

## Western Sussex Hospitals NHS Foundation Trust - St. Richard's Hospital

Surrey and Sussex A14

The Western Sussex Hospitals NHS Foundation Trust- St. Richard's Hospital incorporates St Richard's Hospital in Chichester <http://www.westernsussexhospitals.nhs.uk/>  
<<http://www.westernsussexhospitals.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 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 <https://www.nboca.org.uk/about/faq/>](https://www.nboca.org.uk/about/faq/) for more details.

## Data Quality

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All Patients:	Trust	Network	National
Number of patients in Audit	173	1889	31676
Case ascertainment (%)	104	106	95
Data completeness of:			

<b>All Patients:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
– Pre-treatment TNM (%)	82	84	80
– Performance status (%)	100	90	86

<b>Patients having major resection:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in Audit	125	1128	19218
ASA grade 1 (%)	11	10	11
ASA grade 2 (%)	43	57	53
ASA grade 3 (%)	40	28	28
ASA grade 4+ (%)	6	4	3
ASA grade not recorded (%)	N/A	1	5
Data completeness of:			
7 Audit items for risk-adjustment (%)	100	91	86

### Key:

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

## Management of all patients

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<b>All Patients:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in Audit	173	1889	31676
Seen by Clinical Nurse Specialist (%)	32	73	87

<b>All patients deemed potentially curative</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of potentially curative patients	50	503	7416
Undergoing major resection (%)	94	86	86

## Management of patients having major resection

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<b>Patients having major resection:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in Audit	125	1128	19218
Distant metastases (%)	6	7	8
Urgent or emergency surgery (%)	18	24	15
At least 12 lymph nodes excised (%)	87	86	84
Laparoscopic surgery attempted (%)	85	73	69
Risk-adjusted length of stay > 5 days (%)	54	61	62

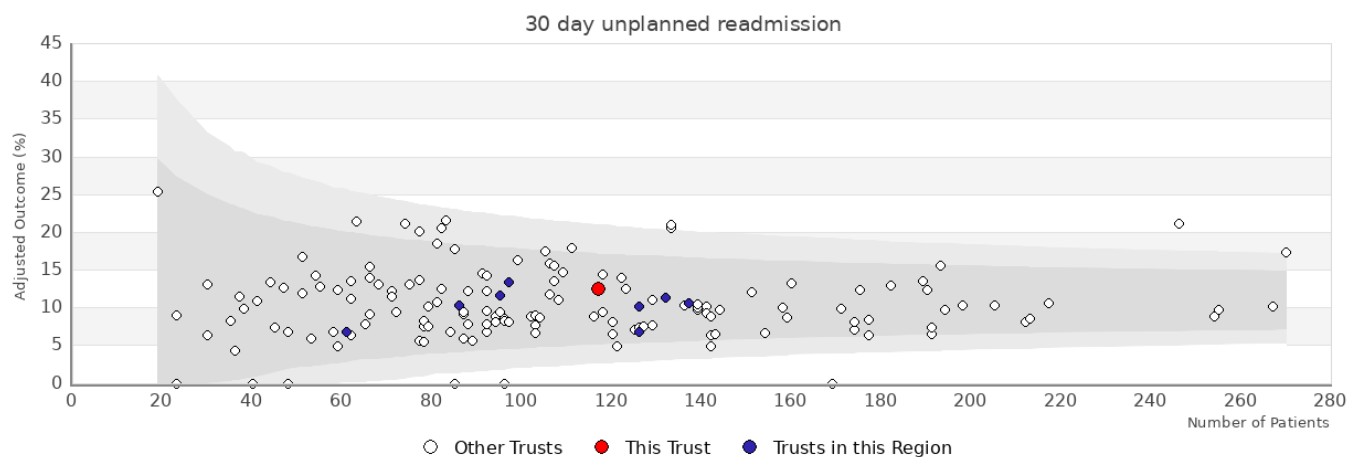
<b>Patients having major resection for stage III colon cancer:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in audit	118	786	11837
Adjuvant chemotherapy (%)	42	56	62

