. import delimited "C:\Users\doqua\Downloads\SeroTracker-Serosurveys-Reporting-Prevalence-Refined.csv" (15 vars, 154 obs) . meta set es cil ciu, studylabel(studylbl) eslabel("Est. Seroprevalence") studysize(n) civarlevel(95) rando > m(ebayes) Meta-analysis setting information Study information No. of studies: 154 Study label: **studylbl** Study size: n Effect size Type: Generic Label: Est. Seroprevalence Variable: es Precision User CI: [cil, ciu]
User CI level: 95%, controlled by civarlevel() Model and method Model: Random-effects Method: Empirical Bayes

. meta summarize, subgroup(studyscope)

Effect-size label: Est. Seroprevalence

Effect size: es
Std. Err.: \_meta\_se
Study label: studylbl

Subgroup meta-analysis summary

Random-effects model Method: Empirical Bayes Group: **studyscope** 

Effect Size: Est. Seroprevalence

Number of studies =

154

	9	Study	Effect Size	[95% Conf.	Interval]	% Weight
Group: Local						
·	Neeraj Sood,	2020	0.047	0.024	0.069	0.65
	Holly Biggs,	2020	0.025	0.009	0.041	0.65
	Amy K Feehan,	2020	0.036	0.028	0.044	0.65
	Kristina Bajema,	2020	0.032	0.006	0.058	0.65
	Tim Bruckner,	2020	0.113	0.087	0.138	0.65
	Elaine Symanski,	2020	0.135	0.090	0.181	0.64
	Katherine Gaskell,	2020	0.643	0.616	0.670	0.65
	Ellen C Hughes,	2020	0.078	0.072	0.085	0.65
	Agne Ulyte,	2020	0.033	0.013	0.053	0.65
	Silvia Stringhini,	2020	0.211	0.191	0.230	0.65
	Niclas Roxhed,	2020	0.125	0.103	0.147	0.65
	Sebastian Videla,	2021	0.128	0.116	0.141	0.65
	Jaya George,	2020	0.273	0.243	0.303	0.65
	Anton Barchuk,	2020	0.074	0.057	0.092	0.65
	Dagny Lorent,	2020	0.009	0.004	0.014	0.65

Carlos Alvarez Antonio,	2020	0.660	0.620	0.701	0.64
Mary F Reyes Vega,	2020	0.208	0.177	0.240	0.65
Muhammed Imran Nisar,	2020	0.002	-0.002	0.006	0.65
Muhammed Imran Nisar,	2020	0.004	-0.002	0.011	0.65
Muhammed Imran Nisar,	2020	0.087	0.047	0.127	0.64
Muhammed Imran Nisar,	2020	0.151	0.089	0.212	0.63
Muhammed Imran Nisar,	2020	0.128	0.081	0.175	0.64
Muhammed Imran Nisar,	2020	0.215	0.153	0.277	0.62
Isaac Ngere,	2020	0.347	0.318	0.376	0.65
Nobutoshi Nawa,	2020	0.012	0.002	0.023	0.65
Gabriele Pagani,	2020	0.226	0.166	0.285	0.63
Roberto Melotti,	2020	0.269	0.252	0.286	0.65
Amitav Banerjee,	2020	0.340	0.313	0.368	0.65
Aurnab Ghose,	2020	0.513	0.400	0.626	0.57
Sriram Selvaraju,		0.184	0.145	0.223	0.64
Anup Malani,		0.171	0.158	0.184	0.65
Rita Isaac,	2020	0.022	0.009	0.035	0.65
Rita Isaac,		0.220	0.163	0.277	0.63
Sudarshan Ramaswamy,		0.294	0.284	0.304	0.65
Taha Ayub,	2020	0.406	0.386	0.425	0.65
Claudia Santos Hovener,		0.120	0.102	0.138	0.65
Stefanie Theuring,		0.014	0.004	0.025	0.65
Katja Radon,		0.036	0.029	0.043	0.65
Michael Pritsch,		0.018	0.013	0.024	0.65
Anne Gegout petit,		0.025	0.018	0.033	0.65
Adeline Beaumont,		0.354	0.300	0.408	0.63
Berhanu Alemu,		0.088	0.058	0.118	0.65
Saro Abdella,		0.035	0.016	0.054	0.65
Saro Abdella,		0.006	-0.002	0.014	0.65
Piia Jogi,		0.015	0.007	0.023	0.65
Piia Jogi,		0.063	0.048	0.078	0.65
Antoine N Nkuba,		0.166	0.138	0.193	0.65
Salim Mattar,		0.553	0.526	0.579	0.65
Yunbao Pan,		0.024	0.023	0.025	0.65
Kenechukwu Nwos,		0.292	0.243	0.341	0.64
Beatriz Tess,		0.047	0.029	0.065	0.65
Marcelo Vieira,		0.006	-0.000	0.011	0.65
Marcelo Vieira,		0.009	0.002	0.016	0.65
Marcelo Vieira,	2020	0.014	0.006	0.023	0.65
Marcelo Vieira,		0.020	0.010	0.030	0.65
Marcelo Vieira,		0.038	0.025	0.051	0.65
Marcelo Vieira,	2020	0.058	0.043	0.073	0.65
Marcelo Vieira,	2020	0.083	0.065	0.102	0.65
Rafael Picon,	2020	0.040	0.030	0.051	0.65
Rafael Picon,		0.026	0.016	0.036	0.65
Mozart Julio Tabosa Sales,	2020	0.043	0.030	0.057	0.65
Gemilson Soares Pontes,	2020	0.646	0.590	0.703	0.63
Heather F Gidding,	2020	0.002	-0.000	0.003	0.65
	theta	0.146	0.104	0.188	
Group: National	200-				<b>-</b>
Lloyd B Mulenga,		0.021	0.011	0.031	0.65
Shuchi Anand,		0.093	0.088	0.099	0.65
Helen Ward,		0.048	0.047	0.050	0.65
Helen Ward,		0.044	0.043	0.045	0.65
Shamez Ladhani,		0.136	0.123	0.150	0.65
Shamez Ladhani,		0.121	0.104	0.138	0.65
Helen Ward,		0.049	0.049	0.050	0.65
Mario Poljak,		0.009	0.004	0.014	0.65
Mohamed Bailor Barrie,		0.026	0.018	0.034	0.65
Eun Hee Nah,		0.004	0.002	0.006	0.65
Luisa Canto e Castro,		0.173	0.158	0.188	0.65
Mohsina Haq,	2020	0.424	0.416	0.432	0.65

