| Characteristics                        | Prognosis at discharge |            |            |            | Statistic<sup>a</sup> | P-value<sup>a</sup> |
|---------------------------------------|------------------------|------------|------------|------------|------------------------|-------------------|
|                                       | Dead       | Unhealed  | Improved   | Cured     |            |                   |
| Sex                                   |            |           |            |            |            |                   |
| Male                                  | 18         | 3         | 39         | 674       | -1.887     | 0.059             |
| Female                                | 14         | 1         | 46         | 970       |            |                   |
| Marital status                        |            |           |            |            |            |                   |
| Unmarried                             | 0          | 0         | 1          | 66        | 27.057     | <0.0001*          |
| Married                               | 19         | 4         | 77         | 1482      |            |                   |
| Widowed                               | 12         | 0         | 5          | 73        |            |                   |
| Divorced                              | 1          | 0         | 2          | 23        |            |                   |
| Occupation                            |            |           |            |            |            |                   |
| Worker                                | 1          | 1         | 6          | 78        | 1488.791   | <0.0001*          |
| Farmer                                | 3          | 1         | 3          | 68        |            |                   |
| Office worker                         | 0          | 0         | 11         | 168       |            |                   |
| Civil servant                         | 0          | 0         | 2          | 42        |            |                   |
| Professional and technological worker | 0          | 0         | 1          | 47        |            |                   |
| Self-employed person                  | 0          | 0         | 2          | 42        |            |                   |
| Freelancer                            | 0          | 1         | 3          | 111       |            |                   |
| Student                               | 0          | 0         | 0          | 16        |            |                   |
| Retiree                               | 22         | 1         | 41         | 700       |            |                   |
| Unemployed                            | 3          | 0         | 10         | 184       |            |                   |
| Others                                | 3          | 0         | 6          | 188       |            |                   |
| Exposure history (contact with someone with confirmed or suspected COVID-19 during the 2 weeks preceding the onset of illness) | | | | | 39.330 | <0.0001* |
| No                                    | 0          | 1         | 61         | 936       |            |                   |
| Yes                                   | 1          | 0         | 16         | 460       |            |                   |
| Unknown                               | 31         | 3         | 8          | 248       |            |                   |
| Relationship between patients and people with COVID-19 to whom they were exposed | | | | | 9.449 | 0.051 |
| Family members                        | 0          | 0         | 12         | 318       |            |                   |
| Colleagues                            | 0          | 0         | 1          | 35        |            |                   |
| Social interaction                    | 0          | 0         | 2          | 48        |            |                   |
| Characteristics                          | Prognosis at discharge | Statistic<sup>a</sup> | P-value<sup>a</sup> |
|-----------------------------------------|------------------------|------------------------|---------------------|
|                                         | Dead | Unhealed | Improved | Cured |                     |
| Shared transportation                   | 0    | 0        | 1        | 11    |                     |
| Others                                  | 32   | 4        | 69       | 1232  |                     |
| **Source of exposure**                  |      |          |          |       | 24.964              | 0.001*                 |
| Eating together                         | 0    | 0        | 7        | 118   |                     |
| Staying in the same room                | 0    | 0        | 6        | 212   |                     |
| Living in the same ward                 | 0    | 0        | 1        | 16    |                     |
| Sharing utensils with patients          | 0    | 0        | 0        | 5     |                     |
| Contacting with patient secretions     | 0    | 0        | 0        | 4     |                     |
| Treatment and care                      | 0    | 1        | 58       | 769   |                     |
| Visiting patient                        | 0    | 0        | 0        | 5     |                     |
| Others                                  | 32   | 3        | 13       | 515   |                     |
| **Time period of exposure**             |      |          |          |       | 14.840              | 0.001*                 |
| Prolonged                               | 0    | 0        | 10       | 335   |                     |
