

Table S1. Case Studies reporting joint signs/symptoms

Authors	Country reported	No. of confirmed Zika cases	No. of cases reporting joint manifestations	Affected joint	Arthralgia duration (days)	Arthritis duration	Age (arthralgia/arthritis +ve patients)	Sex	Co-morbidities	Lab confirmation by	Reference
Acosta-Reyes et al., 2017	Colombia	2	1		14		24	Female		rRT-PCR	[1]
Arsuaga et al., 2016	Spain	2	2			7, 5	53, 51	1 Male & 1 Female		RT-PCR	[2]
Aspahan et al., 2019	Brazil	1	1				35	Male	dengue fever 18 months prior (confirmed by serology at the time)	Zika PCR	[3]
Bachiller-Luque et al., 2016	Spain	1	1	Fingers, right knee, ankle and elbow		5	49	Male	irritable bowel syndrome, hypertension and dyslipidemia	RT-PCR	[4]
Bhatnagar et al., 2017	United States, Brazil, Columbia	32	9					9 Female		RT-PCR	[5]
Brust et al., 2014	United States	1	1		2		35	Female	otherwise healthy	IgM, PRNT	[6]

Calleri et al., 2016	Italy	2	2		7,4		29, 31	1 Male, 1 Female		IgM/IgG and neutralisation	[7]
Candelo et al., 2019	Colombia	2	1				25	Female		RT-PCR	[8]
Cardona-Cardona et al., 2016	Colombia	1	1		2		55	Female	previously healthy	RT-PCR	[9]
Cassuto et al., 2018	France	1	1		5			Male		qRT-PCR, IgG and IgM	[10]
Cavalcanti et al., 2017	Brazil	4	3	Arthralgia- ankle and knee, arthritis- fingers and toes	5,7,5	arthritis- 3days	42,28,33	All Female		Real-time reverse transcriptase PCR RT-PCR	[11]
Chang et al., 2018	Colombia	18	13				Inconclusive	Inconclusive		Neutralization assay	[12]
Chen et al., 2017	United States	1	1				23	Female		RT-PCR	[13]
Colavita et al., 2018	Italy	1	1		7		Not given	Female	rheumatoid arthritis	genome sequencing PCR	[14]
Cosano-Quero et al., 2018	Spain	3	1	Small joint			46	Male			[15]
Davidson, 2016	United States	2	2				20s	Female, Male		rRT-PCR	[16]
de Oliveira et al., 2018	Brazil	1	1		2		50	Female		RT-PCR, sequencing	[17]
Derrington et al., 2016	United States	1	1	Wrists, knees, ankles	4		44	Male		RT-PCR, IgM	[18]
Díaz-Quíñonez et al., 2016	Mexico	1	1				26	Male		RT-PCR, sequencing	[19]
D'Ortenzio et al., 2016	France	2	1		7		24	Female	previously healthy	RT-PCR	[20]

do Rosario et al., 2016	Brazil	2	1		5	22	Male		IgM, PRNT	[21]
Duijster et al., 2016	Netherlands	18	13			61, 31, 60, 33, 46, 47, 61, 54, 56, 61, 60, 54, 40	3 Males & 10 females		RT-PCR	[22]
Edupuganti et al., 2017	United States	1	1	Hips and knees	3 and recurrent 14	60	Male	presumed nonalcoholic steatohepatiti s, thrombocytopenia of unknown etiology, hypertension, obesity, and obstructive sleep apnea	rRT-PCR	[23]
Estofolete et al., 2016	Brazil	13	5			23, 41, 49, 67, 19	Female, Male, Female, Male, Female		ZIKV RT-PCR	[24]
Fabrizius et al., 2016	United States	1	1	Both hands and Fingers		44	Male	without significant past medical history	RT-PCR	[25]
Fontes et al., 2016	Brazil	1	1		12	51	Female		Confirmed in a panel of viruses at a reference lab	[26]

Gaskell et al., 2017	United Kingdom	1	1	10	45	Male	previously healthy	but method not given rRT-PCR, IgM and IgG PCR	[27]
Goorhuis et al., 2016	Netherlands	5	5		60, 40, 54, 47, 53	3 Female, 2 Males			[28]
Harrower et al., 2016	New Zealand	2	2		51, 53	Male, Female		RT-PCR, IgM and IgG	[29]
Ho et al., 2018	Colombia	1	1		23	Female	no significant past medical history	IgM and IgG antibodies, and RT-PCR	[30]
Karam et al., 2017	Venezuela	1	1	6	22	Female	Hashimoto's thyroiditis	Ig M, PRNT	[31]
Khatib et al., 2019	Canada	2	1	3	40	Female	previously healthy	Ig M, RT-PCR	[32]
Khawar et al., 2017	United States	7	5	3,1,4	56, 28, 33, 17, 56, 48	2 Males And 2 Females		RT-PCR	[33]
Kodati et al., 2017	United States	1	1		26	Male	previously healthy	RT-PCR	[34]
Kulkarni et al., 2017	United States	1	1		42	Female	previously healthy	Serology and PRNT	[35]
Kutsuna et al., 2014	Japan	2	1	5	Mid 20s	Male	previously healthy	RT-PCR	[36]
Langerak et al., 2016	Suriname	3	1	7	40s	Male		IgG and Neutralisation	[37]
Mansuy et al., 2019	South America	1	1	few days	32	Male	immunocompetent white man	rRT-PCR	[38]

