

DNA Pathogen Frequencies

Pathogens Associated With Common Human Diseases



This page lists human diseases and associated pathogens. Documentary links to online medical and research references are provided at the end of each entry. The long numbers are accession numbers of research articles available at PubMed. Click on a linked number to read an abstract (summary) of the article.

It is not possible to list all pathogens that are capable of causing certain conditions, such as pneumonia, food poisoning, meningitis, urine infections, respiratory viruses, etc. For such conditions, known common pathogens are shown. In some instances, newly emerging pathogens are still being researched and verified to cause disease.

**This material provides disease information
and references.**

**** It is not a listing of available frequency
sets. ****

For that list, please go here.

The information below is not intended to be used for
diagnostic purposes.

For more details, please see the [disclaimer](#).

**Name of Condition ... Associated Pathogen(s)
... PubMed or other reference**

A

Acne ... Propionibacterium acnes; Staphylococcus species;
Malassezia species ... [10809844](#)

Actinomycosis ... Actinomyces species (numerous) ...
[eMedicine](#) [PMC4297926](#) [18222714](#) [25788515](#)

African sleeping sickness ... Trypanosoma brucei gambiense
(chronic variety, 95% of infections);

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African tick-bite fever ... Rickettsia africae ... [20233665](#)
[11357153](#)

Alveococcosis (alveolar echinococcosis) ... Echinococcus
multilocularis ... [20582310](#) [18075150](#)

Alzheimer's Disease (1) ... Human herpesvirus 1 (aka Herpes
simplex 1); Chlamydia (Chlamydia) pneumoniae; Simian
virus 40 ... [17980964](#) [15172740](#) [17052268](#) [17360920](#)

Alzheimer's disease (2) ... Treponema bacterial species;
Fungal species, including Candida species ... [21816039](#)
[26385886](#) [25932012](#) [26468932](#) [25125470](#)

Amyotrophic lateral sclerosis (ALS, Lou Gehrig's disease,
motor neuron disease) ... HTLV-1 (Human t-cell
lymphotropic virus type 1); Human foamy virus (also known
as Human spumaretrovirus); Human endogenous retrovirus
K (HERV-K); Mycoplasma fermentans; Echovirus 7 ...
[10636120](#) [12383408](#) [11175327](#) [8392664](#) [26424568](#)
[PMC6091006](#)

Anaplasmosis (also known as human granulocytic
ehrlichiosis) ... Anaplasma phagocytophilum ... [eMedicine](#)
[CDC](#)

Angiostrongyliasis ... Angiostrongylus cantonensis (rat
lungworm), Angiostrongylus costaricensis (American rat
lungworm) ... [CDC](#)

Anthrax ... Bacillus anthracis ... [CDC](#)

Arthritis (rheumatoid and other types) ... Mycoplasma
pneumoniae, Mycoplasma arthritidis, Mycoplasma
fermentans, Mycoplasma hominis, Mycoplasma penetrans ...
[17122006](#) [10685797](#) [10402069](#)

Arthritis (rheumatoid) ... Mycoplasma species: arthritidis,
fermentans, hominis, pneumoniae, penetrans; Human
herpesvirus 4 (also known as Epstein-Barr virus); Chlamydia
trachomatis ... [2773570](#) [11752504](#) [17530675](#) [10910176](#)
[10402069](#)

Ascariasis ... Ascaris suum (also known as Ascaris
lumbricoides or Ascaris lumbricoides suum) ... [eMedicine](#)
[eMedicine #2](#)

Aspergillosis ... Aspergillus fumigatus, Aspergillus niger
(most common); Aspergillus flavus, Aspergillus clavatus,
Aspergillus species ... [eMedicine](#)

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rubrum (most common); Trichophyton mentagrophytes, Epidermophyton floccosum ... [eMedicine](#)

Atopic eczema, see Eczema, atopic

Australian tick typhus (also known as Queensland tick typhus) ... Rickettsia australis ... [Australia](#)

Autism ... Desulfovibrio species, Bacteroides vulgatus, Clostridium species ... [20603222](#) [22202440](#) [21592674](#)
[12173102](#)

B

Babesiosis ... Babesia microti, Babesia divergens (especially in Europe), Babesia duncani (formerly known as WA1), Babesia sp. EU1 (provisionally named Babesia venatorum), Babesia odocoilei, possibly other Babesia species ... [24533312](#)
[19210953](#) [11113258](#) [16513280](#) [PMC8228967](#)

Bacillary angiomatosis ... Bartonella henselae, Bartonella quintana ... [eMedicine](#)

Bartonellosis ... Bartonella henselae, Bartonella quintana (louse-transmitted), Bartonella bacilliformis (present in Peru, Ecuador, & Columbia), Bartonella rochalimae, Bartonella vinsonii subspecies arupensis, Bartonella vinsonii subspecies berkhoffii, Bartonella clarridgeiae, Bartonella elizabethae, Bartonella grahamii, Bartonella washoensis, other species of Bartonella (including B. alsatica, B. melophagi) ... [eMedicine](#)
[19961681](#) [17553243](#) [16704774](#) [15184475](#) [19331727](#)
[GalaxyDiagnostics](#)

Benign prostate hyperplasia (BPH) ... Propionibacterium acnes ... [17850358](#) [17006718](#) [15879794](#)

Bilharzia (also known as schistosomiasis or snail fever) ... Schistosoma mansoni, Schistosoma hematobium, Schistosoma japonicum, Schistosoma intercalatum, Schistosoma mekongi ... [eMedicine](#) [eMedicine #2](#)

Black death ... Yersinia pestis ... [20949072](#)

Blastocystosis ... Blastocystis species subtypes 1-4 (the most common subtypes found in humans) ... [PMC9816782](#)
[PMC6664531](#) [PMC5657060](#) [21340563](#) [22350386](#)
[19953268](#) [29415532](#)

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Boutonneuse fever (also known as Mediterranean Spotted Fever) ... *Rickettsia conorii* ... [eMedicine](#)

Brill-Zinsser disease ... *Rickettsia prowazekii* ... [MedlinePlus](#)

Brucellosis (also known as Malta fever, undulant fever, Bang's disease) ... *Brucella melitensis*, *Brucella abortus*, *Brucella suis*, *Brucella canis* ... [eMedicine](#) [APHIS](#)

Bubonic plague ... *Yersinia pestis* ... [CDC](#)

Buruli ulcer (also known as Bairnsdale ulcer) ... *Mycobacterium ulcerans* ... [WHO](#)

C

Cancer, adult T-cell leukemia ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#)

Cancer, anorectal - squamous cell carcinoma ... Human papillomavirus type 16 ... [12861066](#)

Cancer, B-cell lymphoma ... Avian leukosis virus, Human herpesvirus 4 (also known as Epstein-Barr virus), Simian virus 40 ... [18024587](#) [9209336](#) [7655018](#) [21399869](#)

Cancer, bladder ... *Schistosoma haematobium* ... [9880476](#)
[25566326](#)

Cancer, brain tumors (various types) ... BK virus, Simian virus 40 ... [9989448](#) [9776222](#)

Cancer, brain, astrocytoma ... Simian virus 40 ... [9989448](#)

Cancer, brain, choroid plexus ... Simian virus 40 ... [9989448](#)
[9776221](#) [8760294](#)

Cancer, brain, ependymoma ... Simian virus 40 ... [9989448](#)
[9776221](#) [8760294](#)

