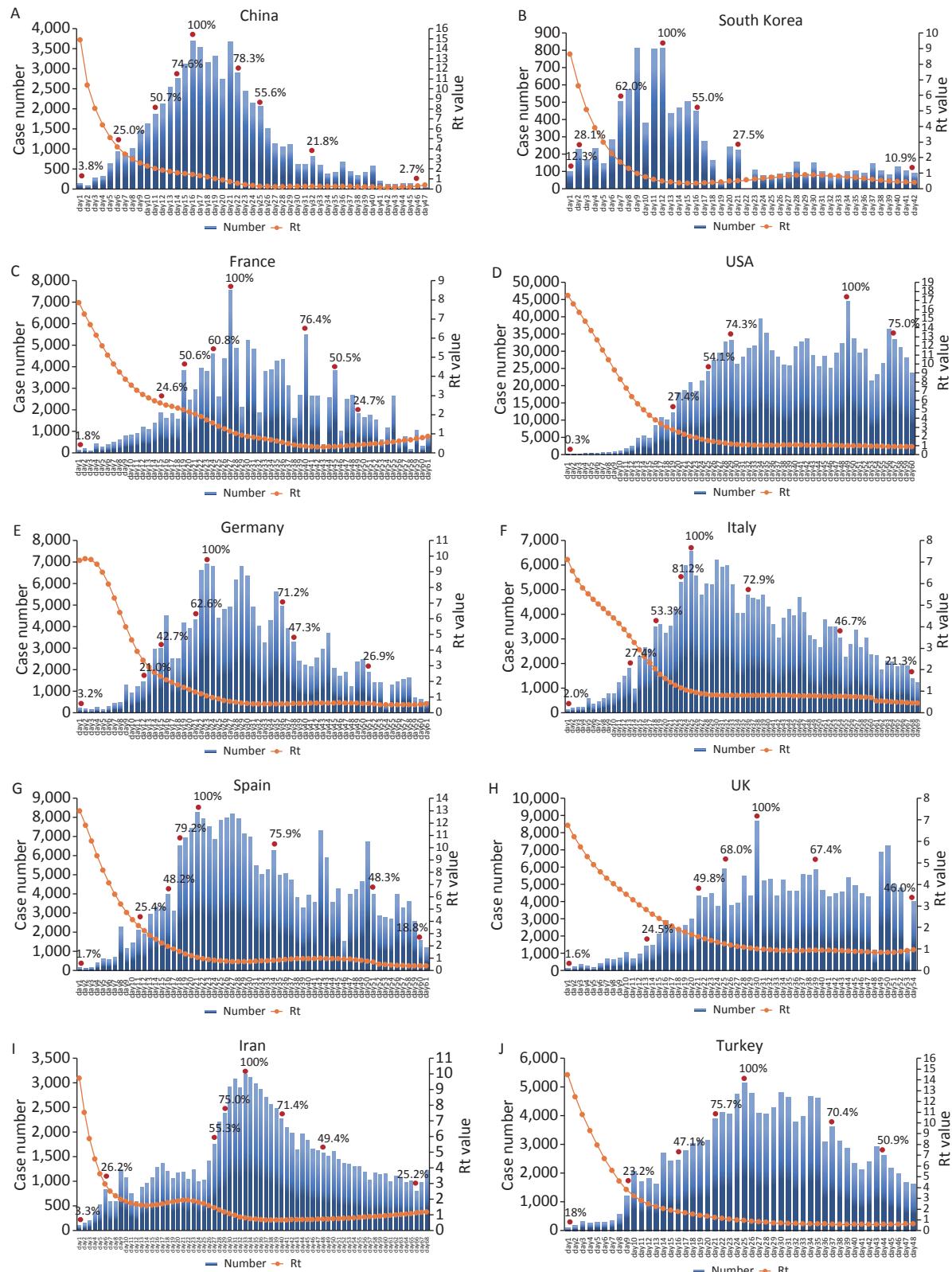
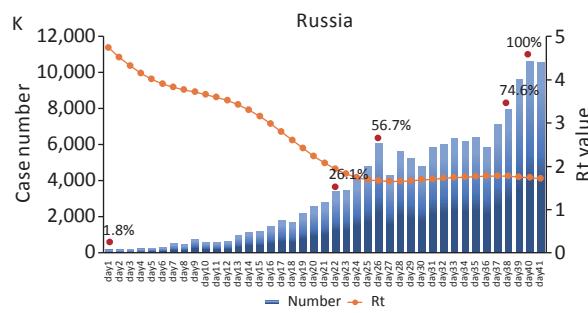


