|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 leak  Perioperative 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 surgery  Health insurance  No. admissions for obstruction |  | Primary cancer site | General anaesthesia  Synchronous vs metachronous obstruction |  |  |