

- As of 0:00, 24 July 2020, the total number of confirmed cases is 13,979 (including 2,158 imported cases), of which 12,817 cases have been discharged from isolation. There are 28 new local cases, 13 new imported cases, and 1 new death.

[Local transmission cases, as of 0:00, 24 July (cumulative since 3 January 2020)]

	Total	City								
		Seoul	Busan	Daegu	Incheon	Gwangju	Daejeon	Ulsan	Sejong	
New	28	19	2	0	0	2	0	0	0	
Cumulative	11,821	1,217	121	6,881	302	178	147	34	45	
	Total	Province								
		Gyeonggi	Gangwon	Chung-buk	Chung-nam	Jeon-buk	Jeon-nam	Gyeong-buk	Gyeong-nam	Jeju
New	5	0	0	0	0	0	0	0	0	
Cumulative	1,105	51	56	159	18	17	1,369	110	11	

[Imported cases, as of 0:00, 24 July (cumulative since 3 January 2020)]

	Total	Region/Country						Where confirmed		Nationality	
		China	Asia ex-China	Europe	Americas	Africa	Oceania	Point of Entry	Community	Korean	Other
New	13	0	8	0	4	0	1	3	10	6	7
Total	2,158	18 (0.8%)	864 (40.0%)	518 (24.0%)	724 (33.5%)	29 (1.3%)	5 (0.2%)	1,005 (46.6%)	1,153 (53.4%)	1,449 (67.1%)	709 (32.9%)

※ Americas: US 3, Brazil 1
Oceania: New Zealand 1 / Asia ex-China: Uzbekistan 3, Philippines 2, Indonesia 1, Iraq 1, Kuwait 1

[Case management status*, as of 0:00, 24 July (cumulative since 3 January 2020)]

	Discharged from isolation	Under isolation	Severe/critical cases	Deceased
As of 0:00 23 July (Thurs)	12,758	883	18	297
As of 0:00 24 July (Fri)	12,817	864	16	298
Difference	(+)59	(-)19	(-)2	(+)1

* Based on case data reported to the KCDC
※ Figures subject to correction based on findings from epidemiological investigations

[Overall case and test status, as of 0:00, 24 July (cumulative since 3 January 2020)]

Period (since 3 Jan)	Total	Tested positive (PCR)				Testing in progress	Tested negative (PCR)
		Confirmed	Discharged from isolation	Under isolation	Deceased		
As of 0:00 23 July (Thurs)	1,500,854	13,938	12,758	883	297	21,418	1,465,498
As of 0:00 24 July (Fri)	1,510,327	13,979	12,817	864	298	20,559	1,475,789
Difference	(+)9,437	(+)41	(+)59	(-)19	(+1)	(-)859	(+)10,291

* Based on case data reported to the KCDC
※ Figures subject to correction based on findings from epidemiological investigations

- The current state* of major local clusters as of today (as of 12:00, 24 July) are as follows:
- * The specific figures below may differ from the daily reported statistics (which are based on figures as of 0:00 today) or figures disclosed by local municipalities due to factors such as report timing and differences in the time period considered

- Related to the Gangseo Central Day Care Center in Gangseo-gu, Seoul City, 1 additional case (facility user) was confirmed. In total, 21* cases have been confirmed.

* facility users = 14 cases, facility users' family members = 3 cases, acquaintances = 4 cases

※ Text messages requesting testing have been sent out after investigation revealed that 2 confirmed individuals, related to the Gangseo Central Day Care Center, visited the Seongmin Building in Bucheon City, Gyeonggi Province.

- Related to an office (V Building, Hanwha Life Insurance) in Gangnam-gu, Seoul City, 1 additional case (acquaintance) was confirmed. In total, 26* cases have been confirmed.

* V Building = 9 cases, Hanwha Life Insurance = 17 cases

- Related to the Love Church in Songpa-gu, Seoul City, the testing of 136 church member has been completed. Results confirmed 10 additional cases. In total, 18* cases have been confirmed.

