

Additional File 2A. CDC Notifiable Agents (Cellular)

Phylogeny	NCBI Name	Threat List Name or Synonym	Accession
Fungi	Ascomycota	<i>Coccidioides immitis</i>	Coccidioidomycosis
Eukaryota	Alveolata	<i>Cryptosporidium parvum</i>	Cryptosporidiosis http://www.parvum.mic.vcu.edu/
		<i>Cyclospora cayetanensis</i>	Cyclosporiasis
		<i>Plasmodium vivax</i>	Malaria
		<i>Plasmodium falciparum</i>	Malaria NC_004325
	Diplomonadida	<i>Giardia intestinalis</i>	Giardiasis / Giardia lamblia
	Metazoa	<i>Trichinella britovi</i>	Trichinosis ¹⁰⁵
		<i>Trichinella nativa</i>	Trichinosis ¹⁰⁵
		<i>Trichinella nelsoni</i>	Trichinosis ¹⁰⁵
		<i>Trichinella pseudospiralis</i>	Trichinosis ¹⁰⁵
		<i>Trichinella spiralis</i>	Trichinosis ¹⁰⁵
Bacteria	Alphaproteobacteria	<i>Anaplasma phagocytophilum</i>	Human granulocytic ehrlichiosis ^{106,107} NC_004351*
		<i>Brucella melitensis</i>	Brucellosis ¹⁰⁸ NC_003317 NC_003318
		<i>Brucella melitensis biovar Abortus</i>	Brucellosis ¹⁰⁸
		<i>Brucella melitensis biovar Suis</i>	Brucellosis ¹⁰⁸ NC_004310 NC_004311
		<i>Brucella melitensis biovar Canis</i>	Brucellosis ¹⁰⁸
		<i>Ehrlichia chaffeensis</i>	Human monocytic ehrlichiosis ¹⁰⁹ NC_004127*
		<i>Ehrlichia canis</i>	Ehrlichiosis ¹⁰⁹
		<i>Ehrlichia ewingii</i>	Ehrlichiosis ¹¹⁰
		<i>Neorickettsia sennetsu</i>	Ehrlichiosis ¹¹⁰
		<i>Rickettsia rickettsii</i>	Rocky Mountain Spotted Fever ¹¹¹ NZ_AADJ01000001
	Betaproteobacteria	<i>Bordetella pertussis</i>	Pertussis NC_002929
		<i>Neisseria gonorrhoeae</i>	Gonorrhea NC_002946
		<i>Neisseria meningitidis</i>	Meningococcal disease ¹¹² NC_003112 NC_003116
	Gammaproteobacteria	<i>Coxiella burnetii</i>	Q Fever NC_002971
		<i>Escherichia coli</i>	Enterohemorrhagic E. coli, Shiga-toxin positive non-0157
		<i>Escherichia coli O157:H7</i>	Enterohemorrhagic E. coli, O157:H7 Hemolytic uremic syndrome, post-diarrheal NC_002695 NC_002655
		<i>Francisella tularensis</i>	Tularemia
		<i>Haemophilus ducreyi</i>	Chancroid NC_002940
		<i>Haemophilus influenzae</i>	Haemophilus influenzae, invasive disease NC_000907
		<i>Legionella pneumophila</i>	Legionellosis NC_002942* http://genome3.cpmc.columbia.edu/~legion/
		<i>Salmonella enteritidis</i>	Salmonellosis ¹¹³ NC_002962
		<i>Salmonella typhi</i>	Typhoid fever NC_003198* http://www.sanger.ac.uk/Projects/S_typhi/
		<i>Salmonella typhimurium</i>	Salmonellosis ¹¹³ NC_003197
		<i>Shigella boydii</i>	Shigellosis ¹¹⁴
		<i>Shigella dysenteriae</i>	Shigellosis ¹¹⁴ Hemolytic uremic syndrome, post-diarrheal NC_004510* http://www.sanger.ac.uk/Projects/Escherichia_Shigella/
		<i>Shigella flexneri</i>	Shigellosis ¹¹⁴ NC_004337 NC_004741
		<i>Shigella sonnei</i>	Shigellosis ¹¹⁴ NC_004511* http://www.sanger.ac.uk/Projects/Escherichia_Shigella/
		<i>Vibrio cholerae O1</i>	Cholera NC_002505 NC_002506
		<i>Vibrio cholerae O139</i>	Cholera
		<i>Yersinia pestis</i>	Plague NC_003143 NC_004088
	Firmicutes	<i>Bacillus anthracis</i>	Anthrax NC_003997 NC_003995*
		<i>Clostridium botulinum</i>	Botulism NC_003223* http://www.sanger.ac.uk/Projects/C_botulinum/
		<i>Clostridium tetani</i>	Tetanus NC_004557
		<i>Listeria monocytogenes</i>	Listeriosis NC_003210
		<i>Staphylococcus aureus</i>	Toxic-shock syndrome Vancomycin intermediate / resistant S. aureus NC_002745 NC_002758 NC_003923
		<i>Streptococcus pneumoniae</i>	Streptococcus pneumoniae, invasive Streptococcus pneumoniae, invasive, children <5 NC_003028 NC_003098
		<i>Streptococcus pyogenes</i>	Streptococcal disease, invasive, group A ¹¹⁵ Streptococcal toxic-shock syndrome NC_002737 NC_003485 NC_004070 NC_004606
	Actinobacteria	<i>Corynebacterium diphtheriae</i>	Diphtheria NC_002935
		<i>Mycobacterium leprae</i>	Hansen disease (leprosy) NC_002677
		<i>Mycobacterium tuberculosis</i>	Tuberculosis NC_002755 NC_000962
	Chlamydia	<i>Chlamydia psittaci</i>	Psittacosis
		<i>Chlamydia trachomatis</i>	Chlamydia trachomatis, genital infections NC_000117
	Spirochaetes	<i>Borrelia burgdorferi</i>	Lyme disease NC_001318
		<i>Treponema pallidum</i>	Syphilis Syphilis, congenital NC_000919

