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| **Table S1.** Demographic and Clinicopathologic Variables of Adjuvant Chemotherapy and Non- Adjuvant Chemotherapy Cohorts in FJUUH |
| **Variable** | Adjuvant Chemotherapy Cohort**（**n=137**）** | Non-Adjuvant Chemotherapy Cohort**（**104**）** |  |
| No. of Patients | % | No. of Patients | % | χ2test P |
| **Sex** |  |  |  |  | .628  |
|  Male  | 111 | 81.0 | 81 | 77.9 |  |
|  Female | 26 | 19.0 | 23 | 22.1 |  |
| **Age,y** |  |  |  |  | .003  |
|  ≤65 | 97 | 70.8 | 54 | 51.9 |  |
|  >65 | 40 | 29.2 | 50 | 48.1 |  |
| **BMI,kg/m2** |  |  |  |  | .340  |
|  ≤25 | 21 | 15.3 | 11 | 10.6 |  |
|  >25 | 116 | 84.7 | 93 | 89.4 |  |
| **ASA scores** |  |  |  |  | .281 |
| 1 | 90 | 65.7 | 62 | 59.6 |  |
| 2 | 43 | 31.4 | 34 | 32.7 |  |
| 3 | 4 | 2.9 | 7 | 6.7 |  |
| 4 | 0 | 0 | 1 | 1.0 |  |
| **AJCC stage** |  |  |  |  | .084 |
|  T1N2M0 | 23 | 16.8 | 9 | 8.7 |  |
|  T3N0M0 | 114 | 83.2 | 95 | 91.3 |  |
| **Histology** |  |  |  |  | .960 |
| adenocarcinoma | 111 | 81.0 | 84 | 80.8 |  |
| Non-Adenocarcinoma | 26 | 19.0 | 20 | 19.2 |  |
| **Anastomosis method** |  |  |  |  | .846 |
|  Billroth-I | 46 | 33.6 | 36 | 34.6 |  |
|  Billroth-II | 7 | 5.1 | 7 | 6.7 |  |
|  Roux-en-Y | 84 | 61.3 | 61 | 58.7 |  |
| **Esophagus Invasion** |  |  |  |  | .081 |
| Yes | 4 | 2.9 | 9 | 8.7 |  |
|  No | 133 | 97.1 | 95 | 91.3 |  |
| **Duodenum Invasion** |  |  |  |  | .432 |
|  Yes | 0 | 0 | 1 | 1.0 |  |
|  No | 137 | 100 | 103 | 99.0 |  |
| **Operation Time,min** |  |  |  |  | .678 |
|  ≤187 | 94 | 68.6 | 68 | 65.4 |  |
|  >187 | 43 | 31.4 | 36 | 34.6 |  |
| **Bleeding Loss,ml** |  |  |  |  | .094 |
|  ≤90 | 100 | 73.0 | 65 | 62.5 |  |
|  >90 | 37 | 27.0 | 39 | 37.5 |  |
| **LN dissection number** |  |  |  |  | .623 |
|  ≤15 | 4 | 2.9 | 2 | 1.9 |  |
|  >15 | 133 | 97.1 | 102 | 98.1 |  |
| **Size,mm** |  |  |  |  | .315 |
|  ＜20 | 28 | 20.4 | 16 | 15.4 |  |
|  ≥20 | 109 | 79.6 | 88 | 84.6 |  |
| **Primary Site** |  |  |  |  | .321 |
|  Proximal third | 44 | 32.1 | 43 | 41.3 |  |
|  Mid  | 28 | 20.4 | 17 | 16.3 |  |
|  Distal third | 65 | 47.4 | 44 | 42.3 |  |
| **Follow-up,month** |  |  |  |  |  |
| Median | 46 | 53 |  |
| Range | 11-105 | 3-119 |  |

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| **Table S2.** Demographic and Clinicopathologic Variables of Adjuvant Chemotherapy and Non- Adjuvant Chemotherapy Cohorts in Italy IMIGASTRIC Center |
| **Variable** | Adjuvant Chemotherapy Cohort**（**n=22**）** | Non-Adjuvant Chemotherapy Cohort**（**23**）** |  |
| No. of Patients | % | No. of Patients | % | χ2test P |
| **Sex** |  |  |  |  | .491 |
|  Male  | 16 | 27.3 | 19 | 82.6 |  |
|  Female | 6 | 72.7 | 4 | 17.4 |  |
| **Age,y** |  |  |  |  | .763 |
|  ≤65 | 9 | 40.9 | 8 | 34.8 |  |
|  >65 | 13 | 59.1 | 15 | 65.2 |  |
| **BMI,kg/m2** |  |  |  |  | .353 |
|  ≤25 | 16 | 72.7 | 13 | 56.5 |  |
|  >25 | 6 | 27.3 | 10 | 43.5 |  |
| **ASA scores** |  |  |  |  | .044 |
| 1 | 6 | 27.3 | 7 | 30.4 |  |
| 2 | 13 | 59.1 | 6 | 26.1 |  |
| 3 | 3 | 13.6 | 10 | 43.5 |  |
| **AJCC stage** |  |  |  |  | .187 |
|  T1N2M0 | 4 | 18.2 | 1 | 4.3 |  |
|  T3N0M0 | 18 | 81.8 | 22 | 95.7 |  |
| **Histology** |  |  |  |  | .489 |
| adenocarcinoma | 22 | 100 | 21 | 91.3 |  |
| Non-Adenocarcinoma | 0 | 0 | 2 | 8.7 |  |
