

# Harrogate and District NHS Foundation Trust

West Yorkshire and Harrogate A19

The Harrogate and District NHS Foundation Trust incorporates Harrogate District Hospital <a href="https://www.hdft.nhs.uk/">https://www.hdft.nhs.uk/</a> <a href="https://www.hdft.nhs.uk/">https://www.hdft.nhs.uk/</a>

#### Patient inclusion and data sources

The majority of these results are for patients in England and Wales diagnosed with bowel cancer 1 Apr 2017 – 31 Mar 2018. The exceptions are for adjuvant chemotherapy and the four trust outcomes: 30-day unplanned readmission, 90-day mortality, 2-year mortality and 18-month stoma rate. 30-day unplanned readmission and 90-day mortality are further restricted to patients undergoing surgery up to 31 October 2018 for patients treated in England, and up to 28 February 2018 for patients treated in Wales. Two-year mortality estimates include patients undergoing a major resection between 1 April 2015 and 31 March 2016. 18-month stoma rates include rectal cancer patients undergoing a major resection between 1 April 2014 and 31 March 2017. Adjuvant chemotherapy estimates include patients undergoing major resection for pathological stage III colon cancer between 01 June 2014 and 31 August 2017 in England only.

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 HES. This can be larger than 100 if more patients are reported to the Audit than identified in HES.

#### **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 2014 and 31 August 2017 in England only. These are unadjusted chemotherapy rates.

# **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.

### **Compare trust outcomes**

Funnel plots display trust risk-adjusted outcomes for 90-day mortality, 30-day unplanned readmission, 2-year mortality and, for rectal cancer patients, 18-month stoma rate. 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.

A stoma is considered to be reversed if a HES/PEDW record with relevant code is identified within 18 months of the initial surgical procedure.

See FAQs <a href="https://www.nboca.org.uk/about/fag/">https://www.nboca.org.uk/about/fag/</a> for more details.

# **Data Quality**

All Patients:	Trust	Network	National
Number of patients in Audit	135	1307	31676
Case ascertainment (%)	101	99	95
Data completeness of:			

All Patients:	Trust	Network	National
- Pre-treatment TNM (%)	72	83	80
– Performance status (%)	100	67	86

Patients having major resection:	Trust	Network	National
Number of patients in Audit	81	809	19218
ASA grade 1 (%)	15	16	11
ASA grade 2 (%)	62	52	53
ASA grade 3 (%)	22	21	28
ASA grade 4+ (%)	1	2	3
ASA grade not recorded (%)	N/A	10	5
Data completeness of:			
7 Audit items for risk-adjustment (%)	100	82	86



50 - 80% < 50%

# Management of all patients

All Patients:	Trust	Network	National
Number of patients in Audit	135	1307	31676
Seen by Clinical Nurse Specialist (%)	98	89	87

All patients deemed potentially curative	Trust	Network	National
Number of potentially curative patients	43	281	7416
Undergoing major resection (%)	86	84	86

# Management of patients having major resection

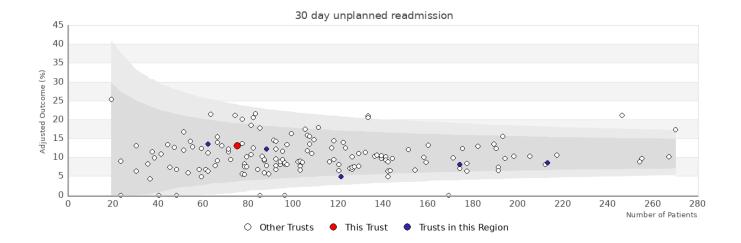
Patients having major resection:	Trust	Network	National
Number of patients in Audit	81	809	19218
Distant metastases (%)	4	9	8
Urgent or emergency surgery (%)	5	13	15
At least 12 lymph nodes excised (%)	85	87	84
Laparoscopic surgery attempted (%)	95	80	69
Risk-adjusted length of stay > 5 days (%)	54	74	62

Patients having major resection for stage III colon cancer:	Trust	Network	National
Number of patients in audit	63	571	11837
Adjuvant chemotherapy (%)	68	60	62

