

LIST OF BACTERIAL AND VIRAL DISEASES IN HUMANS

S. No.	Disease	Causative Agent	Transmission
1.	Acinetobacter infections	<i>Acinetobacter baumannii</i>	Direct contact and may be found on skin or in food, water, or soil. It may also be found in hospitals.
2.	Actinomycosis	<i>Actinomyces israelii</i> , <i>Actinomyces gerencseriae</i> and <i>Propionibacterium propionicus</i>	Person-to-person via contact of the oral flora. Incubation period: From several days to several years
3.	Anthrax	<i>Bacillus anthracis</i>	By contact with farm animal hair, hides or excrement.
4.	Botulism (and Infant botulism)	<i>Clostridium botulinum</i>	Through contamination of food (food poisoning) Incubation period: Infants: 3-30 days Children and adults: 12-72 hours
5.	Brucellosis	<i>Brucella</i> genus	By direct contact or untreated/contaminated milk of animals
6.	Cat-scratch disease	<i>Bartonella henselae</i>	Bite or scratch of infected cat. Contact with cat saliva on broken skin or the white of the eye. Incubation period: 7 to 14 days or 2 months.

7.	Chlamydia (Chlamydia)sis)	<i>Chlamydia trachomatis</i>	By vaginal, anal, or oral sex. It can also be passed from an infected mother to her baby during vaginal childbirth
8.	Cholera	<i>Vibrio cholerae</i> (<i>Vibrio comma</i>)	Through contaminated food and water. Incubation period: 6 hrs to 3 days
9.	<i>Clostridium perfringens</i> infection (Food poisoning)	<i>Clostridium perfringens</i>	Beef, Poultry, Gravies Incubation period: 6-24 hours
10.	Diphtheria	<i>Corynebacterium diphtheriae</i> (Gram +ve non-capsulated)	Attacks children from 1-5 years of age Incubation period: 2-4 days
11.	Epidemic typhus (Jail fever, Camp fever)	<i>Rickettsia prowazekii</i> (louse-borne bacteria)	Feeding on a human who carries the bacillus infects the louse. <i>R. prowazekii</i> grows in the louse's gut and is excreted in its feces. The disease is then transmitted to an uninfected human who scratches the louse bite (which itches) and rubs the feces into the wound. Incubation period: 1-2 weeks.
12.	Gonorrhoea	<i>Neisseria gonorrhoeae</i>	Through sexual contact (venereal disease)

13.	Leprosy (Hansen's disease)	<i>Mycobacterium leprae</i> and <i>Mycobacterium lepromatosis</i> (Gram +ve, rod shaped)	By direct contact with infected person. Incubation period: 1-5 years
14.	Leptospirosis (Weil's syndrome, canicola fever, canefield fever, nanukayami fever, 7-day fever, Rat Catcher's Yellows, Fort Bragg fever)	<i>Leptospira</i> genus	Through rodents etc. It is often transmitted by animal urine or water containing animal urine. Incubation period: 4-14 day
15.	Lyme disease (Lyme borreliosis)	<i>Borrelia burgdorferi</i> and other <i>Borrelia</i> species	By the bite of infected ticks belonging to the genus Ixodes ("hard ticks").
16.	Meningitis	<i>Streptococcus pneumoniae</i> ; <i>Neisseria meningitidis</i>	It usually occurs when bacteria enter the bloodstream and migrate to the brain and spinal cord. But it can also occur when bacteria directly invade the meninges, as a result of an ear or sinus infection, or a skull fracture, or rarely, after some surgeries.
17.	Pneumonia	<i>Mycoplasma pneumoniae</i>	From person to person.
18.	Pertussis (Whooping Cough)	<i>Bordetella pertussis</i>	By contact with airborne discharges from the mucous membranes of infected people. Incubation period: 10-15 days

19.	Plague	<i>Yersinia (Pasteurella) pestis</i>	By rats and other rodents. Vector is a flea, <i>Xenopsylla cheopsis</i> which feeds on infected rodents and may bite man.
20.	Scarlet fever (Scarlatina)	<i>Streptococcus pyogenes</i>	Infection may occur through blood stream or skin and underlying tissues.
21.	Shigellosis (Bacillary dysentery)	<i>Shigella</i> genus	From one infected person to the next. From stool.
22.	Syphilis	<i>Treponema pallidum</i>	Through sexual contact (VD). Also caused by kissing and using clothing of infected persons. Incubation period: 15-20 days
23.	Tetanus (Lockjaw)	<i>Clostridium tetani</i> (Gram +ve)	CNS of man contaminated with dust, soil or water. Incubation period: 5-12 years
24.	Tuberculosis	<i>Mycobacterium tuberculosis</i>	By contact, i.e. coughing, sneezing, spitting, talking etc. Incubation period: 2 weeks
25.	Typhoid fever	<i>Salmonella typhi</i>	Ingestion of food or water adulterated with feces of an infected person. Incubation period: 4 weeks