Erik Anda,	2021	0.009	0.007	0.010	0.65
Eric Vos,		0.028	0.020	0.036	0.65
Eric Vos,		0.029	0.004	0.053	0.65
Eric Vos,		0.045	0.038	0.052	0.65
Chantal Snoeck,		0.021	0.014	0.028	0.65
Kastytis Smigelskas,		0.014	0.009	0.019	0.65
Takashi Yoshiyama,		0.001	0.000	0.002	0.65
Hossein Poustchi,	2020	0.171	0.147	0.196	0.65
Hossein Poustchi,	2020	0.200	0.184	0.216	0.65
Kazem Khalagi,	2020	0.142	0.133	0.152	0.65
Manoj Murhekar,	2020	0.007	0.003	0.011	0.65
Manoj V Murhekar,	2020	0.066	0.058	0.074	0.65
Prajjval Singh,	2020	0.306	0.287	0.324	0.65
Manoj Murhekar,	2021	0.241	0.230	0.252	0.65
Bela Merkely,		0.007	0.005	0.009	0.65
Zacharoula Bogogiannidou,		0.002	0.001	0.003	0.65
Stephane Le Vu,		0.004	0.000	0.008	0.65
Stephane Le Vu,		0.041	0.033	0.050	0.65
Stephane Le Vu,		0.049	0.039	0.058	0.65
Hiie Soeorg,		0.201	0.185	0.217	0.65
Laura Espenhain,		0.015	0.009	0.021	0.65
Laura Espenhain,		0.020	0.017	0.023	0.65
Laura Espenhain,		0.024	0.019	0.029	0.65
Laura Espenhain,		0.043	0.035	0.052	0.65
Sereina Herzog,		0.018	0.010	0.026	0.65
Sereina Herzog,		0.052	0.042	0.063	0.65
Sereina Herzog, Sereina Herzog,		0.062 0.047	0.051 0.036	0.073 0.058	0.65 0.65
Sereina Herzog,		0.037	0.026	0.047	0.65
Sereina Herzog,		0.033	0.023	0.047	0.65
Sereina Herzog,		0.042	0.031	0.052	0.65
3ci cilia nei 206;		0.0.2	0.05=	0.05=	0.05
	theta	0.073	0.046	0.099	
	theta	0.073	0.046	0.099	
Group: Regional					
Group: Regional Shiwani Mahajan,	2020	0.040	0.020	0.060	0.65 0.65
Group: Regional Shiwani Mahajan, Matthew Samore,	2020 2020	0.040 0.008	0.020 0.001	0.060 0.016	0.65
Group: Regional  Shiwani Mahajan,  Matthew Samore,  Kristen Maleck,	2020 2020 2020	0.040 0.008 0.016	0.020 0.001 0.007	0.060 0.016 0.026	0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck,	2020 2020 2020 2020	0.040 0.008 0.016 0.068	0.020 0.001 0.007 0.043	0.060 0.016 0.026 0.094	0.65 0.65 0.65
Group: Regional  Shiwani Mahajan,  Matthew Samore,  Kristen Maleck,	2020 2020 2020 2020 2020 2020	0.040 0.008 0.016 0.068 0.026	0.020 0.001 0.007	0.060 0.016 0.026 0.094 0.032	0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos,	2020 2020 2020 2020 2020 2020 2020	0.040 0.008 0.016 0.068	0.020 0.001 0.007 0.043 0.020	0.060 0.016 0.026 0.094	0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029	0.020 0.001 0.007 0.043 0.020 0.003	0.060 0.016 0.026 0.094 0.032 0.055	0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104	0.020 0.001 0.007 0.043 0.020 0.003 0.095	0.060 0.016 0.026 0.094 0.032 0.055 0.114	0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089	0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042	0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295	0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.64
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512	0.65 0.65 0.65 0.65 0.65 0.65 0.64 0.64 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362	0.65 0.65 0.65 0.65 0.65 0.65 0.64 0.64 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314	0.65 0.65 0.65 0.65 0.65 0.65 0.64 0.64 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314	0.65 0.65 0.65 0.65 0.65 0.65 0.64 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma, Nandini Sharma,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240 0.234 0.276	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247 0.291	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma, Nandini Sharma, Nandini Sharma, Nandini Sharma, Nandini Sharma,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247 0.247	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240 0.234 0.276 0.434	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247 0.291 0.501	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma, Nandini Sharma, Nandini Sharma, Nandini Sharma, Manoj Mohanan, Sitanshu Sekhar Kar,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247 0.247	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240 0.234 0.276 0.434 0.034	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247 0.291 0.501	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma, Sitanshu Sekhar Kar,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247 0.247 0.241 0.284 0.467 0.049	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240 0.234 0.276 0.434 0.034 0.034	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247 0.291 0.501 0.064 0.233	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma, Nandini Sharma, Nandini Sharma, Nandini Sharma, Nandini Sharma, Nandini Sharma, Sitanshu Sekhar Kar, Sitanshu Sekhar Kar,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247 0.247 0.241 0.284 0.467 0.049 0.207	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240 0.234 0.276 0.434 0.034 0.034	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247 0.291 0.501 0.064 0.233 0.376	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65
Group: Regional  Shiwani Mahajan, Matthew Samore, Kristen Maleck, Kristen Maleck, Kristen Maleck, Constantin Yiannoutsos, Philip A Chan, Ahmed R Alsuwaidi, Aude Richard, Paula Iruzubieta, Jackie Kleynhans, Jackie Kleynhans, Anna Popova, A Yu Popova, Anna Popova, Charles Huamani, Cristian Diaz Velez, Edgar Rodriguez-Vidales, Maryam Shakiba, Seyed Abbas Mousavi, Parthasarathi Satpati, Nandini Sharma, Sitanshu Sekhar Kar,	2020 2020 2020 2020 2020 2020 2020 202	0.040 0.008 0.016 0.068 0.026 0.029 0.104 0.078 0.031 0.260 0.410 0.058 0.502 0.312 0.331 0.295 0.271 0.222 0.173 0.041 0.247 0.247 0.241 0.284 0.467 0.049	0.020 0.001 0.007 0.043 0.020 0.003 0.095 0.068 0.020 0.225 0.370 0.053 0.492 0.304 0.300 0.275 0.258 0.162 0.158 0.022 0.240 0.234 0.276 0.434 0.034 0.034	0.060 0.016 0.026 0.094 0.032 0.055 0.114 0.089 0.042 0.295 0.450 0.062 0.512 0.320 0.362 0.314 0.284 0.282 0.188 0.061 0.254 0.247 0.291 0.501 0.064 0.233	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65