Cancer, brain, glioblastoma ... Human herpesvirus 5 (cytomegalovirus), Simian virus 40, Human papillomavirus types 16 & 18 ... [21900396](#) [18351367](#) [9989448](#) [25685179](#)

Cancer, breast ... Human/mouse mammary tumor virus, Human endogenous retrovirus K (HERV-K), Bovine leukemia virus, Simian virus 40, Human herpesvirus 5 (Cytomegalovirus), Avian erythroblastosis virus (with breast-relevant oncogenes) ... [11245493](#) [17875739](#) [17931409](#)

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Cancer, Burkitt's lymphoma ... Human herpesvirus 4 (Epstein-Barr virus) ... [18515742](#)

Cancer, cervical ... Human papillomavirus high-risk types: 16, 18 (most common); 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 68, 82 (less common). Human papillomavirus low-risk types: 6, 11, 26, 40, 42, 53-55, 61, 62, 64, 66, 67, 69-73, 81-84, 89 ... [25124771](#) [25857319](#)

Cancer, cholangiocarcinoma ... Clonorchis sinensis, Opisthorchis viverrini, Opisthorchis felinus ... [15258092](#)
[25566326](#) [21603286](#)

Cancer, colon / colorectal ... JC virus, BK virus, Simian virus 40; Human papillomavirus, especially type 16; Streptococcus gallolyticus (formerly called Streptococcus bovis biotype 1); Fusobacterium nucleatum, other Fusobacterium species ... [10377441](#)

[12460931](#) [15837733](#) [18505087](#) [17321098](#) [23459622](#)

Cancer, cutaneous T-cell lymphoma ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#)

Cancer, esophageal - squamous cell carcinoma ... Human papillomavirus types 16 & 18 ... [15693850](#) [17080019](#)
[21969503](#)

Cancer, gastric MALT (mucosa-associated lymphoid tissue) lymphoma ... Helicobacter pylori ... [17727457](#)

Cancer, head & neck squamous cell carcinoma ... Human papillomaviruses (HPVs), especially type 16 ... [12374687](#)
[12569557](#) [20226055](#) [23374258](#) [26266234](#)

Cancer, Hodgkin's lymphoma ... Human herpesvirus 4 (Epstein-Barr virus); Human herpesvirus 6 ... [18515742](#)
[17607791](#)

Cancer, Kaposi's sarcoma ... Human herpesvirus 8 ... [9665995](#) [15660651](#) [17627810](#)

Cancer, kidney (renal) / urinary tract ... BK virus ... [11418879](#)
[17511691](#)

Cancer, liver (hepatocellular carcinoma) ... Helicobacter pylori, Helicobacter species (possibly Helicobacter hepaticus); Hepatitis C virus; Human endogenous retrovirus K (HERV-K); Hepatitis B virus ... [18254774](#) [15563667](#) [1668882](#)
[11148003](#) [18504216](#) [PMC5192314](#) [eMedicine](#)

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Cancer, melanoma ... Human endogenous retrovirus K ...
[14695188](#) [18198388](#) [16452225](#) [19167380](#) [PMC5270369](#)

Cancer, Merkel cell carcinoma ... Merkel cell polyomavirus ...
[18202256](#)

Cancer, mesothelioma ... Simian virus 40 (SV40) ...
[23071320](#) [22677986](#) [17875683](#)

Cancer, mycosis fungoides ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#) [eMedicine #2](#) [7860737](#)

Cancer, nasal inverted papilloma ... Human papillomavirus types 16 and 18 ... [17727781](#)

Cancer, nasopharyngeal carcinoma ... Human herpesvirus 4 (Epstein-Barr virus) ... [eMedicine](#)

Cancer, non-Hodgkin's lymphoma ... Human herpesvirus 4 (Epstein-Barr virus), Simian virus 40 ... [18282597](#) [21475447](#)
[15202523](#) [21399869](#)

Cancer, osteosarcoma ... Simian virus 40 ... [9776222](#)
[8760294](#)

Cancer, ovarian ... Human papillomavirus type 16, Human/mouse mammary tumor virus ... [12915876](#)
[16398227](#) [3013624](#) [8494710](#)

Cancer, pancreatic ... Human endogenous retrovirus K (HERV-K) ... [PMC5777511](#)

Cancer, penile - squamous cell carcinoma ... Human papillomavirus types 16 & 18 ... [17925550](#) [eMedicine](#)

Cancer, primary effusion lymphoma ... Human herpesvirus 8, Human herpesvirus 4 (Epstein-Barr virus) [18628086](#)
[15613351](#)

Cancer, prostate ... Propionibacterium acnes, BK virus, JC virus; Human endogenous retrovirus K (HERV-K); Human endogenous retrovirus E (HERV-E); Human papillomavirus, especially types 16 & 18 ... [16563091](#) [18160432](#) [18392798](#)
[12430138](#) [PMC3705622](#) [PMC4146419](#) [12833471](#)

Cancer, Sezary syndrome ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#) [eMedicine #2](#) [7860737](#)

Cancer, sinonasal carcinoma ... Human herpesvirus 4 (Epstein-Barr virus) ... [7777348](#) [7661287](#)

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Cancer, skin - squamous cell carcinoma (see also Cancer, head & neck squamous cell carcinoma) ... Human papillomavirus types 5, 8, 15, 17, 38, 50, 88, 95 ... [18548109](#) [16537831](#)
[18503604](#) [17935140](#)

Cancer, stomach (gastric carcinoma) ... Helicobacter pylori ...
[17727457](#) [17007010](#) [16847081](#)

Cancer, testicular ... Human herpesvirus 4 (Epstein-Barr virus), Human herpesvirus 5 (Cytomegalovirus) ... [19024602](#)
[10360811](#)

Cancer, thyroid anaplastic carcinoma ... Simian virus 40 ...
[12574230](#)

Cancer, thyroid papillary carcinoma ... Simian virus 40 ...
[12574230](#)

Cancer, tonsil ... Human papillomavirus type 16, Human herpesvirus 4 (Epstein-Barr virus) ... [16991119](#) [15608419](#)
[12447611](#) [11765441](#)

Candidiasis ... Candida albicans, Candida parapsilosis, other Candida species ... [eMedicine](#) [18854483](#) [19821642](#)

Carrion's disease (also known as Oroya fever, Verruga peruana) ... Bartonella bacilliformis ... [eMedicine](#) [NIH](#)

Castleman's disease, multicentric ... Human herpesvirus 8 ...
[BioMedCentral](#) [18628086](#)

Cat flea typhus (also known as flea-borne spotted fever) ... Rickettsia felis ... [PubMedCentral](#) [27155905](#)

Cat scratch fever ... Bartonella henselae ... [CDC](#)

Cellulitis ... Staphylococcus aureus, group A streptococci, other bacteria or fungi (less common) ... [eMedicine](#)

Cercarial dermatitis ... Schistosoma turkestanicum (also known as Orientobilharzia turkestanicum), Schistosoma spindale, Schistosoma indicum; Trichobilharzia szidati and other Trichobilharzia species; other organisms ... [21930247](#)
[32051431](#) [21660663](#) [CDC](#)

Chagas disease ... Trypanosoma cruzi ... [MedlinePlus](#) [CDC](#)

Chancroid ... Haemophilus ducreyi ... [eMedicine](#)

