

## Yeovil District Hospital NHS Foundation Trust

Somerset, Wiltshire, Avon & Gloucestershire A11

The Yeovil District Hospital NHS Foundation Trust incorporates Yeovil District Hospital <http://www.yeovilhospital.co.uk/>  
<<http://www.yeovilhospital.co.uk/>>

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## Patient inclusion and data sources

The majority of these results are for patients in England and Wales diagnosed with bowel cancer 1 Apr 2016 – 31 Mar 2017. The exceptions are for 2-year mortality and 18-month stoma rate. Two-year mortality estimates include patients undergoing a major resection between 1 April 2014 and 31 March 2015. 18-month stoma rates include rectal cancer patients undergoing a major resection between 1 April 2013 and 31 March 2016.

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. In addition, the audit linked to the National Emergency Laparotomy Audit (NELA) for the first time this year. This provides information on emergency bowel cancer operations.

## Data Quality

### Data completeness

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

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

### **Data completeness**

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

### **7 audit items for risk-adjustment**

The per cent of patients with complete data items on all of age, sex, ASA grade, pathological T-stage, pathological N-stage, distant metastases and site of cancer.

### **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**

### **No major resection: too little cancer**

Those undergoing a local resection of polypectomy.

### **No major resection: too much cancer**

No excision and reason for no treatment includes advanced stage cancer OR no excision and non-curative intent and metastatic disease.

### **No major resection: too frail**

not in too much cancer group AND no excision and reason for no treatment includes significant co-morbidity OR no excision and performance status 3 or 4.

### **No major resection: unknown/other reason:**

no excision and does not meet any of the above criteria.

## **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.

## 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: Present (%)

% 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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<b>All Patients:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in Audit	145	1709	30541
Case ascertainment (%)	115	104	93
Data completeness of:			
– Pre-treatment TNM (%)	79	86	78
– Performance status (%)	97	96	85

<b>Patients having major resection:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Number of patients in Audit	73	1081	19183
ASA grade 1 (%)	8	10	12
ASA grade 2 (%)	55	59	52
ASA grade 3 (%)	32	27	27
ASA grade 4+ (%)	N/A	1	2
ASA grade not recorded (%)	5	2	7
Data completeness of:			
7 Audit items for risk-adjustment (%)	70	91	83

**Key:**

## 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	145	1709	30424
Seen by Clinical Nurse Specialist (%)	94	95	93

## 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	73	1081	19222
Distant metastases (%)	7	6	8
Urgent or emergency surgery (%)	22	14	17
At least 12 lymph nodes excised (%)	93	93	87
Laparoscopic surgery attempted (%)	73	77	66

