**SUPPLIMENTARY MATERIALS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S1**. Multivariate logistic Regression Analysis of 331 COVID-19 patients for clinical signs and outcomes (categorical variables) based on RDW-SD (fL) and Age.

|  |  |
| --- | --- |
|  | **For Fever** |
| **Predictor** | **β** | **SEβ** | **Wald’s****χ2** | **df** | **p** | **eβ****(odds ratio)** | ***95.0% C.I.for* eβ** |
| Lower | Upper |
| Constant | -1.096 | 0.933 | 1.381 | 1 | 0.24 | 0.334 |  |  |
| age  | 0.040 | 0.010 | 16.005 | 1 | **\*\*\*** | 1.041 | 1.021 | 1.061 |
| **RDW-SD (fL)** | 0.013 | 0.023 | 0.285 | 1 | 0.59 | 1.013 | 0.967 | 1.060 |

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|  |  |
| --- | --- |
|  | **For Dry cough** |
| Constant | -3.231 | 0.832 | 15.062 | 1 | **\*\*\*** | 0.040 |  |  |
| age  | 0.059 | 0.009 | 41.308 | 1 | **\*\*\*** | 1.061 | 1.042 | 1.080 |
| **RDW-SD (fL)** | 0.017 | 0.020 | 0.720 | 1 | 0.39 | 1.017 | 0.978 | 1.058 |

 |
|  | **For Fatigue\*** |
| Constant | -4.947 | 0.922 | 28.802 | 1 | **\*\*\*** | 0.007 |  |  |
| age  | 0.061 | 0.009 | 42.958 | 1 | **\*\*\*** | 1.063 | 1.044 | 1.083 |
| **RDW-SD (fL)** | 0.054 | 0.022 | 6.067 | 1 | 0.01\* | 1.055 | 1.011 | 1.101 |
|

|  |  |
| --- | --- |
|  | **For Sputum production** |
| Constant | -4.025 | 0.830 | 23.522 | 1 | **\*\*\*** | 0.018 |  |  |
| age  | 0.055 | 0.009 | 39.579 | 1 | **\*\*\*** | 1.057 | 1.039 | 1.075 |
| **RDW-SD (fL)** | 0.033 | 0.020 | 2.812 | 1 | 0.09 | 1.034 | 0.994 | 1.075 |

 |
|  | **For Loss of smell\*** |
| Constant | -4.089 | 0.754 | 29.385 | 1 | **\*\*\*** | 0.017 |  |  |
| age  | 0.024 | 0.008 | 8.292 | 1 | **\*\*** | 1.024 | 1.008 | 1.041 |
| **RDW-SD (fL)** | 0.045 | 0.018 | 6.508 | 1 | 0.01\* | 1.046 | 1.010 | 1.083 |
|

|  |  |
| --- | --- |
|  | **For Shortness of breath** |
| Constant | -2.818 | 0.701 | 16.167 | 1 | **\*\*\*** | 0.060 |  |  |
| age  | 0.014 | 0.008 | 3.119 | 1 | 0.07 | 1.014 | 0.998 | 1.030 |
| **RDW-SD (fL)** | 0.029 | 0.017 | 2.932 | 1 | 0.08 | 1.029 | 0.996 | 1.064 |

 |
|  | **For Muscle or joint pain\*** |
| Constant | -4.765 | 0.794 | 36.017 | 1 | **\*\*\*** | 0.009 |  |  |
| age  | 0.030 | 0.008 | 13.979 | 1 | **\*\*\*** | 1.030 | 1.014 | 1.046 |
| **RDW-SD (fL)** | 0.063 | 0.019 | 11.516 | 1 | \*\* | 1.066 | 1.027 | 1.105 |
|  | **For Sore throat\*** |
| Constant | -5.516 | 0.892 | 38.223 | 1 | **\*\*\*** | 0.004 |  |  |
| age  | 0.032 | 0.010 | 9.740 | 1 | **\*\*** | 1.032 | 1.012 | 1.053 |
| **RDW-SD (fL)** | 0.049 | 0.019 | 6.364 | 1 | 0.01\* | 1.050 | 1.011 | 1.091 |
|  | **For Headache\*** |
| Constant | -5.686 | 0.861 | 43.573 | 1 | **\*\*\*** | 0.003 |  |  |
| age  | 0.031 | 0.009 | 11.430 | 1 | **\*\*** | 1.032 | 1.013 | 1.050 |
| **RDW-SD (fL)** | 0.064 | 0.019 | 11.185 | 1 | **\*\*** | 1.066 | 1.027 | 1.107 |
|

