

A survey concerning the psychological distress due to the COVID-19 pandemic on infectious diseases physicians in the Republic of Korea

This survey will investigate the psychological distress experienced by infectious disease physicians and use the data for future measures and prevention. The survey is anonymous and without financial incentive. It is expected to take about 15 minutes, and participation of personnel other than the infectious diseases physicians (excluding fellows in training) is limited.

0. Agreement to participate in the survey

Do you agree to participate in this survey (a survey to investigate the psychological distress due to the COVID-19 pandemic on infectious diseases physicians in the Republic of Korea)?

Yes No

1. Baseline information concerning the respondent and the affiliated hospital

1-1. Sex Male Female

1-2. Age (_____years)

1-3. Year of acquisition to the infectious diseases board? (_____)

1-4. Please indicate your position (multiple responses)

Director of the clinical department Director of Infection Control

Other assigned position in the hospital (_____) Not applicable

1-5. What type of medical institution do you work for?

Tertiary-care hospital Secondary-care hospital

Hospital Clinic

1-6. Which of the following is the medical institution where you work?

National University hospital Private University hospital

Public Hospital; Non-University hospital Private hospital; Non-University hospital

Other (_____)

1-7. Please select the size of the medical institution you work for.

- <300 beds 300-600 beds 600-900 beds
 900-1200 beds ≥1200 beds

1-8. Does the hospital where you work run a state-designated negative-pressure isolation unit?

- Yes No

1-9. Where is your work area?

- Seoul Incheon Gyeonggi-do Busan
 Daegu Ulsan Gyeongsangnam-do
 Gyeongsangbuk-do Daejeon/Sejong Chungcheongnam-do
 Chungcheongbuk-do Gwangju Jeollanam-do
 Jeollabuk-do Gangwon-do Jeju-do

1-10. How many infectious diseases specialists are there in the hospital where you work? (_____)

1-11. How many confirmed patients with COVID-19 have you treated so far as an attending physician or physician? (including patients who have been dispatched to a living and treatment support center or another institution)

- <10 10-29 30-49 50-99
 100-199 200-299 ≥300

2. Duty status and hours of work

2-1. Are you taking part in night-time or weekend care related to COVID-19?

- Yes No

2-2. How many hours do you usually work a day?

Working day	Total working hours	COVID-19 related working hours
Weekday	() Hours () Minutes	() Hours () Minutes
Saturday	() Hours () Minutes	() Hours () Minutes
Sunday	() Hours () Minutes	() Hours () Minutes
Holidays (excluding	() Hours () Minutes	() Hours () Minutes

Saturdays and Sundays)		
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2-3. What is the percentage of daily work related to COVID-19?

- ≤20% 21-40% 41-60% 61-80% 81-100%

3. Motivation and satisfaction

3-1. Do you have a feeling of pride or responsibility in your current COVID-19 related work? (patient care, infection control, etc.)

- Yes No I don't know

3-2. Are you satisfied with the work you are doing?

- Yes No I don't know

3-3. Considering the fact that you are dealing with infectious disease epidemic situations such as COVID-19, if you were able to choose your specialty again, would you choose infectious diseases again?

- Yes No I don't know

3-4. The following are some protective factors against psychological distress as an infectious physician. Please answer each question.

1 - I disagree. 2 - I partially disagree, 3 – Neutral, 4 – I agree to a certain extent, 5 – I totally agree

I feel my professional opinions are valued by other physicians	1	2	3	4	5
I feel that my contributions are adequately recognized and acknowledged by my supervisors	1	2	3	4	5
I feel that I am adequately financially compensated for my work	1	2	3	4	5
I feel that I have adequate support staff for maximum productivity in this role	1	2	3	4	5
I feel that it is possible to balance work and non-work responsibilities	1	2	3	4	5
I do not often have to complete work at home (clinician, infection control, and research)	1	2	3	4	5
I feel that I have adequate coverage of my work responsibilities to tend to personal matters, emergencies, illness, etc.	1	2	3	4	5
I feel that my spouse or partner values my work	1	2	3	4	5
Childcare is not a significant source of stress for me	1	2	3	4	5
My spouse/partner and I try our best to share household responsibilities equally	1	2	3	4	5
I have enough time to do something I enjoy	1	2	3	4	5

I feel that my career is a large part of my identity as an adult	1	2	3	4	5
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4. Difficulty in responding COVID-19, COVID-19 related burnout, depression, anxiety, and stress

4-1. Do you fear the possibility of spreading COVID-19 to your family or colleague because of you?

- Not at all It's not quite like that Neutral, I do a little bit Most of the time

4-2. Please select three items for the areas where you find the most difficult to deal with COVID-19 (patient care, infection control, research, etc).

- Lack of attending physician who cares for COVID-19 patients
- Lack of airborne infection isolation room
- Lack of COVID-19 related guideline
- Lack of infection control team practitioners
- Lack of personal protective equipment
- Lack of guideline about reuse personal protective equipment
- Difficulty in linking basic research
- Missing sample storage location
- Research regulation (IRB, etc.)
- Difficulty in multicenter study
- Pressure of research

4-3. Please answer the following questions (Maslach Burn Inventory, MBI measurement tools). Please take into account the situation within a month based on the survey response date.

Please see the following reference:

Maslach C, Jackson SE, Michael P. Leiter. Maslach Burnout Inventory Manual. 4th ed. <https://www.mindgarden.com//117-maslach-burnout-inventory>.

4-4. Please answer the following questions (depression, anxiety and stress, DASS-21). Please take into account the situation within a month, based on the survey response date.

Please see the following reference:

Lovibond SH, Lovibond PF. Manual for the depression anxiety stress scales. Sydney, N.S.W. : Psychology Foundation of Australia, c1995.