Viral Diseases

S. No.	Disease	Causative agent	Transmission
1.	AIDS (Acquired immune deficiency syndrome)	HIV (Human immunodeficiency virus)	In homosexuals or bisexual men, drug users who use common syringes, babies born mothers with AIDS, hemophiliacs and persons with coagulation disorders. (intimate contact of body secretions such as blood, semen, saliva, stool & urine) Incubation Period: 29 months in adults, 12 months in children.
2.	Avian flu (H5N1)	H5N1 virus	Contact with infected poultry. Air borne spread
3.	Chickenpox (Varicella)	Varicella zoster virus (VZV) - also known as human herpes virus 3 (HHV-3)	Host: generally children of 10 years. Infection is by contact Incubation Period: 14-16 days
4.	Chikungunya	Chikungunya (CHIK) Virus	<i>Aedes</i> Mosquito Biting Incubation Period: 3-5 days
5.	Common cold	Rhino viruses and Corona viruses	Disease of the upper respiratory system (nose and throat). Lasts for 3-7 days

6.	Dengue fever	Dengue viruses (DEN-1, DEN-2, DEN-3 and DEN-4) – Flavi viruses	<p>Vector: <i>Aedes aegypti</i> mosquito</p> <p>Incubation period:</p> <p>4-6 days</p>
7.	Epstein-Barr Virus Infectious Mononucleosis	Epstein- Barr Virus (EBV) or Cytomegalovirus (CMV)	<p>Through saliva or blood, often through kissing, or by sharing a drinking glass, an eating utensil or a needle.</p> <p>· Also spread through coughing or sneezing.</p>
8.	German measles (Rubella)	Rubella virus	<p>Contagious via nose or throat</p> <p>Incubation period:</p> <p>2-3 weeks</p>
9.	Hepatitis A	Hepatitis A virus	<ul style="list-style-type: none"> • Contaminated food, drink and eating utensils • Hands contaminated via contact with nappies, toys or towels soiled with faeces from an infected person • Oral/anal sexual contact • Sewage-contaminated water or shellfish • Travel to countries where hepatitis A is endemic • Injecting and non-injecting drug use.

10.	Hepatitis B	Hepatitis B virus	<ul style="list-style-type: none"> • Blood-to-blood • Sharing injecting equipment • Unprotected sex • Mother-to-baby transmission at or around the time of birth • Child-to-child contact through open sores and wounds • Tattooing or body piercing • Household contact – sharing razors and toothbrushes
11.	Hepatitis C	Hepatitis C virus	<ul style="list-style-type: none"> • Blood-to-blood contact • Sharing injecting equipment • tattooing, body piercing or acupuncture
12.	Hepatitis D	Hepatitis D virus	<ul style="list-style-type: none"> • Blood-to-blood contact • Most infections in Australia are associated with: <ul style="list-style-type: none"> • immigration from a high prevalence country (a country where hepatitis B and D are more common) • sharing injecting equipment

13.	Hepatitis E	Hepatitis E virus	<ul style="list-style-type: none"> • Faeces containing the virus are transferred to another person's mouth. • Travel to countries where hepatitis E is endemic. • From pregnant woman to her fetus • Through infected blood transfusion
14.	Herpes simplex	Herpes simplex virus 1 and 2	<p>HSV-1 is mainly transmitted by oral-to-oral contact to cause oral herpes (which can include symptoms known as "cold sores"), but can also cause genital herpes.</p> <p>HSV-2 is a sexually transmitted infection that causes genital herpes.</p>
15.	Herpes Zooster	Varicella Zooster Virus	Very rare in children and adults, but its incidence is high in the elderly, as well as in any age group of immunocompromised patients.
16.	Influenza (flu)	Orthomyxoviridae family (Influenza virus A & B)- RNA virus	<p>Infection by air (nasal discharge)</p> <p>Incubation period: 24 to 72 hours</p>
17.	Measles(Rubeolla)	Rubeola or Measles virus	<p>Contagious & droplet infection.</p> <p>Infection through air</p> <p>Incubation period: 10-12 days</p>

18.	Mumps	Mumps virus	Contagious & droplet infection. In children Incubation period: 10-25 days
19.	Poliomyelitis	Polio virus (Picorna virus)	Direct and oral. Hosts: Man and monkey. Enters body through contaminated food and water. Incubation period: 14-30 days
20.	Rabies	Rhabdo virus	Host: man Vectors: Rabid dogs, vampire bats, jackals and wolves (in Iran) Incubation period: 2-6 weeks
21.	SARS (Severe Acute Respiratory Syndrome)	SARS corona virus	Close contact with respiratory droplets containing the SARS virus
22.	Smallpox (Variola or Variola vera)	Variola major	Contagious & droplet infection Host: Man. Infection occurs at the time of falling of scabs. Incubation period: 10-14 days
23.	Swine Flu (H1N1) or Pig Influenza	H1N1 Virus	Contact with pigs, cough & sneeze of infected person
24.	Yellow fever	Arbovirus	Transmitted by mosquitoes especially <i>Aedes aegypti</i>