|  |  |
| --- | --- |
|  | **For Diarrhoea** |
| **Predictor** | **β** | **SEβ** | **Wald’s****χ2** | **df** | **p** | **eβ****(odds ratio)** | ***95.0% C.I.for* eβ** |
| Lower | Upper |
| Constant | -1.586 | 1.375 | 1.332 | 1 | 0.24 | 0.205 |  |  |
| age  | -0.024 | 0.015 | 2.423 | 1 | 0.12 | 0.977 | 0.948 | 1.006 |
| **RDW-SD (fL)** | 0.002 | 0.034 | 0.003 | 1 | 0.95 | 1.002 | 0.937 | 1.072 |

 |
|  | **For Survival status**\*\*\* |
| **Predictor** | **β** | **SEβ** | **Wald’s****χ2** | **df** | **p** | **eβ****(odds ratio)** | ***95.0% C.I.for* eβ** |
| Lower | Upper |
| Constant | -9.234 | 1.231 | 56.299 | 1 | **\*\*\*** | 0.0001 |  |  |
| age  | 0.037 | 0.012 | 8.937 | 1 | **\*\*** | 1.037 | 1.013 | 1.063 |
| **RDW-SD (fL)** | 0.117 | 0.024 | 24.203 | 1 | **\*\*\*** | 1.124 | 1.073 | 1.178 |
|  | **For Severity of Disease (severe: 1; non-severe: 0)** \*\*\* |
| Constant | -9.753 | 1.177 | 68.665 | 1 | **\*\*\*** | 0.0001 |  |  |
| age  | 0.027 | 0.009 | 8.497 | 1 | **\*\*** | 1.028 | 1.009 | 1.046 |
| **RDW-SD (fL)** | 0.179 | 0.027 | 42.964 | 1 | **\*\*\*** | 1.195 | 1.133 | 1.261 |
|  | **For Basic disease\*** |
| Constant | -0.883 | 0.708 | 1.559 | 1 | 0.21 | 0.413 |  |  |
| age  | -0.003 | 0.007 | 0.185 | 1 | 0.66 | 0.997 | 0.983 | 1.011 |
| **RDW-SD (fL)** | 0.038 | 0.018 | 4.294 | 1 | 0.03\* | 1.038 | 1.002 | 1.076 |
| \*\*\* P-Value < 0.001\*\* P-Value < 0.01**Table S2**. Multivariate logistic Regression Analysis of 331 COVID-19 patients for outcomes (categorical variables) based on **RDW-CV (%)** and Age. |
|  | **For Survival status** |
| **Predictor** | **β** | **SEβ** | **Wald’s****χ2** | **df** | **p** | **eβ****(odds ratio)** | ***95.0% C.I.for* eβ** |
| Lower | Upper |
| Constant | -6.619 | 1.059 | 39.095 | 1 | **\*\*\*** | 0.001 |  |  |
| age  | 0.052 | 0.012 | 19.151 | 1 | **\*\*\*** | 1.053 | 1.029 | 1.078 |
| **RDW-CV (%)** | 0.104 | 0.051 | 4.230 | 1 | 0.04  | 1.110 | 1.005 | 1.225 |
|  | **For Severity of Disease (severe: 1; non-severe: 0)** |
| Constant | -4.605 | 0.805 | 32.690 | 1 | **\*\*\*** | 0.010 |  |  |
| age  | 0.042 | 0.008 | 25.549 | 1 | **\*\*\*** | 1.043 | 1.026 | 1.061 |
| **RDW-CV (%)** | 0.092 | 0.048 | 3.695 | 1 | 0.05 | 1.096 | 0.998 | 1.204 |

\*\*\* P-Value < 0.001

\*\* P-Value < 0.01