* church members (including index case) = 17, acquaintance = 1

- Related to a military garrison in Gyeonggi-do, Pocheon City, 4 additional cases (soldiers) that participated in a religious event (church-related) were confirmed. In total, 21* cases have been confirmed.

* soldiers = 18, instructors = 2, instructor's family members = 1

* Risk factors: improperly worn mask, singing hymns

- Related to a family in Gwangju City, 2 additional case were confirmed. In total, 9* cases have been confirmed. Investigation is underway for possible connections with past clusters, such as the Gwangju door-to-door sales cluster.

* family members = 4, acquaintances = 5

- As of 0:00, 24 July, there were 13 imported cases, of which, 3 were confirmed at the point of entry, and 10 were confirmed in the community while in mandatory self-quarantine after arrival. The 13 cases consisted of 6 Korean nationals and 7 foreign nationals.

- The (presumed) location of infection acquisition of the 13 new imported cases are: Americas (4) (US 3, Brazil 1), Oceania (1) (New Zealand 1), and Asia excluding China (8) (Uzbekistan 3, Philippines 2, Indonesia 1, Iraq 1, Kuwait 1).

- On 8 July, KCDC had conducted on-board quarantine inspection of PERT 1 (Russian vessel, deep-sea fishing boat, 94 sailors on-board) that had entered Busan Harbor on the same day, and found no anomalies.

- However, after a repairman who frequently boarded the ship for repairs since 8 July tested positive on 23 July, 94 sailors were tested, and 32 cases have been confirmed (62 tested negative).

- Investigation is underway to determine the route of transmission for the confirmed repairman and contacts, and known contacts are being tested.

□ In response to the worsening situation in Iraq and to promote the safety and well-being of Korean citizens, 293 Korean construction workers have been evacuated on 2 aerial refueling aircrafts (KC-330) and have safely landed at Incheon International Airport around 10:00 today.

○ A Korean quarantine officer checked the workers' health before departure, and the workers are currently going through entry screening at a separate gate in Incheon International Airport.

○ Those whose diagnostic test confirms positive will be transported to medical facilities, such as the National Medical Center, or a Residential Treatment Center* to get treatment.

* Employment and Labor Training Institute Residential Treatment Center, Small Business Training Institute Residential Treatment Center

- Individuals who test negative will be subject to 2 weeks(24 July ~ 7 August) of quarantine at a separately prepared temporary residential facility* to prevent local community transmission.

* Construction Management Training Center, Social Service Training Center

○ While the workers quarantine at temporary residential facilities, the government will operate a joint support group to take care of their' health to the best of its ability.

- Thanks to strict management, not a single case of local community transmission from temporary residential facilities has occurred up to this point, and the government stated that it will do its utmost best to maintain strict preventive management protocols concerning these facilities.

□ To ensure clinical evidence-based response, KCDC is sharing clinical and epidemiological information of 5,500 confirmed COVID-19 cases. In addition to the 9 institutions that have applied and received the data, KCDC will be sharing the data with 8 additional institutions upon 2nd review.

○ The information will be anonymized and disclosed through a secure system to protect personal information

○ The 8 institutions will be using the data to develop prediction models to develop models for prediction of prognosis of COVID-19 patients, prediction of severity of symptoms using artificial intelligence analysis model, and relationship between presence of underlying medical conditions and prognosis of confirmed COVID-19 cases

○ KCDC encouraged field experts will produce scientific evidence to inform its responses to COVID-19. Any institution interested in COVID-19 related research is encouraged to apply.

□ COVID-19 case fatality rate was 2.55% prior to 5 May (before Itaewon outbreak) but 0.7% for cases confirmed after 6 May. However, the fatality rate for people aged 70 or higher is still very high at 6.7% (22/327). KCDC advises caution for the elderly population.

Age group	20 Jan – 5 May		
	Confirmed cases	Deaths	Fatality rate (%)
Total	10,804	275	2.55
80 or above	488	134	27.46
70-79	710	80	11.27
60-69	1,353	40	2.96
50-59	1,957	16	0.82
40-49	1,436	3	0.21
30-39	1,165	2	0.17
29 or below	3,695	-	-



6 May – 24 July		
Confirmed cases	Deaths	Fatality rate (%)
3,175	23	0.7
104	14	13.46
223	8	3.59
469	1	0.21
516	-	-
412	-	-
547	-	-
904	-	-

* Fatality rate = Deaths / Confirmed cases × 100

□ KCDC advised caution in light of recent flood and water damage caused by heavy rains.