Maria et al., 2016	France	3	1		7		20s	Male		IgM, IgG and Neutralisation	[39]
Martinez et al., 2018	Brazil	1	1		5		42	Female	previously healthy	PCR	[40]
Meaney-Delman et al., 2016a	United States	4	2				20s & 30s	2 Females		RT-PCR, Ig G & Ig M, PRNT	[41]
Meaney-Delman et al., 2016b	USA	4	3					3 Female		RT-PCR and immunohistochemical staining	[42]
Medina et al., 2016	Honduras	1	1				62	Male		PRNT	[43]
Merle et al., 2017	Martinique	2	1				50s	Female		RT-PCR	[44]
Molko et al., 2017	New Caledonia	2	1		7		45	Male	previously healthy	RT-PCR	[45]
Moulin et al., 2016	Switzerland	1	1	Wrists and interphalangeal joints			29	Female		RT-PCR	[46]
Neri et al., 2018	Brazil	1	1				38	Female		IgM, RT-PCR	[47]
Nicastri et al., 2016	Italy	3	1			6	74	Male		IgM, IgG, Neutralisation	[48]
Oliveira et al., 2018	Brazil	4	3	Case 1: Arthralgia on ankles and edema of fingers, Case 2: diffuse arthralgia Small joint	Case 1:3, Case 2:5	Case1: 3 days, Case3: 5 weeks	32, 33, 68	2 Females, 1 Male		qRT-PCR	[49]
Mondolfi et al., 2018	Venezuela	1	1		5		68	Female	past medical history was unremarkable	RT-PCR, IgM	[50]

Paniz-Mondolfi et al., 2018	Venezuela	1	1	Distal small joint	3	15	Female	no significant past medical history	IgM & RT-PCR	[51]	
Parke et al., 2016	United States	1	1	Knees and shoulders	10	64	Male	insignificant medical history	PRNT	[52]	
Passos et al., 2017	Brazil	21	3			18, 25, 26		Three patients with no underlying conditions	RT-PCR	[53]	
Penot et al., 2017	France	5	4		17,4	>10, >10	28, 36, 30, 39	4 Females	case 3: no relevant medical history, case 4: a substituted hypothyroidism and a mild, non-treated rheumatoid polyarthrititis	PCR	[54]
Perkasa et al., 2016	Indonesia	1	1	Elbow and knee	4	27	Male		RT-PCR and sequencing	[55]	
Piorkowski et al., 2016	Martinique	1	1			54	Female		RT-PCR	[56]	
Pohl et al., 2018	Germany	2	2	Knee	Both cases 7	57, 53	Male, Female		Seroconversion and exclusion of dengue and chikungunya	[57]	
Pokrovskiy et al., 2016	Russia	1	1			36	Female		RT-PCR	[58]	

Ramos-Rossy et al., 2018	Puerto Rico	1	1	Diffuse arthralgia	7	80	Male	hypertension, diabetes mellitus, hyperlipidemia, peripheral vascular disease, chronic kidney disease stage III, and one coronary artery bypass graft	RT-PCR	[59]
Rozé et al., 2016	Martinique	2	2		45	Young adult & late 70s	Not Given	previously healthy	RT-PCR	[60]
Sanín-Blair et al., 2017	Colombia	3	2			30,16	2 Females		PCR	[61]
Sezen et al., 2018	Turkey	1	1			29	Male	otherwise healthy	RT-PCR	[62]
Soares et al., 2018	Brazil	1	1			47	Female	unremarkable medical history	IgM, IgG, RT-PCR	[63]
Summers et al., 2015	United States	1	1		9	48	Male	previously healthy	ZIKV IgG & IgM and exclusion of Dengue and WNV	[64]
Tappe et al., 2015	Germany	1	1	Wrists, palms and fingers	5	45	Female		IgG, IgM and viral	[65]

										neutralization	
van der Eijk et al., 2016	Netherlands	1	1	Both wrists and the left knee	8		31-year-old	Female	medical history was uneventful	rRT-PCR	[66]
Valiant et al., 2018	United States	2	2		8		30, 28	Female, Male		RT-PCR, Serology	[67]
Vilibic-Cavlek et al., 2017	Croatia	1	1		7		Late 20s	Female	previously healthy	IgM/IgG, PRNT	[68]
Vinhaes et al., 2017	Brazil	1	1	Ankles and wrists	15	2	23	Male		IgM, PRNT	[69]
Wæhre et al., 2014	Norway	1	1				31	Female	previously healthy	RT-PCR, genome sequencing	[70]
Waggoner et al., 2017	United States	1	1		4		45	Female	mitral valve prolapses, irregular menses, and a congenital single kidney	RT-PCR, Focus reduction neutralization test (FRNT)	[71]
Walker et al., 2018	United States	21	3				Not given	3 Females		IgM and RT-PCR, PRNT	[72]
Wright et al., 2019	Canada	1	1	Wrists and ankles			34	Female		PCR	[73]
Zammarchi et al., 2015	Italy	1	1				Early30s	Female		RT-PCR	[74]
Zea-Vera et al., 2017	Colombia	1	1		2		30	Female	immune thrombocytopenia (ITP)	RT-PCR	[75]
Zé-Zé et al., 2016	Portugal	4	3	Cases 1 & 2: hands, wrists and ankles,	>11 days		61, 59,62	1male & 2 Females	cases 1 and 2- no past medical history, case	RT-PCR/ IgG/IgM and exclusion of other viruses	[76]

