



Supplementary Table S1. Precautionary behavioral survey response results, by sex and age group *.

| Questionnaire | Sex | | p-Value | Age Group | | | | | p-Value |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|---------|------------------|--------------------|--------------------|--------------------|------------------|---------|
| | Male (n = 600) | Female (n = 1116) | | ≤29 (n = 804) | 30–39 (n = 297) | 40–49 (n = 264) | 50–59 (n = 246) | ≥60 (n = 105) | |
| Handwashing (4) | | | | | | | | | |
| I always washed my hands after going to the bathroom. | 4.21 (0.86) | 4.54 (0.74) | <0.001 | 4.46 (0.8) | 4.55 (0.73) | 4.44 (0.78) | 4.25 (0.84) | 4.22 (0.8) | <0.001 |
| I always washed my hands (or used hand sanitizer) before eating. | 3.78 (1.09) | 4.02 (1.06) | <0.001 | 3.92 (1.09) | 4.03 (1.08) | 3.96 (1.07) | 3.83 (1.03) | 3.92 (0.99) | 0.297 |
| I washed my hands (or used hand sanitizer) if I thought that my hands might have been contaminated because I shook hands, touched the mask, or held a doorknob. | 3.59 (1.18) | 3.77 (1.2) | 0.003 | 3.72 (1.2) | 3.84 (1.2) | 3.62 (1.25) | 3.58 (1.2) | 3.72 (1.08) | 0.111 |
| I washed my hands when I returned home from outside. | 4.11 (0.96) | 4.41 (0.87) | <0.001 | 4.37 (0.92) | 4.44 (0.84) | 4.29 (0.89) | 4.04 (0.97) | 4.1 (0.89) | <0.001 |
| Coughing behavior (1) | | | | | | | | | |
| I covered my mouth with tissue when coughing or coughed into my elbow. | 4.11 (1.0) | 4.3 (0.92) | <0.001 | 4.33 (0.9) | 4.39 (0.86) | 4.08 (1.08) | 3.99 (1.0) | 4.0 (0.98) | <0.001 |
| Mask-wearing (4) | | | | | | | | | |
| I always wore a mask during hospital visit. | 4.14 (1.11) | 4.32 (1.08) | 0.001 | 4.34 (1.05) | 4.33 (1.12) | 4.21 (1.16) | 4.07 (1.09) | 4.09 (1.1) | 0.003 |
| I always wore a mask when talking with someone within a two-meter radius. | 3.67 (1.27) | 3.72 (1.27) | 0.416 | 3.68 (1.29) | 3.79 (1.29) | 3.71 (1.3) | 3.61 (1.19) | 3.85 (1.16) | 0.341 |
| I wore a mask by ensuring that the mouth and the nose are covered. | 4.01 (1.14) | 4.13 (1.12) | 0.03 | 4.16 (1.12) | 4.17 (1.12) | 4.02 (1.19) | 3.89 (1.1) | 3.98 (1.13) | 0.008 |
| I tried to avoid touching the surfaces of used masks. | 3.58 (1.2) | 3.65 (1.17) | 0.258 | 3.62 (1.21) | 3.67 (1.18) | 3.63 (1.21) | 3.55 (1.09) | 3.64 (1.12) | 0.852 |
| Person-to-person contact (5) | | | | | | | | | |
| I did not attend social gatherings. | 3.9 (1.25) | 3.89 (1.28) | 0.85 | 3.81 (1.33) | 3.99 (1.19) | 3.98 (1.21) | 3.83 (1.25) | 4.16 (1.08) | 0.019 |
| My working arrangements has changed. (e.g., video or online conferences, working from home, flexible work arrangement, etc.) | 3.35 (1.47) | 3.39 (1.56) | 0.622 | 3.46 (1.56) | 3.29 (1.53) | 3.34 (1.51) | 3.12 (1.5) | 3.7 (1.29) | 0.005 |
| I tried to avoid eating out. | 3.95 (1.22) | 4.05 (1.18) | 0.079 | 4.01 (1.22) | 4.01 (1.19) | 4.09 (1.17) | 3.93 (1.16) | 4.09 (1.13) | 0.612 |
| I avoided mass gatherings that might bring me into contact with many people. | 3.89 (1.22) | 3.96 (1.24) | 0.27 | 3.89 (1.3) | 3.93 (1.22) | 3.99 (1.18) | 3.93 (1.16) | 4.14 (1.0) | 0.32 |
| I avoided contact with others when I had symptoms like fever and a cough. | 4.23 (1.01) | 4.35 (0.9) | 0.019 | 4.28 (0.95) | 4.36 (0.92) | 4.34 (0.94) | 4.26 (0.92) | 4.34 (0.93) | 0.595 |

* For a period of two weeks before confirmation/being quarantined.

