

TABLE 4

CANCER-CAUSING PATHOGENS

Bacteria

Infectious Agent	Cancer	% of global cancer cases attributable to infection*
<i>Helicobacter pylori</i>	Stomach cancers	32.5

Parasites

Infectious Agent	Cancer	% of global cancer cases attributable to infection*
<i>Clonorchis sinensis</i>	Biliary, gallbladder, and pancreatic cancers	0.1
<i>Opisthorchis viverrini</i>	Biliary, gallbladder, and pancreatic cancers	
<i>Schistosoma haematobium</i>	Bladder cancer	0.3

Viruses

Infectious Agent	Cancer	% of global cancer cases attributable to infection*
Epstein-Barr virus (EBV)	Hodgkin and certain non-Hodgkin lymphomas, and stomach and nasopharyngeal cancers	5.4
Hepatitis B/C viruses (HBV and HCV)	Hepatocellular carcinoma	29.5
Human herpes virus type-8 (HHV-8; also known as Kaposi sarcoma herpes virus)	Kaposi sarcoma and certain form of lymphoma	2.1
Human immunodeficiency virus (HIV)	Kaposi sarcoma and non-Hodgkin lymphoma	
Human papillomavirus (HPV)	Anal, cervical, head and neck, oral, penile, vaginal, and vulvar cancers	30
Human T-cell lymphotropic virus, type-1 (HTLV-1)	T-cell leukemia and lymphoma	0.1
Merkel cell polyomavirus (MCV)	Merkel cell carcinoma	

* where known

data from Ref 95