| Brief                                   | 0    | 0        | 3        | 97    |                     |
| Uncertain                               | 32   | 4        | 72       | 1212  |                     |
| **Possible location of exposure**       |      |          |          |       | 9.518               | 0.090                  |
| Home                                    | 0    | 0        | 12       | 295   |                     |
| Workplace                               | 0    | 0        | 1        | 39    |                     |
| Dormitories                             | 1    | 0        | 1        | 11    |                     |
| Hospitals                               | 0    | 0        | 1        | 30    |                     |
| Indoor public places                    | 0    | 0        | 4        | 36    |                     |
| Others                                  | 31   | 4        | 66       | 1233  |                     |
| **Admission route**                     |      |          |          |       | 3.313               | 0.346                  |
| Emergency department                    | 1    | 0        | 1        | 21    |                     |
| Outpatient department                   | 1    | 0        | 5        | 41    |                     |
| Referral from other hospitals           | 3    | 0        | 7        | 109   |                     |
| Others                                  | 27   | 4        | 72       | 1473  |                     |
| **Illness condition on admission**      |      |          |          |       | 3.342               | 0.342                  |
| Without symptoms                        | 0    | 0        | 1        | 9     |                     |
| Unknown                                 | 0    | 0        | 1        | 2     |                     |
| Clinically uncertain                    | 1    | 0        | 0        | 19    |                     |
| With symptoms                           | 31   | 4        | 83       | 1614  |                     |
| **Critical degree on admission**        |      |          |          |       | 170.592             | <0.0001*               |
| Dangerous                               | 19   | 0        | 8        | 45    |                     |
| Emergent                                | 8    | 0        | 10       | 48    |                     |
| Moderate                                | 5    | 4        | 67       | 1551  |                     |
| Characteristics                                      | Prognosis at discharge |   |   |   | Statistic\(^a\) | P-value\(^a\) |
|-----------------------------------------------------|------------------------|---|---|---|----------------|--------------|
| **Undergoing surgery during hospitalization**       | Dead       | Unhealed | Improved | Cured |               |              |
| No                                                  | 29         | 4        | 85       | 1639  | -3.646         | 0.000\(^*\)  |
| Yes                                                 | 3          | 0        | 0        | 5     |                |              |
| **Undergoing resuscitation during hospitalization** |                        |   |   |   |                |              |
| No                                                  | 2          | 4        | 81       | 1620  | -16.606        | <0.0001\(^*\) |
| Yes                                                 | 30         | 0        | 4        | 24    |                |              |
| **Developing critical illness during hospitalization**|                        |   |   |   |                |              |
| No                                                  | 0          | 4        | 60       | 1495  | -12.892        | <0.0001\(^*\) |
| Yes                                                 | 32         | 0        | 25       | 149   |                |              |
| **Requiring consultation during hospitalization**    |                        |   |   |   |                |              |
| No                                                  | 10         | 4        | 76       | 1568  | 144.350        | <0.0001\(^*\) |
| In-hospital consultation                             | 13         | 0        | 8        | 72    |                |              |
| Consultation with outside specialists                | 9          | 0        | 1        | 4     |                |              |
| **Being complex cases during hospitalization**       |                        |   |   |   |                |              |
| No                                                  | 20         | 4        | 82       | 1625  | -9.047         | <0.0001\(^*\) |
| Yes                                                 | 12         | 0        | 3        | 19    |                |              |
| **Reported initial symptoms**                        |                        |   |   |   |                |              |
| Fever                                               | 14         | 3        | 45       | 897   | -0.730         | 0.465        |
| Cough                                               | 13         | 1        | 42       | 731   | -0.355         | 0.723        |
| Expectoration                                       | 4          | 1        | 7        | 100   | -1.703         | 0.089        |
| Dry cough                                           | 0          | 0        | 2        | 157   | 2.939          | 0.003\(^*\)  |
| Stuffy nose and / or runny nose                     | 1          | 0        | 0        | 17    | 0.171          | 0.864        |
| Pant                                                | 5          | 0        | 9        | 148   | -0.966         | 0.334        |