Supplementary Table S2. Psychological survey response results, by sex and age group.

| Questionnaire | Sex | | p-Value | Age Group | | | | | p-Value |
|---------------------------------------------------------------------------------|-------------------|----------------------|---------|------------------|--------------------|--------------------|--------------------|------------------|---------|
| | Male (n = 600) | Female (n = 1116) | | ≤29 (n = 804) | 30–39 (n = 297) | 40–49 (n = 264) | 50–59 (n = 246) | ≥60 (n = 105) | |
| Attribution of infection (3) | | | | | | | | | |
| COVID-19 patients can prevent themselves from contracting the virus. | 2.76 (1.24) | 2.48 (1.12) | <0.001 | 2.69 (1.16) | 2.56 (1.2) | 2.41 (1.11) | 2.35 (1.12) | 2.71 (1.25) | <0.001 |
| COVID-19 patients are responsible for their own infection. | 2.53 (1.09) | 2.24 (0.98) | <0.001 | 2.46 (1.01) | 2.42 (1.04) | 2.14 (0.99) | 1.97 (0.95) | 2.54 (1.13) | <0.001 |
| It is the COVID-19 patients' own fault that they have the disease. | 2.65 (1.06) | 2.36 (1.02) | <0.001 | 2.48 (0.98) | 2.45 (1.03) | 2.36 (1.03) | 2.39 (1.2) | 2.82 (1.13) | 0.003 |
| Fear of situation (2) | | | | | | | | | |
| I am afraid that I will be re-infected with COVID-19 after receiving treatment. | 3.28 (1.16) | 3.78 (1.0) | <0.001 | 3.53 (1.11) | 3.68 (1.11) | 3.59 (1.02) | 3.77 (1.02) | 3.65 (1.07) | 0.023 |
| * I am afraid that I will be confirmed as infected with COVID-19. | | | | | | | | | |
| I am afraid that I will not be fully recovered. | | | | | | | | | |
| * I am afraid of being an asymptomatic infected patient. | 2.6 (1.2) | 3.12 (1.23) | <0.001 | 2.92 (1.27) | 3.08 (1.3) | 2.93 (1.18) | 2.91 (1.17) | 2.7 (1.11) | 0.086 |
| Fear of stigma (2) | | | | | | | | | |

| Questionnaire | Sex | | p-Value | Age Group | | | | | p-Value |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|---------|------------------|--------------------|--------------------|--------------------|------------------|---------|
| | Male (n = 600) | Female (n = 1116) | | ≤29 (n = 804) | 30–39 (n = 297) | 40–49 (n = 264) | 50–59 (n = 246) | ≥60 (n = 105) | |
| I am afraid of being blamed because I was a confirmed patient infected with COVID-19. * I am afraid of being blamed because I was quarantined. | 3.18 (1.33) | 3.63 (1.2) | <0.001 | 3.35 (1.31) | 3.59 (1.29) | 3.5 (1.21) | 3.73 (1.12) | 3.34 (1.18) | <0.001 |
| I am afraid that if there are confirmed cases in my area, the area will be criticized or damaged for the reason. | 3.0(1.27) | 3.4(1.13) | <0.001 | 3.08 (1.23) | 3.41 (1.16) | 3.37 (1.16) | 3.54 (1.08) | 3.21 (1.17) | <0.001 |
| Stress (5) | | | | | | | | | |
| I am obsessed with searching for COVID-19 news and information. | 2.33 (0.89) | 2.58 (0.93) | <0.001 | 2.26 (0.93) | 2.52 (0.94) | 2.71 (0.85) | 2.84 (0.82) | 2.73 (0.81) | <0.001 |
| I am cautious and dubious about other people because I am afraid of getting re-infected. * I am cautious and dubious about other people because I am afraid of getting infected. | 2.38 (0.84) | 2.67 (0.83) | <0.001 | 2.38 (0.87) | 2.62 (0.8) | 2.69 (0.81) | 2.87 (0.73) | 2.76 (0.73) | <0.001 |
| I feel helpless and am losing interest in what I did well before. | 2.15 (0.93) | 2.44 (0.97) | <0.001 | 2.24 (0.98) | 2.35 (0.99) | 2.44 (0.91) | 2.55 (0.93) | 2.31 (0.96) | <0.001 |
| I get more easily annoyed and upset than before. | 1.99 (0.89) | 2.18 (0.95) | <0.001 | 2.06 (0.95) | 2.14 (0.93) | 2.14 (0.91) | 2.24 (0.9) | 2.09 (0.94) | 0.125 |
| I have experienced a physical response, such as headache, indigestion, and insomnia. | 1.86 (0.91) | 2.32 (1.01) | <0.001 | 2.09 (1.03) | 2.09 (0.99) | 2.32 (1.0) | 2.28 (0.94) | 2.19 (0.86) | 0.003 |
| Perceived daily life disruption due to COVID-19 out-break. | | | | | | | | | |
| How much did your daily life differ because of the COVID-19 outbreak? | 4.94 (2.87) | 4.07 (2.76) | <0.001 | 4.07 (2.73) | 4.31 (2.78) | 4.6 (2.81) | 4.83 (3.01) | 5.29 (2.98) | <0.001 |