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Childbed fever (puerperal fever) ... Streptococcus pyogenes (group A strep); Streptococcus agalactiae (group B strep); other bacteria ... [6385721](#) [Bacteriology](#)

Chlamydia infection (genitourinary) ... Chlamydia trachomatis ... [eMedicine](#)

Cholera ... Vibrio cholerae ... [CDC](#)

Chronic fatigue syndrome ... HTLV-2 (Human T-cell lymphotropic virus type 2) ... [1672770](#)

Chronic obstructive pulmonary disease, see COPD below

Clonorchiasis ... Clonorchis sinensis ... [CDC](#) [15258092](#)

Coccidioidomycosis (also known as Valley fever, San Joaquin fever, desert fever, California fever) ... Coccidioides immitis, Coccidioides posadasii ... [Mayo](#) [eMedicine](#)

Cold sores (also known as fever blisters) ... Human herpesvirus 1 (also known as Herpes simplex 1); occasionally, Human herpesvirus 2 ... [WebMD](#)

Common Cold ... Rhinoviruses, Adenoviruses, Coronaviruses, Parainfluenza viruses, Respiratory syncytial virus, Metapneumovirus, Bocavirus ... [CDC](#) [CDC](#) [CDC](#)

Condyloma acuminatum (genital warts) ... Human papillomavirus types: 6, 11 (most common); type 2 (occasionally in children); also types 10, 30, 40-45, 51, 54 ... [23634957](#) [Textbook of Dermatology](#) [eMedicine](#) [emedtv](#) [19820442](#)

COPD (Chronic obstructive pulmonary disease) ... These pathogens are secondary to other causes: Haemophilus influenzae, Moraxella catarrhalis, Streptococcus pneumoniae ... [BioMedCentral](#) [15805181](#) [11292642](#)

Creutzfeldt-Jakob disease ... Spiroplasma mirum, other Spiroplasma species ... [17761489](#) [24423635](#) [22552100](#)

Crohn's disease ... Mycobacterium avium subspecies paratuberculosis (also known as Mycobacterium paratuberculosis); Ruminococcus gnavus ... [10189224](#) [17714674](#) [16207995](#) [21167058](#) [31182571](#)

Cryptococcosis ... Cryptococcus neoformans, Cryptococcus gattii ... [eMedicine](#)

DNA Pathogen Frequencies

Cyclosporiasis ... Cyclospora cayetanensis ... [CDC](#)

Cystic fibrosis ... Major pathogens secondary to this genetic disease: Pseudomonas aeruginosa, Stenotrophomonas maltophilia, Burkholderia cenocepacia (formerly, B. cepacia), Burkholderia multivorans, Alcaligenes xylosoxidans, Klebsiella species, Staphylococcus aureus, Haemophilus influenzae, Mycobacteria species (non-tuberculous); Fungi: Aspergillus fumigatus, Candida albicans ... [15752680](#)
[15516471](#) [16405721](#) [17693140](#) [19533713](#)

Cysticercosis ... Taenia solium, Taenia saginata, Taenia asiatica ... [eMedicine](#) [eMedicine #2](#) [17762788](#)

Cystitis (bladder infection), hemorrhagic or nonhemorrhagic ... Escherichia coli, Staphylococcus saprophyticus, Pseudomonas aeruginosa, Serratia marcescens, Enterococcus faecalis, Staphylococcus epidermidis; other bacteria including Klebsiella, Proteus, Enterobacter, and Ureaplasma species; BK virus ... [MedlinePlus](#) [InfectiousDisAdvisor](#)
[MedMicrobiology](#) [eMedicine](#)

D

Dandruff ... Most common: Malassezia restricta, Malassezia globosa; occasionally, Malassezia furfur ... [30108245](#)
[26298017](#) [23106637](#) [22232373](#) [MicrobeWiki](#)

Dengue fever ... Dengue virus (types 1-4) ... [CDC](#) [WHO](#)

Dental bacterial pathogens ... Actinobacillus actinomycetemcomitans, Fusobacterium nucleatum, Porphyromonas gingivalis, Prevotella intermedia (also known as Bacteroides intermedius); Streptococcus species: S. gordonii, S. mutans, S. sanguinis; Tannerella forsythensis (for sythia), Treponema denticola; see also Endodontic infection ... [Oralgen](#) [17720781](#) [17277061](#)

Diabetes, type 1 ... Coxsackievirus B type 4, Parechovirus B (also known as Ljungan virus) ... [32758075](#) [32927606](#)
[7897366](#) [17360338](#) [12376963](#) [28112573](#)

Dicrocoeliasis ... Dicrocoelium dendriticum, Dicrocoelium chinensis ... [CDC](#) [21929882](#) [21736477](#)

Diphtheria ... Corynebacterium diphtheriae ... [MedlinePlus](#)

Diphyllobothriasis (broad tapeworm infection) ...
Diphyllobothrium latum, Diphyllobothrium nihonkaiense ...

DNA Pathogen Frequencies

Ear infection (otitis media) ... Haemophilus influenzae, Streptococcus pneumoniae, Moraxella catarrhalis (formerly, Branhamella catarrhalis) ... [eMedicine](#) [1513611](#) [eMedicine #2](#)

Eastern equine encephalitis ... Eastern equine encephalitis virus ... [CDC](#) [eMedicine](#)

Echinococcosis ... Echinococcus multilocularis (causes alveolar echinococcus, also known as alveolar hydatid disease); Echinococcus granulosus (causes cystic echinococcus, also known as hydatidosis) ... [eMedicine](#) [eMedicine #2](#)

Echinostomiasis ... Echinostoma hortense, E. macrorchis, E. revolutum, E. ilocanum, E. perfoliatum ... [eMedicine](#)

Eczema, atopic ... Malassezia globosa, Malassezia sympodialis ... [22232373](#) [23341551](#)

Ehrlichiosis ... Ehrlichia chaffeensis, Ehrlichia canis, Anaplasma phagocytophilum, Neorickettsia sennetsu, Ehrlichia ewingii ... [16482227](#) [17114689](#) [10403852](#)

Elephantiasis ... Brugia malayi, Wuchereria bancrofti ... [WHO](#)

Encephalitis, Japanese ... Japanese encephalitis virus ... [CDC](#)

Encephalitis, La Crosse ... La Crosse virus ... [CDC](#) [9494831](#)

Encephalitis, St. Louis ... St. Louis encephalitis virus ... [CDC](#)

Endodontic infection ... Streptococcus species: S. mutans, S. gordonii, S. sanguinis (formerly sanguis); Fusobacterium species: especially F. nucleatum; Porphyromonas species: P. gingivalis, P. endodontalis; Dialister species: D. invisus, D. pneumosintes; Olsenella species: O. uli; Parvimonas micra (formerly known as Peptostreptococcus micros); Peptostreptococcus species: P. stomatis; Tannerella forsythia (also known as Tannerella forsythensis, formerly called Bacteroides forsythus); Treponema species: especially T. denticola; Enterococcus species: E. faecalis and E. faecium; Prevotella species: P. tannerae, P. melaninogenica, P. veroralis, P. nigrescens, P. denticola; Filifactor alocis; Campylobacter rectus; Capnocytophaga ochracea; other numerous oral bacteria ... [12202557](#) [16000454](#) [16585688](#) [eMedicine](#) [19828883](#)

DNA Pathogen Frequencies

Erysipelas ... Group A beta-hemolytic streptococci; other streptococcal bacteria ... [eMedicine](#)

