

**TABLE 214e-1 VIRUS FAMILIES PATHOGENIC FOR HUMANS**

Family	Representative Viruses	Type of RNA/DNA	Lipid Envelope
<b>RNA Viruses</b>			
Picornaviridae	Poliovirus	(+) RNA	No
	Coxsackievirus		
	Echovirus		
	Enterovirus		
	Rhinovirus		
Caliciviridae	Hepatitis A virus	(+) RNA	No
	Norovirus		
Togaviridae	Hepatitis E virus	(+) RNA	Yes
	Rubella virus		
Flaviviridae	Eastern equine encephalitis virus	(+) RNA	Yes
	Western equine encephalitis virus		
	Yellow fever virus		
	Dengue virus		
	St. Louis encephalitis virus		
Coronaviridae	West Nile virus	(+) RNA	Yes
	Hepatitis C virus		
Rhabdoviridae	Hepatitis G virus	(+) RNA	Yes
	Coronaviruses <sup>a</sup>		
Filoviridae	Rabies virus	(–) RNA	Yes
	Vesicular stomatitis virus		
Paramyxoviridae	Marburg virus	(–) RNA	Yes
	Ebola virus		
	Parainfluenza virus		
	Respiratory syncytial virus		
	Newcastle disease virus		
Orthomyxoviridae	Mumps virus	(–) RNA, 8 segments	Yes
	Rubeola (measles) virus		
Bunyaviridae	Influenza A, B, and C viruses	(–) RNA, 3 circular segments	Yes
	Hantavirus		
Arenaviridae	California encephalitis virus	(–) RNA, 2 circular segments	Yes
	Sandfly fever virus		
	Lymphocytic choriomeningitis virus		
Reoviridae	Lassa fever virus	ds RNA, 10–12 segments	No
	South American hemorrhagic fever virus		
Retroviridae	Rotavirus	(+) RNA, 2 identical segments	Yes
	Reovirus		
	Colorado tick fever virus		
Hepadnaviridae	Human T lymphotropic virus types 1 and 2	ds DNA with ss portions	Yes
	Human immunodeficiency virus types 1 and 2		
Parvoviridae	Parvovirus B19	ss DNA	No
Papillomaviridae	Human papillomaviruses	ds DNA	No
Polyomaviridae	JC virus	ds DNA	No
	BK virus		
	Merkel cell polyoma virus		
	Human adenoviruses		
Herpesviridae	Human adenoviruses	ds DNA	Yes
	Herpes simplex virus types 1 and 2 <sup>b</sup>		
	Varicella-zoster virus <sup>c</sup>		
	Epstein-Barr virus <sup>d</sup>		
	Cytomegalovirus <sup>e</sup>		
	Human herpesvirus 6		
	Human herpesvirus 7		
	Kaposi's sarcoma-associated herpesvirus <sup>f</sup>		
Poxviridae	Variola (smallpox) virus	ds DNA	Yes
Poxviridae	Orf virus	ds DNA	Yes
	Molluscum contagiosum virus		

<sup>a</sup>Including the coronaviruses causing severe acute respiratory syndrome (SARS) and Middle Eastern respiratory syndrome (MERS). <sup>b</sup>Also called human herpesvirus 1 (HHV-1) and HHV-2, respectively. <sup>c</sup>Also called HHV-3. <sup>d</sup>Also called HHV-4. <sup>e</sup>Also called HHV-5. <sup>f</sup>Also called HHV-8.

**Abbreviations:** ds, double-strand; ss, single-strand.