

Diseases and the Organisms that Cause Them

BACTERIAL DISEASES—ALSO SEE APPENDIX B

Disease	Organism	Type*	Page	Disease	Organism	Type*	Page
acne	<i>Propionibacterium acnes</i>	R, +	513	ornithosis (psittacosis)	<i>Chlamydia psittaci</i>	coccoid, NA	585
actinomycosis	<i>Actinomyces israelii</i>	I, +	523	Oroyo fever (Carrión's disease, bartonellosis)	<i>Bartonella bacilliformis</i>	coccoid, -	652
anthrax	<i>Bacillus anthracis</i>	R, +	85, 641-643	peptic ulcer	<i>Helicobacter pylori</i>	R, -	614-615
bacterial meningitis	<i>Haemophilus influenzae</i>	R, -	675	periodontal disease	<i>Porphyromonas gingivalis</i> and others	R, -	605-606
	<i>Neisseria meningitidis</i>	C, -	389, 670	pharyngitis (strep throat)	<i>Streptococcus pyogenes</i>	C, +	571-572
	<i>Streptococcus pneumoniae</i>	C, +	671	plague (black death)	<i>Yersinia pestis</i>	R, -	293, 643-645
	<i>Listeria monocytogenes</i>	R, -	671	bubonic plague			
bacterial vaginitis	<i>Gardnerella vaginalis</i>	R, -	543	pneumonic plague			
botulism	<i>Clostridium botulinum</i>	R, +	361, 668, 680-681	pneumonia	<i>Streptococcus pneumoniae</i>	C, +	578-579
brucellosis (undulant fever, Malta fever)	<i>Brucella</i> sp. [†]	CB, -	646-647		<i>Klebsiella pneumoniae</i>	R, -	113, 152, 579, 595
cat scratch fever	<i>Afipia felis</i> , <i>Bartonella henselae</i>	R, - CB, NA	528	pneumonia, atypical (walking pneumonia)	<i>Mycoplasma pneumoniae</i>	I, NA	579
chancroid	<i>Haemophilus ducreyi</i>	R, -	551	pseudomembranous colitis	<i>Clostridium difficile</i>	R, +	615-616
cholera (Asiatic cholera)	<i>Vibrio cholerae</i>	vibrio, -	361, 611-612	puerperal fever (childbed fever)	<i>Streptococcus pyogenes</i>	C, +	637
conjunctivitis	<i>Haemophilus aegyptius</i>	CB, -	523	Q fever	<i>Coxiella burnetii</i>	CB, NA	292, 585-586
dental caries	<i>Streptococcus mutans</i>	C, +	603-605	rat bite fever	<i>Spirillum minor</i>	S, -	529
diphtheria	<i>Corynebacterium diphtheriae</i>	R, +	603-605		<i>Streptobacillus moniliformis</i>	R, -	529
ehrlichiosis	<i>Ehrlichia</i> sp.	R, NA	653	relapsing fever	<i>Borrelia</i> sp.	S, -	646-647
endocarditis	<i>Enterococcus faecalis</i>	C, +	637-638	rheumatic fever	<i>Streptococcus pyogenes</i>	C, +	637
food poisoning	<i>Staphylococcus aureus</i>	C, +	361, 607-609	rickettsialpox	<i>Rickettsia akari</i>	CB, NA	651
	<i>Streptococcus pyogenes</i>	C, +	631	Rocky Mountain spotted fever	<i>Rickettsia rickettsii</i>	CB, NA	651
