

United Lincolnshire Hospitals NHS Trust - Pilgrim Hospital Boston

East Midlands A02

The United Lincolnshire Hospitals NHS Trust - Pilgrim Hospital Boston incorporates Pilgrim Hospital in Boston <https://www.ulh.nhs.uk/> <<https://www.ulh.nhs.uk/>>

Patient inclusion and data sources

The majority of these results are for patients in England and Wales diagnosed with bowel cancer 1 Apr 2019 – 31 Mar 2020. The exceptions are for adjuvant chemotherapy, APER/Hartmann's and the five trust outcomes: 30-day unplanned readmission, 30-day unplanned return-to-theatre, 90-day mortality 2-year mortality and unclosed ileostomy.

30-day unplanned readmission, 30-day unplanned return to theatre and 90-day mortality are further restricted to patients undergoing surgery up to 31 March 2020. Two-year mortality estimates include patients undergoing a major resection between 1 April 2017 and 31 March 2018. Adjuvant chemotherapy estimates include patients undergoing major resection for pathological stage III colon cancer between 01 December 2016 and 31 August 2019.

The Audit dataset is linked to Hospital Episode Statistics (HES) and Patient Episode Database for Wales (PEDW) at the patient level to obtain further information on patient care and follow-up such as stoma reversal and emergency readmissions in England/Wales. The dataset also links to Office of National Statistics records. These provide information about date, place and cause of death.

NBOCA also links to the National Radiotherapy Dataset (RTDS) for information on radiotherapy treatment in England, and the Systemic Anti-Cancer Therapy database (SACT) for information on chemotherapy treatment in England.

Data Quality

Case ascertainment

Number of patients reported to the Audit as a percentage of the number of patients admitted for the first time to the trust/network with a diagnosis of bowel cancer within the audit period according to NCRAS in England and PEDW in Wales. This can be larger than 100 if more patients are reported to the Audit than identified in NCRAS/PEDW.

Data completeness

% of relevant patient group with useable value of data item.

ASA grade

% of patients recorded as having a major resection who have a particular ASA grade recorded, or no ASA recorded.

Management of all patients

Potentially curative patients

Patients electively diagnosed with colon cancer with pre-treatment staging of T2-T4 and no evidence of metastatic disease.

Management of patients having major resection

At least 12 lymph nodes excised (%)

% of colon cancer patients undergoing major resection with a recorded number of lymph nodes, who had at least 12 lymph nodes examined.

Adjuvant chemotherapy

% of adjuvant chemotherapy in patients undergoing major resection for pathological stage III colon cancer between 01 June 2016 and 31 August 2019. These are unadjusted chemotherapy rates. SACT and HES data re used for patients treated in England and PEDW data are used for patients treated in Wales.

Rectal cancer patients

Neo-adjuvant therapy (%)

% of rectal cancer patients having short- or long-course radiotherapy prior to major resection.

Circumferential resection margin: Negative (%)

% of rectal cancer patients undergoing major resection whose CRM is reported to be negative.

Circumferential resection margin: Recorded (%)

% of rectal cancer patients undergoing a major resection who have a recorded CRM.

APER rate (%)

% of patients with rectal cancer undergoing abdominoperineal excision of the rectum and therefore having a permanent stoma this audit year.

APER/Hartmann's (%)

% of patients whose rectal cancer resection is an abdomino-perineal excision of rectum (APER)/pelvic exenteration/Hartmann's 1 April 2014 to 30 September 2018.

Compare trust outcomes

Funnel plots display trust risk-adjusted outcomes for 30-day unplanned readmission, 30-day unplanned return to theatre, 90-day mortality, 2-year mortality and 18-month unclosed ileostomy. The funnel regions represent the 95 per cent limit and the 99.8 per cent limit for trusts compared to the national average. Those trusts with results outside the outer (99.8 per cent) limit are considered potential outliers.

Risk adjustment is performed using the seven items listed under Data Quality as well as mode of admission (elective/emergency) and number of co-morbidities according to HES/PEDW, and an interaction between age and distant metastases. Missing values are imputed using Multiple Imputation. The model for two-year mortality additionally includes interactions between follow-up time (0-3 months after surgery vs. 3-24 months after surgery) and all of the risk factors.

