**Supplementary Table 1.** Clinical characters of each patient with post-endoscopic submucosal dissection bleeding in the fibrin glue group.

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| No. | Age/ Sex | Underlying diseases | Antithrombotic | Diagnosis | Tumor location | Specimen size (mm)a | Number of clipping | Time of bleeding after ESD (day) | Symptom | Hb drop(≥2.0g/dL) | 2nd look endoscopy | Hospitalization | Trans-fusion | Endoscopic treatment |
| 1 | 55/M | - | - | ADC | Middle | 50 | 1 for muscle tear | 1 | Melena | No (▼1.5) | NEb | - | - | - |
| 2 | 64/M | DM, VTE, LC | Dabigatran | HGD | Lower | 60 | 3 for muscle tear | 3 | Altered mentality | Yes (▼2.3) | Forrest IIa | 11 days | Yes |  EC, HC |
| 3 | 72/M | HTN, DM, CHD | Clopidogrel | ADC | Middle | 20 | 2 for muscle tear | 5 | Hematemesis | Yes (▼2.7) | Forrest IIb | 3 days | Yes | - |
| 4 | 79/F | HTN, DM, AF, CVD | Apixaban | ADC | Lower | 20 | 4 for hemostasis | 7 | Hematemesis | Yes (▼5.5) | Forrest IIa | 6 days | Yes | HC |
| 5 | 78/M | HTN, DM, CHD | Aspirin | HGD | Middle | 40 | - | 11 | Melena | No ( 0.0) | Forrest Ib | 4 days | No | EC |
| 6 | 62/M | CVD | Aspirin | LGD | Middle | 35 | - | 20 | Melena | No (▼1.1) |  Forrest IIb | 4 days | Yes | EC |
| 7 | 76/M | CHD | Aspirin | LGD | Lower | 60 | - | 21 | Hematemesis and melena | No (▲0.9) | Forrest Ib | 6 days | No | EC |
| 8 | 66/M | HTN | - | ADC | Lower | 80 | - | 28 | Melena | Yes (▼2.1) | Forrest Ib | 3 days | No | APC |
| 9 | 50/M | - | - | ADC | Lower | 60 | - | Within 14 | Asymptomatic | Yes (▼2.9) | NE | - | - | - |
| 10 | 84/M | HTN, CHD, AF | Apixaban/Aspirin | ADC | Lower | 20 | 1 for muscle tear | Within 15 | Asymptomatic | Yes (▼3.4) | NE | - | - | - |
| 11 | 76/M | HTN, DM | - | ADC | Lower | 50 | - | Within 15 | Asymptomatic | Yes (▼2.1) | NE | - | - | - |
| 12 | 79/M | - | - | ADC | Lower | 55 | - | Within 15 | Asymptomatic | Yes (▼2.0) | NE | - | - | - |
| 13 | 67/M | HTN, CVD | Cilostazol | LGD | Lower | 40 | 4 for muscle tear | Within 16 | Asymptomatic | Yes (▼3.3) | NE | - | - | - |
| 14 | 53/M | HTN, DL | - | ADC | Middle | 45 | - | Within 21 | Asymptomatic | Yes (▼3.8) | NE | - | - | - |
| 15 | 57/M | - | - | ADC | Lower | 45 | 1 for muscle tear | Within 22 | Asymptomatic | Yes (▼2.4) | NE | - | - | - |

M, male; F, female; HTN, hypertension; DM, diabetes mellitus; DL, dyslipidemia; CVD, cerebrovascular disease; CHD, coronary heart disease; AF, atrial fibrillation; VTE, venous thromboembolism; LGD, low grade dysplasia; HGD, high grade dysplasia; ADC, adenocarcinoma; NE, not evaluated; EC, electrical coagulation; HC, hemoclipping; APC, argon plasma coagulation.
aThe largest diameter of the specimen.
bThe patient did not visit the emergency department because melena subsided spontaneously without any treatment.

**Supplementary Table 2.** Clinical characters of each patient with post-endoscopic submucosal dissection bleeding in the control group.

