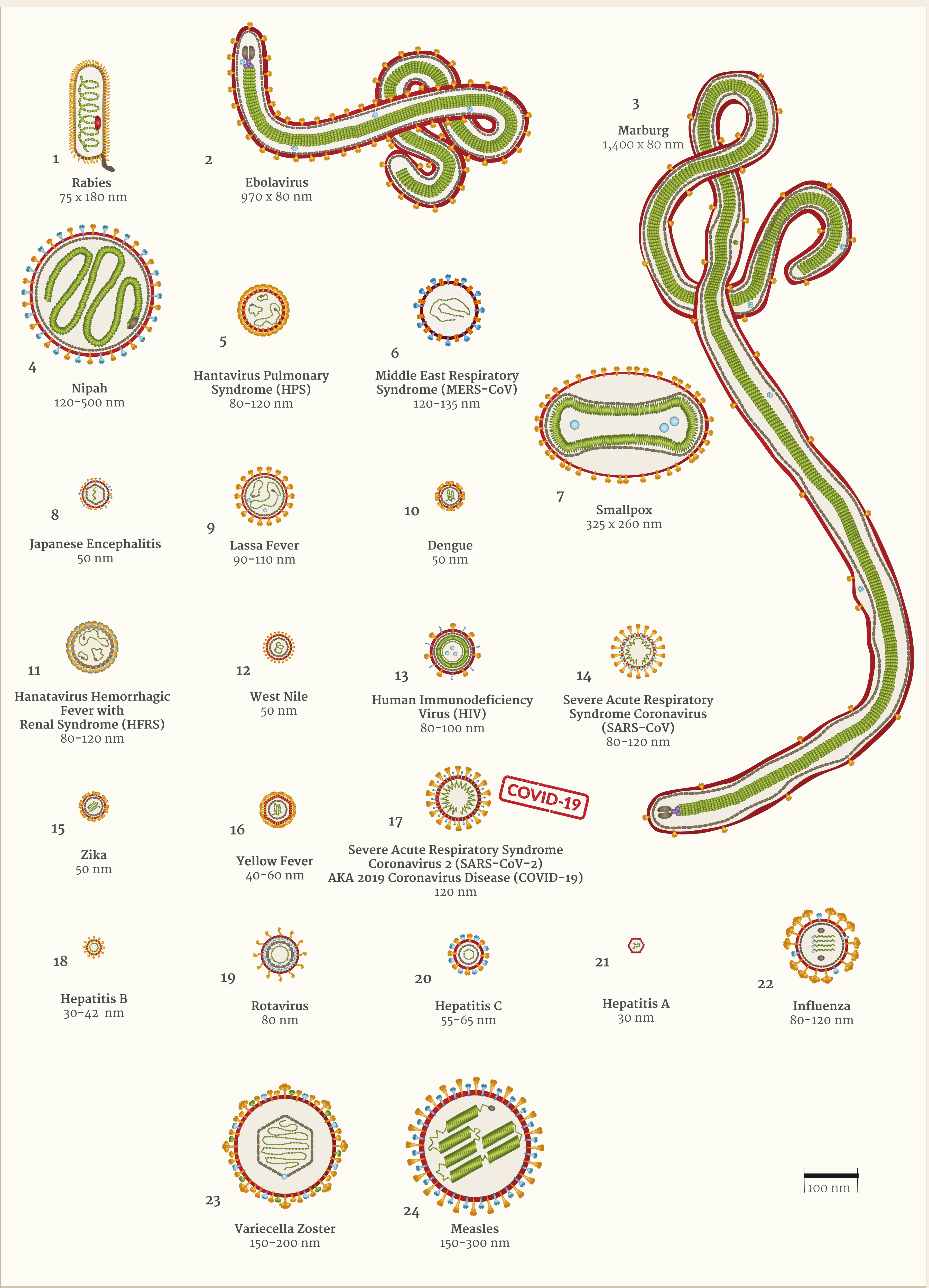


HISTORY'S DEADLIEST VIRUSES

ILLUSTRATED TO SCALE



Virus	Virus Family	Year Discovered	Carrier of the Virus	Human-to-Human Transmission	Mode of Transmission	Incubation Period	Mortality Rate (if untreated)	Death Toll	Vaccine
1 Rabies	<i>Rhabdoviridae</i>	2300 B.C.		yes	bodily fluids (saliva)	20 - 90 days	100%	55,000 annually	yes (if treated immediately)
2 Ebolavirus	<i>Filoviridae</i>	1976		yes	blood and bodily fluids	2 - 21 days	60%-90%	15,230 (11,000 from 2014-2016 outbreak)	no
3 Marburg	<i>Filoviridae</i>	1967		yes	blood and bodily fluids	2 - 21 days	50%-90%	368 total	no
4 Nipah	<i>Paramyxoviridae</i>	1999		yes	blood and bodily fluids	5 - 14 days	50%-75%	350-525 total	no
5 Hantavirus Pulmonary Syndrome (HPS)	<i>Bunyaviridae</i>	1993		no	airborne spread	9 - 33 days	38%	27 total	no
6 Middle East Respiratory Syndrome (MERS-CoV)	<i>Coronaviridae</i>	2012		yes	blood and bodily fluids (uncertain due to limited info)	2 - 14 days	37%	858 total	no
7 Smallpox	<i>Poxviridae</i>	10,000 B.C. Eradicated in 1980		yes	droplet spread (saliva)	7 - 17 days	33%	300-500 million (just in 20th century)	yes
8 Japanese Encephalitis	<i>Flaviviridae</i>	1871		no	only by mosquito bite	5 - 15 days	30%	13,600-20,400 annually	no
9 Lassa Fever	<i>Arenaviridae</i>	1969		yes	blood and bodily fluids	6 - 21 days	15%-50%	5,000 annually	no
10 Dengue	<i>Flaviviridae</i>	1943		no	only by mosquito bite	3 - 15 days	2.5%-20%	22,000 annually	no
11 Hanatavirus Hemorrhagic Fever with Renal Syndrome (HFRS)	<i>Bunyaviridae</i>	1950s		no	only by rodents	7 - 39 days	5%-15%	47,000 total	no
12 West Nile	<i>Flaviviridae</i>	1937		no	only by mosquito bite	2 - 14 days	3%-15%	Thousands (2,000 in the U.S. alone)	no