				Case 3: discrete				3-with a past medical history of systemic lupus erythematosu s, fibromyalgia, cardiomyopat hy and hyperuricemi a		
Zonneveld et al., 2016	Suriname	3	2			61, 59	2 Males	Case 1: hypertension, Case 2: chronic obstructive pulmonary disease medical history included mild depression	RT-PCR, sequencing	[77]
Zucker et al., 2017	United States	1	1		5	Adolesce nt	Not Given		RT-PCR	[78]

Table S2. Population based studies

Authors	Country reported	Study design	Time (study period)	No. of cases with +ve lab diagnosis	No. of cases reporting arthralgia/ arthritis	Lab confirmation by	Reference
Adhikari et al., 2017	USA	Cohort study (prospective)	March 14 and Oct. 1, 2016	5	2	rRT-PCR, IgM, Serology and PRNT testing	[79]
Alva-Urcia et al., 2017	Peru	Cross-sectional	January 2016 to March 2016	7	3	RT-PCR	[80]
Ankrah et al., 2019	Ghana	Surveillance	December 2016 and November 2017	33	24	IgG/IgM, PRNT	[81]
Araúz et al., 2016	Guna Yala region of eastern Panama	Epidemiological study	November 27, 2015–January 22, 2016	50	20	Real-time reverse transcription PCR (rRT-PCR)	[82]
Armstrong et al., 2016	US	Surveillance	1 January 2015 to 26 February 2016	115	76	RT-PCR, IgM, Neutralising Abs	[83]
Barros et al., 2018	Goiânia, Goiás, Brazil	Case-control study	January–May 2016	36	15	RT-PCR	[84]
Bôtto-Menezes et al., 2019	Brazil	Cohort study	July 2017–until mid-2020	10	6	Zika rRT-PCR	[85]
Bozza et al., 2019	Brazil	Cohort study	Outbreak 2016	15	12	rRT-PCR	[86]
Brasil et al., 2016a	Rio de Janeiro	Cohort study	September 2015 through May 2016	130	81	RT-PCR	[87]
Brasil et al., 2016b	Brazil	Prospective syndromic surveillance study	January to July 2015	119	75	RT-PCR	[88]

Brooks et al., 2017	Roatán, Honduras	Cross-sectional survey	September 2015–July 2016	79	71	RT-PCR	[89]
Burger-Calderon et al., 2018	Nicaragua	Screening and surveillance	August 31 to October 21 2016	14	6	rRT-PCR, IgM	[90]
Carvalho et al., 2019	Rio de Janeiro (Brazil)	Cross-sectional	2015 to 2018	45	24	RT-qPCR	[91]
Cerbino-Neto et al., 2017	Rio de Janeiro, Brazil	Retrospective evaluation of electronic medical records and surveillance reports	April 28–June 8, 2015	57	Arthralgia: 33 (arthritis: 13)	rRT-PCR	[92]
Chow et al., 2017	Singapore	Cohort study	August 26–September 5, 2016	149	34	RT-PCR	[93]
Connors et al., 2018	New York City	Cohort study (retrospective)	January 1, 2016 to June 30, 2017	107	20	RT-PCR, Serology and PRNT	[94]
Crespillo-Andújar et al., 2020	Spain	Cohort study (prospective)	January 2016 to January 2017	25	14	RT-PCR or serology+ PRNT, IgM and IgG	[95]
Daudens-Vaysse et al., 2016	Martinique Island and French Polynesia	Surveillance	24 November 2015 to 20 January 2016	500	328	RT-PCR or seroneutralisation	[96]
de Laval et al., 2016	French Guiana	Systematic screening		8	3	rRT-PCR, IgM, or Neutralising Abs	[97]
de Laval et al., 2018	French Guiana	Longitudinal cohort survey	January – October 2016	49	26	RT-PCR	[98]
del Carpio-Orantes et al., 2019	Mexico	Descriptive, retrospective, and longitudinal study	1 August to 30 November 2016	25	25	RT-PCR	[99]
Duffy et al., 2009	Micronesia	Reviewed medical records and conducted prospective surveillance (49 confirmed cases: clinical data available only for 31 people)	April 1 through July 31, 2007	31	20	RT-PCR/IgM & PRNT	[100]
Flamand et al., 2017	French Guiana	Surveillance	1 February to 1 June 2016	573	56	RT-PCR, IgM, Neutralising Abs	[101]