Anup Malani,	2020	0.316	0.304	0.328	0.65
Tamrat Shaweno,	2020	0.032	0.013	0.051	0.65
Zhenyu He,	2020	0.069	0.064	0.074	0.65
Danuta Skowronski,	2020	0.003	-0.002	0.007	0.65
Danuta Skowronski,	2020	0.005	-0.001	0.012	0.65
Mariangela Silveira,	2020	0.001	-0.000	0.001	0.65
Mariangela Silveira,	2020	0.001	0.000	0.003	0.65
Mariangela Silveira,	2020	0.002	0.001	0.004	0.65
Antonio da Silva, Antonio da Silva,	2020	0.404	0.356	0.453	0.64
Adriano Antunes de Souza Araújo,	2020	0.093	0.085	0.101	0.65
Jose O M Albuquerque,	2020	0.097	0.080	0.115	0.65
Pedro C. Hallal,	2020	0.000	-0.001	0.002	0.65
Pedro C. Hallal,	2020	0.001	-0.001	0.003	0.65
Pedro C. Hallal,	2020	0.002	-0.000	0.004	0.65
Pedro C. Hallal,	2020	0.002	-0.001	0.004	0.65
Pedro C. Hallal,	2020	0.005	0.002	0.008	0.65
Pedro C. Hallal,	2020	0.011	0.007	0.014	0.65
Pedro C. Hallal,	2020	0.014	0.010	0.018	0.65
Pedro C. Hallal,	2020	0.016	0.011	0.020	0.65
	theta	0.140	0.098	0.183	
Overall					
	theta	0.123	0.100	0.147	