Additional File 2B. CDC Notifiable Agents (Viral)

<i>Phylogeny</i>	<i>NCBI Name</i>	<i>Threat List Name or Synonym</i>		<i>Accession</i>				
DNA Virus	Herpesviridae	<i>Human herpesvirus 3</i>	Varicella (morbidity)	Varicella (deaths only)	NC_001348			
	Poxviridae	<i>Variola major virus</i>	Smallpox		NC_001611			
- Strand RNA Virus	Bunyaviridae	<i>Andes virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶		NC_003468	NC_003467	NC_003466	
		<i>Araraquara virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Bayou virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Bermejo virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Black Creek Canal virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>California encephalitis virus</i>	Encephalitis/meningitis, California serogroup					
		<i>Castelo dos Sonhos virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>HU39694 virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Laguna Negra virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Lechiguanas virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>New York virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Oran virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶					
		<i>Sin Nombre virus</i>	Hantavirus Pulmonary Syndrome ¹¹⁶			NC_005217	NC_005215	NC_005216
			Paramyxoviridae	<i>Measles virus</i>	Measles		NC_001498	
<i>Mumps virus</i>	Mumps				NC_002200			
<i>Rabies virus</i>	Rabies, human			Rabies, animal	NC_001542			
+ Strand RNA Virus	Flaviviridae	<i>Hepatitis C</i>	Hepatitis C, acute	Hepatitis C Virus Infection	NC_004102			
		<i>Powassan virus</i>	Encephalitis/meningitis, Powassan		NC_003687			
		<i>St. Louis encephalitis virus</i>	Encephalitis/meningitis, St. Louis					
		<i>West Nile virus</i>	Encephalitis/meningitis, West Nile		NC_001563			
		<i>Yellow fever virus</i>	Yellow fever		NC_002031			
	Coronaviridae	<i>SARS Coronavirus</i>	Severe Acute Respiratory Syndrome-associated Coronavirus (SARS-CoV) disease		NC_004718			
	Picornaviridae	<i>Hepatitis A virus</i>	Hepatitis A, acute		NC_001489			
		<i>Poliovirus</i>	Poliomyelitis, paralytic		NC_002058			
	Togaviridae	<i>Eastern equine encephalitis virus</i>	Encephalitis/meningitis, Eastern equine		NC_003899			
		<i>Rubella virus</i>	Rubella	Rubella, congenital syndrome	NC_001545			
<i>Western equine encephalomyelitis virus</i>		Encephalitis/meningitis, Western equine		NC_003908				
Retroid virus	Hepadnaviridae	<i>Hepatitis B virus</i>	Hepatitis B virus, perinatal infection	Hepatitis B, acute	Chronic Hepatitis B	NC_003977		
		Retroviridae	<i>Human immunodeficiency virus 1</i>	AIDS	HIV infection, pediatric	HIV infection, adult	NC_001802	
		<i>Human immunodeficiency virus 2</i>	AIDS	HIV infection, pediatric	HIV infection, adult	NC_001722		