## Rectal cancer patients

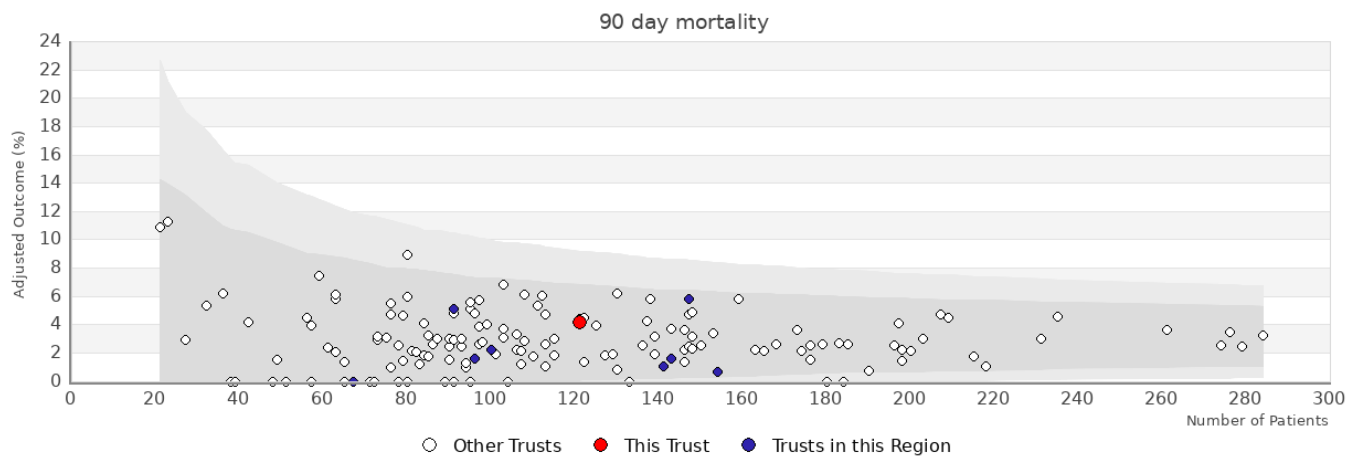
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<b>Patients having major resection:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in Audit	30	238	4588
Neoadjuvant therapy (%)	21	22	33
Circumferential resection margin: Recorded (%)	97	84	90
Circumferential resection margin: Negative (%)	97	77	80
Rectal volume	N/A	N/A	N/A

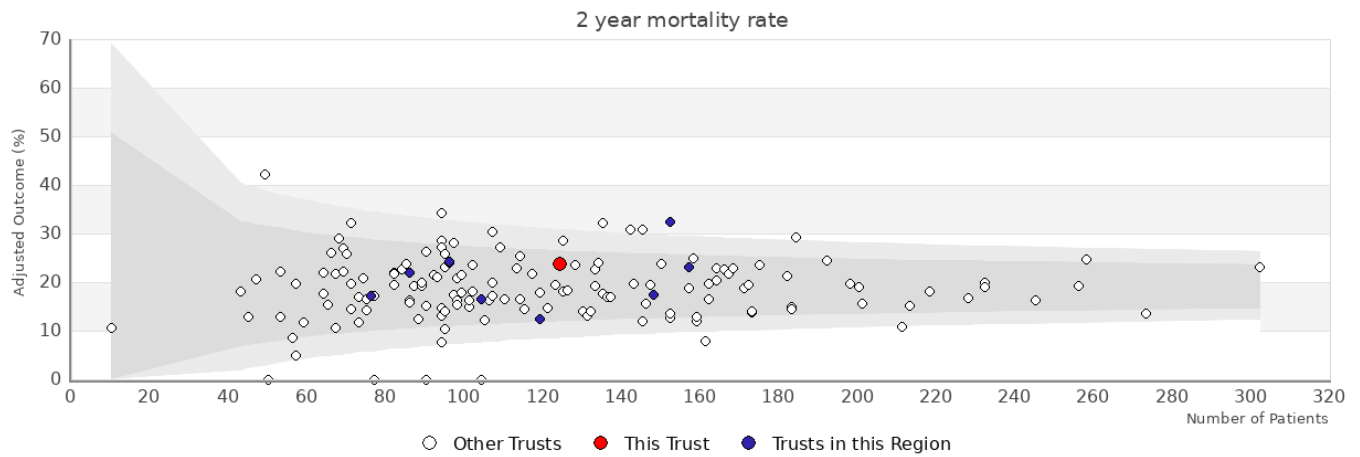
<b>Patients in APER/Hartmanns estimate:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in APER/Hartmanns estimate	N/A	N/A	N/A
APER/Hartmanns (%)	N/A	N/A	N/A