See [FAQs <https://www.nboca.org.uk/about/faq/>](https://www.nboca.org.uk/about/faq/) for more details.

Data Quality

All Patients:	Trust	Network	National
Number of patients in Audit	164	1800	32641
Case ascertainment (%)	Good	Good	Good

All Patients:	Trust	Network	National
Data completeness of:			
– Pre-treatment TNM (%)	82	72	85
– Performance status (%)	88	91	86

Patients having major resection:	Trust	Network	National
Number of patients in Audit	98	1090	18552
ASA grade 1 (%)	N/A	5	9
ASA grade 2 (%)	37	53	53
ASA grade 3 (%)	57	31	30
ASA grade 4+ (%)	6	4	2
ASA grade not recorded (%)	N/A	6	6
Data completeness of:			
7 Audit items for risk-adjustment (%)	100	92	89

Key:

- > 80%
- 50 - 80%
- < 50%

Management of all patients

All Patients:	Trust	Network	National
Number of patients in Audit	164	1800	29766
Seen by Clinical Nurse Specialist (%)	91	92	86

All patients deemed potentially curative	Trust	Network	National
Number of potentially curative patients	59	392	8157
Undergoing major resection (%)	66	78	83

Management of patients having major resection

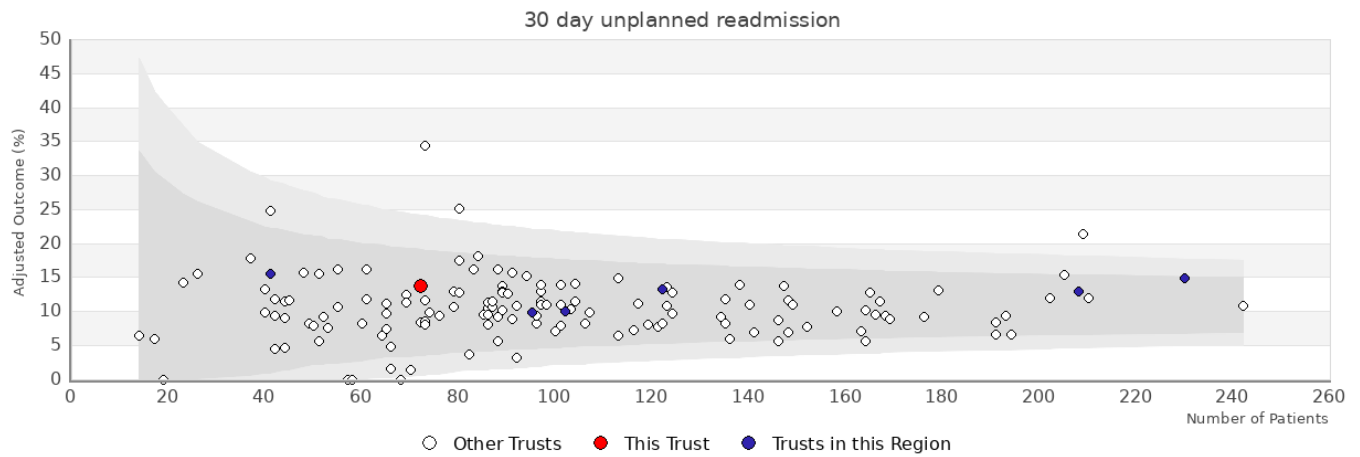
Patients having major resection:	Trust	Network	National
Number of patients in Audit	98	1090	18515
Distant metastases (%)	5	9	6
Urgent or emergency surgery (%)	15	18	21
At least 12 lymph nodes excised (%)	93	84	86
Laparoscopic surgery attempted (%)	62	64	71
Risk-adjusted length of stay > 5 days (%)	53	59	58

Patients having major resection for stage III colon cancer:	Trust	Network	National
Number of patients in audit	54	590	10335
Adjuvant chemotherapy (%)	67	66	63