## Heterogeneity summary

Group	df	Q	P > Q	tau2	% I2	H2
Local National Regional	62 42 47	14746.55 25591.32 41505.41	0.000 0.000 0.000	0.029 0.008 0.022	99.95 99.98 99.99	1940.81 4031.97 6834.89
Overall	153	83435.27	0.000	0.022	99.98	6268.01

Test of group differences:  $Q_b = chi2(2) = 11.83$  Prob >  $Q_b = 0.003$ 

. meta summarize, subgroup(country)

Std. Err.: \_meta\_se
Study label: studylbl

Subgroup meta-analysis summary

Random-effects model Method: Empirical Bayes

Group: country

Effect Size: Est. Seroprevalence

Number of studies = 154

	•			
Study	Effect Size	[95% Conf.	Interval]	% Weight
Group: Australia Heather F Gidding, 2020	0.002	-0.000	0.003	0.65
theta	0.002	-0.000	0.003	
Group: Belgium  Sereina Herzog, 2020 Sereina Herzog, 2020 Sereina Herzog, 2020	0.018 0.052 0.062	0.010 0.042 0.051	0.026 0.063 0.073	0.65 0.65 0.65

Sereina Herzog, 2020	0.047	0.036	0.058	0.6
Sereina Herzog, 2020	0.037	0.026	0.047	0.6
Sereina Herzog, 2020	0.033	0.023	0.043	0.6
Sereina Herzog, 2020	0.042	0.031	0.052	0.6
+ho+2	0.041	0 021	0.052	
theta	0.041	0.031	0.052	
Group: Brazil				
Beatriz Tess, 2020	0.047	0.029	0.065	0.6
Mariangela Silveira, 2020	0.001	-0.000	0.001	0.6
Mariangela Silveira, 2020	0.001	0.000	0.003	0.6
Mariangela Silveira, 2020	0.002	0.001	0.004	0.6
Marcelo Vieira, 2020	0.006	-0.000	0.011	0.6
Marcelo Vieira, 2020	0.009	0.002	0.016	0.6
Marcelo Vieira, 2020	0.014	0.006	0.023	0.6
Marcelo Vieira, 2020	0.020	0.010	0.030	0.6
Marcelo Vieira, 2020	0.038	0.025	0.051	0.6
Marcelo Vieira, 2020	0.058	0.043	0.073	0.6
Marcelo Vieira, 2020	0.083	0.065	0.102	0.6
Rafael Picon, 2020	0.040	0.030	0.051	0.6
Rafael Picon, 2020	0.026	0.016	0.036	0.6
Mozart Julio Tabosa Sales, 2020	0.043	0.030	0.057	0.6
Antonio da Silva, Antonio da Silva, 2020	0.404	0.356	0.453	0.64
Adriano Antunes de Souza Araújo, 2020	0.093	0.085	0.101	0.6
Gemilson Soares Pontes, 2020	0.646	0.590	0.703	0.63
Jose O M Albuquerque, 2020	0.097	0.080	0.115	0.6
Pedro C. Hallal, 2020	0.000	-0.001	0.002	0.6
Pedro C. Hallal, 2020	0.001	-0.001	0.003	0.6
Pedro C. Hallal, 2020	0.002	-0.000	0.004	0.6
Pedro C. Hallal, 2020	0.002	-0.001	0.004	0.6
Pedro C. Hallal, 2020	0.005	0.002	0.008	0.6
Pedro C. Hallal, 2020	0.011	0.007	0.014	0.6
Pedro C. Hallal, 2020	0.014	0.010	0.018	0.6
Pedro C. Hallal, 2020	0.016	0.011	0.020	0.6
theta	0.063	0.009	0.117	
Group: Cameroon				
Kenechukwu Nwos, 2020	0.292	0.243	0.341	0.64
theta	0.292	0.243	0.341	
Group: Canada				
Danuta Skowronski, 2020	0.003	-0.002	0.007	0.6
Danuta Skowronski, 2020	0.005	-0.001	0.012	0.6
theta	0.004	0.000	0.008	
Group: China				
Yunbao Pan, 2020	0.024	0.023	0.025	0.6
Zhenyu He, 2020	0.069	0.064	0.074	0.6
theta	0.046	0.002	0.091	
Group: Colombia				
Salim Mattar, 2020	0.553	0.526	0.579	0.6
theta	0.553	0.526	0.579	
Group: Democratic Republic of the Conse				
Group: Democratic Republic of the Congo	0.166	0.138	0.193	0.6
Antoine N Nkuba, 2020				
Antoine N Nkuba, 2020 theta	0.166	0.138	0.193	