| Shortness of breath                                 | 4          | 0        | 5        | 117   | -0.169         | 0.866        |
| Fatigue                                             | 6          | 2        | 18       | 511   | 2.213          | 0.027\(^*\)  |
| Chest distress and / or chest pain                  | 3          | 0        | 16       | 218   | -0.711         | 0.477        |
| Dizziness and / or headache                         | 0          | 1        | 1        | 26    | -0.067         | 0.946        |
| Abdominal pain and / or diarrhea and / or bloating  | 0          | 0        | 1        | 37    | 1.054          | 0.292        |
| Sore throat                                         | 0          | 0        | 2        | 56    | 1.065          | 0.287        |
| Dyspnea                                             | 3          | 0        | 5        | 23    | -4.244         | <0.0001\(^*\) |
| Hemoptysis                                          | 0          | 0        | 0        | 2     | 0.382          | 0.703        |
| Characteristics                  | Prognosis at discharge | Statistic<sup>a</sup> | P-value<sup>a</sup> |
|---------------------------------|------------------------|------------------------|---------------------|
|                                 | Dead | Unhealed | Improved | Cured |                       |
| Palpitation                     | 1    | 0        | 0        | 18    | 0.229                  | 0.819                  |
| Muscle pain                     | 0    | 1        | 1        | 43    | 0.642                  | 0.521                  |
| Chest and / or back pain        | 0    | 0        | 1        | 6     | -0.748                 | 0.455                  |
| Nausea and / or vomit           | 1    | 1        | 0        | 19    | -0.556                 | 0.578                  |
| Poor appetite                   | 2    | 0        | 2        | 45    | -0.401                 | 0.688                  |
| Chill                           | 0    | 0        | 0        | 25    | 1.365                  | 0.172                  |
| Disturbance of consciousness   | 8    | 0        | 0        | 2     | -9.677                 | <0.0001<sup>*</sup>     |
| and apathy                      |      |          |          |       |                        |                       |
| Viral pneumonia                 | 0    | 0        | 0        | 2     | 0.382                  | 0.703                  |
| Tuberculosis                    | 0    | 0        | 0        | 1     | 0.269                  | 0.788                  |
| Unknown                         | 4    | 0        | 1        | 13    | -3.697                 | 0.000<sup>†</sup>      |
| **Current symptoms during hospitalization** | | | | | |
| Fever                           | 16   | 3        | 48       | 992   | -1.092                 | 0.275                  |
| Cough                           | 16   | 1        | 48       | 1019  | -1.828                 | 0.068                  |
| Chest distress                  | 4    | 0        | 20       | 366   | 0.667                  | 0.505                  |
| Dyspnea                         | 6    | 0        | 7        | 64    | -3.631                 | 0.000<sup>*</sup>      |
| **Clinical manifestations**     | | | | | |
| Fever                           | 1    | 1        | 27       | 703   | 4.136                  | <0.0001<sup>*</sup>    |
| Cough                           | 1    | 0        | 34       | 765   | 3.873                  | 0.000<sup>*</sup>      |
| Catarrh of the upper respiratory tract | 1    | 0        | 6        | 189   | 1.950                  | 0.051                  |
| Chest distress                  | 1    | 0        | 25       | 450   | 1.504                  | 0.133                  |
| Dyspnea                         | 1    | 0        | 14       | 161   | -0.848                 | 0.397                  |
| Fatigue                         | 1    | 0        | 28       | 629   | 3.237                  | 0.001<sup>*</sup>      |
| Diarrhea                        | 0    | 0        | 4        | 70    | 0.542                  | 0.588                  |
| **Previous medical history**    | | | | | |
| Without                         | 12   | 4        | 54       | 1193  | -3.539                 | 0.000<sup>†</sup>      |
| With                            | 20   | 0        | 31       | 451   |                        |                       |
| **Self-reported underlying diseases** | | | | | |
| Hypertension                    | 12   | 0        | 35       | 481   | -2.198                 | 0.028<sup>*</sup>      |
| Diabetes                        | 5    | 1        | 18       | 202   | -2.372                 | 0.018<sup>*</sup>      |
| Coronary heart disease          | 4    | 0        | 3        | 93    | -0.116                 | 0.908                  |
| Chronic bronchitis              | 1    | 0        | 2        | 38    | -0.124                 | 0.901                  |
| COPD                            | 0    | 0        | 2        | 7     | -1.773                 | 0.076                  |
| Hyperlipoidemia                 | 0    | 0        | 0        | 23    | 1.308                  | 0.191                  |
| Asthma                          | 0    | 0        | 1        | 13    | -0.020                 | 0.984                  |
| Atrial fibrillation             | 4    | 0        | 0        | 8     | -3.870                 | 0.000<sup>*</sup>      |
| Bronchiectasis                  | 0    | 0        | 0        | 8     | 0.768                  | 0.443                  |
