**Table 3** The R packages used for statistical analysis

| R package   | statistical analysis                                      |
|-------------|----------------------------------------------------------|
| glmnet      | LASSO Cox regression                                     |
| Survival;   | multivariable Cox regression analysis; log-rank test     |
| survminer   |                                                          |
| timeROC     | time-dependent ROC curve analysis                         |
| ggplot2     | Kaplan-Meier                                             |
| rms         | nomogram construction and calibration                    |

*LASSO* least absolute shrinkage and selection operator, *ROC* receiver operating characteristic

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