Garcell et al., 2020	Cuba	Cross-sectional descriptive study	June 1st to October 31st, 2017	279	183	RNA in serum or urine-qualitative PCR	[102]
Garza-González et al., 2017	Mexico	Surveillance	September 13 to November 25 2016	99	45	rRT-PCR	[103]
Gregianini et al., 2017	Brazil	Epidemiological study	Between 2014 and 2016	41	17 (arthritis 8%)	RT-PCR	[104]
Griffin et al., 2017	Miami-Dade County, Florida	Surveillance	October 1, 2015, and March 29, 2017	33	7	RT-PCR/ MAC-ELISA for IgM & PRNT	[105]
Guerbois et al., 2016	southern Mexico	Epidemiological study	30 Nov to 18 December 2015	25	21	RT-PCR, PRNT and ELISA	[106]
Halai et al., 2017	Rio de Janeiro	Cohort study (prospective)	September 2015 to May 2016	130	81	PCR	[107]
Haque et al., 2016	Mexico	Surveillance	October 2015 and January 2016	84	67 (arthritis- 17)	rRT-PCR	[108]
Hennessey et al., 2016	US	Surveillance	2010 to 2014	11	7	RT-PCR, IgM, PRNT	[109]
Huits et al., 2017	Belgium	Cohort study (prospective)	February 2016 to May 2017	15	5	RT-PCR or neutralisation	[110]
Kam et al., 2017	Brazil	Cohort study (prospective)	Between February and August 2016	6	2	rRT-PCR, ZIKV NS1-specific ELISA	[111]
Katip et al., 2017	Chiang Mai, Thailand	Epidemiological analysis of retrospectively collected clinical data	June to Nov. 2016	19	7	RT-PCR	[112]
Lozier et al., 2018	Puerto Rico	Surveillance	16 September–27 October 2016	58	38 (arthritis-24)	RT-PCR, IgM	[113]

Millet et al., 2017	Barcelona, Spain	Cross-sectional population-based study, observational	January 1st and December 2016	44	26	IgG, IgM and PCR	[114]
Musso et al., 2017	French Polynesia	Hospital-based study; (Confirmed cases 210, clinical data only in 57)	October 2013 to March 2014	57	27	RT-PCR	[115]
Ng et al., 2018	Singapore	Cohort study (prospective)	26 August to 5 September 2016	40	15	rRT-PCR	[116]
Peña et al., 2019	Dominican Republic	Cross-sectional	January 2016–April 2017	225	108(mentioned as Arthritis/arthralgia)	IgM, serology and RT-PCR	[117]
Phan et al., 2019	southern Viet Nam	Surveillance	2016	214	66	rRT–PCR	[118]
Queiroz et al., 2019	Brazil	Case-control study	May 2015 to November 2016	12	11	RT-qPCR	[119]
Ramacciotti et al., 2019	Brazil	Surveillance & case reports	2016-2017	31	20	rRT-PCR	[120]
Read et al., 2018	Puerto Rico	Surveillance	January to December 2016	351	129	RT-PCR and IgM	[121]
Rodó et al., 2019	Barcelona (Catalonia, Spain)	Cross-sectional survey	January 2016 and September 2017	9	3	RT-PCR or IgM, IgG, Neutralization	[122]
Romer et al., 2019	Mexico	Cohort study (prospective)	July 1, 2016– august 31, 2017	36	15 (arthritis 07)	rRT-PCR	[123]
Sahly HM et al., 2019	United States	Cohort study, observational	Between July 13, 2016, and September 19, 2017	45	37 (arthritis 18)	RT-PCR, Neutralisation Abs	[124]
Sánchez-Carbonel et al., 2018	Piura, Peru	Cross-sectional, descriptive	May to August 2016	39	32	rRT-PCR	[125]

Silva et al., 2019	Salvador, Brazil	Surveillance	September 2014 - July, 2016	13	7 (swollen joints 04)	RT-PCR	[126]
Singh et al., 2019	Brazil	Cohort study (prospective)	July 2016 to October 2017	9	5	RT-PCR, IgM, IgG and/or neutralization serology	[127]
Thomas et al., 2016	Puerto Rico	Surveillance	November 23, 2015–January 28, 2016	30	22	RT-PCR or IgM	[128]
Tozetto-Mendoza et al., 2019	Brazil	Hospital-based study	January and September 2016	94	62 (articular edema 25/78)	RT-PCR, IgM & IgG	[129]
Uncini et al., 2018	Cucuta, Colombia	Cohort study	October 2015 to July 2016	20	15	Serology and plaque reduction neutralization test (PRNT90)	[130]
Vasquez et al., 2018	Paris, France	Epidemiological study	Jan 2009–dec.2016	36	28	RT-PCR	[131]
Vega et al., 2019	Santa Luzia, Minas Gerais, Brazil	Longitudinal study	EW01 to EW52 of 2016	12	1	qRT-PCR	[132]
Vieira et al., 2019	Brazil	Epidemiological study	First half of 2017	7	4	rRT-PCR	[133]
Villamil-Gómez et al., 2016	Colombia	Cohort study	Jan-16	28	11	RT-PCR	[134]
Vroon et al., 2017	Suriname	Cross-sectional		21	9	RT-PCR	[135]
Yoon et al., 2017	Korea	Epidemiological study	March to October 2016	14	4	RT-PCR	[136]
Zanluca et al., 2015	Natal, Brazil	Epidemiological study	Early 2015	8	7 (periarticular swelling 6/8)	RT-PCR and sequencing	[137]

PRNT: Plaque reduction neutralization test; rRT-PCR: Real-time reverse transcription polymerase chain reaction; quantitative Real-time reverse transcription PCR: qRT-PCR

