**Supplementary Tables**

**Supplementary Table S1.** Clinical and endoscopic features, surgical approach and follow up of case reports of rectal Schwannomas

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study, year [ref.]** | **Age, gender** | **Symptoms** | **Endoscopic appearance** | **Distance from the anal verge (cm)** | **Lesion size (cm)** | **Surgical approach** | **Follow up** |
| Miettinem, 2001 [S1] | 82, M | NA | Submucosal nodule | NA | 0.5 | Endoscopic polypectomy | No LR at 211 months |
|  |  |  |  |  |  |  |  |
| Akgul, 2003 [S2] | 57, F | Chronic rectal pain | Sessile rectal mass | NA (lower rectum) | 6.5 | Open rectal resection | No LR at 12 months |
|  |  |  |  |  |  |  |  |
| Mulchandani, 2005 [S3] | 70, M | Rectal bleeding | Submucosal mass | 4 | 12 | Open rectal resection | No LR at 6 months |
|  |  |  |  |  |  |  |  |
| Lee, 2006 [S4] | 61, F | Rectal bleeding | Submucosal nodule | NA | 4 | Trans-anal excision | NA |
|  |  |  |  |  |  |  |  |
| Suzuki, 2014 [S5] | 70, F | No symptoms | Submucosal nodule | 10 | 2.8 | TEM | No LR at 6 months |
|  |  |  |  |  |  |  |  |
| Goh, 2008 [S6] | 41, F | Rectal bleeding | Submucosal nodule | NA | 2.9 | Trans-anal excision | No LR at 20 months |
|  |  |  |  |  |  |  |  |
| Shelat, 2013 [S7] | 63, F | Loss of appetite | Broad-base polyp | NA (upper rectum) | 4 | Open rectal resection | No LR at 36 months |
|  |  |  |  |  |  |  |  |
| Kawaguchi, 2014 [S8] | 77, F | Anal pain | Submucosal nodule | NA (upper rectum) | 2 | ESD | No LR at 24 months |
|  |  |  |  |  |  |  |  |
| Tan, 2012 [S9] | 63, F | Loss of appetite | Broad-base polyp | NA (upper rectum) | 3 | Open rectal resection | NA |
|  |  |  |  |  |  |  |  |
| Vijayasekaran, 2012 [S10] | 75, F | No symptoms | Submucosal nodule | NA | 3.2 | Open rectal resection | NA |
|  |  |  |  |  |  |  |  |
| Tedeschi, 2011 [S11] | 80, F | Rectal bleeding | Broad-base polyp | 13 | 4 | Open rectal excision | No LR at 24 months |
|  |  |  |  |  |  |  |  |
| Bhardwaj, 2002 [S12] | 35, F | Difficult defecation | Protruding mass | 10 | 2.3 | Open rectal resection | No LR at 24 months |
|  |  |  |  |  |  |  |  |
| Maciejewski, 2000 [S13] | 67, F | Abdominal pain | Submucosal mass | NA (lower rectum) | 8 | Open rectal resection | No LR at 144 months |
|  |  |  |  |  |  |  |  |
| Hsu, 2010 [S14] | 88, F | Difficult defecation | Submucosal mass | 4 | 3.5 | Trans-anal excision | No LR at 9 months |
|  |  |  |  |  |  |  |  |
| Zippi, 2013 [S15] | 72, M | Abdominal pain | Sessile polyp | 1 | 1.5 | Endoscopic polypectomy | No LR at 6 months |
|  |  |  |  |  |  |  |  |
| Kakizoe, 1998 [S16] | 72, M | No symptoms | Submucosa lesion | 10 | 1.5 | TEM | NA |
|  |  |  |  |  |  |  |  |
| Murakami, 1996 [S17] | 75, M | No symptoms | Submucosal lesion | 5 | 3 | Trans-anal excision | No LR at 32 months |
|  |  |  |  |  |  |  |  |
| Abel, 1985 (1) [S18] | 52, F | Rectal discomfort | Sessile polyp | NA | 4.5 | Trans-anal excision | NA |
|  |  |  |  |  |  |  |  |
| Abel, 1985 (2) [S18] | 52, M | Rectal discomfort | Protruding mass | NA | 1.5 | Trans-anal excision | NA |
|  |  |  |  |  |  |  |  |
| Catania, 2001 [S19] | 41, M | Tenesmus | Submucosal mass | NA | 8 | Open rectal resection | NA |
|  |  |  |  |  |  |  |  |
| Zibert, 2019 [S20] | 51, F | No symptoms | Submucosal nodule | 4 | 0.7 | ESD | NA |
|  |  |  |  |  |  |  |  |
| Zhang, 2018 [S21] | 61, F | Difficult defecation | Submucosal mass | 6 | 4 | Laparoscopic rectal resection | No LR at 3 months |
|  |  |  |  |  |  |  |  |
| Baskaran, 2014 [S22] | 49, M | Rectal bleeding | Sessile polyps | NA | 0.2-0.3 | ESD | No LR at 6 months |
|  |  |  |  |  |  |  |  |
| Present case | 69, M | No symptoms | Submucosal nodule | 10 | 1.3 | TEM | No LR at 12 months |

*LR*: local recurrence; *TEM*: trans-anal endoscopic microsurgery; *ESD*: endoscopic submucosal dissection.

**Supplementary References**

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