Erythema infectiosum ... Human parvovirus B19 ... [eMedicine](#)

Exanthem subitum (also known as roseola, baby measles, sixth disease, roseola infantum) ... Human herpesvirus 6B (most common), Human herpesvirus 6A, Human herpesvirus 7 ... [eMedicine](#) [Mayo](#)

Eyelash mites ... Demodex brevis, Demodex folliculorum ... [eMedicine](#)

F

Fascioliasis ... Fasciola hepatica (common or sheep liver fluke); Fasciola gigantica (a liver fluke, causes "tropical fascioliasis") ... [eMedicine](#) [CDC](#)

Fasciolopsiasis ... Fasciolopsis buski (intestinal fluke) ... [eMedicine](#) [CDC](#)

Fever blisters (also known as cold sores) ... Human herpesvirus 1 (also known as Herpes simplex 1); occasionally, Human herpesvirus 2 ... [WebMD](#)

Fifth disease ... Human parvovirus B19 ... [eMedicine](#)

Filariasis ... Wuchereria bancrofti, Brugia malayi, Brugia timori, Onchocerca volvulus, Loa loa, Dirofilaria species ... [eMedicine](#)

Flea-borne spotted fever (also known as cat flea typhus) ... Rickettsia felis ... [PubMedCentral](#) [27155905](#)

Flesh-eating bacteria (also known as necrotizing fasciitis) ... Streptococcus pyogenes (group A strep), Vibrio vulnificus, Staphylococcus aureus ... [WebMD](#) [NEJM](#)

Flinders island spotted fever ... Rickettsia honei ... [Aust Publ Health](#)

Food poisoning ... Campylobacter jejuni, Clostridium botulinum, Clostridium perfringens, Salmonella typhimurium (also known as S. enterica serovar typhimurium), Staphylococcus species, Vibrio parahaemolyticus, Vibrio vulnificus ... [eMedicine](#) [11677609](#)
[eMedicine #2](#)

DNA Pathogen Frequencies

Gastroenteritis, viral ••• Caliciviruses: Norovirus, Norwalk virus; Rotavirus (especially in infants); Adenovirus types 40 and 41 (especially in children); Astrovirus ••• [eMedicine](#)
[PMC271331](#)

Gastroenteritis, bacterial ••• Most common: certain Salmonella species, especially Salmonella typhimurium & Salmonella enteritidis; Shigella species; pathogenic Escherichia coli; certain Campylobacter species (most common, C. jejuni, C. coli, C. upsaliensis) ••• [MedlinePlus](#)
[27337467](#) [PMC6143181](#) [PMC6861584](#) [PMC6750134](#)

Genital herpes ••• Human herpesvirus 2 (also known as Herpes simplex 2); occasionally, Human herpesvirus 1 ••• [eMedicine](#)

Genital warts ••• Human papillomavirus types 6, 11 (most common types) ••• [eMedicine](#) [eMedicine #2](#)

German measles (also known as Rubella or 3-day measles) ••• Rubella virus ••• [MedlinePlus](#) [CDC](#)

Glanders ••• Burkholderia mallei (formerly known as Pseudomonas mallei) ••• [CDC](#) [15377793](#)

Glaucoma ••• Helicobacter pylori ••• [12038941](#) [14576945](#)
[14975507](#) [17110054](#)

Gnathostomiasis ••• Most common: Gnathostoma spinigerum; other species of Gnathostoma ••• [eMedicine](#)

Gongylonemiasis ••• Gongylonema pulcrum ••• [29329982](#)

Gonorrhea ••• Neisseria gonorrhoeae ••• [eMedicine](#)

H

Haemophilus influenzae b (Hib) disease ••• Haemophilus influenzae type b (formerly, Pfeiffer's bacillus) ••• [Bacteriology](#)

Hand, foot and mouth disease ••• Most common: Coxsackievirus A16; less common viruses: Enterovirus 71, Coxsackievirus A6; sporadic occurrence: Coxsackieviruses A4-5, A7, A9-10, B1-3, B5 ••• [eMedicine](#) [eMedicine #2](#) [CDC](#)

Heart attack (myocardial infarction) ••• Coxsackievirus B (human), types 2 & 3 ••• [18061067](#)

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Hepatitis ... Hepatitis A virus, Hepatitis B virus, Hepatitis C virus, Hepatitis D virus, Hepatitis E virus ... [CDC](#) [NIH](#)

Herpes zoster (also known as shingles) ... Human herpesvirus 3 (also known as varicella-zoster virus) ... [Mayo](#) [eMedicine](#)

Herpetic whitlow ... Human herpesvirus 1, Human herpesvirus 2 ... [eMedicine](#)

Histoplasmosis (also known as Darling's disease, reticuloendotheliosis, Ohio Valley disease, African histoplasmosis) ... Histoplasma capsulatum (also known as Ajellomyces capsulatus) ... [Broad Inst.](#)

Hospital infections (most common) ... Pseudomonas aeruginosa, Staphylococcus aureus (especially MSRA strains), Clostridium difficile, Acinetobacter baumannii, Enterobacter/Enterococci species, Escherichia coli, Fungal species (including Candida parapsilosis & other Candida species), other pathogens ... [eMedicine](#) [18854483](#)

HTLV-1-associated myelopathy (also known as tropical spastic paraparesis) ... Human T-cell lymphotropic virus type 1, also known as human T-cell leukemia virus type 1 or HTLV-1 ... [Merck Manual](#)

Human granulocytic anaplasmosis (formerly Human granulocytic ehrlichiosis) ... Anaplasma phagocytophilum ... [16482227](#)

Human monocytic ehrlichiosis ... Ehrlichia chaffeensis ... [16482227](#)

I

Impetigo ... Staphylococcus aureus, Streptococcus pyogenes ... [eMedicine](#)

Indian tick typhus ... Rickettsia conorii ... [eMedicine](#)

Inflammatory bowel disease (IBD) ... Bacteroides fragilis; Fusobacterium species: F. nucleatum, F. varium, F. mortiferum, and possibly other Fusobacterium; Ruminococcus gnavus, Bacteroides caccae ... [16000463](#)
[25102986](#) [27139617](#) [29183332](#) [35237276](#)

Influenza ... Influenza A virus, Influenza B virus, Influenza C virus, Haemophilus influenzae type b bacteria ... [CDC](#)

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Israeli tick typhus ... Rickettsia conorii ... [eMedicine](#)

J

Japanese (Oriental) spotted fever ... Rickettsia japonica ... [CDC](#)

Japanese encephalitis ... Japanese encephalitis virus ... [CDC](#)

K

Kenya tick typhus ... Rickettsia conorii ... [eMedicine](#)

L

La Crosse encephalitis ... La Crosse virus ... [CDC](#) [9494831](#)

Larva currens (also known as cutaneous strongyloidiasis) ... Strongyloides stercoralis, Strongyloides fuelleborni ... [eMedicine](#)

Lassa fever ... Lassa virus ... [CDC](#)

Legionnaire's disease ... Legionella pneumophila ... [CDC](#) [MedicineNet](#)

Leishmaniasis (also known as black fever, kala azar, Baghdad boil, Dehli boil, Shahib disease, etc.) ... Leishmania tropica mexicana, Leishmania braziliensis, Leishmania amazonensis, Leishmania tropica, Leishmania major, Leishmania infantum, Leishmania aethiopica, Leishmania donovani, Leishmania chagasi ... [CDC](#) [eMedicine](#) [WHO](#)

