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| Table 1. Demographic characteristics of liver transplant patients infected with COVID-19 |
| HospitalLength(day) | Other diseases | Symptoms during diseases | Symptoms at start  | Time to start symptoms to bed (day) | Transplant time(Month) | Marital status | Occupation | Ethnicity | Age (Year) | Sex | Case |
| 22 | Hypertension | Dyspnea,Septum cough,Fever | Dry Cough  | 3 | 35 | Married | Self-employed | Muslim-Shia | 56 | M | 1 |
| Home quarantine | Hypertension | Dry Cough, Septum cough, Dyspnea | Runny nose and eyes,Hoarseness,Nasal congestion | 10 | 120 | Married | Self-employed | Muslim-Shia | 74 | M | 2 |
| 1 | - | Dry Cough, Septum cough, Dyspnea,Myalgia, Anorexia, Confusion | Runny nose and eyes,Hoarseness,Nasal congestion | 14 | 156 | Married | Self-employed | Muslim-Shia | 64 | M | 3 |
| 12 | Brain cancer with lung metastasis+Kidney transplantation  | Septum cough, Dyspnea, Chest pain, | Dry Cough, Myalgia | 5 | 108 | Married | Self-employed | Muslim-Shia | 69 | M | 4 |
| 7 | - | Septum cough, Shortness of breath | Dry Cough | 7 | 30 | Married | Self-employed | Muslim-Shia | 44 | M | 5 |
| 7 | Ulcerative colitis | Septum cough, Dyspnea | Dry Cough, Myalgia, Fever | 7 | 36 | Married | House-keeper | Muslim-Shia | 55 | F | 6 |
| 10 | - | Fever | Fever | 7 | 60 | Married | Self-employed | Muslim-Shia | 70 | M | 7 |
| **9.8±7.02** | **-** | **-** | **-** | **7.57±3.55** | **77.85±****49.98** | **-** | **-** | **-** | **6171±10.56** |  | **Total** |

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| Table 2. The clinical course of liver transplant patients infected with COVID-19 on the first-day hospitalization. |
| Case | Physical examination | Chest x ray | CT scan | Real- PCR | Outcomes | Drugs | Laboratory tests  |
| BT (C0) | PR | RR | BP(mmHg)  | So2 % without O2 | Before hospitalization | After hospitalization | WBC(\*1000/mm2) | Lymphocyte | AST (IU/L) | ALT (IU/L) | ALP (IU/L) | Na (mEq/l) | K (mEq/l) | Cr (mg/dl) | Urea (mg/dl) | ABG |
| PH | Pco2 (mmHg) | Po2 (mmHg) | HCO3 (mol/L) |
| 1 | 38.3 | 110 | 39 | 120/80 | 89 | Positive | Positive | Negative | Dead | Tab Folic Acid- Tab Amlodipine- Tab Calcium-Tab Rapamione-Tab Cellcept-Tab Virbit (Tenofovir) | Tab Kaletra- Tab Azithromycin- Tab Hydroxychloroquine- Vial Cefepim | 5.74 | 1.39 | 38 | 26 | 114 | 139 | 3.9 | 0.9 | 20 | 7.26 | 66.8 | 76.4 | 30.6 |
| 2 | 36 | 105 | 30 | 110/70 | 89 | Positive | Positive | Positive | Alive | Tab Amlodipine -Tab Calcium –Tab Atrovestatin-Tab Cellcept- Tab Prograf-Tab Sirolimus | Tab ydroxychloroquine-Tab Azithromycin-Tab Kaletra- Tab Vit C- Tab N-acetylcysteine  | 8.7 | 1.75 | 50 | 183 | 393 | 140 | 4 | 1.44 | 21 | 7.37 | 39.3 | 90.1 | 22.4 |
| 3 | 36.8 | 82 | 19 | 100/70 | 91 | Positive | Positive | Positive | Alive | Cap Biomus- Tab Cellcept- Tab Prograf- | Tab Montecarlos- Tab zinc Sulphate- Spray Salbutamol- Spray Atrovent- Spray Seretide | 5.4 | 1.21 | 32 | 30 | 181 | 135 | 5 | 1.8 | 37 | 7.38 | 34 | 78.2 | 20.2 |
| 4 | 36.5 | 90 | 40 | 140/90 | 83 | Positive | Positive | Positive | Dead | Tab Amlodipine - Tab Cellcept- Tab Prograf- | Tab Kaletra- Tab Azithromycin- Tab Hydroxychloroquine- Vial Cefepim | 15.5 | 4.4 | 90 | 201 | 412 | 133 | 3.6 | 1.6 | 21.5 | 7.5 | 25 | 75.3 | 22.4 |
| 5 | 36.5 | 120 | 35 | 130/80 | 85 | Positive | Positive | Positive | Alive | Tab mesalazineTab methylprednisoloneTab Cellcept- Tab Prograf-Tab Calcium –tab famotidine | Tab Azithromycin- | 6.57 | 1.77 | 16 | 23 | 103 | 137 | 3.7 | 1.25 | 34 | 7.37 | 40 | 87.2 | 24.1 |
| 6 | 38.5 | 118 | 32 | 120/80 | 87 | Positive | Positive | Positive | Alive | Tab Mesalazine-Tab Myfortic- Tab Prograf-Tab prednisolone- Tab ASA | Tab Apovital Eisen - Tab Azithromycin- Spray Salbutamol- Tab Hydroxychloroquine- Tab Naproxen  | 12.25 | 1.29 | 23 | 45 | 177 | 143 | 5.43 | 1.4 | 38 | 7.43 | 32 | 82.5 | 20.5 |
| 7 | 38.5 | 120 | 20 | 110/70 | 95 | Positive | Positive | Positive | Alive | Tab Cellcept- Tab RAPAMUNE- Tab Tenofovir- Cap ursodeoxycholic acid- Tab Calcium –Tab Amlodipin- Tab Metoral- Tab Atrovestatin- | Tab Kaletra- Tab Azithromycin- Tab Hydroxychloroquine- Tab RAPAMUNE- Tab Tenofovir- Cap ursodeoxycholic acid- Tab Calcium –Tab Amlodipin- Tab Metoral- Tab Atrovestatin | 14 | 1.40 | 70 | 95 | 220 | 137 | 4 | 0.5 | 20 | 7.40 | 35 | 92.3 | 24.3 |
| **Total** | **37.32±1.12** | **106.42±15.18** | **30.71±8.44** | **118.57±13.45 & 78.42±6.87** | **88.42±3.95** | **Positive= 100%** | **Positive= 100%** | **Positive= 85.71% & Negative= 14.29%** | **Alive= 71.43% & Dead= 28.57%** | **-** | **-** | **8.7 (5.4-15.5)** | **1.40 (1.21-4.40)** | **38 (16-90)** | **45 (23-201)** | **181 (103-412)** | **137.71±3.30** | **4.23±0.69** | **1.27±0.44** | **27.35±8.49** | **7.38±0.12** | **34 (25-66)** | **76.63±1.46** | **24.20±5.63** |
| BT: Body temperature, PR: Pulse rate, RR: Respiratory rate, BP: Blood pressure, SaO2: Oxygen saturation, WBC: White blood cell, HB: Hemoglobin, Het: Hematocrit, PLT: Platelet. AST: Aspartate aminotransferase, ALT: Alanine aminotransferase, ALP: Alkaline Phosphatase, |