Groun.	Denmark	I			
di oup.	Laura Espenhain, 2020	0.015	0.009	0.021	0.65
	Laura Espenhain, 2020	0.020	0.017	0.023	0.65
	Laura Espenhain, 2020	0.024	0.019	0.029	0.65
	Laura Espenhain, 2020	0.043	0.035	0.052	0.65
	Edul d'Espellidatil, 2020	0.043	0.033	0.032	0.03
	theta	0.025	0.013	0.037	
Group:	Estonia				
	Piia Jogi, 2020	0.015	0.007	0.023	0.65
	Piia Jogi, 2020	0.063	0.048	0.078	0.65
	Hiie Soeorg, 2021	0.201	0.185	0.217	0.65
	theta	0.093	-0.016	0.202	
Group:	Ethiopia				
	Berhanu Alemu, 2020	0.088	0.058	0.118	0.65
	Tamrat Shaweno, 2020	0.032	0.013	0.051	0.65
	Saro Abdella, 2020	0.035	0.016	0.054	0.65
	Saro Abdella, 2020	0.006	-0.002	0.014	0.65
	theta	0.038	0.005	0.071	
Groun:	France				
di oup.	Anne Gegout petit, 2020	0.025	0.018	0.033	0.65
	Adeline Beaumont, 2020	0.354	0.300	0.408	0.63
	Stephane Le Vu, 2020	0.004	0.000	0.008	0.65
	Stephane Le Vu, 2020	0.041	0.033	0.050	0.65
	,				
	Stephane Le Vu, 2020	0.049	0.039	0.058	0.65
	theta	0.093	-0.034	0.219	
Group:	Germany				
	Claudia Santos Hovener, 2020	0.120	0.102	0.138	0.65
	Stefanie Theuring, 2020	0.014	0.004	0.025	0.65
	Katja Radon, 2021	0.036	0.029	0.043	0.65
	Michael Pritsch, 2020	0.018	0.013	0.024	0.65
	theta	0.047	-0.002	0.095	
Group:	Greece				
·	Zacharoula Bogogiannidou, 2020	0.002	0.001	0.003	0.65
	theta	0.002	0.001	0.003	
Group:	Hungary				
	Bela Merkely, 2020	0.007	0.005	0.009	0.65
	theta	0.007	0.005	0.009	
Group:	India				
	Parthasarathi Satpati, 2020	0.041	0.022	0.061	0.65
	Manoj Murhekar, 2020	0.007	0.003	0.011	0.65
	Amitav Banerjee, 2020	0.340	0.313	0.368	0.65
	Nandini Sharma, 2020	0.247	0.240	0.254	0.65
	Nandini Sharma, 2020	0.241	0.234	0.247	0.65
	Nandini Sharma, 2020	0.284	0.276	0.291	0.65
	Manoj Mohanan, 2020	0.467	0.434	0.501	0.64
	Aurnab Ghose, 2020	0.513	0.400	0.626	0.57
	Sitanshu Sekhar Kar, 2020	0.049	0.034	0.064	0.65
	Sitanshu Sekhar Kar, 2020	0.207	0.181	0.233	0.65
	Sitanshu Sekhar Kar, 2020	0.345	0.314	0.376	0.65
	Sriram Selvaraju, 2020	0.184	0.145	0.223	0.64
	Anup Malani, 2020	0.171	0.158	0.184	0.65
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Manoj V Murhekar, 2020	0.066	0.058	0.074	0.65
Rita Isaac, 2020	0.022	0.009	0.035	0.65
Rita Isaac, 2020	0.220	0.163	0.277	0.63
Prajjval Singh, 2020	0.306	0.287	0.324	0.65
Muhammad Khan, 2020	0.367	0.343	0.392	0.65
Sudarshan Ramaswamy, 2020	0.294	0.284	0.304	0.65
Taha Ayub, 2020	0.406	0.386	0.425	0.65
Manoj Murhekar, 2021	0.241	0.230	0.252	0.65
Jaya Singh Kshatri, 2020	0.208	0.195	0.220	0.65
Anup Malani, 2020	0.316	0.304	0.328	0.65
theta	0.239	0.183	0.295	
Group: Iran (Islamic Republic of)				
Maryam Shakiba, 2020	0.222	0.162	0.282	0.63
Hossein Poustchi, 2020	0.171	0.147	0.196	0.65
Hossein Poustchi, 2020	0.200	0.184	0.216	0.65
Seyed Abbas Mousavi, 2020	0.173	0.158	0.188	0.65
Kazem Khalagi, 2020	0.142	0.133	0.152	0.65
theta	0.176	0.152	0.201	
Group: Italy				
Gabriele Pagani, 2020	0.226	0.166	0.285	0.63
Roberto Melotti, 2020	0.269	0.252	0.286	0.65
theta	0.257	0.220	0.295	
Group: Japan				
Takashi Yoshiyama, 2020	0.001	0.000	0.002	0.65
Nobutoshi Nawa, 2020	0.012	0.002	0.023	0.65
•				
theta	0.005	-0.005	0.016	
Group: Kenya				
Isaac Ngere, 2020	0.347	0.318	0.376	0.65
theta	0.347	0.318	0.376	
Group: Lithuania				
Kastytis Smigelskas, 2020	0.014	0.009	0.019	0.65
theta	0.014	0.009	0.019	
Group: Luxembourg				
Chantal Snoeck, 2020	0.021	0.014	0.028	0.65
theta	0.021	0.014	0.028	
Group: Mexico				
Edgar Rodriguez-Vidales, 2020	0.271	0.258	0.284	0.65
theta	0.271	0.258	0.284	
Group: Netherlands			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Eric Vos, 2020	0.028	0.020	0.036	0.65
Eric Vos, 2020	0.029	0.004	0.053	0.65
Eric Vos, 2020	0.045	0.038	0.052	0.65
theta	0.036	0.024	0.047	
trieta	9.836	0.024	0.04/	
Group: Norway	0.000	0.007	0.040	0.65
Erik Anda, 2021	0.009	0.007	0.010	0.65

