**Supplement1.** Univariate and Multivariate Poisson regression analysis for total exacerbation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Univariate model |  |  | Multivariate model |  |
|  | IRR(95%CI) | *P*-value | IRR(95%CI) | *P*-value |
| **Gender****Female** **Male** **Age****Smoking Index****BMI****SGRQ scores****GOLD stage****GOLD 1****GOLD 2** **GOLD 3****GOLD 4****COPD years****PLR****SII****SIRI****PLT/MPV****PLT/RDW** | Reference3.0290(1.3748-2.9945)1.0054(0.9970-1.0177)1.0054(1.0028-1.0081)1.0006(0.9780-1.0237)1.0244(1.0200-1.0289)Reference1.6500(1.0082-2.700)3.1066(1.9689-4.9019)4.6026(2.8542-7.4220)1.0299(1.0536-1.1924)1.0038(1.0024-1.0052)1.0005(1.0003-1.0007)1.1091(1.0382-1.1849)0.8179(0.7367-0.8940)1.0759(1.0202-1.1346) | ----<0.050.166<0.050.961<0.05----0.046<0.05<0.05<0.05<0.05<0.050.002<0.050.007 | Reference2.6035(1.5403-4.003)NA1.0009(0.9979-1.0040)NA1.0124(1.0066-1.0181)Reference 1.1138(0.6480-1.9143)1.7122(1.0225-2.8671)2.3485(1.3676-4.0330)1.0196(1.0071-1.0321) 1.0011(1.0042-1.0843)  1.0007(1.0002-1.0012)1.1856(0.7243-0.9157)0.8763(0.7843-0.9614) 1.0954(1.0193-1.17772) | ----<0.05NA0.543NA<0.05----0.6970.0410.0020.0020.4740.0100.0010.0040.013 |

**Supplement 2.** Graph shows the results of ROC curves analysis for total exacerbation among stable patients. Predictors concluded gender, COPD years, SGRQ scores.