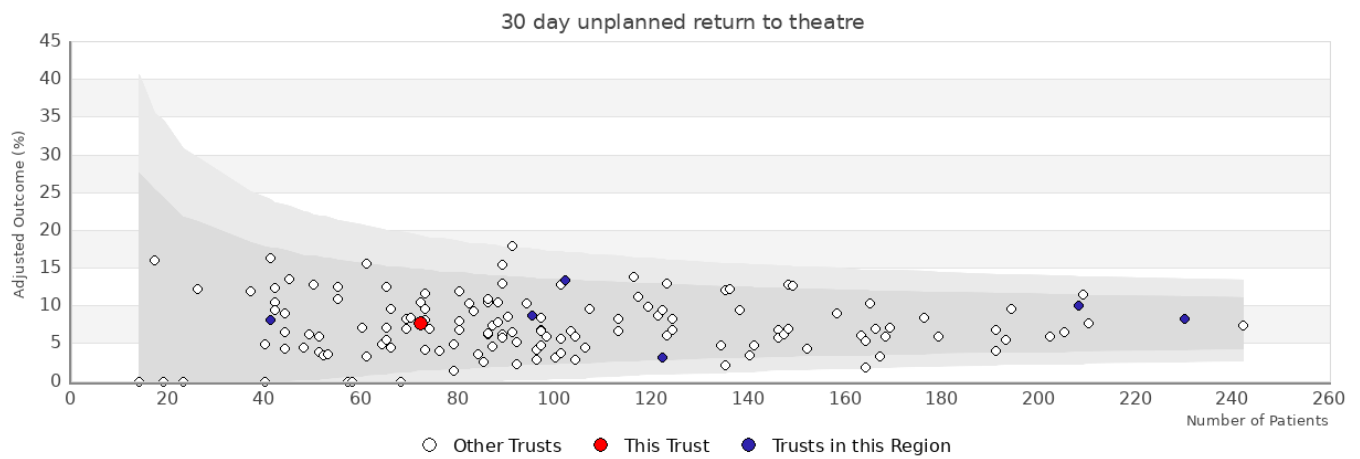
Rectal cancer patients

Patients having major resection:	Trust	Network	National
Number of patients in Audit	19	239	4137
Neoadjuvant therapy (%)	65	39	34
Circumferential resection margin: Recorded (%)	100	89	90
Circumferential resection margin: Negative (%)	100	85	84
Rectal volume	N/A	N/A	N/A

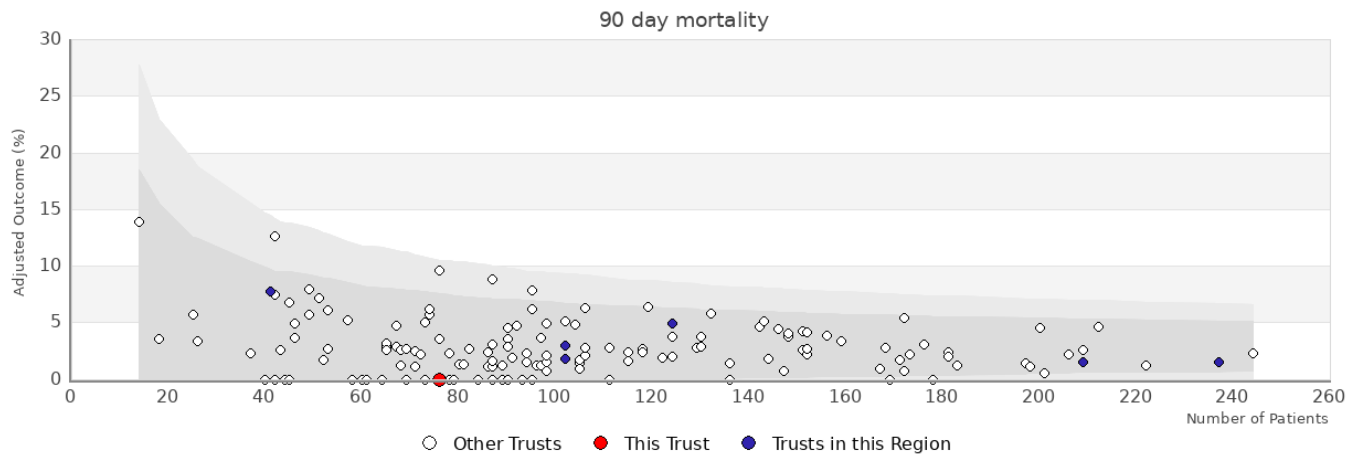
Patients in APER/Hartmanns estimate:	Trust	Network	National
Number of patients in APER/Hartmanns estimate	83	1102	17956
APER/Hartmanns (%)	43	44	37



