Supplementary S1-original data and references

	Types of population	Location of study	Number of subjects	Description of subjects	Laboratory results	Number of asymptomatic subjects	Detection method	Author	Proportion of asymptomatic subjects	95% Credible interval (%)
SARS-CoV	General population	Hong Kong of China	828	Healthy blood donors，Non-pneumonic adult patients，Non-pneumonic paediatric patients，Symptom-free health-care workers		4	ELISA	Woo, P.C[1]		
		Hong Kong of China	938	Healthy adults		17	ELISA	Bo Jian Zheng[2]		
		Hong Kong of China	12000	General population in a community stricken by SARS		47	ELISA	D. T. M. Leung[3]		
		Sum	13766			68			0.49% (68/13766)	[0.39, 0.63]
	Contacts of confirmed cases	Guang Zhou of China	115	Contacts of confirmed cases		1	ELISA	Che, X. Y.[4]		
		Hong Kong of China	1068			2	ELISA	GM Leung[5]		
		France	37			0	ELISA	Le Vu, S[6]		
		Sum	1220			3			0.25% (3/1220)	[0.06, 0.78]
	HCWs	Hong Kong of China	131	HCWs		3	ELISA	Ip, M.[7]		
		Hong Kong of China	101	HCWs		1	ELISA	Lee, H. K.[8]		
		Taiwan of China	193	HCWs		1	ELISA	Wei-Tien Chang[9]		
		Hong Kong of China	647	HCWs		0	ELISA	Chan, P. K. [10]		
		Hong Kong of China	668	HCWs		1	ELISA	Lai, T. S. [11]		
		Taiwan of China	433	HCWs		4	ELISA	Hsueh, P. R.[12]		
		Singapore	80	HCWs		6	ELISA	Wilder-Smith, A.[13]		
		Bei jin of China	1127	HCWs		29	ELISA	Wang, Z. H.[14]		
		Guang Zhou of China	137	HCWs		4	ELISA	CDC; D Yu, MD[15]		
		Sum	3544			49	ELISA		1.38% (49/3544)	[1.04,1.84]

	Types of population	Location of study	Number of subjects	Description of subjects	Laboratory results	Number of asymptomatic subjects	Detection method	Author	Proportion of asymptomatic subjects	
MERS-CoV	Occupational exposure to the host	Qatar	294	Occupational contact with dromedary camels	10	10	ELISA	Reusken, C. B.[16]		
		Kenya	1222	Livestock herders	2	2	ELISA	Liljander, A.[17]		
		Sum	1516			12			0.79% (12/1516)	[0.43, 1.42]
	General population	Western part of Saudi Ar	7461	Healthy adult blood donors		17	ELISA	Degnah A.A.[18]		
		Saudi Arabia	10009	Healthy individuals		15	ELISA	Muller, M. A.[19]		
		Qatar	4719	Healthy blood donors		1	ELISA	Al Kahlout, R. A.[20]		
		Sum	21649			33			0.15%(33/21649)	[0.11, 0.22]
	Contacts of confirmed cases	United Kingdom	33	Contacts of a confirmed case	2	0	rRT-PCR	Health Protection Agency[21]		
		France	162	Contacts of a confirmed case	1	0	rRT-PCR	Mailles, A.[22]		
		KSA	79	Contacts of a confirmed case	11	2	rRT-PCR	Arwady, M. A.[23]		
		United Araby Emirates	124	Contacts of a confirmed case	13	3	ELISA	Al Hosani, F. I.[24]		
		Qatar	135	Contacts of a confirmed case		1	ELISA	Al Kahlout, R. A.[20]		
		Korea	1610	Contacts of a confirmed case		7	ELISA	Yeong-Jun Song[25]		
		Sum	2143			13			0.61% (13/2143)	[0.34, 1.06]
	Confirmed suspected cases	United Arab Emirates	1586	Suspected MERS case patients	65	23	rRT-PCR	Al Hosani, F. I.[26]		
		KSA	57363	Suspected MERS case patients	384	19	rRT-PCR	Saeed, A. A.[27]		
		Sum			449	42			9.35% (42/449)	[6.90, 12.53]
	Laboratory confirmed cases	KSA		Confirmed MERS-CoV infection	255	64	rRT-PCR	Oboho, I. K.[28]		
		KSA		Confirmed MERS-CoV infection	38	2	rRT-PCR,ELISA	Assiri, A.[29]		
		KSA		Patient-contacts in hospital	61	3	rRT-PCR	Alenazi, T. H.[30]		
		KSA		MERS survivors	18	3	rRT-PCR,ELISA	Zhao, J.[31]		
		Jordan		Patient-contacts in hospital	16	3	rRT-PCR,ELISA	Payne, D. C.[32]		
				Confirmed MERS-CoV infection	144	18		WHO[33]		

		Sum			532	93			17.48% (93/532)	[14.40, 21.04]
	Confirmed HCWs	KSA		HCWs	18	6	rRT-PCR,ELISA,IFA	Alshukairi, A. N.[34]		
		KSA		HCWs	7	4	rRT-PCR,ELISA,IFA	Assiri, A.[29]		
		KSA		HCWs	43	25	rRT-PCR	Balkhy, H. H.[35]		
		United Arab Emirates		HCWs	31	12	rRT-PCR	Al Hosani, F. I.[26]		
		KSA		HCWs	43	18	rRT-PCR	Alenazi, T. H.[30]		
		Riyadh		HCWs	15	8	rRT-PCR	Amer, H.[36]		
		Global		HCWs	389	94		Grant, R.[37]		
		Sum			546	167			30.5% (167/546)	[26.78 , 34.67]
	WHO-Laboratory confirmed cases		2274	Laboratory confirmed MERS-CoV infection		298		Grant, R.[37]		
			642	Laboratory confirmed MERS-CoV infection		35		Elkholy, A. A.[38]		
		Sum	2916			333			11.42% (333/2916)	[10.30, 12.64]
	WHO-Confirmed HCWs				338	89		Elkholy, A. A.[38]		
			2223	HCWs	414	164		Grant, R.[37]		
		Sum			752	253			33.64% (253/752)	[30.29, 37.16]

