



# Updates on COVID-19 in Republic of Korea

KCDC

Korea Centers for Disease Control & Prevention

20 June 2020

- As of 0:00, 20 June 2020, the total number of confirmed cases is 12,373 (including 1,427 imported cases), of which 10,856 cases have been discharged from isolation. Newly confirmed cases are 67 in total.

[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 19 June (Fri)	1,158,063	12,306	10,835	1,191	280	21,190	1,124,567
As of 0:00 20 June (Sat)	1,170,901	12,373	10,856	1,237	280	21,470	1,137,058
Difference	+12,838	+67	+21	+46	-	+280	+12,491

[Table 2. Imported cases in Korea (as of 0:00, 20 June 2020)]

	Total	Region/Country						Where confirmed		Nationality	
		China	Asia ex-China	Europe	Americas	Africa	Australia	Point of Entry	Community	Korean	Other
New	31	0	28	0	3	0	0	18	13	7	24
Total	1,427	19 (1.3%)	330 (23.1%)	484 (33.9%)	578 (40.5%)	15 (1.1%)	1 (0.1%)	626 (43.9%)	801 (56.1%)	1,173 (82.2%)	254 (17.8%)

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

- As of 0:00 20 June, there are 31 imported cases, of which 3 are from Americas, 28 are from Asia excluding China (16 from Pakistan, 7 from Bangladesh, 2 from Indonesia, 1 from the Philippines, 1 from Kazakhstan, and 1 from India).
- As of 12:00 20 June, confirmed cases and their chain of transmissions are as below.
  - Related to Richway in Gwangak-gu, Seoul, 6 additional cases were confirmed. The new cases were contacts under quarantine. In total, 193\* cases have been confirmed.

\* Visitors = 41; Contacts = 152 / Seoul = 107; Gyeonggi = 56; Incheon = 24; Gangwon = 3; Chungnam = 3

Richway-related onward transmissions		
Category	Location	Number of confirmed cases
Chinese Migrants Church Shelter	Seoul Guro-gu	8
Myeongseong Housing	Seoul Gangnam-gu	40
Principle School of English	Seoul Gangnam-gu	18
SJ Investment call center	Seoul Gangseo-gu	16
Jesus Vision Church	Seoul Geumcheon-gu	9
NBS Partners	Gyeonggi Seongnam-si	15
Church of God	Gyeonggi Seongnam-si	11
Jesus Malsseum Silcheon Church	Incheon Namdong-gu	9
Family, work, etc.		26
<b>Total</b>		<b>152</b>



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- Related to the sport facility in Yangcheon-gu, Seoul, 1 additional case was confirmed. The new case was a contact under self-quarantine. In total, 70\* cases have been confirmed.
  - \* Table tennis facility related = 41; Yongin Big Tree church related = 29
- Related to Sungsim Day Care Center in Dobong-gu, Seoul, 2 additional cases were confirmed under contact management. In total, 42\* cases have been confirmed.
  - \* Users = 24; Staff/workers = 5; Family and others = 13
- Related to Great Nature Korea located in Guro-gu, Seoul, 4 additional cases were additionally confirmed as a result of epidemiological investigation which was linked to a case confirmed on 9 June. This confirmed case visited Great Nature Korea. Investigation on chain of transmission and contact testing are underway.
- Related to a rice polishing machinery company at Geomchun-gu, Seoul, 4 additional cases were confirmed as a result of epidemiological investigation. In total, 13 cases were confirmed.
- Related to Lotte Confectionery Logistics at Uiwang-si, Gyeonggi Province, 10 additional cases were confirmed who were under contact management. In total, 15\* cases were confirmed.
- Related to door-to-door sales\* in Goejeong-dong, Seo-gu, Daejeon City, 16 additional cases were confirmed. In total, 40\*\* cases have been confirmed.
- As a result of recent increase of imported cases, KCDC participated in a meeting with relevant authorities today (20 June) in order to put together a strategy to strengthen special entry measures for inbound travelers.
- KCDC also stated that the last 2 weeks of chain of transmission showed the spread of COVID-19 into non-metropolitan areas such as Daejeon city and Jeonbuk province through various routes such as restaurants, religious groups, and door-to-door sales. As the situation is getting worse with a possibility of national outbreak, KCDC asked the public to take special attention during the weekend.

