Table S1 Top 25 COVID-19 related terms according to TF-IDF values in January (results for January 2020)

No.	Date (1.01-1.22)	TF-IDF values	Date (1.23-1.31)	TF-IDF values
1	COVID-19 (新型冠状病毒)	0.227662	COVID-19 (新型冠状病毒)	0.16453
2	Infection (感染)	0.124056	Prevention and Control (防控)	0.154535
3	Wuhan (武汉)	0.116360	Confirmed (确诊)	0.089509
4	Medical Case (病例)	0.088312	Wuhan (武汉)	0.084989
5	Confirmed (确诊)	0.085335	Medical Case (病例)	0.079405
6	Mask (口罩)	0.071979	Fight (抗击)	0.079144
7	Virus (病毒)	0.062781	Infection (感染)	0.070607
8	Prevention and Control (防控)	0.046323	Novel (新型)	0.047027
9	Severe Acute Respiratory Syndrome (非典)	0.041571	Mask (口罩)	0.04325
10	Wuhan City (武汉市)	0.041113	Virus (病毒)	0.040887
11	Zhoukou (周口)	0.038673	Millions Of People United As One Man (万众一心)	0.035923
12	Spring Festival (春节)	0.035113	Add (新增)	0.0336
13	Novel (新型)	0.034878	Job (工作)	0.032407
14	Health (健康)	0.032825	Hospital (医院)	0.031646
15	Medical Personnel (医护人员)	0.032268	Effort (加油)	0.029326
16	People to People (人传人)	0.028311	Anhui (安徽)	0.029249
17	Patient (患者)	0.026864	Hubei (湖北)	0.026051
18	Infection (传染)	0.026257	Patient (患者)	0.022648
19	Tongji University (同济)	0.026127	Donate (捐赠)	0.02258
20	Protection (防护)	0.025915	Nationwide (全国)	0.022122
21	Zhong Nanshan (钟南山)	0.025312	Wuhan City (武汉市)	0.020875
22	China (中国)	0.024342	Attention (关注)	0.020147
23	Diffusion (扩散)	0.022546	Newest (最新)	0.019651
24	Hospital (医院)	0.02233	Medical Personnel (医护人员)	0.019241
25	Symptoms (症状)	0.022322	Spring Festival (春节)	0.017817

Table S2 Top 25 COVID-19 related terms according to TF-IDF values in the first half of February (results for February 2020)

No.	Date (2.01-2.07)	TF-IDF values	Date (2.08-2.14)	TF-IDF values
1	Prevention and Control (防控)	0.144747	Prevention and Control (防控)	0.171697
2	COVID-19 (新型冠状病毒)	0.141908	Confirmed (确诊)	0.096701
3	Confirmed (确诊)	0.084652	Medical Case (病例)	0.086418
4	Fight (抗击)	0.081378	COVID-19 (新型冠状病毒)	0.074113
5	Infection (感染)	0.074122	Fight (抗击)	0.06575
6	Medical Case (病例)	0.068871	Add (新增)	0.046217
7	Wuhan (武汉)	0.053665	Wuhan (武汉)	0.045993
8	Patient (患者)	0.04508	Patient (患者)	0.043082
9	Virus (病毒)	0.037745	Fight With Epidemic (战疫)	0.042435
10	Add (新增)	0.036929	Job (工作)	0.038095
11	Mask (口罩)	0.036495	Discharged from hospital (出院)	0.037673
12	Hospital (医院)	0.034539	Infection (感染)	0.031837
13	Fight With Epidemic (战疫)	0.032884	Mask (口罩)	0.030081
14	Discharged from hospital (出院)	0.032796	Hubei (湖北)	0.029002
15	Job (工作)	0.031684	Cure (治愈)	0.028946
16	Millions Of People United As One Man (万众一心)	0.031416	Hospital (医院)	0.027654
17	Effort (加油)	0.02786	Fight With Epidemic (抗疫)	0.02736
18	Novel (新型)	0.025105	Grand Total (累计)	0.026855
19	Cure (治愈)	0.024046	Effort (加油)	0.02566
20	Epidemic Prevention (防疫)	0.023866	Epidemic Prevention (防疫)	0.023126
21	Isolation (隔离)	0.022254	Resume Work (复工)	0.02247
22	Hubei (湖北)	0.021546	Spread (传播)	0.022391
23	Fight With Epidemic (抗疫)	0.021313	Fight With Epidemic (阻击战)	0.021917
24	Forefront Of The Fight (一线)	0.019656	Isolation (隔离)	0.021704
25	Fight With Epidemic (阻击战)	0.018608	Forefront Of The Fight (一线)	0.021507

Table S3 Top 25 COVID-19 related terms according to TF-IDF values in late February (results for February 2020)

