

The Royal Marsden NHS Foundation Trust

RM Partners A17

The Royal Marsden NHS Foundation Trust incorporates The Royal Marsden Hospital in London <https://www.royalmarsden.nhs.uk/>
<<https://www.royalmarsden.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 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

All Patients:	Trust	Network	National
Number of patients in Audit	N/A	1390	30541
Case ascertainment (%)	N/A	77	93
Data completeness of:			
– Pre-treatment TNM (%)	N/A	83	78
– Performance status (%)	N/A	89	85

Patients having major resection:	Trust	Network	National
Number of patients in Audit	40	868	19183
ASA grade 1 (%)	3	12	12
ASA grade 2 (%)	40	55	52
ASA grade 3 (%)	38	27	27
ASA grade 4+ (%)	N/A	3	2
ASA grade not recorded (%)	20	3	7
Data completeness of:			
7 Audit items for risk-adjustment (%)	65	90	83

Key:

Management of all patients

All Patients:	Trust	Network	National
Number of patients in Audit	N/A	1390	30424
Seen by Clinical Nurse Specialist (%)	N/A	94	93

Management of patients having major resection

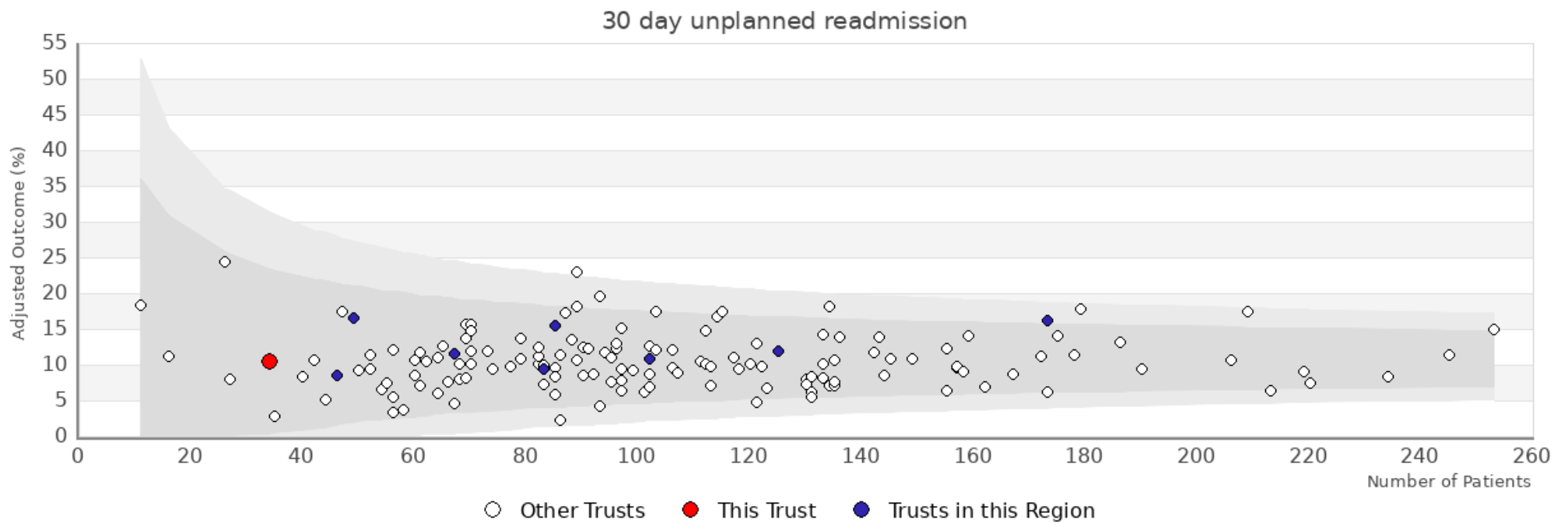
Patients having major resection:	Trust	Network	National
Number of patients in Audit	40	868	19222
Distant metastases (%)	17	8	8
Urgent or emergency surgery (%)	N/A	14	17
At least 12 lymph nodes excised (%)	89	90	87
Laparoscopic surgery attempted (%)	35	64	66

