Supplementary Table 1: Baseline tumor characteristics of male patients compared to female patients ≤55 years

| Characteristics | ESOPHAGEAL CANCER | GASTRIC CANCER |
|-----------------|-------------------|---------------|
|                 | Male n = 2387 | Female n = 75 | Male n = 1304 | Female n = 146 |
|                 | n  | %  | n  | %  | n  | %  | n  | %  |
| cT stage       |     |     |     |     |     |     |     |     |
| Tis            | 9  | 0.4 | -  | -  | 7  | 0.7 | -  | -  |
| T1             | 115 | 5.1 | 5  | 6.9 | 76 | 8.0 | 13 | 12.7 |
| T2             | 445 | 19.6 | 19 | 26.4 | 252 | 26.6 | 20 | 19.6 |
| T3             | 1644 | 72.2 | 46 | 63.9 | 541 | 57.0 | 62 | 60.8 |
| T4             | 63  | 2.8 | 2  | 2.8 | 73  | 7.7 | 7  | 6.9 |
| cN stage       |     |     |     |     |     |     |     |     |
| N0             | 829 | 36.0 | 32 | 43.8 | 648 | 58.1 | 73 | 59.8 |
| N+             | 1472 | 64.0 | 41 | 56.2 | 467 | 41.9 | 49 | 40.2 |
| Differentiation|     |     |     |     |     |     |     |     |
| Good           | 866 | 55.2 | 25 | 54.3 | 437 | 43.5 | 17 | 15.7 |
| Poor           | 704 | 44.8 | 21 | 45.7 | 567 | 56.5 | 91 | 84.3 |
| Histological subtype |     |     |     |     |     |     |     |     |
| Intestinal     | 788 | 81.2 | 21 | 84.0 | 515 | 57.7 | 23 | 22.5 |
| Diffuse        | 116 | 12.0 | 3  | 12.0 | 311 | 34.9 | 74 | 72.5 |
| Mixed          | 66  | 6.8 | 1  | 4.0 | 66  | 7.4 | 5  | 4.9 |
| Clinical tumor location |     |     |     |     |     |     |     |     |
| Proximal       | 6   | 0.3 | 1  | 1.3 | 136 | 10.9 | 10 | 7.2 |
| Middle         | 81  | 3.4 | 4  | 5.3 | 389 | 31.2 | 40 | 29.0 |
| Distal         | 1527 | 64.4 | 44 | 58.7 | 468 | 37.5 | 54 | 39.1 |
| GEJ            | 757 | 31.9 | 26 | 34.7 | 104 | 8.3 | 16 | 11.6 |
| Fundus         |     |     |     |     |     |     |     |     |
| Entire stomach |     |     |     |     |     |     |     |     |
| Gastric remnant|     |     |     |     |     |     |     |     |

Percentages for the variables are calculated out of the total number of actual results available, excluding the missing values. Percentages may not add up to 100% due to rounding. cN clinical N stage, cT clinical T stage, GEJ gastro-esophageal junction.
### Supplementary Table 2: Baseline tumor characteristics of male patients compared to female patients >55 years

| Characteristics | ESOPHAGEAL CANCER | GASTRIC CANCER |
|-----------------|-------------------|----------------|
|                 | Male >55 years    | Female >55 years |
|                 | n = 2387          | n = 75          |
|                 | Male >55 years    | Female >55 years |
|                 | n = 1304          | n = 146         |
| **cT stage**    |                   |                 |
| **Tis**         | 9 0.4             | 7 0.7           |
| **T1**          | 115 5.1           | 76 8.0          |
| **T2**          | 445 19.6          | 252 26.6        |
| **T3**          | 1644 72.2         | 541 57.0        |
| **T4**          | 63 2.8            | 73 7.7          |
| **cN stage**    |                   |                 |
| **N0**          | 829 36.0          | 648 58.1        |
| **N+**          | 1472 64.0         | 467 41.9        |
| **Differentiation** |                 |                 |
| **Good**        | 866 55.2          | 437 43.5        |
| **Poor**        | 704 44.8          | 567 56.5        |
| **Histological subtype** |             |                 |
| **Intestinal**  | 788 81.2          | 515 57.7        |
| **Diffuse**     | 116 12.0          | 311 34.9        |
| **Mixed**       | 66 6.8            | 66 7.4          |
| **Clinical tumor location** |          |                 |
| **Proximal**    | 6 0.3             | 136 10.9        |
| **Middle**      | 81 3.4            | 389 31.2        |
| **Distal**      | 1527 64.4         | 468 37.5        |
| **GEJ**         | 757 31.9          | 192 32.3        |
| **Fundus**      |                   | 104 8.3         |
| **Corpus**      |                   | 468 37.5        |
| **Antrum**      |                   | 73 5.8          |
| **Pylorus**     |                   | 78 6.3          |
| **Entire stomach** |                   | 136 10.9        |
| **Gastric remnant** |              | 389 31.2        |

Percentages for the variables are calculated out of the total number of actual results available, excluding the missing values. Percentages may not add up to 100% due to rounding. cN clinical N stage, cT clinical T stage, GEJ gastro-esophageal junction.