○ To avoid flood-related accidents during heavy rain, avoid areas near streams, rivers, beaches, buildings with glass windows or heavy signs that may fall with wind, and rice paddies.

○ In case of natural disasters, KCDC advised that people who are displaced by natural disasters and staying in temporary residential facilities should continue to follow prevention guidelines including mask wearing, 2m distancing, avoiding activities that produce a large amount of respiratory droplets, and staggered seating arrangements for meal times to prevent COVID-19.

□ Japanese encephalitis alert was issued nationwide on 23 July. KCDC advised vaccination and caution.

* From mosquito monitoring, during 20-21 July, *Culex tritaeniorhynchus* mosquitos (main vector of Japanese encephalitis) were found in excess of the quantity required to trigger alert

○ Due to the risk of exposure to the Japanese encephalitis virus, KCDC requests the public to avoid mosquitos at home and outdoors and follow infection prevention guidelines.

- Some people infected with Japanese encephalitis experience no symptoms or mild symptoms. Other symptoms include fever, headaches, and among them 30% can reach to death.

- In the Republic of Korea, roughly 20 cases of JE are reported annually for the last 10 years. 90% of reported cases are people aged 40 or higher.

- Children aged between 12 months and 12 years are under the National Immunization Program and to be vaccinated according to the standard vaccination schedule. They can receive vaccination for free at any of the public health centers nationwide as well as designated medical institutions.

- KCDC recommended vaccination for adults who have not received a JE vaccine before and live (or will be visiting) in high-risk areas(near rice paddies or pig farms), as well as foreigners hailing from countries without JE and living in Korea long-term.

□ KCDC advised caution as water damage from the rainy season may also cause an increase of various waterborne and mosquito-borne infectious diseases.

- To prevent the major infectious diseases that occur in the rainy season, KCDC stressed that:
 - Food and drink should be thoroughly heated before consumption
 - Cooked food should not be kept for long
 - Individual hygiene such as handwashing is very important

- In areas with flood and water damage, leptospirosis or contact dermatitis may occur due to wounds.
 - * Leptospirosis may be transmitted through wounded skin exposure to water, soil, or food contaminated animal urine. Major symptoms include headache, jaundice, redness of eyes, muscle pain

- In light of the upcoming weekend, KCDC advised people to refrain from social gatherings and to follow infection prevention guidelines.
 - Cancel or use non-face-to-face methods for religious events and small group gatherings
 - If having on-site events, minimize on-site attendees, maintain 2m distancing, require mask wearing at all times, replace singing with instrumental music, and avoid group meals or small group meetings.
 - In addition, since COVID-19 transmissions can occur in any closed, crowded, and close-contact spaces, KCDC requests that people avoid publicly used facilities such as nightlife venues, singing rooms, and PC cafes.

[Regional distribution and epidemiological links of the confirmed cases]