Patients having major resection:	Trust	Network	National
Risk-adjusted length of stay > 5 days (%)	94	72	64

Rectal cancer patients

Patients having major resection:	Trust	Network	National
Number of patients in Audit	20	202	4503
Neoadjuvant therapy (%)	72	35	36
Circumferential resection margin: Present (%)	100	97	84
Circumferential resection margin: Negative (%)	90	91	77
Rectal volume	N/A	N/A	N/A

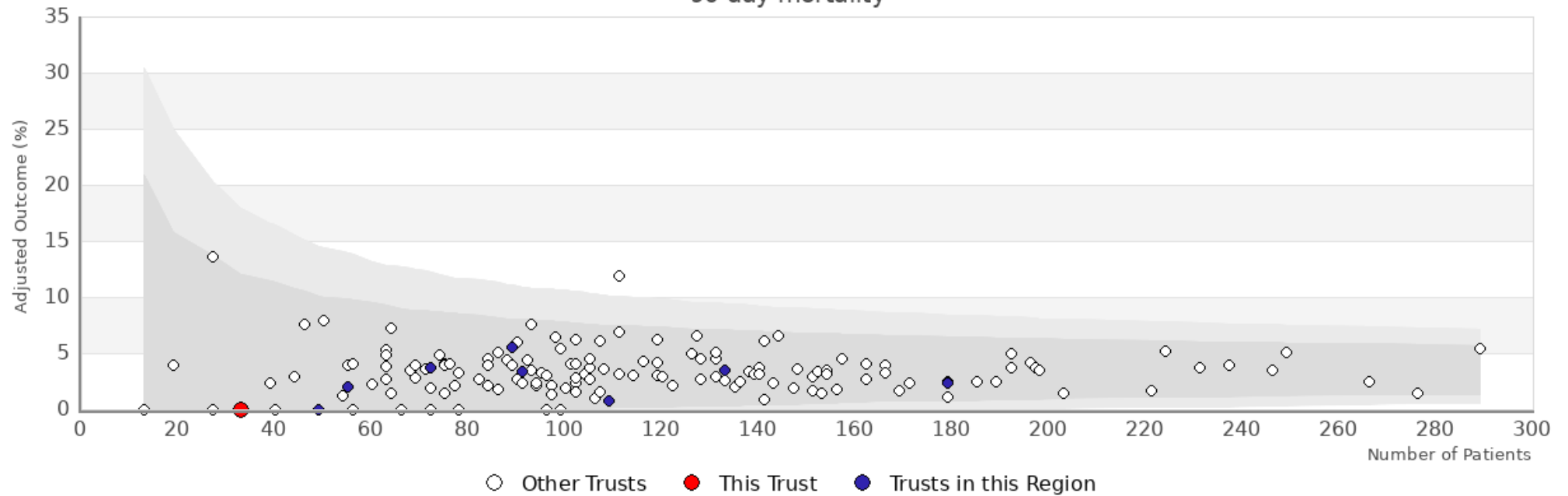
Patients in APER/Hartmanns estimate:	Trust	Network	National
Number of patients in APER/Hartmanns estimate	N/A	N/A	N/A
APER/Hartmanns (%)	N/A	N/A	N/A



Trust	Number	Adjusted	Observed
The Royal Marsden NHS Foundation Trust	34	10.4%	11.8%
Other trusts within the region: RM Partners			
Chelsea and Westminster Hospital NHS Foundation Trust	85	15.5%	15.3%
Croydon Health Services NHS Trust	46	8.5%	8.7%