	theta	0.009	0.007	0.010	
Group:	Pakistan	0.000	0.000	0.006	0.65
	Muhammed Imran Nisar, 2020	0.002	-0.002	0.006	0.65
	Muhammed Imran Nisar, 2020	0.004	-0.002	0.011	0.65
	Muhammed Imran Nisar, 2020	0.087	0.047	0.127	0.64
	Muhammed Imran Nisar, 2020 Muhammed Imran Nisar, 2020	0.151 0.128	0.089 0.081	0.212 0.175	0.63 0.64
	Muhammed Imran Nisar, 2020	0.215	0.153	0.175	0.62
	Mohsina Haq, 2020	0.424	0.416	0.432	0.65
	Piolistila Hay, 2020	0.424	0.410	0.432	0.05
	theta	0.144	0.036	0.253	
Group:	Peru				
	Charles Huamani, 2020	0.331	0.300	0.362	0.65
	Carlos Alvarez Antonio, 2020	0.660	0.620	0.701	0.64
	Mary F Reyes Vega, 2020	0.208	0.177	0.240	0.65
	Cristian Diaz Velez, 2020	0.295	0.275	0.314	0.65
	theta	0.373	0.179	0.567	
Group:	Poland				
	Dagny Lorent, 2020	0.009	0.004	0.014	0.65
	theta	0.009	0.004	0.014	
Group:	Portugal				
	Luisa Canto e Castro, 2021	0.173	0.158	0.188	0.65
	theta	0.173	0.158	0.188	
Group:	Republic of Korea				
o. oup.	Eun Hee Nah, 2020	0.004	0.002	0.006	0.65
	theta	0.004	0.002	0.006	
Group:	Russian Federation				
	Anna Popova, 2020	0.058	0.053	0.062	0.65
	A Yu Popova, 2020	0.502	0.492	0.512	0.65
	Anna Popova, 2020	0.312	0.304	0.320	0.65
	Anton Barchuk, 2020	0.074	0.057	0.092	0.65
	theta	0.237	0.029	0.444	
Group:	Sierra Leone				
•	Mohamed Bailor Barrie, 2021	0.026	0.018	0.034	0.65
	theta	0.026	0.018	0.034	
Groun:	Slovenia				
о. очр.	Mario Poljak, 2020	0.009	0.004	0.014	0.65
	theta	0.009	0.004	0.014	
		0.003			
Group:	South Africa				
	Jaya George, 2020	0.273	0.243	0.303	0.65
	Jackie Kleynhans, 2021	0.260	0.225	0.295	0.64
	Jackie Kleynhans, 2021	0.410	0.370	0.450	0.64
	theta	0.314	0.220	0.407	
Group:	Spain				
•	Paula Iruzubieta, 2020	0.031	0.020	0.042	0.65

