**Supplementary Table 2. Results of Univariate Analysis of MRI Features for Disease-Free Survival**

| Characteristics            | Pre-CRT MRI |                      |                      |                      | Post-CRT MRI |                      |                      |                      |
|----------------------------|-------------|-----------------------|----------------------|----------------------|-------------|-----------------------|----------------------|----------------------|
|                            | Number      | HR                    | 95% CI               | P                    | Number      | HR                    | 95% CI               | P                    |
| T category                 |             |                       |                      |                      |             |                       |                      |                      |
| Good                       | 75          | 1.465                 | 0.681–3.154          | 0.329                | 166         | 2.148                 | 1.161–3.973          | 0.015                |
| Poor                       | 246         |                       |                      |                      | 155         |                       |                      |                      |
| N category                 |             |                       |                      |                      |             |                       |                      |                      |
| Negative                   | 58          | 1.719                 | 0.678–4.362          | 0.254                | 240         | 2.501                 | 1.369–4.569          | 0.003                |
| Positive                   | 263         |                       |                      |                      | 81          |                       |                      |                      |
| Extramesorectal LN         |             |                       |                      |                      |             |                       |                      |                      |
| Negative                   | 234         | 1.658                 | 0.897–3.066          | 1.658                | 285         | 3.273                 | 1.650–6.491          | 0.001                |
| Positive                   | 87          |                       |                      |                      | 36          |                       |                      |                      |
| EMVI                       |             |                       |                      |                      |             |                       |                      |                      |
| Negative                   | 279         | 3.120                 | 1.605–6.068          | 0.001                | 294         | 5.879                 | 2.947–11.727         | < 0.001              |
| Positive                   | 42          |                       |                      |                      | 27          |                       |                      |                      |
| EMD (mm)                   | Mean, SD    | 4.74, 5.11            | 1.033                | 0.986–1.082          | 0.177       | 2.38, 3.39            | 1.111                | 1.045–1.181          | 0.001                |
| MRF (mm)                   | Mean, SD    | 5.66, 5.38            | 0.962                | 0.904–1.024          | 0.226       | 6.54, 5.93            | 0.992                | 0.940–1.046          | 0.761                |
| mrTRG                      |             |                       |                      |                      |             |                       |                      |                      |
| 5-point grading            | 7.974       |                      | 1.445–44.015         | 0.039                |             |                       |                      |                      |
| Binomial classification    | 1.917       |                      | 1.044–3.522          | 0.036                |             |                       |                      |                      |

Tumors are graded into two groups (good and poor responders) according to ypT category. ypT1, T2, T3a are classified as good responders and ypT3b, T3c, T3d, and T4 as poor responders.