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| No. | Age/ Sex | Underlying disease | Antithrombotic | Diagnosis | Tumor location | Specimen size (mm)a | Number of clipping | Time of bleeding after ESD (day) | Symptom | Hb drop(≥2.0g/dL) | 2nd look endoscopy | Hospitalization | Trans-fusion | Endoscopic treatment |
| 1 | 70/M | HTN, LC | - | LGD | Middle | 50 | - | 1 | Melena | No (▼1.3) | NEc | - | - | - |
| 2 | 61/ F | - | - | ADC | Lower | 45 | - | 1 | Melena | No (▼1.0) | NEc | - | - | - |
| 3 | 76/M | - | - | LGD | Lower | 60 | - | 1 | Melena | Yes (▼2.8) | NEc | - | - | - |
| 4 | 56/M | HTN, DM | - | ADC | Lower | 45 | - | 1 | Melena | Yes (▼4.0) | NEc | - | - | - |
| 5 | 73/M | HTN | Aspirin | ADC | Middle | 20 | 4 for hemostasis | 1 | Hematemesis/ melena | Yes (▼2.0) | Forrest IIa | 4 dayse | No | HC |
| 6 | 54/M | HTN, DM, CVD | Aspirin | NET | Lower | 50 | - | 2 | Hematemesis/ melena | Yes (▼2.8) | Forrest IIb | 5 days | Yes | EC |
| 7 | 53/M | - | - | ADC | Lower | 55 | - | 2 | Melena | No (▼1.0) | Forrest Ib | 7 dayse | No | - |
| 8 | 48/M | HTN, DM | - | ADC | Lower | 75 | - | 3 | Melena | Yes (▼1.5) | NEd | 2 dayse | No | - |
| 9 | 64/M | HTN | - | ADC | Middle | 40 | - | 5 | Hematemesis/ melena | Yes (▼2.1) | Forrest IIb | 2 days | Yes | AE |
| 10 | 67/M | HTN, DM | - | LGD | Middle | 50 | - | 6b[15] | Hematemesis[Hematemesis] | Yes (▼3.1)[Yes (▼4.0)] | Forrest IIc [Forrest IIa] | 2 days[2 days] | -[-] | EC[EC] |
| 11 | 76/M | HTN | - | ADC | Lower | 85 | - | 7 | Hematemesis/ hematochezia | Yes (▼0.2) | Forrest IIb | 8 days | Yes | EC |
| 12 | 62/M | CHD | Clopidogrel | Gastritis | Middle | 15 | 4 for hemostasis | Within 9 | Asymptomatic | Yes (▼2.0) | NE | - | - | - |
| 13 | 66/F | DM | - | ADC | Lower | 60 | - | Within 11 | Asymptomatic | Yes (▼2.9) | NE | - | - | - |
| 14 | 71/M | HTN, CHD | Aspirin | ADC | Middle | 20 | 3 for muscle tear | Within 13 | Asymptomatic | Yes (▼4.0) | NE | - | - | - |
| 15 | 63/M | HTN, DM, DL | Aspirin | ADC | Lower | 50 | 1 for muscle tear | Within 15 | Asymptomatic | Yes (▼2.1) | NE | - | - | - |
| 16 | 79/F | HTN, DM, DL | Clopidogrel | ADC | Lower | 50 | - | Within 21 | Asymptomatic | Yes (▼5.1) | NE | - | - | - |

M, male; F, female; HTN, hypertension; DM, diabetes mellitus; DL, dyslipidemia; CVD, cerebrovascular disease; CHD, coronary heart disease; LGD, low grade dysplasia; ADC, adenocarcinoma; NET, neuroendocrine tumor; NE, not evaluated; EC, electrical coagulation; HC, hemoclipping; AE, arterial embolization.
aThe largest diameter of the specimen.
bTwo bleeding events occurred; the second bleeding event is indicated in square brackets.
cThe patient did not visit the emergency department because melena subsided spontaneously without any treatment.
dThe patient developed melena before discharge. As endoscopy was delayed during a holiday, melena improved without endoscopic hemostasis.
eThe patient had an extended hospital stay after procedure. The delay (days) from the expected discharge was counted.