



KCDC

Korea Centers for Disease Control & Prevention

Updates on COVID-19 in Republic of Korea

9 July 2020

- As of 0:00, 9 July 2020, the total number of confirmed cases is 13,293 (including 1,768 imported cases), of which 12,019 cases have been discharged from isolation. There are 28 new local cases, 22 new imported cases, and 2 new deaths.

[Table 1. Total reported/tested cases]

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 8 July (Wed)	1,359,734	13,243*	11,970	988	285	24,012	1,322,479
As of 0:00 9 July (Thu)	1,371,771	13,293	12,019	987	287	23,912	1,334,566
Difference	(+12,037)	(+50)	(+49)	(-1)	(+2)	(-100)	(+12,087)

* Figure differs from yesterday due to correction of duplicate reports (1 case from Gyeongbuk Province)

- The current state* of major local clusters as of today (as of 12:00, 9 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 Wangsung Church in Gwanak-gu, Seoul, 1 additional church member in home quarantine was confirmed. In total, 39* cases have been confirmed.
 - * Seoul = 30; Gyeonggi = 9
 - Related to a financial institution in Gangnam-gu, Seoul City, 1 additional case was confirmed. In total, 8* cases have been confirmed related to this cluster.
 - * 3 July = 5 / 3 July = 1 / 4 July = 1 / 8 July = 1
 - Related to door-to-door sales group in the Seoul metropolitan area, 1 additional case was confirmed. Also, 3 previously confirmed cases whose source of infection was uncertain have been found to be linked to the Happy-rang Healing Center at Gunpo-si. In total, 34* cases have been confirmed.
 - * Gyeonggi = 25; Incheon = 7, Seoul = 2

Category	Index case confirmed	Number of related confirmed cases
Suwon-si church gathering	27 June	7
Incheon apartments door-to-door sales	29 June	9
Gwanak Withyee door-to-door sales	29 June	3
Gunpo Happy-rang Healing Center	28 June	9 (+4)
Goyang Wondang Catholic Church	2 July	6
Total		34

- Related to the The Joeun Clinic in Seo-gu, Daejeon City, 2 additional cases were confirmed. In total, 12 cases have been confirmed.



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- Related to the door-to-door sales group in Gwangju City, 10 additional cases were confirmed. The new cases are related to Hanwul Nursing Home (2), Ilgok Central Church (2), SM Sauna (2), and workplace of the confirmed case from Ilgok Central Church (4). In total, 105 cases have been confirmed.

Category	Index case confirmed	Number of related confirmed cases
Gwangneuksa Temple	27 June	13
Geumyang Building (officetel)	27 June	25
Tourist group	30 June	5
Gwangju Love Church	30 June	17
CCC Agape Silver Center	30 June	7
Hanwul Nursing Home	1 July	9 (+2)
Gwangju Ilgok Central Church	2 July	19 (+2)
SM Sauna	1 July	6 (+2)
T WORLD (mobile phone store)	4 July	4 (+4)
Total		105

* Subject to change based on findings from epidemiological investigation

- Related to an Gwangju Gosi Hagwon (exam preparation academy) in Dong-gu, Gwangju City, 6 new cases were confirmed. In total, 12 cases have been confirmed.
- The (presumed) location of infection acquisition of the 22 new imported cases are: America (8), Africa (1), and Asia excluding China (13) (Kazakhstan=6; Uzbekistan=3; Philippines=2; Iraq=1; Russia=1).