Table S3: Forest plot of comparison of prevalence of arthralgia vs arthritis

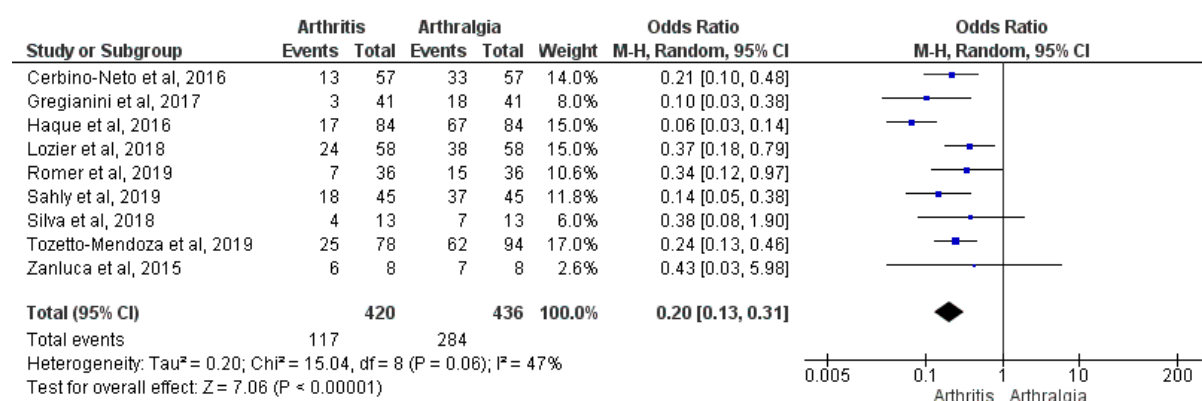


Table S4: Forest plot of prevalence of arthralgia among confirmed ZIKV cases (number of population-based studies: 40)

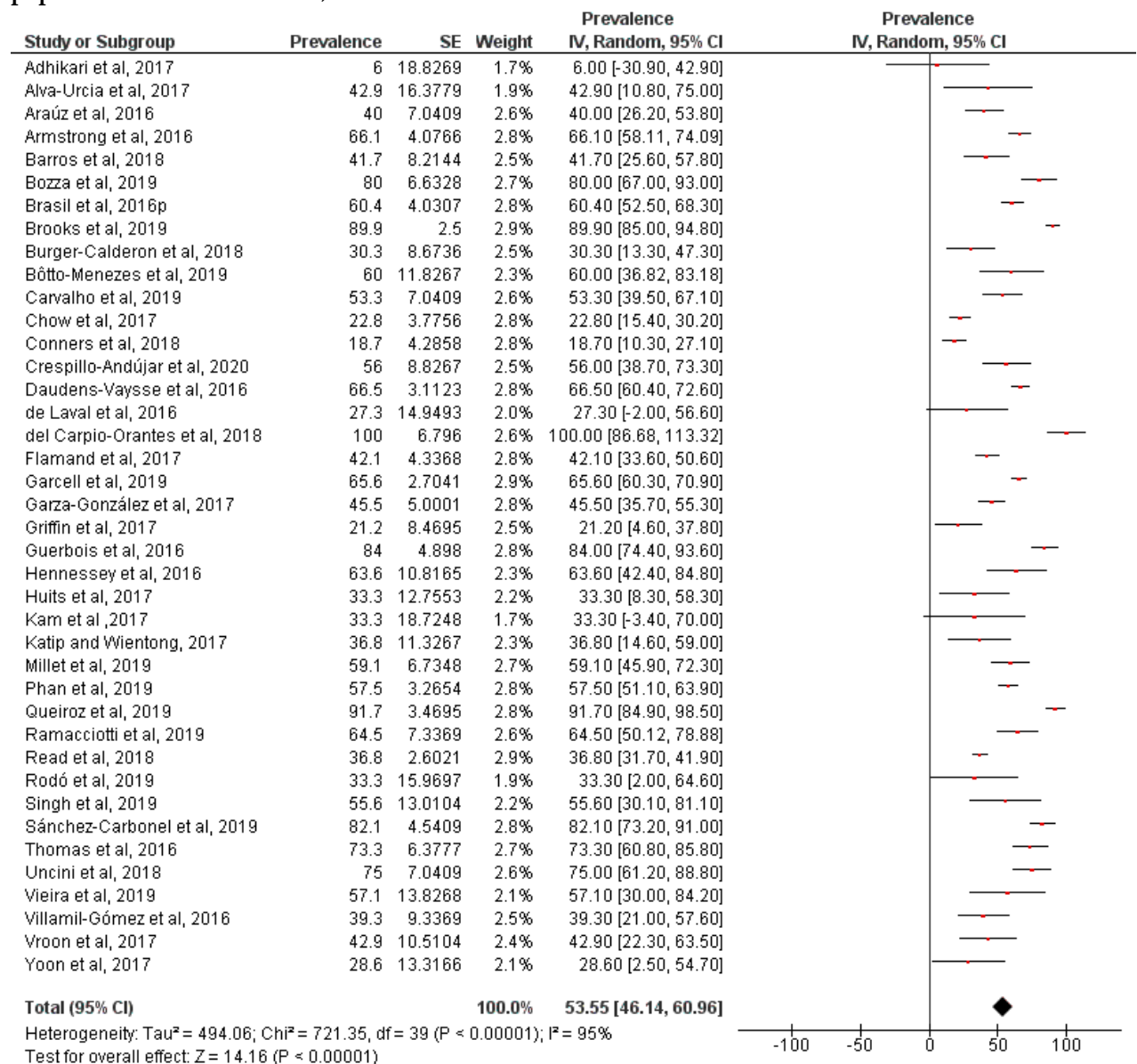


Table S5: Forest plot of prevalence of joint symptoms according to study designs of population-based studies

