|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 　 | **Overall(n=314)** | **SMI loss(n=49)** | **Non-SMI loss (n=265)** | **p value** |
| **Sex** |  |  |  | 1 |
| Female | 111 (35.4%) |  17（34.7%） |  94（35.5%） |  |
| male | 203 (64.6%) |  32（65.3%） |  171（64.5%） |  |
| **Age** | 58.91±11.48 | 59.08±11.32 | 58.88±11.51 | 0.51 |
| **CRP(mg/L)** |  |  |  | 0.52 |
| **>10** |  36(11.5%) |  4(8.0%) |  32(12.1%) |  |
| **<10** | 262(83.4%) | 44(90.0%) | 218(82.3%) |  |
| **Missing** | 16(5.1%) | 1(2.0%) | 15(5.6%) |  |
| **ALB(g/L)** |  |  |  | <0.001 |
| **>35** | 301(95.9%) | 42(85.7%) | 259(97.7%) |  |
| **<35** | 13(4.1%) | 7(14.3%) | 6(2.3%) |  |
| **Pre-treatment BMI** | 23.36±3.28 | 24.28±3.49 | 23.19±3.22 | 0.21 |
| **BMI change** |  |  |  | <0.001 |
| BMI stable (± 10.0%) | 221(70.4%) | 28(57.2%) | 193(72.8%) |  |
| BMI loss (> –10.0%) | 49(15.6%) | 18(36.7%) | 31(11.7%) |  |
| BMI gain (> +10.0%) | 44(14.0%) | 3(6.1%) | 41(15.5%) |  |
| **ASA** |  |  |  | <0.001 |
| Ⅰ | 178 (56.7%) |  27（55.1%） |  151（57.0%） |  |
| Ⅱ | 102 (32.5%) |  15（30.6%） |  87（32.8%） |  |
| Ⅲ | 34 (10.8%) |  7（14.4%） |  27（10.2%） |  |
| **30-d Any complications** |  |  |  | 0.62 |
| no | 224 (71.3%) |  33（67.3%） | 191(72.1%) |  |
| yes | 90 (28.7%) |  16 (32.7%） |  74（27.9%） |  |
| **30-d Major complications(Clavien Dindo score)** |  |  |  |  |
| I-Ⅱ | 70 (22.2%) |  13（26.5%） | 57（21.5%） | 1 |
| Ⅲ-IV | 20 (6.4%) |  4（8.2%） | 16（6.0%） |  |
| **Operation** |  |  |  | 0.11 |
| right hemi-colectomy | 28 (8.9%) |  7（14.3%） | 21（7.9%） |  |
| Left hemi-colectomy | 62 (19.7%) |  7（14.3%） | 55（20.8%） |  |
| Dixon | 204 (65.0%) |  32（65.3%） | 132（49.8%） |  |
| Miles | 20 (6.4%) |  3（6.1%） | 57（21.5%） |  |
| **TNM stage** |  |  |  | 0.17 |
| Ⅰ | 46 (14.6%) |  10（20.4%） | 36（13.6%） |  |
| Ⅱ | 150 (47.8%) |  15（30.6%） | 135（50.9%） |  |
| Ⅲ | 118 (37.6%) | 24（49%） | 94（35.5%） |  |
| **Neoadjuvant therapy after** |  |  |  | 1 |
| **preoperative scan** |  |  |  |  |
| no | 206 (95.1%) |  34（69.4%） | 172（64.9%） |  |
| yes | 108 (4.9%) |  15（30.6%） | 93（35.1%） |  |
| **Postoperative LOS, days** | 9.71±2.41 | 14.42±2.14 | 11.58±2.39 | 0.09 |
| **<=7** | 165 (52.5%) | 28(56.52%) | 140(52.89%) |  |
| **>7** | 149 (47.5%) | 21(43.48%) | 125(47.11%) |  |
| **30-d Readmission** |  |  |  |  |
| no | 280 (89.2%) | 43(87.8%) | 237(90.4%) | 0.92 |
| yes | 34 (10.8%) | 6(12.2%) | 28(10.6%) |  |
| **Incisional hernia** |  |  |  | <0.001 |
| no | 298 (94.9%) | 40(81.6%) | 258(97.4%) |  |
| yes | 16 (5.1%) | 9(18.4%) | 7(2.6%) |  |

**Supplementary Table S1** Clinical characteristics and perioperative outcomes according to muscle change (n=314)