Leprosy (also known as Hansen's disease) ... Mycobacterium leprae ... [MedlinePlus](#)

Leptospirosis ... Leptospira interrogans sensu lato, Leptospira pomona, Leptospira grippityphosa, Leptospira ballum, Leptospira icterohaemorrhagiae, Leptospira canicola, Leptospira autumnalis, other Leptospira species ... [eMedicine](#) [Leptospira](#)

Leukemia, adult T-cell ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#)

Listeriosis ... Listeria monocytogenes ... [CDC](#)

Lou Gehrig's disease (Amyotrophic lateral sclerosis, ALS, motor neuron disease) ... HTLV-1 (Human lymphotropic

DNA Pathogen Frequencies

7595608 11175327 8392664 8393394

Louse-borne relapsing fever ... *Borrelia recurrentis* ... [CDC](#)

Lupus (aka systemic lupus erythematosus, SLE) ... Human endogenous retrovirus HRES-1 ... [18432409](#) [18240231](#)
[10436175](#)

Lyme disease ... *Borrelia burgdorferi* (primary species in N. America); *Borrelia mayonii*; *Borrelia garinii* (primary species in Europe); *Borrelia afzelii* (Europe); *Borrelia spielmanii* (Europe); *Borrelia valaisiana* (Europe); *Borrelia bissettii*. These species now also called *Borrelia* (synonym). ... [CDC](#)
[CDC](#) [ColumbiaUniv](#) [22207749](#)

Lyme disease co-infections ... *Bartonella henselae* (also see “Bartonellosis” above); *Ehrlichia chaffeensis*, *Ehrlichia ewingii*, *Anaplasma phagocytophilia*, *Borrelia miyamotoi*, *Babesia* (*Theileria*) *microti*, *Babesia divergens*, *Babesia duncani*, *Babesia* sp. EU1 (provisionally named *Babesia venatorum*), Powassan virus, Deer tick virus ...
[ColumbiaUniv](#) [CDC](#) [eMedicine](#) [CDC](#) [11113258](#) [19210953](#)
[16513280](#) [11357992](#) [11716135](#) [15381804](#) [CDC](#)

Lymphogranuloma venereum ... *Chlamydia trachomatis* ...
[CDC](#) [15472852](#)

Lymphoma, B-cell ... Avian leukosis virus ... [18024587](#)
[9209336](#)

Lymphoma, Burkitt's ... Human herpesvirus 4 (also known as Epstein-Barr virus) ... [18515742](#)

Lymphoma, cutaneous T-cell ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#)

Lymphoma, Hodgkin's ... Human herpesvirus 4 (also known as Epstein-Barr virus), Human herpesvirus 6 ... [18515742](#)
[17607791](#)

Lymphoma, non-Hodgkin's ... Human herpesvirus 4 (also known as Epstein-Barr virus) [18282597](#)

Lymphoma, primary effusion ... Human herpesvirus 8, Human herpesvirus 4 (also known as Epstein-Barr virus)
[18628086](#) [15613351](#)

M

DNA Pathogen Frequencies

Malassezia (Pityrosporum) folliculitis ••• Malassezia furfur, Malassezia globosa, Malassezia restricta, Malassezia sympodialis ••• [eMedicine](#) [22232373](#)

Malta fever (also known as undulant fever) ••• Brucella melitensis, Brucella abortus, Brucella suis ••• [eMedicine](#) [APHIS](#)

Mansonellosis ••• Mansonella perstans, Mansonella ozzardi, Mansonella streptocerca ••• [CDC](#)

Marseilles fever ••• Rickettsia conorii ••• [eMedicine](#)

Measles (rubeola, red measles) ••• Measles virus ••• [CDC](#) [eMedicine](#)

Measles, German (aka Rubella, 3-day measles) ••• Rubella virus ••• [MedlinePlus](#) [CDC](#)

Mediterranean spotted fever (also known as boutonneuse fever) ••• Rickettsia conorii ••• [eMedicine](#) [11557893](#)

Melioidosis (also known as Whitmore's disease) ••• Burkholderia pseudomallei ••• [CDC](#) [PMC5426594](#)

Meningitis, bacterial ••• Various gram-negative bacteria: Haemophilus influenzae (type B), Neisseria meningitidis, Streptococcus pneumoniae, Listeria monocytogenes, Staphylococcus aureus; Streptococcus bacteria groups A, B, and G; Streptococcus agalactiae (group B strep) ••• [CDC](#) [MedlinePlus](#) [MedlinePlus](#) [eMedicine](#)

Meningitis, viral ••• Coxsackie A & B viruses, Echo viruses, Herpesviruses, Enteroviruses #70 & 71, Mumps virus, Polioviruses, other viruses ••• [CDC](#) [eMedicine](#) [MedlinePlus](#)

Metagonimiasis ••• Metagonimus yokogawai, Metagonimus takashii, Metagonimus miyatai ••• [CDC](#)

Mononucleosis ••• Human herpesvirus 4 (also known as Epstein-Barr virus); Human herpesvirus 5 (also known as Cytomegalovirus) ••• [eMedicine](#) [MedlinePlus](#)

Morgellon's disease ••• Borrelia burgdorferi ••• [27789971](#) [25879673](#) [23326202](#)

Mosquito-transmitted diseases ••• Chikungunya virus, Yellow fever virus, West Nile virus, Dengue virus, Ross River virus, Barmah forest virus, Zika virus, Rift Valley fever virus,

DNA Pathogen Frequencies

encephalitis virus, Jamestown Canyon virus, Plasmodium malarial species, Dirofilaria immitis (heartworm), other filarial roundworm parasites (Wuchereria bancrofti, Brugia species) ... [MN Dept of Health](#) [AMCA](#)

Motor neuron disease (also known as Amyotrophic lateral sclerosis, ALS, Lou Gehrig disease) ... HTLV-1, Human foamy virus (also known as Human spumaretrovirus), Human endogenous retrovirus K (HERV-K), Mycoplasma fermentans, Echovirus 7 ... [10636120](#) [12383408](#) [11175327](#) [8392664](#) [26424568](#)

Mucormycosis ... Rhizopus oryzae (most common, also known as Rhizopus arrhizus); other species from: Mucor, Cunninghamella, Apophysomyces, Absidia, Saksenaea, Rhizomucor organisms ... [eMedicine](#) [MicrobeWiki](#)

Multiple sclerosis ... Human endogenous retrovirus HRES-1, Human herpesvirus 4 (also known as Epstein-Barr virus), Human herpesvirus 6A, Chlamydia pneumoniae, HERV-W (Human endogenous retrovirus type W) ... [11381188](#) [9345377](#) [1280512](#) [20814489](#) [16909795](#) [15782388](#) [17617614](#) [19368703](#)

Mumps ... Mumps virus ... [MedlinePlus](#)

Mycosis fungoides (also known as cutaneous T-cell lymphoma) ... Human T-cell lymphotropic virus type 1 (HTLV-1) ... [eMedicine](#) [eMedicine #2](#) [7860737](#)

Myocardial infarction (also known as heart attack) ... Coxsackievirus B (human), types 2 & 3 ... [18061067](#)