Trust	Number	Adjusted	Observed
Epsom and St Helier University Hospitals NHS Trust	102	10.8%	10.8%
Imperial College Healthcare NHS Trust	125	12%	12%
Kingston Hospital NHS Foundation Trust	83	9.4%	8.4%
London North West Hospitals NHS Trust	173	16.2%	16.8%
St George's Healthcare NHS Trust	49	16.5%	16.3%
The Hillingdon Hospitals NHS Foundation Trust	67	11.6%	11.9%

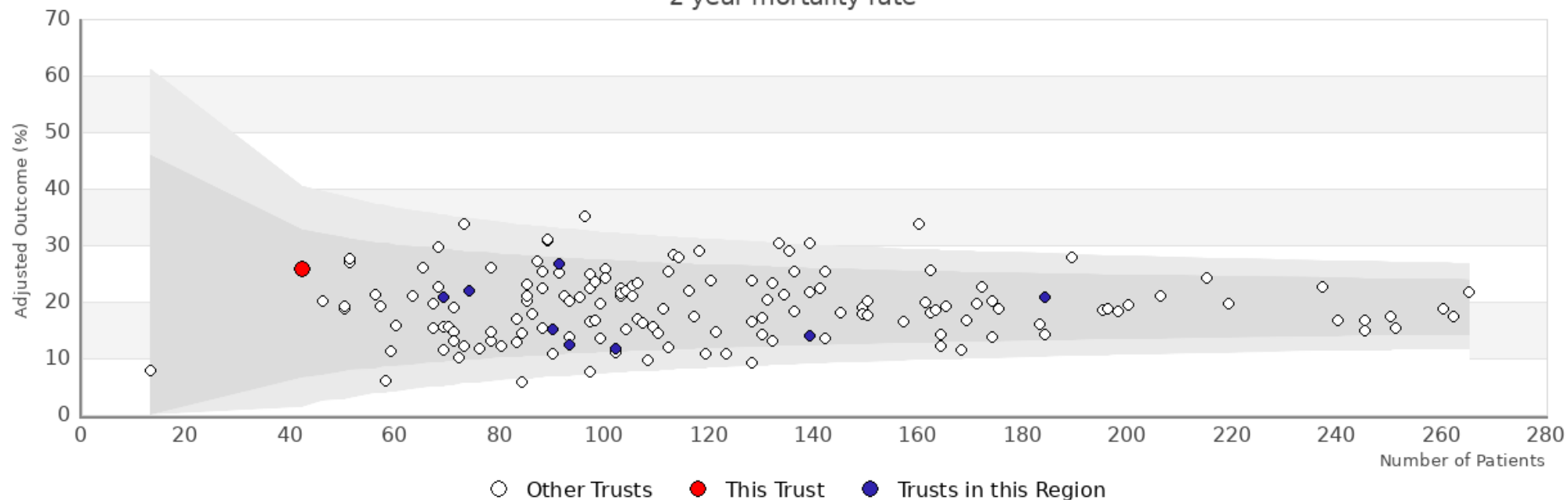
90 day mortality



Trust	Number	Adjusted	Observed
The Royal Marsden NHS Foundation Trust	33	-	-
Other trusts within the region: RM Partners			
Chelsea and Westminster Hospital NHS Foundation Trust	91	3.4%	3.3%
Epsom and St Helier University Hospitals NHS Trust	109	0.8%	0.9%