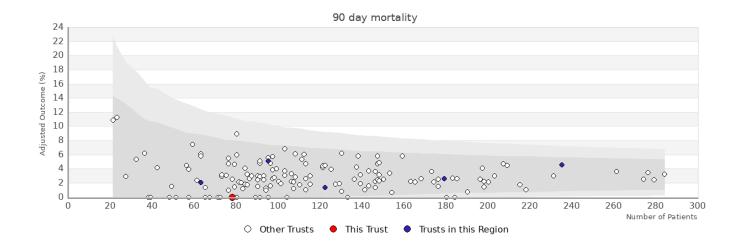
# Rectal cancer patients

Patients having major resection:	Trust	Network	National
Number of patients in Audit	19	209	4588
Neoadjuvant therapy (%)	43	55	33
Circumferential resection margin: Recorded (%)	100	84	90
Circumferential resection margin: Negative (%)	100	72	80
Rectal volume	N/A	N/A	N/A

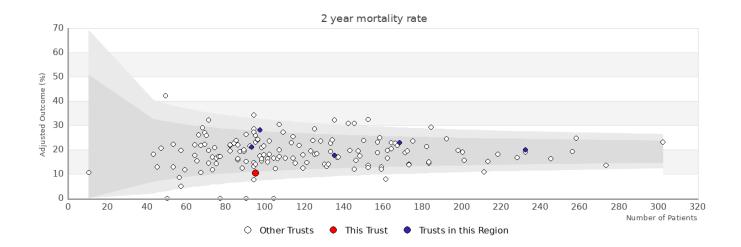
Patients in APER/Hartmanns estimate:	Trust	Network	National
Number of patients in APER/Hartmanns estimate	N/A	N/A	N/A
APER/Hartmanns (%)	N/A	N/A	N/A



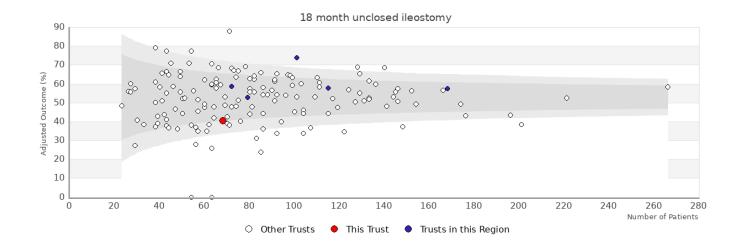
Trust	Number	Adjusted	Observed		
Harrogate and District NHS Foundation Trust	75	13.1%	12%		
Other trusts within the region: West Yorkshire and Harrogate					
Airedale NHS Foundation Trust	62	13.5%	12.9%		
Bradford Teaching Hospitals NHS Foundation Trust	88	12.2%	12.5%		
Calderdale and Huddersfield NHS Foundation Trust	121	5%	5%		
Leeds Teaching Hospitals NHS Trust	213	8.6%	8.9%		
Mid Yorkshire Hospitals NHS Trust	174	8.2%	8.1%		



Trust	Number	Adjusted	Observed		
Harrogate and District NHS Foundation Trust	78	-	-		
Other trusts within the region: West Yorkshire and Harrogate					
Airedale NHS Foundation Trust	63	2%	1.6%		
Bradford Teaching Hospitals NHS Foundation Trust	95	5.1%	4.2%		
Calderdale and Huddersfield NHS Foundation Trust	122	1.3%	0.8%		
Leeds Teaching Hospitals NHS Trust	235	4.6%	5.1%		
Mid Yorkshire Hospitals NHS Trust	179	2.6%	2.8%		



Trust	Number	Adjusted	Observed		
Harrogate and District NHS Foundation Trust	95	10.5%	11.1%		
Other trusts within the region: West Yorkshire and Harrogate					
Airedale NHS Foundation Trust	97	28%	18.5%		
Bradford Teaching Hospitals NHS Foundation Trust	93	21.1%	22.8%		
Calderdale and Huddersfield NHS Foundation Trust	135	17.5%	16%		
Leeds Teaching Hospitals NHS Trust	232	20%	20.9%		
Mid Yorkshire Hospitals NHS Trust	168	22.9%	17.3%		



Trust	Number	Adjusted	Observed
Harrogate and District NHS Foundation Trust	68	40.5%	39.7%
Other trusts within the region: West Yorkshire and Harrogate			
Airedale NHS Foundation Trust	72	58.6%	52.8%
Bradford Teaching Hospitals NHS Foundation Trust	79	53%	53.2%
Calderdale and Huddersfield NHS Foundation Trust	101	74%	75.3%
Leeds Teaching Hospitals NHS Trust	168	57.6%	60.1%
Mid Yorkshire Hospitals NHS Trust	115	57.8%	54.8%