Myocarditis ... Coxsackievirus B (human), types 1-5; Human parvovirus B19 ... [18389726](#) [15579433](#) [12707353](#) [11092665](#) [15085375](#) [16316398](#) [12925460](#) [14689308](#)

N

Nail fungus (also known as onychomycosis) ... Trichophyton rubrum, Trichophyton mentagrophytes, Trichophyton interdigitale; Candida albicans, Candida tropicalis, Candida parapsilosis ... [eMedicine](#) [30107987](#) [29707676](#) [22954465](#) [DermNetNZ](#)

Necrotizing fasciitis ... Streptococcus pyogenes (group A strep), Vibrio vulnificus, Staphylococcus aureus ... [WebMD](#) [NEJM](#)

DNA Pathogen Frequencies

Nocardiosis ... *Nocardia asteroides*, many other *Nocardia* species ... [eMedicine](#) [CDC](#)

North Asian tick typhus (or tick fever, also known as Siberian tick typhus) ... *Rickettsia sibirica* ... [14568744](#)

O

Obesity ... Adenoviruses type 36, 37, and 5 ... [20109503](#)
[19593728](#) [15611785](#) [26352001](#)

Onchocerciasis (also known as River blindness) ... *Onchocerca volvulus* (a nematode); *Wolbachia* species bacteria (symbiotic with the nematode) ... [eMedicine](#) [30107987](#) [29707676](#)
[22954465](#) [DermNetNZ](#)

Onychomycosis (nail fungus) ... *Trichophyton rubrum*, *Trichophyton mentagrophytes*, *Trichophyton interdigitale*; *Candida albicans*, *Candida tropicalis*, *Candida parapsilosis* ... [eMedicine](#)

Oroya fever (also known as Carrion's disease, *Verruga peruana*) ... *Bartonella bacilliformis* ... [eMedicine](#)

Osteomyelitis ... *Staphylococcus aureus* (primary), *Streptococcus* species groups A & occasionally B, *Enterobacter* species, *Pseudomonas* species, *Haemophilus influenzae*, other bacteria ... [eMedicine](#)

P

Paracoccidioidomycosis ... *Paracoccidioides brasiliensis*, *Paracoccidioides lutzii* ... [CDC](#) [eMedicine](#)

Paragonimiasis ... *Paragonimus westermani* ... [eMedicine](#)

Parkinson's disease ... *Nocardia cyriacigeorgica* (formerly called *Nocardia asteroides*); *Nocardia farcinica* ... [12429191](#)
[14769363](#) [18538618](#) [29038748](#)

Peptic ulcer (stomach ulcer) ... *Helicobacter pylori* ... [NIH MedlinePlus](#)

Periodontitis ... *Fusobacterium nucleatum*, *Fusobacterium periodonticum*, *Porphyromonas gingivalis*, *Treponema denticola*, *Actinomyces viscosus*, *Tannerella forsythia* (also known as *Tannerella forsythensis*), *Aggregatibacter*

DNA Pathogen Frequencies

Pharyngitis ••• Streptococcus pyogenes (or other group A strep); Corynebacterium haemolyticus, Mycoplasma pneumoniae, Chlamydophila (Chlamydia) pneumoniae, other bacteria; many viruses (not limited to respiratory viruses) ••• [eMedicine](#)

Piedra ••• Trichosporon asahii, Trichosporon ovoides, Trichosporon inkin, Trichosporon mucoides, Trichosporon asteroides, Trichosporon cutaneum, Piedraia hortae (black piedra) •••[eMedicine](#)

Piroplasmosis, see Babesiosis

Pityriasis versicolor ••• Malassezia globosa, Malassezia sympodialis, Malassezia furfur ••• [11069459](#) [16094290](#) [22232373](#) [DermNetNZ](#) [MicrobeWiki](#)

Pityrosporum folliculitis, see Malassezia folliculitis

Plague (also known as black death, bubonic plague) ••• Yersinia pestis ••• [CDC](#)

Pneumonia (bacterial) ••• Streptococcus pneumoniae (most common); Moraxella (Branhamella) catarrhalis, Chlamydophila (Chlamydia) psittaci, Chlamydophila (Chlamydia) pneumoniae, Haemophilus influenzae, Legionella pneumophila, Mycoplasma pneumoniae ••• [CDC](#) [CDC](#)

Pneumonia (viral) ••• Most common: Influenza viruses, Respiratory syncytial virus, Parainfluenza virus, Adenovirus; less common: Rhinovirus, Human metapneumovirus, SARS coronavirus, MERS coronavirus ••• [eMedicine](#)

Pneumonic plague ••• Yersinia pestis ••• [CDC](#)

Polio and Poliomyelitis ••• Polio virus ••• [CDC](#)

Pontiac fever ••• Legionella pneumophila ••• [CDC](#)

Primary biliary cirrhosis ••• Novosphingobium aromaticivorans ••• [15554995](#) [20161124](#)

Progressive multifocal leukoencephalopathy ••• JC virus ••• [11087099](#)

Psittacosis ••• Chlamydophila (Chlamydia) psittaci ••• [CDC](#)

Psoriasis ••• Human herpesvirus 8 ••• [16230560](#) [18711073](#)

Puerperal sepsis (childbed fever) ••• Streptococcus pyogenes (group A strep), Streptococcus agalactiae (group B strep),

DNA Pathogen Frequencies

Q

Q fever ... *Coxiella burnetii* ... [19047403](#) [eMedicine](#)

Queensland tick typhus (also known as Australian tick typhus) ... *Rickettsia australis* ... [Australia](#)

R

Rabbit fever (tularemia) ... *Francisella tularensis* ... [eMedicine](#)

Rabies ... Rabies virus ... [Rabies](#)

Relapsing fever, louse-borne ... *Borrelia recurrentis* ... [eMedicine](#) [CDC](#)

Relapsing fever, tick-borne ... *Borrelia hermsii*, *Borrelia duttoni*, *Borrelia turicatae*, *Borrelia parkeri*, *Borrelia miyamotoi*, *Borrelia coriaceae*, *Borrelia hispanica*, *Borrelia crocidurae* ... [eMedicine](#) [CDC](#) [CDC](#) [CDC](#) [29670860](#)
[19861058](#) [30288084](#) [29420552](#)

Rheumatic fever ... *Streptococcus pyogenes* (group A strep) ... [eMedicine](#)

Rickettsialpox ... *Rickettsia akari* ... [CDC](#) [17038703](#)
[18260508](#) [28846279](#)

Rickettsiosis (non-Spotted fever variety) ... *Rickettsia canadensis*; possibly *Rickettsia bellii* (widespread *Rickettsia* species known to infect mammals; tick-borne) ... [4985949](#)
[2742443](#) [16223955](#) [16703114](#)

Rickettsiosis (Spotted fever variety) ... *Rickettsia rickettsii* (causes Rocky Mountain spotted fever); *Rickettsia parkeri*, *Rickettsia felis* (carried by fleas), *Rickettsia massiliae*, *Rickettsia africae* (African tick-bite fever), *Rickettsia conorii* (Mediterranean spotted fever), *Rickettsia sibirica* (North Asian tick-borne fever), *Rickettsia akari* (causes rickettsialpox) ... [14999622](#) [16481534](#) [15984913](#) [16223955](#)
[20208020](#)

Rift Valley fever ... Rift Valley fever virus ... [CDC](#)

Ringworm (Tinea infection) ... Most common: *Trichophyton rubrum*; *Trichophyton tonsurans*, *Trichophyton interdigitale*,