I				
theta	0.079	-0.016	0.175	
Group: Sweden				
Niclas Roxhed, 2020	0.125	0.103	0.147	0.65
theta	0.125	0.103	0.147	
Group: Switzerland				
Agne Ulyte, 2020	0.033	0.013	0.053	0.65
Silvia Stringhini, 2020	0.211	0.191	0.230	0.65
Aude Richard, 2020	0.078	0.068	0.089	0.65
theta	0.107	0.003	0.212	
Group: The United Kingdom				
Helen Ward, 2020	0.048	0.047	0.050	0.65
Helen Ward, 2020	0.044	0.043	0.045	0.65
Shamez Ladhani, 2020	0.136	0.123	0.150	0.65
Shamez Ladhani, 2020	0.121	0.104	0.138	0.65
Katherine Gaskell, 2020	0.643	0.616	0.670	0.65
Ellen C Hughes, 2020	0.078	0.072	0.085	0.65
Helen Ward, 2020	0.049	0.049	0.050	0.65
theta	0.160	-0.000	0.320	
Group: United Arab Emirates				
Ahmed R Alsuwaidi, 2020	0.104	0.095	0.114	0.65
theta	0.104	0.095	0.114	
Group: United States of America				
Neeraj Sood, 2020	0.047	0.024	0.069	0.65
Shiwani Mahajan, 2020	0.040	0.020	0.060	0.65
Holly Biggs, 2020	0.025	0.009	0.041	0.65
Amy K Feehan, 2020	0.036	0.028	0.044	0.65
Shuchi Anand, 2020	0.093	0.088	0.099	0.65
Matthew Samore, 2020	0.008	0.001	0.016	0.65
Kristina Bajema, 2020	0.032	0.006	0.058	0.65
Kristen Maleck, 2020	0.016	0.007	0.026	0.65
Kristen Maleck, 2020	0.068	0.043	0.094	0.65
Constantin Yiannoutsos, 2020	0.026	0.020	0.032	0.65
Tim Bruckner, 2020	0.113	0.087	0.138	0.65
Philip A Chan, 2020	0.029	0.003	0.055	0.65
Elaine Symanski, 2020	0.135	0.090	0.181	0.64
theta	0.049	0.029	0.070	
Group: Zambia				
Lloyd B Mulenga, 2020	0.021	0.011	0.031	0.65
theta	0.021	0.011	0.031	
Overall				
theta	0.123	0.100	0.147	