[Table 2. Imported cases in Korea (as of 0:00, 9 July 2020)]

	Total	Region/Country						Where confirmed		Nationality	
		China	Asia ex-China	Europe	Americas	Africa	Australia	Point of Entry	Community	Korean	Other
New	22	0	13	0	8	1	0	5	17	5	17
Total	1768	19 (1.1%)	594 (33.6%)	500 (28.3%)	633 (35.8%)	21 (1.2%)	1 (0.1%)	809 (45.8%)	959 (54.2%)	1,299 (73.5%)	469 (26.5%)

* Figures may change based on findings from ongoing local epidemiological investigation efforts

- During 8 July, 157 ships entered 11 harbors (seaports) nationwide. On-board quarantine inspection was conducted for 55 ships.
- The KCDC expressed gratitude for the 49 additional people who signed up to donate their plasma for the development of COVID-19 plasma therapy and encouraged more eligible people to participate. In total, 361 people have registered. Plasma collection has been completed for 158 of the donors as of today.
 - Plasma therapy requires a large amount of blood as it involves formulating a concentrated form of the antibodies and immunoglobulin from the blood of people who have recovered from COVID-19.
 - People aged 18-64 who have been confirmed with COVID-19, fully recovered, discharged (released from isolation (at least 14 days ago) are able to participate.
 - * Participating hospitals: Korea University Ansan Hospital, Keimyung University Dongsan Hospital, Kyungpook National University Hospital, Daegu Fatima Hospital / For inquiries, dial 1522-6487



□ The Central Disease Control Headquarters announced preliminary findings of its study on domestic COVID-19 antibody titer.

○ The KCDC tested the first batch (1,555 in total, collected between April 21st and June 19th) of excess serums remaining from the '2020 National Health and Nutrition Examination Survey'* for antibody titer. An additional 1,500 serums (collected between May 25th and May 28th) from patients who received care at medical facilities in south western areas of Seoul** were also tested for antibody titer.

* Conducts annual probability sampling of 25 households in 192 regions. Approximately 10,000 individuals over 1 year of age are surveyed for health and nutrition. (Appendix 3, available in Korean only)

** Guro-gu, Yangcheon-gu, Gwanak-gu, Geumcheon-gu, Yeongdeungpo-gu

○ The screening test and plaque reduction neutralization test (PRNT) results: all serums from the 2020 National Health and Nutrition Examination Survey came out negative; 1 serum collected in south western areas of Seoul came out positive.

* plaque reduction neutralization test (PRNT) : serological test used to quantify the titer of virus-specific neutralizing antibodies (i.e. antibodies that can neutralize the pathogen) out of all antibodies within a subject

○ After a meeting with relevant experts in the field on July 8th to analyze these preliminary results, it was concluded that because the survey did not include a number of locations with major clusters (e.g. Daegu), estimation of the national infection scale based on these results would be limited due to insufficient sample representativeness.

- In addition, antibodies were expected to be less prevalent compared to other countries,* thanks to society's early collective efforts in response to COVID-19 including voluntary testing, testing capacity, and citizens actively participating in effective social distancing campaigns.

* Antibody survey results in other countries: Spain, nationwide (5%) / London, England (17%) / Stockholm, Sweden (7.3%) / Tokyo, Japan (0.1%) (Appendix 4, available in Korean only)

○ From here on out, serums collected from the National Health and Nutrition Examination Survey will be studied every 2 months. Starting July, antibody titer assay will be conducted on an expanded range of sex, age, and areas to include an additional 3,300 people in the general population including in Daegu and Gyungbuk regions. A more accurate understanding of the level of herd immunity and the prevalence of asymptomatic infections from more detailed surveys will further improve our response against COVID-19.

□ The Central Disease Control Headquarters advised that transmission of COVID-19 occurs in places that lack ventilation, are crowded, and are in close proximity. Therefore, it asked that people postpone meetings and gatherings, while refraining from going to pubs, karaokes, PC cafes, or other publicly used facilities.

- It was requested that citizens regularly wash their hands, wear a mask, and practice social distancing (2m recommended).