	Types of population	Location of study	Number of subjects	Description of subjects	Laboratory results	Number of asymptomatic subjects	Detection method	Author	Proportion of asymptomatic subjects	
COVID-19	Other countries/areas	Japan	565	Evacuated population from China	9	5	rRT-PCR	Update to 2020-02-01[39]	55.56% (5/565）	
		Korea	701	Evacuated population from China	2	0	rRT-PCR	Update to 2020-02-04[40]	0	
		Germany	114	Evacuated population from China	2	1	rRT-PCR	Update to 2020-02-02[41]	0	
		Singapore	92	Evacuated population from China	4	2	rRT-PCR	Update to 2020-02-10[42]	50.00%(2/4)	
		France	434	Evacuated population from China	0	0	rRT-PCR	Update to 2020-02-08[43]	0	
		Iceland	2283	Random-Sample Population Screening	13	7	rRT-PCR	Update to 2020-04-04[44]		
		Sum	4189		30	15			0.36%(15/4189)	[0.21, 0.60]
	Other countries/areas	Japan	565	Evacuated population from China	9	5	rRT-PCR	Update to 2020-02-01[39]	55.56% (5/9）	
		South Korea	701	Evacuated population from China	2	0	rRT-PCR	Update to 2020-02-04[40]	0	
		Germany	114	Evacuated population from China	2	1	rRT-PCR	Update to 2020-02-02[41]	0	
		Singapore	92	Evacuated population from China	4	2	rRT-PCR	Update to 2020-02-10[42]	50.00%(2/4)	
		France	434	Evacuated population from China	0	0	rRT-PCR	Update to 2020-02-08[43]	0	
		Sum	1916		17	8			47.06%(8/17)	[23.86, 71.47]
	Diamond Princess	Diamond Princess cruise	4061	Confirmed cases	705	392	rRT-PCR	Update to 2020-02-15[45]	55.60%%(392/705)	
		Sum	4061		705	392			55.60%(392/705）	[51.84, 59.30]
	Contacts of confirmed cases	Ningbo of China	2147	Contacts of confirmed cases	110	22	rRT-PCR	Update to 2020-03-06[46]		
		Jinan of China	1455	Contacts of confirmed cases	28	3	rRT-PCR	Update to 2020-03-01[47]		
		Hubei partial areas of Ch	738	Contacts of confirmed cases	70	28	rRT-PCR	Update to 2020-02-23[48]		
		Total	4340		208	53	rRT-PCR		1.22% (61/4304)	[1.09, 1.83]
	Partial areas of China(Screening)	Ningbo of China	2147	Contacts of confirmed cases	110	22	rRT-PCR	Update to 2020-03-06[46]		
		Jinan of China	1455	Contacts of confirmed cases	28	3	rRT-PCR	Update to 2020-03-01[47]		
		Hubei partial areas of Ch	738	Contacts of confirmed cases	70	28	rRT-PCR	Update to 2020-02-23[48]		
		Total	4340		208	53	rRT-PCR		21.11% (61/289)	[16.64, 26.36]
	Confirmed cases	Iceland	22279	Targeted Testing	1321	126		Update to 2020-04-04[44]	9.54(126/1321)	[8.03, 11.28]
	Early stage of China	He Nan of China		Confirmed cases	168	2	rRT-PCR	Update to 2020-01-24[49]	1.19% (2/168）	[0.21,4.68]
		Zhe Jiang of China		Confirmed cases	85	1	rRT-PCR	Update to 2020-01-29[50]	1.18% (1/85)	[0.06, 7.23]
		Shan Xi of China		Confirmed cases	87	1	rRT-PCR	Update to 2020-01-30[51]	1.15% (1/87）	[0.06, 7.13]
		Total			340	4			1.18%(4/340)	[0.38, 3.19]
	Shan Dong of China(Partial screening)	Shan Dong of China		Confirmed cases	246	14	rRT-PCR	Update to 2020-02-02[52]	5.69% (14/246)	[3.27, 9.57]

Confirmed cases	Ning bo of China	2147	Confirmed cases	191	30	rRT-PCR	Update to 2020-02-02[46]	15.71%(30/191)	[11.01, 21.83]
Confirmed cases	Ning bo of China	2147	Contacts of confirmed cases	110	22	rRT-PCR	Update to 2020-02-02[46]	1.02%(22/2147)	[0.66, 0.157]
Confirmed casesContacts with asymptomatic infected cases	Ning bo of China	146	Confirmed cases	6		rRT-PCR	Update to 2020-02-02[46]		
Middle stage of China(cumulative data)	China	72341	Patient records	44627	889	rRT-PCR	Update to 2020-02-12[53]	1.99% (889/44627)	[1.87, 2.13]
Late stage of China(cumulative data)	China	82295		82295	6176		Update to 2020-04-14[54]	7.50%(6176/82295)	[7.32, 7.69]
Imported cases		1500	Imported cases	1500	337	rRT-PCR	Update to 2020-04-14[55]	22.47%(337/1500)	[20.39, 24.68]

Health care workers (HCWs); Enzyme-linked immunosorbent assay (ELISA); Real time Reverse Transcription-Polymerase Chain Reaction (rRT-PCR); Immunofluorescence assay (IFA);Kingdom of Saudi Arabia (KSA); WHO, world health organization

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