Heterogeneity summary

6	10		D . 0	42	0/ 10	
Group	df	Q	P > Q	tau2	% I2	H2
Australia	0	0.00	•	0.000		•
Belgium	6	51.64	0.000	0.000	86.89	7.63
Brazil	25	1792.37	0.000	0.020	99.99	10385.11
Cameroon	0	0.00	•	0.000	•	•
Canada	1	0.48	0.489	0.000	3.20	1.03
China	1	285.90	0.000	0.001	99.65	285.90
Colombia	0	-0.00	•	0.000	•	•
Democratic R~o	0	0.00	•	0.000	•	•
Denmark	3	31.13	0.000	0.000	95.53	22.37
Estonia	2	417.02	0.000	0.009	99.56	226.80
Ethiopia	3	35.01	0.000	0.001	93.50	15.37
France	4	268.14	0.000	0.021	99.92	1245.93
Germany	3	124.61	0.000	0.002	99.22	127.83
Greece	0	0.00	•	0.000	•	•
Hungary	0	0.00	•	0.000	•	•
India	22	12643.35	0.000	0.019	99.82	570.79
Iran (Islami∼)	4	45.08	0.000	0.001	89.37	9.41
Italy	1	1.85	0.173	0.000	46.09	1.85
Japan	1	4.38	0.036	0.000	77.18	4.38
Kenya	0	0.00		0.000	•	•
Lithuania	0	0.00		0.000		
Luxembourg	0	0.00		0.000		
Mexico	0	0.00		0.000		
Netherlands	2	10.28	0.006	0.000	72.01	3.57
Norway	0	0.00		0.000		
Pakistan	6	8942.80	0.000	0.021	99.88	818.64
Peru	3	324.93	0.000	0.039	99.42	173.89
Poland	0	-0.00		0.000	•	•
Portugal	0	0.00		0.000		
Republic of ~a	0	0.00		0.000		
Russian Fede~n	3	7644.49	0.000	0.045	99.96	2397.04
Sierra Leone	0	0.00		0.000	•	•
Slovenia	0	0.00		0.000	•	•
South Africa	2	37.00	0.000	0.007	95.36	21.54
Spain	1	130.37	0.000	0.005	99.23	130.37
Sweden	0	0.00		0.000		
Switzerland	2	181.14	0.000	0.008	99.17	120.43
The United K~m	6	2225.78	0.000	0.047	100.00	39493.27
United Arab ~s	0	0.00	•	0.000	•	- /
United State~a	12	515.65	0.000	0.001	97.61	41.77
Zambia	0	0.00	•	0.000	•	•
Overall	153	83435.27	0.000	0.022	99.98	6268.01

Test of group differences:  $Q_b = chi2(40) = 5769.85$  Prob >  $Q_b = 0.000$ 

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. meta summarize if risk\_bias == "Low" & peer\_reviewed == 1 & data\_quality == "verified", subgroup(studyscop) > e)

Effect-size label: Est. Seroprevalence
 Effect size: es
 Std. Err.: \_meta\_se
 Study label: studylbl

Subgroup meta-analysis summary

Number of studies = 23

Random-effects model Method: Empirical Bayes

Group: studyscope

Effect Size: Est. Seroprevalence

Study	Effect Size	[95% Conf.	Interval]	% Weight
Group: Local				
Kristina Bajema, 2020	0.032	0.006	0.058	4.31
Tim Bruckner, 2020	0.113	0.087	0.138	4.31
Ellen C Hughes, 2020	0.078	0.072	0.085	4.38
Silvia Stringhini, 2020	0.211	0.191	0.230	4.34
Mary F Reyes Vega, 2020	0.208	0.177	0.240	4.28
Nobutoshi Nawa, 2020	0.012	0.002	0.023	4.37
Sriram Selvaraju, 2020	0.184	0.145	0.223	4.22
Anup Malani, 2020	0.171	0.158	0.184	4.36
Sudarshan Ramaswamy, 2020	0.294	0.284	0.304	4.37
Claudia Santos Hovener, 2020	0.120	0.102	0.138	4.35
Michael Pritsch, 2020	0.018	0.013	0.024	4.38
theta	0.131	0.077	0.185	
Group: National				
Eric Vos, 2020	0.028	0.020	0.036	4.38
Eric Vos, 2020	0.029	0.004	0.053	4.32
Takashi Yoshiyama, 2020	0.001	0.000	0.002	4.38
Hossein Poustchi, 2020	0.171	0.147	0.196	4.32
Manoj Murhekar, 2020	0.007	0.003	0.011	4.38
Manoj V Murhekar, 2020	0.066	0.058	0.074	4.38
theta	0.050	-0.001	0.100	
Group: Regional				
Philip A Chan, 2020	0.029	0.003	0.055	4.31
Muhammad Khan, 2020	0.367	0.343	0.392	4.32
Zhenyu He, 2020	0.069	0.064	0.074	4.38
Mariangela Silveira, 2020	0.001	-0.000	0.001	4.38
Mariangela Silveira, 2020	0.001	0.000	0.003	4.38
Mariangela Silveira, 2020	0.002	0.001	0.004	4.38
theta	0.078	-0.037	0.193	
0verall				
theta	0.096	0.054	0.138	

## Heterogeneity summary

Group	df	Q	P > Q	tau2	% I2	H2
Local National Regional	10 5 5	2874.99 486.19 1537.80	0.000 0.000 0.000	0.008 0.004 0.021	99.56 99.82 100.00	227.44 565.26 25388.44
Overall	22	7343.27	0.000	0.011	99.98	6014.79

Test of group differences:  $Q_b = chi2(2) = 4.65$  Prob >  $Q_b = 0.098$