DNA Pathogen Frequencies

River blindness (also known as onchocerciasis) ••• *Onchocerca volvulus* (a nematode); *Wolbachia* species bacteria (symbiotic with the nematode) ••• [eMedicine](#)

Rocky Mountain spotted fever ••• *Rickettsia rickettsii* ••• [eMedicine](#)

Rosacea ••• *Demodex* species, *Bacillus oleronius*, *Staphylococcus epidermidis* ••• [article](#) [22933353](#) [22709541](#)
[24248990](#)

Roseola (also known as exanthem subitum, baby measles, sixth disease, roseola infantum) ••• Human herpesvirus 6B (most common); Human herpesvirus 6A, Human herpesvirus 7 ••• [eMedicine](#) [Mayo](#)

Rubella (also known as German measles, 3-day measles) ••• Rubella virus ••• [MedlinePlus](#) [CDC](#)

S

Sarcoidosis ••• *Mycobacterium tuberculosis*, other *Mycobacterium* species; *Propionibacterium acnes* ••• [21659662](#) [16926652](#) [25191477](#) [24428939](#)

Scabies ••• *Sarcoptes scabiei*, type hominis ••• [article](#)

Scalded skin syndrome ••• *Staphylococcus aureus* ••• [eMedicine](#)

Scarlet fever ••• *Streptococcus pyogenes* (beta-hemolytic group A *Streptococcus*) ••• [CDC](#) [eMedicine](#)

Schistosomiasis (aka bilharzia or snail fever) ••• *Schistosoma mansoni*, *Schistosoma hematobium*, *Schistosoma japonicum*, *Schistosoma intercalatum*, *Schistosoma mekongi* ••• [eMedicine](#) [eMedicine #2](#)

Schizophrenia ••• HERV-W (Human endogenous retrovirus type W) ••• [21936762](#) [18760403](#)

Scrub typhus ••• *Orientia tsutsugamushi*; spread via infected chiggers; common in Southeast Asia ••• [CDC](#) [28979009](#)

Seborrheic dermatitis ••• *Malassezia restricta*, *Malassezia globosa*, *Malassezia sympodialis*, *Malassezia furfur* ••• [22232373](#) [DermNetNZ](#) [MicrobeWiki](#)

Serous or Body cavity filariasis ••• see Mansonellosis.

DNA Pathogen Frequencies

Shigellosis ... *Shigella sonnei*, *Shigella flexneri*, *Shigella dysenteriae*, *Shigella boydii*, other *Shigella* species ... [CDC eMedicine](#)

Shingles (also known as herpes zoster) ... Human herpesvirus 3 (also known as varicella-zoster virus) ... [eMedicine](#) [Mayo](#)

Siberian tick typhus (also known as North Asian tick typhus) ... *Rickettsia sibirica* ... [14568744](#)

SIBO (small intestine bacterial overgrowth) ... Most common: *Escherichia coli*; certain *Streptococcus* species (non-A, non-B, non-D types: i.e., *Streptococcus dysgalactiae* subspecies *equisimilis* and *Streptococcus equi* subspecies *zooepidemicus*); *Lactobacillus* species; *Klebsiella pneumoniae*; *Enterococcus faecalis* & *Enterococcus faecium*; *Micrococcus* species; *Methanobrevibacter smithii* (methane-producing), *Citrobacter freundii*, *Acinetobacter baumannii*, *Staphylococcus aureus*. Other possibilities: *Proteus mirabilis*, *Clostridium* species, *Pseudomonas aeruginosa*, *Serratia marscecens*, *Pasturella multocida*, *Enterobacter aerogenes*, *Bacteroides* species (including *Bacteroides melaninogenicus*), *Veillonella* species, *Fusobacterium* species, *Peptostreptococcus* species ... [PMC165422](#) [10235214](#) [article](#) [22262197](#)

Sinusitis, bacterial ... *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Bacteroides* species, *Peptostreptococcus* species, *Fusobacterium* species, *Moraxella catarrhalis*, *Staphylococcus aureus*, *Porphyromonas* species, *Prevotella* species, other bacterial species ... [eMedicine](#) [16272532](#) [eMedicine #2](#)

Sinusitis, fungal ... Most common: *Aspergillus* species (*A. fumigatus* & *A. flavus*), *Cladosporium cladosporioides*, *Alternaria alternata*, *Penicillium* species and *Mucor* species; *Curvularia lunata* & other *Curvularia* species; *Bipolaris*, *Exserohilum*, *Alternaria*, *Drechslera*, *Helminthosporium*, *Mortierella*, *Fusarium*, *Rhizopus*, & other species (see also Zygomycosis) ... [eMedicine](#) [eMedicine #2](#) [PMC5593913](#) [PMC4988372](#) [PMC4921694](#)

Sinusitis, viral ... Most common: rhinovirus, parainfluenza virus, influenza viruses ... [eMedicine](#)

Sixth disease (also known as exanthem subitum, baby measles, roseola infantum) ... Human herpesvirus 6B (most common), Human herpesvirus 6A, Human herpesvirus 7 ... [eMedicine](#) [Mayo](#)

DNA Pathogen Frequencies

- Sleeping sickness (African) ...** *Trypanosoma brucei rhodesiense* (most severe); *Trypanosoma brucei gambiense* (most common) ... [WHO](#) [MedlinePlus](#) [CDC](#)
- Small intestine bacterial overgrowth, see** SIBO
- Smallpox ...** *Variola major virus*, *Variola minor virus* ... [eMedicine](#)
- South African tick bite fever ...** *Rickettsia conorii* ... [eMedicine](#)
- Southern tick associated rash illness, see** STARI
- Sparganosis ...** *Spirometra* species of tapeworm: *Spirometra mansoni*, *Spirometra ranarum*, *Spirometra mansonoides*, *Spirometra erinacei*, *Sparganum proliferum* ... [CDC](#)
- Sporotrichosis (also known as** Rose handlers' disease, Beurmann's disease, Schenck's disease) ... *Sporothrix schenckii* (formerly, *Sporotrichum schenckii*) ... [eMedicine](#)
- Spotted fever (also known as** Rickettsiosis), see Rickettsiosis (Spotted fever variety)
- St. Louis encephalitis ...** *St. Louis encephalitis virus* ... [CDC](#)
- STARI (Southern tick associated rash illness, also known as** Masters' disease) ... *Borrelia* species, possibly *Borrelia lonestari* ... [19522220](#) [ColumbiaUniv](#)
- Stomach flu, see** Gastroenteritis, acute viral
- Stomach ulcer (peptic ulcer) ...** *Helicobacter pylori* ... [NIH](#) [MedlinePlus](#)
- Strep throat ...** *Streptococcus pyogenes* (group A strep) ... [CDC](#) [Bacteriology](#)
- Strongyloidiasis ...** *Strongyloides stercoralis*, *Strongyloides fuelleborni* ... [eMedicine](#)
- Subacute sclerosing panencephalitis ...** *Measles virus* (defective strain) ... [12925376](#)
- Syphilis ...** *Treponema pallidum* ... [eMedicine](#)
- Systemic lupus erythematosus (SLE, also known as** lupus) ... *Human endogenous retrovirus HRES-1* ... [18432409](#) [18240231](#) [10436175](#)