Supplementary Table S1. Duration times and Rt values in the increase and decrease period based on the daily case ratio

Country	> 100 cases			Appr. 25%			Appr. 50%			Appr. 75%			100%			Appr. -75%			Appr. -50%			< 100 cases			By May 4, 2020		
	%	day	Rt	%	day	Rt	%	day	Rt	%	day	Rt	%	day	Rt	%	day	Rt	%	day	Rt	%	day	Rt	%	day	Rt
China	2.8	1	25.0	6	4.18	50.7	11	2.03	74.6	14	1.60	100	16	1.40	78.3	22	0.53	55.6	25	0.25	21.8	32	0.25	2.7	46	0.27	-
South Korea	12.3	1	28.1	2	6.59	62.0	7	1.68	-	-	-	100	12	0.46	-	-	-	55.0	16	0.33	27.5	21	0.49	10.9	42	0.37	-
France	1.8	1	24.6	15	2.59	50.6	19	2.24	NA	NA	1.55	100	27	1.10	76.4	40	0.32	50.5	45	0.32	24.7	49	0.40	NA	NA	NA	0.84
USA	0.3	1	27.4	19	2.69	54.1	25	1.51	74.3	29	1.14	100	49	0.95	75.5	50	0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.82
Germany	3.2	1	21.0	12	3.33	47.7	15	2.30	62.1	21	1.31	100	23	1.06	71.2	36	0.54	47.3	38	0.56	16.9	51	0.56	NA	NA	NA	0.55
Italy	2.0	1	27.4	13	3.25	53.3	18	2.01	81.2	23	1.14	100	25	0.98	72.9	36	0.80	46.7	56	0.75	21.3	68	0.44	NA	NA	NA	0.43
Spain	1.7	1	25.4	11	3.62	48.2	16	1.95	79.2	18	1.50	100	21	0.95	75.9	34	0.81	48.3	51	0.65	18.8	60	0.33	NA	NA	NA	0.33
UK	1.6	1	24.5	13	2.81	49.8	21	1.55	68.0	25	1.23	100	30	0.99	67.4	39	0.92	46.0	54	0.95	NA	NA	NA	NA	NA	NA	0.95
Iran	3.3	1	26.2	7	2.20	55.3	27	1.30	75.0	29	1.04	100	33	0.78	71.4	40	0.66	49.4	48	0.71	25.9	66	1.09	NA	NA	NA	1.16
Turkey	1.8	1	23.2	9	3.79	47.1	16	1.73	75.1	21	1.13	100	25	0.91	70.4	37	0.58	50.9	44	0.57	NA	NA	NA	NA	NA	NA	0.61
Russia	2.7	1	26.1	22	1.92	26.1	26	1.66	74.6	38	1.77	100	41	1.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.71
Average Rt			3.36		1.81	1.34		1.03		0.67										0.57		0.51					





Supplementary Figure S1. The daily new confirmed cases and Rt values of COVID-19 of the 11 enrolled countries. The date when > 100 cases to the day when < 100 cases were reported or by May 4, 2020. The case numbers are indicated on the left and are presented as a blue bar, roughly 25%, 50%, 75%, and 100% are marked using red solid circle on the corresponding blue bars. The Rt values are indicated on the right and presented as an orange solid line. Various countries are marked on the top in each histogram (A–K).