[Table 4: Regional distribution and epidemiological links of the confirmed cases]

Region	Confirmed cases									Other major clusters
	Total	Imported cases	Clusters					Other*	New cases	
			Sub-total	Shincheonji	Other local clusters	Contacts of confirmed cases	Linked to imported cases			
Seoul	1,393	314	957	8	833	47	69	122	8	Nightclubs (139), Richway (121), 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), Dong-an Church-PC Cafe (28), Coupang (24), Wangsung Church (30) , Gangnam Yeoksam-dong gathering (12), Daejeon door-to-door sales (8), Uijeongbu Apartment (8), Gangnam-gu financial institution (8) , etc.
Busan	156	37	89	12	58	18	1	30	0	Onchun Church (39), Suyeong-gu Kindergarten (5), Nightclubs (4), etc.
Daegu	6,926	46	6,131	4,511	699	917	4	749	0	Second Mi-Ju Hospital (196), Hansarang Convalescent Hospital (124), Daesil Convalescent Hospital (101), Fatima Hospital (39), Daegu Acting Academy (11), Nightclubs (2), etc.
Incheon	358	66	281	2	260	11	8	11	3	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 (6), Car enthusiast group (4) etc.
Gwangju	144	19	120	9	92	13	6	5	15	Gwangju door-to-door sales (88) , Gwangju goshi hagwon (4), etc.
Daejeon	149	16	112	2	91	19	0	21	6	Door-to-door sales in Daejeon (56), The Joen Clinic (10), etc.
Ulsan	55	22	26	16	4	3	3	7	0	
Sejong	50	5	44	1	40	3	0	1	0	Ministry of Oceans and Fisheries (31), gym facilities (8)



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Gyeonggi	1,323	283	943	29	776	74	64	97	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), Yangcheon-gu sport facility (28), SMR Newly planted churches group (25), Lord Glory Church (25), Anyang-Gunpo pastors group (22), Uijeongbu Apartment (21), SMR door-to-door sales (19), Lotte Confectionery logistics center (15), Wangsung Church (9), Seongnam neighbors gathering (7), etc.
Gangwon	67	17	43	17	26	0	0	7	0	Uijeongbu St. Mary's Hospital (10), Apartments in Wonju (4), Richway (4), Geumcheon-gu rice milling machine manufacturer (4), etc.
Chungbuk	66	11	45	6	29	8	2	10	0	Goesan-gun Jangyeon-myeon (11), Nightclubs (9), Guro-gu call center (2), etc.
Chungnam	180	21	147	0	142	4	1	12	1	Gym facilities in Cheonan (103), Daejeon door-to-door sales (15), Richway (3), etc.
Jeonbuk	33	17	11	1	10	0	0	5	1	Daejeon door-to-door sales (3), Nightclubs (2)
Jeonnam	29	15	9	1	5	2	1	5	1	Gwangju door-to-door sales (2)
Gyeongbuk	1,393	24	1,236	566	478	192	0	133	0	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	142	32	90	32	50	6	2	20	2	Geochang Church (10), Wings Tower (9), Geochang Woongyang-myeon (8), Nightclubs (2), etc.
Jeju	20	14	2	0	1	0	1	4	0	
Ports of Entry	809	809	0	0	0	0	0	0	5	
Total	13,293 (%)	1,768 (13.3)	10,286 (77.4)	5,213 (39.2)	3,594 (27.1)	1,317 (9.9)	162 (1.2)	1,239 (9.3)	50	

* 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.



