Table (S1) primers list.

| NCBI Reference Sequence | name | Forward primer | Reverse primer | Base pair |
|---|---|---|---|---|
| NM_014053.4 | FLVCR1 | CCCACAGACCAAGAACC | CCACCACATACAAACCC | 156 bp |
| NR_027286.1 | FLVCR1-DT | TGCTGATGTGCCCACTAAAG | CCATCATAGCCCGTCTCAGT | 153 bp |
| NM_001355243.2 | NCBP2AS2 | TTTCCTCTGCAAGTGGGACT | CATGCCTATCAACCAGCTCA | 154 bp |
| NR_102735.1 | DBH-AS1 | TTTGCCAGCATTGTTCTCTG | CGGACTCAGTTCCCTTTTGA | 152 bp |
| NR_137424.1 | A2M-AS1 | GAACAGGACTCCAGCAAAGC | GGGCACTATGCTACCCAGAA | 149 bp |
| NM_001101.5 | Beta actin | GTGGATCAGCAAGCAGGAGT | AAAGCCATGCCAATCTCATC | 147 bp |

**Table (S2): Univariate and multivariate Logistic regression analysis for the parameters affecting mortality**

| | Univariate | | #Multivariate | |
|---|---|---|---|---|
| | **p** | **OR (95%C.I)** | **p** | **OR (95%C.I)** |
| **A2M-AS1** | **0.020*** | 0.001(0.0 – 0.350) | 0.092 | 0.0(0.0 – 7.673) |
| **FLVCR1** | **0.267** | 0.296(0.034 – 2.540) | | |
| **DBH-AS1** | **0.011*** | 1.100(1.022 – 1.184) | 0.120 | 1.278(0.938 – 1.742) |
| **FLVCR1-DT** | **0.009*** | 1.056(1.014 – 1.100) | 0.117 | 1.217(0.952 – 1.556) |
| **NCBP2AS2-1** | **0.993** | – | | |
| **Hemoglobin (gm/dl)** | **0.311** | 1.351(0.755 – 2.417) | | |
| **WBC (x103/ul)** | **0.950** | 1.102(0.051 – 23.809) | | |
| **Platelets** | **0.862** | 1.015(0.861 – 1.196) | | |
| **Lymphocytes (103/ul)** | **0.804** | 0.869(0.288 – 2.623) | | |
| **D.dimer (mg/ml)** | **0.263** | 0.029(0.0 – 14.099) | | |
| **CRP (mg/L)** | **1.000** | 1.0(0.982 – 1.019) | | |
| **Ferritin (ng/ml)** | **0.660** | 1.022(0.928 – 1.125) | | |
| **IL6 (pg/ml)** | **0.176** | 0.503(0.186 – 1.360) | | |

OR: Odd`s ratio
C.I: Confidence interval LL: Lower limit UL: Upper Limit
#: All variables with p<0.05 was included in the multivariate
*: Statistically significant at $p \leq 0.05$

**Table (S3): Univariate and multivariate Logistic regression analysis for the parameters affecting complications**

| | Univariate | | #Multivariate | |
|---|---|---|---|---|
| | **p** | **OR (95%C.I)** | **p** | **OR (95%C.I)** |
| **A2M-AS1** | **0.162** | 0.198(0.020 – 1.921) | | |
| **FLVCR1** | **0.772** | 0.955(0.698 – 1.305) | | |
| **DBH-AS1** | **0.023*** | 1.063(1.009 – 1.120) | 0.189 | 1.042(0.980 – 1.107) |
| **FLVCR1-DT** | **0.004*** | 1.046(1.014 – 1.079) | 0.025* | 1.039(1.005 – 1.074) |
| **NCBP2AS2-1** | **0.005*** | 1.109(1.032 – 1.192) | 0.105 | 1.069(0.986 – 1.160) |
| **Hemoglobin (gm/dl)** | **0.809** | 0.954(0.652 – 1.395) | | |
| **WBC (x103/ul)** | **0.747** | 0.710(0.089 – 5.681) | | |
| **Platelets** | **0.301** | 0.943(0.844 – 1.054) | | |
| **Lymphocytes (103/ul)** | **0.698** | 0.801(0.261 – 2.456) | | |
| **D.dimer (mg/ml)** | **0.648** | 0.393(0.007 – 21.595) | | |
| **CRP (mg/L)** | **0.528** | 1.004(0.991 – 1.017) | | |
| **Ferritin (ng/ml)** | **0.502** | 0.976(0.909 – 1.048) | | |
| **IL6 (pg/ml)** | **0.825** | 1.055(0.656 – 1.697) | | |

OR: Odd`s ratio
C.I: Confidence interval LL: Lower limit UL: Upper Limit
#: All variables with p<0.05 was included in the multivariate
*: Statistically significant at $p \leq 0.05$

**Table (S4): Univariate and multivariate Logistic regression analysis for the parameters affecting mechanical ventilation**

| | Univariate | | #Multivariate | |
|---|---|---|---|---|
| | **p** | **OR (95%C.I)** | **p** | **OR (95%C.I)** |
| **A2M-AS1** | **0.466** | 0.377(0.027 – 5.179) | | |
| **FLVCR1** | **0.261** | 0.448(0.111 – 1.818) | | |
| **DBH-AS1** | **0.005*** | 1.104(1.030 – 1.182) | 0.094 | 1.089(0.986 – 1.202) |
| **FLVCR1-DT** | **0.004*** | 1.054(1.017 – 1.092) | 0.049* | 1.061(1.0 – 1.127) |
| **NCBP2AS2-1** | **0.002*** | 1.229(1.077 – 1.403) | 0.034* | 1.171(1.012 – 1.355) |
| **Hemoglobin (gm/dl)** | **0.476** | 1.186(0.742 – 1.894) | | |
| **WBC (x103/ul)** | **0.938** | 1.109(0.084 – 14.632) | | |
| **Platelets** | **0.283** | 1.087(0.934 – 1.265) | | |
| **Lymphocytes (103/ul)** | **0.712** | 0.410(0.004 – 46.436) | | |
| **D.dimer (mg/ml)** | **0.412** | 0.126(0.001 – 17.868) | | |
| **CRP (mg/L)** | **1.000** | 1.0(0.984 – 1.016) | | |
| **Ferritin (ng/ml)** | **0.639** | 1.020(0.940 – 1.106) | | |
| **IL6 (pg/ml)** | **0.169** | 0.592(0.281 – 1.250) | | |

OR: Odd`s ratio
C.I: Confidence interval LL: Lower limit UL: Upper Limit
#: All variables with p<0.05 was included in the multivariate
*: Statistically significant at $p \leq 0.05$