* For persons in quarantine due to COVID-19.

Supplementary Table S3. Needs for confirmed patients and quarantined persons, by sex and age group.

| Questionnaire | Sex | | p-Value | Age Group | | | | | p-Value |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|---------|------------------|--------------------|--------------------|--------------------|------------------|---------|
| | Male (n = 600) | Female (n = 1116) | | ≤29 (n = 804) | 30–39 (n = 297) | 40–49 (n = 264) | 50–59 (n = 246) | ≥60 (n = 105) | |
| Needs (6) | | | | | | | | | |
| Early detection of the confirmed patient. * Early detection of the subject of quarantine. | 4.41 (0.92) | 4.52 (0.8) | 0.013 | 4.39 (0.85) | 4.47 (0.88) | 4.63 (0.8) | 4.63 (0.84) | 4.57 (0.85) | <0.001 |
| Quality of the treatment of the confirmed patient. * Level of health management of the quarantined person. | 3.77 (1.03) | 3.88 (0.98) | 0.026 | 3.72 (0.97) | 3.9 (0.92) | 3.88 (1.03) | 4.04 (1.04) | 3.95 (1.06) | <0.001 |
| Psychological and emotional support for the confirmed patient. * Psychological and emotional support for the quarantined person. | 3.9 (1.01) | 4.04 (0.92) | 0.005 | 3.9 (0.98) | 4.05 (0.89) | 4.15 (0.91) | 4.16 (0.94) | 3.8 (0.99) | <0.001 |
| Financial support for the confirmed patient. * Financial support for the quarantined person. | 4.38 (0.82) | 4.42 (0.78) | 0.241 | 4.36 (0.81) | 4.4 (0.78) | 4.49 (0.76) | 4.63 (0.67) | 4.11 (0.93) | <0.001 |
| Protection of human rights and privacy for the confirmed patient. * Protection of human rights and privacy for the quarantined person. | 4.4 (0.91) | 4.56 (0.78) | <0.001 | 4.45 (0.89) | 4.47 (0.82) | 4.61 (0.72) | 4.67 (0.68) | 4.36 (0.92) | <0.001 |
| Providing adequate information for the confirmed patient. * Providing adequate information for the quarantined person. | 4.5 (0.73) | 4.55 (0.73) | 0.172 | 4.51 (0.75) | 4.55 (0.7) | 4.58 (0.72) | 4.61 (0.68) | 4.42 (0.76) | 0.115 |

* For persons in quarantine due to COVID-19.

Supplementary Table S4. Precautionary behavioral survey response results in persons quarantined, by contact or abroad *.