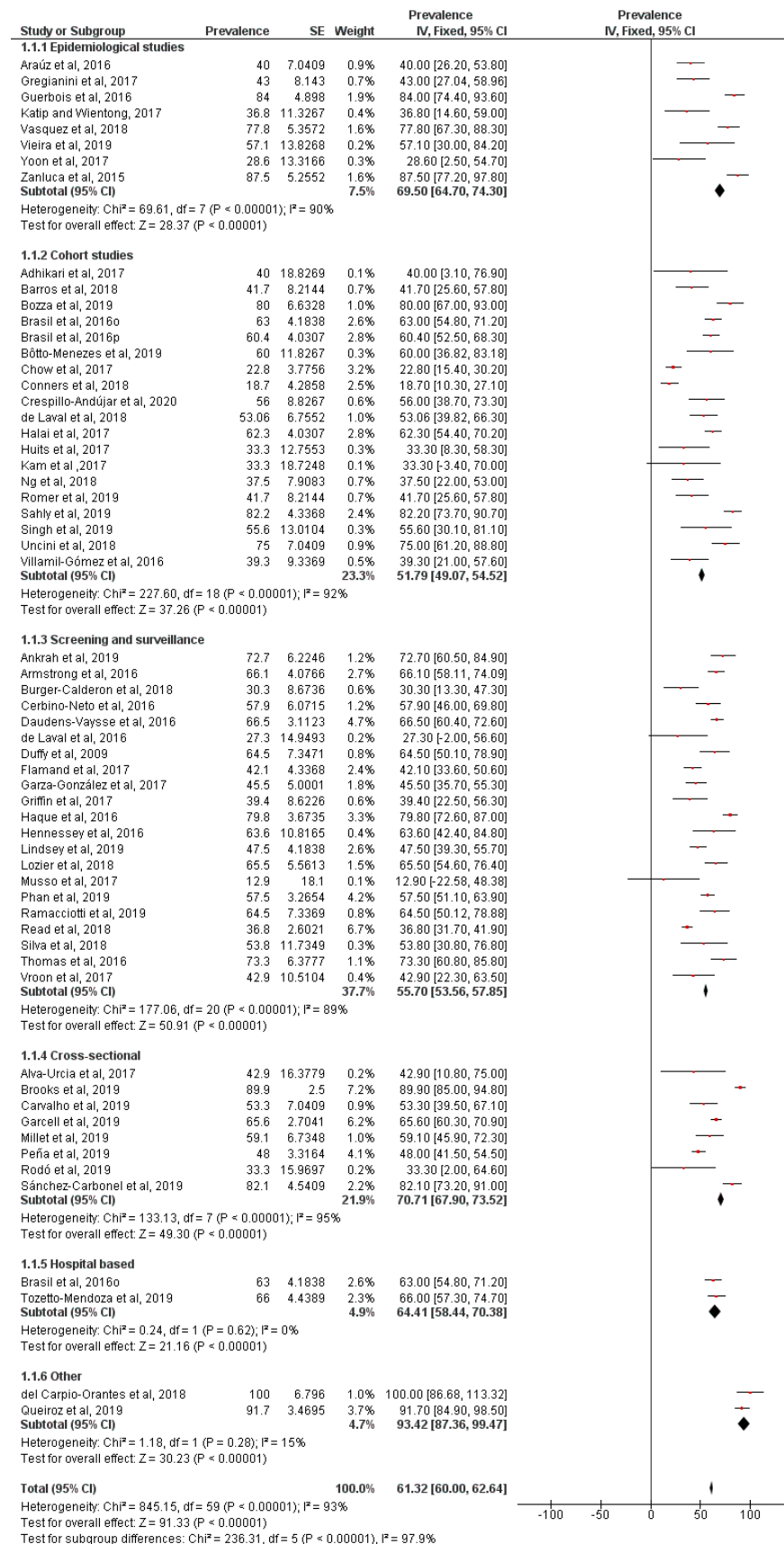


Table S6: Forest plot of prevalence of joint symptoms according to number of confirmed ZIKV cases (sample size)