	<i>Clostridium perfringens</i>	R, +	361, 608	salmonellosis	<i>Salmonella</i> sp.	R, -	609
	<i>Clostridium botulinum</i>	R, +	608	shigellosis (bacillary dysentery)	<i>Shigella</i> sp.	R, -	610-611
	<i>Bacillus cereus</i>	R, +	608	skin and wound infections (scalded skin syndrome, scarlet fever, erysipelas, impetigo, etc.)	<i>Staphylococcus aureus</i>	C, +	512
	<i>Listeria monocytogenes</i>	R, +	671		<i>Staphylococcus epidermidis</i>	C, +	513
	<i>Campylobacter</i> sp.	R, -	345, 607-609, 612		<i>Streptococcus</i> sp.	C, +	513
	<i>Shigella</i> sp.	R, -	361, 610-611		<i>Providencia stuartii</i>	R, -	513
	<i>Salmonella</i> sp.	R, -	344, 609		<i>Pseudomonas aeruginosa</i>	R, -	513
	<i>Vibrio parahaemolyticus</i>	R, -	612		<i>Serratia marcescens</i>	R, -	178, 514
gas gangrene	<i>Clostridium perfringens</i> and others	R, -	527-528	syphilis	<i>Treponema pallidum</i>	S, -	548-552
gonorrhea	<i>Neisseria gonorrhoeae</i>	C, -	545-548	tetanus	<i>Clostridium tetani</i>	R, +	679-680
granuloma inguinale (donovanosis)	<i>Calymmatobacterium granulomatis</i>	R, -	554	toxic shock syndrome	<i>Staphylococcus aureus</i>	C, +	544
Hansen's disease (leprosy)	<i>Mycobacterium leprae</i>	R, A-F	676-680	trachoma	<i>Chlamydia trachomatis</i>	coccoid, NA	525
Legionnaires' disease (legionellosis)	<i>Legionella pneumophila</i>	R, -	579-581	trench fever	<i>Rochalimaea quintana</i>	CB, NA	293, 652
leptospirosis	<i>Leptospira interrogans</i>	S, -	542-543	tuberculosis	<i>Mycobacterium tuberculosis</i>	R, A-F	581-585
listeriosis	<i>Listeria monocytogenes</i>	R, +	671	tuberculosis, avian	<i>Mycobacterium avium</i>	R, A-F	583
Lyme disease	<i>Borrelia burgdorferi</i>	S, -	292, 647-650	tularemia	<i>Francisella tularensis</i>	R, -	293, 645-646
lymphogranuloma venereum	<i>Chlamydia trachomatis</i>	coccoid, NA	554	typhoid fever	<i>Salmonella typhi</i>	R, -	609-610
Madura foot (maduromycosis)	<i>Actinomadura</i> , <i>Streptomyces</i> , <i>Nocardia</i>	I, +, some A-F	523	typhus, endemic (murine typhus)	<i>Rickettsia typhi</i>	CB, NA	650-651
nongonococcal urethritis (NGU)	<i>Chlamydia trachomatis</i> <i>Ureaplasma urealyticum</i>	R, VAR I, NA	552-553 553	typhus, epidemic	<i>Rickettsia prowazekii</i>	CB, NA	650
				typhus, recrudescent (Brill-Zinsser disease)	<i>Rickettsia prowazekii</i>	CB, NA	650
				typhus, scrub (tsutsugamushi disease)	<i>Rickettsia tsutsugamushi</i>	CB, NA	650

