**Table S1:** Analysis data of C-index

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Data set | events | samplesize | FollowTime | Model | c-index | SE | low | up |
| Zhaoyu Wu2022(DT) | Traning set | 99 | 240 | 6m | DT | 0.722  | 0.030  | 0.591  | 0.854  |
| Tao Yu2022(GBDT) | Traning set | 92 | 555 | 24m | GBDT | 0.770  | 0.026  | 0.740  | 0.800  |
| Zhaoyu Wu2022(LR) | Traning set | 99 | 240 | 6m | LR | 0.814  | 0.026  | 0.699  | 0.928  |
| Jiantao Zhang2022(LR) | Traning set | 76 | 540 | 24m | LR | 0.825  | 0.026  | 0.774  | 0.877  |
| Tao Yu2022(LR) | Traning set | 92 | 555 | 24m | LR | 0.730  | 0.028  | 0.700  | 0.760  |
| Hao Huang2018(LR) | Traning set | 51 | 156  | 24m | LR | 0.825  | 0.034  | 0.747  | 0.903  |
| Peng Qiu2021(LR) | Traning set | 84 | 210 | 6m | LR | 0.713  | 0.033  | 0.648  | 0.778  |
| Anat Rabinovich2020(LR) | Traning set | 157 | 336 | 24m | LR | 0.700  | 0.025  | 0.640  | 0.770  |
| Elham E. Amin2018(LR) | Traning set | 236 | 451 | 24m | LR | 0.730  | 0.020  | 0.670  | 0.780  |
| Elham E. Amin2018(LR) | Traning set | 236 | 301 | 24m | LR | 0.620  | 0.024  | 0.550  | 0.680  |
| Zhaoyu Wu2022(RF) | Traning set | 99 | 240 | 6m | RF | 0.891  | 0.020  | 0.816  | 0.977  |
| Tao Yu2022(RF) | Traning set | 92 | 555 | 24m | RF | 0.810  | 0.024  | 0.780  | 0.840  |
| Zhaoyu Wu2022(XGBoost) | Traning set | 99 | 240 | 6m | XGBoost | 0.881  | 0.021  | 0.794  | 0.968  |
| Tao Yu2022(XGBoost) | Traning set | 92 | 555 | 24m | XGBoost | 0.770  | 0.026  | 0.740  | 0.800  |
| Tao Yu2022(GBDT) | Validation set | 17 | 117 | 24m | GBDT | 0.800  | 0.058  | 0.730  | 0.860  |
| Jiantao Zhang2022(LR) | Validation set | 40 | 268 | 24m | LR | 0.773  | 0.040  | 0.699  | 0.848  |
| Tao Yu2022(LR) | Validation set | 17 | 117 | 24m | LR | 0.830  | 0.054  | 0.760  | 0.890  |
| Hao Huang2018(LR) | Validation set | 45  | 135  | 24m | LR | 0.825  | 0.036  | 0.747  | 0.903  |
| Elham E. Amin2018(LR) | Validation set | 476 | 1107 | 24m | LR | 0.660  | 0.015  | 0.630  | 0.700  |
| Elham E. Amin2018(LR) | Validation set | 476 | 1107 | 24m | LR | 0.640  | 0.015  | 0.600  | 0.690  |
| A.Rabinovich2021(LR) | Validation set | 328  | 691  | 24m | LR | 0.630  | 0.019  | 0.590  | 0.670  |
| P. Prandoni2021(LR) | Validation set | 604  | 2349  | 36m | LR | 0.740  | 0.011  | 0.720  | 0.770  |
| Tao Yu2022(RF) | Validation set | 17 | 117 | 24m | RF | 0.760  | 0.062  | 0.660  | 0.840  |
| Tao Yu2022(XGBoost) | Validation set | 17 | 117 | 24m | XGBoost | 0.800  | 0.058  | 0.730  | 0.860  |

**Table S2:** Analysis data of Diagnostic Four Grid Table

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | events | samplesize | Follow time | Model | Sensitivity | Specificit | tp | fp | fn | tn |
| Zhaoyu Wu2022(LR) | 99 | 240 | 6m | LR | 0.7365  | 0.6952  | 73  | 43  | 26  | 98  |
| Zhaoyu Wu2022(RF) | 99 | 240 | 6m | RF | 0.7740  | 0.8204  | 77  | 25  | 22  | 116  |
| Zhaoyu Wu2022(XGBoost) | 99 | 240 | 6m | XGBoost | 0.8473  | 0.7268  | 84  | 39  | 15  | 102  |
| Zhaoyu Wu2022(DT) | 99 | 240 | 6m | DT | 0.6330  | 0.8178  | 63  | 26  | 36  | 115  |
| Jiantao Zhang2022(LR) | 76 | 540 | 24m | LR | 0.7890  | 0.7090  | 60  | 135  | 16  | 329  |
| Tao Yu2022(LR) | 92 | 555 | 24m | LR | 0.6728  | 0.6214  | 62  | 175  | 30  | 288  |
| Tao Yu2022(RF) | 92 | 555 | 24m | RF | 0.7570  | 0.7019  | 70  | 138  | 22  | 325  |
| Tao Yu2022(XGBoost) | 92 | 555 | 24m | XGBoost | 0.6221  | 0.7740  | 57  | 105  | 35  | 358  |
| Tao Yu2022(GBDT) | 92 | 555 | 24m | GBDT | 0.7443  | 0.6475  | 68  | 163  | 24  | 300  |
| Peng Qiu2021(LR) | 84 | 210 | 6m | LR | 0.6190  | 0.7710  | 52  | 29  | 32  | 97  |
| Anat Rabinovich2020(LR) | 157 | 336 | 24m | LR | 0.1354  | 0.9118  | 21  | 16  | 136  | 163  |
| Elham E. Amin2018(LR) | 236 | 451 | 24m | LR | 0.6800  | 0.7160  | 160  | 61  | 76  | 154  |
| Elham E. Amin2018(LR) | 236 | 301 | 24m | LR | 0.9420  | 0.1800  | 222  | 53  | 14  | 12  |
| Jiantao Zhang2022(LR) | 40 | 268 | 24m | LR | 0.7250  | 0.6840  | 29  | 72  | 11  | 156  |
| Tao Yu2022(LR) | 17 | 117 | 24m | LR | 0.7533  | 0.7374  | 13  | 26  | 4  | 74  |
| Tao Yu2022(RF) | 17 | 117 | 24m | RF | 0.7316  | 0.7472  | 12  | 25  | 5  | 75  |
| Tao Yu2022(XGBoost) | 17 | 117 | 24m | XGBoost | 0.7873  | 0.6503  | 13  | 35  | 4  | 65  |
| Tao Yu2022(GBDT) | 17 | 117 | 24m | GBDT | 0.7914  | 0.6584  | 13  | 34  | 4  | 66  |
| P. Prandoni2021(LR) | 604  | 2349  | 36m | LR | 0.6600  | 0.7800  | 399  | 384  | 205  | 1361  |