<Last 2 weeks of confirmed cases within community(exclu. imported cases)>

Dates	6.7	6.8	6.9	6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
Seoul Metropolitan Region	52	33	33	40	40	42	43	29	22	17	25	39	26	27
Other areas	1	0	2	3	0	1	0	2	2	4	6	12	6	9
<b>Total</b>	<b>53</b>	<b>33</b>	<b>35</b>	<b>43</b>	<b>40</b>	<b>43</b>	<b>43</b>	<b>31</b>	<b>24</b>	<b>21</b>	<b>31</b>	<b>51</b>	<b>32</b>	<b>36</b>

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

- As a result of epidemiological investigations of a confirmed case from Jeonju Girls' High School, Jeonju city, Jeollabuk Province, it was confirmed that the routes overlap at the restaurant in Jeonju on the 12 June with two confirmed cases related to door-to-door sales from Daejeon city. Taking into the consideration of transmission within a restaurant in the past cases\*, investigation is underway with the possibility of a transmission.

\* A case which 6 out of 7 people being confirmed after dining together as 2 groups sitting next to each other at a pub located in Gangnam-gu, Seoul (Daedong House, Bongeunsa-ro, Gangnam-gu), around 22:00~24:00 on the 5 June



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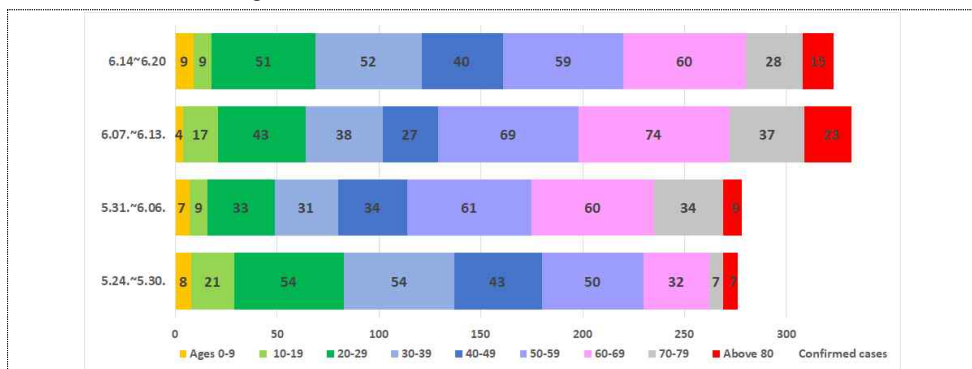
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- KCDC asked everyone to observe the distancing in daily life guidelines such as reducing unnecessary meetings and refrain from using restaurants when symptoms occur, since the risk of transmission is high within the restaurants due to its nature which makes people eat and talk without wearing facemasks in a dense and confined environment.
- As a result of analyzing the cases of patients in Daejeon area, from mid-June to this week, middle-aged businessmen spread COVID-19 to acquaintances and general users through meetings at business briefings, cafeterias, cafes, churches, beauty salons, and saunas. By region, it spread into Daejeon, Sejong, Gyeryong, Gongju, Nonsan, Chungju, Jeonju, and Seoul Metropolitan Area. As the risk of transmission is high,
  - KCDC encouraged everyone to keep the distancing in daily life guidelines when using crowded facilities, and for the citizens of Daejeon and Chungcheong Province, KCDC urged for them to visit screening clinics if there have fever and respiratory symptoms and used a facility which was visited by confirmed cases.
  - Particularly over the weekend, KCDC asked people to hold religious gatherings non-face-to-face methods and cancel or postpone small group gatherings as they are often in a concentrated place and having conversations, singing hymns, sharing meals, can cause the droplets to spread the virus.
  - If on-site workshop is inevitable, KCDC asked to reduce the size of participants to maintain the distance, check fever and suspicious symptoms, make people wash hands and wear facemasks. KCDC also asked not to provide meals and conducting of activities that may cause splashes of droplets (singing, shouting, etc.).
- Although the percentage of elderly confirmed cases aged 60 years and above have decreased (40.2% → 31.9%, ▲8.3%p), from the last week (6.7~6.13), it still remains as a high proportion. Therefore, KCDC especially asked senior citizens to take precautions as a high-risk group that is likely to lead to severe cases when confirmed.