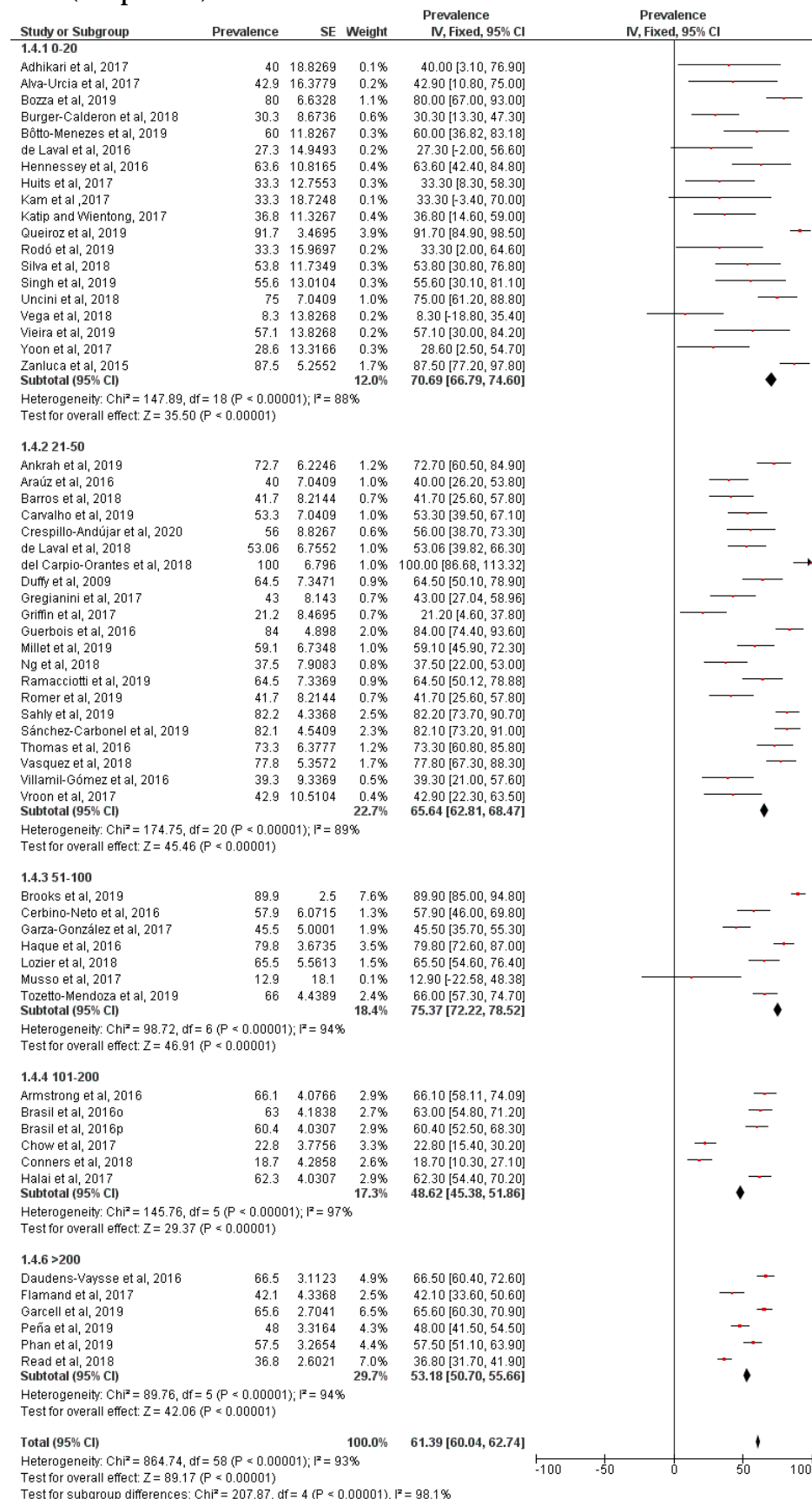


Table S7: Forest plot of prevalence of joint symptoms according to immune status

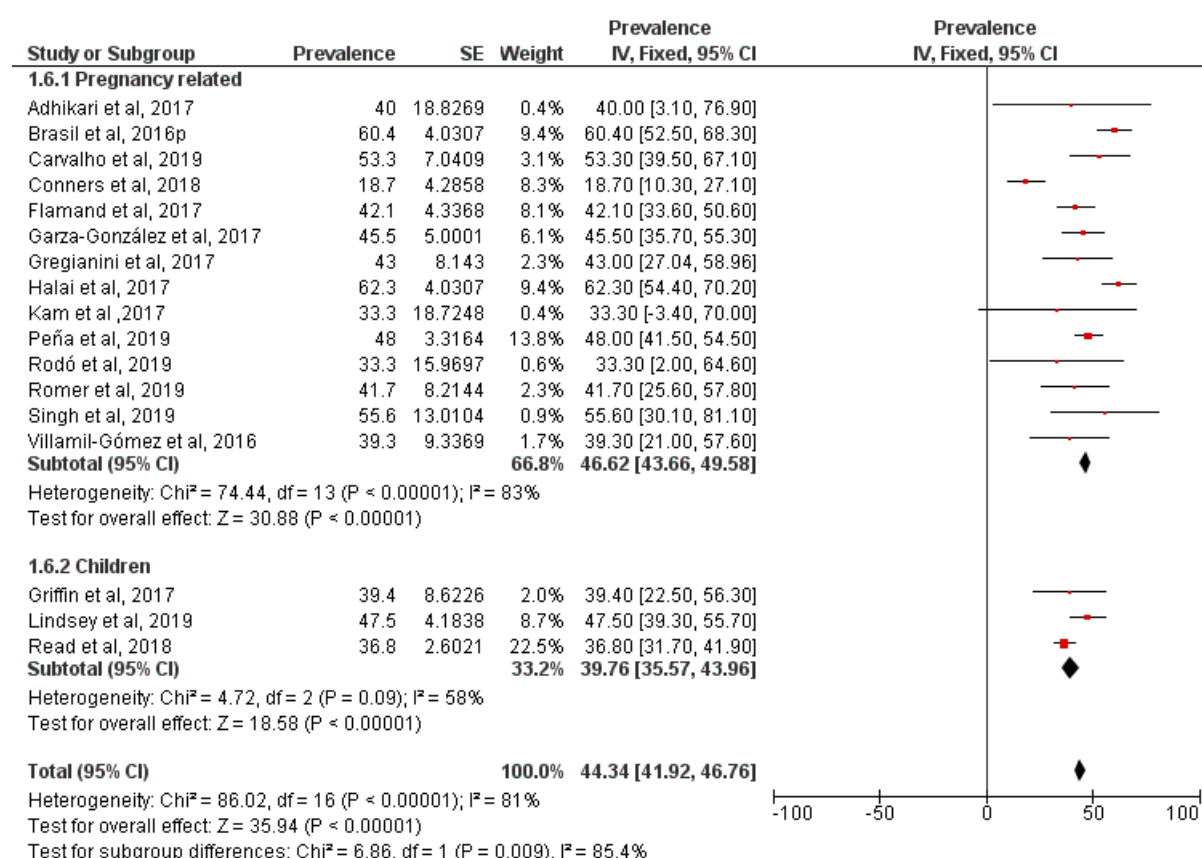