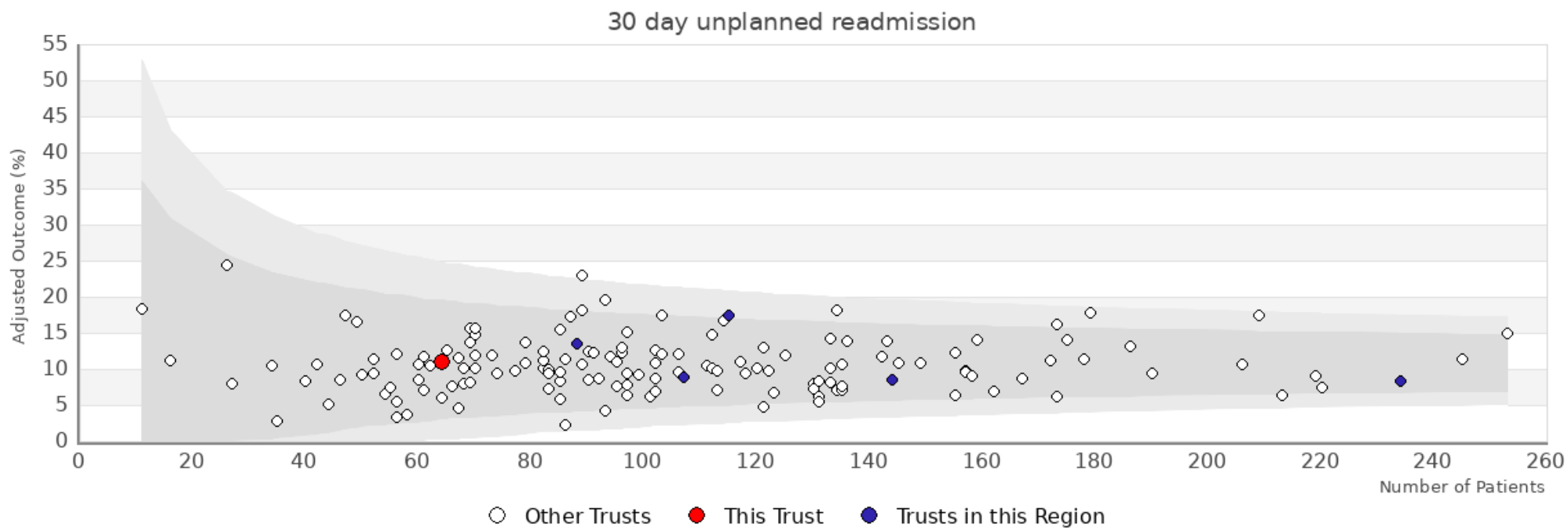
<b>Patients having major resection:</b>	<b>Trust</b>	<b>Network</b>	<b>National</b>
Risk-adjusted length of stay > 5 days (%)	69	52	64

## 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	16	272	4503
Neoadjuvant therapy (%)	31	31	36
Circumferential resection margin: Present (%)	44	85	84
Circumferential resection margin: Negative (%)	31	80	77
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

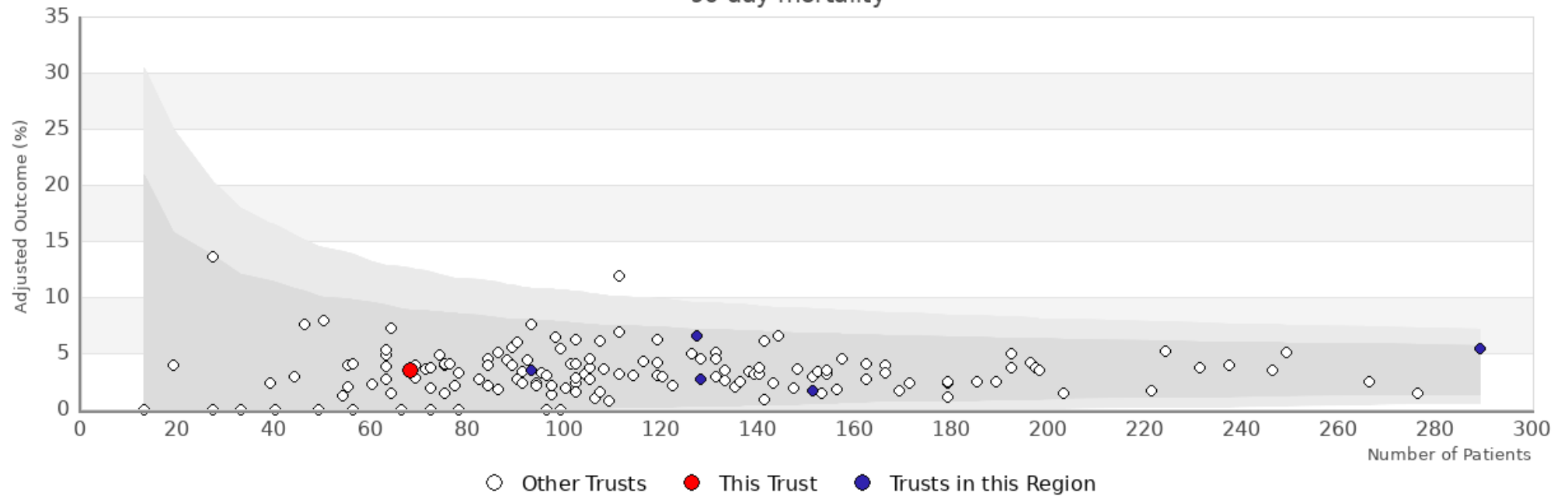


Trust	Number	Adjusted	Observed
Yeovil District Hospital NHS Foundation Trust	64	11.1%	10.9%
Other trusts within the region: Somerset, Wiltshire, Avon & Gloucestershire			
Gloucestershire Hospitals NHS Foundation Trust	234	8.3%	8.1%
North Bristol NHS Trust	115	17.5%	18.3%

