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 | novel  clip-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”.