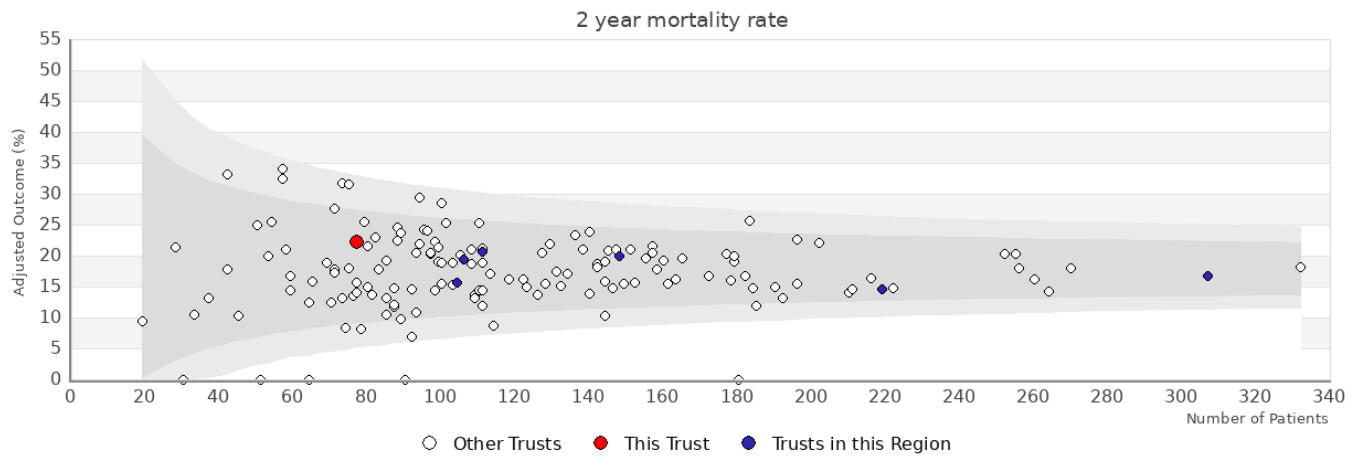
Trust	Number	Adjusted	Observed
United Lincolnshire Hospitals NHS Trust - Pligrim Hospital Boston	72	13.7%	13.9%
Other trusts within the region: East Midlands			
Kettering General Hospital NHS Foundation Trust	95	9.8%	9.5%
Northampton General Hospital NHS Trust	122	13.3%	13.9%
Nottingham University Hospitals NHS Trust	208	12.9%	13%
Sherwood Forest Hospitals NHS Foundation Trust	102	10%	9.8%
University Hospitals of Leicester NHS Trust	230	15%	14.8%
United Lincolnshire Hospitals NHS Trust - Lincoln and Grantham	41	15.6%	14.6%



