Summary of the reported information on human health impact associated with arboviruses listed in Table 1.

Family Genus	Virus	Symptoms ^a	Incubation period	Vaccine	Circ. ^b	Reported in travelers	Reported seroprevalance in local population	Background info available	Considered under diagnosed	Human-to- human transmis- sion reported	Ref.
Bunyaviridea Nariovirus	Crimean-Congo hemorrhagic	FD, HS, (NS)	1-3 (1-9)	Yes	R	Yes	High: 5–13%	Yes	Yes	Yes	14,17,29,50,149
Orthobunyavirus	fever Bwamba virus Bunyamwera	FD, AR, (NS) FD, AR, (NS)	1–14 Unknown	No No	R R	No No	High: 2, 6–80% High: up to 100%	Little Little	Yes Yes	No No	26,27,61 25,121
	virus Guaroa virus Ilesha virus Ngari virus	FD, AR FD, AR (NS, HS) FD, AR, HS	Unknown Unknown Unknown	No No No	R R (U) R	No Yes No	High: 13–18% High: 38–54% Unknown: in a recent RVFV outbreak 27% of infections turnout to be	Little Little Little	Yes Yes Yes	No No No	57,60 62,120 121,122
	La cross virus Tahyna virus	FD, NS FD, AR, (NS) conjunctivitis, bronchopneu- mia	5–15 3–7	No No	R U	No No	NRIV High: 2–13% High: 60–80%	Yes Little	Yes Yes	No No	52,123,150–15 53,124,125,153
	Oropouche virus	FD, AR, (NS)	4-8	No	R, U	No	High: 15-60%	Yes	Yes	No	51,58,60
	Tataguine virus	FD, AR	Unknown	No	R	No	High: one of the five most isolated viruses in West Africa in humans	Little	Yes	No	64,127
Phlebovirus	Toscana virus Sandfly fever Naples/Sicilian	FD, NS, (AR) FD	2–14 2–14	No No	R R	Yes Yes	High: 5–51% High: 3–36%	Yes Yes	No No	No No	54,154 55,155
	Rift valley fever virus	FD, HS, NS, hepatitis	1–7	No	R	Yes	High: 2–14%	Yes	No	Yes (contact with animal products)	13,50,128,156
Flavivirus Flavivirus	Dengue virus	FD, HS, AR	4-7 (3-14)	No	R, U	Yes 3–8% travelers returning with FD	High: most diagnosed arbovirus disease world-wide	Yes	Yes	Yes	5-7,69,160-16
	Japanese encephalitis virus	FD, NS	5-14	Yes	R, U	Yes 1 in a million or 1 in 20,000	High: >45.000 cases annually world-wide	Yes	Yes	No	103,163
	West Nile virus	FD, NS, (AR)	3-5 (2-14)	No	R, U	Yes	High: One of the most common arbovirus diseases world-wide	Yes	No	Yes	19,20,131,164
	St. Louis encephalitis virus	FD, NS	2-21	No	R, U	No	High: 3–13%	Yes	Yes	No	134,152

	Murray Valley	FD, NS	1–28	No	R	Yes	High: up to 40%	Yes	No	No	135,165-167
	virus	FD, INS	1-28	INU		ies	nigii. up to 40%	ies	NO	INU	
	Kyasanur Forest disease virus	FD, HS, conjunctivitis, pneumonia	3-8	Yes	R	No	Unknown: local monkey population 18–50% positive	Yes	No	No	136,137
	Alkhurma hemorrhagic fever virus	FD, HS	3–12	No	R	Yes	Low: 1, 3%	Yes	No	No	138,168,169
	Tick-borne encephalitis virus	FD, NS, (HS)	7–14	Yes	R	Yes 1:10,000 man/month	High: incidence rate of 0.1 to >5: 100.000 in endemic countries	Yes	Yes	Yes	170–173
	Ilheus virus Yellow fever virus	FD, NS FD, HS, hepatitis	Unknown 3–6	No Yes	R R, U	No Yes 1:280 Africa 1:2800 SA in epidemic areas	High: 3, 4–26% High: 200.000 cases annually world-wide	Little Yes	Yes No	No Yes	174,175 29,50,176–179
Reoviridea Coltivirus	Colorado tick fever virus	FD, NS, AR, HS	3-5 (0-20)	No	R	Yes	Unknown: 200–400 reported cases	Yes	Yes	Yes	36,180,181
Seadronvirus	Banna virus	FD, AR, NS	Unknown	No	R	No	annually Unknown	Little	Yes	No	38
Togaviridea Alphaviruses	Barmah Forest	FD, AR	7-9 (5-2)	No	R, U	No	High: incidence rate of	Yes	No	No	135,140
	virus						4 to 40: 100.000 annually. 500–800 reported cases annually				
	Eastern equine encephalitis virus	FD, NS	3–10	No	R	Yes	Unknown: 3–21 cases annually in the US	Little	No	No	182
	Chikungunya virus	FD, AR, (HS, NS) conjunctivitis	3-7 (1-12)	No	R, U	Yes	High: up to 75%	Yes	No	No	4,145,183-186
	Mayaro virus O'Nyong Nyong virus	FD, AR, (HS) FD, AR	6–12 (3–12) >8	No No	R, U R, U	Yes No	High: 5–60% High: 31–68%	Yes Little	Yes No	No No	60,89,187–189 144,145
	Ross river virus	FD, AR, (HS)	7-9 (3-21)	No	R, U	Yes 100 per year to New Zealand	High: 8–65%	Yes	No	No	91,135,140
	Sindbis virus Western equine encephalitis	FD, AR FD, NS	1–7 2–10	No No	R R	Yes No	High: 5–27% Unknown: <10 cases annually in US	Yes Little	Yes No	No No	53,82,83,146 40,127,147
	virus Venezuelan equine encephalitis virus	FD, NS	<1-5	No	R	No	High: 30–50% during an epidemic. 23% outside epidemics. Up to 10% of dengue cases are thought to be VEEV in the Americas	Little	Yes	No	40,60,148,190,191

^a Symptoms: FD, febrile disease; AR, arthralgia and/or rash; HS, hemorrhagic syndrome; NS, neurological syndrome.
^b Circulation: R, rural; U, urban.