| Characteristics                          | Prognosis at discharge | Statistic\(^a\) | P-value\(^a\) |
|-----------------------------------------|------------------------|-----------------|--------------|
|                                        | Dead | Unhealed | Improved | Cured |                      |
| Alzheimer’s disease                     | 3    | 0       | 1       | 11    | -3.181               | 0.002* |
| Parkinson’s disease                     | 1    | 0       | 0       | 5     | -1.033               | 0.302  |
| Smoking habits                          |      |         |         |       | 32.083               | <0.0001* |
| No                                      | 1    | 1       | 72      | 1313  |                      |        |
| Yes                                     | 0    | 0       | 5       | 69    |                      |        |
| Unknown                                 | 31   | 3       | 8       | 262   |                      |        |
| Treatment                               |      |         |         |       |                      |        |
| Oxygen therapy measures                 | 30   | 3       | 34      | 610   | -4.161               | <0.0001* |
| Antiviral therapy                       | 22   | 3       | 70      | 1160  | 1.814                | 0.070  |
| Mechanical Ventilation                  | 16   | 0       | 0       | 14    | -10.740              | <0.0001* |
| ECMO                                    | 1    | 0       | 0       | 3     | -1.535               | 0.125  |
| Circulatory support                     | 0    | 0       | 0       | 2     | 0.382                | 0.703  |
| Renal failure and renal replacement therapy | 0    | 0       | 0       | 2     | 0.382                | 0.703  |
| Blood purification therapy              | 0    | 0       | 0       | 2     | 0.382                | 0.703  |
| Immunotherapy with tocilizumab           | 8    | 0       | 0       | 12    | -6.253               | <0.0001* |
| Severe or critical child cases          | 1    | 0       | 1       | 7     | -1.866               | 0.062  |
| Pregnancy with severe or critical illness | 0     | 0       | 0       | 1     | 0.269                | 0.788  |
| Ground-glass opacity tested by CT or chest radiography | 1.825 | 0.068 | | | |
| No                                      | 1    | 1       | 5       | 203   |                      |        |
| Yes                                     | 18   | 3       | 80      | 1433  |                      |        |
| Location of ground-glass opacity        |      |         |         |       | 5.983                | 0.649  |
| Only right lung                         | 0    | 0       | 8       | 127   |                      |        |
| Only left lung                          | 1    | 0       | 4       | 88    |                      |        |
| Multiple points of both lungs           | 17   | 3       | 65      | 1141  |                      |        |
| Right and upper left lung               | 0    | 0       | 1       | 30    |                      |        |
| Right and lower left lung               | 0    | 0       | 1       | 31    |                      |        |
| Left and upper right lung               | 0    | 0       | 0       | 1     |                      |        |
| Left and middle right lung              | 0    | 0       | 1       | 9     |                      |        |
| Left and lower right lung               | 0    | 0       | 0       | 8     |                      |        |
| Unknown                                 | 14   | 1       | 5       | 209   |                      |        |
| Other observations                      |      |         |         |       |                      |        |
| obtained from imaging                   |      |         |         |       |                      |        |
| Bronchial vascular bundle thickening    | 6    | 0       | 29      | 458   | -0.192               | 0.848  |
| Swollen lymph node                      | 4    | 0       | 14      | 156   | -1.890               | 0.059  |
| Characteristics                        | Prognosis at discharge | Statistic<sup>a</sup> | P-value<sup>a</sup> |
|---------------------------------------|------------------------|-----------------------|---------------------|
|                                       | Dead | Unhealed | Improved | Cured |                   |                       |
| Pleural effusion                      | 7    | 1        | 7        | 76    | -3.831             | 0.000<sup>*</sup>     |
| **Outpatient and emergency diagnosis**|      |          |          |       | 15.167             | 0.010<sup>*</sup>     |
| Confirmed COVID-19 case               | 20   | 3        | 55       | 1253  |                   |                       |
| Clinically diagnosed COVID-19 case    | 5    | 1        | 16       | 244   |                   |                       |
| Suspected COVID-19 case               | 5    | 0        | 14       | 121   |                   |                       |
| Infected by novel coronavirus         | 2    | 0        | 0        | 12    |                   |                       |
| Viral pneumonia                       | 0    | 0        | 0        | 13    |                   |                       |
| Hypertension                          | 0    | 0        | 0        | 1     |                   |                       |
| **Admission diagnosis**               |      |          |          |       | 20.195             | 0.003<sup>*</sup>     |
| Confirmed COVID-19 case               | 19   | 3        | 58       | 1249  |                   |                       |