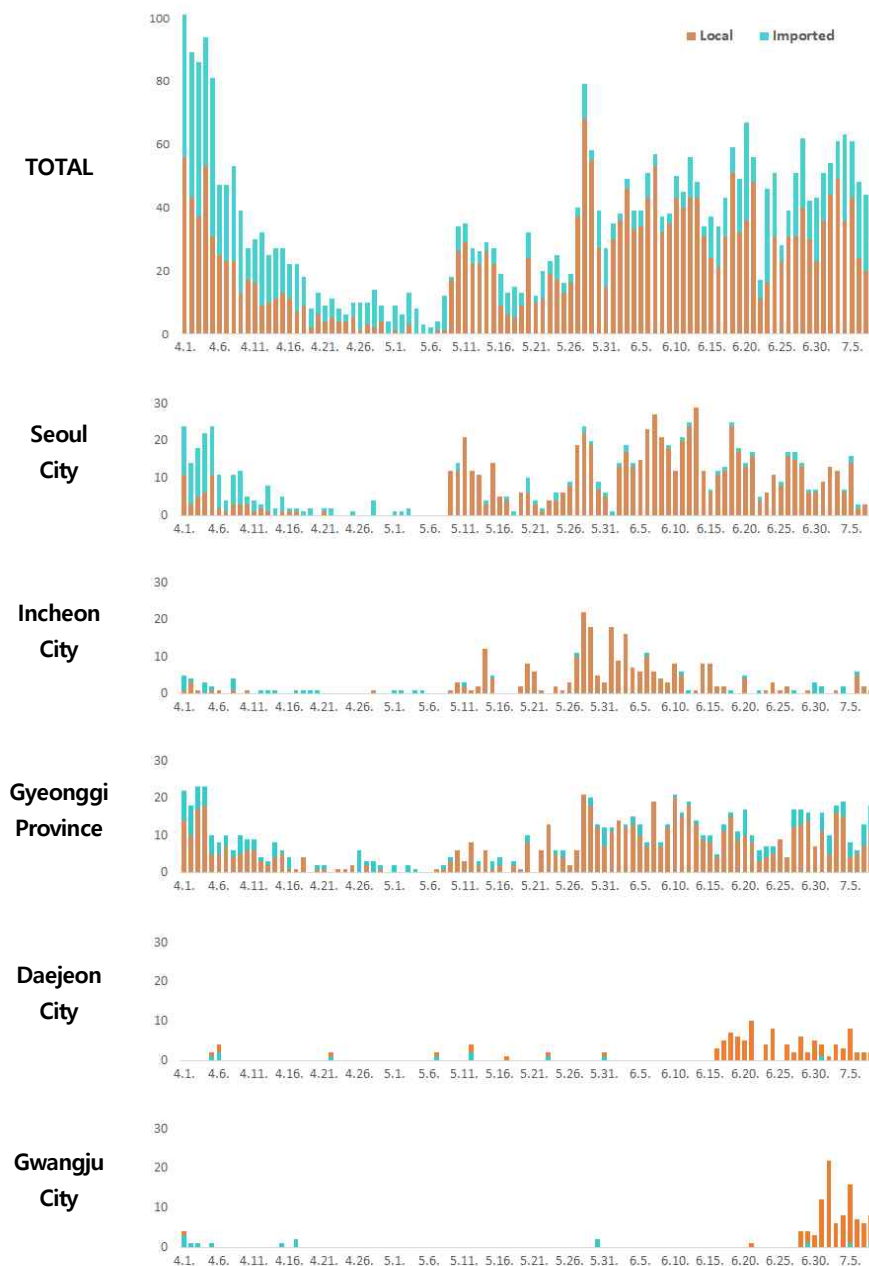
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[Figure 3: Daily new confirmed cases by chain of transmission]





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[Table 5: Age distribution of severe cases]

	6.26	6.27	6.28	6.29	6.30	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9
Total	35	30	32	32	32	33	34	34	30	32	32	36	31	26
Severe	15	12	13	13	11	13	16	13	11	11	11	12	9	7
Very severe	20	18	19	19	21	20	18	21	19	21	21	24	22	19

	Total	Severe (%)	Very severe (%)
Total	26	7 (100.0)	19 (100.0)
80 and above	7	1 (11.1)	6 (36.4)
70-79	9	1 (22.2)	8 (36.4)
60-69	4	3 (44.4)	1 (4.5)
50-59	6	2 (22.2)	4 (22.7)
40-49	0	0 (0.0)	0 (0.0)
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]