| **Anastomosis method** |  |  |  |  | .260 |
|  Billroth II gastrojejunostomy | 6 | 27.3 | 4 | 27.3 |  |
|  Jeiunal interposition | 0 | 0 | 3 | 13.0 |  |
| Roux-en-Y esophagojejunostomy | 7 | 31.8 | 10 | 43.5 |  |
|  Roux-en-Y gastrojejunostomy | 9 | 40.9 | 6 | 26.1 |  |
| **Approach** |  |  |  |  | .007 |
| Open | 8 | 36.4 | 18 | 78.3 |  |
|  Laparoscopic | 1 | 4.5 | 1 | 4.3 |  |
|  Robotic | 13 | 59.1 | 4 | 17.4 |  |
| **Operation Time,min** |  |  |  |  | .023 |
|  ≤187 | 3 | 13.6 | 11 | 47.8 |  |
|  >187 | 19 | 86.4 | 12 | 52.2 |  |
| **Bleeding Loss,ml** |  |  |  |  | 1.000 |
|  ≤90 | 0 | 0 | 1 | 4.3 |  |
|  >90 | 22 | 100 | 22 | 95.7 |  |
| **LN dissection number** |  |  |  |  | .489 |
|  ≤15 | 0 | 0 | 2 | 8.7 |  |
|  >15 | 22 | 100 | 21 | 91.3 |  |
| **Size,mm** |  |  |  |  | 1.000 |
|  ＜20 | 4 | 18.2 | 4 | 17.4 |  |
|  ≥20 | 18 | 81.8 | 19 | 82.6 |  |
| **Primary Site** |  |  |  |  | .495 |
|  Proximal third | 4 | 18.2 | 8 | 34.8 |  |
|  Mid  | 6 | 27.3 | 4 | 17.4 |  |
|  Distal third | 12 | 54.5 | 11 | 47.8 |  |
| **Follow-up,month** |  |  |  |  |  |
| Median | 36 | 42 |  |
| Range | 1-142 | 0-161 |  |

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| **Table S3**. Univariate and Multivariate Cox Regression Model for Prediction of Overall Survival in SEER Adjuvant Chemotherapy Cohort |
|  | **Univariate Model** | **Full Multivariate Model** |
| **Variable** | **OR** | **95%CI** | **P** | **OR** | **95%CI** | **P** |
| **Sex** |  |  |  |  |  |  |  |  |  |  |
|  Female | Ref |  |  |  |  | Ref |  |  |  |  |
|  Male | .948 | .645 | - | 1.394 | .788 | .983 | .657 | - | 1.473 | .935 |
| **Age y** |  |  |  |  |  |  |  |  |  |  |
|  ≤65 | Ref |  |  |  |  | Ref |  |  |  |  |
|  >65 | 1.695 | 1.170 | - | 2.454 | .005 | 1.820 | 1.243 | - | 2.666 | .002 |
| **AJCC** |  |  |  |  |  |  |  |  |  |  |
|  T1N2 | Ref |  |  |  |  | Ref |  |  |  |  |
|  T3N0 | 0.560 | .359 | - | .871 | .010 | .556 | .353 | - | .874 | .011 |
| **LNs dissection,No.**≤15＞15 |  |  |  |  |  |  |  |  |  |  |
| Ref0.602 |  |  .008 | Ref0.660 |  .443 |   |   |   |
| .414 | - | .875 | - | .983 | .041 |
| **Size mm** |  |  |  |  |  |  |  |  |  |  |
| ＞20 | Ref |  |  |  |  | Ref |  |  |  |  |
| ≤20 | .527 | .325 | - | .855 | .009 | .596 | .352 | - | .977 | .040 |
| **Intestinal type** |  |  |  |  |  |  |  |  |  | .107 |
|  No | Ref |  |  |  |  | Ref |  |  |  |  |
| Yes | .644 | .336 | - | 1.234 | .185 | .728 | .434 | - | 1.792 | .882 |
| **Primary Site** |  |  |  |  |  |  |  |  |  |  |
|  Upper third  | Ref |  |  |  |  | Ref |  |  |  |  |
|  Middle | .887 | .484 | - | 1.627 | .699 | 1.065 | .570 | - | 1.991 | .844 |
|  Lower third | 1.180 | .802 | - | 1.736 | .401 | 1.453 | .961 | - | 2.197 | .077 |
| **Grade** |  |  |  |  |  |  |  |  |  |  |
| Well differentiated | Ref |  |  |  |  | Ref |  |  |  |  |
| Moderately differentiated | 7369 | .000 | - | - | .884 | 7201 | .000 | - | - | .888 |
| Poorly differentiated | 8965 | .000 |  | - | .882 | 8387 | .000 |  | - | .886 |
| Undifferentiated | 9241 | .000 | - | - | .881 | 9932 | .000 | - | - | .884 |
| **Histology adenocarcinoma** |  |  |  |  |  |  |  |  |  |  |
| Non- adenocarcinoma | Ref |  |  |  |  | Ref |  |  |  |  |
| Adenocarcinoma | .595 | .401 | - | .883 | .010 | .610 | .395 | - | .942 | .026 |