**Supplementary Table 1. Multivariate logistic regression between demographic characteristics and complications with LD among COVID-19 patients**

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| **Parameters** | **Cholestasis** | | | | **Hypoproteinemia** | | | | **Hepatocellular injury** | | | |
| **β** | **Wald** | *p* | **OR (95% Cl)** | **β** | **Wald** | *p* | **OR (95% Cl)** | **β** | **Wald** | ***p*** | **OR (95% Cl)** |
| Male | 1.059 | 19.949 | <0.001 | 2.884 (1.812, 4.591) | -0.300 | 1.429 | 0.232 | 0.741 (0.453, 1.212) | 1.398 | 26.082 | 0.001 | 4.047 (2.367, 6.921) |
| Diabetes | 0.546 | 4.049 | 0.044 | 1.727 (1.014, 2.941) | 0.604 | 3.969 | 0.046 | 1.829 (1.010, 3.312) | 0.222 | 0.556 | 0.456 | 1.248 (0.697, 2.237) |
| Hypertension | 0.220 | 0.631 | 0.427 | 1.246 (0.724, 2.146) | 0.518 | 2.727 | 0.099 | 1.679 (0.908, 3.105) | 0.489 | 2.660 | 0.103 | 1.631 (0.906, 2.936) |
| Hepatic diseases | -0.904 | 2.147 | 0.143 | 0.405 (0.121, 1.357) | 0.707 | 1.047 | 0.306 | 2.028 (0.523, 7.861) | 0.771 | 1.878 | 0.171 | 2.161 (0.718,6.506) |
| Lymphopenia | 0.694 | 8.077 | 0.004 | 2.003 (1.241, 3.233) | 1.169 | 21.745 | 0.001 | 3.218 (1.969, 5.260) | 0.829 | 8.896 | 0.003 | 2.292 (1.329, 3.953) |
| Age <60 | -0.523 | 4.181 | 0.041 | 1.593 (1.359, 1.979) | 1.319 | 19.365 | 0.001 | 3.739 (2.078, 6.727) | -0.343 | 1.518 | 0.218 | 0.710 (0.411, 1.225) |