% off the affected individuals.

**Rabies**

Rabies is a viral disease where it causes encephalitis or inflammation of the brain because of the virus from the warm-blooded animals. The transmission is from animal to humans through animal bites.

**Viral encephalitis**

This is an infectious disease where there is inflammation of the brain because of a virus. This mostly happens as an effect of any acute infection caused by rabies virus, poliovirus, measles, and other viruses.

**West Nile virus**

This type of disease is caused by the virus in the Flaviviridae family. The mode of transmission is through a bite from mosquitoes and it appears asymptomatic in human beings infected with the disease

**Yellow fever**

This is a hemorrhagic disease that is caused by the Flaviviridae family. Yellow fever mostly affects in tropical and sub-tropical countries like South America and Africa.

**Fungal infections****Candidiasis**

This is a kind of fungal infection where it is caused by the candida group or yeast. Candidiasis is also called as thrush where it affects the mouth and vagina but the yeast becomes systemic which can be a cause for systemic diseases.

**Cryptococcosis**

This is a fatal fungal disease where it is caused by the crptococcus neoformans and the Cryptococcus gattii. This is an opportunistic disease mostly happening in patients with HIV/AIDs and is acquired through inhalation.

**Histoplasmosis**

Histoplasmosis is a fungal infection caused by the *Histoplasma capsulatum*. It is also called as Darling's disease or the Cave disease where the signs and symptoms show about 2 weeks after exposure. This is fatal when not treated promptly.

**Tinea pedis**

Tinea pedis is also called as athlete's foot where it affects both feet of the patient. The feet appear to be flaky, scaling and very itchy caused by the fungi called *Trichophyton*. This is mostly transmitted when walking in barefoot in public bathhouses and showers

**Parasitic infection****African trypanosomiasis**

The Human African Trypanosomiasis is caused by *Trypanosoma brucei*. This is a protozoa that is found in the tsetse fly where it serves as the vector of the microorganism. The fly bite causes the introduction of the protozoa to the human body where adverse signs and symptoms are experienced. This is also called as the sleeping sickness or African lethargy.

**Amoebiasis**

This is a gastrointestinal protozoal infection caused by the *Entamoeba histolytica*. A person with amoebiasis may be asymptomatic or the case becomes latent until it affects the person again. The usual signs and symptoms include dysentery, mild diarrhea, blood and mucus in the stool.

**Ascariasis**

Ascariasis is also a protozoal infection where it is caused by a parasite called *Ascaris lumbricoides*. The infection happens through the fecal-oral route where there is ingestion of food with contamination like feces with the ascaris eggs. The larvae will then hatch and multiply in the intestine but it will also reach other parts of the body like the respiratory tract or lungs.

**Babesiosis**

This is a condition wherein it is caused by the genus *Babesia* which is blood-sucking assassin bugs and shows signs and symptoms of the malaria bug. This is a rare condition that the affected individuals only get this when travelling into areas where babesiosis is endemic.

**Clonorchiasis**

This is caused by the Chinese liver fluke or the *Clonorchis sinensis*. The mode of transmission is through the oral-fecal route where flukes are passed through the fecal matter and then the eggs are batched in the mollusks. This condition happens when the mollusk are undercooked and ingested.

**Cysticercosis**

Is a protozoan infectious disease caused by the fecal-oral mode of transmission. The causative agent is called the *Taenia solium* or commonly called as the pork tapeworm. This affects the gastrointestinal system as well as the brain

**Dracunculiasis**

Dracunculiasis is a condition that affects the subcutaneous tissues of a person or animals like dogs, cats, cattle or horses. This is also called as the guinea worm disease where it is caused by the *Dracunculus medinensis*. Patients with this illness present a very painful and burning sensation blister in their lower extremities.

**Enterobiasis**

The enterobiasis is also called as the pinworm infection where the causative agent is the *Enterobius vermicularis*. This is a parasite that is transmitted through the fecal-oral route where an individual ingest the eggs of the pinworm in contaminated food. The most common symptom is the itching of the anus.

**Echinococcosis**

This is a kind of parasitic disease is transmitted through the oral-fecal route and it affects both animals and human beings. *Echinococcus* is a kind of tapeworm and the *Echinococcus granulosus* is the most common kind of parasite affects the human beings.

**Fascioliasis**

The fascioliasis is transmitted through the oral-fecal route where the causative agent is the *Fasciola hepatica* and the *Fasciola gigantica*. These are found in domestic animals which serve as host such as the sheep, pigs, cattle donkeys and others. When these animals are not thoroughly cooked, it will infect the human beings.

**Filariasis**

Filariasis occurs in tropical countries where the nematodes or the ringworm in the *Filaroidea* family infects the individual through vector transmission. The mosquitoes and the black flies are usually the vector and when it bites the human being the eggs of the nematodes are released into the lymphatic system.

**Giardiasis**

Giardiasis is a parasitic infection where it causes diarrhea and other gastrointestinal problems because of the microorganism called *Gardia Lamblia*. This is also called as the beaver fever where this can be transmitted via different route like person-to-person, through a vector or water-borne infections.

**Hymenolepiasis**

This is a kind of infection where it is caused by tapeworms mainly the *Hymenolepis nana* and the *Hymenolepis diminuta*. Most of the infections happen in tropical countries where the mode of transmission is through oral-fecal route.

**Malaria**

Is a kind of parasitic infection where the parasite is the genus *Plasmodium*. Infection happens through vector transmission where the parasite is carried by the mosquito and bites a human being. The parasite attacks the liver and then in the red blood cells causing headache and fever. If this is not treated, it can cause death. Most microorganisms causing malaria include *Plasmodium falciparum*, *Plasmodium vivax*, *Plasmodium ovale* and others.

**Metagonimiasis**

Metagonimiasis is a parasitic infection where it is caused by *Metagonimus yokagawai* which is an intestinal nematode. The infection is transmitted through the oral-fecal route.

**Onchocerciasis**

This parasitic infection is also called as the river blindness or the Robles' disease. The onchocerciasis is caused by the *Onchocerca volvulus* which is the leading cause of blindness. This condition is transmitted through vector transmission through the black fly. Once a person is bitten, the larvae of the nematodes spread systemically and affect the eye.

**Scabies**

Scabies is a contagious infection where the parasite that causes it is the *Sarcoptes scabiei*. This is a tiny tick and is regarded by the WHO as a water-related disease. It causes severe itching on the skin.

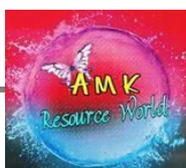
**Schistosomiasis**

This is also called as the bilharzias or snail fever. The disease is caused by genus *Schistosoma* which are parasitic worms where they live in snails. A person is infected when they are exposed to contaminated water or snails which usually happen in developing countries where sanitation is poor.

**Trichomoniasis**

Trichomoniasis is a sexually transmitted disease caused by *Trichomonas vaginalis*. This is also called as the "trich" where it affects the genito-urinary tract.

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