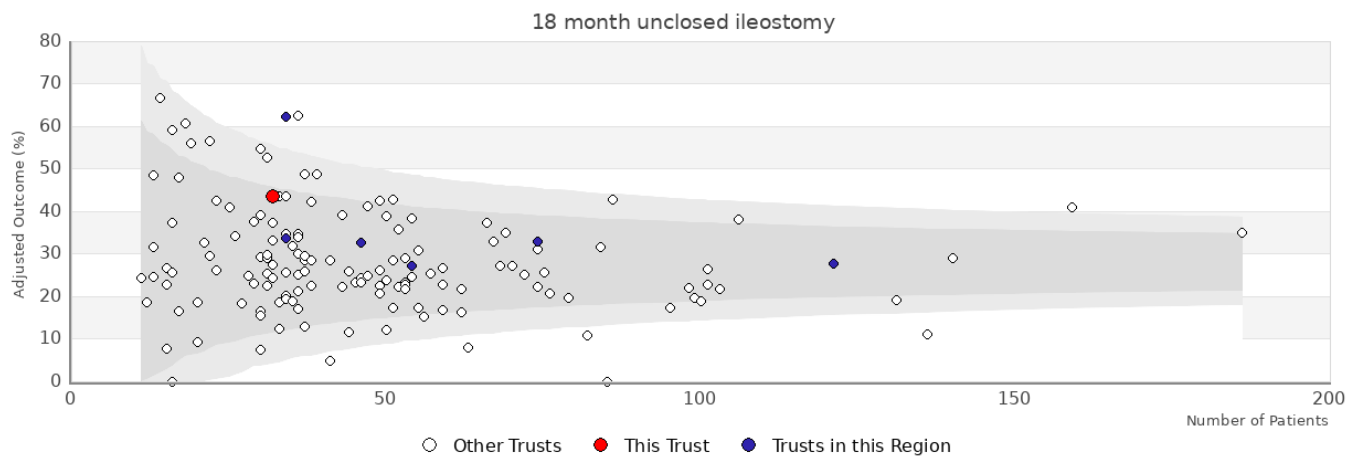
Trust	Number	Adjusted	Observed
United Lincolnshire Hospitals NHS Trust - Plgrim Hospital Boston	72	7.7%	8.3%
Other trusts within the region: East Midlands			
Kettering General Hospital NHS Foundation Trust	95	8.7%	8.4%
Northampton General Hospital NHS Trust	122	3.1%	3.3%
Nottingham University Hospitals NHS Trust	208	10%	10.1%
Sherwood Forest Hospitals NHS Foundation Trust	102	13.4%	12.8%
University Hospitals of Leicester NHS Trust	230	8.3%	8.7%
United Lincolnshire Hospitals NHS Trust - Lincoln and Grantham	41	8.1%	7.3%



Trust	Number	Adjusted	Observed
United Lincolnshire Hospitals NHS Trust - Pligrim Hospital Boston	76	-	-
Other trusts within the region: East Midlands			
Kettering General Hospital NHS Foundation Trust	102	1.9%	2%
Northampton General Hospital NHS Trust	124	4.9%	4.8%
Nottingham University Hospitals NHS Trust	209	1.5%	1.4%
Sherwood Forest Hospitals NHS Foundation Trust	102	3%	2.9%
University Hospitals of Leicester NHS Trust	237	1.5%	2.1%
United Lincolnshire Hospitals NHS Trust - Lincoln and Grantham	41	7.7%	7.3%



Trust	Number	Adjusted	Observed
United Lincolnshire Hospitals NHS Trust - Pligrim Hospital Boston	77	22.3%	28.6%
Other trusts within the region: East Midlands			
Kettering General Hospital NHS Foundation Trust	106	19.3%	17.5%
Northampton General Hospital NHS Trust	148	19.9%	21.3%
Nottingham University Hospitals NHS Trust	219	14.6%	13.9%
Sherwood Forest Hospitals NHS Foundation Trust	104	15.7%	13.8%
University Hospitals of Leicester NHS Trust	307	16.7%	19.6%
United Lincolnshire Hospitals NHS Trust - Lincoln and Grantham	111	20.7%	24.4%



Trust	Number	Adjusted	Observed
United Lincolnshire Hospitals NHS Trust - Pligrim Hospital Boston	32	43.5%	50%
Other trusts within the region: East Midlands			
Kettering General Hospital NHS Foundation Trust	34	33.7%	32.4%
Northampton General Hospital NHS Trust	54	27.3%	25.9%
Nottingham University Hospitals NHS Trust	74	32.9%	32.4%
Sherwood Forest Hospitals NHS Foundation Trust	46	32.7%	34.8%
University Hospitals of Leicester NHS Trust	121	27.7%	27.3%
United Lincolnshire Hospitals NHS Trust - Lincoln and Grantham	34	62.3%	64.7%