Diseases and the Organisms that Cause Them (Continued)

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Disease	Organism	Type*	Page	
verruca peruana (bartonellosis)	<i>Bartonella bacilliformis</i>	coccoid, —	652	*Key to types: C = coccus I = irregular VAR = Gram-variable CB = coccobacillus — = Gram-negative A-F = acid-fast R = rod + = Gram-positive NA = not applicable S = spiral *Species
vibriosis	<i>Vibrio parahaemolyticus</i>	R, —	612	
whooping cough (pertussis)	<i>Bordetella pertussis</i>	CB, —	575–578	
yersiniosis	<i>Yersinia enterocolitica</i>	R, —	613	

VIRAL DISEASES

Disease	Virus	Reservoir	Page	Disease	Virus	Reservoir	Page
aplastic crisis in sickle cell anemia	erythrovirus (B19)	humans	658	herpes, oral	usually herpes simplex type 1, sometimes type 2	humans	245, 554–555
avian (bird) flu	influenza	birds	586–588	HIV disease, AIDS	human immunodeficiency virus (HIV)	humans	244, 489–496
bronchitis, rhinitis	parainfluenza	humans, some other mammals	575	infectious mononucleosis	Epstein-Barr	humans	655
Burkitt's lymphoma	Epstein-Barr	humans	655–657	influenza	influenza	swine, humans (type A)	244, 247, 454, 585–588
cervical cancer	human papillomavirus	humans	245, 520			humans (type B)	244, 247, 454, 586–591
chickenpox	varicella-zoster	humans	558, 248–251, 516–517			humans (type C)	671, 586–591
coryza (common cold)	rhinovirus	humans	244, 574–575	Lassa fever	arenavirus	rodents	657
cytomegalic inclusion disease	coronavirus	humans	574	measles (rubeola)	measles	humans	244, 515–516
Dengue fever	cytomegalovirus	humans	559	meningoencephalitis	herpes	humans	557, 675
encephalitis	Dengue	humans	292, 653–654	molluscum contagiosum	poxvirus group	humans	519
	Colorado tick fever	mammals	292, 658	monkeypox	orthopoxvirus	humans, monkeys	519
	Eastern equine encephalitis	birds	244, 377, 673	mumps	paramyxovirus	humans	606–607
	St. Louis encephalitis	birds	675	pneumonia	adenoviruses, respiratory syncytial virus	humans	578–579
	Venezuelan equine encephalitis	rodents	244, 675				
	Western equine encephalitis	birds	244, 292, 378, 675				
epidemic keratoconjunctivitis	adenovirus	humans	526	poliomyelitis	poliovirus	humans	244, 681–682
fifth disease (erythema infectiosum)	erythrovirus (B19)	humans	245, 658	rabies	rabies	all warm-blooded animals	672–675
hantavirus pulmonary syndrome	bunyavirus	rodents	245, 592	respiratory infections	adenovirus, polyomavirus, bunyavirus (phlebovirus)	humans, none, humans	595, 675, 658
hemorrhagic fever	Ebola virus (filovirus)	humans (?)	245, 657	Rift Valley fever	human herpes virus-6	sheep, cattle, humans	516
	Marburg virus (filovirus)	humans (?)	245, 657	roseola	rubella	humans	244, 514–515
hemorrhagic fever, Bolivian	arenavirus	rodents and humans	657	rubella (German measles)	coronavirus	animal	591
hemorrhagic fever, Korean	bunyavirus (Hantaan)	rodents	245, 657	SARS (sudden acute respiratory syndrome)	varicella-zoster	humans	245, 516–517
hepatitis A (infectious hepatitis)	hepatitis A	humans	244, 617–619	shingles	variola (major and minor)	humans	245, 518–519
hepatitis B (serum hepatitis)	hepatitis B	humans	245, 619	smallpox	rotavirus	humans	616–617
hepatitis C (non-A, non-B)	hepatitis C	humans	620	viral enteritis	human papillomavirus	humans	245, 519–521
hepatitis D (delta hepatitis)	hepatitis D	humans	620	warts, common (papillomas)	human papillomavirus	humans	558–559
hepatitis E (enterically transmitted non-A, non-B, non-C)	hepatitis E	humans	620	warts, genital (condylomas)	West Nile	birds	675
herpes, genital	usually herpes simplex type 2, sometimes type 1	humans	245, 556–557	yellow fever	yellow fever	monkeys, humans, mosquitoes	244, 245, 292, 655

The tables of fungal and parasitic diseases appear on the following page.

Diseases and the Organisms that Cause Them (Concluded)

UNCONVENTIONAL AGENTS

Disease	Agent	Reseivior	Page	Disease	Agent	Reseivior	Page
chronic wasting disease	prion	elk, deer	685	mad cow disease	prion	cattle	685
Creutzfeldt-Jacob disease	prion	humans	683-684	(bovine spongiform encephalopathy)			
kuru	prion	humans	684	scrapie	prion	sheep	684-685

FUNGAL DISEASES

Disease	Organism	Page	Disease	Organism	Page
aspergillosis	<i>Aspergillus</i> sp	523, 594	histoplasmosis	<i>Histoplasma capsulatum</i>	593
blastomycosis	<i>Blastomyces dermatitidis</i>	522	<i>Pneumocystis</i> pneumonia	<i>Pneumocystis carinii</i>	594
candidiasis	<i>Candida albicans</i>	522	ringworm (tinea)	various species of <i>Epidermophyton</i> , <i>Trichophyton</i> , <i>Microsporum</i>	521-522
coccidioidomycosis (San Joaquin valley fever)	<i>Coccidioides immitis</i>	593-594	sporotrichosis	<i>Sporothrix schenckii</i>	522
cryptococcosis	<i>Filobasidiella neoformans</i>	594	zygomycosis	<i>Rhizopus</i> sp., <i>Mucor</i> sp	523
ergot poisoning	<i>Claviceps purpurea</i>	722			