Region	Confirmed cases									Other major clusters
	Total	Imported cases	Clusters					Other*	New cases	
			Sub-total	Shin-cheonji	Other local clusters	Contacts of confirmed cases	Linked to imported cases			
Seoul	1,547	330	1,059	8	911	71	69	158	21	Nightclubs (139), Richway (119), Guro-gu call center (99), Yangcheon-gu sport facility (44), Seongsim Day Care Center (43), Manmin Central Church (41), SMR newly planted churches group (37), Wangsung church (30), Dong-an Church-PC Cafe (28), Coupang (24), Gangnam-gu office (22), Songpa Love Church (17), Gangseo-gu nursing facility (13) , Gwanak-gu office (11), Gangnam-gu financial institution (8), Pocheon military garrison (3), Gangnam office (Yoohwan DnC) (2), etc.
Busan	161	40	89	12	58	18	1	32	2	Onchun Church (39), Suyeong-gu kindergarten (5), Nightclubs (4), etc.
Daegu	6,939	58	6,132	4,512	699	917	4	749	2	Second Mi-Ju Hospital (196), Hansarang Convalescent Hospital (124), Daesil Convalescent Hospital (101), Fatima Hospital (39), Daegu Acting Academy (10), Nightclubs (2), etc.
Incheon	380	78	289	2	268	11	8	13	0	Coupang (61), SMR newly planted churches group (57), Nightclubs (54), Richway (24), Guro-gu call center (19), Gyeong-gu real estate agency family (12), SMR door-to-door sales gathering (8), Gangseo-gu nursing facility (5) etc.
Gwangju	202	24	173	9	154	4	6	5	2	Gwangju door-to-door sales (138), Gwanak-gu office (11), Gwangju family (8) , etc.
Daejeon	166	19	124	2	100	22	0	23	0	Door-to-door sales in Daejeon (56), The Jo Eun Clinic (18), etc.
Ulsan	57	23	27	16	4	3	4	7	0	
Sejong	50	5	44	1	40	3	0	1	0	Ministry of Oceans and Fisheries (31), gym facilities (8)

