Supplementary table 1：Model development of risk point

| **Effect** |  | **Score** |
| --- | --- | --- |
| Hemoglobin（g/L） | >120 | 63 |
| Hemoglobin（g/L） | ≤120 | 0 |
| NCT regimens | TEC | 0 |
| NCT regimens | TCbH | 87 |
| Ki67 | >60 | 100 |
| Ki67 | ≤60 | 0 |
| LVI | Absent | 85 |
| LVI | Present | 0 |
| Estrogen receptor | Negative | 79 |
| Estrogen receptor | Positive | 0 |

|  |  |
| --- | --- |
| Total Points | Probability of pCR |
| 111 | 0.05 |
| 166 | 0.10 |
| 226 | 0.20 |
| 266 | 0.30 |
| 298 | 0.40 |
| 328 | 0.50 |
| 358 | 0.60 |
| 391 | 0.70 |
| 430 | 0.80 |

Abbreviations: NCT: Neoadjuvant chemotherapy; LVI: lymphovascular invasion

Supplementary table 2: Predictive values and sensitivity, specificity of the predicted probability at different cutoff values.

| **Predicted Probability** | **Sensitivity (%)** | **Specificity (%)** | **ppv(%)** | **npv(%)** | **index** |
| --- | --- | --- | --- | --- | --- |
| 0.100 | 93.3 | 34.2 | 34.7 | 93.2 | 27.5 |
| 0.108 | 93.3 | 35.0 | 35.0 | 93.3 | 28.3 |
| 0.117 | 93.3 | 39.2 | 36.5 | 94.0 | 32.5 |
| 0.126 | 93.3 | 40.8 | 37.2 | 94.2 | 34.2 |
| 0.204 | 91.1 | 42.5 | 37.3 | 92.7 | 33.6 |
| 0.208 | 82.2 | 53.3 | 39.8 | 88.9 | 35.6 |
| 0.223 | 80.0 | 57.5 | 41.4 | 88.5 | 37.5 |
| 0.238 | 73.3 | 65.8 | 44.6 | 86.8 | 39.2 |
| 0.254 | 66.7 | 68.3 | 44.1 | 84.5 | 35.0 |
| 0.262 | 66.7 | 69.2 | 44.8 | 84.7 | 35.8 |
| 0.296 | 62.2 | 73.3 | 46.7 | 83.8 | 35.6 |
| 0.320 | 62.2 | 77.5 | 50.9 | 84.5 | 39.7 |
| 0.456 | 60.0 | 78.3 | 50.9 | 83.9 | 38.3 |
| 0.499 | 33.3 | 90.8 | 57.7 | 78.4 | 24.2 |
| 0.505 | 20.0 | 98.3 | 81.8 | 76.6 | 18.3 |
| 0.526 | 20.0 | 99.2 | 90.0 | 76.8 | 19.2 |
| 0.765 | 20.0 | 100.0 | 100.0 | 76.9 | 20.0 |

Abbreviations: PPV: positive predictive value；NPV: negative predictive value

Supplementary table 3：The diagnostic odds ratio (DOR) of the nomogram at different cutoff values.

| **Predicted Probability** | **DOR (95% CI)** |
| --- | --- |
| ≥0.1 | 7.266(2.123-24.872) |
| ≥0.2 | 7.576(2.551-22.502) |
| ≥0.3 | 5.673(2.708-11.884) |
| ≥0.4 | 5.423(2.593-11.341) |
| ≥0.5 | 14.750(3.047-71.396) |



Supplementary table 4: Predictive values and sensitivity, specificity of the predicted probability at the optimal cutoff value.

|  | **The Optimal Cutoff** | **Sensitivity (%)** | **Specificity (%)** | **ppv(%)** | **npv(%)** |
| --- | --- | --- | --- | --- | --- |
|  | 0.32 | 62.2 | 77.5 | 50.9 | 84.5 |

Abbreviations: PPV: positive predictive value；NPV: negative predictive value