Trust	Number	Adjusted	Observed
Royal United Hospitals Bath NHS Foundation Trust	144	8.5%	8.3%
Salisbury NHS Foundation Trust	88	13.6%	13.6%
University Hospitals Bristol and Weston NHS Foundation Trust	107	8.9%	9.4%



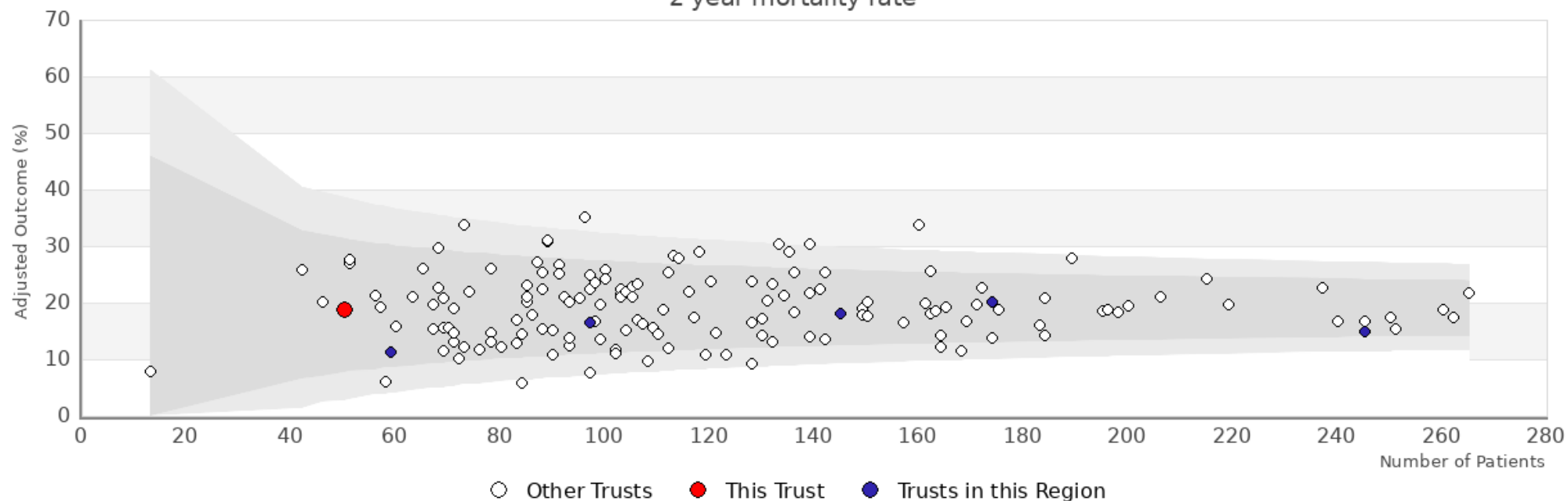
### 90 day mortality



Trust	Number	Adjusted	Observed
Yeovil District Hospital NHS Foundation Trust	68	3.5%	2.9%
Other trusts within the region: Somerset, Wiltshire, Avon & Gloucestershire			
Gloucestershire Hospitals NHS Foundation Trust	289	5.4%	4.2%
North Bristol NHS Trust	128	2.7%	2.3%

