Supplement Table:

The clinical comparison outcomes of traction-assisted ESD and conventional ESD in different locations

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|  | **Authors** | **Country,****Year** | **Experimental** **Design** | **Traction Type**  | **Sample** **Size**  | **Procedure Time (mean, min)** | **En Bloc Resection (%)** | **Complications****(%)** |
| **Esophagus** | Yoshida et al57 | Japan,2019 | RCT (multiple centers) | clip-line | 116/116 | 44.5/60.5(P<0.001) | 100/99.1 (P>0.99) | 0/5.2 |
| Xie et al | China,2017 | Case-matched Retrospective | clip-line | 50/50 | 27.58/34.79(P=0.252) | - | 10/30 |
| Koike et al | Japan,2014 | RCT | clip-line | 20/20 | 19.8/31.8(P=0.044) | 100/100 | 0/0 |
| Ota et al | Japan,2012 | Retrospective | clip-line | 67/20 | 104/156(p=0.026) | - | 0/3 |

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| **Stomach** | Yoshida et al61 | Japan,2015 | Case-matched Retrospective | clip-line | 95/104 | 43/52(P<0.01) | 100/100 | 5/12 |
| Suzuki et al29 | Japan,2015 | Case-matched Retrospective | clip-line | 43/43 | 82.2/118.2(P=0.002) | 97.7/100 | 7.0/1.0 |
| Yoshida et al62 | Japan,2018 | RCT (multiple centers) | clip-line | 319/316 | 58.1 /60.7(P=0.45) | 100/100 | 5.3/6.9 |
| Yoshida et al33 | Japan,2016 | Case-matched Retrospective | clip-snare | 20/20 | median:38.5/59.5 (P=0.023) | 100/100 | 0/3 |
| Hashimoto et al63 | Japan,2017 | Case-matched Retrospective | S–O clip | 48/48 | 47.2/69.2(P=0.035) | 100/100 | 2.1/6.4 |
| Higuchi et al | Japan,2013 | Retrospective | double-scope | 30/27 | median:80/101(P=0.22) | 100/89 | - |
| **Colorectum** | Yamasaki et al | Japan,2018 | RCT | novelclip-line | 42/42 | median:40/70(P<0.0001) | 100/100 | 2/2 |
| Yamada et al | Japan,2015 | Retrospective | clip-snare | 17/123 | 45.6 /70.1(P=0.047) | 100/96.7 | 5.9/8.1 |
| Uraoka et al | Japan,2010 | Retrospective | double-scope | 21/16 | 96/116(P=0.18) | 100/100 | 0/6.3 |
| Mori et al  | Japan,2016 | RCT | internal ring-shaped thread | 21/22 | 80/130(P=0.001) | - | 0/9.1 |
| Ritsuno et al | Japan,2014 | RCT | S-O clip | 27/23 | 37.4/ 67.1(P=0.03) | 100/95.7 | 0/4.35 |
| Ye et al  | China,2019 | Case-matched Retrospective | magnetic bead  | 13/13 | median:33/40(P=0.111) | 100/92.3 | 0/38.5 |

All the comparison data are displayed in the manner of “Traction assisted ESD/Conventional ESD”.