< Age distribution of confirmed cases in the last 4 weeks >



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- They should avoid meetings in places without windows or with poor ventilation, and refrain from going out or to a meeting as much as possible.
- If such an occasion is unavoidable, activities which causes droplets to splash such as eating and singing should be refrained. Masks should be worn and frequent hand washing or sanitizing should be practiced.
- KCDC advised elderly people to take good care their chronic medical conditions. They are encouraged to utilize over-the-phone consultations for not to miss necessary consultations, to take prescribed pills, and to wear a facemask when visiting a clinic or a hospital.
- They are also asked to take regular exercises, including light home exercises and stretching as well as taking a walk regularly at places and times with less foot traffic outside.
- Since COVID-19 outbreak can occur in any confined, crowded, and close-contact environment, KCDC asked citizens to postpone gatherings such as social club meetings and religious small groups, and refrain from visiting nightlife facilities, bars, karaoke, and PC cafes. KCDC also asked people to practice hand washing, mask wearing, and 2 meter distancing.
- The National Institute of Health have identified the causes of vulnerability for patients with stroke, diabetes and smokers which led to severe cases once confirmed with COVID-19.
- Since COVID-19 virus binds its spike protein to Angiotensin-Converting Enzyme (ACE2\*) and penetrates into cells and amplifies, patients with more ACE2 can be at a higher risk than those who do not.

\* **ACE2 (Angiotensin-Converting Enzyme 2): A protein that exists in the cell membranes of various body tissues such as the lungs, heart, and arteries. It replaces angiotensin 2(vasoconstrictor substance) with angiotensin 1-7(vasodilator substance) which lowers the blood pressure.** On the other hand, ACE2 is known as a **receptor used when the COVID-19 virus (SARS-CoV-2) penetrates into human cells.**

- In addition, the ACE2 on the cell surface decreases during the intercellular infiltration process of the COVID-19 virus, which increases the angiotensin 2 and leads to an increase in blood pressure, which then increases the likelihood of progression to severe.
- Cigarette smoke, stroke, and diabetes cause an increase in ACE2, the receptor of COVID-19 in a cell, which increases the likelihood of severe progression of a person with above underlying illness when infected with COVID-19.
- Therefore, smokers and people with underlying diseases such as diabetes and stroke need to take extra precautions to preventive measures such as stop smoking, and practicing social distancing guidelines to prevent COVID-19.