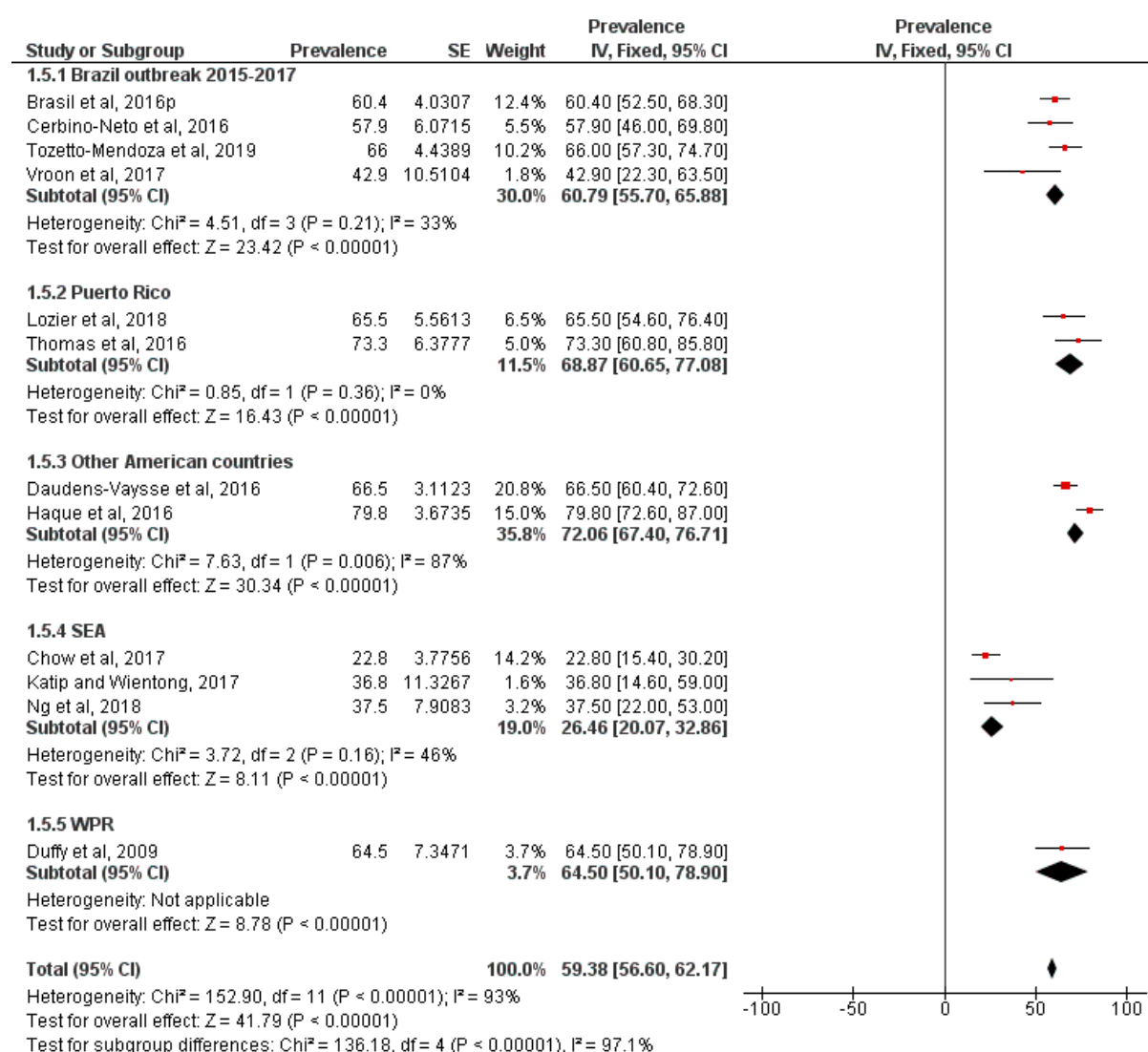


Table S8: Forest plot of prevalence of joint symptoms during outbreaks



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