DNA Pathogen Frequencies

Taeniasis (tapeworm infection) ••• Taenia solium (pork tapeworm - most common); Taenia saginata (beef tapeworm - less common); Taenia asiatica, Taenia hydatigena, Diphyllbothrium latum, Diphyllbothrium nihonkaiense (fish or broad tapeworm), Hymenolepis nana (dwarf tapeworm), Echinococcus granulosus, Echinococcus multilocularis ••• [eMedicine](#) [eMedicine #2](#) [17762788](#)

Tetanus (also known as lockjaw) ••• Clostridium tetani ••• [eMedicine](#)

Thai tick typhus ••• Rickettsia honei ••• [11716110](#)

Thelaziasis ••• Thelazia species, especially Thelazia callipaeda (Oriental eyeworm), T. californiensis (California eye worm), and T. gulosa (cattle eyeworm) ••• [CDC](#) [16995411](#)

Thrush ••• Candida albicans ••• [eMedicine](#)

Tick-borne relapsing fever ••• Borrelia hermsii, Borrelia parkeri, Borrelia turicatae, Borrelia persica ••• [CDC](#) [26169028](#)

Tinea infection (skin fungal infection, including ringworm) ••• Most common: Trichophyton rubrum, T. tonsurans, T. schoenleinii, T. violaceum, T. interdigitale, T. mentagrophytes; Microsporum canis, Microsporum audouinii, Epidermophyton floccosum. Others: Arthroderma obtusum, Arthroderma gypseum, other Microsporum species, Nannizzia species ••• [eMedicine](#)

Tinea pedis (foot fungal infection) ••• Trichophyton rubrum (most common); Trichophyton mentagrophytes, Epidermophyton floccosum ••• [eMedicine](#)

Tinea versicolor ••• Malassezia species, often Malassezia globosa & Malassezia furfur ••• [eMedicine](#)

Tonsillitis ••• Streptococcus pyogenes, other pathogens ••• [eMedicine](#)

Tooth decay (caries) ••• Streptococcus mutans ••• [MicrobeWiki](#)

Toxic shock syndrome ••• Staphylococcus aureus, group A Streptococcus (Streptococcus pyogenes) ••• [eMedicine](#)

Toxoplasmosis ••• Toxoplasma gondii ••• [eMedicine](#) [Toxoplasmosis](#)

Trachoma (eye disease) ••• Chlamydia trachomatis ••• [eMedicine](#)

DNA Pathogen Frequencies

Trichinosis ••• *Trichinella spiralis*, other species of *Trichinella* ••• [eMedicine](#)

Trichomoniasis ••• *Trichomonas vaginalis* ••• [eMedicine](#)

Trichostrongylosis ••• *Trichostrongylus* species, including *T. axei*, *T. orientalis*, and *T. colubriformis* ••• [CDC](#)

Tropical spastic paraparesis (also known as HTLV-1-associated myelopathy) ••• Human T-cell lymphotropic virus type 1, also known as human T-cell leukemia virus type 1 or HTLV-1 ••• [Merck Manual](#)

Trypanosomiasis, African ••• *Trypanosoma brucei rhodesiense* (most severe); *Trypanosoma brucei gambiense* (most common) ••• [WHO](#) [MedlinePlus](#) [CDC](#)

Trypanosomiasis, American ••• *Trypanosoma cruzi* ••• [MedlinePlus](#) [CDC](#)

Tuberculosis ••• *Mycobacterium tuberculosis*, *Mycobacterium bovis* ••• [eMedicine](#) [CDC](#) [APHIS](#)

Tularemia (rabbit fever) ••• *Francisella tularensis* ••• [eMedicine](#)

Typhoid fever ••• *Salmonella enterica* subspecies *enterica* serovar *typhi*; *Salmonella enterica* subspecies *enterica* serovar *paratyphi A* ••• [15531882](#)

Typhus ("endemic" or "murine" typhus) ••• *Rickettsia typhi*; spread via infected fleas ••• [CDC](#) [MedlinePlus](#)

Typhus ("epidemic" typhus) ••• *Rickettsia prowazekii*; spread via infected lice ••• [CDC](#) [MedlinePlus](#)

Typhus (scrub), see Scrub typhus

U

Ulcerative colitis ••• *Mycobacterium avium* subspecies *paratuberculosis* (also known as *Mycobacterium paratuberculosis*) ••• [21167058](#)

Ulcers (peptic or stomach) ••• *Helicobacter pylori* ••• [NIH MedlinePlus](#)

Undulant fever (also known as Malta fever) ••• *Brucella melitensis*, *Brucella abortus*, *Brucella suis* ••• [eMedicine](#) [APHIS](#)

DNA Pathogen Frequencies

~~Streptococcus pneumoniae, Mycobacterium tuberculosis, Pseudomonas aeruginosa,~~
Chlamydia trachomatis, Enterococcus faecalis, Aerococcus
urinae, other bacteria ... [eMedicine](#) [16135568](#) [eMedicine #2](#)
[1500498](#) [eMedicine #3](#)

V

Valley fever (also known as coccidioidomycosis, San Joaquin fever, desert fever, California fever) ... Coccidioides immitis, Coccidioides posadasii ... [Mayo](#) [eMedicine](#)

Venezuelan equine encephalitis ... Venezuelan equine encephalitis virus ... [eMedicine](#)

Verruga peruana (also known as Oroya fever, Carrion's disease) ... Bartonella bacilliformis ... [eMedicine](#) [NIH](#)

W

Warts, common (Verruca vulgaris) ... Human papillomavirus types 1, 2 (common); 4, 7, 27, 29, 57, 60, 65 ... [Merck Manual](#) [1764803](#) [Textbook of Dermatology](#)

Warts, filiform (thread-like wart, a variant of common wart) ... Human papillomavirus types 1, 2, 4, 27, 29 ... [Warts Information Center](#)

Warts, flat (Verruca plana) ... Human papillomavirus types 3, 10, 28, 38, 41, 49 ... [Merck Manual](#) [Textbook of Dermatology](#)

Warts, genital (also known as "Condyloma acuminatum") ... Human papillomavirus types: 6, 11 (most common); type 7; type 2 (occasionally in children); also types 10, 30, 40-45, 51, 54 ... [eMedicine](#) [23634957](#) [Textbook of Dermatology](#) [emedtv](#) [PMC6746260](#) [19820442](#)

Warts, plantar ... Human papillomavirus types 1 (most common), 2, 4 ... [2850937](#) [6290785](#) [Merck Manual](#) [Textbook of Dermatology](#)

West Nile disease ... West Nile disease virus ... [eMedicine](#)

Whipple's disease ... Tropheryma whipplei ... [12606174](#)

Whitmore's disease (also known as melioidosis) ... Burkholderia pseudomallei ... [CDC](#)

Whooping cough ... Bordetella pertussis, Bordetella parapertussis ... [Bacteriology](#) [eMedicine](#)



Yellow fever ••• Yellow fever virus ••• [MicrobeWiki](#)

Z

Zygomycosis (also known as Mucormycosis, invasive fungal sinusitis) ••• Rhizopus species (most common); Rhizopus oryzae (formerly, Rhizopus arrhizus), Rhizopus rhizopodiformis; Mucor species, Cunninghamella species; other fungal species including Apophysomyces, Absidia, Saksenaea, Rhizomucor, Mortierella, Entomophthora, Conidiobolus, Basidiobolus, and others ••• [eMedicine](#)