**Supplementary Table 1. Current Procedural Terminology (CPT) codes**

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|  | **CPT** | **CPT Description** |
| 1 | 44140 | Colectomy, partial; with anastomosis |
| 2 | 44141 | Colectomy, partial; with skin level cecostomy or colostomy |
| 3 | 44143 | Colectomy, partial; with end colostomy and closure of distal segment (Hartmann type procedure) |
| 4 | 44144 | Colectomy, partial; with resection, with colostomy or ileostomy and creation of mucofistula |
| 5 | 44145 | Colectomy, partial; with coloproctostomy (low pelvic anastomosis) |
| 6 | 44146 | Colectomy, partial; with coloproctostomy (low pelvic anastomosis), with colostomy |
| 7 | 44147 | Colectomy, partial; abdominal and transanal approach |
| 8 | 44150 | Colectomy, total, abdominal, without proctectomy; with ileostomy or ileoproctostomy |
| 9 | 44155 | Colectomy, total, abdominal, with proctectomy; with ileostomy |
| 10 | 44151 | Colectomy, total, abdominal, without proctectomy; with continent ileostomy |
| 11 | 44205 | Colectomy, partial, with removal of terminal ileum with ileocolostomy |
| 12 | 44160 | Laparoscopy, surgical; colectomy, partial, with removal of terminal ileum with ileocolostomy |
| 13 | 44204 | Laparoscopy, surgical; colectomy, partial, with anastomosis |
| 14 | 44206 | Laparoscopy, surgical; colectomy, partial, with end colostomy and closure of distal segment (Hartmann type procedure) |
| 15 | 44207 | Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis) |
| 16 | 44208 | Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis) with colostomy |
| 17 | 44210 | Laparoscopy, surgical; colectomy, total, abdominal, without proctectomy, with ileostomy or ileoproctostomy |

**Supplementary Table 2. Multivariate analysis**

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| Variable | Point Estimate | 95% Wald Confidence Limits | | P value |
| Age 65+ | 0.9542 | 1.1561 | 0.7874 | 0.6328 |
| Gender (Male vs Female) | 1.0225 | 1.2121 | 0.8636 | 0.7927 |
| BMI [< 18.5] vs [18.5 - 24.9] | 1.101 | 0.702 | 1.728 | 0.6757 |
| BMI [25 - 29.5] vs [18.5 - 24.9] | 1.129 | 0.907 | 1.405 | 0.2774 |
| BMI [>= 30] vs [18.5 - 24.9] | 1.349 | 1.083 | 1.68 | 0.0076 |
| History of Diabetes | 1.4535 | 1.8450 | 1.1455 | 0.0021 |
| Smoker within 1 year of procedure | 1.2225 | 1.5244 | 0.9794 | 0.0753 |
| History of COPD | 1.5898 | 2.2173 | 1.1403 | 0.0063 |
| Ascites 30 days prior to Surgery | 1.2987 | 2.3753 | 0.7117 | 0.3938 |
| Underlying Cancer | 0.8865 | 1.0953 | 0.7184 | 0.264 |
| Disseminated Cancer | 1.6584 | 2.2075 | 1.2453 | 0.0005 |
| Open Wound | 0.6636 | 1.1377 | 0.3871 | 0.1364 |
| Emergency Case | 0.9901 | 1.4085 | 0.6959 | 0.9558 |
| Wound Classification Contaminated or Dirty | 1.1848 | 1.4881 | 0.9443 | 0.1419 |
| ASA >= 3 | 1.3263 | 1.6051 | 1.0953 | 0.0037 |
| More than 1 other procedure | 0.9116 | 1.1249 | 0.7391 | 0.3888 |
| Duration of Procedure (minutes) | 1.002 | 1.001 | 1.002 | <.0001 |
| Open Surgical Approach | 1.1696 | 1.3928 | 0.9833 | 0.0773 |
| Hypertension | 1.1050 | 1.3387 | 0.9116 | 0.3091 |
| Currently Requiring or On Dialysis | 1.0941 | 2.3866 | 0.5023 | 0.8204 |
| Steroid/Immunosuppressant Use for a Chronic Condition | 1.3175 | 1.6694 | 1.0395 | 0.0224 |
| Bleeding Disorders | 0.9940 | 1.4514 | 0.6812 | 0.9752 |
| Sepsis within 48 Hours Prior to Surgery | 0.8834 | 1.2531 | 0.6219 | 0.4868 |

SSI: Surgical Site Infection

BMI: Body Mass Index

COPD: Chronic Obstructive Pulmonary Disease

ASA: American Society of Anesthesiologists physical status