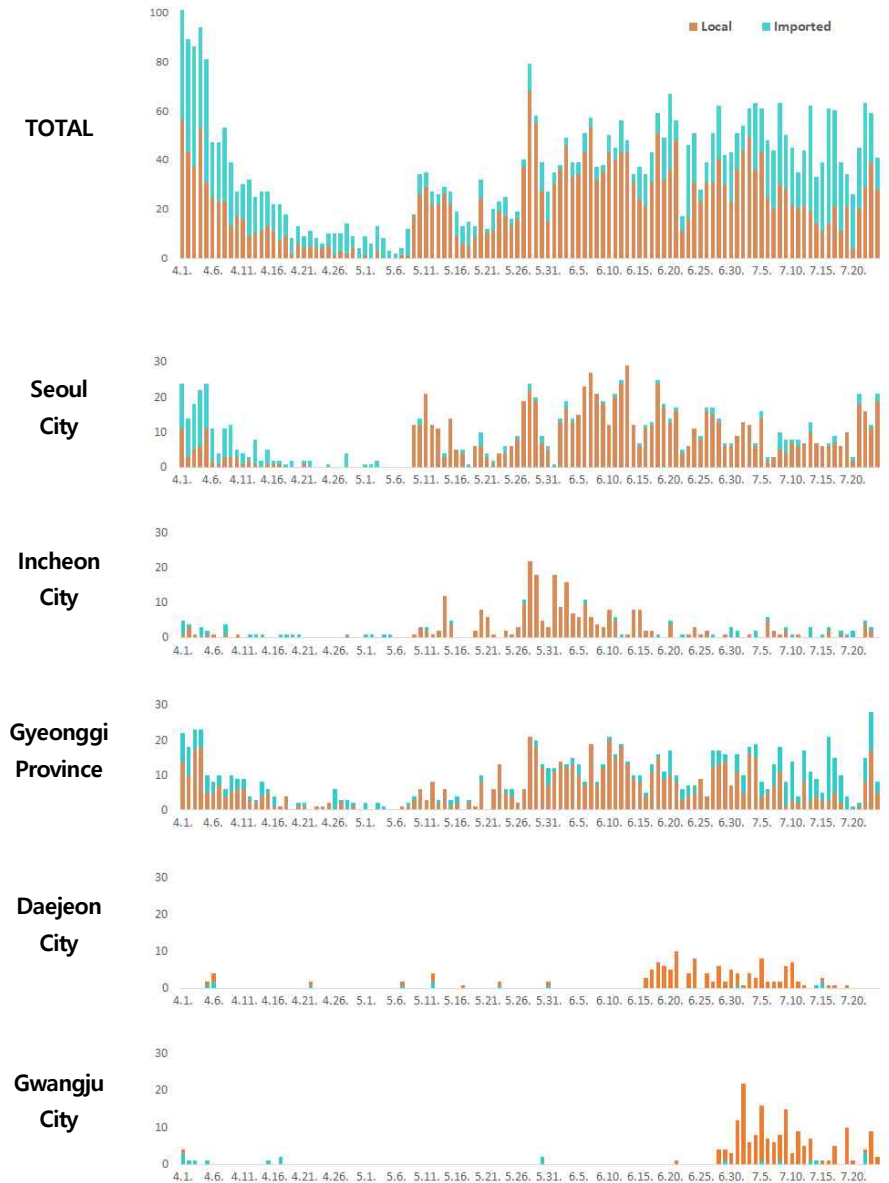


Gyeonggi	1,487	382	1,001	29	835	72	65	104	8	Grace River Church (67), Coupang (67), Nightclubs (59), Richway (58), Uijeongbu St. Mary's Hospital (50), Guro-gu call center-Bucheon SaengMyeongSu Church (50), SMR door-to-door sales (32), Yangcheon-gu sport facility (28), SMR Newly planted churches group (25), Lord Glory Church (25), Anyang-Gunpo pastors group (22), Uijeongbu Apartment (22), Lotte Confectionery logistics center (15), Pocheon military garrison (15) , Wangsung Church (10), Gangnam office (YooHwan DnC) (9), Seongnam neighbors gathering (7), Gwanak-gu office (4), etc.
Gangwon	72	21	44	17	26	0	1	7	0	Uijeongbu St. Mary's Hospital (10), Apartments in Wonju (4), Richway (4), Geumcheon-gu rice milling machine manufacturer (4), etc.
Chungbuk	72	16	45	6	29	8	2	11	0	Goesan-gun Jangyeon-myeon (11), Nightclubs (9), Guro-gu call center (2), etc.
Chungnam	187	28	147	0	142	4	1	12	0	Gym facilities in Cheonan (103), Daejeon door-to-door sales (15), Richway (3), etc.
Jeonbuk	39	21	13	1	12	0	0	5	0	Daejeon door-to-door sales (3), Nightclubs (2)
Jeonnam	35	18	14	1	10	2	1	3	0	Gwangju door-to-door sales (8), etc.
Gyeongbuk	1,396	27	1,236	566	478	192	0	133	1	Cheongdo Daenam Hospital (119), Bonghwa Pureun Nursing Home (68), Gyeongsan Seo Convalescent Hospital (66), pilgrimage to Israel (41), Yecheon-gun (40), Gumi Elim Church (10), etc.
Gyeongnam	158	48	90	32	50	6	2	20	2	Geochang Church (10), Wings Tower (9), Geochang Woongyang-myeon (8), Nightclubs (2), etc.
Jeju	26	15	7	0	6	0	1	4	0	Gwanak-gu office related (5), etc.
Ports of Entry	1,005	1,005	0	0	0	0	0	0	3	
Total	13,979 (%)	2,158 (15.4)	10,534 (75.4)	5,214 (37.3)	3,822 (27.3)	1,333 (9.5)	165 (1.2)	1,287 (9.2)	41	

* Not classified into a cluster or under investigation
 ※ The interim classification is based on the reporting location, which may change depending on further epidemiological investigation.



[Figure 3: Daily new confirmed cases by chain of transmission]



[Age distribution of severe cases]

	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20	7.21	7.22	7.23	7.24
Total	20	19	20	17	17	16	16	19	19	19	21	21	18	16
Severe	7	8	8	4	6	6	4	7	7	8	9	11	6	4
Very severe	13	11	12	13	11	10	12	12	12	11	12	10	12	12

	Total	Severe (%)	Very severe (%)
Total	16	4 (100)	12 (100)
80 and above	3	0 (0.0)	3 (25.0)
70-79	8	3 (75.0)	5 (41.7)
60-69	4	1 (25.0)	3 (25.0)
50-59	0	0 (0.0)	0 (0.0)
40-49	1	0 (0.0)	1 (8.3)
30-39	0	0 (0.0)	0 (0.0)
20-29	0	0 (0.0)	0 (0.0)
10-19	0	0 (0.0)	0 (0.0)
0-9	0	0 (0.0)	0 (0.0)

[Figure 4: New cases (for last 2 weeks) by chain of transmission]

