Adult patients (aged ≥ 18 years) underwent R0 resection and D2 lymphadenectomy for stage II/III gastric cancer from November 2010 to December 2017 (n = 1721)

Exclusion (n = 433):
1) Neoadjuvant chemotherapy (n = 148)
2) Other synchronous malignancies (n = 26)
3) Active infections disease (n = 14)
4) Early recurrence or death within 6 months after surgery (n = 97)
5) Receiving S-1 alone for AC (n = 54)
6) Missing clinical, laboratory, pathological and/or follow-up data (n = 94)

Included (n = 1288)

| 0 cycle AC (n = 293) | 1-3 cycles AC (n = 344) | 4-5 cycles AC (n = 245) | 6-7 cycles AC (n = 293) | ≥ 8 cycles AC (n = 113) |

Incomplete AC group (n = 882)
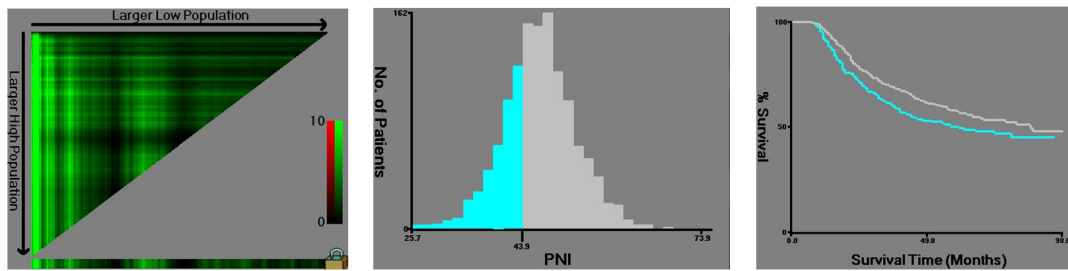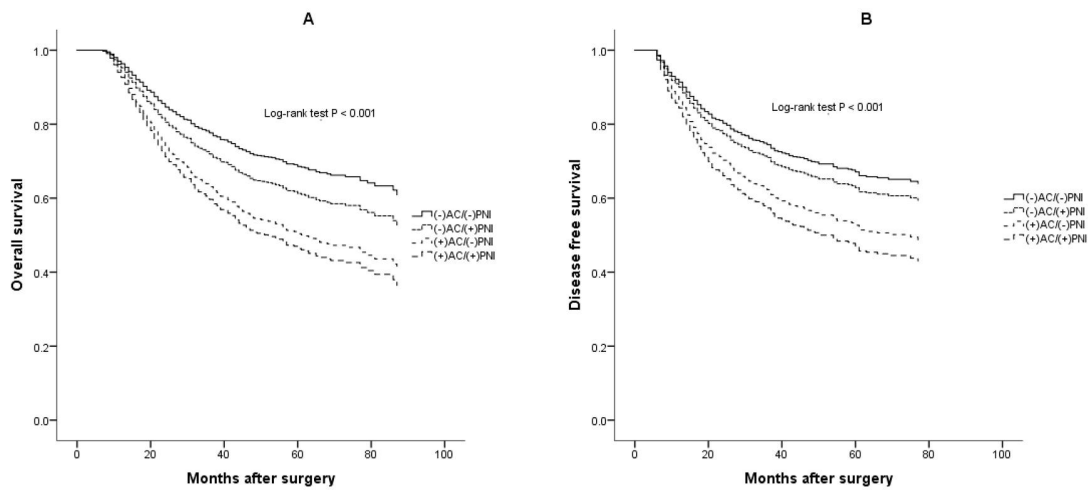
Complete AC group (n = 406)

AC, adjuvant chemotherapy

Supplementary Figure 1. Flow diagram.

Supplementary Figure 2. X-tile analysis of cancer-specific survival performed using patients' data to determine the optimal cut-off value for the prognostic nutritional index (PNI). In the left panels, the X-axis represents all potential cut-off values from low to high (left to right) that define a low subset, whereas the Y-axis represents the cut-off values from high to low (top to bottom) that define a high subset. Red coloration of a cut-off value indicates an inverse correlation with time to gastric cancer-specific death, and the green coloration represents direct associations. The optimal cut-off value determined by the left panels is shown in the histogram of the entire cohort (middle panels). Kaplan-Meier plots are displayed in the right panels, where blue represents the low subgroup and gray represents the high subgroup. The optimal cut-off values for PNI was 43.9, with maximum χ^2 log-rank value of 8.1929.

Supplementary Figure 3. Survival curves in 1,288 patients who underwent curative resection for stage II/III gastric cancer stratified by the prognostic nutritional index (PNI) and completeness of planed adjuvant chemotherapy (AC). A) Overall survival (OS); B) Disease free survival (DFS). (+) defined as receiving less than 6 cycles of AC or PNI < 43.9, (-) defined as at least 6 cycles of AC or PNI ≥ 43.9.