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| --- | --- |
| **Table 2: Summary of all predictors identified in literature search, by whether or not they were included in the model, and reasons for exclusion** |  |
| **Considered for inclusion in model?** | **Patient characteristics** | **Comorbidities** | **Tumour characteristics** | **Treatment process** | **Serum levels** | **Other**  |
| **Yes** | Age | Elixhauser comorbidity index | Cancer site | Mode of admission |   | Calendar year of surgery |
|  | Sex | Charlson Comorbidity index | TNM stage | Chemotherapy Hospital teaching  |   | Postoperative surgical |
|  | ASA grade | Other individual comorbidities | Dukes' stage | Consultant status |   |  complications |
| **No: Can be influenced by provider** |   |   |   | Grade of surgeon Radiotherapy Surgical urgency Laparoscopic |   | Cardiopulmonary complications |
|   |   |   | Surgical procedure surgery |   | Wound healing (normal |
|   |   |   | Duration of surgery LN dissection |   |  vs. other) |
| **No: Not routinely available in clinical datasets** | Weight loss Admitted from / discharged to |   | Tumour mobility | Time of day of surgery Blood transfusion before/during surgery | Albumin Haemoglobin | Clinical anastomotic leakPerioperative blood loss |
| Steroid use  |   | Peritoneal soiling | Prophylactic antibiotics | Sodium Creatinine | Previous abdominal /colonic |
| BMI Dialysis |   | Sepsis | Prophylactic heparin | Prothrombin Bilirubin |  resection |
| SBP dependency |   | Other staging of tumour | Case-load of surgeon | Urea nitrogen Hematocrit | Wound class (Clean/  |
| Pulse |   | Obstruction | Stoma type (ileostomy /colostomy) | Potassium Glucose |  contaminated/ dirty) |
| Functional health status |   | Bowel perforation | Intestinal anastomosis | Cardiac failure Urea | Ascites  |
| Smoking |   | Abscess | Anastomosis technique | Alkaline phosphatase |  |
| Alcohol consumption |   | Peritoneal metastases | Obstruction policy - primary vs. | Platelet level |  |
| Acute physiological score |   | Apical node (involved vs free |  staged resection | White blood count |  |
| Drug addiction |   |  of tumour) | Stoma (none vs. primary with  | Gamma-glutamyltransferase |  |
| Respiratory status |   | Differentiation (poor vs. other) |  stoma vs. delayed) | Carcinoembryonic antigen |   |
| Glasgow coma score |   |   | Cancer excision / cancer resection | Partial thromboplastin |   |
| Ethnicity |   |   | Distal clear margin | Glutamic-oxxaloacetic - |   |
| DNR status |   |   | Bowel preparation - any? |  transaminase |   |
| **No: Too many missing in NBCA** |   |   | Tumour size and fixity |   |   | Operative intent |
|   |   |   |   |   |   |
| **No: Part of another predictor** |   |   | Disseminated cancer | Operative severity (procedures grouped by how major surgery is) |   |   |
|  |   |   | Vascular invasion |   |   |   |
| **No: Not applicable to this study** | Indication for surgeryHealth insuranceNo. admissions for obstruction |   | Primary cancer site | General anaesthesiaSynchronous vs metachronous obstruction |   |   |