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[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	Shin-cheonji	Other clusters	Contacts of confirmed cases				Imported cases
Seoul	1,202	291	824	8	724	23	69	87	14	Nightclubs (139), Guro-gu call center (99), <b>Richway (105)</b> , <b>Yangcheon-gu table tennis club (42)</b> , Manmin Central Church (41), SMR newly planted churches group (37), <b>Seongsim Day Care Center (36)</b> , Dong-an Church-PC Cafe (28), Coupang (24), KB Life Insurance PM Service Agency (13), KCCC (7), biblical language study meeting (6), Yeonana News Class (5), etc.
Busan	150	32	88	12	57	18	1	30	2	Onchun Church (39), Suyeong-gu Kindergarten (5), Nightclubs (4), etc.
Daegu	6,898	35	6,119	4,511	686	918	4	744	2	Second Mi-Ju Hospital (196), Hansarang Convalescent Hospital (124), Daesil Convalescent Hospital (101), Fatima Hospital (39), Nightclubs (2), etc.
Incheon	328	53	265	2	250	6	7	10	5	SMR newly planted churches group (57), Coupang (57), Nightclubs (54), <b>Richway (24)</b> , Guro-gu call center (19), Gyeong-gu real estate agency family (11), Jesus Malsseum Silcheon Church (5), Brothers in Yonjin/Goyang (2), etc.
Gwangju	32	16	16	9	0	1	6	0	0	
Daejeon	72	15	45	2	35	8	0	12	5	<b>Door-to-door sales in Daejeon (12)</b> , Korea Forest Engineer Institute (3), etc.
Ulsan	53	22	24	16	2	3	3	7	0	
Sejong	48	4	43	1	39	3	0	1	0	Ministry of Oceans and Fisheries (31), gym facilities (8)
Gyeonggi	1,107	219	815	29	664	59	63	73	17	Grace River Church in Seongnam (67), Coupang (67), Nightclubs (59), <b>Richway (56)</b> , Uijeongbu St. Mary's Hospital (50), Guro-gu call center-Bucheon SaengMyeongSu Church (50), Yangcheon-gu table tennis club (26), SMR newly planted churches group (25), Anyang-Gunpo pastors group (22), Happy Care Home (10), biblical language study meeting (9), KCCC (7), Defense Security Support Command (6), Seoul City Hall Station safety worker (5), <b>Uiwang Lotte Confectionary logistics center(3)</b> , etc.
Gangwon	60	16	37	17	20	0	0	7	0	Uijeongbu St. Mary's Hospital (10), Apartments in Wonju (4), Richway (3), Nightclubs (2), etc.
Chungbuk	61	9	42	6	27	7	2	10	0	Goesan-gun Jangyeon-myeon (11), Nightclubs (9), Guro-gu call center (2), etc.
Chungnam	158	14	132	0	129	2	1	12	2	Gym facilities in Cheonan (103), research center in Seosan (8), <b>Daejeon door-to-door sales (5)</b> , Richway (3), etc.
Jeonbuk	23	11	6	1	5	0	0	6	1	Nightclubs (2)
Jeonnam	20	12	5	1	1	2	1	3	0	
Gyeongbuk	1,384	17	1,234	566	478	190	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	132	22	90	32	50	6	2	20	0	Geochang Church (10), Wings Tower (9), Geochang Woongyang-myeon (8), Nightclubs (2), etc.
Jeju	19	13	2	0	1	0	1	4	0	
Airport	626	626	0	0	0	0	0	0	18	
Total	12,373 (%)	1,427 (11.5)	9,787 (79.1)	5,213 (42.1)	3,168 (25.6)	1,246 (10.1)	160 (1.3)	1,159 (9.4)	67	

\* 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.



