**Supplementary Table 2. Early complication of both groups by Clavien-Dindo Classificationa**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Surgery** | | | **Endoscopic submucosal dissection** | | |
| **Complication** | **Before matching** | **After matching** | **Complication** | **Before matching** | **After matching** |
| **I** | Atrial fibrillation converting after correction of K+ level | 4 | 2 |  |  |  |
|  | Vocal cord paralysis (intervention not required) | 11 | 3 |  |  |  |
| **II** | Atrial fibrillation requiring medication for rate control | 3 | 2 | Pneumomediastinum treated with conservative management | 8 | 6 |
|  | Pneumonia treated with antibiotics on the ward | 4 | 2 |  |  |  |
|  | Neck incision site bleeding treated with compression and transfusion | 1 | 0 |  |  |  |
| **III a** | Vocal cord paralysis treated with injection laryngoplasty | 7 | 3 | Pneumothorax treated with chest tube insertion | 1 | 0 |
|  | Esophageal leak treated with percutaneous drainage and antibiotics | 5 | 2 | Mediastinitis treated with antibiotics  and pneumothorax treated with chest tube insertion | 1 | 1 |
|  | Chyle leak treated with embolization and radiation therapy | 1 | 0 |  |  |  |
|  | Edematous pylorus narrowing requiring balloon dilation | 1 | 1 |  |  |  |
| **III b** | Esophageal leak treated with surgical intervention under G/A | 3 | 1 |  |  |  |
|  | Infected wound treated with surgical debridement under G/A | 1 | 0 |  |  |  |
| **IV a** | Respiratory insufficiency | 1 | 0 |  |  |  |
|  | Pneumonia with respiratory insufficiency | 2 | 2 |  |  |  |
| **IV b** | Reoperation for small bowel infarction and ICU care for sepsis | 1 | 1 |  |  |  |

aIn consequence adverse events, we recorded grade of only the most severe complication. We recorded grade of each complication in independent events.

G/A, general anesthesia; ICU, intensive care unit