| Clinically diagnosed COVID-19 case    | 5    | 1        | 15       | 268   |                   |                       |
| Suspected COVID-19 case               | 6    | 0        | 12       | 107   |                   |                       |
| Infected by novel coronavirus         | 2    | 0        | 0        | 12    |                   |                       |
| Viral pneumonia                       | 0    | 0        | 0        | 5     |                   |                       |
| Hypertension                          | 0    | 0        | 0        | 2     |                   |                       |
| Chronic bronchitis                    | 0    | 0        | 0        | 1     |                   |                       |
| **Discharge diagnosis**               |      |          |          |       | 17.773             | 0.001<sup>*</sup>     |
| Confirmed COVID-19 case               | 21   | 3        | 70       | 1442  |                   |                       |
| Clinically diagnosed COVID-19 case    | 8    | 1        | 13       | 178   |                   |                       |
| Suspected COVID-19 case               | 2    | 0        | 2        | 10    |                   |                       |
| Infected by novel coronavirus         | 1    | 0        | 0        | 13    |                   |                       |
| Pneumonia                             | 0    | 0        | 0        | 1     |                   |                       |
| **Subtype of COVID-19 at discharge**  |      |          |          |       | 183.009            | <0.0001<sup>*</sup>   |
| Mild                                  | 0    | 1        | 0        | 24    |                   |                       |
| Normal                                | 2    | 2        | 33       | 891   |                   |                       |
| Severe                                | 1    | 0        | 8        | 51    |                   |                       |
| Critical                              | 16   | 0        | 1        | 9     |                   |                       |
| Suspected                             | 1    | 0        | 1        | 5     |                   |                       |
| Clinical diagnosis                    | 6    | 1        | 14       | 173   |                   |                       |
| Unknown                               | 6    | 0        | 28       | 491   |                   |                       |
| **Consistency between discharge and outpatient diagnoses** | | | | | 6.246 | 0.044<sup>*</sup> |
| Consistent                            | 31   | 4        | 84       | 1611  |                   |                       |
| Uncertain                             | 0    | 0        | 1        | 1     |                   |                       |
### Characteristics

| Characteristics | Prognosis at discharge | Statistic $^a$ | P-value $^a$ |
|-----------------|------------------------|----------------|--------------|
| Unknown         |                        |                |              |
| Consistency      |                        |                |              |
| between admission and discharge diagnoses | |                |              |
| Consistent      | Dead: 1 | Unhealed: 0 | Improved: 0 | Cured: 32 | 6.194 0.045* |
| Uncertain       | 0        | 0             | 1            | 1          |
| Unknown         | 0        | 0             | 0            | 8          |
| Consistency      |                        |                |              |
| between preoperative and postoperative diagnoses | |                |              |
| Inconsistent    | 0        | 0             | 0            | 14         |
| Consistent      | 3        | 0             | 16           | 106        |
| Uncertain       | 0        | 0             | 0            | 2          |
| Unknown         | 29       | 4             | 69           | 1522       |
| Consistency      |                        |                |              |
| between clinical and pathological diagnoses | |                |              |
| Inconsistent    | 0        | 0             | 0            | 14         |
| Consistent      | 0        | 0             | 2            | 11         |
| Uncertain       | 0        | 0             | 0            | 1          |
| Unknown         | 32       | 4             | 83           | 1618       |
| Consistency      |                        |                |              |
| between radiological and pathological diagnoses | |                |              |
| Inconsistent    | 0        | 0             | 0            | 14         |
| Consistent      | 0        | 0             | 2            | 21         |
| Uncertain       | 0        | 0             | 0            | 2          |
| Unknown         | 32       | 4             | 83           | 1607       |
| The highest evidence of diagnosis | |                |              |
| Clinical diagnosis | 14 | 2 | 24 | 374 |
| Radiography, CT, ultrasound, endoscopy | 1 | 0 | 8 | 98 |
| Biochemical and immunological test results | 15 | 2 | 29 | 882 |
| Cytological blood smear test | 1 | 0 | 3 | 17 |
| Unknown         | 1        | 0             | 21           | 273        |

$^a$ Indicates statistically significant results (p<0.05).

$^a$ The univariate analyses of these categorical variables were conducted by Wilcoxon rank test or Kruskal-Wallis H test, according to the type of these categorial variables.
The Wilcoxon rank test was used to test the relationship between prognosis and dichotomous variables. The Kruskal-Wallis H test was used to test the relationship between prognosis and multivariate variables.