PARASITIC DISEASES

Disease	Organism	Type	Page	Disease	Organism	Type	Page
<i>Acanthamoeba</i> keratitis	<i>Acanthamoeba culbertsoni</i>	protozoan	386	malaria	<i>Plasmodium</i> sp.	protozoan	277, 389, 659-661
African sleeping sickness (trypanosomiasis)	<i>Trypanosoma brucei gambiense</i> and <i>T. brucei rhodesiense</i>	protozoan	293-294, 686-689	pediculosis (lice infestation)	<i>Pediculus humanus</i>	louse	530
amoebic dysentery	<i>Entamoeba histolytica</i>	protozoan	621-622	pinworm	<i>Enterobius vermicularis</i>	roundworm	629
ascariasis	<i>Ascaris lumbricoides</i>	roundworm	627-628	river blindness (onchocerciasis)	<i>Onchocerca volvulus</i>	roundworm	526-527
babesiosis	<i>Babesia microti</i>	protozoan	662	scabies (sarcoptic mange)	<i>Sarcoptes scabiei</i>	mite	530
balantidiasis	<i>Balantidium coli</i>	protozoan	622-623	schistosomiasis	<i>Schistosoma</i> sp.	flatworm	287, 638-640
Chagas' disease	<i>Trypanosoma cruzi</i>	protozoan	292, 687-689	sheep liver fluke	<i>Fasciola hepatica</i>	flatworm	624
chigger dermatitis	<i>Trombicula</i> sp.	mite	530	(fascioliasis)			
chigger infestation	<i>Tunga penetrans</i>	sandflea	530	strongyloidiasis	<i>Strongyloides stercoralis</i>	roundworm	629
Chinese liver fluke	<i>Clonorchis sinensis</i>	flatworm	624	swimmer's itch	<i>Schistosoma</i> sp.	flatworm	525
crab louse	<i>Phthirus pubis</i>	louse	531	tapeworm infestation (taeniasis)	<i>Hymenolepis nana</i> (dwarf tapeworm)	flatworm	625-626
cryptosporidiosis	<i>Cryptosporidium</i> sp.	protozoan	623		<i>Taenia saginata</i> (beef tapeworm)	flatworm	285-286, 288, 625-626
dracunculiasis (Guinea worm)	<i>Dracunculus medinensis</i>	roundworm	289, 525		<i>Taenia solium</i> (pork tapeworm)	flatworm	625-626
elephantiasis (filariasis)	<i>Wuchereria bancrofti</i>	roundworm	289, 640		<i>Diphyllbothrium latum</i> (fish tapeworm)	flatworm	625-626
fasciolopsiasis	<i>Fasciolopsis buski</i>	flatworm	624		<i>Echinococcus granulosus</i> (dog tapeworm)	flatworm	625-626
giardiasis	<i>Giardia intestinalis</i>	protozoan	620-621	toxoplasmosis	<i>Toxoplasma gondii</i>	protozoan	661-662
heartworm disease	<i>Dirofilaria immitis</i>	roundworm	274, 636	trichinosis	<i>Trichinella spiralis</i>	roundworm	274, 289, 626
hookworm	<i>Ancylostoma duodenale</i> (Old World hookworm)	roundworm	727	trichomoniasis	<i>Trichomonas vaginalis</i>	protozoan	544-545
	<i>Necator americanus</i> (New World hookworm)	roundworm	727	trichuriasis	<i>Trichuris trichiura</i>	roundworm	626-628
leishmaniasis	<i>Leishmania braziliensis</i>	protozoan	292, 659	(whipworm)			
kala azar	<i>L. donovani</i>			visceral larva migrans	<i>Toxocara</i> sp.	roundworm	626-628
oriental sore	<i>L. tropica</i>						
liver/lung fluke	<i>Paragonimus westermani</i>	flatworm	286, 594				
(paragonimiasis)							
loaiasis	<i>Loa loa</i>	roundworm	294, 527				