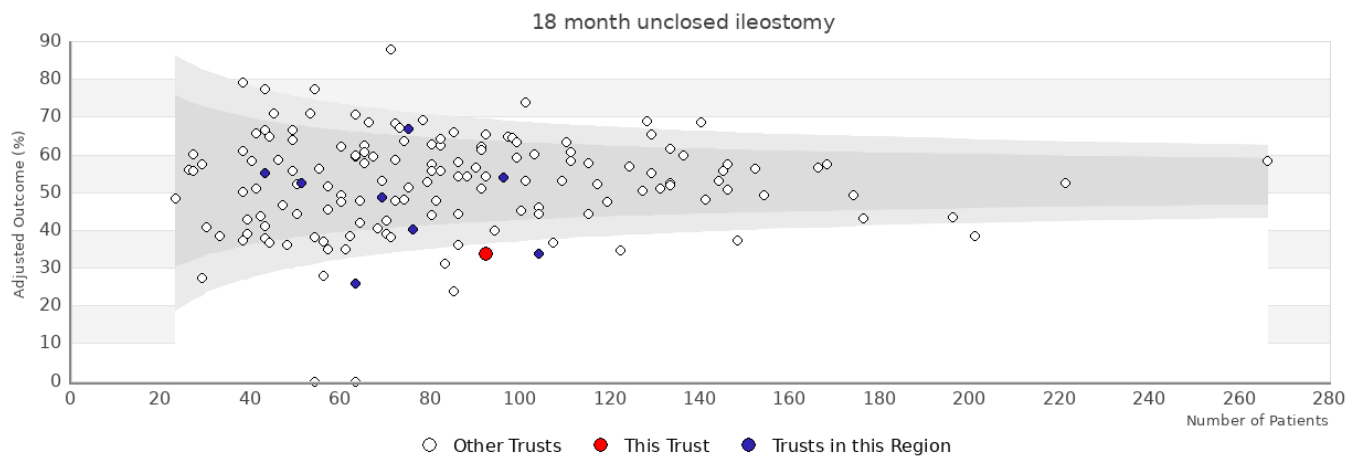
Trust	Number	Adjusted	Observed
Western Sussex Hospitals NHS Foundation Trust - St. Richard's Hospital	117	12.6%	12%
Other trusts within the region: Surrey and Sussex			
Ashford and St Peter's Hospitals NHS Foundation Trust	95	11.7%	11.6%
Brighton and Sussex University Hospitals NHS Trust	126	6.9%	6.4%
East Sussex Healthcare NHS Trust	126	10.2%	9.5%
Frimley Health NHS Foundation Trust - Frimley Park Hospital	132	11.3%	11.4%
Frimley Health NHS Foundation Trust - Heatherwood and Wexham Park Hospitals	97	13.3%	12.4%
Royal Surrey County Hospital NHS Foundation Trust	61	6.8%	6.6%
Surrey and Sussex Healthcare NHS Trust	137	10.7%	10.2%
Western Sussex Hospitals NHS Foundation Trust - Worthing Hospital	86	10.4%	10.5%



Trust	Number	Adjusted	Observed
Western Sussex Hospitals NHS Foundation Trust - St. Richard's Hospital	121	4.2%	6.6%
Other trusts within the region: Surrey and Sussex			
Ashford and St Peter's Hospitals NHS Foundation Trust	96	1.6%	2.1%
Brighton and Sussex University Hospitals NHS Trust	143	1.6%	1.4%
East Sussex Healthcare NHS Trust	154	0.7%	0.7%
Frimley Health NHS Foundation Trust - Frimley Park Hospital	141	1%	0.7%
Frimley Health NHS Foundation Trust - Heatherwood and Wexham Park Hospitals	100	2.2%	2%
Surrey and Sussex Healthcare NHS Trust	147	5.8%	6.1%
Western Sussex Hospitals NHS Foundation Trust - Worthing Hospital	91	5.1%	5.5%



Trust	Number	Adjusted	Observed
Western Sussex Hospitals NHS Foundation Trust - St. Richard's Hospital	124	23.7%	26.5%
Other trusts within the region: Surrey and Sussex			
Ashford and St Peter's Hospitals NHS Foundation Trust	76	17.3%	17%
Brighton and Sussex University Hospitals NHS Trust	152	32.4%	27.2%
East Sussex Healthcare NHS Trust	148	17.5%	18.4%
Frimley Health NHS Foundation Trust - Frimley Park Hospital	119	12.5%	11.5%
Frimley Health NHS Foundation Trust - Heatherwood and Wexham Park Hospitals	96	24.3%	17.3%
Royal Surrey County Hospital NHS Foundation Trust	86	22%	17.5%
Surrey and Sussex Healthcare NHS Trust	157	23.1%	20.1%
Western Sussex Hospitals NHS Foundation Trust - Worthing Hospital	104	16.4%	14.6%



Trust	Number	Adjusted	Observed
Western Sussex Hospitals NHS Foundation Trust - St. Richard's Hospital	92	33.9%	34.8%
Other trusts within the region: Surrey and Sussex			
Ashford and St Peter's Hospitals NHS Foundation Trust	43	55.2%	55.8%
Brighton and Sussex University Hospitals NHS Trust	75	66.8%	66.7%
East Sussex Healthcare NHS Trust	96	54.1%	54.2%
Frimley Health NHS Foundation Trust - Frimley Park Hospital	104	33.9%	32.7%
Frimley Health NHS Foundation Trust - Heatherwood and Wexham Park Hospitals	69	48.7%	46.4%
Royal Surrey County Hospital NHS Foundation Trust	63	25.8%	25.4%
Surrey and Sussex Healthcare NHS Trust	76	40.1%	39.5%
Western Sussex Hospitals NHS Foundation Trust - Worthing Hospital	51	52.7%	54.9%