

Table S1. Vector-borne diseases of importance based upon health and economical impact.

Disease	Pathogen	Vector	Estimated Number of Affected Individuals (Per Year)	Mortality	References
1. Malaria	<i>Plasmodium spp.</i>	<i>Anopheles gambiae</i>	216 million	655, 000	1. http://www.who.int/malaria/world_malaria_report_2011/en/
2. Lymphatic filariasis	<i>Wuchereria bancrofti</i> <i>Brugia spp.</i>	<i>Culex spp.</i> <i>Anopheles spp.</i> <i>Aedes spp.</i> <i>Mansonia spp.</i>	120 million	---	1. http://www.cdc.gov/parasites/lymphaticfilariasis/gen_info/faqs.html
3. Dengue fever	Dengue virus	<i>Aedes aegypti</i> <i>Aedes albopictus</i>	50 million	22,000	1. http://www.cdc.gov/Dengue/epidemiology/index.html 2. http://www.who.int/csr/disease/dengue/impact/en/
4. Leishmaniasis	<i>Leishmania spp.</i>	<i>Lutzomyia longipalpis</i>	12-15 million	60, 000	1. http://www.who.int/vaccine_research/diseases/vector/en/index3.html
5. Chagas disease	<i>Trypanosoma cruzi</i>	<i>Rhodnius prolixus</i>	10 million	> 10,000	1. http://www.who.int/mediacentre/factsheets/fs340/en/
6. Yellow fever	Yellow fever virus	<i>Aedes aegypti</i>	200,000	30, 000	1. http://www.who.int/mediacentre/factsheets/fs100/en/
7. Lyme Borreliosis	<i>Borrelia burgdorferi</i>	<i>Ixodes spp.</i>	110,000 **	1 **	1. http://www.euro.who.int/__data/assets/pdf_file/0006/96819/E89522.pdf 2. http://health.nytimes.com/health/guides/disease/lyme-disease/risk-factors.html 3. http://www.cdc.gov/lyme/stats/index.html
8. West Nile neuroinvasive disease	West Nile virus	<i>Culex quinquefasciatus</i>	*	*	1. http://www.who.int/mediacentre/factsheets/fs354/en/ 2. http://www.cdc.gov/ncidod/dvbid/westnile/qa/cases.htm

* Estimates are not available

** Estimates in the United States and Europe

--- Not applicable