Table.S1 The surgical details of CD patients in low PNI and high PNI groups

|  |  |  |  |
| --- | --- | --- | --- |
|  | PNI ≤34 (n = 39) | PNI ＞34 (n = 85) | *P* Value |
| Emergency surgery | 5 (12.8) | 11 (12.9) | 0.985 |
| Indication for surgery |  |  | **0.003** |
| Bowel obstruction | 16 (41.0) | 41 (48.2) |  |
| Fistula | 3 (7.7) | 11 (12.9) |  |
| Medically  refractory disease | 1 (2.6) | 16 (18.8) |  |
| Perforation | 19 (48.7) | 17 (20.0) |  |
| Type of surgery |  |  | 0.546 |
| Open | 30 (76.9) | 61 (71.7) |  |
| Laparoscopic | 9 (23.1) | 24 (28.3) |  |
| Colostomy | 12 (30.8) | 38 (44.7) | 0.142 |

PNI: Prognostic Nutritional Index.

Table S2 Patient demographics and clinical characteristics divided by major complications.

|  |  |  |  |
| --- | --- | --- | --- |
| Variables | Without major complications | With major complications | *P* Value |
| Age (mean (SD)) | 38.29 (13.43) | 33.94 (11.76) | **0.096** |
| Sex |  |  | **0.094** |
| Male | 49 (55.1) | 25 (71.4) |  |
| Female | 40 (44.9) | 10 (28.6) |  |
| BMI (mean (SD)) | 19.24 (3.33) | 17.46 (2.20) | **0.004** |
| Smoke (%) |  |  | 0.349 |
| No | 79 (88.8) | 33 (94.3) |  |
| Yes | 10 (11.2) | 2 (5.7) |  |
| Alcohol (%) |  |  | 0.399 |
| No | 83 (93.3) | 34 (97.1) |  |
| Yes | 6 (6.7) | 1 (2.9) |  |
| HBI (median [IQR]) | 5.00 [2.00, 5.00] | 6.00 [5.00, 7.00] | **0.001** |
| Disease duration (median [IQR]) | 4.00 [1.00, 8.00] | 2.00 [1.00, 6.00] | 0.357 |
| Age of set (%) |  |  | 0.49 |
| A1 | 14 (15.7) | 4 (11.4) |  |
| A2 | 48 (53.9) | 23 (65.7) |  |
| A3 | 27 (30.3) | 8 (22.9) |  |
| Location (%) |  |  | 0.234 |
| L1 | 43 (48.3) | 12 (34.3) |  |
| L2 | 5 (5.6) | 1 (2.9) |  |
| L3 | 41 (46.1) | 22 (62.9) |  |
| Behavior (%) |  |  | 0.366 |
| B1 | 16 (18.0) | 6 (17.1) |  |
| B2 | 51 (57.3) | 16 (45.7) |  |
| B3 | 22 (24.7) | 13 (37.1) |  |
| Perianal disease (%) |  |  | 0.245 |
| No | 62 (69.7) | 28 (80.0) |  |
| Yes | 27 (30.3) | 7 (20.0) |  |
| Indication of surgery (%) |  |  | **0.041** |
| Bowel obstruction | 46 (51.7) | 11 (31.4) |  |
| Fistula | 9 (10.1) | 5 (14.3) |  |
| Medically refractory disease | 14 (15.7) | 3 (8.6) |  |
| Perforation | 20 (22.5) | 16 (45.7) |  |
| Preoperative medication (%) |  |  | 0.111 |
| No therapy | 18 (20.2) | 4 (11.4) |  |
| Steroid | 11 (12.4) | 9 (25.7) |  |
| 5ASA | 14 (15.7) | 10 (28.6) |  |
| AZA | 29 (32.6) | 7 (20.0) |  |
| MTX | 13 (14.6) | 5 (14.3) |  |
| IFX | 4 (4.5) | 0 (0.0) |  |
| Type of surgery |  |  | 0.135 |
| Open | 62 (69.7) | 29 (82.9) |  |
| Laparoscopic | 27 (30.3) | 6 (17.1) |  |
| WBC (median [IQR]) | 5.68 [4.20, 7.50] | 7.72 [4.30, 10.02] | 0.135 |
| Hemoglobin (median [IQR]) | 113.00 [100.00, 132.00] | 107.00 [92.75, 121.00] | 0.116 |
| Platelet (median [IQR]) | 2.00 [2.00, 3.00] | 2.00 [2.00, 3.00] | 0.823 |
| Myopenia (%) |  |  | **0.049** |
| No | 69 (77.5) | 21 (60.0) |  |
| Yes | 20 (22.5) | 14 (40.0) |  |
| PNI (%) |  |  | **<0.001** |
| Low | 19 (21.3) | 20 (57.1) |  |
| High | 70 (78.7) | 15 (42.9) |  |

BMI: Body Mass Index; HBI: Harvey Bradshaw Index; WBC: White Blood Cell; 5-ASA: 5-aminosalicylate; AZA: Azathioprine; MTX: Methotrexate; IFX: Infliximab; PNI: Prognostic Nutritional Index; IQR, interquartile range

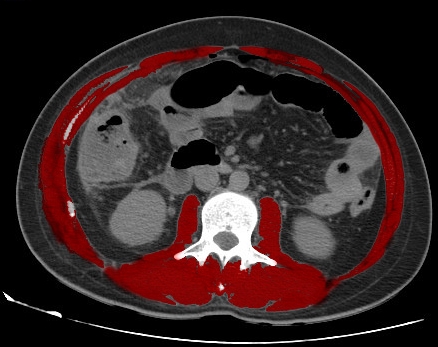


Figure S1 Evaluation of the skeletal muscle mass using a third lumbar computed tomography scan slice

Red: Skeletal muscle (including the psoas, paraspinal, and abdominal wall muscles)



Fig. S2 ROC curve of the prognostic nutritional index (PNI) affecting postoperative complications. The area under curve was 0.673. A PNI of 33.9 had the highest sensitivity (57.1%) and specificity (78.7%)

**图表

描述已自动生成**

Fig.S3 Length of postoperative admission dependent on risk score of postoperative complications