13 Human Immunodeficiency Virus (HIV)	<i>Retroviridae</i>	1981		yes	blood and bodily fluids, perinatal transmission	HIV: 2 - 4 weeks AIDS: up to 10 years	11% at peak 0.26% now	36 million total	no
14 Severe Acute Resp. Syndrome Coronavirus (SARS-CoV)	<i>Coronaviridae</i>	2003		yes	droplet spread	2 - 7 days	10%	774 total	no
15 Zika	<i>Flaviridae</i>	1947		yes (only during pregnancy)	transmitted by mosquito bite, perinatal transmission	3 - 14 days	8.3%	N/A (mainly infant deaths)	no
16 Yellow Fever	<i>Flaviridae</i>	1900		no	only by mosquito bite	3 - 6 days	8%	30,000 annually	yes
17 Severe Acute Resp. Syndrome Coronavirus 2 (SARS-CoV-2)	<i>Coronaviridae</i> COVID-19	2019		yes	droplet spread	2 - 10 days (initial estimate)	6%	7,100+ (as of 3/16/20)	no
18 Hepatitis B	<i>Hepadnaviridae</i>	1967		yes	blood and bodily fluids	30 - 180 days	3%-4%	884,000 annually	yes
19 Rotavirus	<i>Reoviridae</i>	1973		yes	fecal-oral spread	1 - 3 days	2%	450,000 annually	yes
20 Hepatitis C	<i>Flaviviridae</i>	1989		yes	bloodborne spread, sexual contact, perinatal transmission	14 - 180 days	1%-5%	399,000 annually	no
21 Hepatitis A	<i>Picornaviridae</i>	1973		yes	fecal-oral spread, sexual contact	14 - 28 days	1%	5,000-10,000 annually	yes
22 Influenza	<i>Orthomyxoviridae</i>	1918		yes	airborne spread	1 - 4 days	0.14%	12,000-61,000 annually but only covers 40% of strains	yes
23 Varicella Zoster (chickenpox, shingles)	<i>Herpesviridae</i>	1658		yes	contact spread, droplet spread	10 - 21 days	0.5%	4,200 annually	yes
24 Measles	<i>Paramyxoviridae</i>	7th century		yes	droplet spread	10 - 12 days	0.2%	2.6 million annually before vaccine	yes