No.	Date (2.15-2.21)	TF-IDF values	Date (2.22-2.29)	TF-IDF values
1	Prevention and Control (防控)	0.170825	Prevention and Control (防控)	0.16888
2	Confirmed (确诊)	0.092032	Confirmed (确诊)	0.080157
3	Medical Case (病例)	0.085189	Medical Case (病例)	0.072966
4	Fight (抗击)	0.055806	Resume Work (复工)	0.044475
5	Fight With Epidemic (战疫)	0.048364	Job (工作)	0.041138
6	Add (新增)	0.048034	Fight (抗击)	0.038548
7	COVID-19 (新型冠状病毒)	0.046909	COVID-19 (新型冠状病毒)	0.038376
8	Discharged from hospital (出院)	0.044893	Fight With Epidemic (战疫)	0.037068
9	Patient (患者)	0.042231	Add (新增)	0.034796
10	Wuhan (武汉)	0.042122	Discharged from hospital (出院)	0.034112
11	Job (工作)	0.037497	Korea (韩国)	0.029467
12	Cure (治愈)	0.034069	Wuhan (武汉)	0.027652
13	Hubei (湖北)	0.033157	Patient (患者)	0.02703
14	Fight With Epidemic (抗疫)	0.031589	Infection (感染)	0.026994
15	Resume Work (复工)	0.030784	Fight With Epidemic (抗疫)	0.026575
16	Hospital (医院)	0.02723	Resume Production (复产)	0.025768
17	Zhong Nanshan (钟南山)	0.026403	Mask (口罩)	0.02453
18	Infection (感染)	0.02488	Cure (治愈)	0.02389
19	Forefront Of The Fight (一线)	0.024233	Virus (病毒)	0.022932
20	Epidemic Prevention (防疫)	0.021866	Epidemic Prevention (防疫)	0.021996
21	Japan (日本)	0.021851	Grand Total (累计)	0.021357
22	Mask (口罩)	0.021838	Hospital (医院)	0.020142
23	Fight With Epidemic (阻击战)	0.02031	Hubei (湖北)	0.020078
24	Grand Total (累计)	0.020232	Command (指挥部)	0.019006
25	United Control (联控)	0.019106	Isolation (隔离)	0.018215

Table S4 Top 25 COVID-19 related terms according to TF-IDF values in the first half of March (results for March 2020)

No.	Date (3.01-3.07)	TF-IDF values	Date (3.08-3.14)	TF-IDF values
1	Prevention and Control (防控)	0.125944	Prevention and Control (防控)	0.116636
2	Confirmed (确诊)	0.109453	Confirmed (确诊)	0.102301
3	Medical Case (病例)	0.102279	Medical Case (病例)	0.09113
4	Add (新增)	0.047004	Italy (意大利)	0.042948
5	Discharged from hospital (出院)	0.035352	Trump (特朗普)	0.041763
6	Fight With Epidemic (战疫)	0.034915	Add (新增)	0.034739
7	Fight (抗击)	0.033268	Virus (病毒)	0.030729
8	Patient (患者)	0.033025	Grand Total (累计)	0.029866
9	Fight With Epidemic (抗疫)	0.032915	Fight With Epidemic (抗疫)	0.029501
10	Job (工作)	0.032227	United States of America (美国)	0.028452
11	Grand Total (累计)	0.031868	Job (工作)	0.028
12	Virus (病毒)	0.031561	Fight With Epidemic (战疫)	0.02793
13	Korea (韩国)	0.030897	Fight (抗击)	0.0276
14	Mask (口罩)	0.030059	Mask (口罩)	0.026826
15	COVID-19 (新型冠状病毒)	0.029936	COVID-19 (新型冠状病毒)	0.025471
16	Resume Work (复工)	0.02917	Resume Work (复工)	0.024258
17	Cure (治愈)	0.025303	Worldwide (全球)	0.023349
18	Wuhan (武汉)	0.023489	Wuhan (武汉)	0.023158
19	Infection (感染)	0.02326	China (中国)	0.02307
20	Epidemic Prevention (防疫)	0.021506	Infection (感染)	0.021802
21	Italy (意大利)	0.020509	Response (应对)	0.021261
22	Hospital (医院)	0.020304	Patient (患者)	0.020605
23	Death (死亡)	0.019632	Death (死亡)	0.019861
24	China (中国)	0.01869	Nation (国家)	0.019174
25	Worldwide (全球)	0.017123	Discharged from hospital (出院)	0.018909

Table S5 Top 25 COVID-19 related terms according to TF-IDF values in late March (results for March 2020)

No.	Date (3.15-3.21)	TF-IDF values	Date (3.22-3.31)	TF-IDF values
1	Confirmed (确诊)	0.128414	Confirmed (确诊)	0.110222
2	Medical Case (病例)	0.108163	Medical Case (病例)	0.100517
3	Prevention and Control (防控)	0.06976	Prevention and Control (防控)	0.074201
4	Add (新增)	0.044934	United States of America (美国)	0.053538
5	Virus (病毒)	0.042764	Trump (特朗普)	0.0462
6	United States of America (美国)	0.041223	Virus (病毒)	0.041982
7	Trump (特朗普)	0.038213	Add (新增)	0.036851
8	Infection (感染)	0.035129	Fight With Epidemic (抗疫)	0.033419
9	Grand Total (累计)	0.034175	Italy (意大利)	0.032648
10	Italy (意大利)	0.031636	Worldwide (全球)	0.031042
11	China (中国)	0.030602	The Epidemic Was Introduced From Abroad (输入)	0.030592
12	Abroad (境外)	0.028595	Death (死亡)	0.0281
13	Death (死亡)	0.027844	Grand Total (累计)	0.027659
14	The Epidemic Was Introduced From Abroad (输入)	0.026973	Abroad (境外)	0.026427
15	Fight With Epidemic (抗疫)	0.025608	China (中国)	0.025478
16	Worldwide (全球)	0.025117	Mask (口罩)	0.024164
17	Wu Lei (武磊)	0.02363	Fight With Epidemic (战疫)	0.023903
18	Isolation (隔离)	0.02341	Infection (感染)	0.023394
19	Wuhan (武汉)	0.023204	Job (工作)	0.022797
20	Mask (口罩)	0.022953	Fight (抗击)	0.021599
21	Fight (抗击)	0.020237	Isolation (隔离)	0.020514
22	Patient (患者)	0.019175	Wuhan (武汉)	0.018751
23	Job (工作)	0.018961	Patient (患者)	0.018744
24	Nation (国家)	0.018876	Resume Work (复工)	0.017482
25	Fight With Epidemic (战疫)	0.018627	Response (应对)	0.016561