| Questionnaire | Quarantined (n = 586) | | p-Value |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|---------|
| | Contact (n = 177) | Abroad (n = 409) | |
| Handwashing (4) | | | |
| I always washed my hands after going to the bathroom. | 4.54 (0.7) | 4.72 (0.53) | 0.003 |
| I always washed my hands (or used hand sanitizer) before eating. | 4.13 (0.97) | 4.35 (0.87) | 0.006 |
| I washed my hands (or used hand sanitizer) if I thought that my hands might have been contaminated because I shook hands, touched the mask, or held a doorknob. | 3.9 (1.07) | 4.31 (0.92) | <0.001 |
| I washed my hands when I returned home from outside. | 4.43 (0.81) | 4.69 (0.62) | <0.001 |
| Coughing behavior (1) | | | |
| I covered my mouth with tissue when coughing or coughed into my elbow. | 4.43 (0.84) | 4.6 (0.64) | 0.017 |
| Mask-wearing (4) | | | |
| I always wore a mask during hospital visit. | 4.33 (1.31) | 4.63 (0.77) | 0.001 |
| I always wore a mask when talking with someone within a two-meter radius. | 3.75 (1.21) | 4.19 (1.06) | <0.001 |
| I wore a mask by ensuring that the mouth and the nose are covered. | 4.28 (1.02) | 4.51 (0.85) | 0.01 |
| I tried to avoid touching the surfaces of used masks. | 3.88 (1.05) | 3.97 (1.08) | 0.724 |
| Person-to-person contact (5) | | | |
| I did not attend social gatherings. | 3.8 (1.24) | 4.35 (0.92) | <0.001 |
| My working arrangements has changed. (e.g., video or online conferences, working from home, flexible work arrangement, etc.). | 2.93 (1.48) | 4.22 (1.18) | <0.001 |
| I tried to avoid eating out. | 3.9 (1.12) | 4.5 (0.84) | <0.001 |
| I avoided mass gatherings that might bring me into contact with many people. | 3.84 (1.18) | 4.48 (0.77) | <0.001 |
| I avoided contact with others when I had symptoms like fever and a cough. | 4.27 (0.96) | 4.59 (0.7) | <0.001 |

* For a period of two weeks before being quarantined.

Supplementary Table S5. Psychological survey response results in persons quarantined, by contact or abroad.

| Questionnaire | Quarantined (n = 586) | | p-Value |
|------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|---------|
| | Contact (n = 177) | Abroad (n = 409) | |
| Attribution of infection (3) | | | |
| COVID-19 patients can prevent themselves from contracting the virus. | 2.64 (1.16) | 2.9 (1.2) | 0.017 |
| COVID-19 patients are responsible for their own infection. | 2.57 (0.96) | 2.92 (0.95) | <0.001 |
| It is the COVID-19 patients' own fault that they have the disease. | 2.8 (0.92) | 2.89 (0.89) | 0.223 |
| Fear of situation (2) | | | |
| I am afraid that I will be confirmed as infected with COVID-19. | 3.59 (0.99) | 3.4 (1.07) | 0.039 |
| I am afraid of being an asymptomatic infected patient. | 3.05 (1.19) | 2.99 (1.15) | 0.546 |
| Fear of stigma (2) | | | |
| I am afraid of being blamed because I was quarantined. | 3.26 (1.33) | 2.67 (1.28) | <0.001 |
| I am afraid that if there are confirmed cases in my area, the area will be criticized or damaged for the reason. | 3.15 (1.16) | 2.8 (1.16) | <0.001 |
| Stress (5) | | | |
| I am obsessed with searching for COVID-19 news and information. | 2.53 (0.83) | 2.26 (0.86) | <0.001 |
| I am cautious and dubious about other people because I am afraid of getting infected. | 2.5 (0.75) | 2.35 (0.84) | 0.042 |
| I feel helpless and am losing interest in what I did well before. | 2.16 (0.93) | 2.07 (0.93) | 0.284 |
| I get more easily annoyed and upset than before. | 2.09 (0.92) | 1.87 (0.9) | 0.006 |
| I have experienced a physical response, such as headache, indigestion, and insomnia. | 1.99 (0.94) | 1.94 (0.97) | 0.521 |
| Perceived daily life disruption due to COVID-19 out-break. | | | |
| How much did your daily life differ because of the COVID-19 outbreak? | 4.98 (2.71) | 4.44 (2.85) | 0.03 |

Supplementary Table S6. Needs for quarantined persons, by contact or abroad.

| Questionnaire | Quarantined (<i>n</i> = 586) | | <i>p</i> -Value |
|--------------------------------------------------------------------|-------------------------------|-----------------------------|-----------------|
| | Contact (<i>n</i> = 177) | Abroad (<i>n</i> = 409) | |
| Needs (6) | | | |
| Early detection of the subject of quarantine. | 4.5 (0.87) | 4.42 (0.9) | 0.293 |
| Level of health management of the quarantined person. | 4.09 (0.83) | 3.85 (0.97) | 0.002 |
| Psychological and emotional support for the quarantined person. | 4.09 (0.89) | 3.82 (1.02) | 0.001 |
| Financial support for the quarantined person. | 4.2 (0.84) | 4.0 (0.94) | 0.013 |
| Protection of human rights and privacy for the quarantined person. | 4.29 (0.84) | 3.88 (1.03) | <0.001 |
| Providing adequate information for the quarantined person. | 4.5 (0.72) | 4.33 (0.88) | 0.015 |