

Supplementary material: Table S1 - Socio-environmental variables found in the research and considered predictors for the incidence of Dengue, Zika, Chikungunya and/or for the proliferation of vectors of the genus *Aedes* through the abundance of breeding sites.

Article	Mainland region	Variables																Evaluated arboviruses/ Vector	People involved		Incidence of arboviruses
		Sanitation				Climatologic					Integrative								Number of cases	Period/year considered	
		Water	Solid Waste	Sewage	Draining	Rainfall	Temperature	Relative humidity	OMV*	Climate Type**	Sociodemographic	Socioeconomic	Geography	Housing	Soil use***	Sociocultural	Altitude				
[49]	South America	AG1, AG4: p<0,01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Aedes aegypti	-	-	-
[53]	Southeast Asia	AG4: p<0,01	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	Aedes aegypti	-	-	-
[87]	South America	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Aedes aegypti	-	-	-
[71]	Southeast Asia	AG1: OR = 3,46	X	-	-	-	-	-	-	-	X	-	-	-	-	X	-	Dengue (FHD)	341	2007	88,5 % SDenv
[67]	Southeast Asia	AG1: OR = 0,91	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	Dengue	≥194	2011	4,07 %SDenv
[58]	Central America	-	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	Aedes aegypti	-	-	-
[70]	Southeast Asia	AG4: OR = 1,53	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Chikungunya	84	2012	69 % Chikv
[88]	Southeast Asia	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	Dengue (FHD)	-	-	-
[81]	Southeast Asia	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	Dengue (FHD)	-	-	-
[74]	South America	AG2: p<0,05	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	Dengue	72060	2010 to 2014	64,0 % SDenv
[60]	West Asia	-	-	-	X	-	-	-	-	-	X	-	X	-	-	-	-	Dengue	650	2007	37,5 % SDenv
[59]	South Asia	AG4: OR = 5,61	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	Chikungunya	898	2007	39,9 % Chikv
[66]	Southeast Asia	AG4: p = 0,015	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	Dengue	-	-	-
[78]	South America	AG1: p=0,0431	X	X	-	X	X	X	-	-	X	-	-	-	-	-	-	Dengue	551206	2001 to 2012	-
[72]	South America	-	X	X	-	-	-	-	-	X	X	X	-	-	-	-	-	Dengue	-	-	Average 250/100.000 inhab.
[89]	South Asia	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Dengue	86000	2006 to 2017	-
[82]	South America	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	Dengue	79455	2016	-
[77]	South Asia	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Dengue	-	-	-
[76]	South America	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	Dengue	-	-	>300/100.000 inhab.
[63]	Asia (many countries)	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	Dengue	-	-	-
[64]	Eastern Asia	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Dengue	-	-	-
[62]	South Asia	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Dengue	5724	2008	-
[55]	Southeast Asia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dengue (FHD)	-	-	-
[51]	South America	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	Dengue	12008	1997 to 2002	-
[54]	South America	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	Aedes aegypti	-	-	-
[83]	South Asia	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	Dengue	-	-	-
[90]	South America	-	X	-	-	X	X	X	-	-	-	-	-	-	-	-	-	Dengue, Chikungunya	Denv (1323); Chikv (1705)	2016 to 2019	-