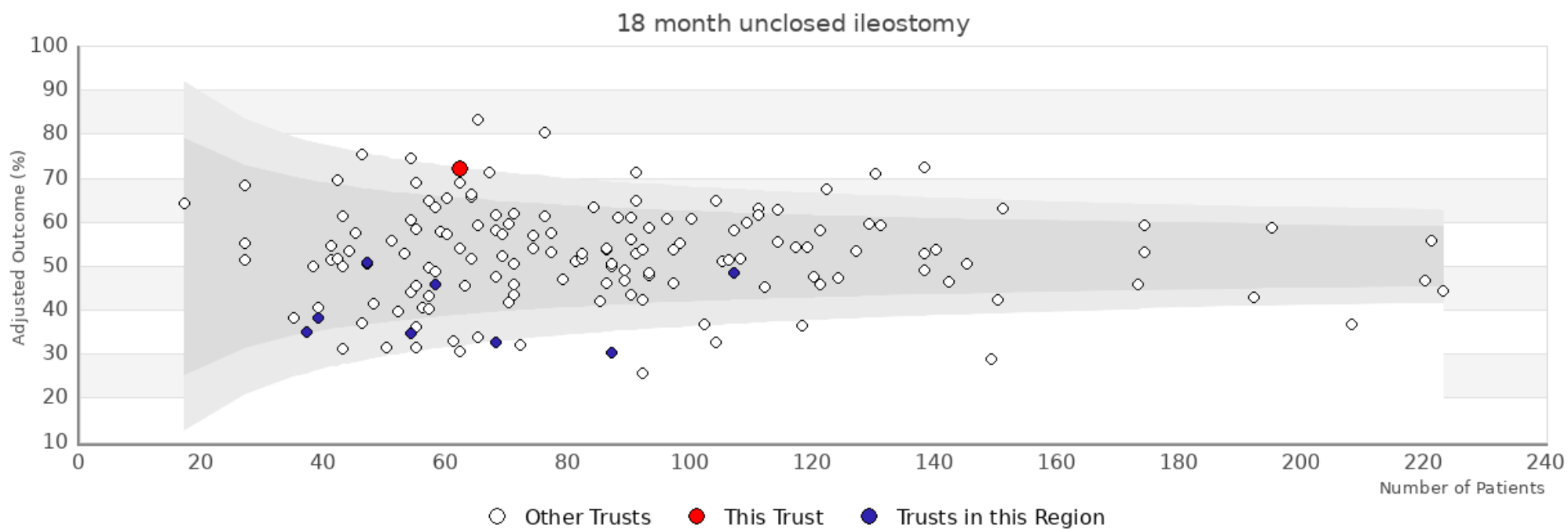
Trust	Number	Adjusted	Observed
Imperial College Healthcare NHS Trust	133	3.4%	3.8%
Kingston Hospital NHS Foundation Trust	89	5.5%	6.7%
London North West Hospitals NHS Trust	179	2.3%	1.7%
St George's Healthcare NHS Trust	55	2%	1.8%
The Hillingdon Hospitals NHS Foundation Trust	72	3.7%	4.2%

2 year mortality rate



Trust	Number	Adjusted	Observed
The Royal Marsden NHS Foundation Trust	42	25.9%	18.8%
Other trusts within the region: RM Partners			
Chelsea and Westminster Hospital NHS Foundation Trust	90	15.2%	19.8%
Croydon Health Services NHS Trust	74	22%	21%

Trust	Number	Adjusted	Observed
Epsom and St Helier University Hospitals NHS Trust	93	12.5%	12.6%
Imperial College Healthcare NHS Trust	139	14.1%	14.2%
Kingston Hospital NHS Foundation Trust	91	26.6%	24.7%
London North West Hospitals NHS Trust	184	20.9%	18.3%
St George's Healthcare NHS Trust	102	11.7%	11.3%
The Hillingdon Hospitals NHS Foundation Trust	69	20.8%	22.7%



Trust	Number	Adjusted	Observed
The Royal Marsden NHS Foundation Trust	62	72.2%	71%
Other trusts within the region: RM Partners			
Chelsea and Westminster Hospital NHS Foundation Trust	58	46%	48.3%
Croydon Health Services NHS Trust	39	38.3%	38.5%

Trust	Number	Adjusted	Observed
Epsom and St Helier University Hospitals NHS Trust	37	34.9%	35.1%
Imperial College Healthcare NHS Trust	87	30.3%	29.9%
Kingston Hospital NHS Foundation Trust	54	34.8%	33.3%
London North West Hospitals NHS Trust	107	48.5%	45.8%
St George's Healthcare NHS Trust	68	32.7%	32.4%
The Hillingdon Hospitals NHS Foundation Trust	47	51%	53.2%