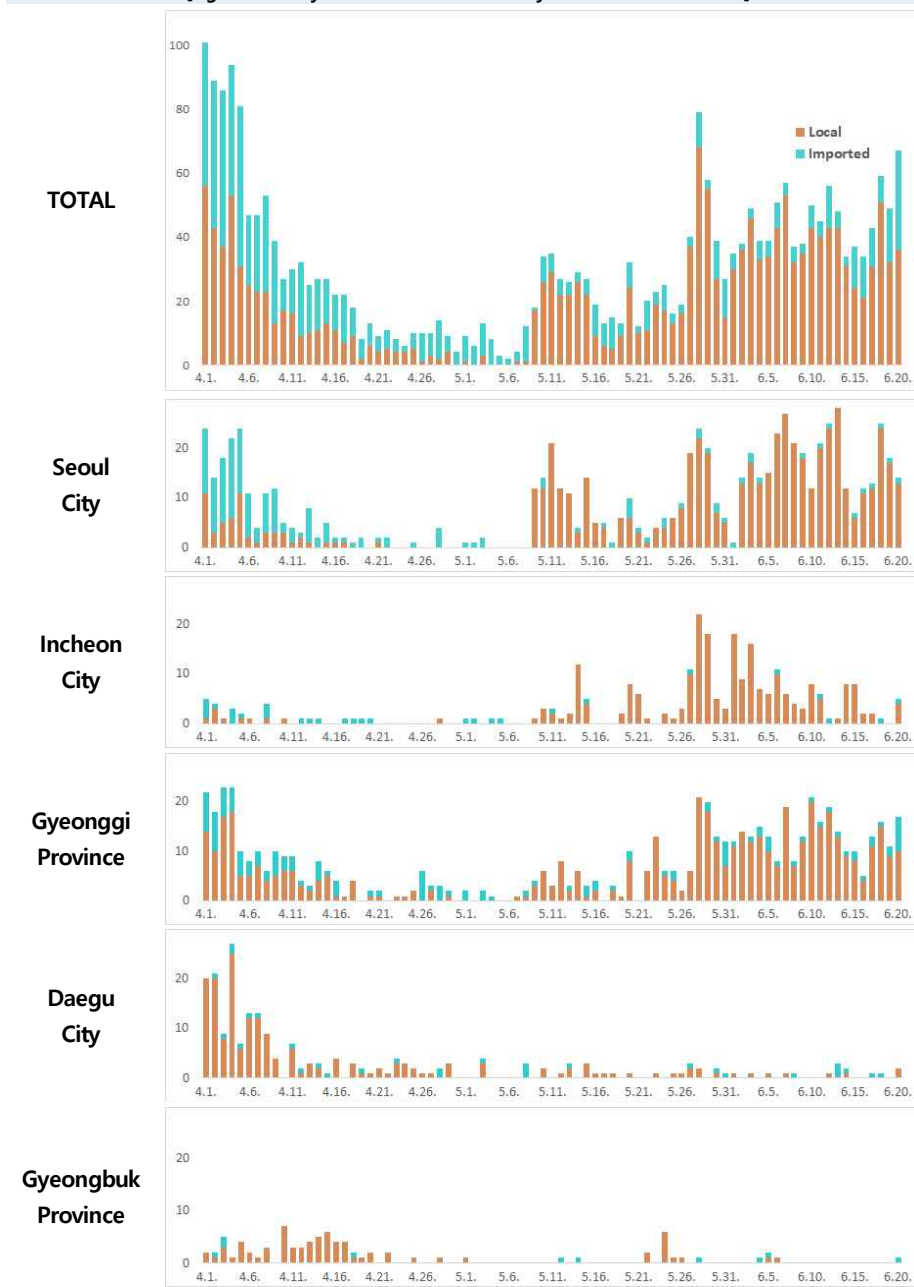
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[Figure 3: Daily new confirmed cases by chain of transmission]





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[Table 5: Age distribution of severe cases]

	6.7	6.8	6.9	6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
<b>Total</b>	14	14	18	20	20	18	22	22	20	24	25	27	33	33
<b>Severe</b>	6	6	11	11	8	6	11	10	10	15	15	16	21	17
<b>Very severe</b>	8	8	7	9	12	12	11	12	10	9	10	11	12	16

	Total	Severe ( % )	Very severe ( % )
Total	33	17 ( 100.0 )	16 ( 100.0 )
80 and above	4	2 ( 11.8 )	2 ( 12.5 )
70-79	9	4 ( 23.5 )	5 ( 31.3 )
60-69	13	7 ( 41.2 )	6 ( 37.5 )
50-59	5	2 ( 11.8 )	3 ( 18.8 )
40-49	2	2 ( 11.8 )	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]