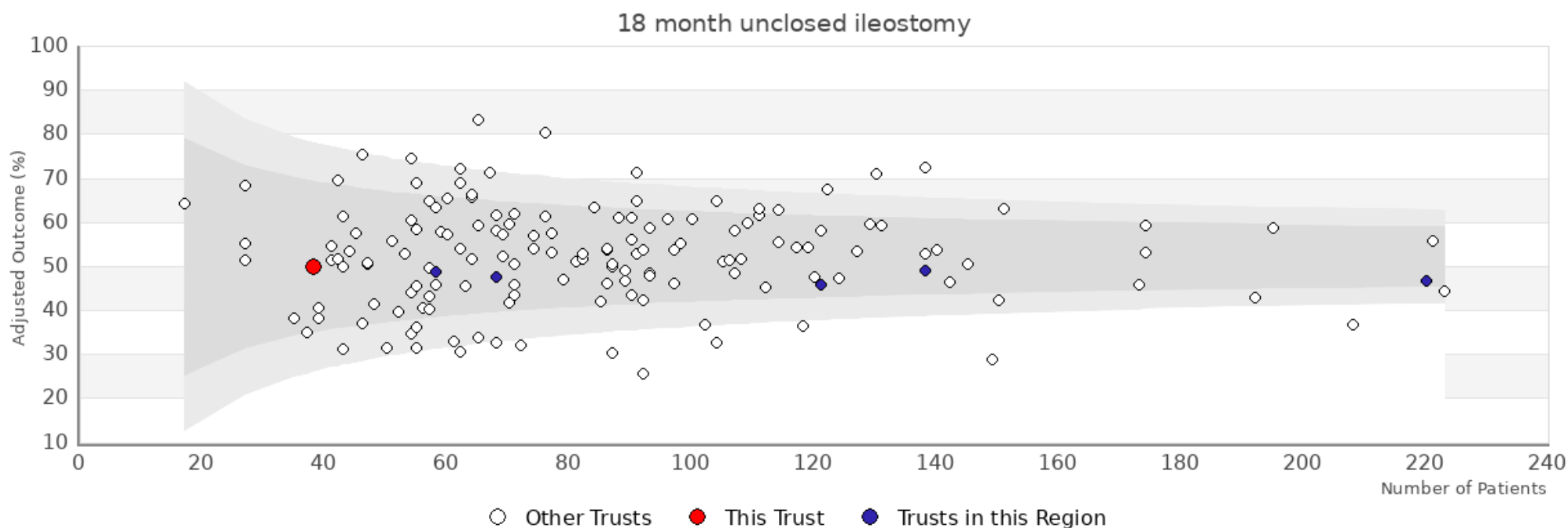
Trust	Number	Adjusted	Observed
Royal United Hospitals Bath NHS Foundation Trust	151	1.6%	1.3%
Salisbury NHS Foundation Trust	93	3.5%	2.2%
University Hospitals Bristol and Weston NHS Foundation Trust	127	6.6%	4.7%

2 year mortality rate



Trust	Number	Adjusted	Observed
Yeovil District Hospital NHS Foundation Trust	50	18.8%	24.1%
Other trusts within the region: Somerset, Wiltshire, Avon & Gloucestershire			
Gloucestershire Hospitals NHS Foundation Trust	245	14.8%	15.4%
North Bristol NHS Trust	145	18.2%	14.9%

Trust	Number	Adjusted	Observed
Royal United Hospitals Bath NHS Foundation Trust	174	20.2%	17.2%
Salisbury NHS Foundation Trust	59	11.4%	12.7%
University Hospitals Bristol and Weston NHS Foundation Trust	97	16.4%	16.6%



Trust	Number	Adjusted	Observed
Yeovil District Hospital NHS Foundation Trust	38	49.8%	50%
Other trusts within the region: Somerset, Wiltshire, Avon & Gloucestershire			
Gloucestershire Hospitals NHS Foundation Trust	220	46.6%	47.3%
North Bristol NHS Trust	121	45.8%	47.1%

Trust	Number	Adjusted	Observed
Royal United Hospitals Bath NHS Foundation Trust	138	49.1%	47.8%
Salisbury NHS Foundation Trust	58	48.7%	46.6%
University Hospitals Bristol and Weston NHS Foundation Trust	68	47.6%	48.5%