[96]	South America	-	X	-	-	X	X	-	-	-	X	-	-	-	X	-	-	Aedes aegypti	-	-	-
[85]	Southeast Asia	-	X	-	-	X	X	-	-	-	-	-	-	X	-	-	-	Dengue (FHD)	349	2014	-
[79]	South America	AG1: Zikv (5,7); Chikv (15,1)	X	X	X	X	X	-	-	-	X	-	-	-	X	-	X	Zika, Chikungunya	Zikv (255229), Chikv (285700)	2015 to 2016	-
[68]	Southeast Asia	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Dengue	-	-	-
[65]	South America	-	-	-	-	-	X	-	-	-	X	-	X	-	-	-	-	Dengue	-	-	-
[86]	South Asia	-	-	-	X	-	X	X	X	-	-	-	X	-	X	-	-	Dengue	-	-	-
[75]	South America	AG1: r=-0,47; p<0,000	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	Dengue, Zika, Chikungunya	3916	2015 to 2016	SDenv (43,8 %); SZikv (55,4%); SChikv (<1 %)
[84]	Central America	AG1,AG4: p<=0,01	X	X	X	-	-	-	-	-	-	X	X	-	-	-	-	Aedes aegypti	-	-	-
[50]	South Asia	AG4: r²=0,958	X	-	-	-	-	-	-	-	-	X	-	X	-	X	-	Dengue	-	-	-
[92]	South Asia	AG4: risco alto (>15 dias)	X	-	-	-	-	-	-	-	-	X	-	-	-	X	-	Aedes aegypti	-	-	-
[93]	South America	-	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	Dengue, Zika, Chikungunya	Denv (4681); Zikv (2220), Chikv (1366)	2015 to 2016	-
[69]	South America	AG3: DIC=519,022	X	-	-	-	-	-	-	-	X	X	-	-	-	-	-	Dengue	21933	2010	623,99/100.000 inhab.
[95]	South America	AG1: p<0,001	-	X	-	X	-	-	-	-	-	X	-	-	-	-	-	Zika	39331	2015 to 2016	-
[80]	South America	AG2: IRR=1,009	X	X	-	X	X	-	-	-	-	X	-	X	-	-	-	Dengue	98339	2011 to 2015	192-1360/100.000 inhab.
[98]	South America	AG3: p<0,413	X	X	-	-	-	-	-	-	X	-	-	X	-	-	-	Dengue	660	2018	-
[94]	South America	-	-	-	-	-	X	X	X	-	X	X	-	-	-	-	X	Dengue, Zika, Chikungunya	Denv (10935); Zikv (887), Chikv (242)	2007 to 2017	Average 4.021,3 /100.000 inhab.
[97]	South Asia	AG2: OR=3,80	-	-	-	-	X	-	-	-	X	X	-	-	-	-	-	Dengue	160	2013 to 2015	7,6 % SDenv
[91]	North Africa	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Dengue	66	2016 to 2017	42,04 % SDenv
[73]	South America	-	-	X	-	-	-	-	-	-	X	X	X	-	-	-	-	Dengue	11760	2010	4,86/100 inhab.
[61]	South Asia	AG1: p=0,002	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	Dengue	109	2011	71,5 % SDenv
[57]	Southeast Asia	AG3: p<0,001	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Dengue (FHD)	-	-	<400/100.000 inhab.
[56]	North America	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-	Dengue	600	2004	40,0 % SDenv
[52]	South America	AG1: r=-0,30	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	Dengue	-	-	-
Total		44% (22/50)	38% (19/50)	18% (8/50)	10% (5/50)	42% (21/50)	38% (19/50)	18% (9/50)	8% (4/50)	2% (1/50)	40% (20/50)	30% (15/50)	14% (7/50)	8% (4/50)	6% (3/50)	6% (3/50)	4% (2/50)	-	1,543.387	1997 - 2019	-

Note: [reference]; Proportion with piped water = AG1; Scarce access to city water infrastructure = AG2; Proportion of permanent particular households whose water supplying method does notpass through the city water system = AG3; Presence of recipient with water and larvae (tires, pots, flower vases and barrels) = AG4; *Other meteorological variables (Wind speed, gust, sunlight hours, dew points and saturation deficit); **Tropical, subtropical and semi-arid.; ***Urbanized area, agricultural area and grassland; Odds Ratio = OR; Deviance Information Criterion = DIC; incidente rate ratios = IRR; Dengue Hemorrhagic Fever = FHD; seropositivity for dengue virus (Denv) = SDenv; seropositivity for Zika virus (Zikv) = SZikv; seropositivity for chikungunya virus (Chikv) = SChikv.